

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 17 2014



Weatherford®

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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: November 3, 2014

30-015-42275

Attention: Ricardo Viloria

Re: Occidental Permian Ltd
Well: FNR 35 #1
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:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Clete Bayer	1H	593 MD	7-13-2014	Measurement
MWD Supervisor		12150' MD	7-31-2014	While Drilling

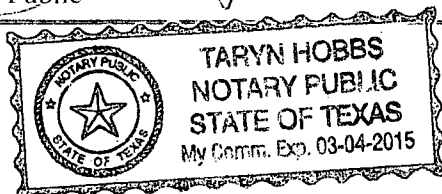
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 24th day of November, 2014, 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-whereof, I hereunto set my hand and official seal.

Notary Public





Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.			Date: 8/1/2014			Time: 07:57:33			Page: 1		
Field: Eddy Co, NM (Nad 27)			Co-ordinate(NE) Reference: Well: FNR 35 Fed #1H, Grid North								
Site: FNR 35 Fed #1H			Vertical (TVD) Reference: SITE 3416.7								
Well: FNR 35 Fed #1H			Section (VS) Reference: Well (0.00N,0.00E,89.67Azi)								
Wellpath: 1			Survey Calculation Method: Minimum Curvature						Db: Sybase		

Survey:				Start Date:			
Company:				Engineer:			
Tool:				Tied-to:			

Site: FNR 35 Fed #1H							
Site Position:		Northing: 461076.20 ft		Latitude: 32 16 0.205 N			
From: Map		Easting: 646699.90 ft		Longitude: 103 51 31.403 W			
Position Uncertainty: 0.00 ft				North Reference: Grid			
Ground Level: 3391.70 ft				Grid Convergence: 0.25 deg			

Well: FNR 35 Fed #1H				Slot Name:			
Well Position: +N/-S 0.00 ft		Northing: 461076.20 ft		Latitude: 32 16 0.205 N			
+E/-W 0.00 ft		Easting: 646699.90 ft		Longitude: 103 51 31.403 W			
Position Uncertainty: 0.00 ft							

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE		Tie-on Depth: 0.00 ft	
Magnetic Data: 6/25/2014		Above System Datum: Mean Sea Level	
Field Strength: 48333 nT		Declination: 7.35 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 60.10 deg	
ft		ft	
0.00		0.00	
0.00		0.00	
0.00		89.67	

Survey Program for Definitive Wellpath					
Date: 8/1/2014		Validated: No		Version: 0	
Actual From To		Survey		Toolcode Tool Name	
ft ft					
0.00 463.00		Gyro (0.00-463.00)		NS-GYRO-MS	
463.00 12220.00		MWD (463.00-12220.00)		MWD	
				North sensing gyrocompassing m	
				MWD - Standard	

Survey										
MD	Incl	Azim	TVD	N/S	E/W	DLS	VS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	461076.20	646699.90	
34.00	0.44	262.12	34.00	-0.02	-0.13	1.29	-0.13	461076.18	646699.77	
125.00	0.56	138.45	125.00	-0.40	-0.18	0.97	-0.18	461075.80	646699.72	
218.00	0.63	220.22	217.99	-1.13	-0.21	0.84	-0.22	461075.07	646699.69	
309.00	0.49	217.06	308.99	-1.82	-0.77	0.16	-0.78	461074.38	646699.13	
401.00	0.44	185.49	400.99	-2.49	-1.04	0.28	-1.05	461073.71	646698.86	
463.00	0.47	189.55	462.99	-2.97	-1.10	0.07	-1.12	461073.23	646698.80	TieOn MS Gyro
593.00	0.35	221.15	592.98	-3.80	-1.45	0.19	-1.47	461072.40	646698.45	First WFT MWD
777.00	0.49	242.61	776.98	-4.58	-2.52	0.11	-2.55	461071.62	646697.38	
965.00	0.50	226.50	964.97	-5.52	-3.83	0.07	-3.86	461070.68	646696.07	
1154.00	0.47	192.57	1153.96	-6.84	-4.60	0.15	-4.64	461069.36	646695.30	
1343.00	0.56	173.81	1342.96	-8.52	-4.67	0.10	-4.71	461067.68	646695.23	
1532.00	0.69	154.36	1531.95	-10.46	-4.07	0.13	-4.13	461065.74	646695.83	
1721.00	1.07	150.95	1720.92	-13.03	-2.72	0.20	-2.80	461063.17	646697.18	
1910.00	1.48	157.19	1909.88	-16.82	-0.92	0.23	-1.02	461059.38	646698.98	
2099.00	1.57	174.53	2098.81	-21.65	0.27	0.25	0.15	461054.55	646700.17	
2193.00	1.24	177.61	2192.78	-23.95	0.44	0.36	0.30	461052.25	646700.34	
2287.00	0.41	199.47	2286.77	-25.28	0.37	0.93	0.22	461050.92	646700.27	
2382.00	0.16	269.40	2381.77	-25.60	0.12	0.41	-0.02	461050.60	646700.02	
2476.00	0.51	334.60	2475.77	-25.23	-0.19	0.50	-0.33	461050.97	646699.71	
2571.00	0.70	328.50	2570.76	-24.35	-0.67	0.21	-0.81	461051.85	646699.23	
2665.00	0.66	325.10	2664.76	-23.42	-1.28	0.06	-1.42	461052.78	646698.62	
2760.00	0.53	317.96	2759.75	-22.64	-1.89	0.16	-2.02	461053.56	646698.01	
2854.00	0.40	291.79	2853.75	-22.20	-2.49	0.26	-2.61	461054.00	646697.41	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

