



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 7/30/2009
Report #: 1
Actual Days: 0.88

Well Info

API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development
Ground Elevation (ft) 3,265.00	Original KB Elevation (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/Project ID Number 10234064
Last Casing String Conductor, 75.0ftKB	Estimated Days 9.0	Plan TMD (ftKB) 6,886.0	Daily Cost Total 122,613.00	Cummulative Cost 122,613.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 1,090.0	Depth Progress (ft) 1,015.00	Depth End (TVD) (ftKB) 1,090.0
Days LTI (days) 390.00	Days RI (days) 352.00	Hole Condition	Drilling Hours (hrs) 8.50	Average ROP (ft/hr) 119.4
Days From Spud (days) 0.35				

Drilling Contact

JERRY MOORE / CHRIS JACKSON

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 12.25" HOLE @ 1090'.

Last 24hr Summary

MIRU. SPUD 12.25" HOLE ON 6-27-2009 @ 0030 HRS. DRL F/75' - 1090'.

24hr Forecast

DRL TO 1518' TD. RUN-CMT SURF PIPE. WOC. NU-TEST BOPE.

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
MOORE JERRY	ONSITE SUPERVISOR	281-674-0861
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
JACKSON CHRIS	DRILLING ENGR	432-425-1489
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	OpSub-...	Time P-N-T	Depth Start (ftKB)	Depth End (ftKB)	Operation
09:00	10:00	1.00	SURFAC	MOVE	WODL	P	75.0	75.0	PREPARE TO MOVE RIG.
10:00	20:30	10.50	MIRU	MOVE	MOB	P	75.0	75.0	PJSM. MOVE RIG EQUIPMENT F/ UNIVERSITY ANDREWS 168 TO UNIVERSITY ANDREWS 161. CONTACTED RRC ON JULY 30 @ 0830 HRS. JOB # 8195
20:30	21:30	1.00	SURFAC	DRILL	SFTY	P	75.0	75.0	PRE-SPUD INSPECTION / SAFETY MEETING. SPUD 12.25" HOLE ON 07-30-2009 @ 2130 HRS.
21:30	06:00	8.50	SURFAC	DRILL	DRLG	P	75.0	1,090.0	DRL F/75' - 1090.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID MUD CO	MUD PERSONNEL	CONTRACTOR	1	5.00	5.00
CHILDS CONSTRUCTION	OTHER	CONTRACTOR	32	11.00	352.00
CHILDS CONSTRUCTION	OTHER	CONTRACTOR	4	7.00	28.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	2	18.00	36.00
D & R INSPECTION	CASING CREW	CONTRACTOR	4	3.00	12.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	2	3.00	6.00
E L FARMER TRUCKING	FIRST DELIVERY	CONTRACTOR	2	4.00	8.00
FAS-LINE SALES & RENTAL	ROUSTABOUT CREW	CONTRACTOR	1	2.00	2.00
FAS-LINE SALES & RENTAL	ROUSTABOUT CREW	CONTRACTOR	6	11.00	66.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	13.00	13.00
H & P DRILLING	RIG CREW	CONTRACTOR	5	9.50	47.50
H & P DRILLING	RIG CREW	CONTRACTOR	5	6.00	30.00
HALLIBURTON	OTHER	CONTRACTOR	1	2.00	2.00
HARRIS RATHOLE SERVICE	OTHER	CONTRACTOR	5	10.00	50.00
HB RENTALS	OTHER	CONTRACTOR	2	8.00	16.00
JZ BITS	VENDOR	CONTRACTOR	1	2.00	2.00
JZ BITS	OTHER	CONTRACTOR	1	1.00	1.00
KELLY SERVICES	OTHER	CONTRACTOR	4	3.00	12.00
KOJO ENERGY INC	ROUSTABOUT CREW	CONTRACTOR	3	4.00	12.00
LANDTEL	OTHER	CONTRACTOR	1	8.00	8.00
NABORS WELL SERVICES LTD	TRUCKER	CONTRACTOR	7	12.00	84.00



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 7/31/2009
Report #: 2
Actual Days: 1.88

Well Info

API / UWI	Region/Division	District	Field Name	Original Spud Date
4200340714	PERMIAN	PERMIAN	EMBAR	7/30/2009
State/Province	County	Latitude (DMS)	Longitude (DMS)	Well Type
TEXAS	ANDREWS	32° 8' 53.76" N	102° 44' 0.52" W	Development
Ground Elevation (ft)	Original KB Elevation (ft)	KB-Ground Distance (ft)	AFE / RFE / Maint.#	Network/Project ID Number
3,265.00	3,281.00	16.00	WA5.CTX.0228	10234064
Last Casing String	Estimated Days	Plan TMD (ftKB)	Daily Cost Total	Cummulative Cost
Surface, 1,508.0ftKB	9.0	6,886.0	92,195.06	214,808.06
Rig	Wellbore	Depth End (ftKB)	Depth Progress (ft)	Depth End (TVD) (ftKB)
HELMERICH & PAYNE, H & P 306	Original Hole	1,518.0	428.00	1,518.0
Days LTI (days)	Days RI (days)	Hole Condition	Drilling Hours (hrs)	Average ROP (ft/hr)
391.00	353.00		4.25	100.7
				Days From Spud (days)
				1.35

Drilling Contact

JERRY MOORE / CHRIS JACKSON

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

NU BOP

Last 24hr Summary

DRL F/1090' - 1518'. LDDS. RUN-CMT SURF CSG. WOC. WELD ON HEAD. NU BOPE.

24hr Forecast

WOC. NU BOPE.

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
MOORE JERRY	ONSITE SUPERVISOR	281-674-0861
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
JACKSON CHRIS	DRILLING ENGR	432-425-1489
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	OpSub-...	Time P-N-T	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	10:15	4.25	SURFAC	DRILL	DRLG	P	1,090.0	1,518.0	DRL 12.25" HOLE F/1090' - 1518' TD.
10:15	11:00	0.75	SURFAC	DRILL	CIRC	P	1,518.0	1,518.0	PUMP 20 BBL SWEEP. DROP TOTCO.
11:00	14:00	3.00	SURFAC	CASING	TRIP	P	1,518.0	1,518.0	LDDS. TOTCO 1484' @ 0.21 DEG.
14:00	14:30	0.50	SURFAC	CASING	SFTY	P	1,518.0	1,518.0	PJSM FOR RUNNING CSG.
14:30	15:45	1.25	SURFAC	CASING	RURD	P	1,518.0	1,518.0	LEVEL DERRICK/ RU CRT
15:45	20:00	4.25	SURFAC	CASING	RNCS	P	1,518.0	1,518.0	RUN 37 JTS 8.625" 24# J-55 ST&C CSG AS FOLLOWS: 36 CSG JTS, 1 FLOAT COLLAR @ 1462', 1 SHOE JT, 1 GUIDE SHOE. CSG SET @ 1508'.
20:00	20:30	0.50	SURFAC	CEMENT	SFTY	P	1,518.0	1,518.0	PJSM FOR CMTG OPS.
20:30	22:30	2.00	SURFAC	CEMENT	CMNT	P	1,518.0	1,518.0	RU SCHLUMBERGER. PUMP 450 SX 35/65 POZ C W/ 5% NACL, D6% D20, 2% S1 & 0.25% PPS MIXED @ 12.8 PPG, 1.99 FT3/SX & 10.91 GAL/SX WTR, FOLLOWED W/200 SX 15/85 POZ C W/3% D20, 2% S1 & 0.25 % D130 MIXED @ 13.5 PPG W/1.67 FT3/SX & 8.67 GAL/SX WTR. DISP W/90 BBLs BUMP PLUG W/800# 500 OVER. FLOAT HELD. CIRC 50 BBLs [141 SX] CMT TO SURF. RD SCHLUMBERGER.
22:30	23:30	1.00	SURFAC	CEMENT	WOC	P	1,518.0	1,518.0	WOC.
23:30	00:45	1.25	SURFAC	WHDB...	PRTS	P	1,518.0	1,518.0	TEST FLOOR VALVES WHILE WOC. TEST CHOKE MANIFOLD VALVES AND FLOOR VALVES AT 250 PSI LOW AND 3000 PSI HIGH.
00:45	01:45	1.00	SURFAC	CEMENT	WOC	P	1,518.0	1,518.0	CONTINUE WOC.
01:45	02:00	0.25	SURFAC	WHDB...	SFTY	P	1,518.0	1,518.0	PJSM FOR CUTTING CONDUCTOR & INSTALLING HEAD.
02:00	04:00	2.00	SURFAC	WHDB...	SEQP	P	1,518.0	1,518.0	CUT CONDUCTOR/ INSTALL 11" X 5M CASING HEAD
04:00	05:00	1.00	SURFAC	DRILL	RURD	P	1,518.0	1,518.0	RIG DOWN CRT
05:00	05:15	0.25	SURFAC	WHDB...	SFTY	P	1,518.0	1,518.0	PJSM F/NU OPS
05:15	06:00	0.75	SURFAC	WHDB...	NUND	P	1,518.0	1,518.0	NIPPLE UP BOP

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	1	1.00	1.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00



Daily Drilling Report UNIVERSITY ANDREWS 161

Report Date: 8/1/2009
Report #: 3
Actual Days: 2.88

Well Info

API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development
Ground Elevation (ft) 3,265.00	Original KB Elevation (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/Project ID Number 10234064
Last Casing String Surface, 1,508.0ftKB	Estimated Days 9.0	Plan TMD (ftKB) 6,886.0	Daily Cost Total 44,367.85	Cummulative Cost 259,175.91
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 2,681.0	Depth Progress (ft) 1,163.00	Depth End (TVD) (ftKB) 2,680.8
Days LTI (days) 392.00	Days RI (days) 354.00	Hole Condition	Drilling Hours (hrs) 10.00	Average ROP (ft/hr) 116.3
Days From Spud (days) 2.35				

Drilling Contact

JERRY MOORE / CHRIS JACKSON

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 7.875" HOLE @ 2681'.

