

## DAILY OPERATIONS PARTNER REPORT

Date: 03/22/2012  
Report No: 1

[illegible]

**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

**Date:** 03/22/2012  
**Report No:** 1

**OPERATIONS**

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	01MIRU	LOCMOV	RD	P	RIG DOWN / PREPARE FOR RIG MOVE
6:00	12:00	6.00	01MIRU	LOCMOV	RD	P	RIG DOWN / PREPARE FOR RIG MOVE
12:00	18:00	6.00	01MIRU	LOCMOV	RD	P	RIG DOWN / PREPARE FOR RIG MOVE
18:00	0:00	6.00	01MIRU	LOCMOV	RD	P	RIG DOWN / PREPARE FOR RIG MOVE
							STARTED SCOPING DERRICK DOWN @ 18:30 HRS DERRICK LAYED OVER @ 19:30 HRS
Total Time		24.00					

**Safety Incident?** N **Days since Last RI:** 77.00 **Weather Comments:**

**Environ Incident?** N **Days since Last LTA:** 440.00

**Incident Comments:**

No incidents reported last 24 hours

**Other Remarks:**

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.

TRAILER TEL NUMBER: (713) 948-3590

FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

SAFETY TOPIC OF THE DAY: RIGGING DOWN

DAYS WORKED WITH NO LTA: 440

DAYS SINCE LAST RI: 77

NUMBER SAFETY MEETINGS: 11

NUMBER NEAR MISSES: 0

STOP CARDS: 10

DAILY JSA'S REVIEWED: 8

PERMITS TO WORK: X

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED THIRD PARTY VEHICLE BACKING IN WITHOUT A SPOTTER. STOPPED THE JOB INFORMED HIM OF OXY POLICY, HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT

TOTAL PT HRS FOR THE MONTH: 105.5

## DAILY OPERATIONS PARTNER REPORT

Date: 03/23/2012  
Report No: 2

**24-Hr Forecast:** RR 04/05/2012, ROL 04/06/2012: R/U, SPUD UNIVERSITY CASEY #8 & DRILL 12.25" SURFACE HOLE TO 1850', TOH AND RUN 9 5/8" SURFAC

[illegible][illegible]

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
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## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 03/23/2012  
Report No: 2

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	6:00	6.00	01MIRU	LOCMOV	RD	P	RIG DOWN / PREPARE FOR RIG MOVE
6:00	8:00	2.00	01MIRU	LOCMOV	RD	P	WAITING ON DAY LIGHT
8:00	12:00	4.00	01MIRU	LOCMOV	MOVE	P	7:50 Safety meeting 33 people present,went over all power lines and route. Went over Stop Job authority that everyone has and needs rouse if the job does not look right,swampers and flaggers need to have good eye and hand contact with everyone.Tag lines to be used on all single pick loads, 100%tied off when you are over four foot from the ground.Horn usage at all times one forward and two to back up.Watch out for everyone , use the buddy system,and Stay Hydrated. 8:15 Choke manifold off location & pipe basket 8:25 load of pipe and pipe racks off location 8:30 Pipe basket load off location 8:45 Diesel and change house and Oil & parts skid off location 8:55 Generator and Silo off location 9:00 Top house off location 9:05 Wrangler and pipe basket off location 9:15 Pipe and racks off location 9:25 Mud pump motor & pipes with racks 9:35 BOP and pipe basket with racks off location 9:45 Gas Seperator off location 10:15 Derrick and Sub off location 10:25 Rig Mgr house off location 10:30 Shaker pit and Silo off location 11:20 Mud pit off , stopped swamper had him put on gloves,he complied (10) 11:40 load of flair lines and pipe off location 12:00 Mud pump motor and Pre-mix pit off location
12:00	15:30	3.50	01MIRU	LOCMOV	MOVE	P	MOVING IN AND SPOTTING EQUIPMENT BUTCHES TRUCKING OFF OF LOCATION  SAFETY BREAK: BUFFER ZONES
15:30	20:30	5.00	01MIRU	LOCMOV	RU	P	RIG UP ON CASEY # 8  DERRICK IN THE AIR @ 18:00 HRS DERRICK FULLY SCOPED UP @ 20:30 HRS  SAFETY BREAK: RAISING AND SCOPING UP DERRICK
20:30	0:00	3.50	01MIRU	LOCMOV	RU	P	RIGGING UP FLOOR, CONDUCTOR, FLOWLINE ,HYDRAULIC LINES ETC  SAFETY BREAK: RIGGING UP
Total Time		24.00					

Safety Incident? N Days since Last RI: 78.00 Weather Comments:

Environ Incident? N Days since Last LTA: 441.00

## Incident Comments:

No incidents reported last 24 hours.

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
TRAILER TEL NUMBER: (713) 948-3590  
FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

SAFETY TOPIC OF THE DAY: RIGGING DOWN  
DAYS WORKED WITH NO LTA: 441  
DAYS SINCE LAST RI: 78  
NUMBER SAFETY MEETINGS: 4  
NUMBER NEAR MISSES: 0  
STOP CARDS: 2  
DAILY JSA'S REVIEWED: 8  
PERMITS TO WORK: X  
LO/TO: X  
PRE-SPUD INSPECTION: X  
POWER-LINE CHECK LIST: X  
SWA'S: X  
BEST STOP CARD OF THE DAY : THIRD PARTY HAND WAS WITHIN BUFFER ZONE OF THE FORKLIFT, JOB WAS STOPPED AND THE DANGER EXPLAINED TO HIM. THE HAND COMPLIED, WORK CONTINUED WITHOUT INCIDENT.

TOTAL PT HRS FOR THE MONTH: 105.5

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/24/2012  
 Report No: 3

Wellbore / Top MD: 00 @ 44 ft Rig: SAVANNA 643 Ref Datum: Original KB @3,045.10ft DFS: 0.75  
 Today's MD: 1366 ft Progress: 1310 ft Ground Elev: 3,029.70 ft Daily Cost: \$39,695  
 Prev MD: 56 ft Rot Hrs Today: 13.50 hr AFE MD/Days: 11,400.0 / 13.6 days Cum Cost: \$90,548  
 PBMD: Avg ROP Today: 97.0 ft/hr AFE Number: 1145637#0102 AFE Cost: \$1,224,234

Current Formation: @ Lithology:

Current Ops:

24-Hr Summary: R/U,SPUD THE CASEY # 8 AND DRILL 12 1/4" SURFACE HOLE

24-Hr Forecast: RR 04/05/2012, ROL 04/06/2012: DRILL 12 1/4" HOLE TO 1870', TOH, RUN 9 5/8" CASING, PUMP CEMENT JOB,N/U

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	14.000in @ 56ft	Str Wt Up/Dn:	75.0 / 74.0 kip	Pump Rate:	709.4	Conn:	0	0
Next Casing:	9.625in @ 1,870ft	Str Wt Rot:	75.0 kip	Pump Press:	1200	Trip:	0	0
Last BOP Press Test:	03/12/2012	Torq Off Btm:	5,000.0 ft-lbf			Backgr:	0	0
Form Test/EMW:		Torq On Btm:	8,000.0 ft-lbf					

PERSONNEL		SURVEY DATA (LAST 6)							
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS
Supervisor 2:	DARRELL WERTHER	1,031.0	0.70	0.00	1,030.98	4.1	0.0	4.1	0.11
Engineer:	IVAN OTERO	505.0	0.10	0.00	505.00	0.4	0.0	0.4	0.02
Geologist:	TIM LYONS	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00
Oxy Personnel:	2								
Contractor Personnel:	14								
Total on Site:	16								

BIT RECORD										
Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
1	12.250	ULTERRA DRILLING T	U519M	M14545	M323	7x11	56	1870	0-0-NO-A	0-I-NO-TD

BIT OPERATING PARAMETERS TODAY												
Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
1	13.50	13.50	1310	1310	97.0	97.0	10.0/15.0	85/100	0.650	941	349.7	3.3

MUD DATA - M-I SWACO			LAST OR CURRENT BHA					
Engineer: Tyler Allen	MBT:	0.0 lbm/bbl	BHA No: 1	Bit No: 1	MD In:	56 ft		
Sample From: In	pH:	7.5	Purpose:		MD Out:	1870 ft		
Mud Type: Freshwater	Pm / Pom:	0.00	Component		OD	ID	Jts	Length
Time / MD: 16:00 / 387.0	Pf / Mf:	0.0 / 0.2	HWDP		4.500	2.875	12	364.45
Density @ Temp: 8.40 / 75	Chlorides:	1,000	DRILL COLLAR		6.500	2.940	12	349.91
Rheology Temp: 120	Ca+ / K+:	440 / 0	CROSSOVER		6.500	2.500	1	2.91
Viscosity: 27.00	CaCl2:	0.00	SPIRAL DRILL COLLAR		7.930	2.750	2	61.49
PV / YP: 1 / 1	Clom:	0.00	MWD TOOL		8.000	2.750	1	4.93
Gels 10s/10m/30m: 1 / 1 / 1	Lime:	0.00	NEAR BIT STABILIZER		8.310	2.130	1	6.86
API WL: 45.00	ES:	0.00	SPIRAL DRILL COLLAR		8.125	2.880	1	30.84
HTHP WL: 0.00	ECD:	0.00	NEAR BIT STABILIZER		8.310	2.130	1	5.90
Cake API / HTHP: .0 / .0	n / K:	0.00 / 0.000	SHOCK SUB		8.125	2.000	1	12.83
Solids / Sol Corr: 0.00 / 0.00	Carbonate:	0 ppm	PDC BIT		12.250		1	1.25
Oil / Water: 0.0 / 99.6	Bicarbonate:	0 ppm						
Sand: 0.01	Form Loss:	0.0 / 0.0						
Water Added: 500.0 bbl	Fluid Disch:	/						
Oil Added:								
LGS: 0.40 / 4.10								
VG Meter: 1@3 / 1@6 / 1@100 / 1@200 / 2@300 / 3@600			Total Length: 841.37 ft Wt below Jars:					
Comments: Last 24 hours; completed rig move and completed rigging up rig. Began picking up BHA and running in hole. Drill ahead to								

MUD PRODUCTS		
Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
DRIVE-BY ENGINEERING	EACH	1.00
DUO-VIS	BG,25 LB	1.00
LIME	BG,50 LB	8.00
MF-55	CAN,5 GA	3.00
M-I GEL BULK	TON	40.00
MY LO JEL	BG,50 LB	5.00
MYACIDE GA25	CAN,5 GA	1.00
PECAN NUT PLUG CSE	BG,50 LB	9.00
POLY-PLUS	CAN,5 GA	4.00
PREMIX PIT	EACH	1.00
SOAP STICK	EACH	60.00

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 03/24/2012  
Report No: 3

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	01MIRU	LOCMOV	RU	P	RIGGING UP FLOOR, CONDUCTOR, FLOWLINE ,PUT BHA #1 ON RACKS AND STRAP, SLIP AND CUT DRILLING LINE.  GRABBER BOX MALFUNCTIONED ON TOP DRIVE WILL NOT OPEN  NOTIFIED TRRC SPOKE WITH AUDREY @ 03:00 HRS COULDN'T RETRIEVE JOB # BECAUSE OF WEEKEND  REVIEW JSA OVER SLIP AND CUT DRILLING LINE
4:00	5:00	1.00	06PRES	SAFE	PJSM	P	HOLD PRE SPUD INSPECTION AND PJSM ON PICKING UP BHA ACCEPT RIG @ 05:00 HRS
5:00	6:00	1.00	14SUDR	DRILL	ROTVR	P	PICK UP BHA AND SPUD 12.25" SURFACE HOLE  PICK UP BHA AS FOLLOWS: 1) 12 1/4" PDC BIT (ULTERRA) 2) SHOCK SUB BORED FOR FLOAT 3) ROLLER REAMER (1/8") UNDER GAUGE 4) 1- 8" DC 5) ROLLER REAMER (1/8") UNDER GAUGE 6) 1-FLOW DRIFT 7) 2- 8" DC 8) 1- XO 6 1/2"XO, X 6 5/8" REG 9) 12 - 6 1/2" DC 10)12 - 4 1/2" HWDP
6:00	6:30	0.50	14SUDR	SAFE	PJSM	P	PRESPOD WITH CREWS, RM AND DSM
6:30	8:30	2.00	14SUDR	DRILL	ROTVR	P	MAKE UP SURFACE BHA
8:30	9:00	0.50	14SUDR	DRILL	ROTVR	P	FILL PIPE AND TEST ALL SURFACE EQUIPMENT
9:00	10:30	1.50	14SUDR	RIGMT	REP	P	CHANGE OUT WASH PIPE PACKING
10:30	15:00	4.50	14SUDR	DRILL	ROTVR	P	DRILL 12 1/4" SURFACE HOLE FROM 40' TO 301' , 261' AVG ROP 58 FPH WOB 5-15K. TD RPM 95-100, FLOW RATE 700 GPM, PUMP PSI 650 . 4K ON BTM.  CIRCULATE OUTSIDE RESERVE  PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE  SAFETY BREAK: PICKING UP DC'S
15:00	18:00	3.00	14SUDR	DRILL	ROTVR	P	DRILL 12 1/4" SURFACE HOLE FROM 301' TO 628' , 327' AVG ROP 109 FPH WOB 10K. TD RPM 95-100, FLOW RATE 700 GPM, PUMP PSI 900 4K ON BTM.  CIRCULATE OUTSIDE RESERVE  SURVEY @ 505' .10 DEG  PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE  SAFETY BREAK: AWARENESS WHILE FAST HOLING
18:00	22:00	4.00	14SUDR	DRILL	ROTVR	P	DRILL 12 1/4" SURFACE HOLE FROM 628' TO 1100' , 472' AVG ROP 118 FPH WOB 10K. TD RPM 95-100, FLOW RATE 700 GPM, PUMP PSI 1100 8K ON BTM.  CIRCULATE OUTSIDE RESERVE CIRCULATE STEEL PITS @ 900' SURVEY @ 1031' .70 DEG  PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE  SAFETY BREAK: PREVENTATIVE MAINTENANCE

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/24/2012  
 Report No: 3

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
22:00	0:00	2.00	14SUDR	DRILL	ROTVR	P	DRILL 12 1/4" SURFACE HOLE FROM 1100" TO 1366', 266' AVG ROP 133 FPH WOB 10K. TD RPM 95-100, FLOW RATE 700 GPM, PUMP PSI 1100 8K ON BTM.  CIRCULATE STEEL PITS  PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE  SAFETY BREAK: STAYING HYDRATED

Total Time 24.00

Safety Incident? N Days since Last RI: 79.00 Weather Comments:

Environ Incident? N Days since Last LTA: 442.00

## Incident Comments:

No incidents reported last 24 hours.

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
 TRAILER TEL NUMBER: (713) 948-3590  
 FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS  
 DAYS WORKED WITH NO LTA: 442

DAYS SINCE LAST RI: 79

NUMBER SAFETY MEETINGS: 4

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 10

PERMITS TO WORK: X

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE MIXING MUD WITHOUT RESPIRATOR. STOPPED HIM WARNED HIM OF THE HAZARDS AND OXY POLICY HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT.

TOTAL PT HRS FOR THE MONTH: 105.5

## DAILY OPERATIONS PARTNER REPORT

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

Date: 03/25/2012  
Report No: 4

<b>Wellbore / Top MD:</b>	00 @ 44 ft	<b>Rig:</b>	SAVANNA 643	<b>Ref Datum:</b>	Original KB @3,045.10ft	<b>DFS:</b>	1.75
<b>Today's MD:</b>	1870 ft	<b>Progress:</b>	504 ft	<b>Ground Elev:</b>	3,029.70 ft	<b>Daily Cost:</b>	\$143,442
<b>Prev MD:</b>	1366 ft	<b>Rot Hrs Today:</b>	6.50 hr	<b>AFE MD/Days:</b>	11,400.0 / 13.6 days	<b>Cum Cost:</b>	\$233,990
<b>PBMD:</b>		<b>Avg ROP Today:</b>	77.5 ft/hr	<b>AFE Number:</b>	1145637#0102	<b>AFE Cost:</b>	\$1,224,234

<b>Current Formation:</b>	@	<b>Lithology:</b>
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**Current Ops:**

**24-Hr Summary:** TD SURFACE HOLE @ 1870'.TOH,RUN 9 5/8" SURFACE CASING,PUMP CEMENT JOB CIRCULATING 31BBLS (99 SX) TO SURFACE,CUT OF

**24-Hr Forecast:** RR 04/05/2012, ROL 04/06/2012WELD ON HEAD,TEST TO 1414PSI,N/U, PSI TEST BOP AND SURFACE EQUIPMENT, TIH WITH BHA#2,DRILL

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS		Avg		Max	
Last Casing:	14.000in @ 56ft	Str Wt Up/Dn:	85.0/ 84.0 kip	Pump Rate:	703.5	Conn:	0		0		
Next Casing:	9.625in @ 1,870ft	Str Wt Rot:	85.0 kip	Pump Press:	1300	Trip:	0		0		
Last BOP Press Test:	03/12/2012	Torq Off Btm:	5,000.0 ft-lbf			Backgr:	0		0		
Form Test/EMW:		Torq On Btm:	10,000.0 ft-lbf								

[illegible]

## BIT RECORD

[illegible]

## BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
1	6.50	20.00	504	1814	77.5	90.7	10.0/15.0	90/100	0.650	898	345.7	3.1

## MUD DATA - M-I SWACO

<b>Engineer:</b>	Tyler Allen	<b>MBT:</b>	0.0 lbm/bbl
<b>Sample From:</b>	In	<b>pH:</b>	7.5
<b>Mud Type:</b>	Freshwater	<b>Pm / Pom:</b>	0.00
<b>Time / MD:</b>	23:00 / 1,780.0	<b>Pf / Mf:</b>	0.0 / 0.2
<b>Density @ Temp:</b>	8.40 / 0	<b>Chlorides:</b>	1,000
<b>Rheology Temp:</b>	120	<b>Ca+ / K+:</b>	440 / 0
<b>Viscosity:</b>	27.00	<b>CaCl2:</b>	0.00
<b>PV / YP:</b>	1 / 1	<b>Clom:</b>	0.00
<b>Gels 10s/10m/30m:</b>	1 / 1 / 1	<b>Lime:</b>	0.00
<b>API WL:</b>	45.00	<b>ES:</b>	0.00
<b>HTHP WL:</b>	0.00	<b>ECD:</b>	0.00
<b>Cake API / HTHP:</b>	.0 / .0	<b>n / K:</b>	0.00 / 0.000
<b>Solids / Sol Corr:</b>	0.00 / 0.00	<b>Carbonate:</b>	0 ppm
<b>Oil / Water:</b>	0.0 / 99.6	<b>Bicarbonate:</b>	0 ppm
<b>Sand:</b>	0.01	<b>Form Loss:</b>	0.0 / 0.0
<b>Water Added:</b>	0.0 bbl	<b>Fluid Disch:</b>	/
<b>Oil Added:</b>			
<b>LGS:</b>	0.40 / 4.10		

