



Weatherford International Ltd.

WFT Survey Report X&Y's

30-015-41647
Weatherford

Company: Occidental Permian Ltd. Date: 6/6/2014 Time: 07:51:58 Page: 1
Field: Eddy Co, NM (Nad 27) Co-ordinate(N/E) Reference: Well: FNR 26 Fed #2, Grid North
Site: FNR 26 Fed #2 Vertical (TVD) Reference: SITE 3373.8
Well: FNR 26 Fed #2 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 26 Fed #2

Site Position: Northing: 463796.10 ft Latitude: 32 16 27.122 N
From: Map Easting: 646688.10 ft Longitude: 103 51 31.400 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3348.90 ft Grid Convergence: 0.25 deg

Well: FNR 26 Fed #2 Slot Name:
Well Position: +N/-S 0.00 ft Northing: 463796.10 ft Latitude: 32 16 27.122 N
+E/-W 0.00 ft Easting: 646688.10 ft Longitude: 103 51 31.400 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3373.80 ft Tie-on Depth: 0.00 ft
Magnetic Data: 4/28/2014 Above System Datum: Mean Sea Level
Field Strength: 48354 nT Declination: 7.37 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
ft ft ft deg
0.00 0.00 0.00 89.67

Survey Program for Definitive Wellpath
Date: 6/6/2014 Validated: No Version: 2
Actual From To Survey Toolcode Tool Name
ft ft
0.00 405.00 Gyro (0.00-405.00) NS-GYRO-MS North sensing gyrocompassing m
405.00 12011.00 MWD (405.00-12011.00) MWD MWD - Standard

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	463796.10	646688.10	
100.00	0.97	350.57	100.00	0.84	-0.14	0.97	-0.13	463796.94	646687.96	
200.00	1.27	2.90	199.98	2.78	-0.22	0.38	-0.21	463798.88	646687.88	
300.00	1.53	4.26	299.95	5.21	-0.07	0.26	-0.04	463801.31	646688.03	
400.00	1.56	6.58	399.91	7.90	0.19	0.07	0.23	463804.00	646688.29	
405.00	1.57	6.90	404.91	8.03	0.21	0.27	0.25	463804.13	646688.31	TieOn Gyro
573.00	1.44	314.55	572.86	11.80	-1.02	0.79	-0.96	463807.90	646687.08	First WFT Svy
665.00	1.35	312.67	664.83	13.35	-2.64	0.11	-2.57	463809.45	646685.46	
757.00	1.07	314.34	756.81	14.68	-4.05	0.31	-3.97	463810.78	646684.05	
849.00	0.72	318.57	848.80	15.71	-5.05	0.39	-4.96	463811.81	646683.05	
941.00	0.31	325.04	940.79	16.35	-5.58	0.45	-5.48	463812.45	646682.52	
1033.00	0.07	8.64	1032.79	16.61	-5.71	0.29	-5.62	463812.71	646682.39	
1127.00	0.16	112.46	1126.79	16.62	-5.58	0.20	-5.49	463812.72	646682.52	
1219.00	0.25	121.71	1218.79	16.46	-5.29	0.10	-5.20	463812.56	646682.81	
1313.00	0.10	180.55	1312.79	16.27	-5.12	0.23	-5.02	463812.37	646682.98	
1408.00	0.21	93.79	1407.79	16.18	-4.94	0.24	-4.85	463812.28	646683.16	
1502.00	0.14	124.13	1501.79	16.10	-4.68	0.12	-4.59	463812.20	646683.42	
1597.00	0.20	81.77	1596.79	16.06	-4.42	0.14	-4.33	463812.16	646683.68	
1691.00	0.10	353.85	1690.79	16.17	-4.26	0.23	-4.17	463812.27	646683.84	
1786.00	0.14	177.71	1785.79	16.13	-4.27	0.25	-4.18	463812.23	646683.83	
1880.00	0.14	218.74	1879.79	15.93	-4.34	0.10	-4.24	463812.03	646683.76	
1975.00	0.10	265.70	1974.79	15.83	-4.49	0.11	-4.40	463811.93	646683.61	
2069.00	0.07	194.49	2068.79	15.77	-4.59	0.11	-4.50	463811.87	646683.51	
2164.00	0.31	222.91	2163.79	15.53	-4.78	0.26	-4.69	463811.63	646683.32	

Provide signature page for directional survey(s)