Last 24hr Summary

NU-TEST BOPE. TIH DISP W/BRINE. DRL FLOAT-CMT. CSG-FIT TEST. DRL 7.875" HOLE F/1518' - 2681'.

24hr Forecast

DRL AHEAD.

General Remarks

NO HSE INCIDENTS NO HSE ACCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
MOORE JERRY	ONSITE SUPERVISOR	281-674-0861
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
JACKSON CHRIS	DRILLING ENGR	432-425-1489
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	OpSub...	Time P-N-T	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	09:30	3.50	SURFAC	CEMENT	NUND	P	1,518.0	1,518.0	NU BOPE
09:30	10:00	0.50	SURFAC	CEMENT	SFTY	P	1,518.0	1,518.0	PJSM F/BOPE TESTING
10:00	14:00	4.00	SURFAC	CEMENT	BOPE	P	1,518.0	1,518.0	TEST BOPE & CHOKE MANIFOLD TO 3000 PSI HIGH & 250 LOW. HYDRIL TO 2000 PSI HIGH 250 LOW.
14:00	17:00	3.00	SURFAC	CEMENT	TRIP	P	1,518.0	1,518.0	P/U BHA & TIH TO FLOAT COLLAR.
17:00	17:30	0.50	SURFAC	CEMENT	OTHR	P	1,518.0	1,518.0	TEST CSG TO 300 PSI FOR 30 MIN HELD BOP DRILL W/ RIG CREW.
17:30	18:15	0.75	SURFAC	CEMENT	COCF	P	1,518.0	1,518.0	DRL FLOAT-CMT.
18:15	18:45	0.50	PROD1	DRILL	SVRG	P	1,518.0	1,518.0	RIG SERVICE
18:45	19:00	0.25	SURFAC	CEMENT	DRLG	P	1,518.0	1,528.0	DRL F/1518' - 1528
19:00	19:15	0.25	SURFAC	EVALFM	FIT	P	1,528.0	1,528.0	RUN FIT TEST 100 PSI F/10 MINS HELD
19:15	20:45	1.50	PROD1	DRILL	DRLG	P	1,528.0	1,825.0	DRLG F/ 1528' - 1825'.
20:45	21:00	0.25	PROD1	DRILL	SRVY	P	1,825.0	1,825.0	TDS 1750' @ 0.80 DEG
21:00	23:15	2.25	PROD1	DRILL	DRLG	P	1,825.0	2,095.0	DRILL F/1825' - 2095
23:15	23:30	0.25	PROD1	DRILL	SRVY	P	2,095.0	2,095.0	TDS 2020' @ 1.50 DEG
23:30	02:30	3.00	PROD1	DRILL	DRLG	P	2,095.0	2,365.0	DRILL F/2095' - 2365'
02:30	02:45	0.25	PROD1	DRILL	DRLG	P	2,365.0	2,365.0	TDS 2290' @ 1.4 DEG
02:45	05:45	3.00	PROD1	DRILL	DRLG	P	2,365.0	2,681.0	DRILL F/2365' - 2681'
05:45	06:00	0.25	PROD1	DRILL	SRVY	P	2,681.0	2,681.0	TDS 2607' @ 0.90 DEG

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
H & P DRILLING	OTHER	CONTRACTOR	1	2.00	2.00
NABORS WELL SERVICES LTD	TRUCKER	CONTRACTOR	2	4.00	8.00
NATIONAL OILWELL	VENDOR	CONTRACTOR	1	2.00	2.00
SUPERIOR WELDING	VENDOR	CONTRACTOR	2	4.00	8.00



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 8/2/2009
Report #: 4
Actual Days: 3.88

Well Info

Well Info		Well Name			Original Spud Date
API / UWI	Region/Division	District	Field Name		7/30/2009
4200340714	PERMIAN	PERMIAN	EMBAR		
State/Province	County	Latitude (DMS)	Longitude (DMS)	Well Type	Well Sub Type
TEXAS	ANDREWS	32° 8' 53.76" N	102° 44' 0.52" W	Development	Production
Ground Elevation (ft)	Original KB Elevation (ft)	KB-Ground Distance (ft)	AFE / RFE / Maint.#	Network/Project ID Number	Total AFE Amount
3,265.00	3,281.00	16.00	WA5.CTX.0228	10234064	760,550.00
Last Casing String		Estimated Days	Plan TMD (ftKB)	Daily Cost Total	Cummulative Cost
Surface, 1,508.0ftKB		9.0	6,886.0	27,370.00	286,545.91
Rig		Wellbore	Depth End (ftKB)	Depth Progress (ft)	Depth End (TVD) (ftKB)
HELMERICH & PAYNE, H & P 306		Original Hole	4,890.0	2,209.00	
Days LTI (days)	Days RI (days)	Hole Condition	Drilling Hours (hrs)	Average ROP (ft/hr)	Days From Spud (days)
393.00	355.00		23.00	96.0	3.35

Drilling Contact

JERRY MOORE / CHRIS JACKSON

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 7.875" HOLE @ 4890'.

Last 24hr Summary

DRL 7.875" HOLE F/2681' - 4890'.

24hr Forecast

DRL AHEAD.

General Remarks

NO HSE INCIDENTS NO HSE ACCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
MOORE JERRY	ONSITE SUPERVISOR	281-674-0861
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
JACKSON CHRIS	DRILLING ENGR	432-425-1489
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	OpSub-...	Time P-N-T	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	08:00	2.00	PROD1	DRILL	DRLG	P	2,681.0	2,952.0	DRL 7.875" HOLE F/2681' - 2952'.
08:00	08:15	0.25	PROD1	DRILL	SRVY	P	2,952.0	2,952.0	TDS 2872' @ 1.20 DEG.
08:15	10:15	2.00	PROD1	DRILL	DRLG	P	2,952.0	3,222.0	DRL F/2952' - 3222'.
10:15	10:30	0.25	PROD1	DRILL	SRVY	P	3,222.0	3,222.0	TDS 3143' @ 1.10 DEG
10:30	12:15	1.75	PROD1	DRILL	DRLG	P	3,222.0	3,495.0	DRL F/3222' - 3495'.
12:15	12:30	0.25	PROD1	DRILL	SRVY	P	3,495.0	3,495.0	TDS 3420' @ 1.90 DEG.
12:30	15:15	2.75	PROD1	DRILL	DRLG	P	3,495.0	3,764.0	DRL F/3495' - 3764'.
15:15	15:30	0.25	PROD1	DRILL	SRVY	P	3,764.0	3,764.0	TDS 3687' @ 1.30 DEG.
15:30	19:15	3.75	PROD1	DRILL	DRLG	P	3,764.0	4,025.0	DRL F/3764' - 4025'.
19:15	19:30	0.25	PROD1	DRILL	SRVY	P	4,025.0	4,025.0	TDS 3959' @ 1.30 DEG.
19:30	23:30	4.00	PROD1	DRILL	DRLG	P	4,025.0	4,295.0	DRL F/4025' - 4295'.
23:30	23:45	0.25	PROD1	DRILL	SRVY	P	4,295.0	4,295.0	TDS 4229' @ 0.8 DEG.
23:45	02:45	3.00	PROD1	DRILL	DRLG	P	4,295.0	4,570.0	DRL F/4295' - 4570'.
02:45	03:00	0.25	PROD1	DRILL	SRVY	P	4,570.0	4,570.0	TDS 4502' @ 0.8 DEG.
03:00	05:30	2.50	PROD1	DRILL	DRLG	P	4,570.0	4,846.0	DRL F/4570' - 4846'.
05:30	05:45	0.25	PROD1	DRILL	SRVY	P	4,846.0	4,846.0	TDS 4773' @ 0.10 DEG.
05:45	06:00	0.25	PROD1	DRILL	DRLG	P	4,846.0	4,890.0	DRL F/4846' - 4890'.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 8/3/2009
Report #: 5
Actual Days: 4.88

Well Info

API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 7/30/2009	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,265.00	Original KB Elevation (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/Project ID Number 10234064	Total AFE Amount 760,550.00
Last Casing String Surface, 1,508.0ftKB		Estimated Days 9.0	Plan TMD (ftKB) 7,095.0	Daily Cost Total 35,846.20	Cummulative Cost 322,392.11
Rig HELMERICH & PAYNE, H & P 306		Wellbore Original Hole	Depth End (ftKB) 6,895.0	Depth Progress (ft) 2,005.00	Depth End (TVD) (ftKB)
Days LTI (days) 394.00	Days RI (days) 356.00	Hole Condition	Drilling Hours (hrs) 23.00	Average ROP (ft/hr) 87.2	Days From Spud (days) 4.35

Drilling Contact

JERRY MOORE / CHRIS JACKSON

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 7.875" HOLE @ 6895'.