**VG Meter:** 1@3 / 1@6 / 1@100 / 1@200 / 2@300 / 3@600

**Comments:** Last 24 hours; Continued drilling from 387" to 1780 (TD) with no reported problems. Circ B/U twice and check well for fl

## LAST OR CURRENT BHA

BHA No:	1	Bit No:	1	MD In:	56 ft
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Purpose:	MD Out:	1870 ft
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Component	OD	ID	Jts	Length
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Component	CS	IS	OS	Length
HWDP	4.500	2.875	12	364.45
DRILL COLLAR	6.500	2.940	12	349.91
CROSSOVER	6.500	2.500	1	2.91
SPIRAL DRILL COLLAR	7.930	2.750	2	61.49
MWD TOOL	8.000	2.750	1	4.93
NEAR BIT STABILIZER	8.310	2.130	1	6.86
SPIRAL DRILL COLLAR	8.125	2.880	1	30.84
NEAR BIT STABILIZER	8.310	2.130	1	5.90
SHOCK SUB	8.125	2.000	1	12.83
PDC BIT	12.250		1	1.25

<b>Total Length:</b>	841.37 ft	<b>Wt below Jars:</b>
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## MUD PRODUCTS

Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
DRIVE-BY ENGINEERING	EACH	1.00
MF-55	CAN,5 GA	1.00
M-I WATE (BARITE)	100 LBS/SK	33.00
MY LO JEL	BG,50 LB	73.00
PREMIX PIT	EACH	1.00



OXY USA INC  
**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 03/25/2012  
**Report No:** 4

**OPERATIONS**

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:00	2.00	14SUDR	DRILL	ROTVR	P	<p>DRILL 12 1/4" SURFACE HOLE FROM 1366' TO 1504 ' , 138' AVG ROP 69 FPH WOB 10-15K. TD RPM 95-100, FLOW RATE 375 GPM, PUMP PSI 500 8K ON BTM.</p> <p>CIRCULATE STEEL PITS @ 900'</p> <p>PUMP # 2 DOWN</p> <p>PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE</p>
2:00	4:00	2.00	14SUDR	DRILL	ROTVR	P	<p>DRILL 12 1/4" SURFACE HOLE FROM 1504' TO 1728 ' , 224' AVG ROP 112 FPH WOB 10-15K. TD RPM 95-100, FLOW RATE 700 GPM, PUMP PSI 1300 9K ON BTM.</p> <p>VIS 43 MW 8.9 PH 8 CIRCULATE STEEL PITS</p> <p>SURVEY @ 1538' .30 DEG</p> <p>PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE</p> <p>SAFETY BREAK: GOOD HOUSEKEEPING</p>
4:00	4:30	0.50	14SUDR	RIGMT	SRVRIG	P	RIG SERVICE
4:30	6:00	1.50	14SUDR	DRILL	ROTVR	P	<p>DRILL 12 1/4" SURFACE HOLE FROM 1728' TO 1856 ' , 142' AVG ROP 94 FPH WOB 10-15K. TD RPM 95-100, FLOW RATE 700 GPM, PUMP PSI 1300 9K ON BTM.</p> <p>CIRCULATE STEEL PITS</p> <p>SURVEY @ 1538' .30 DEG</p> <p>PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE</p> <p>SAFETY BREAK: STAYING FOCUSED LAST TWO HRS OF TOUR</p>
6:00	6:30	0.50	14SUDR	DRILL	ROTVR	P	<p>DRILL 12 1/4" SURFACE HOLE FROM 1856' TO 1870 ' , 14' AVG ROP 14 FPH WOB 10-15K. TD RPM 95-100, FLOW RATE 700 GPM, PUMP PSI 1300 9K ON BTM.</p> <p>CIRCULATE STEEL PITS</p> <p>SURVEY @ 1794' 0.20DEG</p> <p>PUMP 25 BBL 60+ VIS GEL SWEEP EVERY 90' WITH LCM IN IT ADD 1-2 SOAP STICKS, 1 CUP POLY PLUS EVERY CONNECTION ADD MF-55 AT FLOWLINE</p> <p>SAFETY BREAK: TOH</p>
6:30	7:30	1.00	14SUDR	CIRC	CNDHOL	P	PUMP HIGH VISCOUS SWEEP AND CIRCULATED HOLE CLEAN
7:30	11:30	4.00	14SUDR	TRIP	PULD	P	POOH AND LAY DOWN 8" BHA AND 12 1/4" BIT
11:30	12:00	0.50	14SUDR	SAFE	PJSM	P	SAFETY MEETING WITH B&L CASING, RIG CREW, RM AND DSM
12:00	13:00	1.00	14SURC	CSG	RIGUP	P	RIG UP CASING RUNNING EQUIPMENT
13:00	19:00	6.00	14SURC	CSG	RUNCSG	P	<p>RUN 9 5/8" CASING LAND @ 1870'</p> <p>1- GUIDE SHOE, 1- CASING JOINT, 9 5/8", 36# J-55 1- FLOAT COLLAR, 44- JOINTS, 9 5/8", 36#, J-55, LTC,</p> <p>HAD TO WASH DOWN JOINT 30</p>
19:00	19:30	0.50	14SURC	CSG	RIGUP	P	RIG DOWN CASING RUNNING EQUIPMENT
19:30	20:00	0.50	14SURC	SAFE	PJSM	P	HOLD PJSM WITH HALLIBURTON AND RIG UP

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/25/2012  
 Report No: 4

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
20:00	22:00	2.00	14SURC	CMT	PRIM	P	CEMENT 9 5/8" CASING PER PROG PRESSURE TEST LINES TO LOW 250Psi, HI 2000Psi FOR 5 MINUTES FLUID 1: PUMP 20BBLs FRESH WATER SPACER 5BBL/MN FLUID 2: LEAD WITH 330 SKS 7BBL/MN PREMIUM PLUS CEMENT FLUID WEIGHT 13.50 LBM/GAL 94 LBM/SK PREMIUM PLUS CEMENT (CEMENT) SLURRY YIELD: 1.76 FT3/SK 4 % BENTONITE (ADDITIVE MATERIAL) TOTAL MIXING FLUID: 9.11 GAL/SK 2 % CALCIUM CHLORIDE (ACCELERATOR) TOP OF FLUID: 0 FT 2 LBM/SK KOL-SEAL (LOST CIRCULATION ADDITIVE)CALCULATED FILL: 1083.45 FT, VOLUME: 97.91, CALCULATED SACKS:323.93 SKS PROPOSED SACKS: 330 SKS ESTIMATED SLURRY PROPERTIES: THICKENING TIME: 03:30 COMPRESSIVE STRENGTHS @ 80 °F 24:00 1208 PSI 48:00 1615 PSI 72:00 1750 PSI FLUID 3: TAIL-IN WITH 300 SKS 5BBL/MN PREMIUM PLUS CEMENT FLUID WEIGHT 14.80 LBM/GAL 94 LBM/SK PREMIUM PLUS CEMENT (CEMENT) SLURRY YIELD: 1.36 FT3/SK 2 LBM/SK KOL-SEAL (LOST CIRCULATION ADDITIVE)TOTAL MIXING FLUID:6.27 GAL/SK 2 % CALCIUM CHLORIDE (ACCELERATOR) TOP OF FLUID: 1083.45 FT CALCULATED FILL: 766.55 FT VOLUME: 72.45 BBL, CALCULATED SACKS:300 SKS PROPOSED SACKS: 300 SKS ESTIMATED SLURRY PROPERTIES: THICKENING TIME: 02:30 COMPRESSIVE STRENGTHS @ 80 °F 24:00 1608 PSI,48:00 2172 PSI,72:00 2500 PSI FLUID 4: DISPLACEMENT FRESH WATER 141BBLs 8BBL/MN CIRCULATED 31BBLs OF CEMENT TO SURFACE (99SKS)
22:00	22:30	0.50	14SURC	SAFE	PJSM	P	HOLD PJSM R/D HALLIBURTON AND FLUSH CONDUCTOR
22:30	0:00	1.50	14SURC	WLHD	RWH	P	P/U CONDUCTOR, MAKE ROUGH CUT ON CASING. LAY OUT CUT OFF. FINAL CUT CASING, WELD ON WELL HEAD
Total Time		24.00					

Safety Incident?	N	Days since Last RI:	80.00	Weather Comments:
Environ Incident?	N	Days since Last LTA:	443.00	
Incident Comments: No incidents reported last 24 hours.				

**Other Remarks:** FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
 TRAILER TEL NUMBER: (713) 948-3590  
 FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS  
 DAYS WORKED WITH NO LTA: 443  
 DAYS SINCE LAST RI: 80  
 NUMBER SAFETY MEETINGS: 5  
 NUMBER NEAR MISSES: 0  
 STOP CARDS: 2  
 DAILY JSA'S REVIEWED: 12  
 PERMITS TO WORK: 1  
 LO/TO: X  
 PRE-SPUD INSPECTION: X  
 POWER-LINE CHECK LIST: X  
 SWA'S: X  
 BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE STANDING IN DRILLERS LINE OF SIGHT, STOPPED THE JOB INFORMED IN OF THE HAZARDS AND HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT

TOTAL PT HRS FOR THE MONTH: 107.5

## DAILY OPERATIONS PARTNER REPORT

Date: 03/26/2012  
Report No: 5

<b>Current Formation:</b> @	<b>Lithology:</b>
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Current Ops:

24-Hr Summary:	N/U, PSI TEST SURFACE EQUIPMENT AND CASING, DRILL CEMENT & FLOAT EQUIPMENT,PERFORM FIT TEST, DRILL 8 3/4" HOLE
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<b>24-Hr Forecast:</b>	RR 04/05/2012, ROL 04/06/2012 DRILL 8 3/4" PRODUCTION HOLE
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[illegible]

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
2	8.750	ULTERRA DRILLING T	U616M	M144521	M323	6x13	1870		- -	- -
1	12.250	ULTERRA DRILLING T	U519M	M14545	M323	7x11	56	1870	0-0-NO-A	0-I-NO-TD

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPsi
2	3.50	3.50	224	224	64.0	64.0	10.0/15.0	65/90	0.778	460	247.5	2.7

<b>Engineer:</b> Tyler Allen	<b>MBT:</b> 0.0 lbm/bbl
<b>Sample From:</b> In	<b>pH:</b> 7.5
<b>Mud Type:</b> Freshwater	<b>Pm / Pom:</b> 0.00
<b>Time / MD:</b> 18:15 / 1,870.0	<b>Pf / Mf:</b> 0.0 / 0.2
<b>Density @ Temp:</b> 8.40 / 0	<b>Chlorides:</b> 800
<b>Rheology Temp:</b> 120	<b>Ca+ / K+:</b> 440 / 0
<b>Viscosity:</b> 27.00	<b>CaCl2:</b> 0.00
<b>PV / YP:</b> 1 / 1	<b>Clom:</b> 0.00
<b>Gels 10s/10m/30m:</b> 1 / 1 / 1	<b>Lime:</b> 0.00
<b>API WL:</b> 45.00	<b>ES:</b> 0.00
<b>HTHP WL:</b> 0.00	<b>ECD:</b> 0.00
<b>Cake API / HTHP:</b> .0 / 0	<b>n / K:</b> 0.00 / 0.000
<b>Solids / Sol Corr:</b> 0.00 / 0.00	<b>Carbonate:</b> 0 ppm
<b>Oil / Water:</b> 0.0 / 99.5	<b>Bicarbonate:</b> 0 ppm
<b>Sand:</b> 0.01	<b>Form Loss:</b> 0.0 / 0.0
<b>Water Added:</b> 400.0 bbl	<b>Fluid Disch:</b> /
<b>Oil Added:</b>	
<b>LGS:</b> 0.50 / 4.20	

BHA No:	2	Bit No:	2	MD In:	1870 ft
Purpose:	MD Out:				
<b>Component</b>	<b>OD</b>	<b>ID</b>	<b>Jts</b>	<b>Length</b>	
HWDP			4	121.78	
DRILLING JAR	6.375	2.750	1	32.37	
HWDP	4.500	2.875	8	242.67	
SPIRAL DRILL COLLAR	7.930	2.750	12	349.91	
MWD TOOL	6.500	3.250	1	4.97	
NEAR BIT STABILIZER	8.310	2.130	1	6.63	
DRILL COLLAR	6.250	2.375	1	28.80	
NEAR BIT STABILIZER	8.310	2.130	1	7.74	
DRILL COLLAR	6.875	2.875	1	31.03	
VERTICAL DRILLING TOOL	6.500		1	31.99	
PDC BIT	8.750		1	1.00	

<b>Total Length:</b>	858.89 ft	<b>Wt below Jars:</b>			

[illegible]

OXY USA INC  
**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 03/26/2012  
**Report No:** 5

**OPERATIONS**

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	0:30	0.50	14SURC	WLHD	RWH	P	FINISH WELDING WELLHEAD AND TEST VOID TO 1414
0:30	1:00	0.50	14SURC	SAFE	PJSM	P	REVIEW JSA AND HOLD PJSM FOR NIPPLE UP WITH ALL CREWS
1:00	3:30	2.50	14SURC	BOP	RUBOP	P	NIPPLE UP BOP
3:30	6:00	2.50	14SURC	BOP	TSTBOP	P	TEST BOP, CHOKE MANIFOLD, FLOOR VALVES & TOP DRIVE VALVES 250 PSI LOW & 2100 PSI HIGH, TEST 4" MUD LINES 250 PSI LOW & 3500 PSI HIGH, HELD EACH TEST FOR 5 MIN, TEST CASING TO 2100 AND HOLD FOR 30 MIN.
6:00	9:30	3.50	14SURC	BOP	TSTBOP	P	CONTINUE TO TEST BOPS  SAFETY BREAK: GOOD HOUSEKEEPING
9:30	14:00	4.50	14SURC	TRIP	BHA	P	TRIP IN HOLE TAG CEMENT @ 1811'
14:00	14:30	0.50	14SURC	OTHR	OTHER	P	CHECK VALVES ON CHOKE MANIFOLD
14:30	18:00	3.50	14SURC	SRFEQ	REPR	PT	BOTTOM VALVE ON GAS BUSTER WOULD NOT CLOSE, CHANGE OUT VALVE
18:00	19:00	1.00	14SURC	SAFE	PJSM	P	PERFORM CHOKE DRILL WITH CREW AND PUSHER
19:00	20:00	1.00	14SURC	DRILL	MTRVER	P	DRILL CEMENT AND FLOAT EQUIPMENT
20:00	20:30	0.50	31PRDR	DRILL	MTRVER	P	DRILL 10' OF FORMATION AND PERFORM FIT TEST 8.4MWX362 PSI =12.1 EMW TEST GOOD
20:30	0:00	3.50	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" SURFACE HOLE FROM 1880' TO 2094' , 214' AVG ROP 61 FPH WOB 10-15K. TD RPM 60-90 MM RPM 96, FLOW RATE 600 GPM, PUMP PSI 1500. TORQUE 7K ON BOTTOM  CIRCULATE INSIDE RESERVE  MUD WT 8.5 VIS 28 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: MAKING CONNECTIONS
Total Time		24.00					

<b>Safety Incident?</b>	N	<b>Days since Last RI:</b>	81.00	<b>Weather Comments:</b>
<b>Environ Incident?</b>	N	<b>Days since Last LTA:</b>	444.00	
<b>Incident Comments:</b> No incidents reported last 24 hours.				

**Other Remarks:**

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
TRAILER TEL NUMBER: (713) 948-3590  
FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS  
DAYS WORKED WITH NO LTA: 444  
DAYS SINCE LAST RI: 81  
NUMBER SAFETY MEETINGS: 4  
NUMBER NEAR MISSES: 0  
STOP CARDS: 2  
DAILY JSA'S REVIEWED: 14  
PERMITS TO WORK:0  
LO/TO: X  
PRE-SPUD INSPECTION: X  
POWER-LINE CHECK LIST: X  
SWA'S: X  
BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE NOT WEARING GLOVES WHILE MAKING CONNECTION STOPPED THE JOB INFORMED HIM OF THE HAZARDS, HE COMPLIED, AND JOB CONTINUED WITHOUT INCIDENT  
TOTAL PT HRS FOR THE MONTH: 111

## DAILY OPERATIONS PARTNER REPORT

Date: 03/27/2012  
Report No: 6

[illegible]

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/27/2012  
 Report No: 6

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 2094' TO 2434 ', 340' AVG ROP 85 FPH WOB 10-20K. TD RPM 60-90 MM RPM 96, FLOW RATE 600 GPM, PUMP PSI 1500. TORQUE 7K ON BTM.  CIRCULATE INSIDE RESERVE  MUD WT 8.7 VIS 28 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: USING PROPER TOOLS FOR THE JOB
4:00	6:00	2.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 2434' TO 2600 ', 166' AVG ROP 83 FPH WOB 10-20K. TD RPM 60-90 MM RPM 96, FLOW RATE 600 GPM, PUMP PSI 1500. TORQUE 9K ON BTM.  SURVEY @ 2400 1.1 DEG  CIRCULATE INSIDE RESERVE  MUD WT 8.9 VIS 29 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: STAYING FOCUSED LAST TWO HRS OF TOUR
6:00	10:30	4.50	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 2600' TO 3121 ', 521' AVG ROP 130 FPH WOB 10-20K. TRPM 181, FLOW RATE 600 GPM, PUMP PSI 1800. TORQUE 9K ON BTM.  SURVEY 2841' 0.4  CIRCULATE INSIDE RESERVE  MUD WT 9.3 VIS 29 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: PINCH POINTS
10:30	11:00	0.50	31PRDR	RIGMT	SRVRIG	P	RIG SERVICE
11:00	15:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 3121' TO 3458 ', 337' AVG ROP 84 FPH WOB 10-20K. TRPM 181, FLOW RATE 600 GPM, PUMP PSI 1800. TORQUE 9K ON BTM.  CIRCULATE INSIDE RESERVE  MUD WT 9.3 VIS 29 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: STAY HYDRATED
15:00	19:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 3458' TO 3762 ', 304' AVG ROP 76FPH WOB 10-20K. TRPM 181, FLOW RATE 600 GPM, PUMP PSI 1800. TORQUE 9K ON BTM.  SURVEY @ 3475 .70 DEG  MUD WT 9.8 VIS 28 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: STAYING FOCUSED LAST DAY OF TOUR
19:00	20:00	1.00	31PRDR	RIGMT	REP	P	HYDRAULIC COOLING FAN BEING REPAIRED

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/27/2012  
 Report No: 6

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
20:00	0:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 3762' TO 4134 ', 372' AVG ROP 93FPH WOB 10-20K. TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 1800. TORQUE 9K ON BTM.  CIRCULATE INSIDE RESERVE  MUD WT 9.8 VIS 28 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: SLIPS TRIPS AND FALLS

Total Time 24.00

Safety Incident? N Days since Last RI: 82.00 Weather Comments:

Environ Incident? N Days since Last LTA: 445.00

## Incident Comments:

No incidents reported last 24 hours.

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.