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WFT Survey Report X&Y's



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Company: Occidental Permian Ltd. Date: 6/6/2014 Time: 07:51:58 Page: 2
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: FNR 26 Fed #2, Grid North
 Site: FNR 26 Fed #2 Vertical (TVD) Reference: SITE 3373.8
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 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	NS ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2258.00	0.35	220.92	2257.79	15.12	-5.14	0.04	-5.05	463811.22	646682.96	
2353.00	0.29	257.62	2352.79	14.85	-5.56	0.22	-5.48	463810.95	646682.54	
2447.00	0.29	219.45	2446.79	14.62	-5.95	0.20	-5.86	463810.72	646682.15	
2542.00	0.25	242.34	2541.79	14.34	-6.28	0.12	-6.20	463810.44	646681.82	
2636.00	0.41	250.76	2635.78	14.13	-6.78	0.18	-6.70	463810.23	646681.32	
2731.00	0.21	232.03	2730.78	13.91	-7.24	0.23	-7.16	463810.01	646680.86	
2825.00	0.40	244.28	2824.78	13.66	-7.67	0.21	-7.59	463809.76	646680.43	
2920.00	0.44	226.98	2919.78	13.27	-8.24	0.14	-8.16	463809.37	646679.86	
3014.00	0.31	240.10	3013.78	12.90	-8.72	0.16	-8.65	463809.00	646679.38	
3109.00	0.36	215.74	3108.77	12.53	-9.12	0.16	-9.05	463808.63	646678.98	
3203.00	0.25	189.19	3202.77	12.08	-9.32	0.19	-9.25	463808.18	646678.78	
3297.00	0.69	156.71	3296.77	11.36	-9.13	0.53	-9.07	463807.46	646678.97	
3392.00	1.27	171.47	3391.76	9.79	-8.75	0.66	-8.69	463805.89	646679.35	
3487.00	1.25	153.77	3486.73	7.82	-8.14	0.41	-8.09	463803.92	646679.96	
3581.00	1.59	119.59	3580.71	6.26	-6.55	0.95	-6.51	463802.36	646681.55	
3676.00	1.67	109.49	3675.67	5.15	-4.10	0.31	-4.07	463801.25	646684.00	
3770.00	0.10	42.54	3769.65	4.75	-2.75	1.74	-2.72	463800.85	646685.35	
3822.00	0.22	295.29	3821.65	4.83	-2.81	0.51	-2.78	463800.93	646685.29	
4019.00	0.42	267.35	4018.65	4.96	-3.87	0.13	-3.85	463801.06	646684.23	
4113.00	0.33	275.38	4112.65	4.96	-4.49	0.11	-4.46	463801.06	646683.61	
4213.00	0.27	281.40	4212.65	5.04	-5.00	0.07	-4.98	463801.14	646683.10	
4307.00	0.09	234.35	4306.65	5.04	-5.28	0.23	-5.25	463801.14	646682.82	
4402.00	0.19	254.51	4401.65	4.95	-5.49	0.12	-5.47	463801.05	646682.61	
4491.00	0.18	300.88	4490.65	4.99	-5.76	0.16	-5.73	463801.09	646682.34	
4586.00	0.30	231.88	4585.65	4.91	-6.08	0.30	-6.05	463801.01	646682.02	
4680.00	0.42	274.49	4679.64	4.78	-6.62	0.30	-6.59	463800.88	646681.48	
4775.00	0.34	287.27	4774.64	4.89	-7.23	0.12	-7.21	463800.99	646680.87	
4869.00	0.29	255.67	4868.64	4.92	-7.73	0.19	-7.70	463801.02	646680.37	
4964.00	0.34	247.26	4963.64	4.75	-8.22	0.07	-8.20	463800.85	646679.88	
5058.00	0.39	264.71	5057.64	4.61	-8.80	0.13	-8.77	463800.71	646679.30	
5153.00	0.32	276.14	5152.64	4.61	-9.38	0.10	-9.36	463800.71	646678.72	
5248.00	0.54	249.44	5247.63	4.48	-10.07	0.31	-10.04	463800.58	646678.03	
5342.00	0.46	268.46	5341.63	4.32	-10.86	0.19	-10.84	463800.42	646677.24	
5436.00	0.46	251.20	5435.63	4.19	-11.59	0.15	-11.57	463800.29	646676.51	
5531.00	0.52	240.88	5530.62	3.85	-12.33	0.11	-12.31	463799.95	646675.77	
5625.00	0.82	240.05	5624.62	3.31	-13.29	0.32	-13.27	463799.41	646674.81	
5719.00	0.78	225.85	5718.61	2.53	-14.33	0.21	-14.31	463798.63	646673.77	
5814.00	0.73	238.48	5813.60	1.76	-15.31	0.18	-15.30	463797.86	646672.79	
5908.00	0.83	226.87	5907.59	0.98	-16.32	0.20	-16.31	463797.08	646671.78	
6003.00	0.94	223.42	6002.58	-0.05	-17.35	0.13	-17.35	463796.05	646670.75	
6097.00	1.20	221.90	6096.56	-1.35	-18.54	0.28	-18.55	463794.75	646669.56	
6191.00	1.01	216.32	6190.54	-2.75	-19.69	0.23	-19.70	463793.35	646668.41	
6286.00	1.20	135.83	6285.53	-4.13	-19.49	1.51	-19.52	463791.97	646668.61	
6380.00	1.07	135.26	6379.51	-5.46	-18.19	0.14	-18.22	463790.64	646669.91	
6475.00	1.04	135.58	6474.50	-6.71	-16.96	0.03	-17.00	463789.39	646671.14	
6569.00	0.96	135.56	6568.48	-7.88	-15.81	0.09	-15.86	463788.22	646672.29	
6664.00	1.14	139.78	6663.47	-9.17	-14.64	0.21	-14.70	463786.93	646673.46	
6758.00	1.32	140.71	6757.45	-10.72	-13.36	0.19	-13.42	463785.38	646674.74	
6852.00	1.12	125.01	6851.42	-12.09	-11.92	0.41	-11.99	463784.01	646676.18	
6884.00	2.51	100.30	6883.41	-12.39	-10.97	4.89	-11.04	463783.71	646677.13	
6915.00	4.52	93.34	6914.35	-12.59	-9.08	6.62	-9.16	463783.51	646679.02	
6947.00	6.94	91.09	6946.19	-12.70	-5.89	7.59	-5.96	463783.40	646682.21	