Last 24hr Summary

DRL 7.875" HOLE F/4890' - 6895'.

24hr Forecast

DRL TO TD. LDDS. RUN CSG

General Remarks

NO HSE INCIDENTS NO HSE ACCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
MOORE JERRY	ONSITE SUPERVISOR	281-674-0861
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
JACKSON CHRIS	DRILLING ENGR	432-425-1489
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	OpSub-...	Time P-N-T	Depth Start (ftKB)	Depth End (ftKB)	Operation
06:00	08:15	2.25	PROD1	DRILL	DRLG	P	4,890.0	5,117.0	DRL 7.875" HOLE F/4890' - 5117'.
08:15	08:30	0.25	PROD1	DRILL	SRVY	P	5,117.0	5,117.0	TDS 5039' @ 0.20 DEG
08:30	10:30	2.00	PROD1	DRILL	DRLG	P	5,117.0	5,387.0	DRL F/5117' - 5387'.
10:30	10:45	0.25	PROD1	DRILL	SRVY	P	5,387.0	5,387.0	TDS 5315' @ 0.50 DEG.
10:45	14:00	3.25	PROD1	DRILL	DRLG	P	5,387.0	5,658.0	DRL F/5387' - 5658'.
14:00	14:15	0.25	PROD1	DRILL	SRVY	P	5,658.0	5,658.0	TDS 5585' @ 0.50 DEG.
14:15	16:45	2.50	PROD1	DRILL	DRLG	P	5,658.0	5,929.0	DRL F/5658' - 5929'.
16:45	17:00	0.25	PROD1	DRILL	SRVY	P	5,929.0	5,929.0	TDS 5855' @ 0.60 DEG.
17:00	19:30	2.50	PROD1	DRILL	DRLG	P	5,929.0	6,195.0	DRL F/5929' - 6195'.
19:30	19:45	0.25	PROD1	DRILL	SRVY	P	6,195.0	6,195.0	TDS 6127' @ 0.3 DEG.
19:45	23:30	3.75	PROD1	DRILL	DRLG	P	6,195.0	6,460.0	DRL F/6195' - 6460'.
23:30	23:45	0.25	PROD1	DRILL	SRVY	P	6,460.0	6,460.0	TDS 6305' @ 0.8 DEG.
23:45	03:30	3.75	PROD1	DRILL	DRLG	P	6,460.0	6,735.0	DRL F/6460' - 6735'.
03:30	03:45	0.25	PROD1	DRILL	SRVY	P	6,735.0	6,735.0	TDS 6666' @ 0.8 DEG.
03:45	06:00	2.25	PROD1	DRILL	DRLG	P	6,735.0	6,895.0	DRL F/6735' - 6895'.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
D & R INSPECTION	CASING CREW	CONTRACTOR	4	5.00	20.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	4	3.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
H B RENTALS	OTHER	CONTRACTOR	1	1.00	1.00
SIERRA ENGINEERING	SAFETY PERSONNEL	CONTRACTOR	1	3.00	3.00
SMITH OILFIELD SERVICES	OTHER	CONTRACTOR	1	1.00	1.00



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 8/3/2009
Report #: 5
Actual Days: 4.88

Well Info

API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 7/30/2009	
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,265.00	Orig KB/RT (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/Project ID Number 10234064	Total Job AFE Amount 760,550.00
Last Casing String Surface, 1,508.0ftKB		Estimated Days 9.0	Plan TMD (ftKB) 7,095.0	Daily Cost Total 35,846.20	Cumulative Cost 322,392.11
Rig HELMERICH & PAYNE, H & P 306		Wellbore Original Hole	Depth End (ftKB) 6,895.0	Depth Progress (ft) 2,005.00	Depth End (TVD) (ftKB)
Days LTI (days) 394.00	Days RI (days) 356.00	Hole Condition	Drilling Hours (hrs) 23.00	Average ROP (ft/hr) 87.2	Days From Spud (days) 4.35

Drilling Contact
VICKI GRADMAN

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

DRLG 7.875" HOLE @ 6895'.

Last 24hr Summary

DRL 7.875" HOLE F/4890' - 6895'.

24hr Forecast

DRL TO TD. LDDS. RUN CSG

General Remarks

NO HSE INCIDENTS NO HSE ACCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
MOORE JERRY	ONSITE SUPERVISOR	281-674-0861
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
JACKSON CHRIS	DRILLING ENGR	432-425-1489
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

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	08:15	2.25	PROD1	DRILL	DRLG	P	4,890.0	5,117.0	DRL 7.875" HOLE F/4890' - 5117'.
08:15	08:30	0.25	PROD1	DRILL	SRVY	P	5,117.0	5,117.0	TDS 5039' @ 0.20 DEG
08:30	10:30	2.00	PROD1	DRILL	DRLG	P	5,117.0	5,387.0	DRL F/5117' - 5387'.
10:30	10:45	0.25	PROD1	DRILL	SRVY	P	5,387.0	5,387.0	TDS 5315' @ 0.50 DEG.
10:45	14:00	3.25	PROD1	DRILL	DRLG	P	5,387.0	5,658.0	DRL F/5387' - 5658'.
14:00	14:15	0.25	PROD1	DRILL	SRVY	P	5,658.0	5,658.0	TDS 5585' @ 0.50 DEG.
14:15	16:45	2.50	PROD1	DRILL	DRLG	P	5,658.0	5,929.0	DRL F/5658' - 5929'.
16:45	17:00	0.25	PROD1	DRILL	SRVY	P	5,929.0	5,929.0	TDS 5855' @ 0.60 DEG.
17:00	19:30	2.50	PROD1	DRILL	DRLG	P	5,929.0	6,195.0	DRL F/5929' - 6195'.
19:30	19:45	0.25	PROD1	DRILL	SRVY	P	6,195.0	6,195.0	TDS 6127' @ 0.3 DEG.
19:45	23:30	3.75	PROD1	DRILL	DRLG	P	6,195.0	6,460.0	DRL F/6195' - 6460'.
23:30	23:45	0.25	PROD1	DRILL	SRVY	P	6,460.0	6,460.0	TDS 6305' @ 0.8 DEG.
23:45	03:30	3.75	PROD1	DRILL	DRLG	P	6,460.0	6,735.0	DRL F/6460' - 6735'.
03:30	03:45	0.25	PROD1	DRILL	SRVY	P	6,735.0	6,735.0	TDS 6666' @ 0.8 DEG.
03:45	06:00	2.25	PROD1	DRILL	DRLG	P	6,735.0	6,895.0	DRL F/6735' - 6895'.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
D & R INSPECTION	CASING CREW	CONTRACTOR	4	5.00	20.00
E L FARMER TRUCKING	TRUCKER	CONTRACTOR	4	3.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
H B RENTALS	OTHER	CONTRACTOR	1	1.00	1.00
SIERRA ENGINEERING	SAFETY PERSONNEL	CONTRACTOR	1	3.00	3.00
SMITH OILFIELD SERVICES	OTHER	CONTRACTOR	1	1.00	1.00



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 8/4/2009
Report #: 6
Actual Days: 5.88

Well Info

API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development
Ground Elevation (ft) 3,265.00	Orig KB/RT (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Well Sub Type Production
Last Casing String Surface, 1,508.0ftKB	Estimated Days 9.0	Plan TMD (ftKB) 7,095.0	Network/Project ID Number 10234064	Total Job AFE Amount 760,550.00
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 7,110.0	Daily Cost Total 55,398.18	Cumulative Cost 377,790.29
Days LTI (days) 395.00	Days RI (days) 357.00	Hole Condition	Depth Progress (ft) 215.00	Depth End (TVD) (ftKB)
		Drilling Hours (hrs) 4.75	Average ROP (ft/hr) 45.3	Days From Spud (days) 5.35

Drilling Contact
VICKI GRADMAN

Comment

Daily Ops Summary

Ops and Depth @ Morning Report
RUNNING CSG. DEPTH @ 7110'

Last 24hr Summary

DRL TO 7110' TD. CIRC & COND. LDDDS. LOG. PREPARE TO RUN CSG.

