ภาคผนวก ก
ข้อมูลน้ำโคลนและปัจจัยจากสนาม

DAILY MUD REPORT

SUT Central East 1A

DAILY MUD REPORT

Rig Name	AZTEC 7	Date	7-May-07	Fluids Engineer	J. Lee/ Napong VJ Lugman	Depth (M)	576.1
Well Name & No.		Report No.	7	Solids Control	-	MD/TVD	576.1
Field		Formation		Head QTR	Bangkok	Average R.O.P M/hr	10
Block		Warehouse	Sattahib	Drilling Rep.	Mr.John Johnston	Hole Section	6 1/8
Onshore Area	Northern,Thailand			Rig manager	Mr.John Robinson	BHT (°F)	

Drlg ahead		CASING	Size (in)	Depth (M)	MUD VOLUME (bbls)	
Present Activity	Drilling ahead	Conductor	9 5/8	67.5	Hole Volume	76
Bit Size(inch)	6 1/8	Surface casing	7	563.2	Active pits	293
Drill Pipe Size(inch)	3 1/2	Production	4 1/2		Reserve pits	
Drill Collar(inch)	4 1/2				Total Circulating Volume	369
HWDP						

CIRCULATION DATA		ANNULAR VELOCITY (Feet / Minute)		
Pump Size (inch)	6.0	Opposite DP in OH	323	Feet /minute
Pump Make	2 x Triplexd pump	Opposite DC in OH	472	Feet /minute
Bbls/Stroke (95% eff.)	0.069	Opposite DP in Cased Hole	277	Feet /minute
Stroke/Minute	99	Circulating Pressure	586	psi
Bbls/Minute	8	Bottoms Up	8.18	minutes
GPM	333	Surface to surface	46.55	minutes

MUD TYPE: POTASSIUM SULPHATE POLYMER

Sample From:		Spec	Active pits		
Time Sample Taken	24 hrs		8:30 PM	4:30 AM	
Temperature Sample Taken	deg F		95	96	
Depth	metre		568.20	586	
Weight (ppg)	ppg	8.8-8.8	9.6	9.6	
Mud Gradient	psi/ft		0.499	0.499	
Funnel Viscosity	sec/qt	40-50	45	48	
Plastic Viscosity	cps	ALAP	11	10	
Yield Point	lb/100 sq.ft	15 - 20	13	3	
Gel Strength (10 sec / 10 min)	lb/100 sq.ft		6 / 14	3/6	
API Filtrate (100 psi)	ml	<10	5.2	5.4	
API Filter Cake Thickness	32nd in.		1	1	
pH		8.5 - 9.5	8.5	9.0	
Pm	ml		1.0	1.00	
Pf/Mf	ml/ml		0.05 / 3.00	0.05 / 2.32	
Cl	mg/L		750	750	
Hardness	mg/L		910	880	
Water Content	% by Volume				
Solid Content	% by Volume				
Sand content	% by Volume				
K2SO4	% by Volume	5			
Solid Analysis					
High Gravity Solids	% by Volume				
High Gravity Solids	ppb				
Low Gravity Solids	% by Volume	<5			
Low Gravity Solids	ppb				
MBT	mc./ml mud				
CEC (API Equivalent)	ppb Bentonite				

SOLIDS CONTROL EQUIPMENT INFORMATION					VG METER READINGS at 120 deg F			
	Size			Hours Per Tour	Time			
Centrifuge 1	None				600 RPM	35	23	
Shaker #1	20	40	mesh	4	300 RPM	24	13	
Shaker #2	20	40	mesh	4	200 RPM	20	10	
Desander	N/A				100 RPM	15	16	
Desilter	N/A				6 RPM	8	8	
					3 RPM	7	6	

BIT DATA	
Made	Varel CHIC MSC
Type	IADC 117
Jets	16 x 3

Volume Addition			Volume Losses		
Mud		bbl	Shakers		bbl
Water	60.00	bbl	Desander/Desilter		bbl
Base Oil		bbl	Down Hole		bbl
Chemicals	5.00	bbl	Dumped		bbl
Barite		bbl	Tripping		bbl
Total	65.00	bbl	Total	0	bbl

Cost	
Daily Mud Chemicals Cost	$1,546.50
Previous Mud Chemicals Cost	$13,688.00
Cumulative Mud Chemicals Cost	$15,235.50

Operation Comment

N/U BOP. Drill out shoe, cut new formation

Drilling Fluids Comment

Treat mud for cement contamination, pH control and Ca2+ ions from cement

Mud Report Number 7

SUT Central East 1A

Inventory

Chemicals Stock On Board

Product	UNIT	Stock	Received	Used	Backload	Balance	U/P	COST
CAUSTIC SODA	25 kg/sx	10				10	21.00	0.00
DRILL BAR	25 kg/sx	200				200	3.00	0.00
DRILL BAR	metric ton	0				0	105.00	0.00
DRILL GEL(MAC GEL)*	25 kg/sx	47				47	6.00	0.00
ENCAP-SUL-8	25 kg/sx	108				108	88.00	0.00
HYDRO PAC R	25 kg/sx	38		2		36	88.00	176.00
HYDRO PAC UL	25 kg/sx	123		4		119	88.00	352.00
HYDRO-STAR NF	25 kg/sx	0				0	35.00	0.00
KMC CIDE	18 kg/dr	28				28	95.00	0.00
KMC PIPELAX	190 kg/dr	0				0		0.00
OX-SCAV	18 kg/dr	15				15	55.00	0.00
OPTA CARB 20T	25 kg/sx	451		25		426	8.50	212.50
OPTA CARB 40T	25 kg/sx	185		16		169	8.50	136.00
OPTA CARB 250T (CaCo3 Coars	25 kg/sx	33		10		23	9.50	95.00
SODA ASH	25 kg/sx	24		5		19	13.00	65.00
XC-EED	25 kg/sx	39				39	209.00	0.00
Sodium Acid Phyrophospate*	25 kg/sx	59				59	29.50	0.00
POTASSIUM SULPHATE	50 kg/sx	132		10		122	51.00	510.00
CLAY BORE(POWDER)**	25 kg/dr	25		1		24		0.00

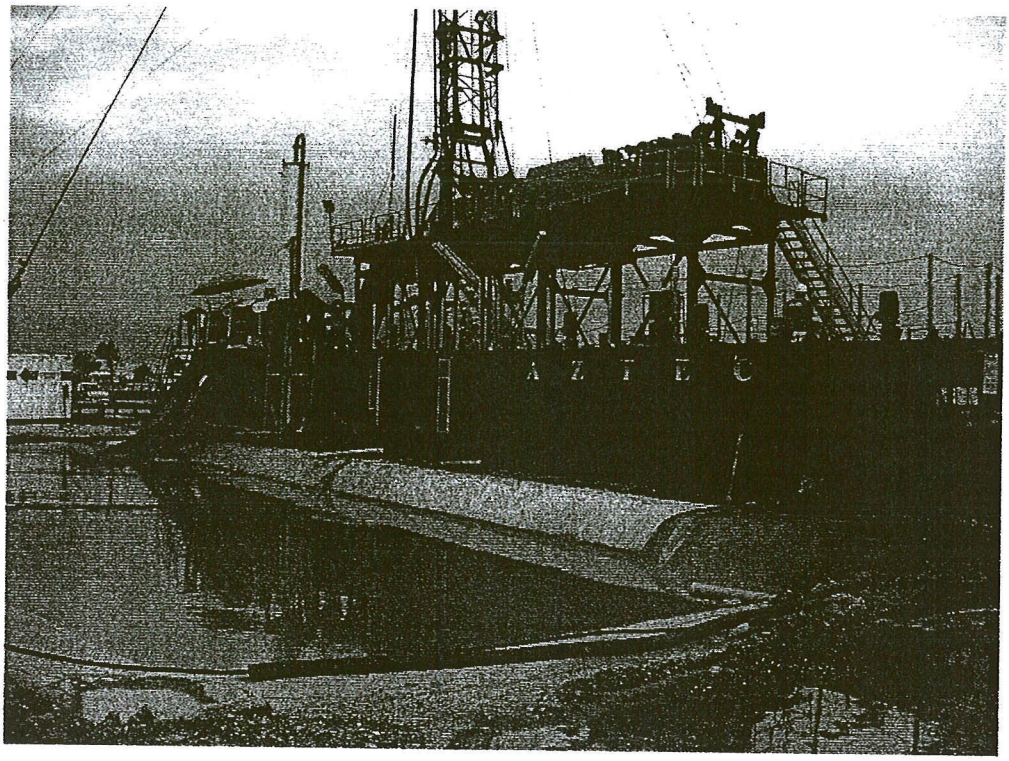
Daily Mud Chemicals Cost	$	1,546.50
Previous Mud Chemicals Cost	$	13,689.00
Cummulative Mud Chemicals Cost	$	15,235.50

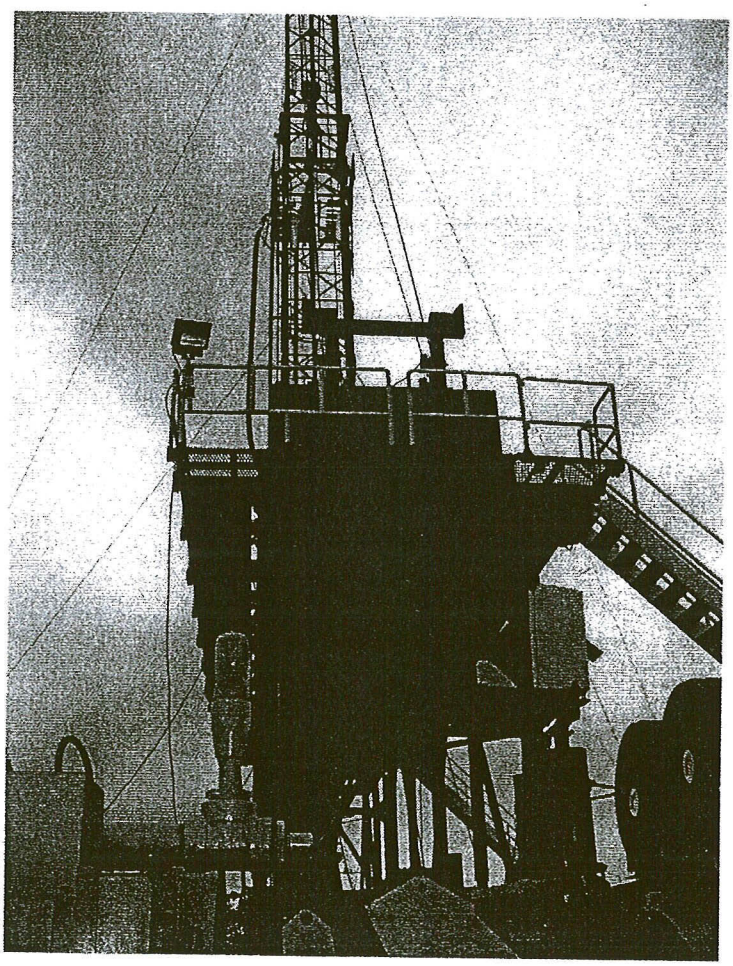
Pit Volume

Pits	Vol (bbl)	MW (ppg)	Type
Premix Tank			
Pit #1	30	9.00	Reserve
Pit #2	40	9.00	Reserve
Pit #3	62	9.60	Active
Pit #4	83	9.60	Active
Pit #5	42	9.60	Active

SBM Credited Forward from Last Well

Pits	Vol (bbl)	MW (ppg)	Type
Pit #6	42	9.60	Active
Sandtraps	64	9.60	Active
Trip tanks			


AZTEC



SUT Central Plain 1A

Rig Name	Branch Name	Start Depth (mKB)	Company Representatives	Casing		DATE: 31/Mar/2007
	Original Hole	20.00	Company Man	OD (in)	Depth (mKB)	RPT #: 4
Rig	Phase		Sarit R.	9 5/8	953.00	
GW80	8"3/4		RongrithP.	Next : 7" csg @ +/- 2700m		Midnight Depth (mKB) 2,891.00

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
2R	2,198.23	2,691.00	492.77	10.00	49.3	1,733.00	32.50	53.3

Bit

Bit and Core Head Inventory	Bit Dull
8 3/4in, HC605, 7206078	1-0-CT-C-X-I-ER-TD

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
15	90	2,162	2,265.0	14

Drillstring Assembly

Bit Run	BHA
2R	Hughes HC605, 8 11/16" Turbo back, 7" SperryDrill Lobe 7/8 - 6.0 sg, 7 1/4" Stab, 8 1/2" Float Sub, 2 x 8 1/2" NM Pony, 8 1/2" NM HOC, 10 x 5" HWDP, 8 1/2" Jar, 4 x 5" HWDP (total 157.51 m)

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method
2,383.50	47.17	242.08	MWD
2,412.30	46.27	241.75	MWD
2,441.10	44.83	241.37	MWD
2,469.80	43.39	241.16	MWD
2,498.50	42.01	241.08	MWD
2,527.30	40.74	241.00	MWD
2,556.10	39.91	241.10	MWD
2,584.90	38.91	241.10	MWD
2,613.60	38.04	241.10	MWD
2,642.30	36.49	241.60	MWD
2,671.10	34.36	242.40	MWD

Mud

Mud type: Versaclean OBM

Mud Weight (sg)	ECD	Mud T (?C)
1.20	1.2	80

Initial (m?)	Added (m?)	Final (m?)
197.80	12.10	190.10

Form.Gain (m?)	Form.Los. (m?)	Surf.Los. (m?)
	1.90	17.70

YP (lbf/100ft?)	YS (lb0/100ft?)	PV	Marsh
14	18	16	54

pH	Pm	Pf (mL/mL)	Mf (mL/mL)

Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)

KCl (mg/L)	Sand (%)	Solids (Co...	CEC (kg/m3)
	0.3	12.8	

Filt. (mL/3...	FC (mm)	HPHT Filt ...	HTHP FC ...
		2.0	2.0

Water (%)	Oil (%)	OW	ES (V)
17.0	69.0	80/20	696.0

LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)
4.8	8.0	2.2	32,000

Mud Products

Trade Name	Units	On Loc	Used
ECOTROL RD	sx	23.0	1.0
ESCAID 110	m3	45.56	7.0
Barite	sx	37.0	9.0
Lime	sx	130.0	20.0

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	09:00	Continue drill 8-3/4" hole from 2198 to TD (2691 mMD/ 2028.6 mVD). BHCT 91.4 degC @ 2671.1 mMD/ 2012.9 mVD. Drilling parameter : Sliding: WOB= 10 klbs, 2200 lpm Rotate: WOB= 8 - 15 klbs, 2200 lpm, RPM= 90 , Torque= 7 - 15 kft-lbs. Rotate : 391.8 m/ 4.6 hrs - Avg. ROP 85.2 m/hr. Slide : 51 m/ 1.04 hrs - Avg. ROP 49 m/hr. Gas peak:2.79% @ 2243.5 m, 1.78% @ 2309.5m, 1.84%@2334.5m, 1.91% @ 2342m, 2.64% @ 2369.5m, 1.66% @ 2382.5m. Background gas: 0.9 %	F1	9.00
09:00	10:00	Including directional survey.	F7	1.00
10:00	12:15	Circulate hole clean (90 RPM, 150 spm), no loss.	F4	2.25
12:15	12:45	Pull wet 4 stands from 2891 to 2571 m. Tight spot at 2607 m - wipe to clear. Flow check - hole static. Pump slug 5 m3 (1.48 SG).	F4	0.50
12:45	18:00	POOH 8-3/4" BHA from 2571 to 938 m (inside 9-5/8" csg shoe). Tight spot @ 2089 and 1653 m - wipe to clear. Flow check - hole static.	F2A	5.25
18:00	19:00	Continue POOH 8-3/4" BHA from 938 to 158 m.	F2B	1.00
19:00	20:00	Handle 8-3/4" BHA - Rack back motor and bit (mud loss during POOH = 1.6 m3, loss rate = 0.23 m3/hr).	F2C	1.00
20:00	20:15	Rig floor clear. Hold pre-job safety meeting. R/U schlumberger.	G6	0.25
20:15	20:30	M/U PEx logging tool - surface test and load radioactive source.	G6	0.25
20:30	21:00	RIH PEx logging tool to 9-5/8" casing shoe.	G6	0.50
21:00	22:15	Log down from 9-5/8" casing shoe to TD (2692.2 mMD wireline depth).	G6	1.25
22:15	00:00	Log up from TD to 9-5/8" casing shoe.	G6	1.75
			Cum Dur ...	24.00

Summary/Remar...

Summary :
Continue drill 8-3/4" section to TD. Circulate hole clean. POOH 8-3/4" BHA. Perform PEx logging.

00:00-06:00 Operations
==========
00:00-00:30 POOH PEx logging tool from 9-5/8" casing shoe to surface. Average hole size = 8.77 ".
00:30-01:00 Unload radio active source and L/D PEx. Mud loss while logging = 0.3 m3.
01:00-01:15 M/U XPT tool and surface test.
01:15-01:30 RIH XPT tool from surface to 9-5/8" csg shoe, test packer -ok.
01:30-02:15 RIH XPT tool from 9-5/8" csg shoe to 2089.5 m (1st p-test point).
02:15-06:00 Perform XPT pressure tests.

-No of observation cards = 5
-Motor gap bearing = 2.6 mm, 30 hr running hour

Operation Summary :
Continue drill 8-3/4" section to TD. Circulate hole clean. POOH 8-3/4" BHA. Perform PEx logging.

00:00-06:00 Operations
==========

Well status at 6:00 am :
POOH XPT logging tool.

Planned Operation :
Run 7" casing and perform cmt job. Run 2-7/8" completion

Accidents:
694.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job Meeting

Personnel

Company	Qty
PTTEP	5
GWDC	86
BJ services	3
Halliburton	5
I-Log	4
MI-Swaco	4
PCS	3
Pro Waste	13
Securicor	4
Schlumberger	8

Day Total	Cum To Date	Mud Total	Mud Cum To Date
61,261.00	346,485.00	6,459.99	53,419.52

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)

Wind Direction (?)	P bar (mbars)	Current Speed (km...	Current Direction (?)

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel	m3		7.8	20.6

SUT Central Plain 1A

Wid Name	Branch Name	Start Depth (mKB)	Company	epresentatives	Casing		DATE:	30/Mar/2007
I	Original Hole	20.00	Company Man		OD (in)	Depth (mKB)	RPT #:	3
			Sarit R.		9 5/8	953.00		
Rig	Phase		RongrithP.		Next : 7" csg @ +/- 2700m		Midnight Depth (mKB)	
GW80	8"3/4						2,198.00	

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
2R	958.00	2,198.23	1,240.23	22.50	55.1	1,240.23	22.50	55.1

Bit

Bit and Core Head Inventory	Bit Dull
8 3/4in, HC605, 7206078	1-0-CT-C-X-I-ER-TD

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
15	90	2,162	2,265.0	10,000

Drillstring Assembly

Bit Run	BHA
2R	Hughes HC605, 8 11/16" Turbo back, 7° SperryDrill Lobe 7/8 - 6.0 sg. 7 1/4" Stab, 6 1/2" Float Sub, 2 x 6 1/2" NM Pony, 6 1/2" NM HOC, 10 x 5" HWDP, 6 1/2" Jar, 4 x 5" HWDP (total 157.51 m)

Survey Data

MD (mKB)	Incl (°)	Azm (°)	Method
1,894.80	46.75	242.95	MWD
1,923.50	46.34	242.77	MWD
1,952.30	45.76	242.63	MWD
1,981.10	45.12	242.55	MWD
2,009.80	44.82	242.31	MWD
2,038.50	46.43	242.25	MWD
2,067.20	46.11	242.22	MWD
2,096.00	45.15	241.85	MWD
2,124.80	44.88	241.57	MWD
2,153.50	45.53	242.11	MWD
2,182.30	46.44	242.58	MWD

Mud

Mud type			
Versaclean OBM			
Mud Weight (sg)	ECD		Mud T (°C)
1.20	1.27		54
Initial (m³)	Added (m³)		Final (m³)
231.30	8.80		197.80
Form.Gain (m³)	Form.Los. (m³)		Surf.Los. (m³)
	11.70		30.80
YP (lbf/100ft²)	YS (lbf/100ft²)	PV	Marsh
17	19	15	55
pH	Pm	Pf (mL/mL)	Mf (mL/mL)
Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)
KCl (mg/L)	Sand (%)	Solids (Co...	CEC (kg/m3)
	0.0	12.8	
Fill. (mL/3...	FC (mm)	HPHT Fil...	HTHP FC ...
		2.0	2.0
Water (%)	Oil (%)	OW	ES (V)
17.5	68.5	80/20	668.0
LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)
4.6	8.2		31,500

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	00:15	Wash down from 914 to tag top plug @ 940 m, meanwhile test MWD (120 spm, 1045 psi) - ok.	FN6A	0.25
00:15	00:45	Take SCR for both pumps. Drill out shoetrack.	F1	0.50
00:45	19:30	Drill 8-3/4" hole from 958 to 1978 m. Encounter partial loss - 5 m3/ 30 min, loss rate = 10 m3/hr. Flow check - no static losses.	F1	18.75
19:30	20:00	Continue drilling from 1978 m to 2054 while monitoring losses and prepare for LCM pills. Encounter partial loss - 3 m3/ 30 min, loss rate = 6 m3/hr.		0.50
20:00	20:45	Work string up/down with 120 spm, no dynamic loss. Meanwhile prepare LCM pill (200 ppb of CaCO3). Pump 8 m3 of LCM.	FN1B	0.75
20:45	21:30	Continue drill 8-3/4" hole from 2054 to 2198 m while keep monitoring loss, no loss. BHCT 79.7 degC @ 2182.3 mMD/ 1857.2 mTVD. Drilling parameter : Sliding - WOB= 10 klbs, 2200 lpm Rotate - WOB = 8 - 15 klbs, 2200 lpm, RPM= 90 , Torque= 7 - 15 kft-lbs. Rotate - 1057.7 m/ 9.03 hrs - Avg. ROP= 117 m/hr. Slide - 182.5 m/ 4.04 hrs - Avg. ROP= 45.2 m/hr. Top of YOM 960 mMD/ 808 mTVD. Top of FTO 1470 mMD/ 1165 mTVD. Top of MainSail 1760 mMD/ 1365 mTVD. Top of UKU-K 1990 mMD/ 1506 mTVD. Gas peak - 3.45% @ 1995.5m, 4.05% @ 2023.6m, 3.35% @ 2052m, 3.47% @ 2081.5m, 3.95% @ 2099m, 4.76% @ 2112.5m, 3.91% @ 2112.8m, Background gas: 0.5-1.5 %	F1	0.75
21:30	00:00	Including directional survey.	F7	2.50

Cum Dur ... 24.00

Summary/Remar...

Summary :
Wash down to top plug. Drill out shoetrack. Drill 8-3/4" section from 958 to 2054 m - encounter partial loss. Spot LCM. Continue drill 8-3/4" section from 2054 to 2198 m.

00:00-06:00 Operations
==========
00:00-06:00 Continue drill 8-3/4" hole from 2198 to 2485 m.

-No of observation cards = 5

Mud Products

Trade Name	Units	On Loc	Used
Bentonite	sx	201.0	
Barite	sx	46.0	8.0
CAL CARB (C)	sx	250.0	130.0
CALCHLORIDE	sx	299.0	
ECOTROL RD	sx	24.0	8.0
CAL CARB (M)	sx	250.0	130.0
KCL	sx	120.0	
NOVATEC F	drum	5.0	1.0
Lime	sx	150.0	25.0
VERSATROL	sx	165.0	
VERSACOAT IC	drum	14.0	1.0
VERSAMOD	drum	5.0	1.0
VERSAGEL HT	sx	128.0	2.0

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel	m3		6.4	28.4

Operation Summary :
Wash down to top plug. Drill out shoetrack. Drill 8-3/4" section from 958 to 2054 m - encounter partial loss. Spot LCM. Continue drill 8-3/4" section from 2054 to 2198 m.

Well status at 6:00 am :
Drill 8-3/4" hole @ 2485 m.

Planned Operation :
Drill 8-3/4" section to TD. Circulate hole clean. POOH 8-3/4" BHA.

Accidents:
693.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills

Personnel

Company	Qty
PTTEP	5
GWDC	86
BJ services	3
Halliburton	5
I-Log	4
MI-Swaco	4
PCS	3
Pro Waste	13
Securicor	4

Day Total	Cum To Date	Mud Total	Mud Cum To Date
58,729.00	285,224.00	8,529.15	46,956.53

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periods (Sec)	Wave Direction	Wind Speed (Knot)

Wind Direction (°)	P bar (mbars)	Current Speed (km...	Current Direction (°)

SUT Central Plain 1A

Id Name	Branch Name	Start Depth (mKB)	Company	Representatives	Casing		DATE:	21/Mar/2007
	Original Hole	20.00		Company Man	OD (in)	Depth (mKB)	RPT #:	4
Rig	Phase		Senit R.		9 5/8	953.00		
GW80	8"3/4		RongrithP.		Next : 7" csg @ +/- 2700m		Midnight Depth (mKB)	2,691.00

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
2R	2,198.23	2,691.00	492.77	10.00	49.3	1,733.00	32.50	53.3

Bit

Bit and Core Head Inventory	Bit Dull
8 3/4in, HC605, 7206078	1-0-CT-C-X-I-ER-TD

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
15	90	2,162	2,265.0	

Drillstring Assembly

Bit Run	BHA
2R	Hughes HC605, 8 11/16" Turbo back, 7" SperryDrill Lobe 7/8 - 6.0 sg, 7 1/4" Stab, 6 1/2" Float Sub, 2 x 6 1/2" NM Pony, 6 1/2" NM HOC, 10 x 5" HWDP, 6 1/2" Jar, 4 x 5" HWDP (total 157.51 m)

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method
2,383.50	47.17	242.08	MWD
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2,441.10	44.83	241.37	MWD
2,469.80	43.39	241.16	MWD
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2,527.30	40.74	241.00	MWD
2,556.10	39.91	241.10	MWD
2,584.90	38.91	241.10	MWD
2,613.60	38.04	241.10	MWD
2,642.30	38.49	241.60	MWD
2,671.10	34.36	242.40	MWD

Mud

Mud type: Versaclean OBM

Mud Weight (sg)	ECD	Mud T (°C)
1.20	1.2	60

Initial (m³)	Added (m³)	Final (m³)
197.60	12.10	190.10

Form.Gain (m³)	Form.Los (m³)	Surf.Los (m³)
	1.90	17.70

YP (lbf/100ft²)	YS (lbf/100ft²)	PV	Mud ...
14	18	16	

pH	Pm	Pf (mL/mL)	Mf (mL/mL)

Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (...

KCl (mg/L)	Sand (%)	Solids (Co...	CEC (kg/m³)
	0.3	12.8	

Fill. (mL/3...	FC (mm)	HPHT Filt	HTHP FC ...
		2.0	

Water (%)	Oil (%)	O/W	ES (V)
17.0	69.0	80/20	698.0

LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)
4.8	8.0	2.2	32,000

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	09:00	Continue drill 8-3/4" hole from 2198 to TD (2691 mMD/ 2028.6 mVD). BHCT 91.4 degC @ 2671.1 mMD/ 2012.9 mVD. Drilling parameter : Sliding: WOB= 10 klbs, 2200 lpm Rotate: WOB= 8 - 15 klbs, 2200 lpm, RPM= 90 , Torque= 7 - 15 kft-lbs. Rotate : 391.8 m/ 4.6 hrs - Avg. ROP 85.2 m/hr. Slide : 51 m/ 1.04 hrs - Avg. ROP 49 m/hr. Gas peak:2.79% @ 2243.5 m, 1.78% @ 2309.5m, 1.84%@2334.5m, 1.91% @ 2342m, 2.64% @ 2389.5m, 1.66% @ 2382.5m. Background gas: 0.9 %	F1	9.00
09:00	10:00	Including directional survey.	F7	1.00
10:00	12:15	Circulate hole clean (90 RPM, 150 spm), no loss.	F4	2.25
12:15	12:45	Pull wet 4 stands from 2691 to 2571 m. Tight spot at 2607 m - wipe to clear. Flow check - hole static. Pump slug 5 m3 (1.48 SG).	F4	0.50
12:45	18:00	POOH 8-3/4" BHA from 2571 to 938 m (inside 9-5/8" csg shoe). Tight spot @ 2089 and 1653 m - wipe to clear. Flow check - hole static.	F2A	5.25
18:00	19:00	Continue POOH 8-3/4" BHA from 938 to 158 m.	F2B	1.00
19:00	20:00	Handle 8-3/4" BHA - Rack back motor and bit (mud loss during POOH = 1.6 m3, loss rate = 0.23 m3/hr).	F2C	1.00
20:00	20:15	Rig floor clear. Hold pre-job safety meeting. R/U schlumberger.	G6	0.25
20:15	20:30	M/U PEx logging tool - surface test and load radioactive source.	G6	0.25
20:30	21:00	RIH PEx logging tool to 9-5/8" casing shoe.	G6	0.50
21:00	22:15	Log down from 9-5/8" casing shoe to TD (2692.2 mMD wireline depth).	G6	1.25
22:15	00:00	Log up from TD to 9-5/8" casing shoe.	G6	1.75
			Cum Dur ...	24.00

Summary/Remar...