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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
6978.00	9.49	88.02	6976.87	-12.64	-1.46	8.34	-1.54	463783.46	646686.64	
7010.00	11.92	84.27	7008.31	-12.22	4.46	7.90	4.39	463783.88	646692.56	
7041.00	14.23	86.04	7038.50	-11.64	11.45	7.56	11.38	463784.46	646699.55	
7073.00	16.41	89.38	7069.36	-11.32	19.89	7.35	19.83	463784.78	646707.99	
7104.00	18.87	91.80	7098.90	-11.43	29.28	8.28	29.22	463784.67	646717.38	
7136.00	20.65	93.89	7129.02	-11.97	40.09	5.98	40.02	463784.13	646728.19	
7167.00	22.47	96.14	7157.85	-12.98	51.43	6.45	51.36	463783.12	646739.53	
7199.00	23.39	97.21	7187.32	-14.43	63.81	3.16	63.73	463781.67	646751.91	
7230.00	25.06	96.48	7215.59	-15.94	76.44	5.47	76.35	463780.16	646764.54	
7262.00	27.58	96.30	7244.27	-17.52	90.54	7.88	90.44	463778.58	646778.64	
7293.00	29.52	96.17	7271.50	-19.13	105.27	6.26	105.16	463776.97	646793.37	
7325.00	32.48	95.87	7298.92	-20.86	121.66	9.26	121.54	463775.24	646809.76	
7356.00	35.56	94.61	7324.62	-22.43	138.93	10.19	138.80	463773.67	646827.03	
7388.00	38.33	93.17	7350.19	-23.73	158.11	9.07	157.98	463772.37	646846.21	
7419.00	40.47	92.49	7374.14	-24.70	177.76	7.04	177.62	463771.40	646865.86	
7451.00	41.67	92.60	7398.27	-25.63	198.77	3.76	198.62	463770.47	646886.87	
7482.00	43.47	91.33	7421.10	-26.35	219.72	6.43	219.57	463769.75	646907.82	
7514.00	45.31	89.94	7443.96	-26.59	242.11	6.50	241.95	463769.51	646930.21	
7545.00	47.37	89.27	7465.36	-26.43	264.53	6.83	264.38	463769.67	646952.63	
7577.00	49.99	88.88	7486.49	-26.04	288.56	8.24	288.41	463770.06	646976.66	
7608.00	52.10	88.93	7505.98	-25.58	312.66	6.81	312.51	463770.52	647000.76	
7640.00	54.26	89.53	7525.16	-25.24	338.27	6.91	338.12	463770.86	647026.37	
7671.00	56.93	90.10	7542.67	-25.16	363.85	8.75	363.70	463770.94	647051.95	
7703.00	59.26	90.89	7559.58	-25.40	391.01	7.58	390.86	463770.70	647079.11	
7734.00	62.32	91.65	7574.71	-26.00	418.06	10.10	417.90	463770.10	647106.16	
7766.00	64.72	92.02	7588.98	-26.92	446.68	7.57	446.52	463769.18	647134.78	
7797.00	66.28	91.65	7601.83	-27.82	474.88	5.15	474.71	463768.28	647162.98	
7829.00	68.21	91.54	7614.21	-28.64	504.37	6.04	504.20	463767.46	647192.47	
7861.00	69.75	90.86	7625.69	-29.27	534.24	5.21	534.06	463766.83	647222.34	
7892.00	72.21	90.66	7635.79	-29.65	563.54	7.96	563.36	463766.45	647251.64	
7924.00	74.10	90.70	7645.06	-30.02	594.16	5.91	593.98	463766.08	647282.26	
7955.00	76.48	90.92	7652.93	-30.44	624.14	7.71	623.96	463765.66	647312.24	
7987.00	78.35	91.09	7659.90	-30.99	655.37	5.87	655.18	463765.11	647343.47	
8018.00	81.26	91.28	7665.39	-31.62	685.87	9.41	685.68	463764.48	647373.97	
8050.00	83.23	90.74	7669.71	-32.18	717.57	6.38	717.37	463763.92	647405.67	
8081.00	85.63	91.06	7672.72	-32.66	748.41	7.81	748.22	463763.44	647436.51	
8091.00	86.40	91.38	7673.41	-32.88	758.39	8.34	758.19	463763.22	647446.49	
8242.00	87.34	90.81	7681.66	-35.76	909.13	0.73	908.91	463760.34	647597.23	
8337.00	86.57	92.34	7686.70	-38.37	1003.96	1.80	1003.72	463757.73	647692.06	
8431.00	84.67	91.81	7693.88	-41.76	1097.62	2.10	1097.36	463754.34	647785.72	
8526.00	87.13	90.02	7700.67	-43.27	1192.35	3.20	1192.09	463752.83	647880.45	
8558.00	88.32	89.12	7701.94	-43.03	1224.33	4.66	1224.06	463753.07	647912.43	
8589.00	89.44	88.47	7702.55	-42.38	1255.31	4.18	1255.05	463753.72	647943.41	
8621.00	89.16	88.13	7702.94	-41.43	1287.30	1.38	1287.04	463754.67	647975.40	
8716.00	90.28	88.00	7703.41	-38.22	1382.24	1.19	1382.00	463757.88	648070.34	
8811.00	88.32	86.91	7704.57	-34.00	1477.13	2.36	1476.91	463762.10	648165.23	
8905.00	88.88	85.41	7706.86	-27.71	1570.89	1.70	1570.71	463768.39	648258.99	
9001.00	92.52	87.69	7705.69	-21.93	1666.69	4.47	1666.53	463774.17	648354.79	
9094.00	92.87	87.27	7701.32	-17.85	1759.49	0.59	1759.36	463778.25	648447.59	
9190.00	93.50	87.52	7695.98	-13.49	1855.25	0.71	1855.14	463782.61	648543.35	
9284.00	86.71	85.70	7695.81	-7.94	1949.02	7.48	1948.94	463788.16	648637.12	
9379.00	89.09	87.05	7699.29	-1.94	2043.76	2.88	2043.71	463794.16	648731.86	
9473.00	89.51	86.82	7700.44	3.09	2137.62	0.51	2137.60	463799.19	648825.72	



