



Daily Partner Report
UNIVERSITY ANDREWS 247

Report Date: 5/8/2013
Report #: 1
Actual Days: 1.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Conductor, 56.0ftKB	AFE Duration Total (days)	Total Job AFE Amount 1,125,011.51	Cumulative Cost 172,252.92
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Daily Ops Summary

Rig H&P, 348	Wellbore	Depth End (ftKB) 73.0	Depth Progress (ft) 17.00	Daily Cost Total 172,252.92
Weather	Hole Condition	Drilling Hours (hrs) 1.00	Average ROP (ft/hr) 17.0	Days From Spud (days)

Ops and Depth @ Morning Report

DRILL AHEAD @ 73'.

Last 24hr Summary

RD UA 236 W/ O DAYLIGHT F/ RIG MOVE TO UA 247.

SPUD WELL @ 0500.

24hr Forecast

TD SURFACE SECT, LDDS, RUN CSG, CMT SAME.

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	07:30	1.50	MIRU	MOVE	SFTY	P	56.0	56.0	PJSM W/ RODAN, RIG CREWS ON D-MOB/ RIG UP.
07:30	16:00	8.50	MIRU	MOVE	MOB	P	56.0	56.0	D-MOB FROM UA 236, LOWER SUB & DERRICK, MIRU ON UA 247 RIG UP DRLG EQUIP.
16:00	03:00	11.00	MIRU	MOVE	RURD	P	56.0	56.0	RIG UP DRLG RIG AND EQUIPMENT, N/U RISER.
03:00	04:00	1.00	MIRU	MOVE	SFTY	P	56.0	56.0	IADC INSPECTION AND SURFACE LINE TEST.
04:00	05:00	1.00	MIRU	MOVE	TRIP	P	56.0	56.0	M/U BHA TAG 56'.
05:00	06:00	1.00	SURFAC	DRILL	DRLG	P	56.0	73.0	SPUD 12.25" SURFACE SECTION DRILL F/ 56' - T/ 73'.
SPUD WELL @ 0500									

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
BAROID	MUD PERSONNEL	CONTRACTOR	3	6.00	18.00
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	2	2.00	4.00
BIG D EQUIPMENT CO	OTHER	CONTRACTOR	32	11.00	352.00
BIG D EQUIPMENT CO	OTHER	CONTRACTOR	4	7.00	28.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	12.00	12.00
CONOCOPHILLIPS CO	SAFETY PERSONNEL	CONTRACTOR	2	10.00	20.00
DXP	SAFETY PERSONNEL	CONTRACTOR	1	3.00	3.00
E.L.FARMERS	OTHER	CONTRACTOR	1	2.00	2.00
EL FARMER	FIRST DELIVERY	CONTRACTOR	2	4.00	8.00
FAS-LINE SALES & RENTAL	ROUSTABOUT CREW	CONTRACTOR	1	3.00	3.00
FAS-LINE SALES & RENTAL	ROUSTABOUT CREW	CONTRACTOR	12	11.00	132.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
H & P DRILLING	SAFETY PERSONNEL	CONTRACTOR	1	8.00	8.00
H&P	OTHER	CONTRACTOR	3	8.00	24.00
HARRIS RATHOLE SERVICE	OTHER	CONTRACTOR	5	10.00	50.00
HAYNES CONSULTING SERVICE	ONSITE SUPERVISOR	CONTRACTOR	1	12.00	12.00
HB RENTAL	PORTABLE TOILET HAND	CONTRACTOR	4	8.00	32.00
KELLY SERVICES	OTHER	CONTRACTOR	4	3.00	12.00
LTR	OTHER	CONTRACTOR	1	6.00	6.00
NABORS WELL SERVICES LTD	TRUCKER	CONTRACTOR	7	12.00	84.00
NOV	OTHER	CONTRACTOR	2	2.00	4.00
NOV	OTHER	CONTRACTOR	1	2.00	2.00
RIGNET	OTHER	CONTRACTOR	1	4.00	4.00
ROCK WATER	TRUCKER	CONTRACTOR	2	10.00	20.00
ROCKWATER	TRUCKER	CONTRACTOR	2	8.00	16.00
RODAN TRUCKING	TRUCKER	CONTRACTOR	15	10.00	150.00
SAFETY INTERNATIONAL	SAFETY PERSONNEL	CONTRACTOR	2	6.00	12.00
SIERRA ENGINEERING	SAFETY PERSONNEL	CONTRACTOR	10	12.50	125.00
WEATHERFORD	VENDOR	CONTRACTOR	1	0.50	0.50
WEST CO	OTHER	CONTRACTOR	4	8.00	32.00



Daily Partner Report
UNIVERSITY ANDREWS 247

Report Date: 5/9/2013
Report #: 2
Actual Days: 2.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days)	Total Job AFE Amount 1,125,011.51	Cumulative Cost 218,418.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 1,430.0	Depth Progress (ft) 1,357.00	Daily Cost Total 46,166.00
Weather	Hole Condition	Drilling Hours (hrs) 15.00	Average ROP (ft/hr) 90.5	Days From Spud (days) 1.04