24hr Forecast

RUN-CMT CSG, ND BOPE, SET SLIPS, JET PITS, PREP TO MOVE TO UNIVERSITY ANDREWS 161

General Remarks

NO HSE ACCIDENTS / NO HSE INCIDENTS
NOTIFIED TX RRC. @ 0450 8/5/09
TALKED TO AUDRIE OPER.#2

Responsible Daily Contacts

Contact Name	Title	Phone Work
RAMIREZ ADAN	ONSITE SUPERVISOR	281-560-2802
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
JACKSON CHRIS	DRILLING ENGR	432-425-1489
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

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	07:15	1.25	PROD1	DRILL	DRLG	P	6,895.0	6,966.0	DRL F/6910' - 6922'.
07:15	07:30	0.25	PROD1	DRILL	SRVY	P	6,966.0	6,966.0	TDS 6888' @ 0.70 DEG.
07:30	11:00	3.50	PROD1	DRILL	DRLG	P	6,966.0	7,110.0	DRL F/6966' - 7110' TD.DRLG SLOWED DOWN @ 7080'. TO 7110' PROD. TD. TO 25' PH
11:00	13:00	2.00	PROD1	DRILL	CIRC	P	7,110.0	7,110.0	CIR & COND. HOLE FOR LOGS.
13:00	19:30	6.50	PROD1	EVALFM	TRIP	P	7,110.0	7,110.0	LDDDS
19:30	20:00	0.50	PROD1	EVALFM	SFTY	P	7,110.0	7,110.0	PJSM FOR LOGGING OPS.
20:00	21:00	1.00	PROD1	EVALFM	RURD	P	7,110.0	7,110.0	RU PACKOFF & SCHLUMBERGER WL.
21:00	04:00	7.00	PROD1	EVALFM	ELOG	P	7,110.0	7,110.0	RUN OPEN HOLE LOGS. LOGGERS TD 7119'. RD WL.
04:00	04:30	0.50	PROD1	CASING	RURD	P	7,110.0	7,110.0	RU CRT & HYDRAULIC SLIPS. PREPARE TO RUN CSG.
04:30	06:00	1.50	PROD1	CASING	RNCS	P	7,110.0	7,110.0	RUNNING 5 1/2" CASING.

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
BAROID	MUD PERSONNEL	CONTRACTOR	1	1.00	1.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	18.00	18.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
NABORS WELL SERVICE	TRUCKER	CONTRACTOR	1	1.00	1.00
SCHLUMBERGER	WIRELINE CREW	CONTRACTOR	3	10.00	30.00
SPECIALTY RENTAL TOOLS	VENDOR	CONTRACTOR	1	1.00	1.00



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 8/5/2009
Report #: 7
Actual Days: 6.54

Well Info

API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN	Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development
Ground Elevation (ft) 3,265.00	Orig KB/RT (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/Project ID Number 10234064
Last Casing String Production 1, 7,095.0ftKB	Estimated Days 9.0	Plan TMD (ftKB) 7,095.0	Daily Cost Total 272,982.58	Cumulative Cost 650,772.87
Rig HELMERICH & PAYNE, H & P 306	Wellbore Original Hole	Depth End (ftKB) 7,110.0	Depth Progress (ft) 0.00	Depth End (TVD) (ftKB)
Days LTI (days) 396.00	Days RI (days) 358.00	Hole Condition	Drilling Hours (hrs)	Average ROP (ft/hr)
Days From Spud (days) 6.35				

Drilling Contact
VICKI GRADMAN

Comment

Daily Ops Summary

Ops and Depth @ Morning Report

RD H&P 306 & WAITING ON TRUCKS

Last 24hr Summary

RUN & CEMENT PRODUCTION CASING. ND BOPE. SET SLIPS. RIG DOWN. RELEASE RIG

24hr Forecast

MIRU UNIVERSIT ANDREWS #166

General Remarks

NO HSE INCIDENTS / NO HSE ACCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
BRUMLEY TERRY	ONSITE SUPERVISOR	432-425-1489
RAMIREZ ADAN	ONSITE SUPERVISOR	281-560-2802
GRADMAN VICTORIA	DRILLING ENGR	832-486-2516
HAIR COTTON	D&C SUPERINT	432-368-1302
DOOLEY LYNN	D&C MANAGER	
YORK GREG	D&C DIRECTOR	

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	CASING	RNCS	P	7,110.0	7,110.0	RUN CASING AS FOLLOWS: RAN 175 JTS 5.5" 17# J55 LT&C CSG. TOP TO BTM: 131 CSG JTS MARKER JT [5305'-5345'] 19 CSG JTS MARKER JOINTS [6110'-6149'] 22 CSG JTS FLOAT COLLAR [7050'] 1 SHOE JT FLOAT SHOE. CSG SET @ 7,095'. RD CSG EQUIP.
11:30	14:00	2.50	PROD1	CASING	CIRC	P	7,110.0	7,110.0	CIRCULATE & RU SCHLUMBERGER.
14:00	14:30	0.50	PROD1	CEMENT	SFTY	P	7,110.0	7,110.0	HELD SAFETY MEETING WITH ALL PERSONNEL. RU CEMENTING HEAD & TEST LINES.
14:30	16:45	2.25	PROD1	CEMENT	CMNT	P	7,110.0	7,110.0	PUMP CEMENT 20 BBL FRESH WATER SPACER 458 BBL (978 SXS) LEAD CEMENT 11.8 PPG / 2.58 CUFT/SX MIXED @ 15.27 GAL/SX 143 BBL (450 SXS) TAIL CEMENT 13.2 PPG / 1.74 CUFT/SX MIXED @ 8.71 GAL/SX 160 BBL FRESH WATER / 7.75 GALLONS BACTRON K-31 FOR DISPLACEMENT CIRCULATE 70 BBLS (153 SXS) OF CEMENT TO SURFACE
16:45	17:15	0.50	PROD1	CEMENT	RURD	P	7,110.0	7,110.0	RD CEMENTERS.
17:15	18:30	1.25	PROD1	CEMENT	NUND	P	7,110.0	7,110.0	PICK UP BOPE & PREPARE TO SET SLIPS
18:30	19:00	0.50	PROD1	CEMENT	NUND	P	7,110.0	7,110.0	SET SLIPS IN 122,000# TENSION. PERFORM HOTWORK PERMIT CHECKS & ROUGH CUT CASING. LD CUT OFF JT.



Daily Drilling Report

UNIVERSITY ANDREWS 161

Report Date: 8/5/2009
Report #: 7
Actual Days: 6.54

Time Log

Start Time	End Time	Dur (hrs)	Phase	Op Code	Activity Code	Time P-T-X	Depth Start (ftKB)	Depth End (ftKB)	Operation
19:00	20:00	1.00	PROD1	CEMENT	RURD	P	7,110.0	7,110.0	RD CASING RUNNING TOOL.
20:00	21:00	1.00	PROD1	CEMENT	NUND	P	7,110.0	7,110.0	ND BOPE.
21:00	22:00	1.00	PROD1	MOVE	RURD	P	7,110.0	7,110.0	CLEAN PITS & RD H&P 306. RELEASE H&P 306 @ 10:00 PM CDT,08/05/2009

Head Count / Man Hours

Company	Function	Personnel Type	Count	Time (hrs)	Tot Time (hrs)
CONOCOPHILLIPS CO	ONSITE SUPERVISOR	EMPLOYEE	1	12.00	12.00
H & P DRILLING	RIG CREW	CONTRACTOR	10	12.50	125.00
H & P DRILLING	TOOL PUSHER/RIG MGR	CONTRACTOR	1	18.00	18.00
NABORS WELL SERVICES LTD	TRUCKER	CONTRACTOR	4	6.00	24.00
SCHLUMBERGER WELL SERVICES	CMT CREW	CONTRACTOR	5	6.00	30.00
SIERRA ENGINEERING	ONSITE SUPERVISOR	CONTRACTOR	1	12.00	12.00
SMITH SERVICES	OTHER	CONTRACTOR	1	6.00	6.00

Mud Data

Type	Solids, Corr. (%)	LGS (%)	Sand (%)	MBT (lb/bbl)	Chlorides (mg/L)	Calcium (mg/L)	ECD - Manual Entr...
Density (lb/gal)	Vis (s/qt)	T (visc) (°F)	PV Calc (cp)	YP Calc (lb/100...)	Vis 600rpm (rpm)	Vis 300rpm (rpm)	Vis 200rpm
Vis 6rpm	Vis 3rpm	Gel (10s) (lb/10...)	Gel (10m) (lb/1...)	Gel (30m) (lb/1...)	API Filtrate (mL/...)	HTHP Filt (mL/3...)	API Cake (/32")
Electric Stab (V)	Mud Lost (Hole)...	Mud Vol (Act) (b...	Active Mud Vol...	T (fl) (°F)	pH	Pm (mL/mL)	Mf (mL/mL)
							Pf (mL/mL)

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
JSA / GO CARD DISCUSSION	28	
STOP INTERVENTIONS	20	SAFE
STOP INTERVENTIONS	38	UNSAFE