TRAILER TEL NUMBER: (713) 948-3590

FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS

DAYS WORKED WITH NO LTA: 445

DAYS SINCE LAST RI: 82

NUMBER SAFETY MEETINGS: 6

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 14

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE WEARING DARK SAFETY GLASSES AT NIGHT STOPPED HIM AND INFORMED HIM OF THE HAZARDS HE COMPLIED AND GOT A CLEAR PAIR AND JOB CONTINUED WITHOUT INCIDENT



## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 03/28/2012  
Report No: 7

Wellbore / Top MD: 00 @ 44 ft Rlg: SAVANNA 643 Ref Datum: Original KB @3,045.10ft DFS: 4.75  
Today's MD: 5872 ft Progress: 1738 ft Ground Elev: 3,029.70 ft Daily Cost: \$29,892  
Prev MD: 4134 ft Rot Hrs Today: 23.50 hr AFE MD/Days: 11,400.0 / 13.6 days Cum Cost: \$413,212  
PBMD: Avg ROP Today: 74.0 ft/hr AFE Number: 1145637#0102 AFE Cost: \$1,224,234

Current Formation: @ Lithology:

## Current Ops:

24-Hr Summary: DRILL 8.75" PRODUCTION HOLE TO 5872

24-Hr Forecast: RR 04/06/2012, ROL 04/07/2012 DRILL 8.75" PRODUCTION HOLE

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 1,870ft	Str Wt Up/Dn:	150.0/ 120.0 kip	Pump Rate:	618.5	Conn:	47	54
Next Casing:	5.500in @ 11,450ft	Str Wt Rot:	138.0 kip	Pump Press:	2300	Trip:	0	0
Last BOP Press Test:	03/26/2012	Torq Off Btm:	5,000.0 ft-lbf			Backgr:	42	50
Form Test/EMW:	FIT / 12.11 ppg	Torq On Btm:	9,000.0 ft-lbf					

PERSONNEL		SURVEY DATA (LAST 6)							
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS
Supervisor 2:	DARRELL WERTHER	5,444.0	0.90	0.00	5,443.51	66.9	0.0	66.9	0.01
Engineer:	IVAN OTERO	4,439.0	1.00	0.00	4,438.65	50.3	0.0	50.3	0.03
Geologist:	TIM LYONS	3,475.0	0.70	0.00	3,474.76	36.0	0.0	36.0	0.04
Oxy Personnel:	2	2,400.0	1.10	0.00	2,399.89	19.1	0.0	19.1	0.09
Contractor Personnel:	14	1,794.0	0.20	0.00	1,793.96	9.7	0.0	9.7	0.04
Total on Site:	16	1,538.0	0.30	0.00	1,537.96	8.5	0.0	8.5	0.08

## BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
2	8.750	ULTERRA DRILLING T	U616M	M144521	M323	6x13	1870		--	--

## BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
2	23.50	49.50	1738	4002	74.0	80.8	20.0/28.0	80/95	0.778	536	255.1	3.2

## MUD DATA - M-I SWACO

Engineer: Ty Dove MBT: 17.5 lbm/bbl  
Sample From: In pH: 11.5  
Mud Type: Freshwater/Gel Pm / Pom: 0.00  
Time / MD: 13:00 / 5,043.0 Pf / Mf: 1.0 / 1.3  
Density @ Temp: 8.60 / 90 Chlorides: 11,500  
Rheology Temp: 120 Ca+ / K+: 100 / 0  
Viscosity: 40.00 CaCl2: 0.00  
PV / YP: 5 / 17 Clom: 0.00  
Gels 10s/10m/30m: 10 / 11 / 12 Lime: 0.00  
API WL: 30.00 ES: 0.00  
HTHP WL: 0.00 ECD: 8.95  
Cake API / HTHP: 3.0 / .0 n / K: 0.00 / 0.000  
Solids / Sol Corr: 0.50 / 0.00 Carbonate: 17 ppm  
Oil / Water: 0.0 / 99.1 Bicarbonate: 0 ppm  
Sand: 0.01 Form Loss: 24.0 / 48.0  
Water Added: 600.0 bbl Fluid Disch: /  
Oil Added:  
LGS: 2.70 / 24.70

VG Meter: 9@3 / 11@6 / 17@100 / 19@200 / 22@300 / 27@600

Comments: Last 24 hrs; Drilled F/3395"-T/4800" and started displacement of fluids with 8.6 ppg MI Gel mud in approx. 4100 stks.

## LAST OR CURRENT BHA

BHA No: 2	Bit No: 2	MD In: 1870 ft		
Purpose:	MD Out:			
Component	OD	ID	Jts	Length
HWDP	4.500	2.875	4	121.78
DRILLING JAR	6.375	2.750	1	32.37
HWDP	4.500	2.875	8	242.67
SPIRAL DRILL COLLAR	7.930	2.750	12	349.91
MWD TOOL	6.500	3.250	1	4.97
NEAR BIT STABILIZER	8.310	2.130	1	6.63
DRILL COLLAR	6.250	2.375	1	28.80
NEAR BIT STABILIZER	8.310	2.130	1	7.74
DRILL COLLAR	6.875	2.875	1	31.03
VERTICAL DRILLING TOOL	6.500		1	31.99
PDC BIT	8.750		1	1.00

Total Length: 858.89 ft Wt below Jars:

## MUD PRODUCTS

Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
CAUSTIC SODA	BG,50 LB	24.00
CEDAR FIBER CHIP SEAL	BG,40 LB	6.00
DRIVE-BY ENGINEERING	EACH	1.00
MF-55	CAN,5 GA	6.00
MICA FINE	BG,50 LB	9.00
M-I-X II FINE	BG,25 LB	4.00
SOAP STICK	EACH	120.00
SODA ASH	BG,50 LB	20.00



## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/28/2012  
 Report No: 7

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 4134' TO 4468 ', 334' AVG ROP 83 FPH WOB 10-20K. TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 1800. TORQUE 9K ON BTM.  CIRCULATE INSIDE RESERVE  MUD WT 9.8 VIS 28 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'
4:00	4:30	0.50	31PRDR	RIGMT	REP	P	PLC CABLE CAME UNPLUGGED
4:30	6:00	1.50	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 4468' TO 4540 ',132' AVG ROP 88 FPH WOB 10-20K. TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 1800. TORQUE 9K ON BTM.  CIRCULATE INSIDE RESERVE  MUD WT 9.8 VIS 28 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'
6:00	10:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 4550' TO 4850 ', 300' AVG ROP 75 FPH WOB 10-20K. TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2250 TORQUE 9K ON BTM  CIRCULATE INSIDE RESERVE  MUD WT 9.8 VIS 28 PH 11  PUMP 20 BBL 60+ VIS GEL & LCM SWEEP EVERY 60-90'  SAFETY BREAK: TEAM WORK
10:00	14:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 4850' TO 5110 ', 260' AVG ROP 65 FPH WOB 10-20K. TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2250 TORQUE 9K ON BTM STARTED TO DISPLACE HOLE @ 4900' , 10,000 STROKES  CIRCULATE THROUGH STEEL PIT  WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: STAY HYDRATED
14:00	18:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 5110' TO 5450 ', 340' AVG ROP 85 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: MIXING MUD

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 03/28/2012  
Report No: 7

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
18:00	22:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 5450' TO 5766' , 316' AVG ROP 79 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.1, MW OUT 9.1 VIS IN 39 VIS OUT 40 PH 11.5 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: MAKING CONNECTIONS
22:00	0:00	2.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 5766' TO 5872' ,106' AVG ROP 53 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.2, MW OUT 9.3 VIS IN 35 VIS OUT 35 PH 11.5 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: FORKLIFT SAFETY

Total Time 24.00

Safety Incident? N Days since Last RI: 83.00 Weather Comments:

Environ Incident? N Days since Last LTA: 446.00

## Incident Comments:

No incidents reported last 24 hours.

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.

TRAILER TEL NUMBER: (713) 948-3590

FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS

DAYS WORKED WITH NO LTA: 446

DAYS SINCE LAST RI: 83

NUMBER SAFETY MEETINGS: 6

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 14

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE STANDING IN BUFFER ZONE WHILE PIPE WAS BEING BROUGHT UP V DOOR, STOPPED HIM AND EXPLAINED THE HAZARDS, HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 03/29/2012  
Report No: 8

Wellbore / Top MD: 00 @ 44 ft Rig: SAVANNA 643 Ref Datum: Original KB @3,045.10ft DFS: 5.75  
Today's MD: 7012 ft Progress: 1140 ft Ground Elev: 3,029.70 ft Daily Cost: \$52,380  
Prev MD: 5872 ft Rot Hrs Today: 15.50 hr AFE MD/Days: 11,400.0 / 13.6 days Cum Cost: \$465,591  
PBMD: Avg ROP Today: 73.5 ft/hr AFE Number: 1145637#0102 AFE Cost: \$1,224,234

Current Formation: @ Lithology:

## Current Ops:

24-Hr Summary: DRILLED 8 3/4" PRODUCTION HOLE TO 7012', STUCK PIPE @ 6883 WORKED PIPE FREE. TOH TO PICK UP BHA #3 AND REPAIR TOP DRIV  
24-Hr Forecast: RR 04/06/2012 ROL 04/07/2012. TOH, P/U BHA #3, TIH TO SHOE TO REPAIR TOP DRIVE, TIH TO 7012' AND DRILL 7 7/8" HOLE TO 11450

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 1,870ft	Str Wt Up/Dn:	167.0/ 163.0 kip	Pump Rate:	612.6	Conn:	110	145
Next Casing:	5.500in @ 11,450ft	Str Wt Rot:	165.0 kip	Pump Press:	2500	Trip:	0	0
Last BOP Press Test:	03/26/2012	Torq Off Btm:	5,000.0 ft-lbf			Backgr:	141	150
Form Test/EMW:	FIT / 12.11 ppg	Torq On Btm:	9,000.0 ft-lbf					

PERSONNEL		SURVEY DATA (LAST 6)							
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS
Supervisor 2:	DARRELL WERTHER	6,442.0	0.50	0.00	6,441.44	79.1	0.0	79.1	0.04
Engineer:	IVAN OTERO	5,444.0	0.90	0.00	5,443.51	66.9	0.0	66.9	0.01
Geologist:	TIM LYONS	4,439.0	1.00	0.00	4,438.65	50.3	0.0	50.3	0.03
Oxy Personnel:	2	3,475.0	0.70	0.00	3,474.76	36.0	0.0	36.0	0.04
Contractor Personnel:	14	2,400.0	1.10	0.00	2,399.89	19.1	0.0	19.1	0.09
Total on Site:	16	1,794.0	0.20	0.00	1,793.96	9.7	0.0	9.7	0.04

## BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
2	8.750	ULTERRA DRILLING T	U616M	M144521	M323	6x13	1870		--	--

## BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
2	15.50	65.00	1140	5142	73.5	79.1	15.0/25.0	85/100	0.778	531	252.7	3.2

## MUD DATA - M-I SWACO

Engineer: Ty Dove MBT: 0.0 lbm/bbl  
Sample From: In pH: 7.0  
Mud Type: Fresh Water Pm / Pom: 0.00  
Time / MD: 12:00 / 820.0 Pf / Mf: 0.0 / 0.1  
Density @ Temp: 8.40 / 0 Chlorides: 1,000  
Rheology Temp: 120 Ca+ / K+: 80 / 0  
Viscosity: 27.00 CaCl2: 0.00  
PV / YP: 1 / 1 Clom: 0.00  
Gels 10s/10m/30m: 1 / 1 / 1 Lime: 0.00  
API WL: 45.00 ES: 0.00  
HTHP WL: 0.00 ECD: 0.00  
Cake API / HTHP: .0 / .0 n / K: 0.00 / 0.000  
Solids / Sol Corr: 0.00 / 0.00 Carbonate: 0 ppm  
Oil / Water: 0.0 / 99.6 Bicarbonate: 0 ppm  
Sand: 0.01 Form Loss: 24.0 / 72.0  
Water Added: 150.0 bbl Fluid Disch: /  
Oil Added:  
LGS: 0.40 / 4.10

VG Meter: 9@3 / 12@6 / 14@100 / 18@200 / 24@300 / 32@600

Comments: Last 24 hours: completed rigging up. Strapped BHA and picked up and TIH and Spud well at 4:00. Currently drilling ahead.

## LAST OR CURRENT BHA

BHA No: 2	Bit No: 2	MD In: 1870 ft		
Purpose:		MD Out:		
Component	OD	ID	Jts	Length
HWDP	4.500	2.875	4	121.78
DRILLING JAR	6.375	2.750	1	32.37
HWDP	4.500	2.875	8	242.67
SPIRAL DRILL COLLAR	7.930	2.750	12	349.91
MWD TOOL	6.500	3.250	1	4.97
NEAR BIT STABILIZER	8.310	2.130	1	6.63
DRILL COLLAR	6.250	2.375	1	28.80
NEAR BIT STABILIZER	8.310	2.130	1	7.74
DRILL COLLAR	6.875	2.875	1	31.03
VERTICAL DRILLING TOOL	6.500		1	31.99
PDC BIT	8.750		1	1.00

Total Length: 858.89 ft Wt below Jars:

## MUD PRODUCTS

Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
DRIVE-BY ENGINEERING	EACH	1.00
DUO-VIS	BG,25 LB	2.00
LIME	BG,50 LB	101.00
M-I-X II FINE	BG,25 LB	5.00
MIX II MEDIUM	bG, 25 LB	10.00
MY LO JEL	BG,50 LB	6.00
SAPP	BG,50 LB	7.00
SODA ASH	BG,50 LB	20.00

OXY USA INC  
**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 03/29/2012  
**Report No:** 8

**OPERATIONS**

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 5872' TO 5937 '65' AVG ROP 43 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.2, MW OUT 9.3 VIS IN 35 VIS OUT 35 PH 11.5 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL
1:30	2:00	0.50	31PRDR	RIGMT	REP	P	CHANGE OUT WASH PIPE ON TOP DRIVE
2:00	6:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 5937' TO 6200 263' AVG ROP 65 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.1, MW OUT 9.3 VIS IN 40 VIS OUT 35 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: STAYING FOCUSED LAST TWO HRS OF TOUR
6:00	10:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 6200' TO 6503', 303' AVG ROP 76 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2200 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.1, MW OUT 9.3 VIS IN 40 VIS OUT 35 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: STAY HYDRATED
10:00	12:30	2.50	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 6503' TO 6702', 199' AVG ROP 80 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2200 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.1, MW OUT 9.3 VIS IN 40 VIS OUT 35 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: DRIVING
12:30	13:00	0.50	31PRDR	RIGMT	SRVRIG	P	RIG SERVICE
13:00	15:00	2.00	31PRDR	DRILL	MTRVER	P	DRILL 8 3/4" PRODUCTION HOLE FROM 6702' TO 6884', 182' AVG ROP 91 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2200 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.1, MW OUT 9.3 VIS IN 40 VIS OUT 35 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: SLIPS TRIPS AND FALLS
15:00	15:30	0.50	31PRDR	RIGMT	REP	PT	WASH PIPE PACKING

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/29/2012  
 Report No: 8

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
15:30	17:00	1.50	31PRDR	STKP	STKDS	PT	PIPE WAS DIFFERENTIAL STUCK, GOT IT FREE
17:00	18:30	1.50	31PRDR	DRILL	MTRVER	P	<p>DRILL 8 3/4" PRODUCTION HOLE FROM 6884' TO 7012', 128' AVG ROP 85 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2200 TORQUE 9K ON BTM</p> <p>CIRCULATE THROUGH STEEL PIT</p> <p>MW IN 9.1, MW OUT 9.3            VIS IN 40 VIS OUT 35            PH 11            WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE</p> <p>PUMP 20 BBL 60+ VIS GEL</p>
18:30	0:00	5.50	31PRDR	TRIP	BHA	PT	<p>TOH TO TROUBLESHOOT AND REPAIR TOP DRIVE AND P/U BHA #3            PLC CORD ON TOP DRIVE SNAGGED AND TORE IN HALF. L/D 23 JOINTS OF DP TO GET INSIDE THE SHOE</p> <p>SAFETY BREAK : TRIPPING PRACTICES</p>
Total Time		24.00					

Safety Incident? N Days since Last RI: 84.00 Weather Comments:

Environ Incident? N Days since Last LTA: 447.00

## Incident Comments:

No incidents reported last 24 hours.

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.

TRAILER TEL NUMBER: (713) 948-3590

FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS

DAYS WORKED WITH NO LTA: 447

DAYS SINCE LAST RI: 84

NUMBER SAFETY MEETINGS: 5

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 15

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVE EMPLOYEE RUNNING DOWN STAIRS WITHOUT THREE POINT CONTACT.