Ops and Depth @ Morning Report

R/U CMT EQUIP

Last 24hr Summary

TD SURFACE SECT, TOO H, RUN 8 5/8" 24# J-55 SURF CSG, R/U CMT EQUIPMENT

24hr Forecast

CMT SURF HOLE, N/U BOP, TEST BOP, RIH W/ PROD BHA, TEST CSG, DRILL SHOE & FLOAT TRACK, FIT, DRILL PROD SECT

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	21:00	15.00	SURFAC	DRILL	DRLG	P	73.0	1,430.0	DRILL 12.25" SURF SECTION F/ 73' - T/ 1430' TD.
21:00	22:00	1.00	SURFAC	CEMENT	CIRC	P	1,430.0	1,430.0	COND & CIRC HOLE CLEAN.
22:00	00:30	2.50	SURFAC	CASING	TRIP	P	1,430.0	1,430.0	TOOH TO RUN SURF CSG F/ TD - T/ BIT.
00:30	02:00	1.50	SURFAC	CASING	RURD	P	1,430.0	1,430.0	CLEAN FLOOR & R/U H&P CRT.
02:00	05:00	3.00	SURFAC	CASING	RNCS	P	1,430.0	1,430.0	RIH W/ 8 5/8" 24# J-55 SURF CSG, SET @ 1421.4', 35 JTS CSG, 1 PUP JOINT & CSG HANGER, SHOE @ 1421.4', TOP OF FLOAT @ 1382.1',
05:00	06:00	1.00	SURFAC	CEMENT	RURD	P	1,430.0	1,430.0	PJSM, R/U CEMENT EQUIPMENT.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
ARGUINDEGUI OIL CO	FUEL HAULER	CONTRACTOR	1	3.00	3.00
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	2	2.00	4.00
GE OIL AND GAS	WELLHEAD HAND	CONTRACTOR	1	3.00	3.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
SCHLUMBERGER	CMT CREW	CONTRACTOR	5	4.00	20.00
TUBOSCOPE INC (VETCO)	CASING CREW	CONTRACTOR	3	4.00	12.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
73.0	1,430.0	1,374.00	15.00	90.5	500	50,000.0	100	1,500.0	3,500.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	0.00	0.0



Daily Partner Report

UNIVERSITY ANDREWS 247

Report Date: 5/10/2013
Report #: 3
Actual Days: 3.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days)	Total Job AFE Amount 1,125,011.51	Cumulative Cost 272,366.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 1,613.0	Depth Progress (ft) 183.00	Daily Cost Total 53,948.00
Weather	Hole Condition	Drilling Hours (hrs) 2.50	Average ROP (ft/hr) 73.2	Days From Spud (days) 2.04

Ops and Depth @ Morning Report

DRILL AHEAD @ 1613'.

Last 24hr Summary

CMT SURF HOLE, N/U BOP, TEST BOP, RIH W/ PROD BHA, TEST CSG, DRILL SHOE & FLOAT TRACK, FIT, DRILL PROD SECT.

24hr Forecast

DRILL PROD SECT.