Safety Meetings / Operational Checks

Date	Type	Description

BOP INFO

Date of Last Test	Description	ID (in)	Start Date	End Date	Class	Height (ft)	Pres (psi)	Service	Clear (ft)
8/1/2009	TEST	11	8/1/2009		2		3,000.0	Normal	

Shaker Screens

Deck No.	Make	Model	Screen No.	Description	Scr Sz X	Scr Sz Y

Pump Operations

Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
1	5 1/2	
Pump Number	Liner Size (in)	Volume Per Stroke Override (bbl/stk)
2	5 1/2	

Pump Checks

Make	Model	No.	Depth (ftKB)	Pres (psi)	Slow Spd	Strokes (spm)	Stroke (in)	Eff (%)
					No			

Drill Bit - <Drill Bit?>

Bit Run	Bit Type	Size (in)	Make	Model	Serial Number
Depth In (ftKB)	Depth Out (ftKB)	Depth Drilled (ft)	Drilling Time (hrs)	BHA ROP (ft/hr)	TFA (incl Noz) (in²)
IADC Bit Dull	Nozzles (/32")	RPM (min) (rpm)	RPM (max) (rpm)	WOB (min) (1000lbf)	WOB (max) (1000lbf)

Drill String Components

Item Description	Tally Jts	OD (in)	ID (in)	Len (ft)	Tally Len (ft)	Wt (lbf)	Btm Conn Sz (in)	Top Conn Sz (in)	Btm Thread	Top Thread	Cum Wt (1000lbf)	Cum Len (ft)

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)

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Depart (ft)	Build (°/100ft)	NS (ft)	EW (ft)	Method

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	13 3/8	75.0	16.0	6/26/2009		48.00		
Surface	8 5/8	1,508.0	16.0	7/31/2009		24.00	1.26	100.0



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 1
Report Date: 8/14/2009
Actual Days: 0.33

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN		Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,265.00	Orig KB/RT (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/ID # 10234063	Total Job AFE Amount 447,816.00
Rig RIGLESS, RIGLESS	Wellbore Original Hole		Total Depth (ftKB) 7,110.00	Daily Cost Total 900.00	Cumulative Cost 900.00
Objective					

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

MI RU SCHLUM WL, RU HPPT, NU FRAC STACK. PU LUBRICATOR, PRESSURE TEST TO 3000# HELD. RIH & RUN GYRO, POOH & LD TOOLS. TEST FRAC STACK & CSG TO 4500# HELD. RIH PULL PDC FROM 7048' TO 4000', POOH & LD, RIH W/ CSG GUN CORRELATE, GET ON DEPTH, PRESSURE CSG TO 3500# FIRE GUNS W/ NO PRESSURE LOSS. POOH, PU BAILER W/ 10 GAL 15% ACID, RIH SPOT ACID 6858-6848', POOH & LD BAILER, PRESSURE CSG TO 2100# BROKE, PUMPED 5 BBLS @ 2400# 2 BPM, ISIP 2000# 10 MIN 1750#, FINISH PERF IN 3 RUNS. SIW WILL FRAC ON MONDAY.

24hr Forecast

WILL FRAC ON MONDAY

General Remarks

NO INCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
IRWIN RON	ONSITE SUPERVISOR	

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
07:00	15:00	8.00	PERF	PERF	P	MI RU SCHLUM WL, RU HPPT, NU FRAC STACK. PU LUBRICATOR, PRESSURE TEST TO 3000# HELD. RIH & RUN GYRO, POOH & LD TOOLS. TEST FRAC STACK & CSG TO 4500# HELD. RIH PULL PDC FROM 7048' TO 4000', POOH & LD, RIH W/ CSG GUN CORRELATE, GET ON DEPTH, PRESSURE CSG TO 3500# FIRE GUNS W/ NO PRESSURE LOSS. POOH, PU BAILER W/ 10 GAL 15% ACID, RIH SPOT ACID 6858-6848', POOH & LD BAILER, PRESSURE CSG TO 2100# BROKE, PUMPED 5 BBLS @ 2400# 2 BPM, ISIP 2000# 10 MIN 1750#, FINISH PERF. 6250-6255', 6270-6275', 6308-6313', 6320-6325', 6404-6409', 6455-6460', 6478-6483', 6494-6499', 6512-6517', 6586-6591', 6624-6629', 6648-6653', 6753-6758', 6853-6858' IN 3 RUNS. SIW WILL FRAC ON MONDAY.

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	LOWER CLEARFORK, Original Hole	6,250.0	6,255.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,270.0	6,275.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,308.0	6,313.0	1.0	120	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 1
Report Date: 8/14/2009
Actual Days: 0.33

Job Type: COMPLETIONS - INITIAL COMPLETION

Perforations						
String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (")	Ornt
	LOWER CLEARFORK, Original Hole	6,320.0	6,325.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,404.0	6,409.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,455.0	6,460.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,478.0	6,483.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,494.0	6,499.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,512.0	6,517.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,586.0	6,591.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,624.0	6,629.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,648.0	6,653.0	2.0	120	
	WCAB, Original Hole	6,753.0	6,758.0	2.0	120	
	WCAB, Original Hole	6,853.0	6,858.0	2.0	120	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 2
Report Date: 8/17/2009
Actual Days: 0.77

Job Type: COMPLETIONS - INITIAL COMPLETION

Rig	Wellbore	Total Depth (ftKB)	Daily Cost Total	Cumulative Cost
RIGLESS, RIGLESS	Original Hole	7,110.00	229,300.00	230,200.00

Objective
SCS 090817

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule."

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee.

Pump: 20-150-RXBC-36-5 {0.005} grooved HVR. Space pump per Fiberod recommendation. Run 1"x8' dip tube.

Tubing: RIH w/ SN, 2 jts Enduralloy tbg above SN, 2.875" Polylined tubing to be run up to surface, w/ Ultratube&Enertube on top. Set TAC @ 5522' or ~50' above top perf. SN set at 6911' or ~50 below bottom perf.

Rods: See RodStar design.

Surface Equip: Prior to rig moving in: Set new unit. Lufkin C-640-365-144 running CCW, 9.0 SPM, 144" SL. Requires minimum of 50 hp motor. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

RIG UP FRAC CREW, FRAC THE LOWER CLEARFORK, SET BP AT 6150, PERFORATE UPPER CLEARFORK, FRACK UPPER CLEARFORK, RIG DOWN FRAC CREW

24hr Forecast

TURN OVER TO PULLING UNIT

General Remarks

SUMMARY

FRAC LOWER CLEARFORK AS FOLLOWS

TESTED LINES TO 4875 PSI. LOADED WELL WITH 5 BBLs OF WF110. BROKE DOWN =2161 PSI. SPEARHEAD 3000 GALS. 15% HCL ACID. DISPLACED ACID INTO PERFS W/ 6291 GALS. WATER FRAC 110. ISIP 1030 PSI
FRAC GRADIENT: 0.59 PSI/FT. LEAK OFF: 5 MIN: 762 PSI.

PUMP 17870 GALS. YF125ST-PAD @ 60 BPM @ 1975 PSI
PUMP 2016 GALS. YF125ST-PAD/SLUG W/0.5 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2252 PSI
PUMP 17014 GALS. YF125ST-PAD @ 60 BPM @ 2376 PSI
PUMP 4989.6 GALS. YF125ST-W/ 1 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2323 PSI,
PUMP 10046.4 GALS. YF125ST-W/ 2 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2052 PSI,
PUMP 10012.8 GALS. YF125ST-W/ 3 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2010 PSI,
PUMP 10008.6 GALS. YF125ST-W/ 4 LBM/GAL 20/40 SUPER LC @ 60 BPM @ 1903PSI,
PUMP 13112.4 GALS. YF125ST-W/ 5LBM/GAL 20/40 SUPER LC @ 60 BPM @ 1776 PSI,

FLUSH WITH 5098.8 GALS. WF110 @ 60 BPM @ 2088 PSI

FINAL ISIP= 1366 PSI,
5 MIN= 1173 PSI,
10 MIN=1142 PSI
15 MIN=1112 PSI

20/40 JORDAN 54567 LBS
20/40 SUPER LC 98397 LBS
TOTAL PROPANT PUMPED 152964 LBS
TOTAL CLEAN FLUID 97251GALS.