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Site: FNR 26 Fed #2 Vertical (TVD) Reference: SITE 3373.8
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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
9568.00	89.37	85.54	7701.37	9.42	2232.40	1.36	2232.42	463805.52	648920.50	
9662.00	90.70	89.27	7701.31	13.67	2326.28	4.21	2326.32	463809.77	649014.38	
9758.00	87.76	86.59	7702.60	17.14	2422.19	4.14	2422.25	463813.24	649110.29	
9852.00	89.93	89.95	7704.50	19.97	2516.11	4.25	2516.19	463816.07	649204.21	
9947.00	86.99	87.38	7707.05	22.18	2611.03	4.11	2611.12	463818.28	649299.13	
10042.00	89.02	88.89	7710.36	25.27	2705.92	2.66	2706.02	463821.37	649394.02	
10136.00	86.71	86.40	7713.86	29.13	2799.76	3.61	2799.88	463825.23	649487.86	
10231.00	92.73	90.72	7714.32	31.52	2894.66	7.80	2894.80	463827.62	649582.76	
10327.00	91.26	89.84	7710.98	31.05	2990.60	1.78	2990.73	463827.15	649678.70	
10421.00	87.13	89.69	7712.30	31.43	3084.57	4.40	3084.70	463827.53	649772.67	
10515.00	87.62	92.17	7716.61	29.91	3178.45	2.69	3178.57	463826.01	649866.55	
10609.00	88.04	93.16	7720.17	25.54	3272.28	1.14	3272.37	463821.64	649960.38	
10703.00	88.88	96.11	7722.69	17.95	3365.93	3.26	3365.98	463814.05	650054.03	
10798.00	87.13	93.19	7726.00	10.25	3460.54	3.58	3460.55	463806.35	650148.64	
10891.00	90.21	95.79	7728.16	2.97	3553.21	4.33	3553.17	463799.07	650241.31	
10986.00	91.26	97.43	7726.94	-7.96	3647.57	2.05	3647.47	463788.14	650335.67	
11080.00	90.42	93.94	7725.56	-17.27	3741.08	3.82	3740.92	463778.83	650429.18	
11197.00	88.53	87.62	7726.64	-18.86	3858.00	5.64	3857.83	463777.24	650546.10	
11291.00	88.67	85.57	7728.93	-13.28	3951.80	2.19	3951.66	463782.82	650639.90	
11386.00	88.60	84.27	7731.20	-4.87	4046.40	1.37	4046.31	463791.23	650734.50	
11481.00	88.46	83.70	7733.63	5.08	4140.85	0.62	4140.81	463801.18	650828.95	
11575.00	90.21	84.50	7734.72	14.74	4234.34	2.05	4234.35	463810.84	650922.44	
11669.00	87.97	83.89	7736.22	24.25	4327.84	2.47	4327.91	463820.35	651015.94	
11764.00	91.47	88.13	7736.68	30.85	4422.57	5.79	4422.67	463826.95	651110.67	
11859.00	91.54	88.42	7734.19	33.71	4517.50	0.31	4517.61	463829.81	651205.60	
11939.00	87.76	83.14	7734.68	39.59	4597.23	8.12	4597.39	463835.69	651285.33	Last WFT Svy
12011.00	87.76	83.14	7737.49	48.19	4668.66	0.00	4668.86	463844.29	651356.76	Proj to Bit