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	08:00	2.00	SURFAC	CEMENT	CMNT	P	1,430.0	1,430.0	CMT SURF SECT, W/ 20 BBL SPACER, 153 BBL LEAD @ 13.6 PPG, 59 BBL TAIL @ 14.8 PPG, DISPLACED W/ 88 BBLs, BUMP PLUG, PRESSURE HELD @ 920 PSI, .25 BBL BACK WHEN CHECK PLUG HOLDING.
08:00	08:30	0.50	SURFAC	CEMENT	RURD	P	1,430.0	1,430.0	R/D CMT EQUIPMENT.
08:30	09:00	0.50	SURFAC	CEMENT	PULD	P	1,430.0	1,430.0	L/D LANDING JT W/ G.E. HAND.
09:00	14:00	5.00	SURFAC	CEMENT	NUND	P	1,430.0	1,430.0	CHANGE OUT 30" SPOOL - T/ 25" SPOOL, MAKE UP TO SPEED HEAD, CHANGE ROT HEAD, SET BOP ON WELL HEAD & NIPPLE UP.
14:00	14:30	0.50	SURFAC	CEMENT	SVRG	P	1,430.0	1,430.0	RIG SERVICE.
14:30	15:30	1.00	SURFAC	CEMENT	RURD	P	1,430.0	1,430.0	R/D CRT.
15:30	20:30	5.00	SURFAC	CEMENT	BOPE	P	1,430.0	1,430.0	R/U BOP TEST EQUIPMENT & TEST. FUNCTION TEST BOP, SET TEST PLUG, TEST CHOKE MANIFOLD, INSIDE KILL, OUTSIDE MANUAL HCR, BLINDS PIPE RAMS, GREY VALVE TIW MANUAL IBOP 250 LOW 3000 HIGH, GOOD TEST, TEST ANNULAR 250 LOW 2100 HIGH, TEST LINES VALVES BACK TO PUMPS 250 LOW 4100 HIGH, TEST ACCUM.
20:30	21:00	0.50	SURFAC	CEMENT	RURD	P	1,430.0	1,430.0	INSTALL WEAR BUSHING.
21:00	01:00	4.00	SURFAC	CEMENT	TRIP	P	1,430.0	1,430.0	P/U M/U BIT & MTR, TIH T/ 1374', TAG FLOAT, P/U & CLOSE ANNULAR FOR CSG TEST.
01:00	01:30	0.50	SURFAC	CEMENT	PRTS	P	1,430.0	1,430.0	CASING TEST, TEST TO 2100 PSI F/ 30 MIN, GOOD TEST.
01:30	03:15	1.75	SURFAC	CEMENT	COCF	P	1,430.0	1,430.0	DRILL OUT PLUG & SHOE TRACK & 10' NEW FORMATION.
03:15	03:30	0.25	SURFAC	CEMENT	FIT	P	1,430.0	1,430.0	FIT TO EMW OF 13 PPG, ACTIVE MW 9.9 PPG, PRESSURE HELD 270 PSI, GOOD TEST.
03:30	06:00	2.50	PROD1	DRILL	DRLG	P	1,430.0	1,613.0	DRILL 7 7/8" PROD SECT F/ 1430' - T/ 1613'.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
BATTLE ENERGY SERVICES	OTHER	CONTRACTOR	1	12.00	12.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CREEK CONSTRUCTION	TRUCKER	CONTRACTOR	1	5.00	5.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
H & P DRILLING	SAFETY PERSONNEL	CONTRACTOR	1	3.00	3.00
ROCKWATER ENERGY SERVICES	TRUCKER	CONTRACTOR	4	2.00	8.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
1,430.0	1,613.0	183.00	2.50	73.2	400	18,000.0	60	1,200.0	2,500.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	0.00	0.0



Daily Partner Report
UNIVERSITY ANDREWS 247

Report Date: 5/11/2013
Report #: 4
Actual Days: 4.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days)	Total Job AFE Amount 1,125,011.51	Cumulative Cost 295,939.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 3,509.0	Depth Progress (ft) 1,896.00	Daily Cost Total 23,573.00
Weather	Hole Condition	Drilling Hours (hrs) 23.50	Average ROP (ft/hr) 80.7	Days From Spud (days) 3.04

Ops and Depth @ Morning Report

DRILL AHEAD @ 3509'.

Last 24hr Summary

DRILL 7 7/8" PROD SECT F/ 1613' - T/ 3509'.

24hr Forecast

DRILL PROD SECT.

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	05:30	23.50	PROD1	DRILL	DRLG	P	1,613.0	3,509.0	DRILL 7 7/8" PROD SECT F/ 1613' - T/ 3509'.
05:30	06:00	0.50	PROD1	DRILL	SVRG	P	3,509.0	3,509.0	RIG SERVICE.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CREEK CONSTRUCTION	TRUCKER	CONTRACTOR	2	3.00	6.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
HALLIBURTON ENERGY SERVICES	TRUCKER	CONTRACTOR	2	3.00	6.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
1,613.0	3,509.0	2,079.00	23.50	80.7	400	21,000.0	75	1,350.0	3,500.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	0.00	0.0



Daily Partner Report
UNIVERSITY ANDREWS 247

Report Date: 5/12/2013
Report #: 5
Actual Days: 5.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days)	Total Job AFE Amount 1,125,011.51	Cumulative Cost 319,512.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 4,597.0	Depth Progress (ft) 1,088.00	Daily Cost Total 23,573.00
Weather	Hole Condition	Drilling Hours (hrs) 23.50	Average ROP (ft/hr) 46.3	Days From Spud (days) 4.04

Ops and Depth @ Morning Report
DRILL AHEAD @ 4597'.

Last 24hr Summary

DRILL 7 7/8" PROD SECT F/ 3509' - T/ 4597'.

LOST FULL RETURNS @ 4135', 4226', 4276'. PUMPED LCM SWEEP, GAINED FULL RETURNS, CONT DRLG

24hr Forecast

DRILL PROD SECT.

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	17:30	11.50	PROD1	DRILL	DRLG	P	3,509.0	4,051.0	DRILL 7 7/8" PROD SECT F/ 3509' - T/ 4051'.
17:30	18:00	0.50	PROD1	DRILL	SVRG	P	4,051.0	4,051.0	RIG SERVICE.
18:00	06:00	12.00	PROD1	DRILL	DRLG	P	4,051.0	4,597.0	DRILL 7 7/8" PROD SECT F/ 4051' - T/ 4597'.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
3,509.0	4,597.0	3,167.00	23.50	46.3	400	23,000.0	75	1,500.0	6,500.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	0.00	0.0



Daily Partner Report
UNIVERSITY ANDREWS 247

Report Date: 5/13/2013
Report #: 6
Actual Days: 6.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days)	Total Job AFE Amount 1,125,011.51	Cumulative Cost 343,085.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 5,765.0	Depth Progress (ft) 1,168.00	Daily Cost Total 23,573.00
Weather	Hole Condition	Drilling Hours (hrs) 22.00	Average ROP (ft/hr) 53.1	Days From Spud (days) 5.04

Ops and Depth @ Morning Report

TOOH F/ SURVEY TOOL.

