

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 06 2015

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Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: March 26, 2015

Attention: Chan Tysor

15-40761

Re: Occidental Permian Ltd
Well: Osage 18 Fee C Com #1H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jaime Rivera MWD Supervisor	1H	760' MD 6810' MD	4/24/2014 5/1/2014	Measurement While Drilling

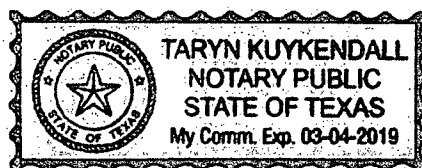
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 18th day of April, 2015, before me a notary public, the undersigned officer, personally appeared Jesus Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public





Weatherford International Ltd.

WFT Plan Report X and Y's



Weatherford

Company: Occidental Permian Ltd. Date: 5/29/2014 Time: 13:00:04 Page: 1
Field: Eddy Co. NM (Nad 27) Co-ordinate(NE) Reference: Well: Osage 18 Fee C Com #1H Grid North
Site: Osage 18 Fee C Com #1H Vertical (TVD) Reference: SITE 3592.9
Well: Osage 18 Fee C Com #1H Section (VS) Reference: Well (0.00N,0.00E,0.91Az)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Date Composed:
Principal: Version:
Tied-to:

Site: Osage 18 Fee C Com #1H

Site Position: Northing: 570237.00 ft Latitude: 32 34 3.127 N
From: Map Easting: 439519.10 ft Longitude: 104 31 46.758 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3576.40 ft Grid Convergence: -0.11 deg

Well: Osage 18 Fee C Com #1H Slot Name:
Well Position: +N/S 0.00 ft Northing: 570237.00 ft Latitude: 32 34 3.127 N
+E/W 0.00 ft Easting: 439519.10 ft Longitude: 104 31 46.758 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3592.90 ft Tie-on Depth: 0.00 ft
Magnetic Data: 12/18/2013 Above System Datum: Mean Sea Level
Field Strength: 48491 nT Declination: 7.74 deg
Vertical Section: Depth From (TVD) +N/S +E/W Mag Dip Angle: 60.28 deg
ft ft ft deg
0.00 0.00 0.00 0.91

Plan Section Information

MD	Incl	Azim	TVD	+N/S	+E/W	DLS	Build	Turn	TFO	Target

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	570237.00	439519.10	
109.36	0.75	282.18	109.36	0.15	-0.70	0.14	0.69	570237.15	439518.40	
199.71	0.46	271.90	199.70	0.29	-1.64	0.26	0.34	570237.29	439517.46	
288.31	0.43	277.52	288.30	0.34	-2.33	0.31	0.06	570237.34	439516.77	
374.92	0.67	280.39	374.91	0.48	-3.15	0.43	0.28	570237.48	439515.95	
460.36	0.66	282.47	460.34	0.67	-4.12	0.61	0.03	570237.67	439514.98	
543.34	0.58	292.10	543.31	0.93	-4.97	0.86	0.16	570237.93	439514.13	
630.00	0.71	303.58	629.97	1.40	-5.83	1.30	0.21	570238.40	439513.27	
760.00	0.81	315.65	759.96	2.50	-7.14	2.39	0.14	570239.50	439511.96	
895.00	0.92	312.95	894.94	3.92	-8.60	3.78	0.09	570240.92	439510.50	
1030.00	0.77	312.99	1029.93	5.28	-10.06	5.12	0.11	570242.28	439509.04	
1165.00	0.83	308.63	1164.91	6.51	-11.48	6.32	0.06	570243.51	439507.62	
1300.00	0.92	310.17	1299.90	7.82	-13.08	7.61	0.07	570244.82	439506.02	
1435.00	0.87	306.95	1434.88	9.13	-14.72	8.90	0.05	570246.13	439504.38	
1570.00	0.92	304.66	1569.87	10.36	-16.43	10.10	0.05	570247.36	439502.67	
1704.00	0.88	307.76	1703.85	11.60	-18.13	11.32	0.05	570248.60	439500.97	
1839.00	0.89	305.84	1838.83	12.85	-19.80	12.54	0.02	570249.85	439499.30	
1974.00	0.82	305.09	1973.82	14.02	-21.44	13.68	0.05	570251.02	439497.66	
2019.00	0.93	302.40	2018.81	14.40	-22.01	14.05	0.26	570251.40	439497.09	
2064.00	1.55	344.71	2063.80	15.19	-22.48	14.83	2.37	570252.19	439496.62	
2108.00	6.03	0.43	2107.70	18.07	-22.62	17.71	10.36	570255.07	439496.48	
2153.00	11.38	1.17	2152.16	24.88	-22.51	24.52	11.89	570261.88	439496.59	
2198.00	16.73	1.00	2195.80	35.80	-22.31	35.44	11.89	570272.80	439496.79	
2243.00	22.03	1.96	2238.23	50.72	-21.91	50.37	11.80	570287.72	439497.19	
2287.00	26.86	4.03	2278.28	68.90	-20.93	68.56	11.15	570305.90	439498.17	