STOPPED HIM WARNED HIM OF THE HAZARDS, HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT

PT HRS FOR THE MONTH: 120.5

## DAILY OPERATIONS PARTNER REPORT

**Date:** 03/30/2012  
**Report No:** 9

Current Formation: @ Lithology:

Current Ops:

**Current Ops:**

**24-Hr Summary:** TOH WITH BHA #2,P/U BHA #3, TIH TO SHOE AND REPAIR TOP DRIVE, TIH

24-Hr Forecast:	RR 04/07/2012 ROL 04/08/2012 TIH WITH BHA # 3 AND DRILL 7 7/8" PRODUCTION HOLE
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CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 1,870ft	Str Wt Up/Dn:	/	Pump Rate:	0.0	Conn:	0	0
Next Casing:	5.500in @ 11,450ft	Str Wt Rot:		Pump Press:	0	Trip:	0	0
Last BOP Press Test:	03/26/2012	Torq Off Btm:				Backgr:	0	0
Form Test/EMW:	FIT / 12.11 ppg							

PERSONNEL		SURVEY DATA (LAST 6)								
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS	Build
Supervisor 2:	DARRELL WERTHER	7,440.0			7,439.42	83.5	0.0	83.5	0.05	-0.05
Engineer:	IVAN OTERO	6,442.0	0.50	0.00	6,441.44	79.1	0.0	79.1	0.04	-0.04
Geologist:	TIM LYONS	5,444.0	0.90	0.00	5,443.51	66.9	0.0	66.9	0.01	-0.01
Oxy Personnel:	2	4,439.0	1.00	0.00	4,438.65	50.3	0.0	50.3	0.03	0.03
Contractor Personnel:	14	3,475.0	0.70	0.00	3,474.76	36.0	0.0	36.0	0.04	-0.04
Total on Site:	16	2,400.0	1.10	0.00	2,399.89	19.1	0.0	19.1	0.09	0.09

## BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	7.875	ULTERRA DRILLING T	U616M	M144554	M423	6x16	7012		--	--
2	8.750	ULTERRA DRILLING T	U616M	M144521	M323	6x13	1870	7012	0-0-NO-	0-I-NO-BC

## BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
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## MUD DATA - M-I SWACO

<b>Engineer:</b> Ty Dove	<b>MBT:</b> 17.5 lbm/bbl
<b>Sample From:</b> In	<b>pH:</b> 11.0
<b>Mud Type:</b> Freshwater/Gel	<b>Pm / Pom:</b> 0.00
<b>Time / MD:</b> 16:00 / 7,012.0	<b>Pf / Mf:</b> 0.4 / 0.7
<b>Density @ Temp:</b> 9.20 / 0	<b>Chlorides:</b> 40,000
<b>Rheology Temp:</b> 120	<b>Ca+ / K+:</b> 1,000 / 0
<b>Viscosity:</b> 40.00	<b>CaCl2:</b> 0.00
<b>PV / YP:</b> 7 / 19	<b>Clom:</b> 0.00
<b>Gels 10s/10m/30m:</b> 9 / 10 / 11	<b>Lime:</b> 0.00
<b>API WL:</b> 0.00	<b>ES:</b> 0.00
<b>HTHP WL:</b> 0.00	<b>ECD:</b> 0.00
<b>Cake API / HTHP:</b> 2.0 / 0	<b>n / K:</b> 0.00 / 0.000
<b>Solids / Sol Corr:</b> 2.00 / 0.00	<b>Carbonate:</b> 7 ppm
<b>Oil / Water:</b> 0.0 / 97.9	<b>Bicarbonate:</b> 0 ppm
<b>Sand:</b> 0.01	<b>Form Loss:</b> 0.0 / 72.0
<b>Water Added:</b> 0.0 bbl	<b>Fluid Disch:</b> /
<b>Oil Added:</b>	
<b>LGS:</b> 3.80 / 34.50	

## LAST OR CURRENT BHA

BHA No:	3	Bit No:	3	MD In:	7012 ft
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Purpose:	MD Out:
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Component	OD	ID	Jts	Length
HWDP	4.500	2.875	4	121.78
DRILLING JAR	6.375	2.750	1	32.37
HWDP	4.500	2.875	8	242.67
SPIRAL DRILL COLLAR	7.930	2.750	12	349.91
MWD TOOL	6.500	3.250	1	4.97
NEAR BIT STABILIZER	6.500	2.250	1	5.71
DRILL COLLAR	6.250	2.375	1	28.80
NEAR BIT STABILIZER	6.500	2.250	1	6.63
VERTICAL DRILLING TOOL	6.500	1.720	1	32.17
PDC BIT	8.750		1	1.00

<b>Total Length:</b>	826.01 ft	<b>Wt below Jars:</b>
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## MUD PRODUCTS

[illegible]

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/30/2012  
 Report No: 9

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:30	3.50	31PRDR	TRIP	BHA	PT	CONTINUE TO TOH L/D BHA # 2
3:30	4:00	0.50	31PRDR	OTHR	OTHER	PT	CLEAN FLOOR AND STRAP AND TALLY BHA # 3
4:00	6:00	2.00	31PRDR	TRIP	PULD	PT	P/U BHA # 3 AND TIH TO THE SHOE
							SAFETY BREAK: PICKING UP BHA
6:00	10:00	4.00	31PRDR	RIGMT	REP	PT	WORKING ON TOP DRIVE
							REPLACED BOLTS IN BONNET SUPPORT, THREAD LOCKED, AND TORQUED TO SPECS .
							TWO BOLTS IN THE HAGGLAND MOTOR WERE BROKEN. REPLACED , THREAD LOCKED, AND TORQUED TO SPECS.
							REPLACED THE QUILL EXTENSION
							REPLACED WASH PIPE AND PACKING
10:00	14:00	4.00	31PRDR	RIGMT	REP	PT	WORKING ON TOP DRIVE
14:00	18:00	4.00	31PRDR	RIGMT	REP	PT	WORKING ON TOP DRIVE
18:00	21:30	3.50	31PRDR	RIGMT	REP	PT	WORKING ON TOP DRIVE
21:30	22:00	0.50	31PRDR	RIGMT	REP	PT	CLEAN OFF FLOOR
							SAFETY BREAK: GOOD HOUSEKEEPING
22:00	23:00	1.00	31PRDR	CIRC	CNDFLD	PT	CIRCULATE AT THE SHOE CONDITION MUD AND CHECK TD FOR LEAKS
23:00	0:00	1.00	31PRDR	TRIP	BHA	PT	TIH
							HOLE GIVING BACK PROPER DISPLACEMENT
							SAFETY BREAK: H2S AWARENESS
Total Time		24.00					

Safety Incident? N Days since Last RI: 85.00 Weather Comments:  
 Environ Incident? N Days since Last LTA: 448.00  
 Incident Comments:  
 No incidents reported last 24 hours.

**Other Remarks:** FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
 TRAILER TEL NUMBER: (713) 948-3590  
 FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS  
 DAYS WORKED WITH NO LTA: 448  
 DAYS SINCE LAST RI: 85  
 NUMBER SAFETY MEETINGS: 5  
 NUMBER NEAR MISSES: 0  
 STOP CARDS: 2  
 DAILY JSA'S REVIEWED: 15  
 PERMITS TO WORK:0  
 LO/TO: X  
 PRE-SPUD INSPECTION: X  
 POWER-LINE CHECK LIST: X  
 SWA'S: X  
 BEST STOP CARD OF THE DAY : OBSERVE EMPLOYEE STANDING IN THE LINE OF FIRE OF A SWINGING HAMMER. STOPPED HIM WARNED HIM OF THE HAZARDS AND JOB CONTINUED WITHOUT INCIDENT

PT HRS FOR THE MONTH: 134.5

## DAILY OPERATIONS PARTNER REPORT

**Date:** 03/31/2012  
**Report No:** 10

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS		Avg		Max	
Last Casing:	9.625in @ 1,870ft	Str Wt Up/Dn:	168.0/ 164.0 kip	Pump Rate:	606.8	Conn:		133		139	
Next Casing:	5.500in @ 11,450ft	Str Wt Rot:	166.0 kip	Pump Press:	2300	Trip:		750		800	
Last BOP Press Test:	03/26/2012	Torq Off Btm:	3,000.0 ft-lbf			Backgr:		123		176	
Form Test/EMW:	FIT / 12.11 ppg	Torq On Btm:	9,000.0 ft-lbf								

PERSONNEL		SURVEY DATA (LAST 6)								
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N/S	E/W	VS	DLS	Build
Supervisor 2:	DARRELL WERTHER	7,440.0			7,439.42	83.5	0.0	83.5	0.05	-0.05
Engineer:	IVAN OTERO	6,442.0	0.50	0.00	6,441.44	79.1	0.0	79.1	0.04	-0.04
Geologist:	TIM LYONS	5,444.0	0.90	0.00	5,443.51	66.9	0.0	66.9	0.01	-0.01
Oxy Personnel:	0	4,439.0	1.00	0.00	4,438.65	50.3	0.0	50.3	0.03	0.03
Contractor Personnel:	0	3,475.0	0.70	0.00	3,474.76	36.0	0.0	36.0	0.04	-0.04
Total on Site:	0	2,400.0	1.10	0.00	2,399.89	19.1	0.0	19.1	0.09	0.09

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	7.875	ULTRERRA DRILLING T	U616M	M144554	M423	6x16	7012		- -	- -
2	8.750	ULTRERRA DRILLING T	U616M	M144521	M323	6x13	1870	7012	0-0-NO-	0-I-NO-BC

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	6.00	6.00	414	414	69.0	69.0	15.0/28.0	65/90	1.178	227	165.2	1.7

HWDP	4.500	2.875	4	121.78
DRILLING JAR	6.375	2.750	1	32.37
HWDP	4.500	2.875	8	242.67
SPIRAL DRILL COLLAR	7.930	2.750	12	349.91
MWD TOOL	6.500	3.250	1	4.97
NEAR BIT STABILIZER	6.500	2.250	1	5.71
DRILL COLLAR	6.250	2.375	1	28.80
NEAR BIT STABILIZER	6.500	2.250	1	6.63
VERTICAL DRILLING TOOL	6.500	1.720	1	32.17
PDC BIT	8.750		1	1.00

<b>Total Length:</b>	826.01 ft	<b>Wt below Jars:</b>
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Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
DRIVE-BY ENGINEERING	EACH	1.00
LIME	BG,50 LB	7.00
M-I GEL BULK	TON	15.00
PREMIX PIT	EACH	1.00
SODA ASH	BG,50 LB	30.00



## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 03/31/2012  
 Report No: 10

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:30	1.50	31PRDR	TRIP	BHA	PT	TIH HOLE GIVING PROPER DISPLACEMENT
1:30	3:00	1.50	31PRDR	CIRC	CNDFLD	PT	CIRCULATE AND CONDITION MUD @ 4500'
3:00	6:00	3.00	31PRDR	TRIP	BHA	PT	BY PASSED ALL HEAVY MUD TO RESERVE
6:00	10:00	4.00	31PRDR	RIGMT	REP	PT	CONTINUE TO TIH
10:00	14:00	4.00	31PRDR	DRILL	MTRVER	P	SAFETY BREAK: STAYING FOCUSED LAST TWO HRS OF TOUR
14:00	16:00	2.00	31PRDR	DRILL	MTRVER	P	STILL HAVE WASH PIPE PACKING TROUBLE
16:00	18:00	2.00	31PRDR	RIGMT	REP	PT	DRILL 7 7/8" PRODUCTION HOLE FROM 7012' TO 7280', 268' AVG ROP 67FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM
18:00	21:30	3.50	31PRDR	TRIP	WSHO	PT	CIRCULATE THROUGH STEEL PIT
21:30	0:00	2.50	31PRDR	RIGMT	REP	PT	MW IN 9.1, MW OUT 9.3 VIS IN 40 VIS OUT 35 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE
							PUMP 20 BBL 60+ VIS GEL
							SAFETY BREAK: USING PROPER TOOLS FOR THE JOB
							DRILL 7 7/8" PRODUCTION HOLE FROM 7280' TO 7426', 146' AVG ROP 73 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM
							CIRCULATE THROUGH STEEL PIT
							MW IN 9.1, MW OUT 9.3 VIS IN 40 VIS OUT 35 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE
							PUMP 20 BBL 60+ VIS GEL
							PACKING IN WASH PIPE LEAKING AND GOOSE NECK IS STARTING TO WASH
							TOH TO SHOE TO REPAIR GOOSENECK AND PACKING ON TOP DRIVE
							HOLE TAKING PROPER FILL
							SAFETY BREAK: TEAMWORK
							WORKING ON TOP DRIVE
							TAKING OFF GOOSENECK DUE TO WASHOUT AND WAIT ON REPLACEMENT
							SAFETY BREAK: PREVENTATIVE MAINTENANCE
Total Time		24.00					

Safety Incident? N Days since Last RI: 86.00 Weather Comments:  
 Environ Incident? N Days since Last LTA: 449.00  
 Incident Comments:  
 No incidents reported last 24 hours.

**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 03/31/2012  
**Report No:** 10

**Other Remarks:**

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
TRAILER TEL NUMBER: (713) 948-3590  
FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS

DAYS WORKED WITH NO LTA: 449

DAYS SINCE LAST RI: 86

NUMBER SAFETY MEETINGS: 4

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 15

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE JUMP OUT OF FORKLIFT BEFORE IT CAME TO A COMPLETE STOP. STOPPED HIM AND WARNED HIM OF THE HAZARDS AND JOB CONTINUED WITHOUT INCIDENT

PT HRS FOR THE MONTH: 152.5

## DAILY OPERATIONS PARTNER REPORT

**Date:** 04/01/2012  
**Report No:** 11

Current Formation:	@	Lithology:
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Current Ops:

**24-Hr Summary:** WAITING ON GOOSE NECK FOR TOP DRIVE. INSTALLING GOOSE NECK

24-Hr Forecast:	INSTALL GOOSE NECK ON TOP DRIVE AND TIH TO 7426' TO DRILL 7 7/8" PRODUCTION HOLE TO 11450'
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PERSONNEL		SURVEY DATA (LAST 6)								
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N/S	E/W	VS	DLS	Build
Supervisor 2:	DARRELL WERTHER	7,440.0			7,439.42	83.5	0.0	83.5	0.05	-0.05
Engineer:	IVAN OTERO	6,442.0	0.50	0.00	6,441.44	79.1	0.0	79.1	0.04	-0.04
Geologist:	TIM LYONS	5,444.0	0.90	0.00	5,443.51	66.9	0.0	66.9	0.01	-0.01
Oxy Personnel:	0	4,439.0	1.00	0.00	4,438.65	50.3	0.0	50.3	0.03	0.03
Contractor Personnel:	0	3,475.0	0.70	0.00	3,474.76	36.0	0.0	36.0	0.04	-0.04
Total on Site:	0	2,400.0	1.10	0.00	2,399.89	19.1	0.0	19.1	0.09	0.09

[illegible]

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
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<b>Comments:</b> Last 24 hrs: Drilled from 7267" to 7426" before Top Drive Failure. Currently working on Top Drive.	<b>Total Length:</b>	826.01 ft	<b>Wt below Jars:</b>

[illegible]

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 04/01/2012  
 Report No: 11

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	31PRDR	RIGMT	REP	PT	WAITING ON GOOSENECK FOR TOP DRIVE SAFETY BREAK: STAYING FOCUSED DURING DOWN TIME
4:00	6:00	2.00	31PRDR	RIGMT	REP	PT	WAITING ON GOOSENECK FOR TOP DRIVE
6:00	10:00	4.00	31PRDR	RIGMT	REP	PT	WAITING ON GOOSENECK FOR TOP DRIVE SAFETY BREAK: PURPOSE OF JSAS
10:00	14:00	4.00	31PRDR	RIGMT	REP	PT	WAITING ON GOOSENECK FOR TOP DRIVE SAFETY BREAK: HEAT STAY HYDRATED
14:00	18:00	4.00	31PRDR	RIGMT	REP	PT	WAITING ON HOT SHOT FROM HOUSTON TO ARRIVE WITH NEW GOOSENECK
18:00	22:30	4.50	31PRDR	RIGMT	REP	PT	WAITING ON HOT SHOT FROM HOUSTON TO ARRIVE WITH NEW GOOSE NECK HOT SHOT ARRIVES @ 22:30 HRS
22:30	0:00	1.50	31PRDR	RIGMT	REP	PT	INSTALLING GOOSENECK
Total Time		24.00					

Safety Incident? N Days since Last RI: 87.00 Weather Comments:

Environ Incident? N Days since Last LTA: 450.00

## Incident Comments:

No incidents reported last 24 hours.

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
 TRAILER TEL NUMBER: (713) 948-3590  
 FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS

DAYS WORKED WITH NO LTA: 450

DAYS SINCE LAST RI: 87

NUMBER SAFETY MEETINGS: 3

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 15

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE WEARING SAFETY GLASSES AROUND NECK. STOPPED HIM, WARNED HIM OF THE HAZARDS AND OXY POLICY. HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT.

TOTAL PT HRS: 24

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/02/2012  
Report No: 12

Wellbore / Top MD: 00 @ 44 ft Rig: SAVANNA 643 Ref Datum: Original KB @3,045.10ft DFS: 9.75  
Today's MD: 8636 ft Progress: 1210 ft Ground Elev: 3,029.70 ft Daily Cost: \$50,444  
Prev MD: 7426 ft Rot Hrs Today: 14.00 hr AFE MD/Days: 11,400.0 / 13.6 days Cum Cost: \$736,676  
PBMD: Avg ROP Today: 86.4 ft/hr AFE Number: 1145637#0102 AFE Cost: \$1,224,234

Current Formation: SPRABERRY@

Lithology:

## Current Ops:

24-Hr Summary: REPLACED GOOSE NECK ON TOP DRIVE, TIH TO 7426' AND DRILLED 7 7/8" PRODUCTION HOLE TO 8636'

24-Hr Forecast: RR 04/07/2012 ROL 04/09/2012 DRILL 7 7/8" PRODUCTION HOLE TO TD

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 1,870ft	Str Wt Up/Dn:	164.0 / 162.0 kip	Pump Rate:	603.8	Conn:	314	850
Next Casing:	5.500in @ 11,455ft	Str Wt Rot:	163.0 kip	Pump Press:	2390	Trip:	200	241
Last BOP Press Test:	03/26/2012	Torq Off Btm:	9,000.0 ft-lbf			Backgr:	353	462
Form Test/EMW:	FIT / 12.11 ppg	Torq On Btm:	3,000.0 ft-lbf					

PERSONNEL		SURVEY DATA (LAST 6)								
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS	Build
Supervisor 2:	DARRELL WERTHER	8,569.0	2.30	0.00	8,567.43	141.4	0.0	141.4	0.04	0.04
Engineer:	IVAN OTERO	7,440.0	1.90	0.00	7,439.19	100.0	0.0	100.0	0.14	0.14
Geologist:	TIM LYONS	7,440.0			7,439.42	83.5	0.0	83.5	0.05	-0.05
Oxy Personnel:	2	6,442.0	0.50	0.00	6,441.44	79.1	0.0	79.1	0.04	-0.04
Contractor Personnel:	12	5,444.0	0.90	0.00	5,443.51	66.9	0.0	66.9	0.01	-0.01
Total on Site:	14	4,439.0	1.00	0.00	4,438.65	50.3	0.0	50.3	0.03	0.03

## BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	7.875	ULTERRA DRILLING T	U616M	M144554	M423	6x16	7012		--	--

## BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	14.00	20.00	1210	1624	86.4	81.2	15.0/25.0	65/90	1.178	216	164.8	1.6

## MUD DATA - M-I SWACO

Engineer: Ty Dove MBT: 17.5 lbm/bbl  
Sample From: In pH: 10.0  
Mud Type: Freshwater/Gel Pm / Pom: 0.00  
Time / MD: 13:30 / 7,743.0 Pf / Mf: 0.1 / 0.4  
Density @ Temp: 8.90 / 0 Chlorides: 40,000  
Rheology Temp: 120 Ca+ / K+: 1,200 / 0  
Viscosity: 40.00 CaCl2: 0.00  
PV / YP: 11 / 17 Clom: 0.00  
Gels 10s/10m/30m: 13 / 14 / 15 Lime: 0.00  
API WL: 45.00 ES: 0.00  
HTHP WL: 0.00 ECD: 9.28  
Cake API / HTHP: 2.0 / .0 n / K: 0.00 / 0.000  
Solids / Sol Corr: 2.00 / 0.00 Carbonate: 2 ppm  
Oil / Water: 0.0 / 99.6 Bicarbonate: 0 ppm  
Sand: 0.01 Form Loss: 0.0 / 96.0  
Water Added: 0.0 bbl Fluid Disch: /  
Oil Added:  
LGS: 2.30 / 20.50

VG Meter: 13@3 / 17@6 / 19@100 / 22@200 / 28@300 / 39@600

Comments: Recieved parts and repaired top drive. Tripped in hole and tagged bottom and continued drilling. Drilled F/7426"-T/7679"

## LAST OR CURRENT BHA

BHA No: 3	Bit No: 3	MD In: 7012 ft		
Purpose:	MD Out:			
Component	OD	ID	Jts	Length
HWDP	4.500	2.875	4	121.78
DRILLING JAR	6.375	2.750	1	32.37
HWDP	4.500	2.875	8	242.67
SPIRAL DRILL COLLAR	7.930	2.750	12	349.91
MWD TOOL	6.500	3.250	1	4.97
NEAR BIT STABILIZER	6.500	2.250	1	5.71
DRILL COLLAR	6.250	2.375	1	28.80
NEAR BIT STABILIZER	6.500	2.250	1	6.63
VERTICAL DRILLING TOOL	6.500	1.720	1	32.17
PDC BIT	8.750		1	1.00

Total Length: 826.01 ft Wt below Jars:

## MUD PRODUCTS

Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
CEDAR FIBER CHIP SEAL	BG,40 LB	7.00
DRIVE-BY ENGINEERING	EACH	1.00
LIME	BG,50 LB	10.00
M-I-X II FINE	BG,25 LB	36.00
PREMIX PIT	EACH	1.00

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/02/2012  
Report No: 12

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	2:30	2.50	31PRDR	RIGMT	REP	PT	REPLACE GOOSE NECK ON TOP DRIVE
2:30	3:00	0.50	31PRDR	CIRC	CNDFLD	PT	CIRCULATE AND TEST TOP DRIVE
3:00	6:00	3.00	31PRDR	TRIP	BHA	PT	TRIP IN HOLE  WELL BORE GIVING PROPER DISPLACEMENT  SAFETY BREAK: TRIPPING IN HOLE
6:00	7:00	1.00	31PRDR	CIRC	CNDFLD	PT	CIRCULATE @ 4500' AND BY PASS ALL HEAVY MUD TO RESERVE PIT CONTINUE TO TRIP IN HOLE
7:00	10:00	3.00	31PRDR	TRIP	BHA	PT	TRIP IN HOLE AND WASH LAST TWO STANDS TO BOTTOM
10:00	14:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 7246' TO 7707', 461' AVG ROP 115 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.1, MW OUT 9.3 VIS IN 40 VIS OUT 35 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: HAZARDS IN WORK PLACE
14:00	18:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 7707' TO 8117', 410' AVG ROP 102 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.2, MW OUT 9.3 VIS IN 38 VIS OUT 38 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL
18:00	22:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 8117' TO 8486', 369' AVG ROP 93 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.2, MW OUT 9.3 VIS IN 38 VIS OUT 38 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: MAKING CONNECTIONS
22:00	0:00	2.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 8486' TO 8636', 150 FT, AVG ROP 75 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  SURVEY @ 8490 2.3 DEGREES  MW IN 9.2, MW OUT 9.2 VIS IN 38 VIS OUT 39 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS GEL  SAFETY BREAK: GOOD HOUSE KEEPING
Total Time		24.00					

**DAILY OPERATIONS PARTNER REPORT**

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 04/02/2012  
 Report No: 12

Safety Incident?	N	Days since Last RI:	88.00	Weather Comments:
Environ Incident?	N	Days since Last LTA:	451.00	
Incident Comments: No incidents reported last 24 hours.				