Summary :
Continue drill 8-3/4" section to TD. Circulate hole clean. POOH 8-3/4" BHA. Perform PEx logging.

00:00-06:00 Operations
==========
00:00-00:30 POOH PEx logging tool from 9-5/8" casing shoe to surface. Average hole size = 8.77 ".
00:30-01:00 Unload radio active source and L/D PEx. Mud loss while logging = 0.3 m3.
01:00-01:15 M/U XPT tool and surface test.
01:15-01:30 RIH XPT tool from surface to 9-5/8" csg shoe, test packer -ok.
01:30-02:15 RIH XPT tool from 9-5/8" csg shoe to 2089.5 m (1st p-test point).
02:15-06:00 Perform XPT pressure tests.

-No of observation cards = 5
-Motor gap bearing = 2.5 mm, 30 hr running hour

Mud Products

Trade Name	Units	On Loc	Used
ECOTROL RD	sx	23.0	
ESCAID 110	m3	45.56	
Barite	sx	37.0	0
Lime	sx	130.0	20

Operation Summary :
Continue drill 8-3/4" section to TD. Circulate hole clean. POOH 8-3/4" BHA. Perform PEx logging.

00:00-06:00 Operations
==========

Well status at 6:00 am :
POOH XPT logging tool.

Planned Operation :
Run 7" casing and perform cmt job. Run 2-7/8" completion

Accidents:
694.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job Meeting

Personnel

Company	Qty
PTTEP	5
GWDC	86
BJ services	3
Halliburton	5
I-Log	4
MI-Swaco	4
PCS	3
Pro Waste	13
Securicor	4
Schlumberger	8

Day Total	Cum To Date	Mud Total	Mud Cum To Date
81,261.00	346,485.00	8,459.99	53,419.52

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)

Wind Direction (?)	P bar (mbars)	Current Speed (km...	Current Direction (?)

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel	m3		7.8	2...

SUT Central Plain 1A

Rig Name		Company Representatives	Casing	DATE:	29/Mar/2007
			Next : 7" csg @ +/- 2700m	RPT #:	2

Penetration

Bit

Parameters

Drillstring Assembly

Survey Data

Mud

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
13:15	14:15	Install wellhead side outlet valves. N/U BOP and bell nipple.	C3	1.00
14:15	14:45	Change TDS 6all and elevator.	C3	0.50
14:45	15:15	M/U & RIH CTT with 5"DP stand. Pressure test BOP connection against pipe ram to 500/3000 psi - ok. L/D cup type tester.	C3	0.50
15:15	15:30	Install wearbushing.	C3	0.25
15:30	16:45	L/D 7" motor. P/U new motor. M/U 8-3/4" BHA - change motor sleeve to 8-3/8".	F2C	1.25
16:45	17:00	Surface test MWD and motor - ok.	F2G	0.25
17:00	18:15	RIH 8-3/4" BHA from 18 to 500 m.	F2B	1.25
18:15	18:30	Shallow test MWD - ok.	F2B	0.25
18:30	18:45	Continue RIH 8-3/4" BHA from 500 to 914 m.	F2B	0.25
18:45	19:00	Wash down from 914 to tag top plug @ 940 m.	C4	0.25
19:00	19:45	MWD failure - attempt to get survey by pumping different rate - neg.	FN6A	0.75
19:45	21:00	Pull back 8-3/4" BHA from 940 to 500 m. Retest MWD at different flow rate - neg.	FN6A	1.25
21:00	22:15	POOH 8-3/4" BHA. Change out new probe and pulser. Surface test MWD - ok.	FN6A	1.25
22:15	23:00	RIH 8-3/4" BHA from 18 to 500 m.	FN6A	0.75
23:00	23:15	Shallow test MWD - ok.	FN6A	0.25
23:15	00:00	Continue RIH 8-3/4" BHA from 500 to 914 m.	FN6A	0.75

Summary/Remar...

Summary :
Continue back ream out 12-1/4" BHA. Handle 12-1/4" BHA. Run 9-5/8" casing and perform cmt job. N/U BOP and pressure test. M/U 8-3/4" BHA and RIH to bottom. MWD fail. POOH 8-3/4" BHA - change probe and pulser. RIH 8-3/4" BHA to bottom.

00:00-06:00 Operations
==========
00:00-00:15 Wash down from 914 to tag top plug @ 940 m, meanwhile test MWD (120 spm, 1045 psi) - ok.
00:15-00:45 Take SCR for both pumps. Drill out shoetrack.
00:45-06:00 Drill 8-3/4" hole from 958 to 1150 m.
Meanwhile P/U 8 stands of 5" DP.

-No of observation cards = 7

Mud Products

Main Stock

Operation Summary :
Continue back ream out 12-1/4" BHA. Handle 12-1/4" BHA. Run 9-5/8" casing and perform cmt job. N/U BOP and pressure test. M/U 8-3/4" BHA and RIH to bottom. MWD fail. POOH 8-3/4" BHA - change probe and pulser. RIH 8-3/4" BHA to bottom.

Well status at 6:00 am :
Drill 8-3/4" section @ 1150 m.

Planned Operation :
Continue drill 8-3/4" section to TD. Circulate hole clean.

Accidents:
692.00 days without Lost Time Accident (LTA) PTTEP

Personnel

Supply Boats

Standby Boat

Variable Load

Weather Conditions

SUT Central Plain 1A

Id Name	Branch Name	Start Depth (mKB)	Company Representatives	Casing		DATE:	28/Mar/2007
1	Original Hole	20.00	Company Man	OD (in)	Depth (mKB)	RPT #:	1
Rig	Phase		Sarit R.	20	20.00		
GW80	12"1/4		RongrithP.	Next : 9-5/8" csg @ +/- 953.7m		Midnight Depth (mKB)	958.00

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
1R	20.00	958.00	938.00	14.00	67.0	938.00	14.00	67.0

Bit

Bit and Core Head Inventory	Bit Dull
12 1/4in, DSX419SE5, 214852	2-3-CT-A-X-I-ER-TD

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
15	80	3,500.	1,500.0	10

Drillstring Assembly

Bit Run	BHA
1R	Hycalog DSX419SE5, 9 5/8" SperryDrill Lobe 6/7 - 5.0 sg, X-Over sub, 6" Float sub, 8" NM Pony Collar, 8" MWD NM HOS, NM X-O sub, 10 x HWDP, 6 1/2" Jar, 4 x 5" HWDP (total 156.04m)

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method
659.20	45.53	195.54	MWD
687.90	45.38	195.12	MWD
716.70	45.25	195.53	MWD
745.40	45.24	195.49	MWD
774.20	45.05	195.35	MWD
803.00	46.73	196.28	MWD
831.80	46.47	196.17	MWD
860.60	45.88	196.59	MWD
889.30	45.66	196.89	MWD
918.10	45.22	196.54	MWD
943.40	45.14	197.17	MWD

Mud

Mud type			
Water/ Native clay			
Mud Weight (sg)	ECD		Mud T (?C)
1.14	1.14		44
Initial (m?)	Added (m?)		Final (m?)
	256.30		167.30
Form.Gain (m?)	Form.Los. (m?)		Surf.Los. (m?)
			88.00

YP (lb/100ft?)	YS (lb/100ft?)	PV	Marsh
10	9	6	36

pH	Pm	Pf (mL/mL)	Mf (mL/mL)

Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)

KCl (mg/L)	Sand (%)	Solids (Co...	CEC (kg/m3)
	0.5	5.0	

Fil. (mL/3...	FC (mm)	HPHT Fil ...	HTHP FC ...

Water (%)	Oil (%)	OW	ES (V)
95.0			

LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)
10.0	0.0		

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
03:00	05:15	Prepare to skid rig. Skid rig from well LKU-E33(EAH) to LKU-E34(EAI) - 6 m skidding.	A1B	2.25
05:15	06:30	Install drilling equipment.	A1B	1.25
06:30	07:15	R/U flow riser. Install mouse hole. ***Rig accept @ 06:30 hr, 28-March-2007 Total rig move time = 0.15 days***	F10	0.75
07:15	07:30	Pressure test surface line to 500/3000 psi - ok.	F10	0.25
07:30	08:15	M/U 12 1/4" BHA - bit, motor and HOC	F10	0.75
08:15	21:15	Surface test MWD - ok. Drill 12-1/4" hole from 20 m to 903 m.	F1	13.00
21:15	21:30	Observe low pressure - suspect leaking in mud pump#2. Change out piston and liner#1of MP#2, meanwhile drill 12-1/4" hole slowly with 120 spm from 903 to 923 m.	FN9B	0.25
21:30	22:15	Continue drill 12-1/4" hole from 923 m to section TD (958 mMD / 805 mVD). Drop carbide @ 932 m; average hole size : 12.29 " (first) / 12.68 " (peak), BHCT 49.2 degC @ 943 mMD/ 797.1 mVD. Dump sand trap @ 213 m (26 % sand) , 414 m (17 % sand), 618 m (10 % sand), 818 m (5 % sand), at TD (4 % sand). Drilling parameter : Sliding: WOB = 10 klbs, 2600 - 3500 lpm, 500 - 1400 psi Rotate: WOB = 10 - 15 klbs, 2600 - 3500 lpm, 550 - 1600 psi, RPM= 60 - 80 , Torque= 3 - 10 kft-lbs Rotate: 586 m/ 3.37 hrs - Avg. ROP 168 m/hr. Slide: 372 m/ 3.86 hrs - Avg. ROP 96.4 m/hr. Connection time = 2.25 hrs.	F1	0.75
22:15	00:00	Take survey at TD. Back ream out of hole from 958 m to 702 m (2800 lpm, RPM= 80 , Torque= 5 - 10 kftlbs). Dump sand trap @ 785 m (4 % sand).	F3	1.75
			Cum Dur ...	21.00

Summary/Remar...

Summary :
Skid rig to LKU-E34(EAI). Spud-in LKU-E34 (EAI) to TD (958 mD/805 mVD). Back ream out from TD to 702 m.

00:00-06:00 Operations
==========
00:00-02:15 Back ream out of hole from 958 m to 702 m. Dump sand trap at 466 m (5 % sand), 158 m (4 % sand).
02:15-03:15 Handle 12-1/4" BHA - L/D MWD, motor bit. Rack back HWDP stands.
03:15-03:45 R/U 9-5/8" casing running equipment.
03:45-04:00 M/U shoetrack, check float -ok. Apply baker-lock on first two connections. Pre-job safety meeting.
04:00-06:00 RIH 9-5/8" casing from 12 m to 361 m.

-motor gap bearing = 4 mm, running hours = 26 hr.
-No of observation cards = 0

Mud Products

Trade Name	Units	On Loc	Used
Barite	sx	40.0	
Bentonite	sx	161.0	84.0
CAL CARB (C)	sx	120.0	
CAL CARB (M)	sx	120.0	
CAL CHLORIDE	sx	290.0	
DUO-VIS	sx	18.0	
ECOTROL RD	sx	32.0	
ESCAID 110	m3	92.96	
HRP	drum	5.0	
KCl (BB)	sx	11.0	

Operation Summary :
Skid rig to LKU-E34(EAI). Spud-in LKU-E34 (EAI) to TD (958 mD/805 mVD). Back ream out from TD to 702 m.

00:00-06:00 Operations

Well status at 6:00 am :
RIH 9-5/8" casing at 345 m.

Planned Operation :
Run 9-5/8" casing and perform cement job. N/U BOP. M/U 8-3/4" BHA and RIH to tag top plug. Drill 8-3/4" section.

Accidents:
691.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills

Personnel

Company	Qty
PTTEP	4
GWDC	83
BJ services	3
Halliburton	5
I-Log	2
MI-Swaco	4
PCS	3
Pro Waste	13
Securicor	4

Day Total	Cum To Date	Mud Total	Mud Cum To Date
58,712.00	58,712.00	1,230.60	1,230.60

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)

Wind Direction (?)	P bar (mbars)	Current Speed (km...	Current Direction (?)

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel	m3	27.4	3.6	23.8

MI SWACO

8.75 " INTERVAL

SUT Central Plain 1A

OPERATOR :	SPUD : 28 Mar 07	DATE : 29 Mar 07	DEPTH TVD/MD m.	805	958
WELL NAME :	AREA : SIRIKIT OILFIEL	RIG : GW80	MUD ENGINEER : Preecha Ruangrak / Wanchana Srisai		
OPERATOR REP : Sarit Rattanachan/ Rongrith P.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jiu		

MUD TYPE : Versaclean OB	MUD PROPERTIES			MUD PROPERTY SPEC.						
SAMPLE FROM	Active			Weight 1.20 sg.	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20	YP	10-20
TIME SAMPLE TAKEN	21:00			ES V. 600	Excess Lime	1-2	CaCl2%	20-22	6 RPM	8-10
PIT/FLOWLINE TEMP. °C				MATERIALS USAGE & COSTS						
DEPTH MD (m)	958	3143.04 ft		MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
DEPTH TVD (m)	805			BARITE	1.5 mt / sx	40	16		2	54	$333.50
MUD WEIGHT (sg)	1.20			BENTONITE (M-I	100 lb / sx	96				96	
FUNNEL VISCOSITY (sec/qt)	57			CAL CARB (C)	50 kg / sx	120				120	
PLASTIC VISCOSITY (cp)	15			CAL CARB (F)	25 kg / sx						
YIELD POINT (lb/100 cu. ft²)	15			CAL CARB (M)	50 kg / sx	120				120	
GELS (lb/100 ft²) 10/10/30	16/26/30			CAL CHLORIDE	25 kg / sx	290			131	159	$1,899.50
ES (volts)	703			DUO-VIS	25 kg / sx	18				18	
OIL WATER RATIO	80/20			ECOTROL RD	25 kg / sx	32				32	
HTHP (cm³/30min) @ 250° F	2.1			ESCAID 110	1 m3 bk	122.61			40.40	82.21	$26,070.93
CAKE (32nd in. API/HTHP)	2			HRP	55 gal / dr	5				5	
RE[illegible]T SOLIDS (%vol)	13.5			LIME	25 kg / sx	135			40	95	$254.00
RE[illegible]RT OIL (%vol)	69.0			NOVATEC F	55 gal / dr	6				6	
RETORT WATER (%vol)	17.5			KCl	25 kg / sx	178			49	129	$771.75
CORRECTED SOLIDS (%vol)	12.3			KCl (BB)	1 mt / sx	11				11	
% LGS	4.2			OIL BASE MUD	1 m3 bk	175.70			175.70		
% BAR	8.1			VERSACOAT IC	55 gal / dr	12			5	7	$2,000.00
LGS ppb	37.9			VERSAGEL HT	25 kg / sx	120			20	100	$3,129.00
BAR (ppb)	119.2			VERSAMOD	55 gal / dr	7			1	6	$588.50
				VERSAMUL IC	55 gal / dr	12			3	9	$1,074.60
ALKALINITY (Pom)	1.4			VERSATROL	50 lb / sx	145			40	105	$1,078.90
EXCESS LIME (lb/bbl)	1.8										
CHLORIDE (mg/l)	32,000			DAILY ENGR. SERVICE		$1,300	DAILY CHEM. COST				$37,199.78
CACL2 (%)	22.3			PREVIOUS ENGR. TOTAL		$1,300	PREVIOUS CHEM. TOTAL				$1,230.60
				CUM. ENGR. SERVICE		$2,600	CUM. CHEM. TOTAL				$38,430.38
SAND CONTENT (% vol)	0.40			COMMENTS / RECOMMENDATIONS							
AVERAGE SOLIDS, spgr	3.7			Landed 9 5/8' csg at 953.7mMD circulated and cemented as per program. Displaced cement with 1.20sg OBM. Dumped 6.6m3 neat cement at surface. R/D cement head. N/U BOP and pressure test. M/U and RIH 8 3/4" directional BHA. Shallow test MWD. RIH to tag cement TOC = 940m. No LOT required (used result from previous well). POOH for MWD change. Re-run to 938m at time of report.							
RHEOLOGY 600/300	45/30										
65° C 200/100	21/15										
6/3	10/9										
OOC %				Dumped sandtrap when backreamed out of hole at 466m (5% sand) and 158m (4% sand). BJ used chemicals; 49 sxs KCl and 6 sxs CaCl2. Cleaned and prepared pits for OBM. Transferred mud from storage location to rig site. Received barite from warehouse.							

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1	152		
Centrifuge #2	552S		
Derrick Shaker 1	165/165/165	5.0	
Derrick Shaker 2	165/165/165	6.0	
Derrick Shaker 3	165/165/165	5.0	

HYDRAULICS	(m/min)
Ann Vel	
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	1.20

MUD VOLUMES	m3
ANNULAR VOLUME	26.6
STRING CAPACITY	7.9
ACTIVE PITS	52.4
TOTAL CIRC. VOLUME	86.9
RESERVE OBM	144.4
TOTAL VOLUME	231.3

MUD VOL ACCOUNTING (m3)	
STARTING VOL	
OBM RECD FROM PREV. WELL	175.7
OIL ADDED	40.4
WATER ADDED	10.2
CHEMICAL ADDED	5.6
TOTAL VOLUME BUILT	56.2
FORMATION	
SHAKERS	0.3
DUMPED /SOLIDS	
CENTRIFUGES	
TRIPS	0.3
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	0.6
OBM T/F TO NEXT WELL	
ENDING VOLUME	231.3
CUM BUILT SECTION	56.2
CUM LOST SECTION	0.6

SCREENS USED

CASING DATA: 9.625-in @953 m (801 TVD)

SHOE TEST (EMW): 1.76

BIT DATA		STRING DATA				PUMP DATA			
TYPE : PDC HC605			LENGTH	OD	ID	PUMP SIZE 5.75x12 in	spm	gpm	
SIZE:	8 3/4	CSG				OUTPUT@97% 0.093 bps		bbl/min	
JETS:	5x18	DP1	780.50	5.000	4.276	PUMP PRESSURE		psi	
		HWDP	138.66	5.000	3.000	SURF. TO BIT		min	
		DC	18.84	6.500	2.750	BOTTOMS UP TIME/STK.			
TFA	0.982	Liner				TOTAL CIRC. TIME/STK.			

$0.093 \frac{bbl}{s} \times \frac{60s}{1m} \times \frac{42 gal}{1 bbl} = 234.36$ gpm

SUT Central Plain 1A

Rig Name	Branch Name	Start Depth (mKB)	Company Representatives	Casing		DATE:	01/Apr/2007
	Original Hole	20.00	Company Man	OD (in)	Depth (mKB)	RPT #:	5
Rig	Phase		Serit R	7	2,686.00	Midnight Depth (mKB)	
GW80	8"3/4		RongrithP.	Next : WEG @ +/- 2670 m		2,691.00	

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)

Bit

Bit and Core Head Inventory	Bit Dull

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)

Drillstring Assembly

Bit Run	BHA

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method

Mud

Mud type			
KCL Brine			
Mud Weight (sg)	ECD		Mud T (?C)
1.02			
Initial (m?)	Added (m?)		Final (m?)
190.10			178.30
Form.Gain (m?)	Form.Los. (m?)		Surf.Los. (m?)
			11.80
YP (lbf/100ft?)	YS (lbf/100ft?)	PV	Marsh
pH	Pm	Pf (mL/mL)	Mf (mL/mL)
Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)
KCl (mg/L)	Sand (%)	Solids (Co...	CEC (kg/m3)
Filt. (mL/3...	FC (mm)	HPHT Filt ...	RTHP FC ...
Water (%)	Oil (%)	OW	ES (V)
LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	00:30	POOH PEx logging tool from 9-5/8" casing shoe to surface. Max temperature = 100 degC @ 2678.5 mMD/ 2018 mVD (9 hr 55 min after EOC). Average hole size = 8.77 " (one-arm caliper). Cable Tension & Head Tension were recorded = 5700 and 587 lbf at TD.	G6	0.50
00:30	01:00	Unload radio active source and L/D PEx. Mud loss while logging = 0.3 m3, loss rate = 0.13 m3/hr.	G6	0.50
01:00	01:15	M/U XPT tool and surface test.	G5	0.25
01:15	01:30	RIH XPT tool from surface to 9-5/8" csg shoe, test packer, ok.	G5	0.25
01:30	02:15	RIH XPT tool from 9-5/8" csg shoe to 2089.5 m (1st p-test point).	G5	0.75
02:15	06:00	Perform XPT pressure tests. Total 28 points (25 normal, 2 dry, 2 tight). Formation pressure = 0.59 SG - 0.93 SG EMW. Max temperature = 102 degC @ 2652 mMD/ 1937.7 mVD (17 hr 50 min after EOC).	G5	3.75
06:00	06:30	POOH XPT tool to 9-5/8" casing shoe.	G5	0.50
06:30	06:45	POOH XPT tool from 9-5/8" casing shoe to surface.	G5	0.25
06:45	07:00	L/D XPT tool. Mud loss while logging = 0.4 m3, loss rate = 0.07 m3/hr.	G5	0.25
07:00	07:15	R/D Schlumberger.	G1A	0.25
07:15	07:45	R/U 7" casing running equipment.	C1A	0.50
07:45	08:00	Retrieve wear bushing.	C3	0.25
08:00	08:15	M/U 7" shoetrack, check float - ok.	C1	0.25
08:15	11:30	RIH 7" casing from 12 m to 938 m (inside 9-5/8" casing shoe). Break circulation at shoe.	C1	3.25
11:30	19:00	Continue RIH 7" casing from 938 m to 2673 m.	C1	7.50
19:00	19:30	M/U 7" hanger c/w landing joint. Wash down to land 7" casing hanger w/ land of weight 80 klbs. --Run 224 joints of 7" casing, #23 SLHC, N80, R3 - shoe @ 2685 m. & float collar @ 2684 m.	C1	0.50
19:30	19:45	R/U cement head & lines.	C2	0.25
19:45	20:30	Circulate prior cement job (80 spm, 480 psi), 0.14 m3 loss during circulating. Meanwhile perform pre-job safety meeting.	C2	0.75
			Cum Dur ...	24.00

Summary/Remar...

Summary :
Continue Perform PEx and XPT logging. Run 7" casing and perform 7" cmt job.

00:00-06:00 Operations
==========
00:00-06:00 Continue L/D 55 stands of 5" DP. L/D HWDP and motor.

Remark:
-No of observation cards = 4
-Pre move load (1/4/07) = 14 loads
-Move distance = 9 km.

Mud Products

Trade Name	Units	On Loc	Used
DUO-VIS	sx	16.0	2.0
Barite	sx	33.0	4.0
ESCAID 110	m3	43.96	1.6
KCL	sx	69.0	51.0

Operation Summary :
Continue Perform PEx and XPT logging. Run 7" casing and perform 7" cmt job.

00:00-06:00 Operations
Well status at 6:00 am :
R/U 2-7/8" completion equipment

Planned Operation :
Run 2-7/8" completion. Rig move to LKU-K location.

Accidents:
695.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job Meeting

Personnel

Company	Qty
PTTEP	5
GWDC	86
BJ services	3
Halliburton	5
I-Log	4
MI-Swaco	4
PCS	3
Pro Waste	13
Securicor	4
Schlumberger	8

Day Total	Cum To Date	Mud Total	Mud Cum To Date
374,848.00	721,334.00	3,032.76	56,452.28

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)
Wind Direction (?)	**P bar (mbars)**	**Current Speed (km...**	**Current Direction (?)**

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel	m3		3.8	17.0

SUT Central Plain 1A

Well Name	Branch Name	Start Depth (mKB)	Company Representatives	Casing		DATE:	02/Apr/2007
1	Original Hole	20.00	Company Man	OD (in)	Depth (mKB)	RPT #:	6
			Sant R.	7	2,686.00		
Rig	Phase		RongrithP.	Next : WEG @ +/- 2068 m		Midnight Depth (mKB)	
GW80	COMPLETION					2,691.00	

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)

Bit

Bit and Core Head Inventory	Bit Dull

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)

Drillstring Assembly

Bit Run	BHA

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method

Mud

Mud type: KCL Brine

Mud Weight (sg)	ECD	Mud T (?C)
1.02		

Initial (m?)	Added (m?)	Final (m?)

Form.Gain (m?)	Form.Los. (m?)	Surf.Los. (m?)

YP (lb/100ft?)	YS (lb/100ft?)	PV	Marsh

pH	Pm	Pf (mL/mL)	Mf (mL/mL)

Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)

KCl (mg/L)	Sand (%)	Solids (Cc...	CEC (kg/m3)

Fil. (mL/3...	FC (mm)	HPHT Filt ...	HTHP FC ...

Water (%)	Oil (%)	OW	ES (V)

LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	00:45	L/D motor and 8-3/4" BHA. Break out bit.	P4F	0.75
00:45	06:30	L/D 64 jnts of 5" DP.	P4F	5.75
06:30	06:45	Change bails and elevator.	P4F	0.25
06:45	07:15	R/U 2-7/8" completion running equipment. Hold pre-job safety meeting. Calibrate power tong torque for 2-7/8" tubing 6.4# SL Apex-1T, N-80 to 1800 ft-lb.	P4F	0.50
07:15	14:00	RIH 2-7/8" completion to 2057 m. Meanwhile P-test B-annulus @ 600 psi - pressure stable.	P4F	6.75
14:00	14:45	M/U tubing hanger c/w landing joint. Lower completion string to 0.3 m above WHD, WEG @ 2068 m (total 162 joints of 2-7/8" tubing 6.4# SL Apex-1T, N-80	P4F	0.75
14:45	15:15	M/U circulating head and P-test completion string in stages 500/1000/1500/3000 psi for 15 min - PKR#1 set @ 2300 psi. Recycle pressure from 0 to 3000 psi and bleed-off pressure. Land tubing hanger in wellhead. P-Test hanger seal @ 3000 psi -ok.	P4F	0.50
15:15	15:45	P-test A-annulus 500/1000/1500 psi for 15 min - ok. Remove stairs, catwalk and V-door. **** Rig release @ 15:45 hr 2-April-07 **** Total operating time = 5.39 days (Rig accept to rig release)	P4F	0.50

Cum Dur : 15.75

Summary/Remar...

Summary :
L/D 8-3/4" BHA and 5" DP. R/U 2-7/8" completion equipment.
RIH 2-7/8 tubing - WEG @ 2068 m. Set packer at 2300 psi.
Pressure test A & B annulus -ok. N/D BOP

Remark:
-No of observation cards = 5
-Pre move load (1/4/07) = 14 loads
-Main move load (2/4/07) = 23 loads
-Move distance = 9 km.
-No of trailers = 12 (Inc 1 broken), No of cranes = 5

Mud Products

Trade Name	Units	On Loc	Used
KCl (BB)	sx	10.0	1.0

Operation Summary :
L/D 8-3/4" BHA and 5" DP. R/U 2-7/8" completion equipment. RIH 2-7/8 tubing - WEG @ 2068 m. Set packer at 2300 psi. Pressure test A & B annulus -ok. N/D BOP

Remark:
Well status at 6:00 am :

Planned Operation :
Rig move to LKU-K location

Accidents:
698.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job Meeting

Personnel

Company	Qty
PTTEP	5
GWDC	96
BJ services	3
Halliburton	0
I-Log	0
MI-Swaco	0
PCS	3
Pro Waste	13
Securicor	4
Schlumberger	0

Day Total	Cum To Date	Mud Total	Mud Cum To Date
135,259.00	856,583.00	455.00	56,907.28

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	P'ave Direction	Wind Speed (Knot)

Wind Direction (?)	P bar (mbars)	Current Speed (km...	Current Direction (?)