Weatherford International Ltd.

WFT Plan Report X and Y's



Weatherford

Company:	Occidental Permian Ltd	Date:	5/29/2014	Time:	13:00:04	Page:	2
Field:	Eddy Co. NM (Nad:27)	Co-ordinate(NE) Reference:	Well: Osage 18 Fee C. Com #1H	Grid North:			
Site:	Osage 18 Fee C. Com #1H	Vertical (TVD) Reference:	SITE 3592.9				
Well:	Osage 18 Fee C. Com #1H	Section (VS) Reference:	Well (0.00N 0.00E 0.91Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
2332.00	31.64	6.02	2317.53	90.79	-18.97	90.48	10.84	570327.79	439500.13	
2377.00	36.57	7.00	2354.78	115.85	-16.10	115.58	11.02	570352.85	439503.00	
2422.00	41.02	5.58	2389.84	143.87	-13.03	143.64	10.08	570380.87	439506.07	
2467.00	46.40	5.09	2422.36	174.82	-10.15	174.63	11.98	570411.82	439508.95	
2511.00	51.54	4.18	2451.24	207.89	-7.47	207.74	11.79	570444.89	439511.63	
2556.00	57.08	3.52	2477.48	244.34	-5.03	244.23	12.37	570481.34	439514.07	
2601.00	62.69	1.80	2500.05	283.21	-3.24	283.12	12.90	570520.21	439515.86	
2646.00	68.38	1.39	2518.68	324.13	-2.10	324.06	12.67	570561.13	439517.00	
2691.00	74.35	1.38	2533.05	366.74	-1.07	366.68	13.27	570603.74	439518.03	
2736.00	79.80	1.30	2543.11	410.57	-0.05	410.52	12.11	570647.57	439519.05	
2781.00	86.11	1.09	2548.63	455.20	0.88	455.16	14.03	570692.20	439519.98	
2824.00	89.47	1.45	2550.29	498.15	1.83	498.12	7.86	570735.15	439520.93	
2914.00	91.98	1.98	2549.15	588.10	4.53	588.10	2.85	570825.10	439523.63	
3004.00	92.38	2.77	2545.72	677.96	8.25	678.00	0.98	570914.96	439527.35	
3094.00	90.84	2.43	2543.19	767.82	12.33	767.92	1.75	571004.82	439531.43	
3184.00	90.16	1.29	2542.41	857.77	15.26	857.91	1.47	571094.77	439534.36	
3274.00	90.19	1.40	2542.13	947.75	17.37	947.90	0.13	571184.75	439536.47	
3364.00	90.40	359.82	2541.67	1037.74	18.33	1037.90	1.77	571274.74	439537.43	
3454.00	90.67	0.10	2540.83	1127.73	18.26	1127.88	0.43	571364.73	439537.36	
3544.00	91.12	359.91	2539.43	1217.72	18.27	1217.86	0.54	571454.72	439537.37	
3634.00	91.00	359.85	2537.76	1307.71	18.08	1307.83	0.15	571544.71	439537.18	
3724.00	90.88	359.80	2536.28	1397.69	17.81	1397.80	0.14	571634.69	439536.91	
3814.00	90.79	359.44	2534.97	1487.68	17.21	1487.77	0.41	571724.68	439536.31	
3904.00	90.65	359.27	2533.84	1577.67	16.20	1577.73	0.24	571814.67	439535.30	