**Other Remarks:**

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
 TRAILER TEL NUMBER: (713) 948-3590  
 FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS  
 DAYS WORKED WITH NO LTA: 451  
 DAYS SINCE LAST RI: 88  
 NUMBER SAFETY MEETINGS: 4  
 NUMBER NEAR MISSES: 0  
 STOP CARDS: 2  
 DAILY JSA'S REVIEWED: 14  
 PERMITS TO WORK:0  
 LO/TO: X  
 PRE-SPUD INSPECTION: X  
 POWER-LINE CHECK LIST: X  
 SWA'S: X  
 BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE STANDING ON CAT WALK WHILE DRILL PIPE WAS BEING HOISTED FROM V DOOR. STOPPED HIM AND WARNED HIM OF THE HAZARDS, HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT.

TOTAL PT HRS: 29

OXY USA INC  
**DAILY OPERATIONS PARTNER REPORT**

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/03/2012  
Report No: 13

Wellbore / Top MD:	00 @ 44 ft	Rig:	SAVANNA 643	Ref Datum:	Original KB @3,045.10ft	DFS:	10.75
Today's MD:	10,054 ft	Progress:	1418 ft	Ground Elev:	3,029.70 ft	Daily Cost:	\$39,916
Prev MD:	8636 ft	Rot Hrs Today:	24.00 hr	AFE MD/Days:	11,400.0 / 13.6 days	Cum Cost:	\$776,592
PBMD:		Avg ROP Today:	59.1 ft/hr	AFE Number:	1145637#0102	AFE Cost:	\$1,224,234

Current Formation: WOLFCAMP@9,900.0      Lithology:

Current Ops:

24-Hr Summary: DRILLED 7 7/8" PRODUCTION HOLE TO 10054'

24-Hr Forecast: RR 04/07/2012 ROL 04/09/2012 DRILL 7 7/8" PRODUCTION HOLE TO 11450'

CASING/WELL CONTROL	HOOKLOAD & TORQUE	HYDRAULICS	MUD GAS	Avg	Max
Last Casing: 9.625in @ 1,870ft	Str Wt Up/Dn: 185.0 / 185.0 kip	Pump Rate: 609.7	Conn:	116	164
Next Casing: 5.500in @ 11,455ft	Str Wt Rot: 185.0 kip	Pump Press: 2570	Trip:	0	0
Last BOP Press Test: 03/26/2012	Torq Off Btm: 3,000.0 ft-lbf		Backgr:	104	106
Form Test/EMW: FIT / 12.11 ppg	Torq On Btm: 10,000.0 ft-lbf				

PERSONNEL		SURVEY DATA (LAST 6)								
Supervisor 1:	BILL LORANCE	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS	Build
Supervisor 2:	DARRELL WERTHER	9,521.0	2.30	0.00	9,518.66	179.6	0.0	179.6	0.00	0.00
Engineer:	IVAN OTERO	8,569.0	2.30	0.00	8,567.43	141.4	0.0	141.4	0.04	0.04
Geologist:	TIM LYONS	7,440.0	1.90	0.00	7,439.19	100.0	0.0	100.0	0.14	0.14
Oxy Personnel:	2	7,440.0			7,439.42	83.5	0.0	83.5	0.05	-0.05
Contractor Personnel:	13	6,442.0	0.50	0.00	6,441.44	79.1	0.0	79.1	0.04	-0.04
Total on Site:	15	5,444.0	0.90	0.00	5,443.51	66.9	0.0	66.9	0.01	-0.01

BIT RECORD										
Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	7.875	ULTERRA DRILLING T	U616M	M144554	M423	6x16	7012		--	--

BIT OPERATING PARAMETERS TODAY												
Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	24.00	44.00	1418	3042	59.1	69.1	20.0/25.0	85/100	1.178	229	166.0	1.7

MUD DATA - M-I SWACO				LAST OR CURRENT BHA					
Engineer: Ty Dove		MBT: 17.5 lbm/bbl		BHA No: 3		Bit No: 3		MD In: 7012 ft	
Sample From: In		pH: 10.5		Purpose: MD Out:					
Mud Type: Freshwater/Gel		Pm / Pom: 0.00		Component		OD	ID	Jts	Length
Time / MD: 12:30 / 9,457.0		Pf / Mf: 0.2 / 0.5		HWDP		4.500	2.875	4	121.78
Density @ Temp: 9.30 / 90		Chlorides: 45,000		DRILLING JAR		6.375	2.750	1	32.37
Rheology Temp: 120		Ca+ / K+: 1,600 / 0		HWDP		4.500	2.875	8	242.67
Viscosity: 42.00		CaCl2: 0.00		SPIRAL DRILL COLLAR		7.930	2.750	12	349.91
PV / YP: 11 / 15		Clom: 0.00		MWD TOOL		6.500	3.250	1	4.97
Gels 10s/10m/30m: 12 / 13 / 15		Lime: 0.00		NEAR BIT STABILIZER		6.500	2.250	1	5.71
API WL: 30.00		ES: 0.00		DRILL COLLAR		6.250	2.375	1	28.80
HTHP WL: 0.00		ECD: 9.65		NEAR BIT STABILIZER		6.500	2.250	1	6.63
Cake API / HTHP: 3.0 / .0		n / K: 0.00 / 0.000		VERTICAL DRILLING TOOL		6.500	1.720	1	32.17
Solids / Sol Corr: 2.20 / 0.00		Carbonate: 4 ppm		PDC BIT		8.750		1	1.00
Oil / Water: 0.0 / 97.4		Bicarbonate: 0 ppm							
Sand: 0.01		Form Loss: 0.0 / 96.0							
Water Added: 370.0 bbl		Fluid Disch: /							
Oil Added:									
LGS: 4.20 / 38.50									
VG Meter: 14@3 / 17@6 / 18@100 / 22@200 / 26@300 / 37@600				Total Length: 826.01 ft Wt below Jars:					
Comments: Drilled F/7679"-T/9457" with no issues to report. Currently drilling ahead with no issues reported.									

MUD PRODUCTS		
Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
CAUSTIC SODA	BG,50 LB	7.00
DEFOAM A	CAN,5 GA	1.00
DRIVE-BY ENGINEERING	EACH	1.00
Mix II Course	bG, 25 LBS	9.00
M-I-X II FINE	BG,25 LB	6.00
MYACIDE GA25	CAN,5 GA	4.00
PREMIX PIT	EACH	1.00
SODA ASH	BG,50 LB	21.00



**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

**Date:** 04/03/2012  
**Report No:** 13

**OPERATIONS**

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	31PRDR	DRILL	MTRVER	P	<p>DRILL 7 7/8" PRODUCTION HOLE FROM 8636' TO 8915', 280 FT, AVG ROP 70 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM</p> <p>CIRCULATE THROUGH STEEL PIT</p> <p>MW IN 9.2, MW OUT 9.3            VIS IN 38 VIS OUT 40            PH 11            WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE</p> <p>PUMP 20 BBL 60+ VIS GEL</p> <p>SAFETY BREAK: STAYING FOCUSED THE LAST TWO HRS OF TOUR</p>
4:00	6:00	2.00	31PRDR	DRILL	MTRVER	P	<p>DRILL 7 7/8" PRODUCTION HOLE FROM 8915' TO 9052', 137 FT, AVG ROP 69 FPH WOB 20-25 K., TRPM 181 , FLOW RATE 600 GPM, PUMP PSI 2300 TORQUE 9K ON BTM</p> <p>CIRCULATE THROUGH STEEL PIT</p> <p>MW IN 9.2, MW OUT 9.3            VIS IN 38 VIS OUT 40            PH 11            WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE</p> <p>PUMP 20 BBL 60+ VIS GEL</p>
6:00	10:00	4.00	31PRDR	DRILL	MTRVER	P	<p>DRILL 7 7/8" PRODUCTION HOLE FROM 9052' TO 9280', 228 FT, AVG ROP 57 FPH WOB 15-20K., TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM</p> <p>CIRCULATE THROUGH STEEL PIT</p> <p>MW IN 9.2, MW OUT 9.3            VIS IN 38 VIS OUT 40            PH 11            WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE</p> <p>PUMP 20 BBL 60+ VIS</p> <p>SAFETY BREAK : SET DOWN WITH SAVANNA HES PERSONEL</p>
10:00	14:00	4.00	31PRDR	DRILL	MTRVER	P	<p>DRILL 7 7/8" PRODUCTION HOLE FROM 9280' TO 9557', 277 FT, AVG ROP 69 FPH WOB 15-20K., TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM</p> <p>CIRCULATE THROUGH STEEL PIT</p> <p>MW IN 9.3, MW OUT 9.3            VIS IN 42 VIS OUT 45            PH 11            WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE</p> <p>PUMP 20 BBL 60+ VIS</p> <p>SAFETY BREAK : SET DOWN WITH SAVANNA HES PERSONEL</p>

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 04/03/2012  
 Report No: 13

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
14:00	18:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 9557' TO 9760', 203 FT, AVG ROP 51 FPH WOB 15-20K,. TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS  SAFETY BREAK : WINDY CONDITIONS
18:00	22:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 9760' TO 9969', 209 FT, AVG ROP 52 FPH WOB 15-20K,. TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS  SAFETY BREAK : PINCH POINTS
22:00	0:00	2.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 9969' TO 10054', 85 FT, AVG ROP 42 FPH WOB 15-20K,. TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 39 VIS OUT 40 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS

Total Time 24.00

Safety Incident? N Days since Last RI: 89.00 Weather Comments:

Environ Incident? N Days since Last LTA: 452.00

## Incident Comments:

No incidents reported last 24 hours.

**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 04/03/2012  
**Report No:** 13

**Other Remarks:**

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
TRAILER TEL NUMBER: (713) 948-3590  
FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS

DAYS WORKED WITH NO LTA: 451

DAYS SINCE LAST RI: 88

NUMBER SAFETY MEETINGS: 5

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 12

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED 3RD PARTY EMPLOYEE BACKING WITHOUT A SPOTTER, STOPPED HIM AND WARNED HIM OF OXY POLICY HE COMPLIED, GOT A SPOTTER AND JOB CONTINUED WITHOUT INCIDENT

TOTAL PT HRS: 24

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/04/2012  
Report No: 14

Wellbore / Top MD: 00 @ 44 ft Rig: SAVANNA 643 Ref Datum: Original KB @3,045.10ft DFS: 11.75  
Today's MD: 11,353 ft Progress: 1299 ft Ground Elev: 3,029.70 ft Daily Cost: \$31,226  
Prev MD: 10,054 ft Rot Hrs Today: 24.00 hr AFE MD/Days: 11,400.0 / 13.6 days Cum Cost: \$807,818  
PBMD: Avg ROP Today: 54.1 ft/hr AFE Number: 1145637#0102 AFE Cost: \$1,224,234  
Current Formation: STRAWN@11,080.0 Lithology:

Current Ops:  
24-Hr Summary: DRILL 7 7/8" PRODUCTION HOLE TO 11353'  
24-Hr Forecast: RR 04/07/2012 ROL 04/09/2012 DRILL 7 7/8" PRODUCTION HOLE TO TD. LDDP RUN 5.5" PRODUCTION CASING TO 11456' & PUMP CEMENT

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 1,870ft	Str Wt Up/Dn:	205.0 / 204.0 kip	Pump Rate:	606.8	Conn:	172	214
Next Casing:	5.500in @ 11,455ft	Str Wt Rot:	204.0 kip	Pump Press:	2800	Trip:	0	0
Last BOP Press Test:	03/26/2012	Torq Off Btm:	4,000.0 ft-lbf			Backgr:	122	130
Form Test/EMW:	FIT / 12.11 ppg	Torq On Btm:	10,000.0 ft-lbf					

PERSONNEL		SURVEY DATA (LAST 6)								
Supervisor 1:	MONTY KEY	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS	Build
Supervisor 2:	DARRELL WERTHER	10,473.0	1.10	0.00	10,470.23	207.8	0.0	207.8	0.13	-0.13
Engineer:	IVAN OTERO	9,521.0	2.30	0.00	9,518.66	179.6	0.0	179.6	0.00	0.00
Geologist:	TIM LYONS	8,569.0	2.30	0.00	8,567.43	141.4	0.0	141.4	0.04	0.04
Oxy Personnel:	2	7,440.0	1.90	0.00	7,439.19	100.0	0.0	100.0	0.14	0.14
Contractor Personnel:	13	7,440.0			7,439.42	83.5	0.0	83.5	0.05	-0.05
Total on Site:	15	6,442.0	0.50	0.00	6,441.44	79.1	0.0	79.1	0.04	-0.04

BIT RECORD										
Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	7.875	ULTERRA DRILLING T	U616M	M144554	M423	6x16	7012		--	--

BIT OPERATING PARAMETERS TODAY												
Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	24.00	68.00	1299	4341	54.1	63.8	20.0/25.0	65/90	1.178	227	165.2	1.7

MUD DATA - M-I SWACO					LAST OR CURRENT BHA				
Engineer: Ty Dove	MBT:	17.5 lbm/bbl	BHA No: 3	Bit No: 3	MD In: 7012 ft				
Sample From: In	pH:	9.5	Purpose:						MD Out:
Mud Type: Freshwater/Gel	Pm / Pom:	0.00							
Time / MD: 18:00 / 11,119.0	Pf / Mf:	0.1 / 0.4							
Density @ Temp: 9.30 / 90	Chlorides:	43,000							
Rheology Temp: 120	Ca+ / K+:	1,600 / 0							
Viscosity: 45.00	CaCl2:	0.00							
PV / YP: 11 / 20	Clom:	0.00							
Gels 10s/10m/30m: 13 / 14 / 15	Lime:	0.00							
API WL: 30.00	ES:	0.00							
HTHP WL: 0.00	ECD:	9.70							
Cake API / HTHP: 3.0 / .0	n / K:	0.00 / 0.000							
Solids / Sol Corr: 2.10 /	Carbonate:	2 ppm							
Oil / Water: 0.0 / 97.3	Bicarbonate:								
Sand: 0.01	Form Loss:	24.0 / 120.0							
Water Added: 300.0 bbl	Fluid Disch:	/							
Oil Added:									
LGS: 4.40 / 39.70									
VG Meter: 14@3 / 18@6 / 20@100 / 24@200 / 31@300 / 42@600									
Comments: Drilled F/9457"-T/11;119" with no issues. At 11;100" started adding starch as per DSM orders to help reduce WL.									

MUD PRODUCTS		
Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
CAUSTIC SODA	BG,50 LB	6.00
DRIVE-BY ENGINEERING	EACH	1.00
M-I GEL BULK	TON	23.01
M-I WATE (BARITE)	100 LBS/SK	45.00
MY LO JEL	BG,50 LB	18.00
PREMIX PIT	EACH	1.00
SODA ASH	BG,50 LB	9.00

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 04/04/2012  
 Report No: 14

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	4:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 10054' TO 10346', 292 FT, AVG ROP 73 FPH WOB 15-20K., TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS  SAFETY BREAK : SLIPS TRIPS AND FALLS
4:00	6:00	2.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 10346' TO 10506', 160FT, AVG ROP 80 FPH WOB 15-20K., TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 43 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS
6:00	10:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 10506' TO 10785', 279 FT, AVG ROP 69 FPH WOB 15-20K., TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS  SAFETY BREAK: LO/TO & TRY PROCEDURES
10:00	14:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 10785' TO 11025', 240 FT, AVG ROP 60 FPH WOB 15-20K., TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+ VIS  SAFETY BREAK: FORKLIFT OPS

## DAILY OPERATIONS PARTNER REPORT

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

**Date:** 04/04/2012  
**Report No:** 14

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
14:00	18:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 11025' TO 11117', 92 FT, AVG ROP 23FPH WOB 20-25K,. TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+  SAFETY BREAK: MIXING CHEMICALS
18:00	22:00	4.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 11117' TO 11270', 153 FT, AVG ROP 38 FPH WOB 20-25K,. TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+  SAFETY BREAK: MSDS SHEETS
22:00	0:00	2.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 11270' TO 11353', 153 FT, AVG ROP 21 FPH WOB 20-25K,. TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 44 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+

Total Time 24.00

**Safety Incident?** N **Days since Last RI:** 90.00 **Weather Comments:**

**Environ Incident?** N **Days since Last LTA:** 453.00

**Incident Comments:**

No incidents reported last 24 hours.