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel	m3		2.0	15.0

MI SWACO

17.50 " INTERVAL

SUT Central Plain 2A

OPERATOR :	SPUD : 08 May 07	DATE : 08 May 07	DEPTH TVD/MD m.	455	455
WELL NAME :	AREA : Sirikit oilfield	RIG : GW80	MUD ENGR : Preecha Ruangrak / Chanin Wongdontri		
OPERATOR REP : Aung Kyaw/ Rongrith P.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jiu		

MUD TYPE : Water/Native cl	MUD PROPERTIES				MUD PROPERTY SPEC.					
SAMPLE FROM			Active		Weight 1.15 sg	HTHP FL		OWR		YP
TIME SAMPLE TAKEN			22:00		ES V	Excess Lime		CaCl2%		6 RPM

					MATERIALS USAGE & COSTS							
DEPTH MD (m)			404		MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
DEPTH TVD (m)			404		BARITE	1.5 mt / sx	42				42	
MUD WEIGHT (sg)			1.06		BENTONITE (M-	100 lb / sx	111	280		76	315	$1,113.40
FUNNEL VISCOSITY (sec/qt)			35		CAL CARB (C)	50 kg / sx	174				174	
PLASTIC VISCOSITY (cp)			5		CAL CARB (F)	25 kg / sx						
YIELD POINT (lb/100 cu. ft²)			7		CAL CARB (M)	50 kg / sx	152				152	
GELS (lb/100 ft²) 10/10/30			5/7/9		CAL CHLORIDE	25 kg / sx	190				190	
ES (volts)					DUO-VIS	25 kg / sx	10				10	
OIL WATER RATIO					ECOTROL RD	25 kg / sx	17				17	
HTHP (cm³/30min) @ 250° F					ESCAID 110	1 m3 bk	88.55				88.55	
CAKE (32nd in. API/HTHP)					HRP	55 gal / dr	5				5	
RETORT SOLIDS (%vol)			4.0		LIME	25 kg / sx	135				135	
RETORT OIL (%vol)					NOVATEC F	55 gal / dr	5				5	
RETORT WATER (%vol)			96.0		KCl	25 kg / sx	70	240			310	
CORRECTED SOLIDS (%vol)			4.0		KCl (BB)	1 mt / sx	15				15	
% LGS			4.6		OIL BASE MUD	1 m3 bk	159.60				159.60	
% BAR			N/A		VERSACOAT IC	55 gal / dr	10				10	
LGS ppb			42.3		VERSAGEL HT	25 kg / sx	136				136	
BAR (ppb)			N/A		VERSAMOD	55 gal / dr	7				7	
					VERSAMUL IC	55 gal / dr	13				13	
ALKALINITY (Pom)					VERSATROL	50 lb / sx	107				107	
EXCESS LIME (lb/bbl)												
CHLORIDE (mg/l)					DAILY ENGR. SERVICE		$1,300	DAILY CHEM. COST				$1,113.40
CACL2 (%)					PREVIOUS ENGR. TOTAL		$2,600	PREVIOUS CHEM. TOTAL				
					CUM. ENGR. SERVICE		$3,900	CUM. CHEM. TOTAL				$1,113.40
SAND CONTENT (% vol)			0.50									
AVERAGE SOLIDS, spgr			2.6									

RHEOLOGY	600/300		17/12
65° C	200/100		9/6
	6/3		4/3
OOC % (Brandt / Thule)			

COMMENTS / RECOMMENDATIONS

Finished R/U. P/U 5" DP. M/U 17.5" BHA. Spudded in at 12:30 hrs. Drilled to 455 m./455m TVD at report time.

Prepared 25 ppb Hivis Bentonite in slug pit. Dumped sandtrap at 102.8m.(17% sand), 187m.(16% sand), 302m.(14% sand), 446m.(11% sand). Blad Hi-vis Bentonite to active system after dumping sand trap. Pumped water from concrete pit to shaker box to maintain volume. Received chemicals from warehouse.

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1	152	10	
Centrifuge #2	552S	10	
Derrick Shaker 1	210/210/210	12	
Derrick Shaker 2	210/210/210	12	
Derrick Shaker 3	210/210/210	12	

HYDRAULICS		
Ann Vel	(m/min)	
DP/CSG	25.0	
DP/OH	25.0	
HW/OH	29.0	
DC/OH		
ECD	1.06	

SCREENS USED

MUD VOLUMES	m3
ANNULAR VOLUME	64.3
STRING CAPACITY	3.5
ACTIVE PITS	110
TOTAL CIRC. VOLUME	177.8
RESERVE OBM	16
OBM AT M LOCATION	
TOTAL VOLUME	193.8

CASING DATA
SHOE TEST (EMW)

MUD VOL ACCOUNTING (m3)	
STARTING VOL	126.00
OBM RECD FROM PREV. WELL	
OIL ADDED	
WATER ADDED	128.30
CHEMICAL ADDED	1.30
TOTAL VOLUME BUILT	129.60
FORMATION	
SHAKERS	15.00
DUMPED	36.00
CENTRIFUGES	10.80
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	61.80
OBM T/F TO NEXT WELL	
ENDING VOLUME	193.80
CUM BUILT SECTION	255.60
CUM LOST SECTION	61.80

BIT DATA		STRING DATA	LENGTH	OD	ID
TYPE : Hughes GTX CG1					
SIZE:	17 1/2	CSG			
JETS:	8x14	DP1	296.40	5.000	4.276
		HWDP	129.12	5.000	3.000
		DC	29.49	8.000	3.250
TFA	1.203	Liner			

PUMP DATA			
PUMP SIZE	6.5x12 In	190 spm	953 gpm
OUTPUT@ 97%		22.7	bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK		17.8 min	3384 stk
TOTAL CIRC. TIME/STK.		49.3 min	9364 stk

MI SWACO

17.50 " INTERVAL

SUT Central Plain 2A

OPERATOR :	SPUD	DATE : 07 May 07	DEPTH TVD/MD m.
WELL NAME :	AREA : Sirikit oilfield	RIG : GW80	MUD ENGR : Preecha Ruangrak / Chanin Wongdontri
OPERATOR REP : Aung Kyaw/Rongrith		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jul

MUD TYPE : Water/Native cl	MUD PROPERTIES			MUD PROPERTY SPEC.						
SAMPLE FROM			Water	Weight	1.15 sg	HTHP FL		OWR		YP
TIME SAMPLE TAKEN				ES V		Excess Lime		CaCl2%		6 RPM
PIT/FLOWLINE TEMP. °C				MATERIALS USAGE & COSTS						
DEPTH MD (m)				MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
DEPTH TVD (m)				BARITE	1.5 mt / sx	42				42	
MUD WEIGHT (sg)			1.00	BENTONITE (M-	100 lb / sx	111				111	
FUNNEL VISCOSITY (sec/qt)			27	CAL CARB (C)	50 kg / sx	174				174	
PLASTIC VISCOSITY (cp)				CAL CARB (F)	25 kg / sx						
YIELD POINT (lb/100 cu. ft²)				CAL CARB (M)	50 kg / sx	152				152	
GELS (lb/100 ft²) 10/10/30				CAL CHLORIDE	25 kg / sx	190				190	
ES (volts)				DUO-VIS	25 kg / sx	10				10	
OIL WATER RATIO				ECOTROL RD	25 kg / sx	17				17	
HTHP (cm³/30min) @ 250° F				ESCAID 110	1 m3 bk	88.55				88.55	
CAKE (32nd in. API/HTHP)				HRP	55 gal / dr	5				5	
RETORT SOLIDS (%vol)				LIME	25 kg / sx	135				135	
RETORT OIL (%vol)				NOVATEC F	55 gal / dr	5				5	
RETORT WATER (%vol)				KCl	25 kg / sx	70				70	
CORRECTED SOLIDS (%vol)				KCl (BB)	1 mt / sx	15				15	
% LGS				OIL BASE MUD	1 m3 bk	159.60				159.60	
% BAR				VERSACOAT IC	55 gal / dr	10				10	
LGS ppb				VERSAGEL HT	25 kg / sx	136				136	
BAR (ppb)				VERSAMOD	55 gal / dr	7				7	
				VERSAMUL IC	55 gal / dr	13				13	
ALKALINITY (Pom)				VERSATROL	50 lb / sx	107				107	
EXCESS LIME (lb/bbl)											
CHLORIDE (mg/l)				DAILY ENGR. SERVICE		$2,600	DAILY CHEM. COST				
CACL2 (%)				PREVIOUS ENGR. TOTAL			PREVIOUS CHEM. TOTAL				
				CUM. ENGR. SERVICE		$2,600	CUM. CHEM. TOTAL				
SAND CONTENT (% vol)				COMMENTS / RECOMMENDATIONS							
AVERAGE SOLIDS, spgr				Rigged up at LKU-F location.							
RHEOLOGY 600/300											
65° C 200/100											
6/3											
OOC % (Brandt / Thule)				Charged off 2 days engineering service (6th and 7th May). Filled up all active pits with water. Dressed up all shakers with 200 mesh screens.							

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1			
Centrifuge #2			
Derrick Shaker 1	210/210/210		
Derrick Shaker 2	210/210/210		
Derrick Shaker 3	210/210/210		

HYDRAULICS		SCREENS USED
Ann Vel	(m/min)	
DP/CSG		
DP/OH		
HW/OH		
DC/OH		
ECD		

MUD VOLUMES	m3	CASING DATA
ANNULAR VOLUME		
STRING CAPACITY		
ACTIVE PITS	110	
TOTAL CIRC. VOLUME	110	
RESERVE WBM	16	
OBM AT M LOCATION		
TOTAL VOLUME	126	
		SHOE TEST (EMW)

MUD VOL ACCOUNTING (m3)	
STARTING VOL	
OBM RECD FROM PREV. WELL	
OIL ADDED	
WATER ADDED	126.00
CHEMICAL ADDED	
TOTAL VOLUME BUILT	126.00
FORMATION	
SHAKERS	
DUMPED	
CENTRIFUGES	
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	
OBM T/F TO NEXT WELL	
ENDING VOLUME	126.00
CUM BUILT SECTION	126.00
CUM LOST SECTION	

BIT DATA		STRING DATA	LENGTH	OD	ID
TYPE :					
SIZE:	17 1/2	CSG			
JETS:		DP1			
		HWDP			
		DC			
TFA		Liner			

PUMP DATA			
PUMP SIZE	6.5x12 in	spm	gpm
OUTPUT@ 97%			bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK.			
TOTAL CIRC. TIME/STK.			

MI SWACO

17.50 " INTERVAL

SUT Central Plain 1A

OPERATOR	SPUD	DATE : 07 May 07	DEPTH TVD/MD m.
WELL NAME :	AREA : Sirikit oilfield	RIG : GW80	MUD ENGR : Preecha Ruangrak / Chanin Wongdontri
OPERATOR REP : Aung Kyaw/Rongrith		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jul

MUD TYPE : Water/Native cl	MUD PROPERTIES				MUD PROPERTY SPEC.						
SAMPLE FROM			Water		Weight	1.15 sg	HTHP FL		OWR		YP
TIME SAMPLE TAKEN					ES V		Excess Lime		CaCl2%		6 RPM
PIT/FLOWLINE TEMP. °C											
DEPTH MD (m)											
DEPTH TVD (m)											
MUD WEIGHT (sg)			1.00								
FUNNEL VISCOSITY (sec/qt)			27								
PLASTIC VISCOSITY (cp)											
YIELD POINT (lb/100 cu. ft²)											
GELS (lb/100 ft²) 10/10/30											
ES (volts)											
OIL WATER RATIO											
HTHP (cm³/30min) @ 250° F											
CAKE (32nd in. API/HTHP)											
RETORT SOLIDS (%vol)											
RETORT OIL (%vol)											
RETORT WATER (%vol)											
CORRECTED SOLIDS (%vol)											
% LGS											
% BAR											
LGS ppb											
BAR (ppb)											
ALKALINITY (Pom)											
EXCESS LIME (lb/bbl)											
CHLORIDE (mg/l)											
CACL2 (%)											
SAND CONTENT (% vol)											
AVERAGE SOLIDS, spgr											
RHEOLOGY 600/300											
65° C 200/100											
6/3											
OOC % (Brandt / Thule)											

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	42				42	
BENTONITE (M-	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	174				174	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	152				152	
CAL CHLORIDE	25 kg / sx	190				190	
DUO-VIS	25 kg / sx	10				10	
ECOTROL RD	25 kg / sx	17				17	
ESCAID 110	1 m3 bk	88.55				88.55	
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	135				135	
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	70				70	
KCl (BB)	1 mt / sx	15				15	
OIL BASE MUD	1 m3 bk	159.60				159.60	
VERSACOAT IC	55 gal / dr	10				10	
VERSAGEL HT	25 kg / sx	136				136	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	13				13	
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$2,600	DAILY CHEM. COST	
PREVIOUS ENGR. TOTAL		PREVIOUS CHEM. TOTAL	
CUM. ENGR. SERVICE	$2,600	CUM. CHEM. TOTAL	

COMMENTS / RECOMMENDATIONS

Rigged up at LKU-F location.

Charged off 2 days engineering service (6th and 7th May). Filled up all active pits with water. Dressed up all shakers with 200 mesh screens.

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1			
Centrifuge #2			
Derrick Shaker 1	210/210/210		
Derrick Shaker 2	210/210/210		
Derrick Shaker 3	210/210/210		

HYDRAULICS	
Ann Vel (m/min)	
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	

SCREENS USED

MUD VOLUMES	m3
ANNULAR VOLUME	
STRING CAPACITY	
ACTIVE PITS	110
TOTAL CIRC. VOLUME	110
RESERVE WBM	16
OBM AT M LOCATION	
TOTAL VOLUME	126

CASING DATA

SHOE TEST (EMW)

MUD VOL ACCOUNTING (m3)	
STARTING VOL	
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	126.00
CHEMICAL ADDED	
TOTAL VOLUME BUILT	126.00
FORMATION	
SHAKERS	
DUMPED	
CENTRIFUGES	
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	
OBM T/F TO NEXT WELL	
ENDING VOLUME	126.00
CUM. BUILT SECTION	126.00
CUM. LOST SECTION	

BIT DATA		STRING DATA	LENGTH	OD	ID
TYPE :					
SIZE:	17 1/2	CSG			
JETS:		DP1			
		HWDP			
		DC			
TFA		Liner			

PUMP DATA			
PUMP SIZE	6.5x12 in	spm	gpm
OUTPUT@ 97%			bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK.			
TOTAL CIRC. TIME/STK.			

MI SWACO

17.50 " INTERVAL

SUT Central Plain 1A

OPERATOR :	SPUD : 08 May 07	DATE : 08 May 07	DEPTH TVD/MD m. 455 / 455
WELL NAME :	AREA : Sirikit oilfield	RIG : GW80	MUD ENGR : Preecha Ruangrak / Chanin Wongdontri
OPERATOR REP : Aung Kyaw/ Rongrith P.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jiu

MUD TYPE : Water/Native cl	MUD PROPERTIES			
SAMPLE FROM			Active	
TIME SAMPLE TAKEN			22:00	
PIT/FLOWLINE TEMP. °C				
DEPTH MD (m)			404	
DEPTH TVD (m)			404	
MUD WEIGHT (sg)			1.06	
FUNNEL VISCOSITY (sec/qt)			35	
PLASTIC VISCOSITY (cp)			5	
YIELD POINT (lb/100 cu. ft²)			7	
GELS (lb/100 ft²) 10/10/30			5/7/9	
ES (volts)				
OIL WATER RATIO				
HTHP (cm³/30min) @ 250° F				
CAKE (32nd in. API/HTHP)				
RETORT SOLIDS (%vol)			4.0	
RETORT OIL (%vol)				
RETORT WATER (%vol)			96.0	
CORRECTED SOLIDS (%vol)			4.0	
% LGS			4.6	
% BAR			N/A	
LGS ppb			42.3	
BAR (ppb)			N/A	
ALKALINITY (Pom)				
EXCESS LIME (lb/bbl)				
CHLORIDE (mg/l)				
CACL2 (%)				
SAND CONTENT (% vol)			0.50	
AVERAGE SOLIDS, spgr			2.6	
RHEOLOGY 65° C 600/300			17/12	
200/100			9/6	
6/3			4/3	
DOC % (Brandt / Thule)				

MUD PROPERTY SPEC.							
Weight	1.15 sg	HTHP FL		OWR		YP	
ES V		Excess Lime		CaCl2%		6 RPM	

MATERIALS USAGE & COSTS							
MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	42				42	
BENTONITE (M-	100 lb / sx	111	280		76	315	$1,113.40
CAL CARB (C)	50 kg / sx	174				174	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	152				152	
CAL CHLORIDE	25 kg / sx	190				190	
DUO-VIS	25 kg / sx	10				10	
ECOTROL RD	25 kg / sx	17				17	
ESCAID 110	1 m3 bk	88.55				88.55	
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	135				135	
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	70	240			310	
KCl (BB)	1 mt / sx	15				15	
OIL BASE MUD	1 m3 bk	159.60				159.60	
VERSACOAT IC	55 gal / dr	10				10	
VERSAGEL HT	25 kg / sx	136				136	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	13				13	
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$1,113.40
PREVIOUS ENGR. TOTAL	$2,600	PREVIOUS CHEM. TOTAL	
CUM. ENGR. SERVICE	$3,900	CUM. CHEM. TOTAL	$1,113.40

COMMENTS / RECOMMENDATIONS

Finished R/U. P/U 5" DP. M/U 17.5" BHA. Spudded in at 12:30 hrs. Drilled to 455 m./455m TVD at report time.

953.35 gpm

Prepared 25 ppb Hivis Bentonite in slug pit. Dumped sandtrap at 102.8m.(17% sand), 187m.(16% sand), 302m.(14% sand), 446m.(11% sand). Bled Hi-vis Bentonite to active system after dumping sand trap. Pumped water from concrete pit to shaker box to maintain volume. Received chemicals from warehouse.

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1	152	10	
Centrifuge #2	552S	10	
Derrick Shaker 1	210/210/210	12	
Derrick Shaker 2	210/210/210	12	
Derrick Shaker 3	210/210/210	12	

HYDRAULICS	
Ann Vel	(m/min)
DP/CSG	25.0
DP/OH	25.0
HW/OH	29.0
DC/OH	
ECD	1.06

SCREENS USED

MUD VOLUMES	m3
ANNULAR VOLUME	64.3
STRING CAPACITY	3.5
ACTIVE PITS	110
TOTAL CIRC. VOLUME	177.8
RESERVE OBM	16
OBM AT M LOCATION	
TOTAL VOLUME	193.8

CASING DATA

SHOE TEST (EMW)	

MUD VOL ACCOUNTING	(m3)
STARTING VOL	126.00
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	128.30
CHEMICAL ADDED	1.30
TOTAL VOLUME BUILT	129.60
FORMATION	
SHAKERS	15.00
DUMPED	36.00
CENTRIFUGES	10.80
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	61.80
OBM T/F TO NEXT WELL	
ENDING VOLUME	193.80
CUM BUILT SECTION	255.60
CUM LOST SECTION	61.80

BIT DATA		STRING DATA	LENGTH	OD	ID
TYPE : Hughes GTX CG1					
SIZE:	17 1/2	CSG	1346.0[illegible]		
JETS:	8x14	DP1	296.40	5.000	4.276
		HWDP	129.12	5.000	3.000
		DC	29.49	8.000	3.250
TFA	1.203	Liner		16.45	

PUMP DATA			
PUMP SIZE 6.5x12 in	190 spm	953 gpm	
OUTPUT@ 97%	22.7	bbl/min	
PUMP PRESSURE		psi	
SURF. TO BIT	-	min	
BOTTOMS UP TIME/STK.	17.8 min	3384 stk	
TOTAL CIRC. TIME/STK.	49.3 min	9364 stk	

Field Name	Branch Name	Start Depth (mKB)	Company's Representatives	Casing		DATE:	30/Apr/2008
S1	Original Hole	20.00	Company Man	OD (in)	Depth (mKB)	RPT #:	8
Rig	Phase		Sarit R	7	2,572.00	Midnight Depth (mKB)	
GW80	8"3/4		Praisont P/ Samatthapong M	Next : 7" casing @ 2572 m.			2,578.00

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)

Bit

Bit and Core Head Inventory	Bit Dull

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)

Drillstring Assembly

Bit Run	BHA

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	08:45	Continue RIH 7" Pre-drilled casing to 2559 m.	C1	8.75
08:45	09:15	R/U and M/U 7" casing hanger. Wash down and land hanger with 50 Klbs string weight. [illegible] joints of 7" Pre-drilled casing [illegible] 7" casing. FS @ 2572 m, FC @ [illegible]	C1	0.50
09:15	09:30	R/U cement head and surface lines. Hold PJSM.	C2	0.25
09:30	10:00	Circulate & condition mud prior cement job, 40 SPM, 400 psi. Flush both mud pumps [illegible]	C2	0.50
10:00	10:15	Dowell flush line with 2 bbls of fresh water. Pressure test surface line to 3200 psi_ ok.	C2	0.25
10:15	10:30	Dowell pump 10 m3 of base oil and 10 m3 of 1.35 SG spacer.	C2	0.25
10:30	11:00	Drop bottom plug. Mix and pump 149 bbls of 12.9 SG single slurry, 5.0 bpm. Use 8.82" hole plus 10% excess for cement calculation.	C2	0.50
11:00	12:30	Dowell flush line with 2 bbls of fresh water. Drop top plug. Rig displace with 50.2 m3 of [illegible] bump plug at [illegible] strokes to 3000 psi 10 mins [illegible]	C2	1.50
12:30	12:45	Bleed off pressure - no back flow. Estimate TOC at 425 m from volumetric calculation. Cement sample unpumpable 6 hrs after mixing.	C2	0.25
12:45	13:15	R/D cement head and surface lines. Release and L/D landing string.	C2	0.50
13:15	13:45	Set pack off. Lock & pull test 10 klbs_ok. Pressure test pack-off seal to 3000 psi/ 10 min_ok.	C3	0.50
13:45	14:30	N/D BOP stack. ***Rig Release at 14:30 hrs on 30 April 2008*** Total operation time = 4.94 days (rig accept to rig release), 5.02 days (rig release to rig release)	C3	0.75
			Cum Dur ...	14.50

Summary/Remarks

Summary :
Continue RIH 7" casing to 2559 m. Wash down to land casing hanger. Perform 7" cement casing job. Install pack-off and P-test to 3000 psi_OK. Rig skid to LKU-B28 (BAD).

*** Rig release at 14:30 hrs on 30-April-2008. Total operating time 4.94 days (rig accept to rig release), 5.02 days (rig release to rig release)***

Remark
- Number of observation cards = 30
- Total skid distance = 3 m.

Mud

Mud type :
CONFI DRILL OBM

Mud Weight (sg)	ECO	Mud T (?C)
1.29		49
Initial (m?)	**Added (m?)**	**Final (m?)**
150.82		140.66
Form.Gain (m?)	**Form.Los. (m?)**	**Surf.Los. (m?)**
		9.96

YP (lbf/100ft?)	YS (lbf/100ft?)	PV	Marsh
10	12	21	65
pH	**Pm**	**Pf (mL/mL)**	**Mf (mL/mL)**
Ca++ (mg/L)	**Mg++ (mg/L)**	**K+ (mg/L)**	**NaCl (mg/L)**
KCl (mg/L)	**Sand (%)**	**Solids (Co...**	**CEC (kg/m...**
	0.0	18.2	
Filt. (mL/3...	**FC (mm)**	**HPHT Filt ...**	**HTHP FC ...**
0.0	0.0	1.8	2.0
Water (%)	**Oil (%)**	**OW**	**ES (V)**
15.6	65.2	80/20	726.0
LGS (%)	**HGS (%)**	**Lime (mg/L)**	**Cl- (mg/L)**
7.4	9.7	2.3	33,000

Mud Products

Trade Name	Units	On Loc	Used
KCl (1MT/BB)	MT	9.0	5.0
Scomi ESCAID 110	M3	427.[illegible]	[illegible]
DRILL BAR	1.5MT	21.0	3.0

Operation Summary :
Continue RIH 7" casing to 2559 m. Wash down to land casing hanger. Perform 7" cement casing job. Install pack-off and P-test to 3000 psi_OK. Rig skid to LKU-B28 (BAD).

Well status at 6:00 am :

Planned Operation :

Accidents:
199.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job meeting

Personnel

Company	Qty
PTTEP	5
GWDC (Drilling)	52
GWDC (Catering)	4
M-I SERVICE	[illegible]
I-Log	3
HALLIBURTON	6
SCOMI (Drilling fluid)	6
SCOMI [illegible]	5
SLB-Logging	0
SLB-DOWELL	6
PCS	3
SECURITY GUARD	6

Day Total	Cum To Date	Mud Total	Mud Cum To Date
	-		

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Main Stock

Supply Item Description	Unit	Receive	Used	Stock

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)
Wind Direction (?)	**P bar (mbars)**	**Current Speed (km...**	**Current Direction (?)**

Page 1 of 1

Field Name	Branch Name	Start Depth (mKB)	Company's Representatives	Casing		DATE: 29/Apr/2008
			Company Man	OD (in)	Depth (mKB)	RPT #: 5
S1	Original Hole	20.00	Sarit R	20	20.00	Midnight Depth (mKB)
Rig	Phase		Prasorn P/ Samatthapong M	Next : 7" casing @ 2572 m		2,578.00
GW80	8"3/4					

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
2						1,477.00	27.50	53.7

Bit

Bit and Core Head inventory	Bit Out
8-3/4in, FM3461Z, 11140207	0-1-WT-T-X-I-NO-TD

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)

Drillstring Assembly

Bit Run	BHA
2	DBS FM3461Z, 8 11/16" Turbo back Stab, 7" SperryDrill 7/8 - 6.0 stg 8 3/8 sleeve 1.15 AKO, 7 1/2" Motor Top Stab, 6 3/4" Float Sub, 6 1/2" NM Pony collar, 6 1/2" NM Extension Sub, 6 1/2" HOS, Crossover Sub, 1x Spiral Drill collar, Crossover Sub, 10x 5" HWDP, 6 1/2" Drilling Jar, 4x 5" HWDP (163.50 m)

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	01:00	Continue POOH 8-3/4" drilling BHA to 1920 m (ream to clear tight spot @ 1977 m, 1971 m, 1934 m)	F4	1.00
01:00	01:30	[illegible]	[illegible]	0.50
01:30	03:30	Circulate hole clean and condition mud (2 x 75 spm, 2180 psi, 70 rpm, 8 kft.lbs)	F4	2.00
03:30	[illegible]	[illegible]	[illegible]	[illegible]
09:00	11:00	Continue POOH 8-3/4" drilling BHA to surface.	F4	2.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11:30	12:00	R/U Schlumberger PEx logging tool. M/U PEx logging tool. Functon test tool and load radioactive sources.	G6	0.50
12:00	12:15	RIH PEX logging tool to 9-5/8" casing shoe.	G6	0.25
12:15	13:00	Log down from 1097 to 2577. (Logging speed ~ 6000 ft/hr)	G6	0.75
13:00	14:30	[illegible]	G6	1.50
14:30	14:45	POOH PEx logging tool from 9-5/8" casing shoe to surface. Max temperature = 101.1 degC @ 2544 mMD/1948 mVD, 27:35 hrs after EOC . Average hole size = 8.82" (one arm caliper).	G6	0.25
14:45	15:15	[illegible]	G6	0.50
15:15	15:30	M/U XPT tool and surface test.	G5	0.25
15:30	15:45	[illegible] at 100 m and 1050 m. OK.	G5	0.25
15:45	16:15	RIH XPT tool from 9-5/8" casing shoe to the first pressure test point.	G5	0.50
16:15	21:45	[illegible]	G5	5.50
21:45	22:15	POOH and L/D XPT logging tool.	G5	0.50
22:15	22:30	R/D Schlumberger equipments.	G5	0.25
22:30	23:30	R/U to run 7" casing. Hold PJSM. Retreieve wear bushing.	C1A	1.00
23:30	00:00	[illegible] casing to 142 m. Check float, OK.	C1	0.50
			Cum Dur	24.00

Summary/Remarks

Summary :
Continue POOH 8-3/4" BHA to 1920 m. RIH to 2050 m. Circulate and condition mud. Continue POOH 8-3/4" BHA to surface. L/D MWD tool and rack back BHA. Perform PEx and XPT logging. RIH 7" Pre-drill casing to 142 m.

00:00 - 06:00 hr operation
==========================
00:00 - 03:45 hrs Continue RIH 7" casing to 9-5/8" casing shoe (total pre-drilled casing 8 jts). Break circulation
03:45 - 06:00 hrs Continue RIH 7" casing to 1775 m.

Remark
- Number of observation cards = 6

Mud

Mud type			
CONFI DRILL OBM			
Mud Weight (sg)	ECD		Mud T (?C)
1.26			53
Initial (m?)	Added (m?)		Final (m?)
151.04	1.48		150.82
Form.Gain (m?)	Form.Los. (m?)		Surf.Los. (m?)
			1.70
YP (lbf/100ft?)	YS (lbf/100ft?)	PV	Marsh
11	13	19	54
pH	Pm	Pf (mL/mL)	Mf (mL/mL)
Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)
KCl (mg/L)	Sand (%)	Solids (Co...	CEC (kg/m...
	0.0	16.2	
FL (mL/3...	FC (mm)	HPHT FL ...	HTHP FC ...
0.0	0.0	1.8	2.0
Water (%)	Oil (%)	OW	ES (V)
17.1	66.7	80/20	776.0
LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)
7.3	7.8	2.6	34,000

Mud Products

Trade Name	Units	On Loc	Used
DRILL CARB F B	1 MT	5.0	2.0
[illegible]	[illegible]	[illegible]	[illegible]

Day Total	Cum To Date	Mud Total	Mud Cum To Date

Operation Summary :
Continue POOH 8-3/4" BHA to 1920 m. RIH to 2050 m. Circulate and condition mud. Continue POOH 8-3/4" BHA to surface. L/D MWD tool and rack back BHA. Perform PEx and XPT logging. RIH 7" Pre-drill casing to 142 m.

00:00 - 06:00 hr operation
Well status at 6:00 am :
Contiue RIH 7" casing SLHC 23 3 N-80 to 1775 m.