Last 24hr Summary

DRILL 7 7/8" PROD SECT F/ 4597' - T/ 5765', BEGIN TOOH F/ SURVEY TOOL.

24hr Forecast

TOOH, CHANGE SURVEY TOOL, TIH, CONT DRLG 7 7/8" PROD SECT.

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	17:30	11.50	PROD1	DRILL	DRLG	P	4,597.0	5,223.0	DRILL PROD SECT F/ 4597' - T/ 5223'.
17:30	18:00	0.50	PROD1	DRILL	SVRG	P	5,223.0	5,223.0	RIG SERVICE.
18:00	04:30	10.50	PROD1	DRILL	DRLG	P	5,223.0	5,765.0	DRILL PROD SECT F/ 5223' - T/ 5765'.
04:30	05:00	0.50	PROD1	DRILL	CIRC	T	5,765.0	5,765.0	CIRC & SPOT LCM PILL, PREPARE TO TOOH.
05:00	06:00	1.00	PROD1	DRILL	TRIP	T	5,765.0	5,765.0	TOH F/ 5765' - T/ 4765'.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
4,597.0	5,765.0	4,335.00	22.00	53.1	375	23,000.0	75	2,000.0	7,000.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	0.00	0.0



Daily Partner Report

UNIVERSITY ANDREWS 247

Report Date: 5/14/2013
Report #: 7
Actual Days: 7.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 415,309.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 6,216.0	Depth Progress (ft) 451.00	Daily Cost Total 44,557.00
Weather	Hole Condition	Drilling Hours (hrs) 9.50	Average ROP (ft/hr) 47.5	Days From Spud (days) 6.04

Ops and Depth @ Morning Report

DRILL AHEAD @ 6216'.

Last 24hr Summary

TIH, CONT DRILL 7 7/8" PROD SECT F/ 5765' - T/ 6216'.

24hr Forecast

DRILL PROD SECT.

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	08:30	2.50	PROD1	DRILL	TRIP	P	5,765.0	5,765.0	POOH, LDDS F/ TELEDIFT.
08:30	09:45	1.25	PROD1	DRILL	CIRC	P	5,765.0	5,765.0	MIX & DISPLACE W/ WEIGHTED CALC CARB MUD @ 2000' F/ YATES, FILL W/ SAME.
09:45	12:15	2.50	PROD1	DRILL	TRIP	P	5,765.0	5,765.0	FINISH POOH, INSPECT BIT FOUND 6 CHIPPED CUTTERS.
12:15	12:45	0.50	PROD1	DRILL	PULD	P	5,765.0	5,765.0	M/U NEW BIT & TEST MUD MTR, GOOD TEST.
12:45	20:30	7.75	PROD1	DRILL	TRIP	P	5,765.0	5,765.0	M/U NEW TELEDIFT TIH
20:30	06:00	9.50	PROD1	DRILL	DRLG	P	5,765.0	6,216.0	DRILL F/ 5765' - T/ 6216'.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
ARGUINDEGUI OIL CO	FUEL HAULER	CONTRACTOR	1	3.00	3.00
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	5	3.00	15.00
GATOR	CASING CREW	CONTRACTOR	4	6.00	24.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
ROCKWATER ENERGY SERVICES	TRUCKER	CONTRACTOR	4	4.00	16.00
SCHLUMBERGER	TRUCKER	CONTRACTOR	1	4.00	4.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
5,765.0	6,216.0	451.00	9.50	47.5	375	23,000.0	75	2,000.0	7,000.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	0.00	0.0
Production1	5 1/2	8,369.0	16.5	5/17/2013		17.00		



Daily Partner Report

UNIVERSITY ANDREWS 247

Report Date: 5/15/2013
Report #: 8
Actual Days: 8.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 439,939.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 7,165.0	Depth Progress (ft) 949.00	Daily Cost Total 24,630.00
Weather	Hole Condition	Drilling Hours (hrs) 23.25	Average ROP (ft/hr) 40.8	Days From Spud (days) 7.04

Ops and Depth @ Morning Report

DRLG 7 7/8" PROD HOLE @ 7165'