Annotation

MD ft	TVD ft	
405.00	404.91	TieOn Gyro
573.00	572.86	First WFT Svy
11939.00	7734.68	Last WFT Svy
12011.00	7737.49	Proj to Bit



Job Number: SVMO-140650
 Company: OXY USA, Inc.
 Lease/Well: FNR 26 Fed 2H
 Location: Eddy County, NM
 Rig Name: H&P #615
 RKB: 25'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.14°
 Grid: East To Grid North
 File name: S:\2014SU-1\OXY\MO\FNR26F-1\2H.SVY
 Date/Time: 19-May-14 / 11:46
 Curve Name: Surface - 405' M.D. (Rate Gyro) (API 30-015-41647)

NM OIL CONSERVATION
 ARTESIA DISTRICT

SEP 19 2014

RECEIVED

MS SURVEY

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 405' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Hanley Patterson 5/19/14
 MS Energy Services Date..

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.97	350.57	100.00	.84	-.14	.84	.85	350.57	.97
200.00	1.27	2.90	199.98	2.78	-.22	2.78	2.79	355.44	.38
300.00	1.53	4.26	299.95	5.21	-.07	5.21	5.22	359.27	.26
400.00	1.56	6.58	399.91	7.90	.19	7.90	7.90	1.37	.07
Last Survey Depth Recorded									
405.00	1.57	6.90	404.91	8.03	.21	8.03	8.04	1.46	.27

.OXY USA Inc.
FNR 26 Federal #2H
API No. 30-015-41573

16" hole @ 525'
13-3/8" csg @ 525'
w/ 400sx-TOC-Surf-Circ

12-1/4" hole @ 3876'
9-5/8" csg @ 3876'
w/ 1420sx-TOC-Surf-Circ

8-3/4" hole @ 8160'
7" csg @ 8160'
w/ 720sx-TOC-Surf-Circ
DVT @ 3980'

2-7/8" tbg w/ ESP @ 6727'

6-1/8" hole @ 12011'
4-1/2" cmlr liner @ 6750-12003'

Sliding Sleeves @ 8255-11987'

TD-12011'M 7738'V