



UNIVERSITY 10 3606HR
Wellbore Name: OH

WEST UNRESTRICTED
CONFIDENTIAL

Partner Report

Report # 55 Date: 1/18/2014 06:00

District PERMIAN BASIN	County REAGAN	Field Name LIN (WOLFCAMP)	Project Group PB TEXAS EAST	State/Province TX			
Surface Legal Location SEC 36, BLK 10, ULS	API/UWI 4238338405	Latitude (°) 31° 13' 39.638" N	Longitude (°) 101° 33' 15.151" W	Ground Elev... 2,751.00	KB - GL (ft) 25.00	Orig KB Elev (ft) 2,776.00	Tubing Head Elevation (ft)

Jobs

Job Category DRILLING/COMPLETIONS	Authorized Depth (ftKB) 16,397.0	Authorized Depth TVD (ftKB)	API/UWI 4238338405
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Costs

WBS Number 01-09003.01;01-09003.02;01-09003.03;01-09003.04;01-09003.05	Planned Days (days) 58.38	Daily Cost (Cost) \$357,236	Cum To Date (Cost) \$5,998,013	Total WBS+Sup (Cost) \$7,016,950	Job % Complete (%) 100.0
Job Phase	Cum Duration (days)	Field Est this Report (Cost)	Cum Phase Costs (Cost)	Planned Cost (Cost)	Cost Variance (Cost)
DRILLING	32.33	\$0	\$3,057,067	\$2,810,000	(\$247,067)
COMPLETION	22.54	\$357,236	\$2,940,946	\$4,069,974	\$1,129,028

Daily Operations

Rig					
Drilled Last 24 Hours (ft) 0.00	End Depth (ftKB) 16,376.0	End Depth (TVD) (ftKB) 8,089.1	DFS (days) 118.31	Report Number 55	Report End Date 1/18/2014
Last Casing String PRODUCTION 1, 16,376.0ftKB					
Status at 6 AM FRAC STG 19			24 Hour Forecast FRAC WELL PER PROCEDURE		

Time Log

Start Time	End Time	Dur (hr)	Operation	Ops Status	Description
06:00	07:30	1.50	STIM	ACTIVE	STG 19 RU HES, MK WT, HES WHIT TO FRAC HORIZONTAL PERFORATIONS 11,820'-12,002' DESIGN: 251,800 GALS SLICKWATER, 99,750 LBS 100 MESH AND 127,750 LBS 40/70 OTTAWA SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,448 PSI BREAK DOWN: 3880 PSI AVG PRESS 5,365 PSI / AVG RATE 82 BPM MAX PRESS 5,781 PSI / MAX RATE 82 BPM ISIP: 3,220 PSI / FG .86 PSI/FT USED 1,500 GALS 15% HCL ACID USED 4,838 BBLS CLEAN USED 673 BBLS PRODUCED TOTAL LOAD: 5,511 BBLS USED 90,853 LBS 100 MESH USED 107,735 LBS 40/70 OTTAWA SAND PUMPED AS DESIGNED
07:30	10:30	3.00	PERF	ACTIVE	STG 20 RU CDK WIRELINE TO PERF. PUMPED DOWN 4 EACH 3 3/8" GUNS AND HALLIBURTON BALL DROP CFP TO 11,790' AND SET. PERF STAGE 20: 11,580-82' 11,640-42' 11,700-02' 11,760-62' W/ 6 SPF, 0.42" EHD, 60° PHASED, 25 GRAM CHG (6 JSPF), 48 HOLES TOTAL. POOH W/ GUNS AND SETTING TOOL. ALL SHOTS FIRED. CREST PUMPDOWN BBLS---179 BBLS
10:30	12:00	1.50	STIM	ACTIVE	STG 20 RU HES, MK WT, HES WHIT TO FRAC HORIZONTAL PERFORATIONS 11,580'-11,762' DESIGN: 251,800 GALS SLICKWATER, 99,750 LBS 100 MESH AND 127,750 LBS 40/70 OTTAWA SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,499 PSI BREAK DOWN: 4,308 PSI AVG PRESS 5,579 PSI / AVG RATE 82 BPM MAX PRESS 6,709 PSI / MAX RATE 82 BPM ISIP: 2,945 PSI / FG .82 PSI/FT USED 1,500 GALS 15% HCL ACID USED 4,674 BBLS CLEAN USED 1,003 BBLS PRODUCED TOTAL LOAD: 5,677 BBLS USED 91,470 LBS 100 MESH USED 108,560 LBS 40/70 OTTAWA SAND PUMPED AS DESIGNED



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Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Ground Elev...	KB - GL (ft)	Orig KB Elev (ft)	Tubing Head Elevation (ft)
SEC 36, BLK 10, ULS	4238338405	31° 13' 39.638" N	101° 33' 15.151" W	2,751.00	25.00	2,776.00	