Planned Operation :
Perform 7" cement job. Rig skid to LKU-B28 (BAD)

Accidents:	Safety Drills
198.00 days without Lost Time Accident (LTA) PTTEP	Pre-Job meeting

Personnel

Company	Qty
PTTEP	5
GWDC (Drilling)	[illegible]
GWDC (Catering)	5
[illegible]	17
I-Log	4
HALLIBURTON	[illegible]
SCOMI (Drilling fluid)	6
[illegible]	[illegible]
SLB-Logging	4
[illegible]	[illegible]
PCS	3
SECURITY GUARD	[illegible]

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariable Load (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)
Wind Direction (?)	**P bar (mbars)**	**Current Speed (km...**	**Current Direction (?)**

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel Fuel	m3		3.6	18.8

SUT Central Plain 1B

Field Name	Branch Name	Start Depth (mKB)	Company's Representatives	Casing		DATE: 28/Apr/2008
S1	Original Hole	20.00	Company Man	OD (in)	Depth (mKB)	RPT #: 4
Rig	Phase		Sarit R	20	20.00	Midnight Depth (mKB)
GW80	8"3/4		Praisont P/ Samatthapong M	Next : 7" casing @ 2578 m		2,578.00

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
2	1,787.00	2,578.00	791.00	15.82	49.7	1,477.00	27.50	53.7

Bit

Bit and Core Head Inventory	Bit Dull
8 3/4in, FM3461Z, 11140207	——

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
11	78	2,153.	2,633.0	13,000

Drillstring Assembly

Bit Run	BHA
2	DBS FM3461Z, 8 11/16" Turbo back Stab, 7" SperryDrill 7/8 - 6.0 stg 8.3/8 sleeve 1.15 AKO, 7 1/2" Motor Top Stab, 6 3/4" Float Sub, 6 1/2" NM Pony collar, 6 1/2" NM Extension Sub, 6 1/2" HOS, Crossover Sub, 1x Spiral Drill collar, Crossover Sub, 10x 5" HWDP, 6 1/2" Drilling Jar, 4x 5" HWDP (163.50 m)

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	13:00	Continue drilling 8-3/4" hole from 1787 m. to 2555 m. BHCT 93.8 deg C @ 2535.3 mMD/ 2001.6 mMV. Gas peak 1.96%@ 1804 m, 1.55%@ 1831 m, 2.89%@ 1937.50 m, 1.64%@ 2260.50 m, 2.87%@ 2490.5 m, 2.26%@ 2502.5 m, 1.86%@ 2533 m, 1.85%@ 2549.5 m. Background gas 0.30% Drilling parameter: Slide: WOB = 8-12 klbs, 2300 lpm, 2200 psi Rotate: WOB = 15-18 klbs, 2200 lpm, 2600 psi, 90 rpm, torque = 12-15 kft-lbs Slide: 85.5 m/ 1.82 hrs - Avg. ROP = 46.9 m/hr Rotate: 705.5 m/ 8.13 hrs - Avg. ROP = 86.7 m/hr. Top of MS @ 2080 mMD/ 1643 mVD, LKU-K @ 2260 mMD/ 1783 mVD	F1	13.00
13:00	14:30	Take survey at TD, including Directional survey	F7	1.50
14:30	15:15	Circulate hole clean and observe gas peak.	F7	0.75
15:15	16:00	Continue drilling 8-3/4" hole from 2555 m. to 2578 m. BHCT 93.8 deg C @ 2564 mMD/ 2026 mVD. Drilling parameter: Rotate: WOB = 15-18 klbs, 2200 lpm, 2600 psi, 90 rpm, torque = 12-15 kft-lbs	F1	0.75
16:00	18:15	Circulate hole clean. Flow check_hole static	F4	2.25
18:15	20:30	POOH 8-3/4" drilling BHA (wet pipe) from 2578 m to 2375 m (7 stds). Pump slug 5 m3 / 1.55 sg (Ream to clear tight spot @ 2527 m, 2485 m, 2484 m, 2440 m)	F4	2.25
20:30	00:00	Continue POOH 8-3/4" drilling BHA to 1973 m. (Ream to clear tight spot @ 2358 m, 2352 m, 2288 m, 2257 m, 2209 m, 2018 m, 2006 m,1990 m)	F4	3.50
			Cum Dur ..	24.00

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method
2,276.50	38.70	278.78	MWD
2,305.30	40.93	279.82	MWD
2,334.00	40.25	279.94	MWD
2,362.70	39.00	279.37	MWD
2,391.50	37.70	279.96	MWD
2,420.30	36.78	278.68	MWD
2,449.00	35.41	277.74	MWD
2,477.80	33.47	278.33	MWD
2,506.50	32.37	278.07	MWD
2,535.30	31.99	278.19	MWD
2,564.00	31.50	278.37	MWD

Summary/Remarks

Summary :
Continue drilling 8-3/4" hole section to TD @ 2578 m.
Circulate hole clean. Flow check. POOH 8-3/4" BHA and ream to clear tight spot .

00:00 - 06:00 hr operation
==========================
00:00 - 01:00 hrs Continue POOH 8-3/4" drilling BHA to 1920 m. Ream to clear tight spot @ 1977 m, 1971 m, 1934 m.
01:00 - 01:30 hrs RIH 8-3/4" drilling BHA from 1920 m. to 2050 m.
01:30 - 03:30 hrs Circulate hole clean and condition mud
03:30 - 06:00 hrs POOH 8-3/4 drilling BHA to 1773 m. Ream to clear tight spot @ 1917 m, 1907 m, 1824 m, 1794 m.

Remark
- Number of observation cards = 23

Mud

Mud type			
CONFI DRILL OBM			
Mud Weight (sg)	ECD		Mud T (?C)
1.25			62
Initial (m?)	Added (m?)		Final (m?)
152.54	28.70		151.04
Form.Gain (m?)	Form.Los. (m?)		Surf.Los. (m?)
			30.20
YP (lb/100ft?)	YS (lb/100ft?)	PV	Marsh
11	13	19	50
pH	Pm	Pf (mL/mL)	Mf (mL/mL)
Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)
KCl (mg/L)	Sand (%)	Solids (Co...	CEC (kg/m...
	0.0	16.0	
Filt. (mL/3...	FC (mm)	HPHT Filt ...	HTHP FC ...
0.0	0.0	1.8	2.0
Water (%)	Oil (%)	OW	ES (V)
17.1	67.0	80/20	769.0
LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)
7.0	7.6	2.6	34,000

Mud Products

Trade Name	Units	On Loc	Used
DRILL BAR	1.5MT	20.0	9.0
CONFI GEL	25 kg/sk	[illegible]	[illegible]
LIME	25 kg/sk	160.0	40.0
CaCl2	25 kg/sk	120.0	[illegible]
CONFI TROL F	208 l/ drm	2.0	2.0
CONFI MUL P	208 l/drm	15.0	[illegible]
CONFI TROL	25 kg/sk	80.0	60.0
DRILL CARB M B	1 MT	[illegible]	[illegible]
DRILL CARB F B	1 MT	7.0	2.0
Bowl ESCAID 110	M3	[illegible]	[illegible]

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel Fuel	m3	16.0	9.0	22.4

Day Total	Cum To Date	Mud Total	Mud Cum To Date

Operation Summary :
Continue drilling 8-3/4" hole section to TD @ 2578 m. Circulate hole clean. Flow check. POOH 8-3/4" BHA and ream to clear tight spot .

Well status at 6:00 am :
POOH 8-3/4" BHA to 1773 m.

Planned Operation :
Perform PEx and XPT logging

Accidents:
197.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job meeting

Personnel

Company	Qty
PTTEP	5
GWDC (Drilling)	50
GWDC (Catering)	5
MI SERVICE	[illegible]
I-Log	4
HALLIBURTON	0
SCOMI (Drilling fluid)	5
SCOMI (DOWN)	5
SLB-Logging	4
SLB-OCWELL	6
PCS	3
SECURITY GUARD	6

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periods (Sec)	Wave Direction	Wind Speed (Knot)
Wind Direction (?)	**P bar (mbars)**	**Current Speed (km...**	**Current Direction (?)**

SUT Central Plain 1B

Field Name		Company's Representatives	Casing	DATE: 27/Apr/2008
S1				RPT #: 3
			Next : 7" casing @ 2,577 m.	

Penetration	Bit	Parameters

Drillstring Assembly

Survey Data

Mud

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
12:15	12:30	Drill out float equipment, WOB 2-8 klbs, 2x75 SPM, 200 psi, 70 rpm, 3-5 kft-lb.	C4	0.25
[redacted]				
22:45	00:00	Including directional survey.	F7	1.25

Summary/Remarks

Summary :
RIH 9-5/8" casing. Perform 9-5/8" cement job. R/D flow riser, N/U BOP. P-test BOP. M/U 8-3/4" BHA and RIH to TOC. Drill out float shoe and continue drilling 8-3/4" hole section to 1,787 m.

00:00 - 06:00 hr operation
========================
00:00 - 06:00 hrs Continue drilling 8-3/4" hole from 1,787 m. to 2,133 m.

Remark
- Number of observation cards = 0
- Perform cement top job 15 bbls, 13 ppg

Mud Products

Operation Summary :
RIH 9-5/8" casing. Perform 9-5/8" cement job. R/D flow riser, N/U BOP. P-test BOP. M/U 8-3/4" BHA and RIH to TOC. Drill out float shoe and continue drilling 8-3/4" hole section to 1,787 m.

00:00 - 06:00 hr operation
Well status at 6:00 am :
Drill 8-3/4" hole section to 2,133 m.

Planned Operation :
Continue drilling 8-3/4" hole to TD. Circulate hole clean and POOH. Perform PEx and XPT logging

Accidents:
196.00 days without Lost Time Accident (LTA) PTTEP

Personnel

Supply Boats

Standby Boat

Variable Load

Weather Conditions

Main Stock

Field Name	Branch Name	Start Depth (mKB)	Company's Representatives	Casing		DATE:	27/Apr/2008
S1	Original Hole	20.00	Company Man	OD (in)	Depth (mKB)	RPT #:	3
Rig	Phase		Sarit R	20	20.00	Midnight Depth (mKB)	
GW80	8 3/4		Praisont P/ Samatthapong M	Next : 7" casing @ 2,577 m.		1,787.00	

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
2	1,101.00	1,787.00	686.00	11.58	59.2	686.00	11.58	59.2

Bit

Bit and Core Head Inventory	Bit Dull
8 3/4in, FM3461Z, 11140207	——

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
10	77	2,183.	2,363.0	8,000

Drillstring Assembly

Bit Run	BHA
2	DBS FM3461Z, 8 11/16" Turbo back Stab, 7" SperryDrill 7/8 - 6.0 stg 8 3/8 sleeve 1.15 AKO, 7 1/2" Motor Top Stab, 6 3/4" Float Sub, 6 1/2" NM Pony collar, 6 1/2" NM Extension Sub, 6 1/2" HOS, Crossover Sub, 1x Spiral Drill collar, Crossover Sub, 10x 5" HWDP, 6 1/2" Drilling Jar, 4x 5" HWDP (163.50 m)

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	00:30	Continue RIH 9 5/8" casing to 1,083 m.	C1	0.50
00:30	01:15	R/U wellhead and landing joint. [illegible] and land wellhead with 60 klbs string weight. Total run 90 joints of 9-5/8" casing 36#, K-55, BTC, R3. Float shoe @ 1,096 m and float collar @ 1,095 m.	C1	0.75
01:15	01:45	R/U cement head and lines. Break circulation meanwhile hold PJSM.	C2	0.50
01:45	02:00	Dowell flush line with 3 bbls of fresh water. Pressure test line to 3,200 psi - ok. Dowell pump 3 bbls of fresh water spacer. Drop bottom plug.	C2	0.25
02:00	02:15	Dowell mix and pump 12 bbls of 1.38 SG lead slurry.	C2	0.25
02:15	03:15	[illegible]	[illegible]	1.00
03:15	04:00	Continue to pump total 239.7 bbls (8.5 bpm) of 1.38 SG lead slurry and 40.6 bbls (8.5 bpm) of 1.56 SG tail slurry. Use 12.8" hole plus 10% excess for cement calculation.	C2	0.75
04:00	04:45	Dowell flush line with 2 bbl of fresh water. Drop top plug and displace cement with 277.7 bbls (44.16 m3) of 1.25 SG OBM. [illegible] Pump 1.9 m3 of contaminated cement. [illegible]	C2	0.75
04:45	05:15	Pressure test casing to 3,000 psi/ 10 min - ok. Bleed off pressure - no back flow, R/D cement head. L/D landing joint. Cement sample unpumpable 4 hrs after mixing.	C2	0.50
05:15	06:00	R/D 20" flow riser. Install wellhead side outlets.	C3	0.75
06:00	07:30	N/U BOP.	C3	1.50
07:30	08:00	RIH CTT. Pressure test pipe ram to 500/3,000 psi annular preventer to 500/1,500 psi. POOH and L/D CTT.	C3	0.50
08:00	08:15	N/U Bell Nipple. Install wear bushing.	C3	0.25
08:15	09:45	M/U 8 3/4" BHA, install MWD probe. Shallow test MWD - ok. Change motor top stab from 7-1/4" to 7-1/2" to prevent BHA from [illegible].	F2C	1.50
09:45	12:00	RIH 8 3/4" BHA (in stand) and wash down last stand to tag TOC at 1,095 m.	F2B	2.25
12:00	12:15	Perform kick drill. Take SCR	F3	0.25
			Time Log:	24.00

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method
1,443.00	41.27	274.27	MWD
1,471.80	41.70	274.62	MWD
1,500.50	41.73	274.81	MWD
1,529.30	41.47	274.83	MWD
1,558.00	40.76	274.61	MWD
1,586.80	41.85	272.66	MWD
1,615.50	41.12	272.82	MWD
1,644.30	40.71	272.88	MWD
1,673.10	40.49	272.59	MWD
1,701.90	40.27	272.15	MWD
1,759.40	41.83	276.00	MWD

Summary/Remarks

Summary :
RIH 9-5/8" casing. Perform 9-5/8" cement job. R/D flow riser, N/U BOP. P-test BOP. M/U 8-3/4" BHA and RIH to TOC. Drill out float shoe and continue drilling 8-3/4" hole section to 1,787 m.

00:00 - 06:00 hr operation
========================
00:00 - 06:00 hrs Continue drilling 8-3/4" hole from 1,787 m. to 2,133 m.

Remark
- Number of observation cards = 0
- Perform cement top job 15 bbls, 13 ppg

Mud

Mud type: CONFI DRILL OBM			
Mud Weight (sg): 1.25	ECD:		Mud T (?C): 58
Initial (m?): 135.69	Added (m?): 36.45		Final (m?): 152.54
Form Gain (m?):	Form.Los. (m?):		Surf.Los. (m?): 21.60
YP (lbf/100ft?): 13	YS (lbf/100ft?): 13	PV: 18	Marsh: 53
pH:	Pm:	Pf (mL/mL):	Mf (mL/mL):
Ca++ (mg/L):	Mg++ (mg/L):	K+ (mg/L):	NaCl (mg/L):
KCl (mg/L):	Sand (%): 0.0	Solids (Co...: 16.0	CEC (kg/m...:
Filt. (mL/3...: 0.0	FC (mm): 0.0	HPHT Filt...: 2.0	HTHP FC ...: 2.0
Water (%): 17.5	Oil (%): 66.5	OW: 79/21	ES (V): 758.0
LGS (%): 7.1	HGS (%): 7.7	Lime (mg/L): 2.6	Cl- (mg/L): 34,000

Mud Products

Trade Name	Units	On Loc	Used
CaCl2	25 kg/sk	180.0	100.0
LIME	25 kg/sk	200.0	40.0
CONFI GEL	25 kg/sk	106.0	14.0
CONFI TROL F	208 l/drm	[illegible]	2.0
CONFI MUL P	208 l/drm	20.0	6.0
CONFI TROL	25 kg/sk	140.0	20.0
CONFI MOD	208 l/drm	5.0	2.0
DRILL CARB F B	1 MT	9.0	2.0
DRILL CARB M B	1 MT	9.0	2.0
Scomi ESCAID 110	M3	[illegible]	[illegible]
DRILL BAR	1.5MT	29.0	6.0

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel Fuel	m3		3.6	15.4

Operation Summary :
RIH 9-5/8" casing. Perform 9-5/8" cement job. R/D flow riser, N/U BOP. P-test BOP. M/U 8-3/4" BHA and RIH to TOC. Drill out float shoe and continue drilling 8-3/4" hole section to 1,787 m.

00:00 - 06:00 hr operation
Well status at 6:00 am :
Drill 8-3/4" hole section to 2,133 m.

Planned Operation :
Continue drilling 8-3/4" hole to TD. Circulate hole clean and POOH. Perform PEx and XPT logging

Accidents:	Safety Drills
196.00 days without Lost Time Accident (LTA) PTTEP	Pre-Job Meeting

Personnel

Company	Qty
GWDC (Catering)	5
GWDC (Drilling)	48
HALLIBURTON	6
[illegible]	4
M.T. SERVICE	18
PCS	3
PTTEP	5
SCOMI (Drilling fluid)	5
SCOMI (DWM)	15
SECURITY GUARD	6
SLB-DOWEL	6
SLB-Logging	0

Day Total	Cum To Date	Mud Total	Mud Cum To Date

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)

Wind Direction (?)	P bar (mbars)	Current Speed (kn...	Current Direction (?)

SUT Central Plain 1A

Field Name		Company's Representatives	Casing	DATE:	26/Apr/2008
S1				RPT #:	2
			Next : 9 5/8" casing @1096 m		

Penetration

Bit

Parameters

Drillstring Assembly

Survey Data

Mud

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
16:30	00:00	P/U and M/U shoe joint, check float_ok. RIH with 9 5/8" casing to 988 m, wash down through tight spot @744 m, 754 m, 773 m, 818 m, 824 m, 830 m. 00:00 - 06:00 hr operation ========== 00:00 - 00:30 hrs Continue RIH 9 5/8" casing to 1,083 m. 00:30 - 01:15 hrs M/U wellhead c/w landing joint. Wash down and land wellhead with 60 kips landing weight. Total run: 90 joints of 9-5/8" casing, 36#, K-55, BTC, R3. Float shoe at 1096 m and float collar at 1095 m. 01:15 - 01:45 hrs R/U cement head and lines. Break circulation meanwhile hold PJSM. 01:45 - 02:00 hrs Dowell flush line with 2 bbls of fresh water. Pressure test line to 3200 psi - ok. Dowell pump 3 bbls of fresh water spacer. Drop bottom plug. 02:00 - 02:15 hrs Dowell mix and pump 12 bbls of 1.38 SG lead slurry. 02:15 - 03:15 hrs Observe cement density drop and unable to increase. Check knife valve and lines on cement unit. Found foam inside mixing lines. Clean and clear foam_ok. 03:15 - 04:00 hrs Continue to pump total 239.7 bbls (8.5 bpm) of 1.38 SG lead slurry and 40.6 bbls (8.5 bpm) of 1.56 SG tail slurry. Use 12.8" hole plus 10% excess for cement calculation. 04:00 - 04:45 hrs Dowell flush line with 2 bbl of fresh water. Drop top plug. Rig displace cement with 277.7 bbls (44.16 m3) of 1.25 SG OBM. Bump plug at 2985 stroke (97% MP eff). CIP 4:38 hr. Dump 1.9 m3 of contaminate cement. Expect TOC on surface. 04:45 - 05:15 hrs Pressure test casing to 3000 psi/ 10 min - ok. Bleed off pressure - no back flow. R/D cement head. L/D landing joint. Cement sample unpumpable 4 hrs after mixing. 05:15 - 06:00 hrs R/D 20" flow riser. Install wellhead side outlets.	C1	7.50

Summary/Remarks

Summary :
Drill 12 1/4" hole to TD - Back ream out of hole - R/U and RIH 9 5/8" casing

Remark
- Number of observation cards = 19

Mud Products

Main Stock

Operation Summary :
Drill 12 1/4" hole to TD - Back ream out of hole - R/U and RIH 9 5/8" casing

Personnel

Supply Boats

Standby Boat

Variable Load

Well status at 6:00 am :
Install side outlets - N/U BOP

Planned Operation :
RIH 8 3/4" BHA - Drill out cement - Drill 8 3/4" hole to TD

Accidents:
195.00 days without Lost Time Accident (LTA) PTTEP

Weather Conditions

SUT Central Plain 1A

Field Name	Branch Name	Start Depth (mKB)
S1	Original Hole	20.00

Rig	Phase
GW80	12"1/4

Company's Representatives

Company Man
Sarit R
Praisoont P/ Samatthapong M

Casing

OD (in)	Depth (mKB)
20	20.00

Next : 9 5/8" casing @1086 m

DATE: 26/Apr/2006
RPT #: 2
Midnight Depth (mKB): 1,101.00

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
1R	411.00	1,101.00	690.00	10.00	69.0	1,081.00	14.00	77.2

Bit

Bit and Core Head Inventory	Bit Dull
12 1/4in, DSX419S-E5, 218668	1-2-WT-A-X-I-ER-TD

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
15	90	3,500	2,200.0	12,000

Drillstring Assembly

Bit Run	BHA
1R	Hycalog DSX419S-E5, 9 5/8" Sperry Drill Lobe 12 1/8 sleeve 1.15 AKO, 10-1/2" Motor Top Stabilizer, 8" Float Sub, 8" NM Pony Collar, 8" NM HOS, X/O, 10 x 5" HWDP, 6 1/2" Jar, 4 x 5" HWDP (154.31 m)

Survey Data

MD (mKB)	Incl (°)	Azm (°)	Method
800.70	43.17	249.64	MWD
859.20	44.79	248.81	MWD
915.90	44.28	251.33	MWD
973.40	42.44	252.29	MWD
1,030.90	42.16	254.64	MWD
1,084.90	41.27	255.19	MWD

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
00:00	08:45	Continue drilling 12-1/4" hole from 411 m to 1,101 m/905 mVD (TD). BHCT = 53.8 degC @1,084.9 mMD/ 892.9 mVD. Dump sand trap @ 499 m (34% sand), 586 m (30% sand), 729 m (28% sand), 844 m (30% sand), 960 m (30% sand), 1074 m (25% sand). Drilling parameter: Slide: WOB = 10-12 klbs, 3500 lpm, 2100 psi Rotate: WOB = 12-15 klbs, 3500 lpm, 2200 psi, 90 rpm, torque = 8-12 kft-lbs Slide: 196.5/ 2.52 hrs - Avg. ROP = 77.9 m/hr Rotate: 493 m/ 3.45 hrs - Avg. ROP = 142.8 m/hr	F1	8.75
08:45	10:00	[illegible]	[illegible]	[illegible]
10:00	15:30	Back ream out of hole from TD to BHA, 2 x 95 spm, 1600 psi, 70 rpm, 5-8 kft-lb. Dump sand trap at 929 m (25% sand), 884 m (20% sand), 469 m (18% sand), and 237 m (15% sand).	F2A	5.50
15:30	16:00	[illegible]	[illegible]	[illegible]
16:00	16:30	Hold PJSM. R/U 9 5/8" casing equipment.	C1A	0.50

Time Log... 24.00

Summary/Remarks

Summary :
Drill 12 1/4" hole to TD - Back ream out of hole - R/U and RIH 9 5/8" casing

Remark
- Number of observation cards = 19

Mud

Mud type: Fresh Water

Mud Weight (sg)	ECD	Mud T (°C)
1.14		43

Initial (m³)	Added (m³)	Final (m³)
145.63	153.81	133.00

Form.Gain (m³)	Form.Loss (m³)	Surf.Loc. (m³)
		166.64

YP (lb/100ft²)	YS (lb/100ft²)	PV	Marsh
9	8	7	37

pH	Pm	Pf (mL/mL)	Mf (mL/mL)

Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)

KCl (mg/L)	Sand (%)	Solids (Ca...	OEC (kg/m...
	0.9	6.0	

Fil. (mL/3...	FC (mm)	HPHT Fil ...	HTHP FC ...

Water (%)	Oil (%)	OW	ES (V)
94.0			

LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)

Mud Products

Trade Name	Units	On Loc	Used
DRILL GEL	50 kg/sk	100.0	40.0

Operation Summary :
Drill 12 1/4" hole to TD - Back ream out of hole - R/U and RIH 9 5/8" casing

Well status at 6:00 am :
Install side outlets - N/U BOP

Planned Operation :
RIH 8 3/4" BHA - Drill out cement - Drill 8 3/4" hole to TD

Accidents:
195.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job Meeting

Personnel

Company	Qty
GWDC (Catering)	5
HALLIBURTON	6
M.T. SERVICE	18
PTTEP	5
SCOMI (DWM)	15
SLB-DOWEL	6

Day Total	Cum To Date	Mud Total	Mud Cum To Date

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)
Wind Direction (°)	P bar (mbars)	Current Speed (kn...	Current Direction (°)

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel Fuel	m3		7.2	19.0

SUT Central Plain 1A

Field Name	Branch Name	Start Depth (mKB)	Company's Representatives	Casing OD (in)	Casing Depth (mKB)	DATE: 25/Apr/2008
S1	Original Hole	20.00	Company Man: Sarit R	20	20.00	RPT #: 1
Rig	Phase		Praisorn P/ Samatthapong M	Next : 9 5/8" casing @1,098 m		Midnight Depth (mKB): 411.00
GW80	12"1/4					

Penetration

Bit Run	Start (mKB)	End (mKB)	Interval (m)	Time (hrs)	ROP (m/hr)	Cum Depth (m)	Cum Time (hrs)	Tot ROP (m/hr)
1R	20.00	411.00	391.00	4.00	97.8	391.00	4.00	97.8

Bit

Bit and Core Head Inventory	Bit Out
12 1/4in, DSX419S-E5, 218658	----

Parameters

WOB (1000lbf)	RPM (rpm)	Flow (L/min)	SPP (psi)	On Btm (ft-lbs)
18	90	3,500	1,700.0	9,000

Drillstring Assembly

Bit Run	BHA
1R	Hycalog DSX419S-E5, 9 5/8" Sperry Drill Lobe 12 1/8 sleeve 1.15 AKO, 10-1/2" Motor Top Stabilizer, 8" Float Sub, 8" NM Pony Collar, 8" NM HOS, X/O, 10 x 5" HWDP, 6 1/2" Jar, 4 x 5" HWDP (154.31 m)

Time Log

Start Time	End Time	Comment	Code	Dur (hrs)
14:00	15:00	Prepare to skid rig. Skid rig from LKU-B26 (BAB) to LKU-B27 (BAC) - 3 m skidding.	A1B	1.00
15:00	16:00	Connect service lines. Install flow line & cement line. R/U drilling equipment.	A1K	1.00
16:00	16:45	Install flow riser. Install mouse hole. *** Rig accept at 16:00 hrs, 25 April 2008, Total rig skidding time = 0.08 day (2 hrs) ***	F10	0.75
16:45	20:00	Pressure test surface lines to [illegible] psi. [illegible] M/U 12 1/4" BHA. Install MWD probe. [illegible]	F20	3.25
20:00	23:30	Drilling 12-1/4" hole from surface to 411 m/385 mVD. BHCT = 39.8 degC @ 398 mMD/ 384 mVD. Dump sand trap @ 183 m (35% sand), 356 m (32% sand). Drilling parameter: Slide: WOB = 10-12 klbs, 3500 lpm, 1700 psi Rotate: WOB = 12-18 klbs, 3500 lpm, 1700 psi, 90 rpm, torque = 6-9 kft-lbs Slide: 226/ 1.53 hrs - Avg. ROP = 148 m/hr Rotate: 165.5 m/ 0.67 hrs - Avg. ROP = 247.8 m/hr	F1	3.50
23:30	00:00	Including directional survey.	F2	0.50

Time Log... 10.00

Survey Data

MD (mKB)	Incl (?)	Azm (?)	Method
84.70	0.44	188.04	MWD
112.10	3.55	241.22	MWD
139.50	7.43	235.84	MWD
168.30	9.37	227.22	MWD
197.00	11.47	224.57	MWD
254.60	17.19	230.73	MWD
283.20	19.40	239.83	MWD
311.90	20.84	243.25	MWD
340.70	23.48	243.81	MWD
369.50	26.31	249.13	MWD

Summary/Remarks

Summary :
Prepare and skid rig to LKU-B27(BAC) - R/U drilling equipment - N/U flow riser - M/U 12 1/4" BHA - Drill 12 1/4" hole

00:00 - 06:00 hr operation
****
00:00 - 06:00 hrs Continue drilling 12 1/4" hole from 411 m to 821 m.