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Site: FNR 35 Fed #1H	Vertical (TVD) Reference:	SITE 3416.7	
Well: FNR 35 Fed #1H	Section (VS) Reference:	Well (0.00N, 0.00E, 89.67Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2948.00	0.50	338.43	2947.75	-21.69	-2.94	0.39	-3.07	461054.51	646696.96	
3043.00	0.70	321.39	3042.74	-20.86	-3.46	0.28	-3.58	461055.34	646696.44	
3141.00	0.70	314.48	3140.73	-19.97	-4.26	0.09	-4.37	461056.23	646695.64	
3236.00	0.14	234.31	3235.73	-19.63	-4.77	0.73	-4.88	461056.57	646695.13	
3330.00	0.58	168.93	3329.73	-20.16	-4.77	0.57	-4.88	461056.04	646695.13	
3425.00	1.96	143.29	3424.70	-21.94	-3.70	1.54	-3.83	461054.26	646696.20	
3519.00	2.08	142.55	3518.65	-24.58	-1.71	0.13	-1.85	461051.62	646698.19	
3614.00	1.68	127.21	3613.59	-26.79	0.45	0.67	0.30	461049.41	646700.35	
3708.00	1.64	112.59	3707.56	-28.14	2.79	0.45	2.63	461048.06	646702.69	
3803.00	1.20	75.98	3802.53	-28.42	5.01	1.04	4.85	461047.78	646704.91	
3897.00	0.90	67.55	3896.51	-27.90	6.65	0.36	6.49	461048.30	646706.55	
4035.00	1.00	64.67	4034.49	-26.97	8.74	0.08	8.58	461049.23	646708.64	
4130.00	3.25	26.86	4129.42	-24.22	10.70	2.67	10.57	461051.98	646710.60	
4224.00	3.71	25.12	4223.25	-19.09	13.20	0.50	13.09	461057.11	646713.10	
4318.00	2.38	19.97	4317.12	-14.50	15.16	1.44	15.07	461061.70	646715.06	
4413.00	2.42	12.80	4412.03	-10.69	16.28	0.32	16.21	461065.51	646716.18	
4507.00	2.38	10.25	4505.95	-6.83	17.06	0.12	17.02	461069.37	646716.96	
4602.00	2.33	11.21	4600.87	-3.00	17.79	0.07	17.77	461073.20	646717.69	
4696.00	2.29	9.52	4694.79	0.73	18.47	0.08	18.47	461076.93	646718.37	
4791.00	1.09	359.44	4789.75	3.51	18.78	1.30	18.80	461079.71	646718.68	
4885.00	0.77	355.14	4883.74	5.03	18.71	0.35	18.74	461081.23	646718.61	
4980.00	0.77	350.62	4978.73	6.30	18.56	0.06	18.59	461082.50	646718.46	
5075.00	0.93	351.75	5073.72	7.69	18.34	0.17	18.38	461083.89	646718.24	
5169.00	0.93	335.77	5167.71	9.14	17.92	0.28	17.97	461085.34	646717.82	
5265.00	1.09	336.52	5263.69	10.69	17.24	0.17	17.30	461086.89	646717.14	
5359.00	1.20	332.38	5357.67	12.38	16.42	0.15	16.49	461088.58	646716.32	
5454.00	1.32	336.93	5452.65	14.27	15.53	0.16	15.61	461090.47	646715.43	
5548.00	1.11	338.17	5546.63	16.11	14.77	0.23	14.86	461092.31	646714.67	
5643.00	1.29	333.24	5641.61	17.92	13.95	0.22	14.05	461094.12	646713.85	
5737.00	1.22	333.98	5735.59	19.76	13.03	0.08	13.14	461095.96	646712.93	
5832.00	1.48	338.85	5830.56	21.81	12.14	0.30	12.27	461098.01	646712.04	
5926.00	1.49	336.34	5924.53	24.07	11.22	0.07	11.35	461100.27	646711.12	
6021.00	1.21	341.15	6019.50	26.15	10.40	0.32	10.55	461102.35	646710.30	
6115.00	1.16	336.99	6113.48	27.96	9.70	0.11	9.86	461104.16	646709.60	
6210.00	1.33	40.65	6208.46	29.68	10.05	1.39	10.22	461105.88	646709.95	
6304.00	1.40	53.70	6302.44	31.19	11.68	0.34	11.86	461107.39	646711.58	
6399.00	1.14	124.17	6397.42	31.35	13.40	1.56	13.58	461107.55	646713.30	
6494.00	1.77	154.18	6492.39	29.50	14.82	1.02	14.99	461105.70	646714.72	
6588.00	1.62	179.55	6586.35	26.86	15.46	0.81	15.62	461103.06	646715.36	
6683.00	1.84	161.46	6681.31	24.07	15.96	0.62	16.10	461100.27	646715.86	
6777.00	1.66	154.36	6775.26	21.41	17.03	0.30	17.15	461097.61	646716.93	
6872.00	1.50	163.14	6870.23	18.98	17.98	0.30	18.09	461095.18	646717.88	
6903.00	1.54	163.33	6901.22	18.19	18.22	0.13	18.32	461094.39	646718.12	
6935.00	1.60	139.12	6933.20	17.45	18.64	2.07	18.74	461093.65	646718.54	
6966.00	2.69	106.26	6964.18	16.91	19.62	5.17	19.71	461093.11	646719.52	
6998.00	4.28	97.86	6996.12	16.54	21.52	5.21	21.62	461092.74	646721.42	
7029.00	5.93	95.97	7027.00	16.22	24.26	5.35	24.35	461092.42	646724.16	
7061.00	7.93	93.47	7058.76	15.91	28.11	6.32	28.20	461092.11	646728.01	
7092.00	10.26	91.63	7089.37	15.70	33.00	7.57	33.09	461091.90	646732.90	
7123.00	12.53	92.79	7119.76	15.46	39.12	7.36	39.21	461091.66	646739.02	
7155.00	14.65	93.00	7150.86	15.08	46.63	6.63	46.72	461091.28	646746.53	
7187.00	16.97	94.08	7181.65	14.54	55.33	7.31	55.41	461090.74	646755.23	