3994.00	90.25	0.72	2533.13	1667.66	16.19	1667.71	1.67	571904.66	439535.29	
4084.00	90.21	0.60	2532.77	1757.66	17.23	1757.71	0.14	571994.66	439536.33	
4174.00	89.65	359.81	2532.88	1847.66	17.55	1847.70	1.08	572084.66	439536.65	
4264.00	89.35	0.66	2533.67	1937.65	17.92	1937.69	1.00	572174.65	439537.02	
4354.00	89.14	0.44	2534.85	2027.64	18.78	2027.68	0.34	572264.64	439537.88	
4444.00	90.09	1.05	2535.46	2117.63	19.95	2117.68	1.25	572354.63	439539.05	
4534.00	89.58	0.79	2535.72	2207.61	21.40	2207.68	0.64	572444.61	439540.50	
4624.00	89.16	0.49	2536.71	2297.60	22.40	2297.67	0.57	572534.60	439541.50	
4714.00	89.26	0.58	2537.95	2387.59	23.24	2387.66	0.15	572624.59	439542.34	
4804.00	89.02	0.46	2539.30	2477.58	24.06	2477.65	0.30	572714.58	439543.16	
4895.00	88.84	0.89	2541.00	2568.55	25.13	2568.63	0.51	572805.55	439544.23	
4986.00	90.54	1.10	2541.49	2659.54	26.71	2659.62	1.88	572896.54	439545.81	
5077.00	90.63	1.54	2540.56	2750.51	28.81	2750.62	0.49	572987.51	439547.91	
5167.00	90.16	2.06	2539.94	2840.46	31.63	2840.60	0.78	573077.46	439550.73	
5272.00	89.81	2.82	2539.97	2945.36	36.10	2945.57	0.80	573182.36	439555.20	
5362.00	90.42	1.89	2539.79	3035.29	39.80	3035.54	1.24	573272.29	439558.90	
5452.00	91.93	0.75	2537.94	3125.24	41.88	3125.51	2.10	573362.24	439560.98	
5542.00	91.91	0.43	2534.93	3215.18	42.80	3215.46	0.36	573452.18	439561.90	
5632.00	91.54	0.25	2532.22	3305.14	43.34	3305.41	0.46	573542.14	439562.44	
5722.00	91.10	0.29	2530.15	3395.12	43.76	3395.36	0.49	573632.12	439562.66	
5812.00	90.96	359.65	2528.53	3485.10	43.71	3485.36	0.73	573722.10	439562.81	
5901.00	91.05	0.63	2526.97	3574.09	43.93	3574.33	1.11	573811.09	439563.03	
5991.00	90.53	1.09	2525.73	3664.07	45.28	3664.32	0.77	573901.07	439564.38	
6081.00	90.09	0.50	2525.24	3754.06	46.53	3754.32	0.82	573991.06	439565.63	
6171.00	91.49	1.52	2524.00	3844.03	48.12	3844.31	1.92	574081.03	439567.22	
6261.00	91.56	1.71	2521.60	3933.96	50.65	3934.27	0.22	574170.96	439569.75	
6351.00	91.35	2.05	2519.32	4023.89	53.60	4024.23	0.44	574260.89	439572.70	
6441.00	90.96	2.35	2517.50	4113.80	57.06	4114.19	0.55	574350.80	439576.16	
6530.00	90.11	2.36	2516.67	4202.72	60.71	4203.15	0.96	574439.72	439579.81	



Weatherford International Ltd.