Remark
-Number of observation cards = 8

Mud

Mud type: Fresh Water			
Mud Weight (sg): 1.12	ECD		Mud T (?C): 32
Initial (m?): 0.00	Added (m?): 174.33		Final (m?): 145.83
Form.Gain (m?)	Form.Los. (m?)		Surf.Los. (m?): 28.50
YP (lbf/100ft?): 6	YS (lbf/100ft?): 2	PV: 4	Marsh: 32
pH	Pm	Pf (mL/mL)	Mf (mL/mL)
Ca++ (mg/L)	Mg++ (mg/L)	K+ (mg/L)	NaCl (mg/L)
KCl (mg/L)	Sand (%): 0.4	Solids (Co...: 3.0	CEC (kg/m...)
Filt. (mL/3...	FC (mm)	HPHT Fil...	HTHP FC ...
Water (%): 97.0	Oil (%)	OW	ES (V)
LGS (%)	HGS (%)	Lime (mg/L)	Cl- (mg/L)

Mud Products

Trade Name	Units	On Loc	Used
DRILL GEL	50 kg/sk	140.0	20.0

Day Total	Cum To Date	Mud Total	Mud Cum To Date

Operation Summary :
Prepare and skid rig to LKU-B27(BAC) - R/U drilling equipment - N/U flow riser - M/U 12 1/4" BHA - Drill 12 1/4" hole

Well status at 6:00 am :
Drill 12 1/4" hole

Planned Operation :
Drill 12 1/4" hole to TD - Back ream out of hole - Run and cement 9 5/8" casing

Accidents:
194.00 days without Lost Time Accident (LTA) PTTEP

Safety Drills
Pre-Job Meeting

Personnel

Company	Qty
GWDC (Catering)	5
GWDC (Drilling)	[illegible]
HALLIBURTON	6
[illegible]	[illegible]
M.T. SERVICE	18
[illegible]	3
PTTEP	5
SCOMI (Drilling fluid)	[illegible]
SCOMI (DWM)	15
SECURITY GUARD	6
SLB-DOWEL	6
SLB-Logging	[illegible]

Supply Boats

Vessel Name	Arrival Date	Depart

Standby Boat

Vessel Name

Variable Load

MaxVariableLoad (1000lbf)

Weather Conditions

Wave Height (m)	Wave Periode (Sec)	Wave Direction	Wind Speed (Knot)
Wind Direction (?)	**P bar (mbars)**	**Current Speed (kn...**	**Current Direction (?)**

Main Stock

Supply Item Description	Unit	Receive	Used	Stock
Diesel Fuel	m3	16.0	3.8	26.2

DAILY MUD REPORT

Rig Name	SUT Central	Date	30-Apr-08	Fluids Engineer	B.D.Kebkrai / Sahadhanapol P.	Depth (m)	2578.0
Well Name & No		Report No.	6	Solid Control	Winai / Boonriab	Depth-TVD (m)	2037.9
Field		Formation	Sand / Clay	Head Quarters	Bangkok	Bit Depth (m)	0.0
Block	Plain 1B	Warehouse	Lan Krabue	Operator Rep	Mr. Sarit / Mr. Praisont	Spud Date	25-Apr-08
Offshore Area				Contractor Rep	Han Min Jiu	Hole Section (in)	

Present Activity	Completed	Surface	9 5/8	1096	Hole Volume		M³
Bit Size(inch)		Production	7	2572	Active pits		0.00 M³
Drill Pipe Size(inch)					Reserve		135.06 M³
Drill Collar(inch)					Sandtrap+Trip Tank+Surface lines		0.00 M³
HWDP					Total Volume		135.06 M³

Pump Size (inch)	5.75	Strk Length	12	Opposite DP in OH			meter/min
Pump Make	BOMCO-F1600			Opposite DC in OH			meter/min
Liter/Stroke (97%)	14.8590			Opposite DP in Cased Hole			meter/min
Strokes/Minute				Circulating Pressure			psi
M³ / Minute	0.000			Bottoms Up Strokes	0	Bottoms Up Minutes	
				Surface to surface Strokes	52	Cycle time Minutes	

Sample From:			B/U		PRODUCT	UNIT SIZE	STOCK	REC'D	USED	BACK'D	BAL	COST
Time Sample Taken	24 hrs		R 09:55	D	DRILL GEL	50 kg/sx	100				100	
Sample Temperature	deg C		I 49	O	HYDRO PAC R	25 kg/sx						
Depth	mdrs		H 2578	W	XC-BED	25 kg/sx	37				37	
Weight	S.G	1-25	1.285	E	GUAR GUM	25 kg/sx						
Funnel Viscosity	sec/qt	55-70	7" 65	L	KCL (1 MT/BB)	1 MT	4	10	6		9	
Plastic Viscosity	cps	15-25	21	L	KCL (50 kg/sx)	50 kg/sx						
Yield Point	lb/100 sq.ft	10-20	C 10		Calcium Chloride	25 kg/sx	120	120			240	
Gel Strength (10sec/10min)	cps	20-30	A 12/23	C	DRILL CARB M (25 kg	25 kg/sx						
HT-HP (500 psi,121°C)	ml	2-3	S 2.0	E	DRILL CARB F (25 kg	25 kg/sx						
HP-HT Cake Thickness	32nd in.		I 2	M	LIME	25 kg/sx	160				160	
Electrical Stability (ESV)	Volt	>600	N 726	E	CONFI GEL	25 kg/sx	101				101	
Pom	ml		G 1.8	N	CONFI GEL HT	25 kg/sx						
AgNo3	ml		3.30	T	CONFI MUL P	208 ltr/drm	15				15	
Excess Lime	ppb		2.34		CONFI MUL S	208 ltr/drm						
CaCl2	% by Wt.	20-22	23.7	J	CONFI TROL F	208 ltr/drm	2	4			6	
Water Phase Chlorides	mg/ltr		184,198	O	CONFI TROL	25 kg/sx	80	80			160	
Sand Content	% by Vol.	<0.5%	tr	B	CONFI TROL HT	25 kg/sx						
Water Content	% by Vol.		16.6		CONFI TROL XHT	25 kg/sx	42				42	
Oil Content	% by Vol.		65.2		CONFI MOD	208 ltr/drm	5				5	
Uncorrected Solid Content	% by Vol.		18.2		DRILL CARB F (BB)	1 MT	5				5	
Corrected Solid Content	% by Vol.		17.1		DRILL CARB M (BB)	1 MT	6				6	
Corrected Water content.	% by Vol.		17.7		SCOMI-ESCAID 110	Cubic Meter	129.41		1.59		127.82	
Oil Water Ratio		80/20	80/20		DRILL BAR	1.5 MT	28	4	3		21	
Water Activity (Aw)	Fraction		0.775		DRILL CARB C (BB)	1 MT	5				5	
Solid Analysis					0	1 mt						
High Gravity Solids	% by Vol		9.7									
High Gravity Solids	kg/m³		407.1									
Low Gravity Solids	% by Vol	<8	7.4									
Low Gravity Solids	kg/m3	8-10	176.0									
6 RPM READING			6									

Time		09:55	Hole Drilled (m3)		
600 RPM		52	Cuttings Discharged (MT)		
300 RPM		31	Barite Discharge (MT)		
200 RPM		22	SOC (% by weight)		
100 RPM		14	Synthetic discharge (MT)		
6 RPM		6	BIT DATA	Daily Eng Service	Daily Mud Chemicals Cost
3 RPM		5	Made	Previous Eng Service	Previous Mud Chemicals Cost
			Type	CUM ENG SERVICE	Cumulative Mud Chemicals Cost
			Jet		Debit well
					Credit well with SDF
					TOTAL MUD COST

SOLID CONTROL EQUIPMENT INFORMATION			
	Sizes	Hours	Lost (M³)
Shakers #1	200x170x170 MESH API PMD	12.0	
Shakers #2	200x170x170 MESH API PMD	4.0	
Shakers #3	200x170x170 MESH API PMD		
Shakers #4			
Centrifuges 1	LW355-1250N		
Centrifuges 2	DE-7200		

Vol Addition	Daily (M³)	Cummulative (M³)
Mud		135.69
Water		5.00
Base Oil		47.17
Chemicals		11.11
Barite		5.35
TOTAL	0.00	68.63

Losses	Daily	Cummulative (M³)
Shakers		36.80
Centrifuge		15.70
Evaporation		0.50
Surface	9.96	10.46
Left in hole	5.80	5.80
Formation lost		0.00
Total	15.76	69.26

Continued to RIH 7" Casing to 9 5/8" shoe; Circulated at 9 5/8" Casing shoe to break the gel; Continued RIH to 2572m (shoe), set float coller at 2444m, (2444 m to 2572 m perforated 7" Casing); Circulated B/U prior to cementation; R/U Dowell cement head; Dowell performed cementation job as per plan; Rig was released form LKU-B27 (BAC) at 14:30 hrs.

During 7" Casing Lowerring dumped and cleaned Pit-3B, Trip Tank; Prepared 71.28 m3 of 1.05 KCL Brine; The cement slurry was displaced with 50.2 m2 1.05 KCL brine as per plan; Total 4.5 MT BARITE and 1.59 m3 Base oil was used by Dowell Schlumberger for 7" cementation job; Cement slurry was displaced with 50.2 m3 1.05 SG KCL brine; During cementation job there was no loss but during cement slurry displacement dumped 2.3 m3 Spacer contaminated OBM (ESV < 100) and 5.8 m3 mud was left below the F/C; During cleaning Sand trap, Pit-2B, 3A, 3B and Tript ank total 7.6 m3 solid sediment was dumped; Backload 51.99 m3 OBM to SCOMI Yard; OBM 83.07 m3 left in pits at location; Total 135.06 m3 OBM will carry forward to the next Well.

DAILY MUD REPORT

Rig Name	SUT Central	Date	29-Apr-08	Fluids Engineer	B.D.Kabiraj / Sahadhanapol P.	Depth (m)	2578.0
Well Name & No		Report No.	5	Solid Control	Winai / Boonrlab	Depth-TVD (m)	2037.9
Field		Formation	Sand / Clay	Head Quarters	Bangkok	Bit Depth (m)	0.0
Block	Plain 1B	Warehouse	Lan Krabue	Operator Rep	Mr. Sarit / Mr. Praisont	Spud Date	25-Apr-08
Offshore Area				Contractor Rep	Han Min Jiu	Hole Section (in)	8 3/4

Present Activity	RIH 7" Casing	Surface	9 5/8	1098	Hole Volume		101.74 m^3
Bit Size(inch)		Production			Active pits		33.96 m^3
Drill Pipe Size(inch)					Reserve		5.17 m^3
Drill Collar(inch)					Sandtrap+Trip Tank+Surface lines		9.95 m^3
HWDP					Total Volume		150.82 m^3

Pump Size (inch)	5.75	Strk Length	12	Opposite DP in OH	0.00		meter/min
Pump Make	BOMCO-F1600			Opposite DC in OH	0.00		meter/min
Liter/Stroke (97%)	14.8590			Opposite DP in Cased Hole	0.00		meter/min
Strokes/Minute				Circulating Pressure			psi
m^3 / Minute	0.000			Bottoms Up Strokes	0	Bottoms Up Minutes	
				Surface to surface Strokes	52	Cycle time Minutes	

Sample From:			ACTIVE			PRODUCT	UNIT SIZE	STOCK	REC'D	USED	BACK'D	BAL	COST
Time Sample Taken	24 hrs		03:15	P	S	DRILL GEL	50 kg/sx	100				100	
Sample Temperature	deg C		53	O	C	HYDRO PAC R	25 kg/sx						
Depth	metre		2578	O	H	XC-EED	25 kg/sx	37				37	
Weight	S.G		1.255	H	L	GUAR GUM	25 kg/sx						
Funnel Viscosity	sec/qt	1-25	54		U	KCL (1 MT/BB)	1 MT	4				4	
Plastic Viscosity	cps	55-70	19	F	M	KCL (50 kg/sx)	50 kg/sx						
Yield Point	lb/100 sq.ft	15-25	11	O	B	Calcium Chloride	25 kg/sx	120				120	
Gel Strength (10sec/10min)	cps	10-20	13/23	R	E	DRILL CARB M (25 kg	25 kg/sx						
HT-HP (500 psi,121°C)	ml	20-30	1.8		R	DRILL CARB F (25 kg	25 kg/sx						
HP-HT Cake Thickness	32nd in.	2-3	2	S	G	LIME	25 kg/sx	160				160	
Electrical Stability (ESV)	Volt		776	L	E	CONFI GEL	25 kg/sx	101				101	
Pom	ml	>600	2.0	B	R	CONFI GEL HT	25 kg/sx						
AgNo3	ml		3.40			CONFI MUL P	208 ltr/drm	15				15	
Excess Lime	ppb		2.60	W	W	CONFI MUL S	208 ltr/drm						
CaCl2	% by Wt	20-22	23.7	I	I	CONFI TROL F	208 ltr/drm	2				2	
Water Phase Chlorides	mg/ltr		184,031	R	R	CONFI TROL	25 kg/sx	80				80	
Sand Content	% by Vol.	<0.5%	tr	E	E	CONFI TROL HT	25 kg/sx						
Water Content	% by Vol.		17.1	L	L	CONFI TROL XHT	25 kg/sx	42				42	
Oil Content	% by Vol.		66.7	I	I	CONFI MOD	208 ltr/drm	5				5	
Uncorrected Solid Content	% by Vol.		16.2	N	N	DRILL CARB F (BB)	1 MT	7		2		5	
Corrected Solid Content	% by Vol.		14.9	E	E	DRILL CARB M (BB)	1 MT	8		2		6	
Corrected Water content	% by Vol.		18.4			SCOMI-ESCAID 110	CUBIC Meter	129.41				129.41	
Oil Water Ratio		80/20	80/20	L	L	DRILL BAR	1.5 MT	20				20	
Water Activity (Aw)	Fraction		0.776	O	O	DRILL CARB C (BB)	1 MT	5				5	
Solid Analysis				G	G	0	1 ml						
High Gravity Solids	% by Vol		7.6	G	G								
High Gravity Solids	kg/m³		319.0	I	I								
Low Gravity Solids	% by Vol	<8	7.3	N	N								
Low Gravity Solids	kg/m3		173.7	G	G								
6 RPM READING		8-10	8										

Time	03:15			Hole Drilled (m3)			
600 RPM	49			Cuttings Discharged (MT)			
300 RPM	30			Barite Discharge (MT)			
200 RPM	22			SOC (% by weight)			
100 RPM	15			Synthetic discharge (MT)			
6 RPM	8			BIT DATA			
3 RPM	7			Made			
				Type			
				Jet			

Daily Eng Service		Daily Mud Chemicals Cost	
Previous Eng Service		Previous Mud Chemicals Cost	
CUM ENG SERVICE		Cumulative Mud Chemicals Cost	
		Debit well	
		Credit well with SDF	
		TOTAL MUD COST	

SOLID CONTROL EQUIPMENT INFORMATION				Vol Addition	Daily (M^3)	Cummulative (M^3)	Losses	Daily	Cummulative (M^3)
	Sizes	Hours	Lost (M^3)						
Shakers #1	200x170x170 MESH API PMD	4.0	0.10	Mud		135.69	Shakers	0.20	36.80
Shakers #2	200x170x170 MESH API PMD	3.0	0.10	Water		5.00	Centrifuge	1.00	15.70
Shakers #3	200x170x170 MESH API PMD			Base Oil		47.17	Evaporation		0.50
Shakers #4				Chemicals	1.48	11.11	Surface	0.50	0.50
Centrifuges 1	LW355-1250N	1.0	1.00	Barite		5.35	Left in hole		0.00
Centrifuges 2	DE-7200			TOTAL	1.48	68.63	Formation lost		0.00
							Total	1.70	53.50

After POOH to 2050mTMD, Circulated prior to condition mud after added CaCO3; Continued to POOH prior to Schlumberger Wireline Logging; Slugged pipe; Continued to POOH; R/Up Schlumberger Wireline Logging; Ran PEX-AIT and XPT as per program; According to logging Average hole size is 8.82" and BHT is 101.1 °C; R/Dn Schlumberger Wireline Logging; RIH 7" Casing; Casing Lowering to 62.7m; Continue to RIH 7" Casing.

After POOH to 2050mTMD, Increased CaCO3 contenitration from 15 ppb to 30 ppb as per instruction while circulation before POOH; Prepared Slug Mud; Ran Centrifuge to cut-down MW to 1.25 SG; Mobilized 15 m3 Base Oil from SCOMI yard to Location.

DAILY MUD REPORT

Rig Name	SUT Central	Date	28-Apr-08	Fluids Engineer	B.D.Kabiraj / Sahadhanapol P.	Depth (m)	2578.0
Well Name & No		Report No.	4	Solid Control	Winai / Boonrlab	Depth-TVD (m)	2037.0
Field	Plain 1B	Formation	Sand / Clay	Head Quarters	Bangkok	Bit Depth (m)	1930.0
Block		Warehouse	Lan Krabue	Operator Rep	Mr. Sarit / Mr. Pratsont	Spud Date	25-Apr-08
Offshore Area				Contractor Rep	Han Min Jiu	Hole Section (in)	8 3/4

Present Activity	POOH for Wireline	Surface	9 5/8	1098	Hole Volume		94.91 M³
Bit Size(inch)	8 3/4	Production			Active pits		35.58 M³
Drill Pipe Size(inch)	5				Reserve		7.92 M³
Drill Collar(inch)	6 1/2				Sandtrap+Trip Tank+Surface lines		12.65 M³
HWDP	5				Total Volume		151.04 M³

Pump Size (inch)	5.75	Strk Length	12	Opposite DP in OH	0.00		meter/min
Pump Make	BOMCO-F1600			Opposite DC in OH	0.00		meter/min
Liter/Stroke (97%)	14.8590			Opposite DP in Cased Hole	0.00		meter/min
Strokes/Minute				Circulating Pressure			psi
M³ / Minute	0.000			Bottoms Up Strokes	5927	Bottoms Up Minutes	
				Surface to surface Strokes	7137	Cycle time Minutes	

Sample From:			ACTIVE	ACTIVE	ACTIVE	PRODUCT	UNIT SIZE	STOCK	REC'D	USED	BACK'D	BAL	COST
Time Sample Taken	24 hrs		05:50	13:30	17:45	DRILL GEL	50 kg/sx	100				100	
Sample Temperature	deg C		61	62	62	HYDRO PAC R	25 kg/sx						
Depth	metre		2127	2491	2578	XC-EED	25 kg/sx	37				37	
Weight	S.G	1-25	1.25	1.25	1.25	GUAR GUM	25 kg/sx						
Funnel Viscosity	sec/qt	55-70	53	52	50	KCL (1 MT/BB)	1 MT	4				4	
Plastic Viscosity	cps	15-25	18	18	19	KCL (50 kg/sx)	50 kg/sx						
Yield Point	lb/100 sq.ft	10-20	12	13	11	Calcium Chloride	25 kg/sx	180		60		120	
Gel Strength (10sec/10min)	cps	20-30	14/26	15/26	13/23	DRILL CARB M (25 kg	25 kg/sx						
HT-HP (500 psi,121°C)	ml	2-3	1.8	1.8	1.8	DRILL CARB F (25 kg	25 kg/sx						
HP-HT Cake Thickness	32nd in.		2	2	2	LIME	25 kg/sx	200		40		160	
Electrical Stability (ESV)	Volt	>600	736	762	769	CONFI GEL	25 kg/sx	106		5		101	
Pom	ml		2.2	2.5	2.0	CONFI GEL HT	25 kg/sx						
AgNo3	ml		3.45	3.45	3.40	CONFI MUL P	208 ltr/drm	20		5		15	
Excess Lime	ppb		2.86	3.25	2.60	CONFI MUL S	208 ltr/drm						
CaCl2	% by Wt.	20-22	24.0	24.1	23.8	CONFI TROL F	208 ltr/drm	4		2		2	
Water Phase Chlorides	mg/ltr		186,905	187,708	184,623	CONFI TROL	25 kg/sx	140		60		80	
Sand Content	% by Vol.	<0.5%	tr	tr	tr	CONFI TROL HT	25 kg/sx						
Water Content	% by Vol.		17.1	17.0	17.1	CONFI TROL XHT	25 kg/sx	42				42	
Oil Content	% by Vol.		66.9	67.1	67.0	CONFI MOD	208 ltr/drm	5				5	
Uncorrected Solid Content	% by Vol.		16.0	15.9	16.0	DRILL CARB F (BB)	1 MT	9		2		7	
Corrected Solid Content	% by Vol.		14.8	14.8	14.8	DRILL CARB M (BB)	1 MT	9		1		8	
Corrected Water content	% by Vol.		18	18.1	18.3	SGOM-EGCAID 110	Cubic Meter	148.86		18.95		129.41	
Oil Water Ratio		80/20	80/20	80/20	80/20	DRILL BAR	1.5 MT	29		9		20	
Water Activity (Aw)	Fraction		0.769	0.768	0.774	DRILL CARB C (BB)	1 MT	5				5	
Solid Analysis						0	1 ml						
High Gravity Solids	% by Vol		7.7	7.8	7.8								
High Gravity Solids	kg/m³		323.2	327.3	327.3								
Low Gravity Solids	% by Vol	<8	7.1	7.0	7.0								
Low Gravity Solids	kg/m3		168.9	166.5	166.5								
6 RPM READING		8-10	9	9	8								

Time	05:50	13:30	17:45
600 RPM	48	49	49
300 RPM	30	31	30
200 RPM	23	23	22
100 RPM	18	16	15
6 RPM	9	9	8
3 RPM	8	8	7

Hole Drilled (m3)	31.08
Cuttings Discharged (MT)	81.81
Barite Discharge (MT)	
SOC (% by weight)	
Synthetic discharge (MT)	

BIT DATA	
Made	Security DBS
Type	FM3461Z
Jet	4 X 16

Daily Eng Service	
Previous Eng Service	
CUM ENG SERVICE	

Daily Mud Chemicals Cost	
Previous Mud Chemicals Cost	
Cumulative Mud Chemicals Cost	
Debit well	
Credit well with SDF	
TOTAL MUD COST	

SOLID CONTROL EQUIPMENT INFORMATION	Sizes	Hours	Lost (M³)
Shakers #1	200x170x170 MESH API PMD	18.5	6.40
Shakers #2	200x170x170 MESH API PMD	18.5	6.40
Shakers #3	200x170x170 MESH API PMD	18.5	6.40
Shakers #4			
Centrifuges 1	LW355-1250N	3.0	1.50
Centrifuges 2	DE-7200	9.0	9.00

Vol Addition	Daily (M³)	Cummulative (M³)
Mud		135.69
Water	2.00	5.00
Base Oil	18.95	47.17
Chemicals	4.54	9.63
Barite	3.21	5.35
TOTAL	28.70	67.15

Losses	Daily	Cummulative (M³)
Shakers	19.20	36.60
Centrifuge	10.50	14.70
Evaporation	0.50	0.50
Surface		0.00
Left in hole		0.00
Formation lost		0.00
Total	30.20	51.80

Continued to Drill and slide 8 3/4" hole section to 2578mTMD / 2037.9mTVD; Circulated Hole Clean; POOH 6 stands, slugged pipe; Continued to POOH prior for Schlumberger Wireline Logging; Continued to POOH to 1930m at the report time.

Added chemical to maintain active mud properties; Ran centrifuge to remove LGS after passed LYOM and added barite to control MW in active system; Maintained 15 ppb CaCO3 (F:M, 50:50) before entering LKU-K formation as per plan; 7% of LGS was came from the maintaining of CaCO3 concentration in mud system; Prepared Slug Mud.

DAILY MUD REPORT

Rig Name	SUT Central	Date	27-Apr-08	Fluids Engineer	B.D.Kabiraj / Sahadhanapol P.	Depth (m)	1787.0
Well Name & No		Report No.	3	Solid Control	Winai / Boonrlab	Depth-TVD (m)	1423.0
Field		Formation	Sand / Clay	Head Quarters	Bangkok	Bit Depth (m)	1787.0
Block	Plain 1B	Warehouse	Lan Krabue	Operator Rep	Mr. Sarit / Mr. Pralsont	Spud Date	25-Apr-08
Offshore Area				Contractor Rep	Han Min Jiu	Hole Section (in)	8 3/4

Present Activity	Drill 8 3/4" Hole Section	Surface	9 5/8	1096	Hole Volume	64.63	M³
Bit Size(inch)	8 3/4	Production			Active pits	40.52	M³
Drill Pipe Size(inch)	5				Reserve	38.39	M³
Drill Collar(inch)	6 1/2				Sandtrap+Trip Tank+Surface lines	9.00	M³
HWDP	5				Total Volume	152.54	M³

Pump Size (inch)	5.75	Strk Length	12	Opposite DP In OH	84.17	meter/min	
Pump Make	BOMCO-F1600			Opposite DC In OH	126.48	meter/min	
Liter/Stroke (97%)	14.8590			Opposite DP In Cased Hole	79.51	meter/min	
Strokes/Minute	148			Circulating Pressure	2592	psi	
M³ / Minute	2.199			Bottoms Up Strokes	3917	Bottoms Up Minutes	26.47
				Surface to surface Strokes	5034	Cycle time Minutes	34.01

Sample From:				ACTIVE	ACTIVE	PRODUCT	UNIT SIZE	STOCK	REC'D	USED	BACK'D	BAL	COST
Time Sample Taken	24 hrs			14:00	23:00	DRILL GEL	50 kg/sx	100				100	
Sample Temperature	deg C		R	48	58	HYDRO PAC R	25 kg/sx						
Depth	metre		I	1198	1731	XC-EED	25 kg/sx	37				37	
Weight	S.G	1-25	H	1.25	1.25	GUAR GUM	25 kg/sx						
Funnel Viscosity	sec/qt	55-70		49	53	KCL (1 MT/BB)	1 MT	4				4	
Plastic Viscosity	cps	15-25	8	17	18	KCL (50 kg/sx)	50 kg/sx						
Yield Point	lb/100 sq.ft	10-20	-	12	13	Calcium Chloride	25 kg/sx	280		100		180	
Gel Strength (10sec/10min)	cps	20-30	3/4"	12/20	13/24	DRILL CARB M (25 kg	25 kg/sx						
HT-HP (500 psi,121°C)	ml	2-3		2.0	2.0	DRILL CARB F (25 kg	25 kg/sx						
HP-HT Cake Thickness	32nd in.		6	2	2	LIME	25 kg/sx	240		40		200	
Electrical Stability (ESV)	Volt	>600		735	758	CONFI GEL	25 kg/sx	80	40	14		106	
Pom	ml		B	2.4	2.0	CONFI GEL HT	25 kg/sx						
AgNo3	ml		H	3.32	3.40	CONFI MUL P	208 ltr/drm	28		8		20	
Excess Lime	ppb		A	3.12	2.60	CONFI MUL S	208 ltr/drm						
CaCl2	% by Wt.	20-22		23.0	23.2	CONFI TROL F	208 ltr/drm	6		2		4	
Water Phase Chlorides	mg/ltr		T	177,394	179,424	CONFI TROL	25 kg/sx	160		20		140	
Sand Content	% by Vol.	<0.5%	O	tr	tr	CONFI TROL HT	25 kg/sx						
Water Content	% by Vol.			17.4	17.5	CONFI TROL XHT	25 kg/sx	42				42	
Oil Content	% by Vol.		D	66.8	66.5	CONFI MOD	208 ltr/drm	3	4	2		5	
Uncorrected Solid Content	% by Vol.		R	15.8	16.0	DRILL CARB F (BB)	1 MT	6	5	2		9	
Corrected Solid Content	% by Vol.		I	14.6	14.8	DRILL CARB M (BB)	1 MT	2	9	2		9	
Corrected Water content	% by Vol.		L	18.6	18.7	SCOMI-ESCAID 110	Cubic Meter	191.58	45	28.22		148.36	
Oil Water Ratio		80/20	L	79/21	79/21	DRILL BAR	1.5 MT	31	4	6		29	
Water Activity (Aw)	Fraction			0.793	0.784	DRILL CARB O (BB)	1 MT	5				5	
Solid Analysis						0	1 mt						
High Gravity Solids	% by Vol			8.0	7.7								
High Gravity Solids	kg/m³			335.7	323.2								
Low Gravity Solids	% by Vol	<8		6.7	7.1								
Low Gravity Solids	kg/m3			159.4	168.9								
6 RPM READING		8-10		8	9								

Time	00:00	14:00	23:00	Hole Drilled (m3)	27.05		
600 RPM		46	49	Cuttings Discharged (MT)	70.33		
300 RPM		29	31	Barite Discharge (MT)		Daily Mud Chemicals Cost	
200 RPM		19	23	SOC (% by weight)		Previous Mud Chemicals Cost	
100 RPM		14	17	Synthetic discharge (MT)		Cumulative Mud Chemicals Cost	
6 RPM		8	9	BIT DATA		Daily Eng Service / Debit well	
3 RPM		7	8	Made	Security DBS	Previous Eng Service / Credit well with SDF	
				Type	FM3461Z	CUM ENG SERVICE	TOTAL MUD COST
				Jet	4 X 16		

SOLID CONTROL EQUIPMENT INFORMATION				Vol Addition	Daily (M³)	Cummulative (M³)	Losses	Daily	Cummulative (M³)
	Sizes	Hours	Lost (M³)	Mud	59.51	135.69	Shakers	17.40	17.40
Shakers #1	200x170x170 MESH API PMD	14.5	5.80	Water	3.00	3.00	Centrifuge	4.20	4.20
Shakers #2	200x170x170 MESH API PMD	14.5	5.80	Base Oil	28.22	28.22	Evaporation		0.00
Shakers #3	200x170x170 MESH API PMD	14.5	5.80	Chemicals	5.09	5.09	Surface		0.00
Shakers #4				Barite	2.14	2.14	Left in hole		0.00
Centrifuges 1	LW355-1250N			TOTAL	38.45	38.45	Formation lost		0.00
Centrifuges 2	DE-7200	3.0	4.20				Total	21.60	21.60

Continued to RIH 9 5/8" Casing to 1096m; Circulated prior to Cementation; Dowell Cementation and displaced cement with 44.16 m3 as per program; R/down Dowell Cement Head; N/Down Riser; N/Up BOP and flow riser; BOP function test; M/U 8 3/4" bit and BHA; RIH 8 3/4" bit, BHA and DP prior to drill 8 3/4" hole section; Drilled and slide 8 3/4" hole section to 1787m at report time.