SET BP AT 6150 AND PERFORATE UPPER CLEARFORK AS FOLLOWS

5572	5577	5	1	60°	5
5664	5669	5	1	60°	5
5685	5690	5	1	60°	5
5728	5733	5	2	60°	10
5746	5751	5	2	60°	10
5766	5771	5	2	60°	10
5810	5815	5	1	60°	5
5900	5905	5	1	60°	5



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 2
Report Date: 8/17/2009
Actual Days: 0.77

Job Type: COMPLETIONS - INITIAL COMPLETION

Responsible Daily Contacts

Contact Name	Title	Phone Work
DAVIS STACY	ONSITE SUPERVISOR	

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
07:00	07:30	0.50	STIM	SFTY	P	PERFORM JSA
07:30	10:30	3.50	STIM	RURD	P	RIG UP SCHLUMBERGER
10:30	11:30	4.50	STIM	STIM	P	FRAC LOWER CLEARFORK AS FOLLOWS TESTED LINES TO 4875 PSI. LOADED WELL WITH 5 BBLS OF WF110. BROKE DOWN =2161 PSI. SPEARHEAD 3000 GALS. 15% HCL ACID. DISPLACED ACID INTO PERFS W/ 6291 GALS. WATER FRAC 110. ISIP 1030 PSI FRAC GRADIENT: 0.59 PSI/FT. LEAK OFF: 5 MIN: 762 PSI. PUMP 17870 GALS. YF125ST-PAD @ 60 BPM @ 1975 PSI PUMP 2016 GALS. YF125ST-PAD/SLUG W/0.5 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2252 PSI PUMP 17014 GALS. YF125ST-PAD @ 60 BPM @ 2376 PSI PUMP 4989.6 GALS. YF125ST-W/ 1 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2323 PSI, PUMP 10046.4 GALS. YF125ST-W/ 2 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2052 PSI, PUMP 10012.8 GALS. YF125ST-W/ 3 LBM/GAL 20/40 JORDAN @ 60 BPM @ 2010 PSI, PUMP 10008.6 GALS. YF125ST-W/ 4 LBM/GAL 20/40 SUPER LC @ 60 BPM @ 1903PSI, PUMP 13112.4 GALS. YF125ST-W/ 5LBM/GAL 20/40 SUPER LC @ 60 BPM @ 1776 PSI, FLUSH WITH 5098.8 GALS. WF110 @ 60 BPM @ 2088 PSI FINAL ISIP= 1366 PSI, 5 MIN= 1173 PSI, 10 MIN=1142 PSI 15 MIN=1112 PSI 20/40 JORDAN 54567 LBS 20/40 SUPER LC 98397 LBS TOTAL PROPANT PUMPED 152964 LBS TOTAL CLEAN FLUID 97251GALS.
11:30	14:30	7.50	PERF	PERF	P	SET BP AT 6150 AND PERFORATE UPPER CLEARFORK AS FOLLOWS 5572 5577 5 1 60° 5 5664 5669 5 1 60° 5 5685 5690 5 1 60° 5 5728 5733 5 2 60° 10 5746 5751 5 2 60° 10 5766 5771 5 2 60° 10 5810 5815 5 1 60° 5 5900 5905 5 1 60° 5 6025 6030 5 1 60° 5 6070 6075 5 1 60° 5



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 2
Report Date: 8/17/2009
Actual Days: 0.77

Job Type: COMPLETIONS - INITIAL COMPLETION

Time Log						Operation
Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	
14:30	15:30	8.50	STIM	STIM	P	FRAC UPPER CLEARFORK AS FOLLOWS BROKE DOWN =1650 PSI. SPEARHEAD 3000 GALS. 15% HCL ACID. DISPLACED ACID INTO PERFS W/ 5323 GALS. WATER FRAC 110. ISIP 1018 PSI FRAC GRADIENT: 0.6 PSI/FT. LEAK OFF: 5 MIN: 971 PSI. PUMP 26002.2 GALS. YF120ST-PAD @ 50 BPM @ 2133 PSI PUMP 7009.8 GALS. YF120ST-W/ 2 LBM/GAL 20/40 JORDAN @ 50 BPM @ 1913 PSI, PUMP 7030.8 GALS. YF120ST-W/ 3 LBM/GAL 20/40 JORDAN @ 50 BPM @ 1899 PSI, PUMP 5716.2 GALS. YF120ST-W/ 4 LBM/GAL 20/40 JORDAN @ 50 BPM @ 1831 PSI, PUMP 7018.2 GALS. YF120ST-W/ 5 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 1743PSI, PUMP 9714.6 GALS. YF120ST-W/ 6 LBM/GAL 20/40 SUPER LC @ 50 BPM @ 1614 PSI, FLUSH WITH 5376 GALS. WF110 @ 50 BPM @ 1570 PSI FINAL ISIP= 1325 PSI, 5 MIN= 1214 PSI, 10 MIN=1170 PSI 15 MIN=1136 PSI 20/40 JORDAN 57099 LBS 20/40 SUPER LC 90598 LBS TOTAL PROPANT PUMPED 147697 LBS TOTAL CLEAN FLUID 76213.2 GALS.

15:30 17:30 10.50 STIM RURD P RIG DOWN SCHLUMBERGER

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Omt
	UPPER CLEARFORK, Original Hole	5,572.0	5,577.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,664.0	5,669.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,685.0	5,690.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,728.0	5,733.0	2.0	60	
	UPPER CLEARFORK, Original Hole	5,746.0	5,751.0	2.0	60	
	UPPER CLEARFORK, Original Hole	5,766.0	5,771.0	2.0	60	
	UPPER CLEARFORK, Original Hole	5,810.0	5,815.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,900.0	5,905.0	1.0	60	
	UPPER CLEARFORK, Original Hole	6,025.0	6,030.0	1.0	60	
	UPPER CLEARFORK, Original Hole	6,070.0	6,075.0	1.0	60	
	LOWER CLEARFORK, Original Hole	6,250.0	6,255.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,270.0	6,275.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,308.0	6,313.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,320.0	6,325.0	1.0	120	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 2
Report Date: 8/17/2009
Actual Days: 0.77

Job Type: COMPLETIONS - INITIAL COMPLETION

Perforations						
String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Ornt
	LOWER CLEARFORK, Original Hole	6,404.0	6,409.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,455.0	6,460.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,478.0	6,483.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,494.0	6,499.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,512.0	6,517.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,586.0	6,591.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,624.0	6,629.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,648.0	6,653.0	2.0	120	
	WCAB, Original Hole	6,753.0	6,758.0	2.0	120	
	WCAB, Original Hole	6,853.0	6,858.0	2.0	120	

Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 3

Report Date: 8/18/2009

Actual Days: 1.27

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info		Field Name		Original Spud Date	
API / UWI	4200340714	Region/Division	PERMIAN	Well Type	Production
State/Province	TEXAS	County	ANDREWS	Well Sub Type	447,816.00
Ground Elevation (ft)	3,265.00	Latitude (DMS)	32° 8' 53.76" N	Development	10234063
Orig KB/RT (ft)	3,281.00	Longitude (DMS)	102° 44' 0.52" W	Network/ID #	10234063
KB-Ground Distance (ft)	16.00	AFE / RFE / Maint.#	WAS.CTX.0228	Daily Cost Total	17,190.00
Wellbore	Original Hole	Total Depth (ftKB)	7,110.00	Cumulative Cost	247,390.00

Objective
SCS 090817

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule."

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee.

Pump: 20-150-RXBC-36-5 (0.005) grooved HVR. Space pump per Fibered recommendation. Run 1"x8" dip tube.

Tubing: RIH w/ SN, 2.875" Endurallloy tbg above SN, 2.875" Polylined tubing to be run up to surface, w/ Ultratube&Enerube on top. Set TAC @ 5522' or -50' above top perf. SN set at 6911' or -50 below bottom perf.

Rods: See RodStar design.

Surface Equip: Prior to rig moving in: Set new unit. Lufkin C-640-365-144 running CCW, 9.0 SPM, 144" SL. Requires minimum of 50 hp motor. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary			
Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)
		Road Condition	Lease Condition

Ops and Depth @ Morning Report

Last 24hr Summary

MOVE RIG TO LOCATION, PJSM. NU FLOWBACK EQUIP, SICP 620#, OPEN TO PIT AND FLOW BACK ~3 HRS WHILE DELIVERING OTHER EQUIP. FLOW BACK 318 BBLs WTR. KILL WELL, ND FRAC VALVE, NU BOP. PU RIH W/ WORKSTRING TO 5470', SIW, SDON. 3317 BLTR.

24hr Forecast

CLEAN OUT TO PBTD.

General Remarks

NO INCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
TEAL RICHARD	ONSITE SUPERVISOR	

Time Log

Start Time	End Time (hrs)	Op Code	Activity	Code	Time P-T-X	Operation
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06:00 08:30 MOVE MOB P CREW TRAVEL, MOVE RIG TO LOCATION, PJSM.
08:30 09:30 MOVE RURD P RU DDP.
09:30 12:30 FLOWT OTHER P SICP 620#, NU FLOWBACK EQUIP, OPEN TO PIT AND FLOW BACK ~3 HRS WHILE DELIVERING OTHER EQUIP.

12:30 14:00 WELC... NUND P KILL WELL, ND FRAC VALVE, NU BOP.
14:00 18:00 RPCO... PULD P PU RIH W/ WORKSTRING TO 5470', SIW, SDON.