Last 24hr Summary

DRLG 7 7/8" PROD F/ 6216 -6430/ PUMP LCM SWEEP / DRLG 7 7/8" PROD HOLE F/ 6430-7165

24hr Forecast

DRILL TD PROD SECTION

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	10:30	4.50	PROD1	DRILL	DRLG	P	6,216.0	6,430.0	DRILL 7.875" PROD. SECT FR. 6216.' TO 6430.' LOST FULL RETURNS
10:30	11:15	0.75	PROD1	DRILL	CIRC	P	6,430.0	6,430.0	PUMP HY LCM SWEEP SLOW CIR , ROTATE WHILE BUILDING 2ND SWEEP REGAIN FULL RETURNS
11:15	06:00	18.75	PROD1	DRILL	DRLG	P	6,430.0	7,165.0	DRILL 7 7/8" PROD HOLE FR. 6430.' TO 7,165'

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	2	1.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CREEK TRANSPORT	TRUCKER	CONTRACTOR	2	8.00	16.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
LIGHT TOWER RENTALS	OTHER	CONTRACTOR	2	1.00	2.00
ROCKWATER	TRUCKER	CONTRACTOR	5	12.00	60.00
SCHLUMBERGER	OTHER	CONTRACTOR	1	1.00	1.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
6,216.0	7,165.0	1,400.00	23.25	40.8	350	23,000.0	75	2,000.0	7,000.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	13.51	1,010.5
Production1	5 1/2	8,369.0	-3.5	5/17/2013		17.00		



Daily Partner Report

UNIVERSITY ANDREWS 247

Report Date: 5/16/2013
Report #: 9
Actual Days: 9.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 476,929.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 7,216.0	Depth Progress (ft) 51.00	Daily Cost Total 36,990.00
Weather CLEAR	Hole Condition SEAPING	Drilling Hours (hrs) 5.50	Average ROP (ft/hr) 9.3	Days From Spud (days) 8.04

Ops and Depth @ Morning Report

TIH @ 5035.'

Last 24hr Summary

DRLG 7 7/8" PROD HOLE F/ 7165.' - 7209.' / SPOT LCM PILL/ POOH T/ 2500'/ DISPLACE 9.9 MW W/ 11.5 MW/ POOH, L/D MOTOR & BIT/ RIG SERVICE/ P/U BIT & MOTOR, TIH T/ 1400'/ SLIP & CUT DRILL LINE/ TIH T/ 2500'/ DISPLACE 11.5 MW W/ 9.9 MW/ CONTINUE TIH

24hr Forecast

TIH T/ 7217' / DRLG 7 7/8" PROD HOLE

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	11:30	5.50	PROD1	DRILL	DRLG	P	7,165.0	7,216.0	DRILL 7.875" PROD SECT FR. 7165.' TO 7217.' HOLE SEAPING
11:30	12:00	0.50	PROD1	DRILL	CIRC	P	7,216.0	7,216.0	DISPLACE 30 BBL HI-VIS 16 PPB LCM PILL
12:00	16:15	4.25	PROD1	DRILL	TRIP	P	7,216.0	7,216.0	POOH/ LDDS TO 2500.' YATES ACTING UP
16:15	18:00	1.75	PROD1	DRILL	CIRC	P	7,216.0	7,216.0	CIRCULATE BTMS UP / DISPLACE FR. 2500.' TO SURF 11.4+ CC
18:00	21:30	3.50	PROD1	DRILL	TRIP	P	7,216.0	7,216.0	FINISH POOH LDDS CHANGE OUT MTR AND BIT
21:30	22:00	0.50	PROD1	DRILL	SVRG	P	7,216.0	7,216.0	RIG SERVICE
22:00	00:30	2.50	PROD1	DRILL	TRIP	P	7,216.0	7,216.0	P/U MOTOR & BIT / TEST SAME / TIH T/ 1,400'
00:30	02:00	1.50	PROD1	DRILL	SLPC	P	7,216.0	7,216.0	SLIP & CUT DRILL LINE
02:00	02:30	0.50	PROD1	DRILL	TRIP	P	7,216.0	7,216.0	TIH T/ 2500'
02:30	03:00	0.50	PROD1	DRILL	CIRC	P	7,216.0	7,216.0	CIRCULATE BTMS UP / DISPLACE FR. 2500.' TO SURF W/ 9.9 MW
03:00	06:00	3.00	PROD1	DRILL	TRIP	P	7,216.0	7,216.0	CONTINUE TO TIH

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	1.00	1.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CREEK CONSTRUCTION	TRUCKER	CONTRACTOR	3	6.00	18.00
H & B RENTALS	TRUCKER	CONTRACTOR	2	3.00	6.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
SCHLUMBERGER	OTHER	CONTRACTOR	1	2.00	2.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
7,165.0	7,216.0	1,451.00	5.50	9.3	350	23,000.0	75	2,000.0	7,000.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	13.51	1,010.5
Production1	5 1/2	8,369.0	-3.5	5/17/2013		17.00		



Daily Partner Report

UNIVERSITY ANDREWS 247

Report Date: 5/17/2013
Report #: 10
Actual Days: 10.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 660,009.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 8,230.0	Depth Progress (ft) 1,014.00	Daily Cost Total 183,080.00
Weather	Hole Condition SEAPING	Drilling Hours (hrs) 21.50	Average ROP (ft/hr) 47.2	Days From Spud (days) 9.04