During cementation dumped 85.14 m3 Bentonite Gel Mud; After finished cement job dumped and clean 47.86 m3 Bentonite Gel Mud in 2B, 3A, 3B and Sand Trap; Today Received 59.51 m3 OBM from SCOMI Yard, total received 135.69 m3; Received 45 m3 new shipment Base Oil at SCOMI Yard; Premixed 33.33 m3 OBM and sheared; Maintain Mud properties by added chemical especially Rheology Modifier; Added 15 ppb of CaCO3 (F:M, 50:50) before entering LYOM formation as per plan;

DAILY MUD REPORT

Rig Name	SUT Central	Date	26-Apr-08	Fluids Engineer	B.D.Kabiraj / Sahadhanapol P.	Depth (m)	1101.0
Well Name & No		Report No.	2	Solid Control	Winai / Boonrab	Depth-TVD (m)	905.0
Field		Formation	Sand / Clay	Head Quarters	Bangkok	Bit Depth (m)	0.0
Block	Plain 1B	Warehouse	Lan Krabue	Operator Rep	Mr. Sarit / Mr. Praisont	Spud Date	25-Apr-08
Offshore Area				Contractor Rep	Han Min Jiu	Hole Section (in)	12 1/4

Present Activity	RIH 7" Casing	Surface			Hole Volume	85.14 M^3
Bit Size(inch)		Production			Active pits	38.86 M^3
Drill Pipe Size(inch)					Reserve	M^3
Drill Collar(inch)					Sandtrap+Trip Tank+Surface lines	9.00 M^3
HWDP					Total Volume	133.00 M^3

Pump Size (inch)	5.75	Strk Length	12	Opposite DP in OH	0.00		meter/min
Pump Make	BOMCO-F1600			Opposite DC in OH	0.00		meter/min
Liter/Stroke (97%)	14.8590			Opposite DP in Cased Hole	0.00		meter/min
Strokes/Minute				Circulating Pressure			psi
M^3 / Minute	0.000			Bottoms Up Strokes	0	Bottoms Up Minutes	
				Surface to surface Strokes	55	Cycle time Minutes	

Sample From:			ACTIVE	ACTIVE	
Time Sample Taken	24 hrs		07:00	09:50	
Sample Temperature	deg C		41	43	R
Depth	metre		902.0	1100.0	I
Weight	S.G	1.15	1.12	1.14	H
Funnel Viscosity	sec/qt	36-40	35	37	
Plastic Viscosity	cps	ALAP	5	7	7"
Yield Point	lb/100 sq.ft	>6	8	9	
Gel Strength (10sec/10min)	cps		7/15	8/18	C
HT-HP (500 psi,121°C)	ml				A
HP-HT Cake Thickness	32nd In.				S
Electrical Stability (ESV)	Volt				I
Pom	ml				N
AgNo3	ml				G
Excess Lime	ppb				
CaCl2	% by Wt.				
Water Phase Chlorides	mg/ltr				
Sand Content	% by Vol.	<1%	0.70	0.90	
Water Content	% by Vol.		95.0	94.0	
Oil Content	% by Vol.				
Uncorrected Solid Content	% by Vol.		5.0	6.0	
Corrected Solid Content	% by Vol.				
Corrected Water content.	% by Vol.				
Oil Water Ratio					
Water Activity (Aw)	Fraction				
Solid Analysis					
High Gravity Solids	% by Vol				
High Gravity Solids	kg/m^3				
Low Gravity Solids	% by Vol				
Low Gravity Solids	kg/m3				
6 RPM READING					

PRODUCT	UNIT SIZE	STOCK	REC'D	USED	BACK'D	BAL	COST
DRILL GEL	50 kg/sx	140		40		100	
HYDRO PAC R	25 kg/sx						
XC-EED	25 kg/sx	37				37	
GUAR GUM	25 kg/sx						
KCL (1 MT/BB)	1 MT	4				4	
KCL (50 kg/sx)	50 kg/sx						
Calcium Chloride	25 kg/sx	280				280	
DRILL CARB M (25 kg	25 kg/sx						
DRILL CARB F (25 kg	25 kg/sx						
LIME	25 kg/sx	240				240	
CONFI GEL	25 kg/sx	80				80	
CONFI GEL HT	25 kg/sx						
CONFI MUL P	208 ltr/drm	26				26	
CONFI MUL S	208 ltr/drm						
CONFI TROL F	208 ltr/drm	6				6	
CONFI TROL	25 kg/sx	160				160	
CONFI TROL HT	25 kg/sx						
CONFI TROL XHT	25 kg/sx	42				42	
CONFI MOD	208 ltr/drm	3				3	
DRILL CARB F (BB)	1 MT	6				6	
DRILL CARB M (BB)	1 MT	2				2	
SCOMI ESCAID 110	Cubic Meter	131.58				131.58	
DRILL BAR	1.5 MT	31				31	
DRILL CARB C (BB)	1 MT	5				5	
0	1 mt						

Time	07:00	09:50			
600 RPM	18	23		Hole Drilled (m3)	
300 RPM	13	16		Cuttings Discharged (MT)	
200 RPM	10	13		Barite Discharge (MT)	
100 RPM	8	9		SOC (% by weight)	
6 RPM	6	7		Synthetic discharge (MT)	
3 RPM	5	5		BIT DATA	
				Made	
				Type	
				Jet	

Daily Eng Service	
Previous Eng Service	
CUM ENG SERVICE	

Daily Mud Chemicals Cost	
Previous Mud Chemicals Cost	
Cumulative Mud Chemicals Cost	
Debit well	
Credit well with SDF	
TOTAL MUD COST	

SOLID CONTROL EQUIPMENT INFORMATION	Sizes	Hours	Lost (M^3)
Shakers #1	200x170x170 MESH API PMD	24.0	15.00
Shakers #2	200x170x170 MESH API PMD	16.0	12.00
Shakers #3	200x170x170 MESH API PMD	16.0	12.00
Shakers #4			
Centrifuges 1	LW355-1250N		
Centrifuges 2	DE-7200	16.0	16.00

Vol Addition	Daily (M^3)	Cummulative (M^3)
Mud		76.18
Water	152.48	326.14
Base Oil		0.00
Chemicals	1.33	2.00
Barite		0.00
TOTAL	153.81	328.14

Losses	Daily	Cummulative (M^3)
Shakers	39.00	48.00
Centrifuge	16.00	17.50
Evaporation		0.00
Surface	111.64	129.64
Left in hole		0.00
Formation lost		0.00
Total	166.64	195.14

Continued to Drilled and Slide to 1101mTMD / 905m TVD; Reamed Back while POOH; RIH 7" Casing to 988m at report time.

Dumped the sandtrap at 499.3m (S/ 34%), 586.1m (S/ 30%), 729.8m (S/ 28%), 844.8m (S/ 30%), 960m (S/ 30%), 1074.8m (S/ 25%); During POOH dumped out Sand Trap at 929m (S/ 25%), 684m (S/ 20%), 469m (S/ 18%) and 237m (S/ 15%); Total Bentonite Gel Mud mixed today 153.81 m3; During 7" Casing Lowering, Bentonite Gel mud 54.64 m3 was dumped from Pit-1, 2A and 3B and cleaned; Ran centrifuge to control MW and removed sand content; Premixed OBM in Pit-4A and 4B; Prepared used OBM at Pit-5 which received from the previous well for displace Cement; Received base oil from SCOMI Yard 30 m3 at Location; Base Oil and OBM chemical were used for premixed will be charge on the next report; All OBM and Base Oil volume in this report were not use for consideration.

DAILY MUD REPORT

Rig Name	SUT Central	Date	25-Apr-08	Fluids Engineer	B.D.Kabiraj / Sahadhanapol P.	Depth (m)	411.4
Well Name & No		Report No.	1	Solid Control	Winai / Boonnab	Depth-TVD (m)	396.4
Field		Formation	Sand / Clay	Head Quarters	Bangkok	Bit Depth (m)	411.4
Block	Plain 1R	Warehouse	Lan Krabue	Operator Rep	Mr. Sarit / Mr. Praisont	Spud Date	25-Apr-08
Offshore Area				Contractor Rep	Han Min Jiu	Hole Section (in)	12 1/4

OPERATION		CASING	Size (in)	Depth (m)
Present Activity	Drill 12 1/4" Hole Section	Surface		
Bit Size(inch)	12 1/4	Production		
Drill Pipe Size(inch)	5			
Drill Collar(inch)	8			
HWDP	5			

MUD VOLUME (m³)	
Hole Volume	29.34 M³
Active pits	107.49 M³
Reserve	M³
Sandtrap+Trip Tank+Surface lines	9.00 M³
Total Volume	145.83 M³

CIRCULATION DATA			
Pump Size (inch)	5.75	Strk Length	12
Pump Make	BOMCO-F1600		
Liter/Stroke (97%)	14.8590		
Strokes/Minute	238		
M³ / Minute	3.536	777.81 gpm	

ANNULAR VELOCITY (meter / sec)			
Opposite DP in OH	55.81	meter/min	
Opposite DC in OH	81.09	meter/min	
Opposite DP in Cased Hole	54.73	meter/min	
Circulating Pressure	1527	psi	
Bottoms Up Strokes	1808	Bottoms Up Minutes	7.60
Surface to surface Strokes	2032	Cycle time Minutes	8.54

MUD TYPE: BENTONITE GEL MUD

Sample From:		Spec			ACTIVE
Time Sample Taken	24 hrs		R	R	23:30
Sample Temperature	deg C		I	I	32
Depth	metre		G	G	361
Weight	S.G	<1.15			1.07
Funnel Viscosity	sec/qt	36-40	M	U	32
Plastic Viscosity	cps	ALAP	O	P	4
Yield Point	lb/100 sq.ft	>6	V		6
Gel Strength (10sec/10min)	cps		E	I	2/5
HT-HP (500 psi,121°C)	ml		D	N	
HP-HT Cake Thickness	32nd in.			S	
Electrical Stability (ESV)	Volt		F	T	
Pom	ml		R	A	
AgNo3	ml		O	L	
Excess Lime	ppb		M	L	
CaCl2	% by Wt.				
Water Phase Chlorides	mg/ltr		L	F/L	
Sand Content	% by Vol.	<1%	K		0.40
Water Content	% by Vol.		U	&	97.0
Oil Content	% by Vol.		-		
Uncorrected Solid Content	% by Vol.		B	N/U	3.0
Corrected Solid Content	% by Vol.		2		
Corrected Water content.	% by Vol.		6	R	
Oil Water Ratio				I	
Water Activity (Aw)	Fraction		(BAB)	S	
Solid Analysis				E	
High Gravity Solids	% by Vol			R	
High Gravity Solids	kg/m³				
Low Gravity Solids	% by Vol				
Low Gravity Solids	kg/m3				
6 RPM READING					

MATERIAL CONSUMPTION & COST

PRODUCT	UNIT SIZE	STOCK	REC'D	USED	BACK'D	BAL	COST
DRILL GEL	50 kg/sx	160		20		140	
HYDRO PAC R	25 kg/sx						
XC-EED	25 kg/sx	37				37	
GUAR GUM	25 kg/sx						
KCL (1 MT/BB)	1 MT	4				4	
KCL (50 kg/sx)	50 kg/sx						
Calcium Chloride	25 kg/sx	280				280	
DRILL CARB M (25 kg	25 kg/sx						
DRILL CARB F (25 kg	25 kg/sx						
LIME	25 kg/sx	240				240	
CONFI GEL	25 kg/sx	80				80	
CONFI GEL HT	25 kg/sx						
CONFI MUL P	208 ltr/drm	26				26	
CONFI MUL S	208 ltr/drm						
CONFI TROL F	208 ltr/drm	6				6	
CONFI TROL	25 kg/sx	160				160	
CONFI TROL HT	25 kg/sx						
CONFI TROL XHT	25 kg/sx	42				42	
CONFI MOD	208 ltr/drm	3				3	
DRILL CARB F (BB)	1 MT	6				6	
DRILL CARB M (BB)	1 MT	2				2	
SCOMI-ESCAID 110	Cubic Meter	131.58				131.58	
DRILL BAR	1.5 MT	31				31	
DRILL CARB C (BB)	1 MT	5				5	
0	1 ml						
0	0						
0	0						
0	0						
0	0						

VG METER READING AT 65.5°C			
Time	R	R	23:30
600 RPM			14
300 RPM			10
200 RPM			8
100 RPM			6
6 RPM			4
3 RPM			4

SYNTHETIC ON CUTTINGS ANALYSIS	
Hole Drilled (m3)	
Cuttings Discharged (MT)	
Barite Discharge (MT)	
SOC (% by weight)	
Synthetic discharge (MT)	

BIT DATA	
Made	Hycalog
Type	PCD DSX419S-E5
Jet	8X14

COST

Daily Eng Service	
Previous Eng Service	
CUM ENG SERVICE	
Daily Mud Chemicals Cost	
Previous Mud Chemicals Cost	
Cumulative Mud Chemicals Cost	
Debit well	
Credit well with SOF	
TOTAL MUD COST	

SOLID CONTROL EQUIPMENT INFORMATION	Sizes	Hours	Lost (M³)
Shakers #1	200x170x170 MESH API PMD	4.0	3.00
Shakers #2	200x170x170 MESH API PMD	4.0	3.00
Shakers #3	200x170x170 MESH API PMD	4.0	3.00
Shakers #4			
Centrifuges 1	LW355-1250N		
Centrifuges 2	DE-7200	1.5	1.50

Vol Addition	Daily (M³)	Cummulative (M³)
Mud	76.18	76.18
Water	173.66	173.66
Base Oil		0.00
Chemicals	0.67	0.67
Barite		0.00
TOTAL	174.33	174.33

Losses	Daily	Cummulative (M³)
Shakers	9.00	9.00
Centrifuge	1.50	1.50
Evaporation		0.00
Surface	18.00	18.00
Left in hole		0.00
Formation lost		0.00
Total	28.50	28.50

Operation Comment

Rig was skidded from LKU-B26 (BAB) at 14:00 hrs; N/up Riser and install flowline; M/up 12 1/4" bit and BHA; RIH for drill 12 1/4" hole section; Started Spud at 20:00 hrs, Drilled and slide to 411.4m at the report time.

Drilling Fluid Comment

Engineering service cost is charged for half day in this report; Received OBM from LKU-B26 (BAB) 76.18 m3 and keep in Pit-4A and Pit-5; Filled up all active Pits with water; Mixed Bentonite Gel in Pit-3B and slowly feed into mud system; Dumped the sandtrap at 183m (sand 35%), 355.6m (32%).

8.75 " INTERVAL

SUT Central Plain 2B

OPERATOR :	SPUD : 28 Apr 07	DATE : 05 May 07	DEPTH TVD/MD m.	2,211	2,643
WELL NAME :	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGINEER : Preecha Ruangrak / Chanin Wongdontri		
OPERATOR REP : Aung Kyaw/ Yutthaphum D.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jiu		

MUD TYPE : KCL Brine	MUD PROPERTIES				MUD PROPERTY SPEC.						
SAMPLE FROM					Weight 1.20 sg.	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20	YP	10-20
TIME SAMPLE TAKEN					ES V. 600	Excess Lime	1-2	CaCl2%	20-22	6 RPM	8-10
PIT/FLOWLINE TEMP. °C			KCl								
DEPTH MD (m)			/CaCl2								
DEPTH TVD (m)											
MUD WEIGHT (sg)			1.14								
FUNNEL VISCOSITY (sec/qt)											
PLASTIC VISCOSITY (cp)			B								
YIELD POINT (lb/100 cu. ft²)			R								
GELS (lb/100 ft²) 10/10/30			I								
ES (volts)			N								
OIL WATER RATIO			E								
HTHP (cm³/30min) @ 250° F											
CAKE (32nd in. API/HTHP)			I								
RE IT SOLIDS (%vol)			N								
RETORT OIL (%vol)											
RETORT WATER (%vol)			H								
CORRECTED SOLIDS (%vol)			O								
% LGS			L								
% BAR			E								
LGS ppb											
BAR (ppb)											
ALKALINITY (Pom)											
EXCESS LIME (lb/bbl)											
CHLORIDE (mg/l)											
CACL2 (%)											
SAND CONTENT (% vol)											
AVERAGE SOLIDS, spgr											
RHEOLOGY 600/300											
65° C 200/100											
6/3											
OOC %											

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	42				42	
BENTONITE (M-I	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	174				174	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	152				152	
CAL CHLORIDE	25 kg / sx	190				190	
DUO-VIS	25 kg / sx	10				10	
ECOTROL RD	25 kg / sx	17				17	
ESCAID 110	1 m3 bk	88.55				88.55	
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	135				135	
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	75			5	70	$78.75
KCl (BB)	1 mt / sx	18.00			3.00	15.00	$1,365.00
OIL BASE MUD	1 m3 bk						
VERSACOAT IC	55 gal / dr	10				10	
VERSAGEL HT	25 kg / sx	136				136	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	13				13	
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$1,443.75
PREVIOUS ENGR. TOTAL	$9,100	PREVIOUS CHEM. TOTAL	$64,288.67
CUM. ENGR. SERVICE	$10,400	CUM. CHEM. TOTAL	$65,732.42

COMMENTS / RECOMMENDATIONS

Perforated 8 runs, finished perforation for total of 14 runs. R/U and ran 2 7/8" completion tubing as per completion running program. N/D BOP, R/D and prepare to move to LKU-F location. This is the last report for this well.

Made up additional 1.14 KCl brine in slug pit.

SOLIDS CONTROL EQUIPMENT

	SIZE	HOURS	U/F
Centrifuge #1	152		
Centrifuge #2	552S		
Derrick Shaker 1	210/210/210		
Derrick Shaker 2	210/210/210		
Derrick Shaker 3	210/210/210		

HYDRAULICS

Ann Vel (m/min)	
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	

SCREENS USED

MUD VOLUMES m3

ANNULAR VOLUME	
STRING CAPACITY	
ACTIVE PITS	
TOTAL CIRC. VOLUME	
RESERVE OBM	160.0
TOTAL VOLUME	160.0

CASING DATA

9.625-in @1063 m (1017 TVD)

7-in @2601 m (2183 TVD)

SHOE TEST (EMW) -9999

MUD VOL ACCOUNTING (m3)

STARTING VOL	159.6
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	
CHEMICAL ADDED	
TOTAL VOLUME BUILT	
FORMATION	
SHAKERS	
DUMPED /SOLIDS	
CENTRIFUGES	
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	
OBM T/F TO NEXT WELL	
ENDING VOLUME	159.6
CUM BUILT SECTION	84.2
CUM LOST SECTION	58.5

BIT DATA

TYPE :		
SIZE:	8 3/4	
JETS:		
TFA		

STRING DATA

	LENGTH	OD	ID
CSG			
DP1			
HWDP			
DC			
Liner			

PUMP DATA

PUMP SIZE	5.75x12 in	spm	gpm
OUTPUT@97%	0.093 bps		bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK.			
TOTAL CIRC. TIME/STK.			

8.75 " INTERVAL

SUT Central Plain 2B

OPERATOR :	SPUD : 28 Apr 07	DATE : 04 May 07	DEPTH TVD/MD m.	2,211	2,643
WELL NAME :	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGINEER : Preecha Ruangrak / Chanin Wongdontri		
OPERATOR REP : Aung Kyaw/Yutthaphum D.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jul		

MUD TYPE : Versaclean OB	MUD PROPERTIES					MUD PROPERTY SPEC.						
SAMPLE FROM						Weight	1.20 sg.	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20	YP	10-20
TIME SAMPLE TAKEN				KCl		ES V.	600	Excess Lime	1-2	CaCl2%	20-22	6 RPM	8-10
PIT/FLOWLINE TEMP. °C				/CaCl2									
DEPTH MD (m)													
DEPTH TVD (m)													
MUD WEIGHT (sg)				1.14									
FUNNEL VISCOSITY (sec/qt)													
PLASTIC VISCOSITY (cp)				B									
YIELD POINT (lb/100 cu. ft²)				R									
GELS (lb/100 ft²) 10/10/30				I									
ES (volts)				N									
OIL WATER RATIO				E									
HTHP (cm³/30min) @ 250° F													
CAKE (32nd in. API/HTHP)				I									
RE :T SOLIDS (%vol)				N									
RETORT OIL (%vol)													
RETORT WATER (%vol)				H									
CORRECTED SOLIDS (%vol)				O									
% LGS				L									
% BAR				E									
LGS ppb													
BAR (ppb)													
ALKALINITY (Pom)													
EXCESS LIME (lb/bbl)													
CHLORIDE (mg/l)													
CACL2 (%)													
SAND CONTENT (% vol)													
AVERAGE SOLIDS, spgr													
RHEOLOGY 600/300													
65° C 200/100													
6/3													
OOC %													

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	42				42	
BENTONITE (M-I	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	174				174	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	152				152	
CAL CHLORIDE	25 kg / sx	190				190	
DUO-VIS	25 kg / sx	10				10	
ECOTROL RD	25 kg / sx	17				17	
ESCAID 110	1 m3 bk	88.54	0.01			88.55	
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	135				135	
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	75				75	
KCl (BB)	1 mt / sx	20.00			2.00	18.00	$910.00
OIL BASE MUD	1 m3 bk						
VERSACOAT IC	55 gal / dr	10				10	
VERSAGEL HT	25 kg / sx	142		6		136	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	13				13	
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$910.00
PREVIOUS ENGR. TOTAL	$7,800	PREVIOUS CHEM. TOTAL	$63,378.67
CUM. ENGR. SERVICE	$9,100	CUM. CHEM. TOTAL	$64,288.67

COMMENTS / RECOMMENDATIONS

Ran Gammaray and perforated 6 runs. RIH perforation gun for 7th run at report time.

Made up additional 1.14 KCl brine. Centrifuge cutback loss = 21 m3. Saved total of 159.6 m3 OBM.

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1	152	20.0	
Centrifuge #2	552S	20.0	
Derrick Shaker 1	210/210/210		
Derrick Shaker 2	210/210/210		
Derrick Shaker 3	210/210/210		

HYDRAULICS	
Ann Vel (m/min)	
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	

MUD VOLUMES	m3
ANNULAR VOLUME	
STRING CAPACITY	
ACTIVE PITS	
TOTAL CIRC. VOLUME	
RESERVE OBM	159.6
TOTAL VOLUME	159.6

MUD VOL ACCOUNTING (m3)	
STARTING VOL	180.6
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	
CHEMICAL ADDED	
TOTAL VOLUME BUILT	
FORMATION	
SHAKERS	
DUMPED /SOLIDS	
CENTRIFUGES	21.0
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	21.0
OBM T/F TO NEXT WELL	
ENDING VOLUME	159.6
CUM BUILT SECTION	84.2
CUM LOST SECTION	93.1

SCREENS USED

CASING DATA

9.625-in @1063 m (1017 TVD)

7-in @2601 m (2183 TVD)

SHOE TEST (EMW)

BIT DATA		STRING DATA			
TYPE :			LENGTH	OD	ID
SIZE:	8 3/4	CSG			
JETS:		DP1			
		HWDP			
		DC			
TFA		Liner			

PUMP DATA			
PUMP SIZE 5.75x12 In		spm	gpm
OUTPUT@97% 0.093 bps			bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK.			
TOTAL CIRC. TIME/STK.			

8.75 " INTERVAL

SUT Central Plain 2B

OPERATOR : I	SPUD : 28 Apr 07	DATE : 03 May 07	DEPTH TVD/MD m.	2,211	2,643
WELL NAME : I	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGINEER : Slobodan Lazic / Chanin Wongdontrl		
OPERATOR REP : Aung Kyaw/Yutthaphum D.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jul		

MUD TYPE : Versaclean OB	MUD PROPERTIES				MUD PROPERTY SPEC.						
SAMPLE FROM	Active				Weight 1.20 sg.	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20	YP	10-20
TIME SAMPLE TAKEN	14:30		KCl		ES V 600	Excess Lime	1-2	CaCl2%	20-22	6 RPM	8-10
PIT/FLOWLINE TEMP. °C	55		/CaCl2								

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	46			4	42	$667.00
BENTONITE (M-I	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	174				174	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	152				152	
CAL CHLORIDE	25 kg / sx	190				190	
DUO-VIS	25 kg / sx	12			2	10	$530.00
ECOTROL RD	25 kg / sx	17				17	
ESCAID 110	1 m3 bk	90.14			1.60	88.54	$1,136.40
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	135				135	
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	151			76	75	$1,197.00
KCl (BB)	1 mt / sx	20.00				20.00	
OIL BASE MUD	1 m3 bk						
VERSACOAT IC	55 gal / dr	10				10	
VERSAGEL HT	25 kg / sx	142				142	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	13				13	
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$3,530.40
PREVIOUS ENGR. TOTAL	$6,500	PREVIOUS CHEM. TOTAL	$59,848.27
CUM. ENGR. SERVICE	$7,800	CUM. CHEM. TOTAL	$63,378.67

DEPTH MD (m)	2,643
DEPTH TVD (m)	2,211
MUD WEIGHT (sg)	1.32
FUNNEL VISCOSITY (sec/qt)	54
PLASTIC VISCOSITY (cp)	17
YIELD POINT (lb/100 cu. ft²)	13
GELS (lb/100 ft²) 10/10/30	17/28/31
ES (volts)	676
OIL WATER RATIO	81/19
HTHP (cm³/30min) @ 250° F	2.0
CAKE (32nd in. API/HTHP)	2
RETORT SOLIDS (%vol)	17.0
RETORT OIL (%vol)	67.0
RETORT WATER (%vol)	16.0
CORRECTED SOLIDS (%vol)	15.9
% LGS	4.2
% BAR	11.7
LGS ppb	37.9
BAR (ppb)	172.0
ALKALINITY (Pom)	1.8
EXCESS LIME (lb/bbl)	2.3
CHLORIDE (mg/l)	29,500
CACL2 (%)	22.4
SAND CONTENT (% vol)	tr
AVERAGE SOLIDS, spgr	3.8

RHEOLOGY	600/300	47/30
65° C.	200/100	23/18
	6/3	10/9
OOC %		

COMMENTS / RECOMMENDATIONS

Ran XPT. Logging indicated 8.73" avg hole size, 98.9 C degree Bottom hole temperature. Ran 7" csg to 2601 m. Circ. csg. Cemented as per program. Dumped 1.6 m3 OBM contaminated spacer. Dumped 2.9 m3 pure spacer(with max 10% trace of cement). No loss to formation from cement job. L/D 5"DP.

Used 75m3 1.14 SG KCl/CaCl2 brine from previous well. BJ used 4 BB Barite, 2 sx Duovis, 1.6m3 base oil, 45sxs KCl. Inventory correction: charged off 31 sxs KCl.

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1	152		
Centrifuge #2	552S		
Derrick Shaker 1	210/210/210		
Derrick Shaker 2	210/210/210		
Derrick Shaker 3	210/210/210		

HYDRAULICS	
Ann Vel (m/min)	
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	

MUD VOLUMES	m3
ANNULAR VOLUME	
STRING CAPACITY	
ACTIVE PITS	
TOTAL CIRC. VOLUME	
RESERVE OBM	180.6
TOTAL VOLUME	180.6

MUD VOL ACCOUNTING (m3)	
STARTING VOL	195.8
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	
CHEMICAL ADDED	
TOTAL VOLUME BUILT	
FORMATION	
SHAKERS	
PIT CLEANING /SOLIDS	13.6
CENTRIFUGES	
TRIPS	
DUMP	1.6
LEFT BEHIND CASING	
TOTAL LOSSES	15.2
OBM T/F TO NEXT WELL	
ENDING VOLUME	180.6
CUM BUILT SECTION	84.2
CUM LOST SECTION	72.1

SCREENS USED	CASING DATA
	9.625-in @1063 m (1017 TVD)
	7-in @2601 m (2183 TVD)
	SHOE TEST (EMW)

BIT DATA		STRING DATA	LENGTH	OD	ID
TYPE :					
SIZE:	8 3/4	CSG			
JETS:		DP1			
		HWDP			
		DC			
TFA		Liner			

PUMP DATA			
PUMP SIZE 5.75x12 In	spm	gpm	
OUTPUT@97% 0.093 bps		bbl/min	
PUMP PRESSURE		psi	
SURF. TO BIT		min	
BOTTOMS UP TIME/STK.			
TOTAL CIRC. TIME/STK.			