**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 04/04/2012  
**Report No:** 14

**Other Remarks:**

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
TRAILER TEL NUMBER: (713) 948-3590  
FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

SAFETY TOPIC OF THE DAY: MAKING CONNECTIONS

DAYS WORKED WITH NO LTA: 453

DAYS SINCE LAST RI: 90

NUMBER SAFETY MEETINGS: 5

NUMBER NEAR MISSES: 0

STOP CARDS: 2

DAILY JSA'S REVIEWED: 13

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE NOT WEARING SEATBELT WHILE DRIVING FORKLIFT. STOPPED HIM AND INFORMED HIM OF THE HAZARDS, HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT

TOTAL PT HRS: 24

OXY USA INC  
**DAILY OPERATIONS PARTNER REPORT**

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/05/2012  
Report No: 15

Wellbore / Top MD:	00 @ 44 ft	Rig:	SAVANNA 643	Ref Datum:	Original KB @3,045.10ft	DFS:	12.75
Today's MD:	11,460 ft	Progress:	107 ft	Ground Elev:	3,029.70 ft	Daily Cost:	\$38,182
Prev MD:	11,353 ft	Rot Hrs Today:	3.00 hr	AFE MD/Days:	11,400.0 / 13.6 days	Cum Cost:	\$846,000
PBMD:		Avg ROP Today:	35.7 ft/hr	AFE Number:	1145637#0102	AFE Cost:	\$1,224,234

Current Formation: STRAWN@11,080.0

Lithology:

**Current Ops:**

24-Hr Summary: DRILL 7 7/8" PRODUCTION HOLE TO TD AT 11,460', LAY DOWN DRILL STRING & BHA, RUN 5.5" PRODUCTION CASING

24-Hr Forecast: RR 04/07/2012 ROL 04/09/2012: RUN & CMT 5.5" PROD CSG, HANG BOP & SET SLIPS, N/D BOP, INSTALL TUBING HEAD, RELEASE RIG, PF

CASING/WELL CONTROL	HOOKLOAD & TORQUE	HYDRAULICS	MUD GAS	Avg	Max
Last Casing: 9.625in @ 1,870ft	Str Wt Up/Dn: 207.0 / 200.0 kip	Pump Rate: 606.8	Conn:	175	200
Next Casing: 5.500in @ 11,455ft	Str Wt Rot: 205.0 kip	Pump Press: 2800	Trip:	0	0
Last BOP Press Test: 03/26/2012	Torq Off Btm: 10,000.0 ft-lbf		Backgr:	120	125
Form Test/EMW: FIT / 12.11 ppg	Torq On Btm: 4,000.0 ft-lbf				

PERSONNEL	SURVEY DATA (LAST 6)								
	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS	Build
Supervisor 1: MONTY KEY	11,354.0	0.70	0.00	11,351.12	221.7	0.0	221.7	0.05	-0.05
Supervisor 2: AUGIE VELASQUEZ	10,473.0	1.10	0.00	10,470.23	207.8	0.0	207.8	0.13	-0.13
Engineer: IVAN OTERO	9,521.0	2.30	0.00	9,518.66	179.6	0.0	179.6	0.00	0.00
Geologist: TIM LYONS	8,569.0	2.30	0.00	8,567.43	141.4	0.0	141.4	0.04	0.04
Oxy Personnel: 2	7,440.0	1.90	0.00	7,439.19	100.0	0.0	100.0	0.14	0.14
Contractor Personnel: 20	7,440.0			7,439.42	83.5	0.0	83.5	0.05	-0.05
Total on Site: 22									

**BIT RECORD**

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	7.875	ULTERRA DRILLING T	U616M	M144554	M423	6x16	7012	11,460	2-1-CT-N	D-I-CT-TD

**BIT OPERATING PARAMETERS TODAY**

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
3	3.00	71.00	107	4448	35.7	62.6	20.0/25.0	80/90	1.178	222	163.4	1.6

**MUD DATA - M-I SWACO**

<p>Engineer: DAN OCHS Sample From: In Mud Type: Freshwater/Gel Time / MD: 18:00 / 11,460.0 Density @ Temp: 9.40 / 90 Rheology Temp: 120 Viscosity: 45.00 PV / YP: 11 / 24 Gels 10s/10m/30m: 13 / 14 / 15 API WL: 30.00 HTHP WL: 0.00 Cake API / HTHP: 3.0 / .0 Solids / Sol Corr: 2.10 / Oil / Water: 0.0 / 97.3 Sand: 0.01 Water Added: 300.0 bbl Oil Added: LGS: 4.60 / 42.20</p>	<p>MBT: 17.5 lbm/bbl pH: 9.0 Pm / Pom: 0.00 Pf / Mf: 0.2 / 0.4 Chlorides: 39,000 Ca+ / K+: 1,400 / 0 CaCl2: 0.00 Clom: 0.00 Lime: 0.00 ES: 0.00 ECD: 9.70 n / K: 0.00 / 0.000 Carbonate: 2 ppm Bicarbonate: 0 ppm Form Loss: 0.0 / 120.0 Fluid Disch: /</p>
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VG Meter: 14@4 / 15@6 / 24@100 / 28@200 / 35@300 / 46@600

Comments: NO TREATMENTS AT THIS TIME.

**LAST OR CURRENT BHA**

BHA No: 3		Bit No: 3		MD In: 7012 ft	
Purpose:		MD Out:		11,460 ft	
Component		OD	ID	Jts	Length
HWDP		4.500	2.875	4	121.78
DRILLING JAR		6.375	2.750	1	32.37
HWDP		4.500	2.875	8	242.67
SPIRAL DRILL COLLAR		7.930	2.750	12	349.91
MWD TOOL		6.500	3.250	1	4.97
NEAR BIT STABILIZER		6.500	2.250	1	5.71
DRILL COLLAR		6.250	2.375	1	28.80
NEAR BIT STABILIZER		6.500	2.250	1	6.63
VERTICAL DRILLING TOOL		6.500	1.720	1	32.17
PDC BIT		8.750		1	1.00

Total Length: 826.01 ft      Wt below Jars:

**MUD PRODUCTS**

Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
DRIVE-BY ENGINEERING	EACH	1.00
M-I WATE (BARITE)	100 LBS/SK	42.00
PREMIX PIT	EACH	1.00



## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 04/05/2012  
 Report No: 15

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	3:00	3.00	31PRDR	DRILL	MTRVER	P	DRILL 7 7/8" PRODUCTION HOLE FROM 11353' TO 11460', 107 FT, AVG ROP 35 FPH WOB 20-25K., TRPM 186 , FLOW RATE 600 GPM, PUMP PSI 2400 TORQUE 9K ON BTM  CIRCULATE THROUGH STEEL PIT  SURVEY @ 11354' .7  MW IN 9.3, MW OUT 9.3 VIS IN 42 VIS OUT 45 PH 11 WHEN MUD WT. GET TO 9.4 PPG DUMP AND DILUTE  PUMP 20 BBL 60+
3:00	4:30	1.50	31PRDR	CIRC	CNDHOL	P	CIRCULATE TWO BOTTOMS UP AND HOLD PJSM BEFORE LAYING DOWN DRILL PIPE  SAFWTY BREAK: ON LAYING DOWN DRILL PIPE
4:30	6:00	1.50	31PRDR	TRIP	PULD	P	LAYING DOWN DRILL PIPE F/ 11,460- T/ 10,800 FT.  WELL BORE STATIC
6:00	10:00	4.00	31PRDR	TRIP	PULD	P	LAYING DOWN DRILL PIPE F/ 10,800 FT. - T/ 7,040 FT.  SAFETY BREAK: SLIPS AND TRIP HAZARDS
10:00	14:00	4.00	31PRDR	TRIP	PULD	P	LAYING DOWN DRILL PIPE F/ 7,040 FT. - T/ 4,320 FT.  SAFETY BREAK: USING STAIRS AND HANDRAILS
14:00	18:00	4.00	31PRDR	TRIP	PULD	P	LAYING DOWN DRILL PIPE F/ 4,020 FT. - T/ 1339 FT.
18:00	19:30	1.50	31PRDR	RIGMT	REP	PT	CHANGE OUT SKATE CABLE ON PIPE HANDLER  SAFETY BREAK: WORKING ON SKATE CABLE
19:30	23:00	3.50	31PRDR	TRIP	PULD	P	LAYING DOWN DRILL PIPE & BHA F/ 1339 FT. TO SURFACE  RETRIEVE WEAR BUSHING  SAFETY BREAK: LAYING DOWN BHA
23:00	0:00	1.00	31PRRC	CSG	RIGUP	P	CLEAN & CLEAR FLOOR, GET READY TO RUN 5.5 PRODUCTION CASING  PJSM WITH B & L CASING  RIG UP CASING CREW / TORQUE TURN

Total Time 24.00

Safety Incident? N Days since Last Ri: 91.00 Weather Comments:

Environ Incident? N Days since Last LTA: 454.00

## Incident Comments:

No incidents reported last 24 hours.

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/05/2012  
Report No: 15

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
TRAILER TEL NUMBER: (713) 948-3590  
FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

NOTIFIED TRRC OF SPUD @ 03:00 HRS ON 3/24/2012 SPOKE WITH AUDREY

NOTIFIED TRRC OF INTENTION TO RUN & CEMENT 5.5" PROD CASING @ 11:55 HRS ON 04/05/2012 SPOKE WITH CORINA

SAFETY TOPIC OF THE DAY: LAYING DOWN DRILL PIPE

DAYS WORKED WITH NO LTA: 454

DAYS SINCE LAST RI: 91

NUMBER SAFETY MEETINGS: 10

NUMBER NEAR MISSES: 0

STOP CARDS: 15

DAILY JSA'S REVIEWED: 12

PERMITS TO WORK:0

LO/TO: X

PRE-SPUD INSPECTION: X

POWER-LINE CHECK LIST: X

SWA'S: X

BEST STOP CARD OF THE DAY : OBSERVED EMPLOYEE SLIDING DOWN HANDRAILS WITH HANDS AND HITTING EVERY OTHER STEP WHEN GOING DOWN V-DOOR STAIRS. STOPPED HIM AND TOLD HIM TO SLOW DOWN AND USE STAIRS AND HANDRAILS THE PROPER WAY AND DISCUSSED THE DANGERS OF NOT USING THE STAIRS THE RIGHT WAY AND AND REMINDED HIM OF COMPANY POLICIES AND PROCEDURES. HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT.

TOTAL PT HRS: 25.5

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/06/2012  
Report No: 16

Wellbore / Top MD: 00 @ 44 ft Rig: SAVANNA 643 Ref Datum: Original KB @3,045.10ft DFS: 13.75  
Today's MD: 11,460 ft Progress: 0 ft Ground Elev: 3,029.70 ft Daily Cost: \$57,281  
Prev MD: 11,460 ft Rot Hrs Today: 0.00 hr AFE MD/Days: 11,400.0 / 13.6 days Cum Cost: \$903,281  
PBMD: Avg ROP Today: 0.0 ft/hr AFE Number: 1145637#0102 AFE Cost: \$1,224,234

Current Formation: STRAWN@11,080.0

Lithology:

## Current Ops:

24-Hr Summary: RUN &amp; CEMENT 5.5" PROD CSG, HANG BOP &amp; SET CASING SLIPS, NIPPLE DOWN BOP

24-Hr Forecast: RR 04/07/2012 ROL 04/07/2012: NIPPLE DOWN BOP, INSTALL TUBING HEAD, RELEASE RIG, PREPARE FOR RIG MOVE FROM CASEY #8, N

CASING/WELL CONTROL		HOOKLOAD & TORQUE		HYDRAULICS		MUD GAS	Avg	Max
Last Casing:	9.625in @ 1,870ft	Str Wt Up/Dn:	/	Pump Rate:	0.0	Conn:	0	0
Next Casing:	5.500in @ 11,455ft	Str Wt Rot:		Pump Press:	0	Trip:	75	880
Last BOP Press Test:	03/26/2012	Torq Off Btm:				Backgr:	74	95
Form Test/EMW:	FIT / 12.11 ppg	Torq On Btm:						

PERSONNEL		SURVEY DATA (LAST 6)							
Supervisor 1:	MONTY KEY	MD	Incl	Azi	TVD	N-S	E-W	VS	DLS
Supervisor 2:	AUGIE VELASQUEZ	11,354.0	0.70	0.00	11,351.12	221.7	0.0	221.7	0.05
Engineer:	IVAN OTERO	10,473.0	1.10	0.00	10,470.23	207.8	0.0	207.8	0.13
Geologist:	TIM LYONS	9,521.0	2.30	0.00	9,518.66	179.6	0.0	179.6	0.00
Oxy Personnel:	2	8,569.0	2.30	0.00	8,567.43	141.4	0.0	141.4	0.04
Contractor Personnel:	35	7,440.0	1.90	0.00	7,439.19	100.0	0.0	100.0	0.14
Total on Site:	37	7,440.0			7,439.42	83.5	0.0	83.5	0.05

## BIT RECORD

Bit No	Size	Manufacturer	Model	Serial No	IADC Code	Nozzles	MD In	MD Out	I-O-D-L	B-G-O-R
3	7.875	ULTERRA DRILLING T	U616M	M144554	M423	6x16	7012	11,460	2-1-CT-N	D-I-CT-TD

## BIT OPERATING PARAMETERS TODAY

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
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## MUD DATA - M-I SWACO

Engineer: Dan Ochs MBT: 20.0 lbm/bbl  
Sample From: In pH: 9.0  
Mud Type: Freshwater/Gel Pm / Pom: 0.00  
Time / MD: 12:00 / 11,460.0 Pf / Mf: 0.1 / 0.3  
Density @ Temp: 9.30 / 0 Chlorides: 35,000  
Rheology Temp: 120 Ca+ / K+: 1,200 / 0  
Viscosity: 51.00 CaCl2: 0.00  
PV / YP: 11 / 27 Clom: 0.00  
Gels 10s/10m/30m: 17 / 21 / 28 Lime: 0.00  
API WL: 20.00 ES: 0.00  
HTHP WL: 0.00 ECD: 0.00  
Cake API / HTHP: 3.0 / .0 n / K: 0.00 / 0.000  
Solids / Sol Corr: 1.70 / 0.00 Carbonate: 3 ppm  
Oil / Water: 0.0 / 97.0 Bicarbonate: 0 ppm  
Sand: 0.01 Form Loss: 0.0 / 120.0  
Water Added: 46.0 bbl Fluid Disch: /  
Oil Added:  
LGS: 4.90 / 44.70

VG Meter: 14@3 / 16@6 / 27@100 / 32@200 / 38@300 / 49@600

Comments: NO TREATMENTS AT THIS TIME.

## LAST OR CURRENT BHA

BHA No: 3	Bit No: 3	MD In: 7012 ft		
Purpose:	MD Out: 11,460 ft			
Component	OD	ID	Jts	Length
HWDP	4.500	2.875	4	121.78
DRILLING JAR	6.375	2.750	1	32.37
HWDP	4.500	2.875	8	242.67
SPIRAL DRILL COLLAR	7.930	2.750	12	349.91
MWD TOOL	6.500	3.250	1	4.97
NEAR BIT STABILIZER	6.500	2.250	1	5.71
DRILL COLLAR	6.250	2.375	1	28.80
NEAR BIT STABILIZER	6.500	2.250	1	6.63
VERTICAL DRILLING TOOL	6.500	1.720	1	32.17
PDC BIT	8.750		1	1.00

Total Length: 826.01 ft Wt below Jars:

## MUD PRODUCTS

Product	Units	Qty Used
AIR COMP RENT	EACH	1.00
DRIVE-BY ENGINEERING	EACH	1.00
DUO-VIS	BG,25 LB	2.00
PECAN NUT PLUG CSE	BG,50 LB	23.00
PREMIX PIT	EACH	1.00
SODA ASH	BG,50 LB	9.00
Zinc Oxide	Bag, 50 lb	3.00

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

Date: 04/06/2012  
Report No: 16

## OPERATIONS

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	31PRRC	CSG	RIGUP	P	CLEAN & CLEAR FLOOR, GET READY TO RUN 5.5 PRODUCTION CASING  PJSM WITH B & L CASING  RIG UP CASING CREW / TORQUE TURN
1:00	3:00	2.00	31PRRC	SRFEQ	REPR	PT	TROUBLESHOOT TORQUE TURN / ANOTHER TORQUE TURN SYSTEM IN ROUTE FROM B&L CASING SHOP  TORQUE TURN NOT READING CORRECTLY / CHANGE OUT TORQUE TURN SYSTEM
3:00	6:00	3.00	31PRRC	CSG	RUNCSG	P	RUN 5.5" PRODUCTION CASING PER PROG: TO 1869' VISUALLY INSPECT FLOAT EQUIPMENT FOR DAMAGE AND PROPER OPERATION; <ul style="list-style-type: none"> <li>• FLOAT SHOE – MODEL 303A-THREAD LOCKED TORQUE TO 4260, SET @ 11,455'</li> <li>• 2 JOINTS 5½" 17# L80 LTC CASING-THREAD LOCKED TORQUE TO 4260</li> <li>• FLOAT COLLAR – MODEL 402A-THREAD LOCKED TORQUE TO 4260, SET @ 11,367'</li> <li>• 5½" 17# L80 LTC CASING TO 7000 FT, TORQUE TO 3410</li> <li>• INCLUDE A FLAG JOINT TO BE LOCATED AT ~8500', TORQUE TO 3410, SET @ 8,560'</li> <li>• 5½" 17# L80 LTC RYT WRAPPED CASING FROM 7000 FT TO 5000 FT, TORQUE TO 3410</li> <li>• 5½" 17# L80 LTC CASING FROM 5000 FT TO SURFACE, TORQUE TO 3410</li> </ul> INSTALL WEATHERFORD SINGLE BOW SPRING CENTRALIZERS (PART NUMBER: B1103651) AS FOLLOWS: <ul style="list-style-type: none"> <li>• 1 BOW SPRING 10' ABOVE SHOE</li> <li>• 1 BOW SPRING ON COUPLING ~40' ABOVE SHOE</li> <li>• 1 BOW SPRING ABOVE FLOAT COLLAR (~90' ABOVE SHOE)</li> <li>• 1 BOW SPRING EVERY 2 JOINTS UP TO 7000 FT</li> <li>• 1 BOW SPRING EVERY 3 JOINTS FROM 7000 FT TO 5000 FT (RYT WRAP CENTRALIZERS PART NUMBER: 823355)</li> <li>• 1 RIGID CENTRALIZER (PART NUMBER 572288) AT THE FIRST COUPLING BELOW THE WELLHEAD</li> <li>• ESTIMATED NUMBER OF BOW SPRING CENTRALIZERS NEEDED: 50</li> <li>• RYT WRAP CENTRALIZERS: 17</li> </ul> FILL UP ON THE FLY AND EVERY 10 JOINTS COMPLETE  SAFETY BREAK: TAILING IN CASING
6:00	10:00	4.00	31PRRC	CSG	RUNCSG	P	RUN 5.5" PRODUCTION CASING PER PROG: F/ 1869' FT. - T/ 4170' FT. VISUALLY INSPECT FLOAT EQUIPMENT FOR DAMAGE AND PROPER OPERATION; <ul style="list-style-type: none"> <li>• FLOAT SHOE – MODEL 303A-THREAD LOCKED TORQUE TO 4260, SET @ 11,455'</li> <li>• 2 JOINTS 5½" 17# L80 LTC CASING-THREAD LOCKED TORQUE TO 4260</li> <li>• FLOAT COLLAR – MODEL 402A-THREAD LOCKED TORQUE TO 4260, SET @ 11,367'</li> <li>• 5½" 17# L80 LTC CASING TO 7000 FT, TORQUE TO 3410</li> <li>• INCLUDE A FLAG JOINT TO BE LOCATED AT ~8500', TORQUE TO 3410, SET @ 8,560'</li> <li>• 5½" 17# L80 LTC RYT WRAPPED CASING FROM 7000 FT TO 5000 FT, TORQUE TO 3410</li> <li>• 5½" 17# L80 LTC CASING FROM 5000 FT TO SURFACE, TORQUE TO 3410</li> </ul> INSTALL WEATHERFORD SINGLE BOW SPRING CENTRALIZERS (PART NUMBER: B1103651) AS FOLLOWS: <ul style="list-style-type: none"> <li>• 1 BOW SPRING 10' ABOVE SHOE</li> <li>• 1 BOW SPRING ON COUPLING ~40' ABOVE SHOE</li> <li>• 1 BOW SPRING ABOVE FLOAT COLLAR (~90' ABOVE SHOE)</li> <li>• 1 BOW SPRING EVERY 2 JOINTS UP TO 7000 FT</li> <li>• 1 BOW SPRING EVERY 3 JOINTS FROM 7000 FT TO 5000 FT (RYT WRAP CENTRALIZERS PART NUMBER: 823355)</li> <li>• 1 RIGID CENTRALIZER (PART NUMBER 572288) AT THE FIRST COUPLING BELOW THE WELLHEAD</li> <li>• ESTIMATED NUMBER OF BOW SPRING CENTRALIZERS NEEDED: 50</li> <li>• RYT WRAP CENTRALIZERS: 17</li> </ul>