Well Fluids		Fluid		Note		Zone	
Time	From (bbl)	To (bbl)	Non-recov (bbl)	From (bbl)	To (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpis	Comment
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Safety Meetings / Operational Checks

Time	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
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Conductor Original Hole 13 3/8 12.715 75.0 59.00
Surface Original Hole 8 5/8 8.097 1,508.0 1,491.97
Production1 Original Hole 5 1/2 4.892 7,095.0 7,079.01



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 4
Report Date: 8/19/2009
Actual Days: 1.79

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI	Region/Division	District	Field Name		Original Spud Date
4200340714	PERMIAN	PERMIAN	EMBAR		7/30/2009
State/Province	County	Latitude (DMS)	Longitude (DMS)	Well Type	Well Sub Type
TEXAS	ANDREWS	32° 8' 53.76" N	102° 44' 0.52" W	Development	Production
Ground Elevation (ft)	Orig KB/RT (ft)	KB-Ground Distance (ft)	AFE / RFE / Maint.#	Network/ID #	Total Job AFE Amount
3,265.00	3,281.00	16.00	WA5.CTX.0228	10234063	447,816.00
Rig		Wellbore	Total Depth (ftKB)	Daily Cost Total	Cumulative Cost
NABORS WELL SERVICE, NABORS WS 679		Original Hole	7,110.00	18,090.00	265,480.00
Objective					
SCS 090817					

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule."

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee.

Pump: 20-150-RXBC-36-5 (0.005) grooved HVR. Space pump per Fiberod recommendation. Run 1"x8' dip tube.

Tubing: RIH w/ SN, 2 jts Enduralloy tbg above SN, 2.875" Polylined tubing to be run up to surface, w/ Ultratube&Enertube on top. Set TAC @ 5522' or ~50' above top perf. SN set at 6911' or ~50 below bottom perf.

Rods: See RodStar design.

Surface Equip: Prior to rig moving in: Set new unit. Lufkin C-640-365-144 running CCW, 9.0 SPM, 144" SL. Requires minimum of 50 hp motor. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

SICP 100#, BLOW DWN TO PIT. RU STRIPPER AND N2 / FOAM UNITS, BREAK CIRC. PU RIH TO 6057', TAGGED FILL. CLEAN OUT TO CIBP @ 6120', DRILL OUT PLUG. CONTINUE IN HOLE TO 6180', CLEAN OUT FILL TO PBTD'. CIRC CLEAN FOR 3 HRS. KILL TBG, PUH ABOVE PERFS. LEFT SWINGING OVERNIGHT. PUMPED 315 BBLs, REC 1175 BBLs, AVG CSG 175#, AVG TBG 1050#, 700 CSF/MIN RATE. SIW, SDON. 2457 BLTR.

24hr Forecast

CIRC 1/2 DAY, COOH LD WORKSTRING.

General Remarks

NO INCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
TEAL RICHARD	ONSITE SUPERVISOR	

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
06:00	07:30	1.50	RPCO...	SFTY	P	CREW TRAVEL, PJSM.
07:30	09:30	3.50	RPCO...	CIRC	P	RU STRIPPER AND N2 / FOAM UNITS, BREAK CIRC.
09:30	17:30	11.50	RPCO...	DRLG	P	PU RIH TO 6057', TAGGED FILL. RU PWR SWIVEL. CLEAN OUT TO CIBP @ 6120', DRILL OUT PLUG. CONTINUE IN HOLE TO 6180', CLEAN OUT FILL TO PBTD'. CIRC CLEAN FOR 3 HRS. KILL TBG, RD SWIVEL.
17:30	18:30	12.50	RPCO...	PULL	P	PUH ABOVE PERFS. LEFT SWINGING OVERNIGHT. SIW, SDON.

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Safety Meetings / Operational Checks

Time	Type	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 5
Report Date: 8/20/2009
Actual Days: 2.25

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN		Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,265.00	Orig KB/RT (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/ID # 10234063	Total Job AFE Amount 447,816.00
Rig NABORS WELL SERVICE, NABORS WS 679		Wellbore Original Hole	Total Depth (ftKB) 7,110.00	Daily Cost Total 18,345.00	Cumulative Cost 285,410.00
Objective SCS 090817					

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule."

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee.

Pump: 20-150-RXBC-36-5 {0.005} grooved HVR. Space pump per Fiberod recommendation. Run 1"x8' dip tube.

Tubing: RIH w/ SN, 2 jts Enduralloy tbg above SN, 2.875" Polylined tubing to be run up to surface, w/ Ultratube&Enertube on top. Set TAC @ 5522' or ~50' above top perf. SN set at 6911' or ~50 below bottom perf.

Rods: See RodStar design.

Surface Equip: Prior to rig moving in: Set new unit. Lufkin C-640-365-144 running CCW, 9.0 SPM, 144" SL. Requires minimum of 50 hp motor. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

BREAK CIRC, RIH TO PBTD, CIRC WELLBORE CLEAN FOR 4 HRS.PUMPED 285 BBLS, REC 975 BBLS, AVG TBG 1000#, AVG CSG 175#, 700 SCF/MIN. KILL TBG, START COOH LD WS. ND STRIPPER HEAD, SIW, SDON.

24hr Forecast

FINISH LD WS, PU RIH W/ PROD.

General Remarks

NO INCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
TEAL RICHARD	ONSITE SUPERVISOR	

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
06:00	07:30	1.50	RPCO...	SFTY	P	CREW TRAVEL, PJSM.
07:30	15:00	9.00	RPCO...	CIRC	P	BREAK CIRC, RIH TO PBTD, CIRC WELLBORE CLEAN FOR 4 HRS.PUMPED 285 BBLS, REC 975 BBLS, AVG TBG 1000#, AVG CSG 175#, 700 SCF/MIN.
15:00	17:00	11.00	RPCO...	PULD	P	KILL TBG, START COOH LD WS. ND STRIPPER HEAD, SIW, SDON.

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone

Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment

Safety Meetings / Operational Checks

Time	Type	Description

Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 6
Report Date: 8/21/2009
Actual Days: 2.63

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN		Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,265.00	Orig KB/RT (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/ID # 10234063	Total Job AFE Amount 447,816.00
Rig NABORS WELL SERVICE, NABORS WS 679		Wellbore Original Hole	Total Depth (ftKB) 7,110.00	Daily Cost Total 66,740.00	Cumulative Cost 352,150.00
Objective SCS 090817					

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule."

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee.

Pump: 20-150-RXBC-36-5 {0.005} grooved HVR. Space pump per Fiberod recommendation. Run 1"x8' dip tube.

Tubing: RIH w/ SN, 2 jts Enduralloy tbg above SN, 2.875" Polylined tubing to be run up to surface, w/ Ultratube&Energatube on top. Set TAC @ 5522' or ~50' above top perf. SN set at 6911' or ~50 below bottom perf.

Rods: See RodStar design.

Surface Equip: Prior to rig moving in: Set new unit. Lufkin C-640-365-144 running CCW, 9.0 SPM, 144" SL. Requires minimum of 50 hp motor. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

TRAVEL TO LOCATION. HELD PJSM. ICP 200 PSI. COOH FINISH LD TBG. MO TBG. MI AND RACK 2 7/8" POLY LINED TBG. TALLY TBG. PU GIH WITH BHA AND DRIFTING EACH JT. LD MACHINE BROKE DOWN. SHUT DOWN FOR WEEKEND.

24hr Forecast

FINISH IN HOLE WITH PRODUCTION TBG.

General Remarks

NO INCIDENTS

Responsible Daily Contacts

Contact Name	Title	Phone Work
WILSON JACK	ONSITE SUPERVISOR	432-368-1464

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
06:00	07:00	1.00	RPEQ...	SFTY	P	TRAVEL TO LOCATION. HELD PJSM. ICP 200 PSI.
07:00	09:30	3.50	RPEQ...	PULD	P	COOH FINISH LD TBG.
09:30	10:30	4.50	RPEQ...	OTHR	T	WAIT ON TBG.
10:30	12:00	6.00	RPEQ...	RURD	P	MO TBG. MI AND RACK 2 7/8" POLY LINED TBG. TALLY TBG.
12:00	15:00	9.00	RPEQ...	PULD	P	PU GIH WITH BHA AND DRIFTING EACH JT. LD MACHINE BROKE DOWN. SHUT DOWN FOR WEEKEND.

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Safety Meetings / Operational Checks

Time	Type	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 1
Report Date: 8/24/2009
Actual Days: 0.21

Job Type: FACILITIES - INSTALL FACILITIES (NEW)

Well Info					
API / UWI	Region/Division	District	Field Name		Original Spud Date
4200340714	PERMIAN	PERMIAN	EMBAR		7/30/2009
State/Province	County	Latitude (DMS)	Longitude (DMS)	Well Type	Well Sub Type
TEXAS	ANDREWS	32° 8' 53.76" N	102° 44' 0.52" W	Development	Production
Ground Elevation (ft)	Orig KB/RT (ft)	KB-Ground Distance (ft)	AFE / RFE / Maint.#	Network/ID #	Total Job AFE Amount
3,265.00	3,281.00	16.00	WA5.CTX.0228	10234065	282,200.00
Rig	Wellbore		Total Depth (ftKB)	Daily Cost Total	Cumulative Cost
	Original Hole		7,110.00	41,200.00	41,200.00

Objective

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

GIH WITH PUMP AND RODS.