8.75 " INTERVAL

SUT Central Plain 2B

OPERATOR :	SPUD : 28 Apr 07	DATE : 02 May 07	DEPTH TVD/MD m.	2,211	2,643
WELL NAME :	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGINEER : Slobodan Lazic / Chanin Wongdontri		
OPERATOR REP : Aung Kyaw/Yutthaphum D.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jul		

MUD TYPE : Versaclean OB	MUD PROPERTIES			MUD PROPERTY SPEC.						
SAMPLE FROM	Active	Flowline	Active	Weight 1.20 sg	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20	YP	10-20
TIME SAMPLE TAKEN	04:00	09:00	12:30	ES V. 600	Excess Lime	1-2	CaCl2%	20-22	6 RPM	8-10
PIT/FLOWLINE TEMP. °C	66	67	68							
DEPTH MD (m)	2,310	2,575	2,643							
DEPTH TVD (m)	1,984	2,195	2,211							
MUD WEIGHT (sg)	1.28	1.30	1.32							
FUNNEL VISCOSITY (sec/qt)	60	57	54							
PLASTIC VISCOSITY (cp)	16	16	17							
YIELD POINT (lb/100 cu. ft²)	18	16	13							
GELS (lb/100 ft²) 10/10/30	18/29/33	17/28/32	17/26/31							
ES (volts)	724	840	827							
OIL WATER RATIO	80/20	80/20	81/19							
HTHP (cm³/30min) @ 250° F	2.0	2.0	2.0							
CAKE (32nd in. API/HTHP)	2	2	2							
RETORT SOLIDS (%vol)	16.0	16.5	17.0							
RETORT OIL (%vol)	67.5	67.5	67.0							
RETORT WATER (%vol)	16.5	16.0	16.0							
CORRECTED SOLIDS (%vol)	14.9	15.3	15.9							
% LGS	4.5	4.2	4.1							
% BAR	10.4	11.1	11.8							
LGS ppb	41.0	38.4	37.3							
BAR (ppb)	152.7	163.5	172.9							
ALKALINITY (Pom)	1.8	1.7	1.8							
EXCESS LIME (lb/bbl)	2.3	2.2	2.3							
CHLORIDE (mg/l)	29,000	30,000	29,500							
CACL2 (%)	21.6	22.7	22.4							
SAND CONTENT (% vol)	tr	tr	tr							
AVERAGE SOLIDS, spgr	3.7	3.8	3.8							
RHEOLOGY 600/300	50/34	48/32	47/30							
65° 200/100	25/19	24/18	23/18							
6/3	12/11	11/10	10/9							
OOC %										

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	64			18	46	$3,001.50
BENTONITE (M-I	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	180			6	174	$58.50
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	163			11	152	$107.25
CAL CHLORIDE	25 kg / sx	190				190	
DUO-VIS	25 kg / sx	12				12	
ECOTROL RD	25 kg / sx	17				17	
ESCAID 110	1 m3 bk	97.64			7.5	90.14	$5,326.88
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	135				135	
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	151				151	
KCl (BB)	1 mt / sx	20.00				20.00	
OIL BASE MUD	1 m3 bk						
VERSACOAT IC	55 gal / dr	10				10	
VERSAGEL HT	25 kg / sx	142				142	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	13				13	
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$8,494.13
PREVIOUS ENGR. TOTAL	$5,200	PREVIOUS CHEM. TOTAL	$51,354.14
CUM. ENGR. SERVICE	$6,500	CUM. CHEM. TOTAL	$59,848.27

COMMENTS / RECOMMENDATIONS

Drilled to TD at 2643mMD / 2211mVD. Carbide indicated avr. hole size 8.9" and 9.31" Carbide peak. Circulate 5 btms/up prior to poh. POH 5 stands and pumped slug. POOH. R/U Schlumberger wireline log. Ran PEx without problem at report time.

Transfered premix to active to maintain volume and properties. Maintained CaCO3 concentration in active system. After observing trace of caving of shakers increased MW from 1.28 sg to 1.3 at 2575m and then at TD to 1.32 sg in system prior to poh. Reduced hology prior to POH. Mixed slug. Ran centrifuge to control LGS and MW in system. Charged additional 5sx CaCO3 (M) for inventory correction. New base oil price since 1st May 07: US$710.25/M3

SOLIDS CONTROL EQUIPMENT

	SIZE	HOURS	U/F
Centrifuge #1	152	2.0	
Centrifuge #2	552S	6.0	
Derrick Shaker 1	210/210/210	10.0	
Derrick Shaker 2	210/210/210	10.0	
Derrick Shaker 3	210/210/210	10.0	

HYDRAULICS

Ann Vel (m/min)	
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	

MUD VOLUMES m3

ANNULAR VOLUME	105.2
STRING CAPACITY	
ACTIVE PITS	40.6
TOTAL CIRC. VOLUME	145.8
RESERVE OBM	50.0
TOTAL VOLUME	195.8

SCREENS USED

CASING DATA

9.625-in @1063 m (1017 TVD)

SHOE TEST (EMW)

MUD VOL ACCOUNTING (m3)

STARTING VOL	200.0
OBM RECD FROM PREV. WELL	
OIL ADDED	7.5
WATER ADDED	
CHEMICAL ADDED	7.0
TOTAL VOLUME BUILT	14.5
FORMATION	
SHAKERS	12.0
DUMPED /SOLIDS	
CENTRIFUGES	6.2
TRIPS	0.5
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	18.7
OBM T/F TO NEXT WELL	
ENDING VOLUME	195.8
CUM BUILT SECTION	84.2
CUM LOST SECTION	56.9

BIT DATA

TYPE :	
SIZE:	8 3/4
JETS:	
TFA	

STRING DATA

	LENGTH	OD	ID
CSG			
DP1			
HWDP			
DC			
Liner			

PUMP DATA

PUMP SIZE 5.75x12 in		spm	gpm
OUTPUT@97% 0.093 bps			bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK.			
TOTAL CIRC. TIME/STK.			

8.75 " INTERVAL

SUT Central Plain 2B

OPERATOR :	SPUD : 28 Apr 07	DATE : 01 May 07	DEPTH TVD/MD m.	1,829	2,083
WELL NAME :	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGINEER : Slobodan Lazic / Chanin Wongdontri		
OPERATOR REP : Aung Kyaw/Yutthaphum D.		CONTRACTOR: GWDC	CONTRACTOR REP :	Han Min Jul	

MUD TYPE : Versaclean OB	MUD PROPERTIES			
SAMPLE FROM	Flowline	Active	Flowline	Active
TIME SAMPLE TAKEN	4:00	10:00	15:30	21:45
PIT/FLOWLINE TEMP. °C	54	58	62	64
DEPTH MD (m)	1,278	1,524	1,684	1,970
DEPTH TVD (m)	1,221	1,447	1,568	1,755
MUD WEIGHT (sg)	1.28	1.28	1.28	1.28
FUNNEL VISCOSITY (sec/qt)	58	60	62	60
PLASTIC VISCOSITY (cp)	15	16	17	16
YIELD POINT (lb/100 cu. ft²)	15	16	18	17
GELS (lb/100 ft²) 10/10/30	15/26/31	17/28/33	19/31/34	18/28/32
ES (volts)	709	695	730	746
OIL WATER RATIO	80/20	80/20	80/20	80/20
HTHP (cm³/30min) @ 250° F	2.2	2.0	2.0	2.0
CAKE (32nd in. API/HTHP)	2	2	2	2
RE[illegible]T SOLIDS (%vol)	15.5	15.5	16.0	16.0
RETORT OIL (%vol)	67.5	67.5	67.0	67.5
RETORT WATER (%vol)	17.0	17.0	17.0	16.5
CORRECTED SOLIDS (%vol)	14.3	14.4	14.9	14.9
% LGS	4.5	4.1	4.3	4.1
% BAR	9.8	10.2	10.6	10.8
LGS ppb	40.8	37.5	38.8	37.6
BAR (ppb)	144.4	150.3	156.0	158.2
ALKALINITY (Pom)	1.5	1.6	1.7	1.8
EXCESS LIME (lb/bbl)	2.0	2.1	2.2	2.3
CHLORIDE (mg/l)	31,000	30,000	29,500	29,000
CACL2 (%)	22.2	21.6	21.4	21.6
SAND CONTENT (% vol)	tr	tr	tr	tr
AVERAGE SOLIDS, spgr	3.7	3.7	3.7	3.8
RHEOLOGY 600/300	45/30	48/32	52/35	49/33
65° C 200/100	24/17	25/18	27/20	26/19
6/3	11/10	12/11	13/12	12/11
OOC %				

MUD PROPERTY SPEC.							
Weight	1.20 sg.	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20	YP	10-20
ES V.	600	Excess Lime	1-2	CaCl2%	20-22	6 RPM	8-10

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	73			9	64	$1,500.75
BENTONITE (M-I	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	212			32	180	$312.00
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	192			29	163	$282.75
CAL CHLORIDE	25 kg / sx	210			20	190	$290.00
DUO-VIS	25 kg / sx	12				12	
ECOTROL RD	25 kg / sx	22			5	17	$1,575.00
ESCAID 110	1 m3 bk	97.64				97.64	
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	215			80	135	$508.00
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	151				151	
KCl (BB)	1 mt / sx	20				20	
OIL BASE MUD	1 m3 bk						
VERSACOAT IC	55 gal / dr	13			3	10	$1,200.00
VERSAGEL HT	25 kg / sx	159			17	142	$2,659.65
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	14			1	13	$358.20
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$8,686.35
PREVIOUS ENGR. TOTAL	$3,900	PREVIOUS CHEM. TOTAL	$42,667.79
CUM. ENGR. SERVICE	$5,200	CUM. CHEM. TOTAL	$51,354.14

COMMENTS / RECOMMENDATIONS

Cont. RIH. Resumed drilling to 2083m/1829m TVD at report time.

Transfered premix to active to maintain volume and properties. Redressed all shakers with 210 mesh screens. Added 0.6 ppb Ecotrol prior to mainseal (1647mMD) and maintained. Added 10 ppb CaCO3 M/C prior to LKU-K formation (1791mMD) and maintaining while drilling. Ran centrifuge to maintain LGS & MW in system.

SOLIDS CONTROL EQUIPMENT	SIZE	HOURS	U/F
Centrifuge #1	152		
Centrifuge #2	552S	11.0	
Derrick Shaker 1	210/210/210		
Derrick Shaker 2	210/210/210		
Derrick Shaker 3	210/210/210		

HYDRAULICS	
Ann Vel	(m/min)
DP/CSG	81.0
DP/OH	83.0
HW/OH	83.0
DC/OH	124.0
ECD	1.35

SCREENS USED

MUD VOLUMES	m3
ANNULAR VOLUME	56.4
STRING CAPACITY	18.5
ACTIVE PITS	50.1
TOTAL CIRC. VOLUME	125.0
RESERVE OBM	75.0
TOTAL VOLUME	200.0

CASING DATA	
9.625-in @1063 m (1017 TVD)	
SHOE TEST (EMW)	

MUD VOL ACCOUNTING (m3)	
STARTING VOL	231.1
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	
CHEMICAL ADDED	6.6
TOTAL VOLUME BUILT	6.6
FORMATION	1.4
SHAKERS	28.8
DUMPED /SOLIDS	
CENTRIFUGES	7.5
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	37.7
OBM T/F TO NEXT WELL	
ENDING VOLUME	200.0
CUM BUILT SECTION	69.7
CUM LOST SECTION	38.2

BIT DATA		STRING DATA			
TYPE : FM3563Z			LENGTH	OD	ID
SIZE:	8 3/4	CSG			
JETS:	5x16	DP1	1,925.60	5.000	4.276
		HWDP	129.00	5.000	3.000
		DC	28.40	6.500	2.750
TFA	0.982	Liner			

PUMP DATA		
PUMP SIZE 5.75x12 in	150 spm	589 gpm
OUTPUT@97% 0.093 bps	14.0	bbl/min
PUMP PRESSURE	2,573	psi
SURF. TO BIT		min
BOTTOMS UP TIME/STK.	25.3 min	3797 stk
TOTAL CIRC. TIME/STK.	56.1 min	8416 stk

8.75 " INTERVAL

SUT Central Plain 2B

OPERATOR :	SPUD : 28 Apr 07	DATE : 30 Apr 07	DEPTH TVD/MD m.	1,058	1,106
WELL NAME :	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGINEER : Slobodan Lazic / Chanin Wongdontri		
OPERATOR REP : Aung Kyaw/Yutthaphum D.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jui		

MUD TYPE : Versaclean OB	MUD PROPERTIES			
SAMPLE FROM			Active	
TIME SAMPLE TAKEN			20:00	
PIT/FLOWLINE TEMP. °C			53	
DEPTH MD (m)			1,106	
DEPTH TVD (m)			1,058	
MUD WEIGHT (sg)			1.28	
FUNNEL VISCOSITY (sec/qt)			58	
PLASTIC VISCOSITY (cp)			14	
YIELD POINT (lb/100 cu. ft²)			14	
GELS (lb/100 ft²) 10/10/30			14/25/29	
ES (volts)			716	
OIL WATER RATIO			80/20	
HTHP (cm³/30min) @ 250° F			2.4	
CAKE (32nd In. API/HTHP)			2	
RETORT SOLIDS (%vol)			15.5	
RETORT OIL (%vol)			67.5	
RETORT WATER (%vol)			17.0	
CORRECTED SOLIDS (%vol)			14.3	
% LGS			4.2	
% BAR			10.1	
LGS ppb			37.9	
BAR (ppb)			149.0	
ALKALINITY (Pom)			1.3	
EXCESS LIME (lb/bbl)			1.7	
CHLORIDE (mg/l)			31,000	
CACL2 (%)			22.2	
SAND CONTENT (% vol)			tr	
AVERAGE SOLIDS, spgr			3.7	
RHEOLOGY 600/300			42/28	
65°C 200/100			21/16	
6/3			10/9	
OOC %				

MUD PROPERTY SPEC.									
Weight	1.20 sg.	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20	YP	10-20
ES V.	600	Excess Lime	1-2	CaCl2%	20-22	6 RPM	8-10

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	75			2	73	$333.50
BENTONITE (M-I	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	212				212	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	192				192	
CAL CHLORIDE	25 kg / sx	210				210	
DUO-VIS	25 kg / sx	12				12	
ECOTROL RD	25 kg / sx	22				22	
ESCAID 110	1 m3 bk	97.64				97.64	
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	225			10	215	$63.50
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	151				151	
KCl (BB)	1 mt / sx	20				20	
OIL BASE MUD	1 m3 bk						
VERSACOAT IC	55 gal / dr	13				13	
VERSAGEL HT	25 kg / sx	159				159	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	14				14	
VERSATROL	50 lb / sx	107				107	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$397.00
PREVIOUS ENGR. TOTAL	$2,600	PREVIOUS CHEM. TOTAL	$42,270.79
CUM. ENGR. SERVICE	$3,900	CUM. CHEM. TOTAL	$42,667.79

COMMENTS / RECOMMENDATIONS

Cont. RIH to 780m. Tested MWD with no signal. POOH to change MWD tool. RIH to 690 m. Tested MWD without sucess. POH to change to another MWD tool. RIH to 1105m. P/U another tool. RIH t0 1077 m at report time.

SOLIDS CONTROL EQUIPMENT			
	SIZE	HOURS	U/F
Centrifuge #1	152		
Centrifuge #2	552S		
Derrick Shaker 1	165/165/165		
Derrick Shaker 2	165/165/165		
Derrick Shaker 3	165/165/165		

HYDRAULICS		
Ann Vel (m/min)		
DP/CSG		
DP/OH		
HW/OH		
DC/OH		
ECD	1.28	

SCREENS USED

MUD VOLUMES	m3
ANNULAR VOLUME	30.6
STRING CAPACITY	9.2
ACTIVE PITS	57.3
TOTAL CIRC. VOLUME	97.1
RESERVE OBM	134.0
TOTAL VOLUME	131.1
CASING DATA	
9.625-in @1063 m (1017 TVD)	
SHOE TEST (EMW)	

MUD VOL ACCOUNTING (m3)	
STARTING VOL	230.1
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	
CHEMICAL ADDED	1.0
TOTAL VOLUME BUILT	1.0
FORMATION	
SHAKERS	
DUMPED /SOLIDS	
CENTRIFUGES	
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	
OBM T/F TO NEXT WELL	
ENDING VOLUME	231.1
CUM BUILT SECTION	63.1
CUM LOST SECTION	0.5

BIT DATA		STRING DATA				PUMP DATA			
TYPE : FM3563Z			LENGTH	OD	ID	PUMP SIZE 5.75x12 in	spm	gpm
SIZE:	8 3/4	CSG				OUTPUT@97% 0.093 bps		bbl/min
JETS:	5x16	DP1	919.60	5.000	4.276	PUMP PRESSURE -		psi
		HWDP	129.00	5.000	3.000	SURF. TO BIT	#DIV/0!	min
		DC	28.40	6.500	2.750	BOTTOMS UP TIME/STK.		
TFA	0.982	Liner				TOTAL CIRC. TIME/STK.		

SUT Central Plain 2B

8.75 " INTERVAL

OPERATOR :	SPUD : 28 Apr 07	DATE : 29 Apr 07	DEPTH TVD/MD m.	1,058	1,106
WELL NAME :	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGINEER : Slobodan Lazic / Chanin Wongdontri		
OPERATOR REP : Aung Kyaw/Yutthaphum D.		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jul		

MUD TYPE : Versaclean OB	MUD PROPERTIES			
SAMPLE FROM			Active	
TIME SAMPLE TAKEN			22:30	
PIT/FLOWLINE TEMP. °C			54	
DEPTH MD (m)			1,106	
DEPTH TVD (m)			1,058	
MUD WEIGHT (sg)			1.28	
FUNNEL VISCOSITY (sec/qt)			58	
PLASTIC VISCOSITY (cp)			14	
YIELD POINT (lb/100 cu. ft²)			13	
GELS (lb/100 ft²) 10/10/30			14/25/29	
ES (volts)			722	
OIL WATER RATIO			80/20	
HTHP (cm³/30min) @ 250° F			2.4	
CAKE (32nd in. API/HTHP)			2	
RETORT SOLIDS (%vol)			15.5	
RETORT OIL (%vol)			67.5	
RETORT WATER (%vol)			17	
CORRECTED SOLIDS (%vol)			14.31	
% LGS			4.1	
% BAR			10.2	
LGS ppb			37.35	
BAR (ppb)			149.95	
ALKALINITY (Pom)			1.3	
EXCESS LIME (lb/bbl)			1.69	
CHLORIDE (mg/l)			31000	
CACL2 (%)			22.72	
SAND CONTENT (% vol)			tr	
AVERAGE SOLIDS, spgr			3.7	
RHEOLOGY 600/300			41/27	
65° C 200/100			21/16	
6/3			10/9	
OOC %				

Weight	1.20 sg.	HTHP FL	< 3.0 ml	OWR	75/25 - 80/20
ES V.	600	Excess Lime	1-2	CaCl2%	20-22

YP	10-20
6 RPM	8-10

MUD PROPERTY SPEC.

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	78			3	75	$500.25
BENTONITE (M-I	100 lb / sx	111				111	
CAL CARB (C)	50 kg / sx	212				212	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	192				192	
CAL CHLORIDE	25 kg / sx	315			105	210	$1,522.50
DUO-VIS	25 kg / sx	12				12	
ECOTROL RD	25 kg / sx	22				22	
ESCAID 110	1 m3 bk	128.87	14.77		44.00	97.64	$29,513.44
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	305			80	225	$508.00
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	211			60	151	$945.00
KCl (BB)	1 mt / sx	20				20	
OIL BASE MUD	1 m3 bk	168.50			168.50		
VERSACOAT IC	55 gal / dr	18			5	13	$2,000.00
VERSAGEL HT	25 kg / sx	182			23	159	$3,598.35
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	17			3	14	$1,074.60
VERSATROL	50 lb / sx	144			37	107	$997.15

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$40,659.29
PREVIOUS ENGR. TOTAL	$1,300	PREVIOUS CHEM. TOTAL	$1,611.50
CUM. ENGR. SERVICE	$2,600	CUM. CHEM. TOTAL	$42,270.79

COMMENTS / RECOMMENDATIONS

Ran 9 5/8" csg to 1063 mMD. Cemented as per program. Displaced hole to 1.28sg OBM. Dumped 2.5m3 of contaminated WBM with max 25% cement returned to surface. N/U BOP. RIH 8 3/4" BHA. Drill to 1106m/1058m TVD with no MWD signal. POH to test MWD at 237m. RIH back to 600 m. at report time

Prepared OBM premix. Dressed all shakers with 165 mesh screen. BJ used for cement job: 7 sx CaCl2, 60 sx KCl. Cleaned pits for OBM section. Redressed all shakers to 165 mesh screens prior to drill out cement.

SOLIDS CONTROL EQUIPMENT

	SIZE	HOURS	U/F
Centrifuge #1	152		
Centrifuge #2	552S		
Derrick Shaker 1	165/165/165	1.0	
Derrick Shaker 2	165/165/165	1.0	
Derrick Shaker 3	165/165/165	1.0	

HYDRAULICS

Ann Vel (m/min)	
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	1.28

SCREENS USED

MUD VOLUMES

	m3
ANNULAR VOLUME	36.6
STRING CAPACITY	4.8
ACTIVE PITS	54.7
TOTAL CIRC. VOLUME	96.1
RESERVE OBM	134.0
TOTAL VOLUME	230.1

CASING DATA

SHOE TEST (EMW)

MUD VOL ACCOUNTING (m3)

STARTING VOL	
OBM REC'D FROM PREV. WELL	168.5
OIL ADDED	44.0
WATER ADDED	12.3
CHEMICAL ADDED	5.8
TOTAL VOLUME BUILT	62.1
FORMATION	
SHAKERS	0.5
DUMPED /SOLIDS	
CENTRIFUGES	
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	0.5
OBM T/F TO NEXT WELL	
ENDING VOLUME	230.1
CUM. BUILT SECTION	62.1
CUM. LOST SECTION	0.5

BIT DATA

TYPE : FM3563Z	
SIZE:	8 3/4
JETS:	5x16
TFA	0.982

STRING DATA

	LENGTH	OD	ID
CSG			
DP1	442.60	5.000	4.276
HWDP	129.00	5.000	3.000
DC	28.40	6.500	2.750
Liner			

PUMP DATA

PUMP SIZE 5.75x12 in		spm	gpm
OUTPUT@97% 0.093 bps			bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK.			
TOTAL CIRC. TIME/STK.			

12.25 " INTERVAL

SUT Central Plain 2B

OPERATOR :	SPUD : 28 Apr 07	DATE : 28 Apr 07	DEPTH TVD/MD m.	1,023	1,069
WELL NAME : [illegible]	AREA : Sirikit Oilfield	RIG : GW80	MUD ENGR : Slobodan Lazic / Chanin Wongdontri		
OPERATOR REP : Sitaram/Aung Kyaw		CONTRACTOR: GWDC	CONTRACTOR REP : Han Min Jul		
MUD TYPE : Water/Native c[lay]	MUD PROPERTIES		MUD PROPERTY SPEC.		

MUD PROPERTY SPEC.

Weight	1.15 sg	HTHP FL		OWR	
YP		ES V		Excess Lime	
CaCl2%		6 RPM			

MUD PROPERTIES

SAMPLE FROM	Flowline		Active	
TIME SAMPLE TAKEN	10:30		17:00	
PIT/FLOWLINE TEMP. °C	48		50	
DEPTH MD (m)	590		1,069	
DEPTH TVD (m)	565		1,024	
MUD WEIGHT (sg)	1.1		1.13	
FUNNEL VISCOSITY (sec/qt)	33		35	
PLASTIC VISCOSITY (cp)	4		5	
YIELD POINT (lb/100 cu. ft²)	8		9	
GELS (lb/100 ft²) 10/10/30	5/7/9		7/9/11	
ES (volts)				
OIL WATER RATIO				
HTHP (cm³/30min) @ 250° F				
CAKE (32nd in. API/HTHP)				
RE[TO]RT SOLIDS (%vol)	4.0		5.0	
RE[TO]RT OIL (%vol)				
RETORT WATER (%vol)	96.0		95.0	
CORRECTED SOLIDS (%vol)	4.0		5.0	
% LGS	5.1		7.2	
% BAR	NA		NA	
LGS ppb	46.0		65.3	
BAR (ppb)	NA		NA	
ALKALINITY (Pom)				
EXCESS LIME (lb/bbl)				
CHLORIDE (mg/l)				
CACL2 (%)				
SAND CONTENT (% vol)				
AVERAGE SOLIDS, spgr	2.6		2.6	
RHEOLOGY 600/300	16/12		19/14	
65°[C] 200/100	9/6		10/8	
6/3	5/4		6/5	
OOC % (Brandt / Thule)				

MATERIALS USAGE & COSTS

MATERIAL		INITIAL	RECVD.	RETURN	USED	BAL.	COST
BARITE	1.5 mt / sx	78	16	16		78	
BENTONITE (M-	100 lb / sx	221			110	111	$1,611.50
CAL CARB (C)	50 kg / sx	152	60			212	
CAL CARB (F)	25 kg / sx						
CAL CARB (M)	50 kg / sx	152	40			192	
CAL CHLORIDE	25 kg / sx	245	70			315	
DUO-VIS	25 kg / sx	12				12	
ECOTROL RD	25 kg / sx	22				22	
ESCAID 110	1 m3 bk	126.87				126.87	
HRP	55 gal / dr	5				5	
LIME	25 kg / sx	105	200			305	
NOVATEC F	55 gal / dr	5				5	
KCl	25 kg / sx	211				211	
KCl (BB)	1 mt / sx	20				20	
OIL BASE MUD	1 m3 bk	168.50				168.50	
VERSACOAT IC	55 gal / dr	2	16			18	
VERSAGEL HT	25 kg / sx	152	30			182	
VERSAMOD	55 gal / dr	7				7	
VERSAMUL IC	55 gal / dr	9	8			17	
VERSATROL	50 lb / sx	84	60			144	

DAILY ENGR. SERVICE	$1,300	DAILY CHEM. COST	$1,6[1]1.50
PREVIOUS ENGR. TOTAL		PREVIOUS CHEM. TOTAL	
CUM. ENGR. SERVICE	$1,300	CUM. CHEM. TOTAL	$1,611.50

COMMENTS / RECOMMENDATIONS

Skidded to LKU-Z04(ZE). M/U 12.25" BHA. Spudded the well at 02.50 hours. Drilled to TD 1069mMD / 1024mVD. Carbide test indicated avr.hole size 12.73" and 12.96" peak. Backreamed out of hole. Bit on surface at report time.

Filled all active pits with water. Dressed all shakers with 200 mesh screens. Prepared Hi Vis Bentonite in slug pit. Dumped sand trap at 98m (12% sand), 212m (20% sand), 299m (18% sand), 444m (18% sand), 587m (10%), 760m (9% sand), 903m (7%sand), 1047m(6%sand). While backreaming dumped ST at:846m (5% sand), 616m (4% sand), 357m (4% sand). Bled Hi vis Bentonite to active after dumping sand trap. Rcvd 16 BB Barite from BKK. Returned 16 BB Barite from rig to WH LKU.