## DAILY OPERATIONS PARTNER REPORT

Event: DEV DRILLING  
 Prim. Reason: ORIG DRILL VERT

UNIVERSITY CASEY 8  
 USA

Date: 04/06/2012  
 Report No: 16

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
10:00	12:30	2.50	31PRRC	SRFEQ	REPR	PT	RAN CASING TO 4170' FT. AND CHANGE OUT POWER TONGS. SEALS WENT OUT IN BOTH SETS. POWER UNIT ALSO WENT DOWN. WAIT FOR NEW SET AND POWER UNIT TO COME FROM ODESSA YARD.  NOTE: EVERYTHING B & L CASING HAS HAD OUT HERE HAS BEEN REPLACED DUE TO BREAKING DOWN.  SAFETY BREAK: CHANGING OUT EQUIPMENT
12:30	16:30	4.00	31PRRC	CSG	RUNCSG	P	CONTINUE RUNNING 5.5" CASING F/ 4170' FT. - T/ 6630' FT.  NOTE: B&L CASING HAND BROKE SKIN ON END OF FINGER NEXT TO FINGERNAIL ON RIGHT HAND RING FINGER REQUIRING FIRST AID WITH BAND AID.  SAFETY BREAK: PINCH POINTS
16:30	23:00	6.50	31PRRC	CSG	RUNCSG	P	CONTINUE RUNNING 5.5" CASING F/ 6630 FT. - T/ 11455 FT.  SAFETY BREAK: ROLLING CASING
23:00	0:00	1.00	31PRRC	CIRC	CNDHOL	P	CIRCULATE TWO BOTTOMS UP / RECIPROCATATE PIPE  RIG DOWN CASING CREW & RIG UP CEMENTERS  SAFETY BREAK: USING TAG LINES
Total Time		24.00					

Safety Incident? Y Days since Last RI: 92.00 Weather Comments:

Environ Incident? N Days since Last LTA: 455.00

## Incident Comments:

1 FIRST AID / B&L CASING CREW FLOORHAND HAD RIGHT HAND RING FINGER TIP NEXT TO FINGER NAIL BROKE THE SKIN BEING PINCHED WHILE CHANGING OUT CASING ELEVATORS.

## Other Remarks:

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
 TRAILER TEL NUMBER: (713) 948-3590  
 FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

FIRST AID: 1

SAFETY TOPIC OF THE DAY: RUNNING CASING  
 DAYS WORKED WITH NO LTA: 455  
 DAYS SINCE LAST RI: 92  
 NUMBER SAFETY MEETINGS: 12  
 NUMBER NEAR MISSES: 0  
 STOP CARDS: 12  
 DAILY JSA'S REVIEWED: 10  
 PERMITS TO WORK:0  
 LO/TO: 2  
 PRE-SPUD INSPECTION: X  
 POWER-LINE CHECK LIST: X  
 SWA'S: X

BEST STOP CARD OF THE DAY : THIRD PARTY DRIVER BACKING UP WITHOUT A SPOTTER, STOPPED AND INFORMED HIM OF THE DANGER INVOLVED. HE WAS INSTRUCTED TO ALWAYS USE THE HELP OF A SPOTTER. HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT.

TOTAL PT HRS: 30

## DAILY OPERATIONS PARTNER REPORT

Date: 04/07/2012  
Report No: 17

CASING/WELL CONTROL	HOOK LOAD & TORQUE	HYDRAULICS	MUD GAS	Avg	Max
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Total on Site:	15	7,440.0		7,439.42	83.5	0.0	83.5	0.05	-0.05
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[illegible]

Bit No	Rot Hrs	Cum Rot Hrs	Prog	Cum Prog	ROP	Cum ROP	WOB min/max	RPM min/max	TFA	P Drop Bit	Noz Vel	HHPSI
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MUD DATA -		LAST OR CURRENT BHA				
Engineer:	MBT:					
Sample From:	pH:					
Mud Type:	Pm / Pom:					
Time / MD: /	Pf / Mf: /					
Density @ Temp: /	Chlorides:					
Rheology Temp:	Ca+ / K+: /					
Viscosity:	CaCl2:					
PV / YP: /	Clom:					
Gels 10s/10m/30m: / /	Lime:					
API WL:	ES:					
HTHP WL:	ECD:					
Cake API / HTHP: /	n / K: /					
Solids / Sol Corr: /	Carbonate:					
Oil / Water: /	Bicarbonate:					
Sand:	Form Loss: 0.0 / 120.0					
Water Added:	Fluid Disch: /					
Oil Added:						
LGS: /						
VG Meter:						
Comments:						

[illegible]

OXY USA INC  
**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 04/07/2012  
**Report No:** 17

**OPERATIONS**

From	To	Hrs	Op Phase	Op Code	Op Sub	Op Type	Operation Details
0:00	1:00	1.00	31PRRC	CIRC	CNDHOL	P	CONTINUE TO CIRCULATE TWO BOTTOMS UP / RECIPROCATATE PIPE  RIG DOWN CASING CREW & RIG UP CEMENTERS  PJSM WITH HALLIBURTON, RIG CREW, DSM
1:00	1:30	0.50	31PRRC	CMT	RIGUP	P	RIG UP CEMENT HEAD
1:30	3:30	2.00	31PRRC	CMT	PRIM	P	CEMENT 5.5" PROD CASING PER PROG: TEST LINES 250 PSI LOW / 3000 PSI HIGH FLUID 1: 20 BBL FRESH WATER FLUID DENSITY: 8.33 LBM/GAL, FLUID VOLUME: 20 BBL FLUID 2: 20 BBL GEL SPACER FLUID DENSITY: 8.33 LBM/GAL 2.5 LBM/BBL WG-19 (GELLING AGENT) FLUID VOLUME: 20 BBL ? DROP THE BOTTOM WIPER PLUG AND VISUALLY CHECK THE INDICATOR TO ENSURE THAT THE PLUG HAS LEFT. ? PUMP THE CEMENT JOB AT 8 BPM AS FOLLOWS (ENSURE THAT HALLIBURTON RECORDS ALL PRESSURES AND RATES): • WITH CEMENTING UNIT, PUMP: FLUID 3: LEAD CEMENT WITH 480 SKS INTERFILL H FLUID WEIGHT 11.70 LBM/GAL 0.25 LBM/SK KOL-SEAL (LIGHT WEIGHT ADDITIVE) SLURRY YIELD: 2.69 FT3/SK TOTAL MIXING FLUID: 15.81 GAL/SK TOP OF FLUID: 4000 FT, CALCULATED FILL: 3000 FT, VOLUME: 222.70 BBL CALCULATED SACKS: 476.32 SKS, PROPOSED SACKS: 480 SKS ESTIMATED SLURRY PROPERTIES: THICKENING TIME: 03:50 COMPRESSIVE STRENGTHS @ 165 °F 24:00 189 PSI, 48:00 270 PSI, 72:00 370 PSI FLUID 4: TAIL-IN CEMENT WITH 810 SKS SUPER H CEMENT FLUID WEIGHT 13 LBM/GAL 0.5 % HALAD(R)-344 (LOW FLUID LOSS CONTROL) SLURRY YIELD: 1.76 FT3/SK 0.4 % CFR-3 (DISPERSANT) TOTAL MIXING FLUID: 9.15 GAL/SK 3 LBM/SK SALT (SALT) TOP OF FLUID: 7000 FT 2 LBM/SK KOL-SEAL (LOST CIRCULATION ADDITIVE) CALCULATED FILL: 4350 FT VOLUME: 246.75 BBL, CALCULATED SACKS: 802.67 SKS, PROPOSED SACKS: 810 SKS ESTIMATED SLURRY PROPERTIES: THICKENING TIME: 03:15 COMPRESSIVE STRENGTHS @ 166 °F 05:01 500 PSI, 12:00 1700 PSI, 24:00 2028 PSI DISPLACEMENT 262 BBLS BRINE BUMP PLUG @ 03:14, FINAL LIFT 3200 PSI / 3820 PSI FLOWBACK 3 BBLS, FLOATS HELD FULL CIRCULATION THRU CEMENT JOB
3:30	4:00	0.50	31PRRC	CMT	RIGUP	P	RIG DOWN CEMENT EQUIPMENT
4:00	8:30	4.50	31PRRC	BOP	RDBOP	P	PJSM WITH MAN WELDING, FMC, RIG CREW, DSM  HANG BOP, SET CSG SLIPS & MAKE ROUGH CUT ON 5.5" CASING, NIPPLE DOWN BOP  NIPPLE UP TUBING HEAD TEST TO 4000PSI TEST GOOD  RELEASE RIG @ 8:30 AM

Total Time 8.50

**Safety Incident?** N **Days since Last Ri:** 93.00

**Environ Incident?** N **Days since Last LTA:** 456.00

**Incident Comments:**

No incidents reported last 24 hours.

**Weather Comments:**

**DAILY OPERATIONS PARTNER REPORT**

**Event:** DEV DRILLING  
**Prim. Reason:** ORIG DRILL VERT

UNIVERSITY CASEY 8  
USA

**Date:** 04/07/2012  
**Report No:** 17

**Other Remarks:**

FROM THE INTERSECTION OF HIGHWAY 385 AND HIGHWAY 176 IN ANDREWS, TEXAS, DRIVE 2.1 MILES EAST ON HIGHWAY 176 TO INTERSECTION OF HIGHWAY 176 AND HIGHWAY 115. TURN LEFT(NORTHEAST) ON HIGHWAY 115. FROM INTERSECTION OF HIGHWAY 115 AND HIGHWAY 176, DRIVE 6.75 MILES NORTHEAST ON HIGHWAY 115. AT INTERSECTION OF HIGHWAY 115 AND FM 1788, TURN RIGHT (SOUTH) ONTO FM 1788.DRIVE 1.75 MILES AND TURN LEFT (EAST) ONTO LEASE ROAD. DRIVE 1.85 MILES MILES ON LEASE ROAD. TURN LEFT (NORTH) ONTO LEASE ROAD. DRIVE 0.2 MILES AND ARRIVE AT UNIVERSITY CASEY #8.  
TRAILER TEL NUMBER: (713) 948-3590  
FLIGHT FOR LIFE DIRECTIONS: LATITUDE 32°22'14.24"N, LONGITUDE 102°23'49.82"W, NAD 27

SAFETY TOPIC OF THE DAY: PREPARE FOR RIG MOVE  
DAYS WORKED WITH NO LTA: 456  
DAYS SINCE LAST RI: 93  
NUMBER SAFETY MEETINGS: 6  
NUMBER NEAR MISSES: 0  
STOP CARDS: 12  
DAILY JSA'S REVIEWED: 8  
PERMITS TO WORK: 1  
LO/TO: 3  
PRE-SPUD INSPECTION: X  
POWER-LINE CHECK LIST: X  
SWA'S: X

BEST STOP CARD OF THE DAY : THIRD PARTY HAND NOT PAYING ATTENTION TO BUFFER ZONE DURING RIG MOVE, STOPPED AND DISCUSSED THE HAZARDS. HE COMPLIED AND JOB CONTINUED WITHOUT INCIDENT.

TOTAL PT HRS: 30



<b>Event</b>		
<b>Completed</b>		
<b>CASEY-8</b>	<b>Dev Completion - Cased</b>	
<b>Hole</b>		
<b>04/09/2012</b>		
Daily Summary		4-9-12 MIRU Schlumberger wireline. RIH and log CNL, CCL, GR, CBL. RDMO wire line. SIW & SDFN PBTD=11280' Install 10K frac stack. Daily Cost=\$35517 Cum Cost=\$35517
<b>Total Cost for 04/09/2012</b>	<b>\$0.00</b>	
<b>04/10/2012</b>		
Daily Summary		4-10-12 Psi test csg & frac stack to 5000 psi. Psi test good. Daily Cost=\$1700 Cum Cost=\$37217
<b>Total Cost for 04/10/2012</b>	<b>\$0.00</b>	
<b>04/11/2012</b>		
Job Cost Detail Report		
Wireline - Bridge Plug - Composite - Set Wireline		RIH w/ 5 ½ " composite plug.
Frac - Sand		Frac Strawn 12:37-13:47 RU Halliburton frac Strawn zone. Break down at 3407 @ 5.2 bpm. Pump 4006 gal 15% Ferchek acid. Pump 10527 gal treated water pre-pad. Pump 12522 gal Hybor G pre-pad. 76149 gal Hybor G Pad. 74410 gal Hybor G w/ 81720# 20/40 Versa Prop, 997 gal 15% Ferchek acid, 9414 gal treated water flush. Max rate=71 bpm, Avg rate=69 bpm, Max psi=5548 psi, Avg psi=4645 psi, ISIP=3325 psi. Total load=188020 gal.
Wireline - Perforate Casing/Liner		Perf Strawn 11:30-12:27 RU Halliburton Wireline. Set @ 10930'. Perf Strawn w/ 3 1/8" csg gun perf. using 3319-331T charges 19 gm wt. 0.42" EHD, 42" penetration, 6 SPF, 60 degree phasing. Perforate Strawn @ 10894, 10854, 10807, 10758, 10718, 10664. Total shots=45 & fired=45. Net feet =232'. Reference log Halliburton CNL/GR/CCL dated 4-9-12
Wireline - Perforate Casing/Liner		Perf Lower Wolfcamp 14:00-14:59 RU Halliburton Wireline. Set @ 10500'. Perf Lower Wolfcamp w/ 3 1/8" csg gun perf. using 3319-331T charges 19 gm wt. 0.42" EHD, 42" penetration, 6 SPF, 60 degree phasing. Perforate Lower Wolfcamp @ 10466, 10427, 10385, 10344, 10296, 10252. Total shots=40 & fired=40. Net feet =216'. Reference log Halliburton CNL/GR/CCL dated 4-9-12.
Wireline - Bridge Plug - Composite - Set Wireline		RIH w/ 5 ½ " composite plug.
Frac - Sand		Frac Lower Wolfcamp 15:32-16:22 RU Halliburton frac Lower Wolfcamp zone. Break down at 4037 @ 6.0 bpm. Pump 1494 gal 15% Ferchek acid. Pump 10771 gal treated water pre-pad. Pump 2707 gal Hybor G pre-pad. Pump 29242 gal Hybor G Pad, 60032 gal Hybor G w/ 141123# 20/40 CRC prop, 1005 gal 15% Ferchek acid, 9044 gal treated water flush. Max rate=72 bpm, Avg rate=68 bpm, Max psi=5041 psi, Avg psi=3934 psi, ISIP=2473 psi. Total load=114305 gal.
Wireline - Bridge Plug - Composite - Set Wireline		RU Halliburton Wireline. RIH w/ 5 ½ " composite plug.
Wireline - Perforate Casing/Liner		Perf Middle Wolfcamp 16:30-17:20 Set @ 10130'. Perf Middle Wolfcamp w/ 3 1/8" csg gun perf. using 3319-331T charges 19 gm wt. 0.42" EHD, 42" penetration, 6 SPF, 60 degree phasing. Perforate Middle Wolfcamp @ 10088, 10044, 9995, 9945, 9894, 9854. Total shots=42 & fired=42. Net feet =236'. Reference log Halliburton CNL/GR/CCL dated 4-9-12.
Frac - Sand		Frac Middle Wolfcamp 17:32-18:14 RU Halliburton frac Middle Wolfcamp zone. Breakdown at 3004 psi