WFT Plan Report X and Y's



Weatherford

Company:	Occidental Permian Ltd.	Date:	5/29/2014	Time:	13:00:04	Page:	3
Field:	Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Osage 18 Fee C Com #1H Grid North				
Site:	Osage 18 Fee C Com #1H	Vertical (TVD) Reference:	SITE 3592.9				
Well:	Osage 18 Fee C Com #1H	Section (VS) Reference:	Well (0.00N 0.00E 0.91Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6620.00	90.56	1.61	2516.15	4292.66	63.83	4293.14	0.97	574529.66	439582.93	
6710.00	90.14	1.33	2515.60	4382.63	66.14	4383.13	0.56	574619.63	439585.24	
6810.00	90.02	0.84	2515.46	4482.61	68.03	4483.13	0.50	574719.61	439587.13	Last WFT Svy
6865.00	90.02	0.84	2515.44	4537.61	68.84	4538.13	0.00	574774.61	439587.94	Proj to Bit

Targets

Name	Description Dip.	Dir.	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude Deg. Min. Sec.	Longitude Deg. Min. Sec.
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Casing Points

MD	TVD	Diameter	Hole Size	Name
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Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction
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Annotation

MD ft	TVD ft	
630.00	629.97	TieOn Gyro.SDI
760.00	759.96	First WFT Svy
6810.00	2515.46	Last WFT Svy
6865.00	2515.44	Proj to Bit



Osage 18 Fee C Com 1H Eddy Co., NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2072.56	0.00	0.00	2072.56	0.00	0.00	0.00	0.00	0.00	
3	2827.27	90.56	0.91	2550.00	482.11	7.67	12.00	0.91	482.17	
4	6883.97	90.56	0.91	2510.00	4538.10	72.20	0.00	0.00	4538.67	PBHL