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WFT Survey Report X & Y's



Weatherford

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Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference:	Well: FNR 35 Fed #1H, Grid North	
Site: FNR 35 Fed #1H	Vertical (TVD) Reference:	SITE 3416.7	
Well: FNR 35 Fed #1H	Section (VS) Reference:	Well (0.00N,0.00E,89.67Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim. deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
7218.00	18.17	94.98	7211.20	13.79	64.66	3.97	64.74	461089.99	646764.56	
7250.00	19.83	95.62	7241.46	12.83	75.03	5.23	75.11	461089.03	646774.93	
7281.00	22.23	95.57	7270.39	11.74	86.10	7.74	86.17	461087.94	646786.00	
7313.00	24.81	95.32	7299.73	10.53	98.82	8.07	98.87	461086.73	646798.72	
7344.00	27.11	94.99	7327.60	9.32	112.33	7.43	112.38	461085.52	646812.23	
7376.00	29.01	94.02	7355.84	8.14	127.34	6.11	127.38	461084.34	646827.24	
7407.00	31.48	93.78	7382.62	7.08	142.91	7.98	142.95	461083.28	646842.81	
7439.00	33.95	92.89	7409.54	6.08	160.18	7.86	160.21	461082.28	646860.08	
7470.00	36.44	93.02	7434.87	5.15	178.02	8.04	178.05	461081.35	646877.92	
7502.00	38.68	92.45	7460.23	4.23	197.50	7.08	197.52	461080.43	646897.40	
7533.00	41.10	91.75	7484.02	3.50	217.37	7.94	217.38	461079.70	646917.27	
7564.00	42.55	91.02	7507.12	3.00	238.03	4.93	238.05	461079.20	646937.93	
7596.00	44.26	90.47	7530.37	2.72	260.02	5.47	260.03	461078.92	646959.92	
7628.00	45.62	90.29	7553.02	2.57	282.62	4.27	282.63	461078.77	646982.52	
7660.00	47.71	89.58	7574.98	2.60	305.90	6.73	305.91	461078.80	647005.80	
7691.00	50.51	89.48	7595.27	2.79	329.33	9.04	329.34	461078.99	647029.23	
7723.00	54.70	89.74	7614.70	2.96	354.74	13.11	354.76	461079.16	647054.64	
7754.00	59.85	90.85	7631.45	2.82	380.81	16.88	380.82	461079.02	647080.71	
7785.00	65.15	92.13	7645.76	2.10	408.29	17.48	408.30	461078.30	647108.19	
7817.00	70.08	92.59	7657.94	0.88	437.85	15.46	437.84	461077.08	647137.75	
7848.00	72.67	92.84	7667.84	-0.51	467.19	8.39	467.18	461075.69	647167.09	
7880.00	75.28	93.13	7676.67	-2.12	497.90	8.20	497.88	461074.08	647197.80	
7911.00	76.81	92.89	7684.15	-3.69	527.94	4.99	527.91	461072.51	647227.84	
7943.00	78.59	92.18	7690.97	-5.08	559.17	5.97	559.14	461071.12	647259.07	