Ops and Depth @ Morning Report

DRLG 7 7/8" PROD HOLE @ 8230'

Last 24hr Summary

FINISH TIH/ DRLG 7 7/8" PROD HOLE F/ 7209.' - 7390.' / RIG SERVICE/ DRLG 7 7/8" PROD HOLE F/ 7390.' - 8230.'
SURVEY @ 8166' = 2.4

24hr Forecast

DRLG 7 7/8" PROD HOLE T/ 8380' / CIRC/ LDDS/ LOG OPEN HOLE

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	08:00	2.00	PROD1	DRILL	TRIP	P	7,216.0	7,216.0	FINISH RIH
08:00	11:30	3.50	PROD1	DRILL	DRLG	P	7,216.0	7,390.0	DRILL 7.875" PROD. SECTION FR. 7216.' TO 7390.'
11:30	12:00	0.50	PROD1	DRILL	SVRG	P	7,390.0	7,390.0	SERVICE TOP DRIVE WRANGLER
12:00	06:00	18.00	PROD1	DRILL	DRLG	P	7,390.0	8,230.0	DRILL 7.875" FR. 7390.' TO 8230'

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CONOCOPHILLIPS CO	SUPERINTENDENT	EMPLOYEE	2	4.00	8.00
CONOCOPHILLIPS CO	OTHER	EMPLOYEE	1	2.00	2.00
CONOCOPHILLIPS CO	SAFETY PERSONNEL	CONTRACTOR	2	4.00	8.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	1	4.00	4.00
FAS-LINE SALES & RENTAL	VENDOR	CONTRACTOR	2	2.00	4.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
HALLIBURTON	OTHER	CONTRACTOR	3	3.00	9.00
HB RENTALS	VENDOR	CONTRACTOR	2	3.00	6.00
MAC -ODESSA	TRUCKER	CONTRACTOR	1	2.00	2.00
RED MAN PIPE & SUPPLY	VENDOR	CONTRACTOR	1	2.00	2.00
ROCKWATER ENERGY SERVICES	TRUCKER	CONTRACTOR	2	3.00	6.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
7,216.0	8,230.0	1,014.00	21.50	47.2	350	23,000.0	75	2,000.0	7,000.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	13.51	1,010.5
Production1	5 1/2	8,369.0	-3.5	5/17/2013		17.00		



Daily Partner Report

UNIVERSITY ANDREWS 247

Report Date: 5/18/2013
Report #: 11
Actual Days: 11.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Surface, 1,421.4ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 687,939.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 8,380.0	Depth Progress (ft) 150.00	Daily Cost Total 27,930.00
Weather	Hole Condition SEAPING	Drilling Hours (hrs) 6.50	Average ROP (ft/hr) 23.1	Days From Spud (days) 10.04

Ops and Depth @ Morning Report

R/U ALLIED LOGGING EQUIPMENT

Last 24hr Summary

DRLG 7 7/8" PROD HOLE F/ 8230-8380/ LOST RETURNS SPOT LCM PULL TO 8180.' CIRC & MUD UP/ LDDS T/ 2500' / DISPLACE HOLE WITH 11.5 MW/ LDDS T/ SURFACE/ PULL WEAR BUSHING/ RIG SERVICE/ R/U ALLIED LOGGING EQUIPMENT

24hr Forecast

RUN OPEN HOLE LOGS/ SET 5.5" PROD CASING

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	12:30	6.50	PROD1	DRILL	DRLG	P	8,230.0	8,380.0	DRILL 7.875" PROD SECT. FR. 8230.' TO 8380.' WHILE HOLE SEAPING
12:30	15:30	3.00	PROD1	EVALFM	CIRC	P	8,380.0	8,380.0	CIRCULATE BUILD VOLUME, PUMPING LCM SWEEPS TO GET FULL RETURNS/ STILL SEAPING
15:30	16:00	0.50	PROD1	EVALFM	TRIP	P	8,380.0	8,380.0	LOST RETURNS SPOT LCM / PULL 200.' TO 8180 ABOVE ELENBURGER RE-BUILD LOGGING MUD
16:00	19:00	3.00	PROD1	EVALFM	CIRC	P	8,380.0	8,380.0	RE- BUILD VOLUME COND FOR LOGGING WL 8.0 VIS 37, WT 10.0
19:00	23:00	4.00	PROD1	EVALFM	TRIP	P	8,380.0	8,380.0	LDDS F/ 8180'-2500'
23:00	00:00	1.00	PROD1	EVALFM	CIRC	P	8,380.0	8,380.0	DISPLACE 10.0 PPG MW W/ 11.5 PPG MW
00:00	03:00	3.00	PROD1	EVALFM	TRIP	P	8,380.0	8,380.0	LDDS F/ 2500'- SURFACE
03:00	04:00	1.00	PROD1	EVALFM	OTHR	P	8,380.0	8,380.0	PULL WEAR BUSHING / WITNESSED BY HEITH GARCIA CLEAN & ORGANIZE RIG FLOOR
04:00	04:30	0.50	PROD1	EVALFM	SVRG	P	8,380.0	8,380.0	RIG SERVICE
04:30	06:00	1.50	PROD1	EVALFM	RURD	P	8,380.0	8,380.0	PJSM W/ ALLIED LOGGING CREW / RIG UP LOGGING EQUIPMENT