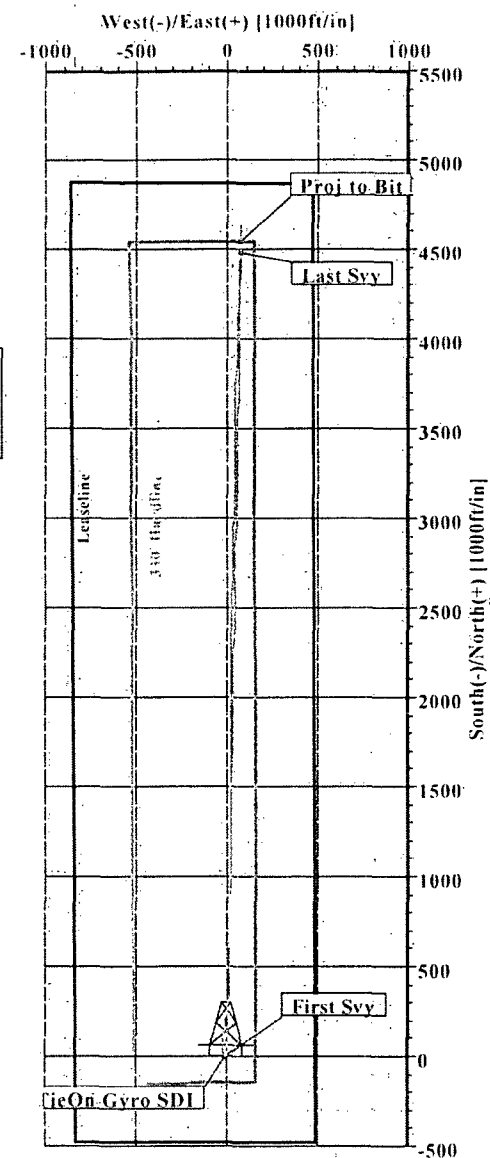
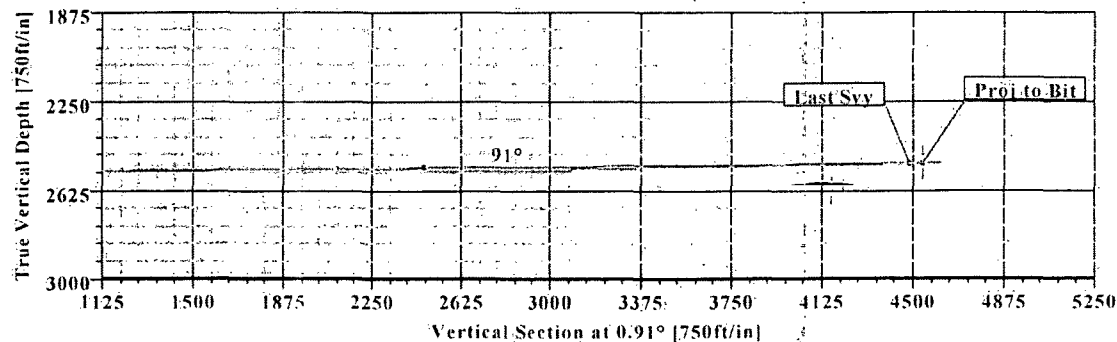
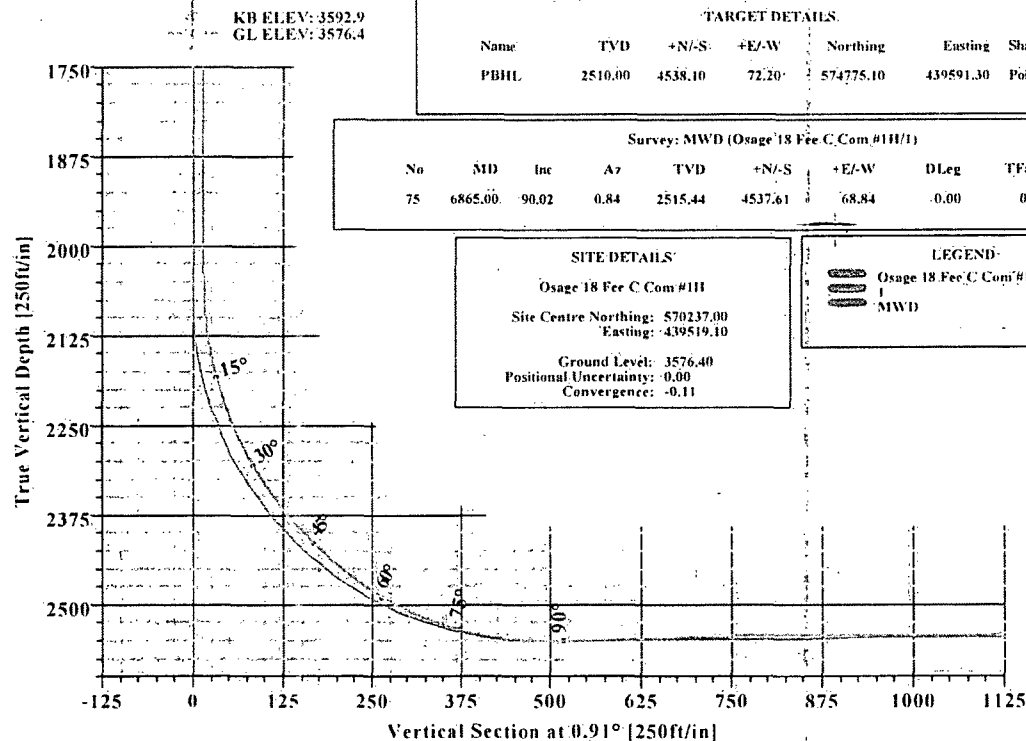
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Osage 18 Fee C Com #1H	0.00	0.00	570237.00	439519.10	32°34'03.127N	104°31'46.758W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	2510.00	4538.10	72.20	574775.10	439591.30	Point

Survey: MWD (Osage 18 Fee C Com #1H/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
75	6865.00	90.02	0.84	2515.44	4537.61	68.84	0.00	0.00	4538.13	

SITE DETAILS	
Osage 18 Fee C Com #1H	
Site Centre Northing: 570237.00	
Easting: 439519.10	
Ground Level: 3576.40	
Positional Uncertainty: 0.00	
Convergence: -0.11	

LEGEND	
	Osage 18 Fee C Com #1H, 1 Plan #5
	MWD



Weatherford

Survey: MWD (Osage 18 Fee C Com #1H/1)

Created By: Michael Dill

Date: 5/1/2014