7974.00	80.09	91.44	7696.70	-6.04	589.62	5.38	589.58	461070.16	647289.52	
8006.00	81.36	90.43	7701.86	-6.55	621.20	5.05	621.15	461069.65	647321.10	
8037.00	82.50	90.50	7706.21	-6.80	651.89	3.68	651.84	461069.40	647351.79	
8069.00	83.97	90.63	7709.98	-7.12	683.67	4.61	683.61	461069.08	647383.57	
8100.00	85.94	90.17	7712.71	-7.33	714.54	6.52	714.49	461068.87	647414.44	
8132.00	87.48	90.16	7714.54	-7.42	746.49	4.81	746.44	461068.78	647446.39	
8163.00	87.97	89.97	7715.77	-7.46	777.47	1.70	777.41	461068.74	647477.37	
8195.00	88.39	90.40	7716.79	-7.56	809.45	1.88	809.39	461068.64	647509.35	
8226.00	88.74	89.44	7717.57	-7.52	840.44	3.30	840.38	461068.68	647540.34	
8258.00	89.16	88.02	7718.15	-6.81	872.42	4.63	872.37	461069.39	647572.32	
8289.00	89.37	87.61	7718.55	-5.63	903.40	1.49	903.35	461070.57	647603.30	
8383.00	88.95	86.88	7719.93	-1.11	997.28	0.90	997.26	461075.09	647697.18	
8478.00	89.72	86.59	7721.03	4.30	1092.12	0.87	1092.13	461080.50	647792.02	
8573.00	90.63	86.09	7720.74	10.36	1186.92	1.09	1186.96	461086.56	647886.82	
8667.00	91.26	88.33	7719.19	14.94	1280.79	2.48	1280.86	461091.14	647980.69	
8761.00	90.49	88.71	7717.75	17.37	1374.75	0.91	1374.83	461093.57	648074.65	
8856.00	88.95	89.04	7718.22	19.23	1469.73	1.66	1469.81	461095.43	648169.63	
8951.00	88.11	89.86	7720.66	20.14	1564.69	1.24	1564.78	461096.34	648264.59	
9045.00	88.67	89.72	7723.30	20.49	1658.65	0.61	1658.74	461096.69	648358.55	
9140.00	89.44	89.37	7724.86	21.24	1753.63	0.89	1753.73	461097.44	648453.53	
9234.00	87.76	90.14	7727.16	21.64	1847.60	1.97	1847.69	461097.84	648547.50	
9329.00	88.18	89.74	7730.53	21.74	1942.54	0.61	1942.63	461097.94	648642.44	
9423.00	89.02	90.61	7732.82	21.46	2036.51	1.29	2036.60	461097.66	648736.41	
9518.00	89.37	89.99	7734.16	20.96	2131.50	0.75	2131.58	461097.16	648831.40	
9612.00	90.70	90.84	7734.10	20.28	2225.49	1.68	2225.57	461096.48	648925.39	
9707.00	89.30	89.79	7734.10	19.76	2320.49	1.84	2320.56	461095.96	649020.39	
9801.00	89.93	89.71	7734.73	20.17	2414.49	0.68	2414.56	461096.37	649114.39	
9896.00	87.97	88.11	7736.47	21.97	2509.44	2.66	2509.53	461098.17	649209.34	
9990.00	87.76	87.49	7739.97	25.58	2603.31	0.70	2603.41	461101.78	649303.21	