24hr Forecast

General Remarks

Responsible Daily Contacts

Contact Name	Title	Phone Work
WILSON JACK	ONSITE SUPERVISOR	432-368-1464

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
07:00	12:00	5.00	RPCO...	TRIP	P	GIH WITH PUMP AND RODS.

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Safety Meetings / Operational Checks

Time	Type	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01

Tubing Strings

Tubing Description	Wellbore	OD (in)	ID (in)	Tension (lbf)	Set Depth (ftKB)	Len (ft)
Tubing - Production	Original Hole	2 7/8	1.995	12,000.0	6,914.0	6,898.14

Perforations

String Perforated	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Omt
	UPPER CLEARFORK, Original Hole	5,572.0	5,577.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,664.0	5,669.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,685.0	5,690.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,728.0	5,733.0	2.0	60	
	UPPER CLEARFORK, Original Hole	5,746.0	5,751.0	2.0	60	
	UPPER CLEARFORK, Original Hole	5,766.0	5,771.0	2.0	60	
	UPPER CLEARFORK, Original Hole	5,810.0	5,815.0	1.0	60	
	UPPER CLEARFORK, Original Hole	5,900.0	5,905.0	1.0	60	
	UPPER CLEARFORK, Original Hole	6,025.0	6,030.0	1.0	60	
	UPPER CLEARFORK, Original Hole	6,070.0	6,075.0	1.0	60	
	LOWER CLEARFORK, Original Hole	6,250.0	6,255.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,270.0	6,275.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,308.0	6,313.0	1.0	120	
	LOWER CLEARFORK, Original Hole	6,320.0	6,325.0	1.0	120	



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 7
Report Date: 8/24/2009
Actual Days: 3.08

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI 4200340714	Region/Division PERMIAN	District PERMIAN		Field Name EMBAR	Original Spud Date 7/30/2009
State/Province TEXAS	County ANDREWS	Latitude (DMS) 32° 8' 53.76" N	Longitude (DMS) 102° 44' 0.52" W	Well Type Development	Well Sub Type Production
Ground Elevation (ft) 3,265.00	Orig KB/RT (ft) 3,281.00	KB-Ground Distance (ft) 16.00	AFE / RFE / Maint.# WA5.CTX.0228	Network/ID # 10234063	Total Job AFE Amount 447,816.00
Rig NABORS WELL SERVICE, NABORS WS 679		Wellbore Original Hole	Total Depth (ftKB) 7,110.00	Daily Cost Total 7,340.00	Cumulative Cost 359,490.00
Objective SCS 090817					

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule."

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee.

Pump: 20-150-RXBC-36-5 {0.005} grooved HVR. Space pump per Fiberod recommendation. Run 1"x8' dip tube.

Tubing: RIH w/ SN, 2 jts Enduralloy tbg above SN, 2.875" Polylined tubing to be run up to surface, w/ Ultratube&Enertube on top. Set TAC @ 5522' or ~50' above top perf. SN set at 6911' or ~50 below bottom perf.

Rods: See RodStar design.

Surface Equip: Prior to rig moving in: Set new unit. Lufkin C-640-365-144 running CCW, 9.0 SPM, 144" SL. Requires minimum of 50 hp motor. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

TRAVEL TO LOCATION. HELD PJSM. ICP 300 PSI. FINISH IN HOLE WITH POLY LINED TBG. DRIFTED EACH JT. ND BOP. FLANGE UP WELLHEAD. MI AND SPOT ROD STRING. PU GIH WITH PUMP, SINKER BARS AND START ON FG RODS. SION.

24hr Forecast

HANG WELL ON.

General Remarks

NO INCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
WILSON JACK	ONSITE SUPERVISOR	432-368-1464

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
06:00	07:00	1.00	RPEQ...	SFTY	P	TRAVEL TO LOCATION. HELD PJSM. ICP 300 PSI.
07:00	12:00	6.00	RPEQ...	PULD	P	FINISH IN HOLE WITH POLY LINED TBG. DRIFTED EACH JT.
12:00	13:00	7.00	RPEQ...	NUND	P	ND BOP. FLANGE UP WELLHEAD.
13:00	14:00	8.00	RPEQ...	RURD	P	MI AND SPOT ROD STRING.
14:00	17:00	11.00	RPEQ...	ALFT	P	PU GIH WITH PUMP, SINKER BARS AND START ON FG RODS. SION.

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Safety Meetings / Operational Checks

Time	Type	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01



Daily Completions and Workovers Report

UNIVERSITY ANDREWS 161

Report # 8
Report Date: 8/25/2009
Actual Days: 3.33

Job Type: COMPLETIONS - INITIAL COMPLETION

Well Info					
API / UWI	Region/Division	District		Field Name	Original Spud Date
4200340714	PERMIAN	PERMIAN		EMBAR	7/30/2009
State/Province	County	Latitude (DMS)	Longitude (DMS)	Well Type	Well Sub Type
TEXAS	ANDREWS	32° 8' 53.76" N	102° 44' 0.52" W	Development	Production
Ground Elevation (ft)	Orig KB/RT (ft)	KB-Ground Distance (ft)	AFE / RFE / Maint.#	Network/ID #	Total Job AFE Amount
3,265.00	3,281.00	16.00	WA5.CTX.0228	10234063	447,816.00
Rig		Wellbore	Total Depth (ftKB)	Daily Cost Total	Cumulative Cost
NABORS WELL SERVICE, NABORS WS 679		Original Hole	7,110.00	2,200.00	361,690.00
Objective					
SCS 090817					

Well Bore: Initial Complete and Equip. Notify Champion Chemical Representative when well is to be put on line so he can arrange to have added to the treating schedule."

Well Service: Set & Test Anchors. Pour 5 gal of CI prior to RIH w/rods and pump. Run equipment as proposed. Install rod bop below pumping tee.

Pump: 20-150-RXBC-36-5 {0.005} grooved HVR. Space pump per Fiberod recommendation. Run 1"x8' dip tube.

Tubing: RIH w/ SN, 2 jts Enduralloy tbg above SN, 2.875" Polylined tubing to be run up to surface, w/ Ultratube&Enertube on top. Set TAC @ 5522' or ~50' above top perf. SN set at 6911' or ~50 below bottom perf.

Rods: See RodStar design.

Surface Equip: Prior to rig moving in: Set new unit. Lufkin C-640-365-144 running CCW, 9.0 SPM, 144" SL. Requires minimum of 50 hp motor. Balance per XBalance w/ 2 OARO weights. Install SAM POC. Update WV, XSPOC, & SAM at start-up. Install rod rotator.

Daily Ops Summary

Tubing Pressure (psi)	Casing Pressure (psi)	Weather	Temperature (°F)	Road Condition	Lease Condition
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Ops and Depth @ Morning Report

Last 24hr Summary

TRAVEL TO LOCATION. HELD PJSM. FINISH IN HOLE WITH FG RODS. HANG WELL ON. LOAD AND TEST TBG TO 500 PSI, TESTED OK. STARTED PUMPING UNIT AND PRESSURED UP TO 600 PSI, PUMPED UP OK. MSO WITNESSED PUMP UP. RDMO DDU. TURN OVER TO GANG TO BUILD WELLHEAD.

24hr Forecast

TURN OVER TO OPERATIONS.

General Remarks

NO INCIDENTS.

Responsible Daily Contacts

Contact Name	Title	Phone Work
WILSON JACK	ONSITE SUPERVISOR	432-368-1464

Time Log

Start Time	End Time	Cum Dur (hrs)	Op Code	Activity Code	Time P-T-X	Operation
06:00	07:00	1.00	RPEQ...	SFTY	P	TRAVEL TO LOCATION. HELD PJSM.
07:00	09:30	3.50	RPEQ...	ALFT	P	FINISH IN HOLE WITH FG RODS.
09:30	10:30	4.50	RPEQ...	HOSO	P	HANG WELL ON. LOAD AND TEST TBG TO 500 PSI, TESTED OK. STARTED PUMPING UNIT AND PRESSURED UP TO 600 PSI, PUMPED UP OK. MSO WITNESSED PUMP UP.
10:30	12:00	6.00	RPEQ...	RURD	P	RDMO DDU. TURN OVER TO GANG TO BUILD WELLHEAD.

Well Fluids

Fluid	Note	To (bbl)	From (bbl)	Non-recov (bbl)	Zone
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Observation Cards (BST, STOP, etc)

Observ Type	No. Rpts	Comment
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Safety Meetings / Operational Checks

Time	Type	Description
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Casing Strings

Casing Description	Wellbore	OD (in)	ID (in)	Tension (kips)	Set Depth (ftKB)	Len (ft)
Conductor	Original Hole	13 3/8	12.715		75.0	59.00
Surface	Original Hole	8 5/8	8.097		1,508.0	1,491.97
Production1	Original Hole	5 1/2	4.892		7,095.0	7,079.01