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
BAROID	MUD PERSONNEL	CONTRACTOR	1	6.00	6.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CREEK TRANSPORTS	TRUCKER	CONTRACTOR	2	2.50	5.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	1	2.00	2.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
H & P DRILLING	OTHER	CONTRACTOR	1	3.00	3.00
ROCK WATER	TRUCKER	CONTRACTOR	3	6.00	18.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	2	12.00	24.00

Drilling Parameters

Start (ftKB)	End (ftKB)	Cum Depth (ft)	Drilling Time (hrs)	Int ROP (ft/hr)	Flow Rate (gpm) (gpm)	WOB (lbf)	RPM (rpm)	SPP (psi)	Drill Tq	TFO (°)	dP (SPP) (psi)
8,230.0	8,380.0	1,164.00	6.50	23.1	350	23,000.0	75	2,000.0	7,000.0		

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	13.51	1,010.5
Production1	5 1/2	8,369.0	-3.5	5/19/2013		17.00		



Daily Partner Report
UNIVERSITY ANDREWS 247

Report Date: 5/19/2013
Report #: 12
Actual Days: 12.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Production1, 8,370.4ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 741,812.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 8,380.0	Depth Progress (ft) 0.00	Daily Cost Total 53,873.00
Weather CLER	Hole Condition STATIC	Drilling Hours (hrs)	Average ROP (ft/hr)	Days From Spud (days) 11.04

Ops and Depth @ Morning Report

RUN 5.5" PROD CASING @ 4927'

Last 24hr Summary

RUN OPEN HOLE LOGS/ RIG SERVICE/ R/U THIRD PARTY CRT/ RUN 5.5' PROD CASING T/ 2500'/ DISPLACE 11.5 MW W/ 10.0 MW/ RUN 5.5" PROD CASING T/ 4,927'

24hr Forecast

FINISH RUNNING 5.5" PROD CASING/ CEMENT 5.5" PROD CASING/ NIPPLE DOWN BOPS/ RIG DOWN/ PREP TO MOVE RIG

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	20:00	14.00	PROD1	EVALFM	ELOG	P	8,380.0	8,380.0	FINISH RU ALLIED E-LOG CALIBRATE TOOLS RUN 2 RUNS GR, NPHL,SGR,PE,CALI,DPHL,SPHL,PXND,LLD/LLS RD SAME
20:00	20:30	0.50	PROD1	CASING	SVRG	P	8,380.0	8,380.0	RIG SERVICE
20:30	02:30	6.00	PROD1	CASING	RNCS	P	8,380.0	8,380.0	PJSM / R/U THIRD PARTY CRT/ HYDRAULIC SLIPS/ RUN 5.5" PROD CASING T/ 2500'
02:30	03:00	0.50	PROD1	CASING	CIRC	P	8,380.0	8,380.0	DISPACE 11.5 MW W/ 10.0 MW
03:00	06:00	3.00	PROD1	CASING	RNCS	P	8,380.0	8,380.0	RUN 5.5" L-80 17 PPF, PROD. CASING T/ 4,927'

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	1.00	1.00
BOND COAT	CASING CREW	CONTRACTOR	1	11.00	11.00
BYRD, MIKE CASING CREWS	CASING CREW	CONTRACTOR	3	12.00	36.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CONOCOPHILLIPS CO	ENGINEER	EMPLOYEE	1	18.00	18.00
DRILCO GROUP	OTHER	CONTRACTOR	1	4.00	4.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	13.51	1,010.5
Production1	5 1/2	8,370.4	-1.5	5/19/2013		17.00		



Daily Partner Report

UNIVERSITY ANDREWS 247

Report Date: 5/20/2013
Report #: 13
Actual Days: 13.00

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Production1, 8,371.1ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 768,139.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 8,380.0	Depth Progress (ft) 0.00	Daily Cost Total 26,327.00
Weather	Hole Condition STATIC	Drilling Hours (hrs)	Average ROP (ft/hr)	Days From Spud (days) 12.04

Ops and Depth @ Morning Report

WAIT ON CEMENT TO BE DELIVERED TO LOCATION

Last 24hr Summary

RUN 5.5" CASING T/ 6220' / TROUBLESHOOT & REPLACE CRT / FINISH RUNNING 197 JNTS 17# 5.5" PROD CASING, SET @ 8371' / WAIT ON CEMENT TO BE DELIVERED TO LOCATION