Time Log

Start Time	End Time	Dur (hr)	Operation	Ops Status	Description
12:00	15:00	3.00	PERF	ACTIVE	STG 21 RU CDK WIRELINE TO PERF. PUMPED DOWN 4 EACH 3 3/8" GUNS AND HALLIBURTON BALL DROP CFP TO 11,550' AND SET. PERF STAGE 21: 11,340-42' 11,400-02' 11,460-62' 11,520-22' W/ 6 SPF, 0.42" EHD, 60° PHASED, 25 GRAM CHG (6 JSPF), 48 HOLES TOTAL. POOH W/ GUNS AND SETTING TOOL. ALL SHOTS FIRED. CREST PUMPDOWN BBLS---219 BBLS
15:00	18:00	3.00	SHUTDOWN	ACTIVE	(1500 HRS) AWAIT COMPLETION ON THE 5H; (1700) AWAIT HES FOR PUMP REPAIRS
18:00	19:30	1.50	STIM	ACTIVE	STG 21 RU HES, MK WT, HES WHIT TO FRAC HORIZONTAL PERFORATIONS 11,820'-12,002' DESIGN: 251,800 GALS SLICKWATER, 99,750 LBS 100 MESH AND 127,750 LBS 40/70 OTTAWA SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2400 PSI BREAK DOWN: 3956 PSI AVG PRESS 5813 PSI / AVG RATE 78 BPM MAX PRESS 6778 PSI / MAX RATE 79 BPM ISIP: 3423 PSI / FG .886 PSI/FT USED 1,500 GALS 15% HCL ACID USED 3475 BBLS CLEAN USED 1280 BBLS PRODUCED TOTAL LOAD: 4755 BBLS USED 89720 LBS 100 MESH USED 62770 LBS 40/70 OTTAWA SAND ***DIDNT PUMP AS DESIGN PER CONSULTANT DECISION TO CUT SAND ON ABURT PSI CHANGE. MAX BH CONC. ACHIEVED 1.5 PPG ON 40/70***
19:30	21:30	2.00	PERF	ACTIVE	STG 22 RU CDK WIRELINE TO PERF. PUMPED DOWN 4 EACH 3 3/8" GUNS AND HALLIBURTON BALL DROP CFP TO 11,310' AND SET. PERF STAGE 22: 11,100-02' 11,160-62' 11,220-22' 11,280-82' W/ 6 SPF, 0.42" EHD, 60° PHASED, 25 GRAM CHG (6 JSPF), 48 HOLES TOTAL. POOH W/ GUNS AND SETTING TOOL. ALL SHOTS FIRED. CREST PUMPDOWN BBLS---217 BBLS
21:30	23:30	2.00	SHUTDOWN	ACTIVE	AWAIT COMPLETION ON 5H HES TO REPAIR FRAC PUMPS FOR HHP ("1 HR 15 MIN")
23:30	01:00	1.50	STIM	ACTIVE	STG 22 RU HES, MK WT, HES WHIT TO FRAC HORIZONTAL PERFORATIONS 11,100-11282' DESIGN: 251,800 GALS SLICKWATER, 99,750 LBS 100 MESH AND 127,750 LBS 40/70 OTTAWA SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2448 PSI BREAK DOWN: 4564 PSI AVG PRESS 6041 PSI / AVG RATE 80 BPM MAX PRESS 6352 PSI / MAX RATE 81 BPM ISIP: 3215 PSI / FG .86 PSI/FT USED 1,500 GALS 15% HCL ACID USED 3773 BBLS CLEAN USED 1549 BBLS PRODUCED TOTAL LOAD: 5322 BBLS USED 92496 LBS 100 MESH USED 112080 LBS 40/70 OTTAWA SAND PUMPED AS DESIGNED



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Time Log

Start Time	End Time	Dur (hr)	Operation	Ops Status	Description
01:00	03:00	2.00	PERF	ACTIVE	STG 23 RU CDK WIRELINE TO PERF. PUMPED DOWN 4 EACH 3 3/8" GUNS AND HALLIBURTON BALL DROP CFP TO 11,070' AND SET. PERF STAGE 23: 10,860-62' 10,920-22' 10,980-82' 11,040-42' W/ 6 SPF, 0.42" EHD, 60° PHASED, 25 GRAM CHG (6 JSPF), 48 HOLES TOTAL. POOH W/ GUNS AND SETTING TOOL. ALL SHOTS FIRED. CREST PUMPDOWN BBLS---170 BBLS
03:00	06:00	3.00	STIM	ACTIVE	STG 23 RU HES, MK WT, HES WHIT TO FRAC HORIZONTAL PERFORATIONS 11,820'-12,002' DESIGN: 251,800 GALS SLICKWATER, 99,750 LBS 100 MESH AND 127,750 LBS 40/70 OTTAWA SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2500 PSI BREAK DOWN: 4781PSI AVG PRESS XXXX PSI / AVG RATE XX BPM MAX PRESS XXXX PSI / MAX RATE XX BPM ISIP: XXXX PSI / FG XXX PSI/FT USED 1,500 GALS 15% HCL ACID USED XXXX BBLS CLEAN USED XXX BBLS PRODUCED TOTAL LOAD: XXXX BBLS USED 89475 LBS 100 MESH USED XXXXXX LBS 40/70 OTTAWA SAND PUMPED AS DESIGNED