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Site: FNR 35 Fed #1H	Vertical (TVD) Reference:	SITE 3416.7	
Well: FNR 35 Fed #1H	Section (VS) Reference:	Well (0.00N,0.00E,89.67Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
10085.00	88.95	87.70	7742.70	29.56	2698.19	1.27	2698.31	461105.76	649398.09	
10179.00	89.37	87.36	7744.08	33.61	2792.09	0.57	2792.23	461109.81	649491.99	
10274.00	90.91	87.64	7743.85	37.76	2886.99	1.65	2887.16	461113.96	649586.89	
10369.00	91.89	87.70	7741.53	41.62	2981.89	1.03	2982.07	461117.82	649681.79	
10463.00	88.67	86.75	7741.07	46.17	3075.76	3.57	3075.97	461122.37	649775.66	
10558.00	90.84	86.12	7741.47	52.08	3170.57	2.38	3170.82	461128.28	649870.47	
10652.00	89.58	86.13	7741.13	58.43	3264.35	1.34	3264.63	461134.63	649964.25	
10747.00	88.88	89.03	7742.41	62.44	3359.25	3.14	3359.55	461138.64	650059.15	
10841.00	90.07	89.24	7743.27	63.86	3453.23	1.29	3453.54	461140.06	650153.13	
10936.00	91.05	88.85	7742.34	65.44	3548.21	1.11	3548.53	461141.64	650248.11	
11030.00	88.53	88.98	7742.68	67.22	3642.19	2.68	3642.51	461143.42	650342.09	
11125.00	89.16	88.56	7744.60	69.26	3737.15	0.80	3737.48	461145.46	650437.05	
11219.00	87.48	88.97	7747.35	71.29	3831.08	1.84	3831.42	461147.49	650530.98	
11314.00	85.94	89.18	7752.81	72.82	3925.91	1.64	3926.26	461149.02	650625.81	
11408.00	86.92	88.62	7758.66	74.62	4019.71	1.20	4020.07	461150.82	650719.61	
11503.00	88.67	90.21	7762.31	75.59	4114.63	2.49	4114.99	461151.79	650814.53	
11597.00	87.27	88.87	7765.64	76.34	4208.56	2.06	4208.93	461152.54	650908.46	
11692.00	89.58	91.11	7768.25	76.36	4303.51	3.39	4303.88	461152.56	651003.41	
11786.00	90.49	91.87	7768.20	73.91	4397.48	1.26	4397.83	461150.11	651097.38	
11880.00	89.65	89.99	7768.08	72.39	4491.46	2.19	4491.80	461148.59	651191.36	
11975.00	90.21	89.16	7768.20	73.09	4586.46	1.05	4586.80	461149.29	651286.36	
12070.00	90.42	88.69	7767.68	74.87	4681.44	0.54	4681.79	461151.07	651381.34	
12150.00	90.49	89.70	7767.04	76.00	4761.43	1.27	4761.78	461152.20	651461.33	Last WFT Svy
12220.00	90.49	89.70	7766.44	76.36	4831.42	0.00	4831.78	461152.56	651531.32	Proj to Bit

Annotation

MD ft	TVD ft	
463.00	462.99	TieOn MS Gyro
593.00	592.98	First WFT MWD
12150.00	7767.04	Last WFT Svy
12220.00	7766.44	Proj to Bit

DEC 17 2014

OXY USA INC.
FNR 35 Federal 1H
API No. 30-015-42275

RECEIVED

14-3/4" hole @ 503'
11-3/4" csg @ 503'
w/ 690sx-TOC-Surf-Circ

10-5/8" hole @ 3959'
8-5/8" csg @ 3946'
w/ 1539sx-TOC-275' CBL

7-7/8" hole @ 12220'
5-1/2" csg @ 12159'
w/ 1450sx-TOC-Surf-Circ

2-7/8" tbg & ESP @ 6929'

Perfs @ 7929-12015'

TD- 12220'M 7767'V