24hr Forecast

WAIT ON CEMENT / CEMENT 5.5" PROD CASING/ NIPPLE DOWN BOP/ RIG DOWN PREP TO MOVE RIG

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	07:00	1.00	PROD1	CASING	RNCS	P	8,380.0	8,380.0	CONT. RUNNING 5.5 PROD. CSG. TO 6220.'
07:00	09:00	2.00	PROD1	CASING	RURD	T	8,380.0	8,380.0	CRT STUCK ON JOINT OF CSG. ATTEMPT TO RELEASE TILL BACK UP CRT ARRIVE LD JOINT CRT TOGETHER MU NEW CRT
09:00	13:15	4.25	PROD1	CASING	RNCS	P	8,380.0	8,380.0	FINISH RUNNING 197 JOINTS 5.5, L-80 17 # SET @8371.' MKR JT @7399./ 6294.9 / ROCK PIPE FR. 5032 - 3569
13:15	06:00	16.75	PROD1	CEMENT	CIRC	T	8,380.0	8,380.0	SCHLUMBERGER PUMPED WRONG CLASS CEMENT INTO SILO (PUMP OUT AND MIX AND REFILL) WAIT ON CEMENT TO BE DELIVERED

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
BYRD, MIKE CASING CREWS	CASING CREW	CONTRACTOR	2	6.00	12.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
CREEK	TRUCKER	CONTRACTOR	2	4.00	8.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00
H & P DRILLING	SUPERINTENDENT	CONTRACTOR	1	2.00	2.00
SCHLUMBERGER	CMT CREW	CONTRACTOR	4	7.00	28.00
SELMAN & ASSOCIATES	OTHER	CONTRACTOR	1	1.00	1.00

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	13.51	1,010.5
Production1	5 1/2	8,371.1	-1.5	5/19/2013		17.00		



Daily Partner Report
UNIVERSITY ANDREWS 247

Report Date: 5/21/2013
Report #: 14
Actual Days: 13.71

Well Info

API / UWI 4200345109	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 5/9/2013
County ANDREWS	State/Province TEXAS	Ground Elevation (ft) 3,244.00	Original KB/RT Elevation (ft) 3,262.00	

Job Summary

Job Category DRILLING	Last Casing String Production1, 8,371.1ftKB	AFE Duration Total (days) 13.00	Total Job AFE Amount 1,125,011.51	Cumulative Cost 986,964.92
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Daily Ops Summary

Rig H&P, 348	Wellbore Original Hole	Depth End (ftKB) 8,380.0	Depth Progress (ft) 0.00	Daily Cost Total 178,615.00
Weather	Hole Condition STATIC	Drilling Hours (hrs)	Average ROP (ft/hr)	Days From Spud (days) 13.04

Ops and Depth @ Morning Report

RIG DOWN PREP TO MOVE

Last 24hr Summary

WAIT ON CEMENT TO BE DELIVERED/ CEMENT 5.5" CASING/ SET PACK OFF/ NIPPLE DOWN BOPS/ CLEAN PITS / RELEASE RIG @ 23:00

24hr Forecast

RIG DOWN / MOVE RIG T/ UA 199

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	11:45	5.75	PROD1	CEMENT	CIRC	T	8,380.0	8,380.0	WAIT ON SCHLUMBERGER LITE CMT MIX AND DELIVERY
11:45	12:00	0.25	PROD1	CEMENT	SFTY	P	8,380.0	8,380.0	SAFETY MTG W/ RIG AND CMT CREWS
12:00	16:00	4.00	PROD1	CEMENT	CMNT	P	8,380.0	8,380.0	P/U CMT EQUIPMENT TO FLOR R/U CMT W/ 10 BBL FRESH WTR SPACER, 20 BBLS MUD PUSH 1075 SKS LITE 389 10.7, BBLS LEAD/ 550 SX 13.2 136 BBLS TAIL DISPLACE 193. BBL K-31 BIOSIDE BUMP PLUG PRESS TO 1938. BLEED .5 BBLS OK RD CMTRS CIRCULATED 50 BBLS TO SURFACE
16:00	17:00	1.00	PROD1	CEMENT	PRTS	P	8,380.0	8,380.0	SET PACK OFF / PRESSURE TEST
17:00	23:00	6.00	PROD1	CEMENT	NUND	P	8,380.0	8,380.0	NIPPLE DOWN CLEAN MUD TANKS/ RIG DOWN RIG RELEASE @ 23:00

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	2.00	2.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	12.00	24.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.00	120.00

Casing Strings

Casing Description	OD (in)	Set Depth (ftKB)	Top (ftKB)	Run Date	Drift Min (in)	Wt (lbs/ft)	Dens Fluid (lb/gal)	P (LO) (psi)
Conductor	16	56.0	18.5	4/4/2013		75.00		
Surface	8 5/8	1,421.4	18.5	5/10/2013		24.00	13.51	1,010.5
Production1	5 1/2	8,371.1	18.5	5/21/2013		17.00		