SOLIDS CONTROL EQUIPMENT

	SIZE	HOURS	U/F
Centrifuge #1	152	20	
Centrifuge #2	552S	20	
Derrick Shaker 1	210/210/210	20	
Derrick Shaker 2	210/210/210	20	
Derrick Shaker 3	210/210/210	20	

HYDRAULICS

Ann Vel	(m/min)
DP/CSG	
DP/OH	
HW/OH	
DC/OH	
ECD	

MUD VOLUMES

	m3
ANNULAR VOLUME	81.3
STRING CAPACITY	
ACTIVE PITS	43.3
TOTAL CIRC. VOLUME	124.3
RESERVE	
OBM AT M LOCATION	
TOTAL VOLUME	124.3

MUD VOL ACCOUNTING (m3)

STARTING VOL	
OBM REC'D FROM PREV. WELL	
OIL ADDED	
WATER ADDED	271.60
CHEMICAL ADDED	2.10
TOTAL VOLUME BUILT	273.70
FORMATION	
SHAKERS	28.00
DUMPED	99.00
CENTRIFUGES	22.40
TRIPS	
EVAPORATION	
LEFT BEHIND CASING	
TOTAL LOSSES	149.40
OBM T/F TO NEXT WELL	
ENDING VOLUME	124.30
CUM BUILT SECTION	273.70
CUM LOST SECTION	149.40

SCREENS USED

CASING DATA

SHOE TEST (EMW)	

BIT DATA

TYPE :	
SIZE:	12 1/4
JETS:	
TFA	

STRING DATA

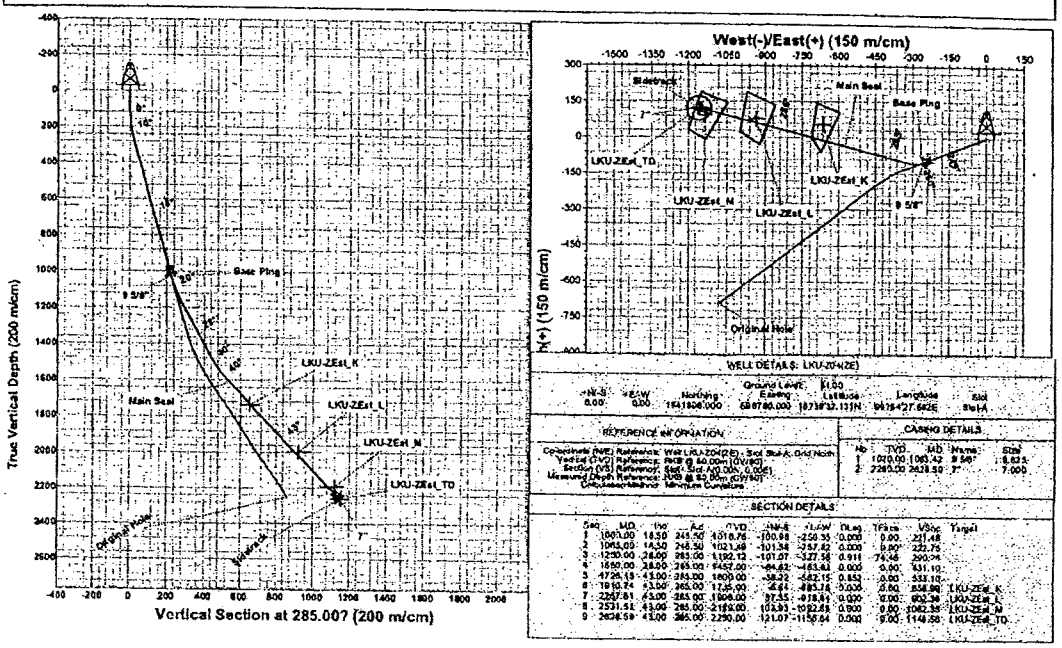
	LENGTH	OD	ID
CSG			
DP1			
HWDP			
DC			
Liner			

PUMP DATA

PUMP SIZE	5.75x12 in	spm	gpm
OUTPUT@ 97% .093 bps			bbl/min
PUMP PRESSURE			psi
SURF. TO BIT			min
BOTTOMS UP TIME/STK			
TOTAL CIRC. TIME/STK			

[illegible] 151.4

SUT Central Plain 2B



BIT AND HYDRAULICS PROGRAM

Hole Size (inch)	MD Interval (ft - RKB)	Bit Type *(or similar type)*	IADC Code	Nozzles (32nd inch)	RPM	WOB (KLBs)	Press (psi)	Flow Rate (gpm)	Liners (in)
26	0 - 120	CR1	1-1-1	20-20-20-18	80-100	10-20	450	1000	6-1/4"
17-1/2	120 - 600	MAX G-3	1-3-5	18-18-18	70-120	30-50	3200	900	6-1/4"
	600 - 1500	ATM-22	5-1-7	18-18-18	70-80	40-70	3200	900	6-1/4"
12-1/4	1,500 - 6,200	PDC *(3)*		13's	80-150	20-30	4000	600	5"
{Kick-off}	6,200 - 6,800	ATM-22 *(4)*	5-1-7	16-16-16	80-150	50-60	4000	600	5"
	6,800 - 10,200	ATM-33	5-3-7	16-16-16	80-150	50-60	4000	600	5"
8-1/2	10,200 - TD	ATJ-44	5-4-7	12-12-12	100-160	35-45	4000	400	5"

Notes:

1. Motors are planned to be used in each hole interval.
2. Guideline parameters indicated, actual drilling parameters will be adjusted to achieve optimum drilling performance.
3. 12-1/4" PDC bit recommendation and operating guidelines to be issued at a later date.
4. For Geological reasons, well is planned with a 45° B&H directional profile with KOP @ 6,200 ft. Consideration should be made to use an enhanced bearing and cutting structure motor bit to kick the well off (e.g., Smith Magnum 20 MFD or equivalent). Details will be transmitted to the rig at a later date.

BOTTOM HO[illegible] ASSEMBLIES - SURVEY REQUIREMEN[illegible]

Hole Size (inches)	WOB (Klbs)	Bottom Hole Assembly
26	10-20	26" bit, 9-5/8" F2000 straight housing motor, 26" stabilizer, 2 x 9-½" DC, 5" drill pipe.
17-1/2 (w/ motor)	30-50	17-1/2" bit, 9-5/8" F2000 straight housing motor, float sub, 9-½" NMDC, 17-1/2" stab, 4 x 9-½" DC, XO, 12 x 8-¼" DC, XO, 6 x 5" HWDP, 5" drill pipe.
17-1/2 (w/o motor)	40-70	17-1/2" bit, float sub, 9-½" NMDC, 9-½" DC, 17-1/2" stab, 4 x 9-½" DC, XO, 12 x 8-¼" DC, XO, 5" HWDP as req'd, 5" drill pipe.
12-1/4 (vertical)	20-30	12-¼" PDC bit, float sub, 8" NMDC, 8-¼" DC, 12-¼" stab, 8-¼" DC (as req'd), 6 x 5" HWDP, 6-½" Jars, HWDP as reqd, 5" drill pipe.
12-1/4 *(steerable)* {used to kick-off well}	50-60	12-¼" rock bit, 9-5/8" F2000 bent housing (± 1.25°) steerable motor, float sub, 8" Dir MWD, 1 x 8" NMDC, 12-¼" string stab, 2 x 8-¼" DC, 6 x 5" HWDP, 6-½" Jars, 5" HWDP as reqd, 5" DP.
12-1/4 (packed)	50-60	12-¼" rock bit, 12-¼" NB stab, 8" pony DC, 12-¼" stab, 8" Dir MWD (or 8" NMDC), 12-¼" NM stab, 8" NMDC, 12-¼" stab, 8-¼" DC as reqd,, XO, 6 x 5" HWDP, 6-½" Jars, 5" HWDP as reqd, 5" drill pipe.
8-1/2 (packed)	35-45	8-½" bit, 8-½" NB stab, 1 x 6-½" Monel Pony DC, 8-½" stab, 1 x 6-½" NMDC, 8-½" stab, 6-¼" DC as reqd, 6 x 5" HWDP, 6-½" Jars, 5" HWDP as reqd, 5" drill pipe.
8-1/2 *(steerable)* {if correction run is req'd}	20-30	8-½" rock bit, 6-3/4" F2000 bent housing (± 1.25°) steerable motor, float sub, 6-½" Dir MWD, 1 x 6-½" NMDC, 8-½" string stab, 2 x 6-¼" DC, 6 x 5" HWDP, 6-½" Jars, 5" HWDP as reqd, 5" DP.

SURVEY REQUIREMENTS

1. Magnetic single shot surveys shall be made at 500 foot intervals from spud to kick-off point and at casing points. If inclination only surveys (i.e., Totco's) are run, consideration will be made to tie subject interval in with a magnetic multishot or gyroscopic survey.

2. During directional drilling, magnetic single shot or MWD directional surveys shall be made as follows:
   a. every 30 feet or less during programmed angle change sections (building or turning).
   b. at intervals not exceeding 150 feet during angle "hold" sections.

MUD PROGRAM

Hole Size (In)	MD Interval (Ft)	Mud type	Mud Wt. (ppg)	Solids Volume (%)	PV	YP	API FL cc/30min	Oil/Water Ratio	pH	Cl G/L	CEC
26	0 - 120	Gel/Water	8.5 - 9.0	≤ 5	5 - 15	30-40	N/C	N/A	9.0 - 9.5	N/A	< 35
17-1/2	120 - 1500	± 15% KCL/Polymer	9.3 - 10.0	≤ 13	10 - 15	20-30	N/C	N/A	9.0 - 9.5	78,000	≤ 10
12-1/4	1500 - 10,200	Diesel OBM	7.0 - 9.0	≤ 8	20 - 30	10-30	< 10	90/10 - 85/15	N/A	N/A	N/A
8-1/2	10,200 - TD	± 6% KCL/Polymer	9.8 - 14.0	≤ 25	10 - 20	15-25	< 10	N/A	9.0 - 9.5	30,000	≤ 10

NOTES:

1) Hole conditions and/or abnormal pressure may dictate changes from the proposed guidelines. To maximize ROP and minimize lost returns potential, it is recommended that the minimum MW schedule listed above be followed as much as practical (i.e., until well/hole conditions indicate an increase in MW is required or if dilution required to maintain minimum MW becomes excessive). The mud engineer is expected to make any recommendations which he feels will improve this program and the overall well efficiency. Recommendations should be made to the Esso Operations Supervisor and Superintendent via the daily mud report.

2) Minimum of one complete mud check (in & out) per eight hours of drilling and a complete mud check on bottoms up after each trip is required. Mud checks while drilling will include in and out properties, with samples being taken after proper lag time (catch sample at suction pit, allow for cycle time, and catch sample at flowline). Mud properties to be measured at 120° F (API).

3) H.T.H.P. water loss will be run at 250° F and 500 psi or maximum anticipated B.H.T. (whichever is higher) and maintained at 12-15cc/ 30 minutes below the surface casing shoe. Filter cake description should be made at API conditions (120° F and 100 psi).

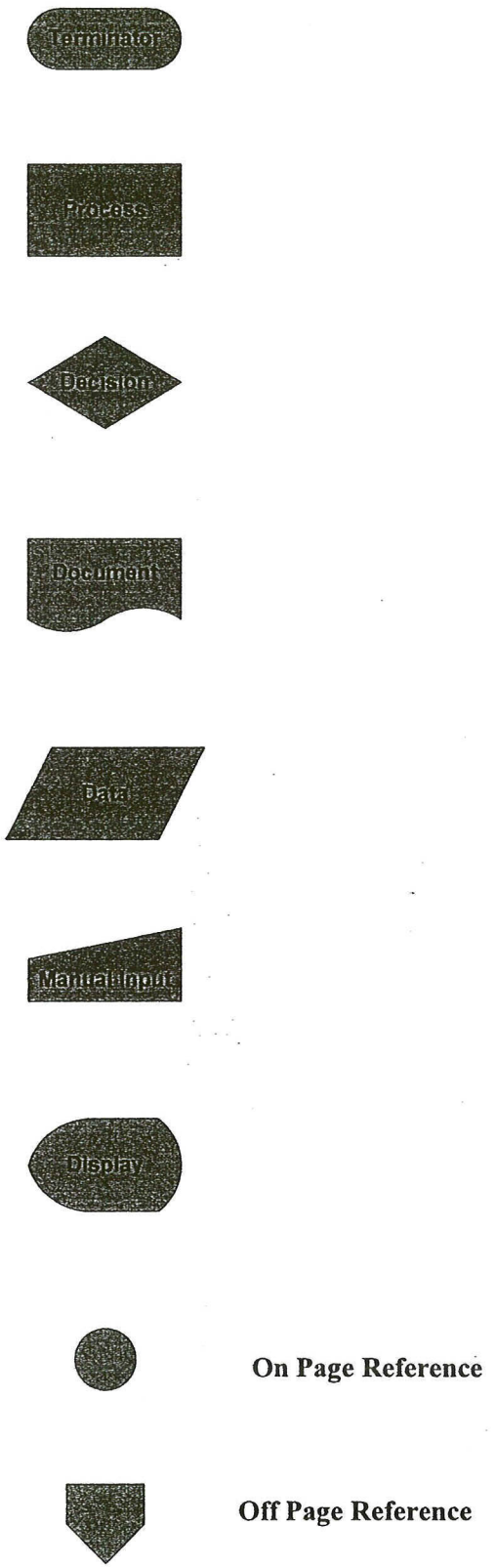
4) Consideration should be made to use Glycol/KCL/PHPA mud if used mud can be economically sourced for 17-1/2" hole section. Analysis should look at availability, volume of mud that can be returned, potential ROP enhancements and reduced disposal costs. Due to the inhibitive properties of Glycol, it may also be possible to reduce the KCL concentration of the mud system (e.g., 15% down to ± 8%).

5) Refer to Drilling Operations manual for Oil Base Mud Guidelines and Checklist. Ensure all personnel working near OBM wear appropriate Personnel Protective Equipment (PPE) and follow recommended safety precautions. To reduce time spent in critical path (*Fast Track*) and to minimize OBM contamination, consideration should be made to displace/bump 13-3/8" casing top wiper plug with OBM during cementing (may require additional mud tanks; active mud tanks can be dumped/cleaned while WOC and nippling up "A" section & BOP's).

ภาคผนวก ข

สัญลักษณ์ผังงานและ Source Code ของโปรแกรม PRE_HO

(Pressure Loss and Horse Power for Thailand Drilling Well)



รูปภาพ ค.1 สัญลักษณ์ผังงานของโปรแกรม PRE_HO (Pressure Loss and Horse Power for Thailand Drilling Well)

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Option Explicit
Private Sub calculation_Click()
Dim Ps, q, Vc, Vap, Re, f, Pp, Vac, Pc, de, d, deq, Pb, Vcc, Vccol, Vacc, Vacp, Vcp, Pac, Pap, Pt, HP, dea, Vahw, Vachw, Vchw,
Vcchw
Dim L, Ldp, Idp, Odp, Idc, Odc, Dh, Den, Vis, Y, V, M, inp, TF, Rate, Lhw, Ihw, Ohw, Phw, Pahw

L = Val(Text1.Text)
Ldp = Val(Text2.Text)
Idp = Val(Text3.Text)
Odp = Val(Text4.Text)
Lhw = Val(Text15.Text)
Ihw = Val(Text13.Text)
Ohw = Val(Text14.Text)
Idc = Val(Text5.Text)
Odc = Val(Text6.Text)
Dh = Val(Text10.Text)
Den = Val(Text7.Text)
Vis = Val(Text8.Text)
Y = Val(Text9.Text)
 V = Val(Text20.Text)
 M = Val(Text19.Text)
inp = Val(Text21.Text)
TF = Val(Text11.Text)
Rate = Val(Text12.Text)
If L = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Ldp = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Idp = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Odp = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Idc = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Odc = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Dh = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf ((Ldp + Lhw) > L) Then
MsgBox "Please check data input or Press Check Input button"
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ElseIf Den = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Vis = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf Y = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf V = 0 Then
MsgBox "Please check data input or Press Check Input button"
ElseIf M = 0 Then
MsgBox "Please check data input or Press Check Input button"
Else

If Rate = 0 Then
    If TF = 1 Then
    Vacp = 3
    q = 2.45 * (Dh ^ 2 - Odp ^ 2) * Vacp
    Text12.Text = Round(q, 2)
    ElseIf TF = 2 Then
    Vacp = 2.75
    q = 2.45 * (Dh ^ 2 - Odp ^ 2) * Vacp
    Text12.Text = Round(q, 2)
    Else: MsgBox "                Please Check the Type of formation" & vbCrLf & "Type 1 for Sort formation and Type 2
for Hard formation or Input Circulation rate"
    End If
Else: q = Val(Text12.Text)
Vacp = q / (2.45 * (Dh ^ 2 - Odp ^ 2))
Text12.Text = Round(q, 2)
Text11.Text = " "
End If

If (inp = 1) Then
Ps = (0.0007 * q ^ 2 + 0.0358 * q) * Den / 9.5
ElseIf (inp = 2) Then Ps = (0.00022 * q ^ 2 + 0.0149 * q) * Den / 9.5
ElseIf (inp = 3) Then Ps = (0.0003 * q ^ 2 + 0.0186 * q) * Den / 9.5
ElseIf (inp = 4) Then Ps = (0.0001 * q ^ 2 + 0.0081 * q) * Den / 9.5
ElseIf (inp = 5) Then Ps = (0.0001 * q ^ 2 - 0.0014 * q) * Den / 9.5
Else: MsgBox "Please insert type of Ps again,it's out of range"
End If

Vc = (1.08 * Vis + 1.08 * (Vis ^ 2 + 9.3 * Den * Idp ^ 2 * Y) ^ 0.5) / (Den * Idp)
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Vap = q / (2.45 * Idp ^ 2)

If (Vap > Vc) Then
Pp = Round(0.055 * (2970 * Den * Vap * Idp / Vis) ^ -0.2037 * Den * Ldp * Vap ^ 2 / (25.8 * Idp), 2)
Else
Pp = Round((Vis * Ldp * Vap) / (1500 * Idp ^ 2), 2)
End If

If (Lhw > 0) Then
Vchw = (1.08 * Vis + 1.08 * (Vis ^ 2 + 9.3 * Den * Ihw ^ 2 * Y) ^ 0.5) / (Den * Idp)
Vahw = q / (2.45 * Ihw ^ 2)
  If (Vahw > Vchw) Then
  Phw = Round(0.055 * (2970 * Den * Vahw * Ihw / Vis) ^ -0.2037 * Den * Lhw * Vahw ^ 2 / (25.8 * Ihw), 2)
  Else
  Phw = Round((Vis * Lhw * Vahw) / (1500 * Ihw ^ 2), 2)
  End If
Else
Phw = 0
End If

Vccol = (1.08 * Vis + 1.08 * (Vis ^ 2 + 9.3 * Den * Idc ^ 2 * Y) ^ 0.5) / (Den * Idc)
Vac = q / (2.45 * Idc ^ 2)
If (Vac > Vccol) Then
Pc = Round(0.055 * (2970 * Den * Vac * Idc / Vis) ^ -0.2037 * Den * (L - Ldp - Lhw) * Vac ^ 2 / (25.8 * Idc), 2)
Else
Pc = Round((Vis * (L - Ldp - Lhw) * Vac) / (1500 * Idc ^ 2), 2)
End If

de = (q / 1837.5) ^ 0.5
If (de < 0.282) Then
d = 0.188
ElseIf (de < 0.391) Then d = 0.375
ElseIf (de < 0.422) Then d = 0.406
ElseIf (de < 0.469) Then d = 0.438
ElseIf (de < 0.532) Then d = 0.5
ElseIf (de < 0.594) Then d = 0.563
ElseIf (de < 0.657) Then d = 0.625
ElseIf (de < 0.719) Then d = 0.688
ElseIf (de < 0.782) Then d = 0.75
ElseIf (de < 0.844) Then d = 0.813
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Else: d = 0.875
End If

deq = (3 * d ^ 2) ^ 0.5
Pb = Round(q ^ 2 * Den / (6705.58 * deq ^ 4), 2)

Vcc = ((1.08 * Vis) + 1.08 * (Vis ^ 2 + 9.3 * Den * (Dh - Odc) ^ 2 * Y) ^ 0.5) / (Den * (Dh - Odc))
Vacc = q / (2.45 * (Dh ^ 2 - Odc ^ 2))
If (Vacc <= Vcc) Then
Pac = Round(Vis * (L - Ldp - Lhw) * Vacc / (1500 * (Dh - Odc) ^ 2), 2)
Else
Pac = Round((0.0331 * ((2970 * Den * Vacc * (Dh - Odc)) / Vis) ^ (-0.1359)) * Den * (L - Ldp - Lhw) * (Vacc ^ 2) / (25.8 * (Dh -
Odc)), 2)
End If

If (Lhw > 0) Then
Vcchw = ((1.08 * Vis) + 1.08 * (Vis ^ 2 + 9.3 * Den * (Dh - Ohw) ^ 2 * Y) ^ 0.5) / (Den * (Dh - Ohw))
Vachw = q / (2.45 * (Dh ^ 2 - Ohw ^ 2))
  If (Vachw <= Vcchw) Then
  Pahw = Round(Vis * (Lhw) * Vachw / (1500 * (Dh - Ohw) ^ 2), 2)
  Else
  Pahw = Round((0.0331 * ((2970 * Den * Vachw * (Dh - Ohw)) / Vis) ^ (-0.1359)) * Den * (Lhw) * (Vachw ^ 2) / (25.8 * (Dh -
Ohw)), 2)
  End If
Else
Pahw = 0
End If

Vcp = (1.08 * Vis + 1.08 * (Vis ^ 2 + 9.3 * Den * (Dh + Odp) ^ 2 * Y) ^ 0.5) / (Den * (Dh - Odp))
If (Vacp > Vcp) Then
Pap = Round(0.03 * (2970 * Den * Vacp * (Dh - Odp) / Vis) ^ -0.1359 * Den * Ldp * Vacp ^ 2 * (25.8 * (Dh - Odp)), 2)
Else
Pap = Round((Ldp * Y / (300 * (Dh - Odp))) + Vis * Vacp * Ldp / (1500 * (Dh - Odp) ^ 2), 2)
End If

Pt = Round(Ps + Pp + Phw + Pc + Pb + Pac + Pap + Pahw, 2)

HP = Round(q * Pt / (1714 * V * M), 2)

Label59.Caption = Round(Vacp, 2)
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Label44.Caption = Round(Ps, 2)
Label45.Caption = Pp
Label46.Caption = Pc
Label47.Caption = Pb
Label48.Caption = Pac
Label49.Caption = Pap
Label50.Caption = Pt
Label51.Caption = HP
End If
End Sub

Private Sub Check_Click()
Dim Ps, q, Vc, Vap, Re, f, Pp, Vac, Pc, de, d, deq, Pb, Vcc, Vccol, Vacc, Vacp, Vcp, Pac, Pap, Pt, HP, dea
Dim L, Ldp, Idp, Odp, Idc, Odc, Dh, Den, Vis, Y, V, M, inp, CH, Rate, TF, Lhw, Ihw, Ohw

Vacp = 3
L = Val(Text1.Text)
Ldp = Val(Text2.Text)
Lhw = Val(Text15.Text)
Idp = Val(Text3.Text)
Odp = Val(Text4.Text)
Idc = Val(Text5.Text)
Odc = Val(Text6.Text)
Dh = Val(Text10.Text)
Den = Val(Text7.Text)
Vis = Val(Text8.Text)
Y = Val(Text9.Text)
 V = Val(Text20.Text)
 M = Val(Text19.Text)
inp = Val(Text21.Text)
TF = Val(Text11.Text)
Rate = Val(Text12.Text)

If (L <= 50) Then
MsgBox "Total Depth should be between 50 to 99,999 ft", vbOKOnly
ElseIf (L > 99999) Then MsgBox "Total Depth should be between 50 to 99,999 ft", vbOKOnly
ElseIf (Ldp < 50) Then MsgBox "Please Check the length of Drillpipe ", vbOKOnly
ElseIf (Ldp > L) Then MsgBox "Please Check the length of Drillpipe ", vbOKOnly
ElseIf (Idp = 0) Then MsgBox "Please Check Inside Drillpipe Diameter ", vbOKOnly
ElseIf (Odp = 0) Then MsgBox "Please Check Outside Drillpipe Diameter ", vbOKOnly
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ElseIf (Ldp < Lhw) Then MsgBox "Please Check the length of Drillpipe or Drillcollar", vbOKOnly
ElseIf ((Ldp + Lhw) > L) Then MsgBox "Please Check the length of Drillpie or Heavy Weight Drillpipe or Drillcollar", vbOKOnly
ElseIf (Idp > Odp) Then MsgBox "Please Check Diameter of Drillpipe ", vbOKOnly
ElseIf (Idc > Odp) Then MsgBox "Please Check Diameter of Drillpipe or Drillcollar ", vbOKOnly
ElseIf (Idc >= Odc) Then MsgBox "Please Check Diameter of Drillcollar ", vbOKOnly
ElseIf (Dh <= Odp) Then MsgBox "Please Check Bit dimeter", vbOKOnly
ElseIf (Den <= 5) Then MsgBox "The Mud Density should be between 5 - 25 lb/gal", vbOKOnly
ElseIf (Dh <= (Odc + 0.5)) Then MsgBox "Please Check Bit dimeter", vbOKOnly
CH = 1
ElseIf (Den > 25) Then MsgBox "The Mud Density should be between 8 - 25lb/gal", vbOKOnly
ElseIf (M < 0.8) Then MsgBox "The mechanical efficiency should be between 0.8 - 1.0", vbOKOnly
ElseIf (M > 1) Then MsgBox "The mechanical efficiejncy should be between 0.8 - 1.0", vbOKOnly
ElseIf (V < 0.9) Then MsgBox "The volumetric efficiency should be between 0.9 - 1.0", vbOKOnly
ElseIf (V > 1) Then MsgBox "The volumetric efficiency should be between 0.9 - 1.0", vbOKOnly
ElseIf (TF > 0 & Rate > 0) Then MsgBox " Please selected formation type or input the circurate rate", vbOKOnly
Else: MsgBox "Please Run the Horse Power Calculation", vbOKOnly
calculation.Visible = True
End If
End Sub

Private Sub formation_Click()
MsgBox "      Please input the formation Type (Soft formation type 1 eg. Shale  for estimate the velocity of mud flow around
drillpipe 3 ft/sec and " & vbCrLf & "Hard formation type 2 eg.  Granular or Carbonate for estimate the velocity of mud flow
around drillpipe 2.75 ft/sec ) or input the circulation rate "
End Sub

Private Sub print_Click()

  Printdlg.ShowPrinter
  Printer.Print " "
  Printer.Print " "
  Printer.Print "            Data Input"
  Printer.Print "
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  Printer.Print "      Total Depth  = " & Text1.Text & Label14.Caption
  Printer.Print "      Drillpipe Length  = " & Text2.Text & Label15.Caption
  Printer.Print "      Inside Drillpipe Diameter  = " & Text3.Text & Label16.Caption
  Printer.Print "      Outside Dripipe Diameter  = " & Text4.Text & Label17.Caption
  Printer.Print "      Heavy Weight Drillpipe Length = " & Text15.Text & Label65.Caption
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Printer.Print "      Inside Heavy Weight Drillpipe Diameter = " & Text13.Text & Label62.Caption
Printer.Print "      Outside Heavy Weight Drillpipe Diameter = "; Text14.Text & Label64.Caption
Printer.Print "      Inside Drillcollar Diameter  =  " & Text5.Text & Label18.Caption
Printer.Print "      Outside Drillcollar Diameter  =  " & Text6.Text & Label19.Caption
Printer.Print "      Bit Size   =  " & Text10.Text & Label23.Caption
Printer.Print "      Mud Density   =  " & Text7 & Label20.Caption
Printer.Print "      Mud Viscosity  =  " & Text8.Text & Label21.Caption
Printer.Print "      Bingham's Yield Value  =  " & Text9.Text & Label22.Caption
Printer.Print "      Mechanical Efficiency  =  " & Text19.Text
Printer.Print "      Volumetric Efficiency  =  " & Text20.Text
Printer.Print "      Circuration Rate  =  " & Text12.Text & Label57.Caption

Dim TFP, SUR
  TFP = Val(Text11.Text)
  If TFP = 1 Then
  Printer.Print "      Soft Formation"
  ElseIf TFP = 2 Then
  Printer.Print "      Hard Formation"
  Else: Printer.Print "      Type of formation not available"
  End If

  SUR = Val(Text21.Text)
  If SUR = 1 Then
  Printer.Print "      Surface Pressure Loss is Type 1"
  ElseIf SUR = 2 Then
  Printer.Print "      Surface Pressure Loss is Type 2"
  ElseIf SUR = 3 Then
  Printer.Print "      Surface Pressure Loss is Type 3"
  Else: Printer.Print "      Surface Pressure Loss is Type 4"
  End If

Printer.Print " "
Printer.Print " "
Printer.Print " "
Printer.Print " "
Printer.Print "            Pressure Loss and Horse Power"
Printer.Print "
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="
  Printer.Print "      Mud Velocity around Drillpipe  =  " & Label59.Caption & Label60.Caption
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    Printer.Print "      Surface Pressure Loss  =  " & Label44.Caption & Label32.Caption
    Printer.Print "      Pressure Loss inside Drillpipe  =  " & Label45.Caption & Label33.Caption
    Printer.Print "      Pressure Loss inside Drillcollar  =  " & Label46.Caption & Label34.Caption
    Printer.Print "      Pressure Loss across Bit  =  " & Label47.Caption & Label35.Caption
    Printer.Print "      Pressure Loss in annulus around Drillcollar  =  " & Label48.Caption & Label36.Caption
    Printer.Print "      Pressure Loss in annulus around Drillpipe  =  " & Label49.Caption & Label37.Caption
    Printer.Print "      Total Pressure Loss  =  " & Label50.Caption & Label38.Caption
    Printer.Print "      Horse Power Required  =  " & Label51.Caption & Label39.Caption

    Printer.EndDoc

End Sub

Private Sub CLEAR_Click()
Text1.Text = " "
Text2.Text = " "
Text3.Text = " "
Text4.Text = " "
Text5.Text = " "
Text6.Text = " "
Text10.Text = " "
Text7.Text = " "
Text8.Text = " "
Text9.Text = " "
Text19.Text = " "
Text20.Text = " "
Text11.Text = " "
Text13.Text = " "
Text14.Text = " "
Text15.Text = " "
Text21.Text = " "
Text12.Text = " "
End Sub

Private Sub Type_Click()
MsgBox " Component          No.1          No.2          No.3          No.4" &
vbCrLf & "          Id  Length      Id  Length      Id  Length      Id  Length" &
vbCrLf & "-Standpipe    3   40      3.5   40      4   45      4   45" &
vbCrLf & "-Horse        2   45      2.5   55      3   55      3   55" &
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vbCrLf & "-Swivel wash pip gooseneck      2     4          2.5     5          2.5     5          3     6" &
vbCrLf & _
"-Kelly                    2.25    40          3.25    40          3.25    40          4     40", vbOKOnly,
"Instruction"
End Sub

Private Sub exit_Click()

 End

End Sub
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