		@ 6.2 bpm. Pump 1497 gal 15% Ferchek acid. Pump 10655 gal treated water pre-pad. Pump 2681 gal Hybor G pre-pad. Pump 32033 gal Hybor G Pad, 59335 gal Hybor G w/ 140990# 20/40 CRC prop, Pump 1008 gal 15% Ferchek acid. Pump 8537 gal treated water flush. Max rate=71 bpm, Avg rate=70 bpm, Max psi=4609 psi, Avg psi=3984 psi, ISIP=2569 psi. Total load=115746 gal.
Wireline - Perforate Casing/Liner		Perf Atoka 08:20-09:16 RU Halliburton Wireline. No Plug Set. 3 1/8" csg gun perf. Using 3319-331T charges 19 gm wt. 0.42", 42" penetration, 6 SPF, 60 degree phsing. Perforate Atoka @ 11204, 11139, 11084, 11021. Total shots=47 & fired=47. Net feet =183'. Reference log Halliburton CNL/GR/CCL dated 4-9-12.
Wireline - Perforate Casing/Liner		Perf Upper Wolfcamp 17:57-18:50
Frac - Sand		Frac Atoka 10:00-11:16 RU Halliburton frac Atoka zone. Break down at 6399 psi @ 4.3 bpm. Pump 4010 gal 15% Ferchek acid. Pump 10660 gal treated water pre-pad. Pump 15382 gal Hybor G pre-pad. Pump 70326 gal Hybor G Pad, 74231 gal Hybor G w/ 79270# 20/40 Versa Prop, 1018 gal 15% Ferchek acid, 9829 gal treated water flush. Max rate= 70 bpm, Avg rate=70 bpm, Max psi=6402 psi, Avg psi=5024 psi, ISIP=3359 psi. Total load=185456 gal.
<b>Total Cost for 04/11/2012</b>	<b>\$45,764.35</b>	
<b>04/12/2012</b>		
Daily Summary		4/12/12 Casey 8 WOC: CHRIS EISENBERG SouthCap, OSH0183T, 0103, 1145637 Daily Cost= \$ 713592.08 Cum Cost= \$ 737121.04 Perf Dean Zone 08:00-08:59 RU Halliburton Wireline. RIH w/ 5 1/2 " composite plug. Set @ 9600'. Perf Dean w/ 3 1/8" csg gun perf. using 3319-331T charges 19 gm wt. 0.42" EHD, 42" penetration, 6 SPF, 60 degree phasing. Perforate Dean @ 9564, 9525, 9483, 9398, 9332, 9289. Total shots=48 & fired=48. Net feet =277'. Reference log Halliburton CNL/GR/CCL dated 4-9-12 Frac Dean 09:12-10:03 RU Halliburton frac Dean zone. Breakdown at 1877 psi @ 5.2 bpm. Pump 2012 gal 15% Ferchek acid. Pump 5685 gal treated water pre-pad. Pump 4997 Hybor G pre-pad. Pump 39579 gal Hybor G Pad, 73474 gal Hybor G w/ 177319# 20/40 Ottawa prop. Pump 1002 gal 15% Ferchek acid. Pump 8109 gal treated water flush. Max rate=72 bpm, Avg rate=71 bpm, Max psi=5153 psi, Avg psi=3009 psi, ISIP=1521 psi. Total load=134857 gal Perf Upper Sprayberry 10:13-11:00 RU Halliburton Wireline. RIH w/ 5 1/2 " composite plug. Set @ 9160'. Perf Upper Sprayberry w/ 3 1/8" csg gun perf. using 3319-331T charges 19 gm wt. 0.42" EHD, 42" penetration, 6 SPF, 60 degree phasing. Perforate Upper Sprayberry @ 9121, 9074, 9032, 8979, 8934, 8890, 8845. Total shots=50 & fired=50. Net feet =278'. Reference log Halliburton CNL/GR/CCL dated 4-9-12 Frac Upper Sprayberry 11:06-11:57 RU Halliburton frac Upper Sprayberry zone. Breakdown at 1304 psi @ 5.7 bpm. Pump 1978 gal 15% Ferchek acid. Pump 6050 gal treated water pre-pad. Pump 2785 Hybor G pre-pad. Pump 40375 gal Hybor G Pad, 71772 gal Hybor G w/ 186360# 20/40 Ottawa prop, Pump 8558 gal treated water flush. Max rate=71 bpm, Avg rate=70 bpm, Max psi=2935 psi, Avg psi=2396 psi, ISIP=1303 psi. Total load=131518 gal Field Cost Halliburton FRAC=650211.76 Halliburton Wireline= 38714.56 Tools=18665.76 Log=18856.96
Job Cost Detail Report		
Wireline - Perforate Casing/Liner		Perf Dean Zone 08:00-08:59 RU Halliburton Wireline. RIH w/ 5 1/2 " composite plug. Set @ 9600'. Perf Dean w/ 3 1/8" csg gun perf. using 3319-331T charges 19 gm wt. 0.42" EHD, 42" penetration, 6 SPF, 60 degree phasing. Perforate Dean @ 9564, 9525, 9483, 9398, 9332, 9289. Total shots=48 & fired=48. Net feet =277'. Reference log Halliburton CNL/GR/CCL dated 4-9-12
Frac - Sand		Frac Dean 09:12-10:03 RU Halliburton frac Dean zone. Breakdown at 1877 psi @ 5.2 bpm.

		Pump 2012 gal 15% Ferchek acid. Pump 5685 gal treated water pre-pad. Pump 4997 Hybor G pre-pad. Pump 39579 gal Hybor G Pad, 73474 gal Hybor G w/ 177319# 20/40 Ottawa prop. Pump 1002 gal 15% Ferchek acid. Pump 8109 gal treated water flush. Max rate=72 bpm, Avg rate=71 bpm, Max psi=5153 psi, Avg psi=3009 psi, ISIP=1521 psi. Total load=134857 gal
Wireline - Bridge Plug - Composite - Set Wireline		RIH w/ 5 1/2 " composite plug.
Wireline - Perforate Casing/Liner		Perf Upper Sprayberry 10:13-11:00 RU Halliburton Wireline. Set @ 9160'. Perf Upper Sprayberry w/ 3 1/8" csg gun perf. using 3319-331T charges 19 gm wt. 0.42" EHD, 42" penetration, 6 SPF, 60 degree phasing. Perforate Upper Sprayberry @ 9121, 9074, 9032, 8979, 8934, 8890, 8845. Total shots=50 & fired=50. Net feet =278'. Reference log Halliburton CNL/GR/CCL dated 4-9-12
Frac - Sand		Frac Upper Sprayberry 11:06-11:57 RU Halliburton frac Upper Sprayberry zone. Breakdown at 1304 psi @ 5.7 bpm. Pump 1978 gal 15% Ferchek acid. Pump 6050 gal treated water pre-pad. Pump 2785 Hybor G pre-pad. Pump 40375 gal Hybor G Pad, 71772 gal Hybor G w/ 186360# 20/40 Ottawa prop, Pump 8558 gal treated water flush. Max rate=71 bpm, Avg rate=70 bpm, Max psi=2935 psi, Avg psi=2396 psi, ISIP=1303 psi. Total load=131518 gal
<b>Total Cost for 04/12/2012</b>	<b>\$741,613.88</b>	
<b>04/24/2012</b>		
Daily Summary		4-24-12 Casey 8 Nabors 1271 WOC: Randy Wake We had to fill the rat hole on location. MIRU the pulling unit. Unload tubing on the racks and tally. 320 psi Csg. Bleed well down. Pumped 50 bbls 10# Brine Csg. N/D Frac stack. N/U 7 1/16 spool. N/U 7 1/16 hydraulic bop. RIH w/ 4 3/4 rock bit, 2 7/8 bit sub, 6- 3 1/2 drill collars, 50 - 2 7/8 2 7/8, I-80 Tbg. SION NDP: RIH w/ bit and collars, drill plugs Daily cost: \$ 95,914.00 Cum cost: \$ 822,363.04
Rig Crew Travel Time		DRIVE CREW TO LOCATION
Safety Meeting		TAILGATE SAFETY MEETING AMD RIG INSPECTION
Pulling Unit - Rig Up		MIRU PULLING UNIT
Casing - Check Pressure		320 PSI ON CASING
Well Control - Bleed Well Down		BLEED WELL DOWN
Well Control - Kill Well - Brine		PUMPED 50 BBLS 10# BRINE CSG
Frac Valve - Nipple Down		N/D FRAC STACK
BOPE Hydraulic - Nipple Up		N/U 7 1/16 SPOOL N/U 7 1/16 HYDRAULIC BOP
Bit - Run		RIH w/ 4 3/4 rock bit, 2 7/8 bit sub, 6- 3 1/2 drill collars, 50 - 2 7/8 2 7/8, I-80 Tbg
Shut-in Overnight		SION
Rig Crew Travel Time		DRIVE CREW HOME
Job Cost Detail Report		
<b>Total Cost for 04/24/2012</b>	<b>\$114,474.96</b>	
<b>04/25/2012</b>		
Daily Summary		4-25-12 Casey 8 Nabors 1271 WOC: Randy Wake 200 psi Csg, 320 Tbg. Bleed well down. Pumped 20 bbls 10# brine Csg, 20 bbls 10# brine Tbg. RIH w/ 241 jts of 2 7/8 L-80 Tbg. Tag plug at 8720'. POOH with Tbg to above the perfs at 8720'. SION NDP: drill plugs Daily cost: \$ 13,050.00 Cum cost: \$ 835,413.04

Rig Crew Travel Time		DRIVE CREW TO LOCATION
Safety Meeting		TAILGATE SAFETY MEETING
Casing - Check Pressure		200 PSI ON CASING
Tubing - Check Pressure		320 PSI TUBING
Well Control - Bleed Well Down		BLEED WELL DOWN
Well Control - Kill Well - Brine		PUMPED 20 BBLS 10# BRINE CSG. 20 BBLS 10# BRINE TBG
Bit - Run		RIH W/ 241 JTS OF 2 7/8 L-80 TBG
Tag Fill		TAG PLUG AT 8720'
Bit - Pull		POOH WITH TUBING TO ABOVE THE PERFS AT 8720'
Shut-in Overnight		SION
Rig Crew Travel Time		DRIVE CREW HOME
Job Cost Detail Report		
<b>Total Cost for 04/25/2012</b>	<b>\$12,704.00</b>	
<b>04/26/2012</b>		
Daily Summary		4-26-12 Casey 8 Nabors 1271 WOC: Randy Wake 200 psi Csg, 220 psi Tbg. Broke circulation. RIH w/ Tbg and tag plug at 9150'. Rigged up power swivel. Drilled plugs at 9150', 9600', 10130'. Circulate well clean for 1 ½ hours. Rig down the power swivel. POOH w/ Tbg above the perfs at 8749'. SION NDP: continue drilling plugs Daily cost: \$ 22,500.00 Cum cost: \$ 857,913.04
Rig Crew Travel Time		DRIVE CREW TO LOCATION
Safety Meeting		TAILGATE SAFETY MEETING
Casing - Check Pressure		200 PSI CSG
Tubing - Check Pressure		220 PSI TBG
Circulate		BROKE CIRCULATION
Bit - Run		RIH W/ TBG AND TAG PLUG AT 9150'
Power Swivel - Rig Up		RIGGED UP POWER SWIVEL
Drill - Bridge Plug		DRILLED PLUGS AT 9150', 9600', 10130'
Circulate		CIRCULATE WELL CLEAN FOR 1.5 HOURS
Power Swivel - Rig Down		RIG DOWN THE POWER SWIVEL
Bit - Pull		POOH W/ TBG ABOVE THE PERFS AT 8749'
Shut-in Overnight		SION
Rig Crew Travel Time		DRIVE CREW HOME
Job Cost Detail Report		
<b>Total Cost for 04/26/2012</b>	<b>\$23,720.00</b>	
<b>04/27/2012</b>		
Power Swivel - Rig Up		RIG UP SWIVEL, AIR DEVELOPED BAD OIL LEAK. RIG DOWN SWIVEL
Bit - Pull		POH TO TOP PERF
Shut-in Overnight		SWIFN
Rig Crew Travel Time		DRIVE CREW HOME

Safety Meeting		ONSITE SAFETY MEETING AND JSA
Circulate		BREAK CIRCULATION
Bit - Run		RIH WITH BIT, COLLARS AND TUBING TO 4TH P/U
Rig Crew Travel Time		DRIVE TO LOCATION
Safety Meeting		SAFETY MEETING
Rig Crew Travel Time		P/U CREW. DRIVE TO SAFETY MEETING
Job Cost Detail Report		
Daily Summary		4-27-12 Casey 8 Nabors 1271 WOC: Steven Hampton Tbg-200, csg-200, bleed to pit, pumped 110 bbls to kill, broke circulation, rih to 4th plug, r/u swivel, air unit developed bad oil leak on fluid pump motor, rig down swivel, poh to top perf, swifn. Ndp: Finish c/o to pbtd, poh with bit, collars ans tubing. Daily cost: \$ 21,150 Cum cost: \$ 879,063
<b>Total Cost for 04/27/2012</b>	<b>\$20,601.00</b>	
<b>04/30/2012</b>		
Shut-in Overnight		SECURED WELL AND SHUT DOWN
Rig Crew Travel Time		CREW DROVE TO YARD
Tubing - Pull		Pulled tbg above the perms.
Wellbore Cleanout		Replaced hose, and drilled up 4th plug in 30 min. ran down, and tagged 5th plug at 10,930. Drilled up 5th plug in 1 hour. Circulated hole clean.
Wellbore Cleanout - Other		Started trying to break circulation. Took 30 min to break circulation. Ran in the hole, and tagged 4th plug at 10,500.
Waiting on Materials		Swivel busted a hydraulic hose, and waited 1.5 hours for new hose to arrive on location.
Well Control - Bleed Well Down		well had 740 on the casing, and 760 on the tbg. Bled well down to pit. Bled down to 400 psi.
Safety Meeting		ONSITE SAFETY MEETING AND JSA
Rig Crew Travel Time		DRIVE TO LOCATION
Job Cost Detail Report		
<b>Total Cost for 04/30/2012</b>	<b>\$23,120.00</b>	
<b>05/01/2012</b>		
Shut-in Overnight		SHUT IN WELL, SECURE LOCATION
Rig Crew Travel Time		CREW TRAVEL HOME
Bit - Pull		PULL OUT OF HOLE WITH 90 JTS 2 7/8" L80 TUBING
Power Swivel - Rig Down		RIG DOWN SWIVEL
Well Control - Kill Well - Brine		PUMP 50 BBLS BRINE DOWN TUBING
Circulate		CIRCULATE HOLE CLEAN WITH AIR
Wellbore Cleanout		RUN IN HOLE WITH BIT, TAG AT 11220' WITH 358 JTS, RIG UP SWIVEL, CLEANOUT WELL TO FLOAT COLLAR AT 11366'
Circulate		RIG UP FOAM AIR UNIT AND CIRCULATE HOLE WITH AIR
Tubing - Check Pressure		TUBING 560
Safety Meeting		SAFETY MEETING. RIG INSPECTION
Casing - Check Pressure		CASING 900. BLEED OFF CASING TO 400 PSI

Rig Crew Travel Time		CREW TRAVEL TO LOCATION
Job Cost Detail Report		
Daily Summary		<p>5-1-12  Casey #8 Nabors 1271  Woc: LARRY WILLIAMS casing 500, tubing 560, bleed off tubing, bleed casing down to 400 psi, run in hole with 4 3/4" bit and 72 jts to 11220', rig up swivel, establish circulation with foam air unit, cleanout down to float collar at 11366', circulate hole for 4 hours, pump 50 bbls 10# brine to kill tubing, rig down swivel, pull out of hole with 43 stands to put bit above perms, shut in well overnite NDP--kill well, pull out of hole with bit, run production tubing cost 4-30-12 -- \$23,450 cumulative cost thru 4-30-12 -- \$902,514</p>
<b>Total Cost for 05/01/2012</b>	<b>\$24,807.00</b>	
<b>05/02/2012</b>		
Bit - Pull		PULL OUT OF HOLE WITH BIT, LAY DOWN 6 DRILL COLLARS
Break for Crew		LUNCH
Stripper Head - Nipple Up/Nipple Down		NIPPLE DOWN STRIPPER HEAD
Rig Crew Travel Time		CREW TRAVEL TO LOCATION
Safety Meeting		SAFAETY MEETING. RIG INSPECTION
Well Control - Kill Well - Fresh Water		CASING 600, TUBING 360, BLEED DOWN CASING TO PIT, PUMP 100 BBLs FRESH WATER DOWN CASING
Tubing - Run		MAKE UP BHA, JT 2 7/8" L80, 2 7/8" 12 SLOT SAND SCREEN, 2 7/8" MHDSN, 2 JTS 2 7/8" L80 TK-99, 6 JTS 2 7/8" L80, 2 7/8" X 5 1/2" WATSON TAC, 2 JTS 2 7/8" L80, 2 7/8" L80 4' SUB, 2 7/8" L80
Tubing Anchor - Set		SET TUBING ANCHOR WITH 20K TENSION
Shut-in Overnight		SHUT IN WELL, SECURE LOCATION
Rig Crew Travel Time		CREW TRAVEL HOME
Job Cost Detail Report		
Daily Summary		<p>5-2-12  Casey #8 Nabors 1271  Woc: LARRY WILLIAMS kill well with 100 bbls brine water, pull out of hole with 4 3/4" bit and lay down 6 - 3 1/2" drill collars, make up bha and run in hole with 2 7/8" L80 production tubing, 2 7/8" bull plug, 2 7/8" 12 slot sand screen-OSI, 2 7/8" MHDSN-Wilson, 2 jts 2 7/8" L80 TK-99, 6 jts 2 7/8" L80, 2 7/8" x 5 1/2" TAC-Watson, 2 jts 2 7/8" L80, 2 7/8" L80 4' marker sub and 2 7/8" L80 tubing, set tubing anchor with 20K tension, shut in well overnite NDP--nipple down bop, nipple up wellhead, run in hole with pump and rods cost 5-1-12 -- \$25,450 cumulative cost thru 5-1-12 -- \$927,964</p>
<b>Total Cost for 05/02/2012</b>	<b>\$49,136.00</b>	
<b>05/03/2012</b>		
Daily Summary		<p>5-3-12 Casey #8 Nabors 1271 Woc: LARRY WILLIAMS pump 10 bbls fresh water down tubing and 20 bbls down casing, nipple down hyd bop and 5K x 10K xover spool, nipplr up 10K B-1 adapter, prep rods to run in hole, Wilson brought out 1 5/8" sinker bars, wait on 1 1/2" sinker bars to be brought to location, pick up and run in hole with 2.5" x 1.5" x 24' Wilson pump with grooved plunger, 6 - 1.5" Wilson sinker bars, 285 - 3/4" Weatherford HD rods, shut in well overnite NDP--finish running in hole with pump and rods and hang well on cost 5-2-12 -- \$49,850 cumulative cost thru 5-2-12 -- \$977,814</p>
Rig Crew Travel Time		DRIVE CREW TO LOCATION
Safety Meeting		TAILGATE SAFETY MEETING
Casing - Check Pressure		CHECK PRESSURE ON TBG. AND CGS.

Well Control - Bleed Well Down		BLEED WELL TO PIT
Well Control - Kill Well - Fresh Water		pump 10 bbls fresh water down tubing and 20 bbls down casing
BOPE Hydraulic - Nipple Down		nipple down hyd bop and 5K x 10K xover spool
Wellhead - Nipple Up		nipple up 10K B-1 adapter
Waiting on Service Provider		Wilson brought out 1 5/8" sinker bars, wait on 1 1/2" sinker bars to be brought to location,
Pump/Rods - Run		pick up and run in hole with 2.5" x 1.5" x 24' Wilson pump with grooved plunger, 6 - 1.5" Wilson sinker bars, 285 - 3/4" Weatherford HD rods
Shut-in Overnight		SION
Rig Crew Travel Time		DRIVE CREW TO THE HOUSE
Job Cost Detail Report		
<b>Total Cost for 05/03/2012</b>	<b>\$11,330.00</b>	
<b>05/04/2012</b>		
Rig Crew Travel Time		DRIVE CREW TO LOCATION
Safety Meeting		TAILGATE SAFETY MEETING
Casing - Check Pressure		160 PSI ON CSG
Tubing - Check Pressure		0 PSI TBG
Well Control - Bleed Well Down		BLEED WELL DOWN
Pump/Rods - Run		RIH w/ 53- 3/4 new weatherford HD rods, 154- 7/8 new weatherford HD rods, 8' and 4' 7/8 new weatherford HD rod subs, 1 1/2 spray metal polish rod
Break for Crew		LUNCH
Tubing - Pressure Test		load well with 10 bbls fresh water. Test tubing to 500 psi, tested good
Pump - Longstroke		Longstroked the pump and had good pump action
Pumping Unit - Hang on Head		Hung on the head
Pump - Space Out		Space pump 35" off bottom
Pulling Unit - Rig Down		RIGGED DOWN THE PULLING UNIT
Rig Crew Travel Time		DRIVE CREW TO THE HOUSE
Job Cost Detail Report		
<b>Total Cost for 05/04/2012</b>	<b>\$12,962.00</b>	
<b>Total Cost for CASEY-8</b>	<b>\$1,080,233.19</b>	