



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: April 2, 2014

Attention: Anthony Tsacher

30-015-41345

Re: Occidental Permian Ltd
Well: Federal 12 #3H
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>
Jeremy Orona	3H	500' MD	2-23-2014	Measurement
MWD Supervisor		13200' MD	3-10-2014	While Drilling

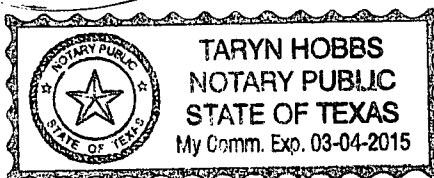
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Daniel Rodriguez
MWD Coordinator

On this, the 11th day of April, 2014, before me a notary public, the undersigned officer, personally appeared Daniel Rodriguez, 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 Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd. Date: 4/2/2014 Time: 13:10:34 Page: 1
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: Federal 12 #3H, Grid North
 Site: Federal 12 #3H Vertical (TVD) Reference: SITE 3311.3
 Well: Federal 12 #3H Section (VS) Reference: Well (0.00N,0.00E,195.28Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey:

Start Date:

Company:

Engineer:

Tool:

Tied-to:

Site: Federal 12 #3H

Site Position: Northing: 484078.00 ft Latitude: 32 19 47.439 N
 From: Map Easting: 655332.00 ft Longitude: 103 49 49.613 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3287.30 ft Grid Convergence: 0.27 deg

Well: Federal 12 #3H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 484078.00 ft Latitude: 32 19 47.439 N
 +E/-W 0.00 ft Easting: 655332.00 ft Longitude: 103 49 49.613 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface
 Tie-on Depth: 0.00 ft
 Above System Datum: Mean Sea Level
 Declination: 7.39 deg
 Mag Dip Angle: 60.18 deg
 Direction
 deg
 195.28

Current Datum: SITE Height 3311.30 ft
 Magnetic Data: 1/29/2014
 Field Strength: 48415 nT
 Vertical Section: Depth From (TVD) +N/-S
 ft ft
 0.00 0.00

Survey Program for Definitive Wellpath

Date: 3/10/2014 Validated: No

Version: 0

Actual From To
 ft ft
 Survey

Toolcode

Tool Name

0.00 13257.00 MWD (0.00-13257.00)

MWD

MWD - Standard

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	484078.00	655332.00	First WFT Svy
500.00	2.43	300.43	499.85	5.37	-9.14	0.49	-2.77	484083.37	655322.86	
596.00	1.13	284.39	595.80	6.64	-11.81	1.44	-3.29	484084.64	655320.19	
688.00	0.91	277.18	687.79	6.95	-13.42	0.28	-3.17	484084.95	655318.58	
783.00	1.04	273.91	782.77	7.11	-15.02	0.15	-2.89	484085.11	655316.98	
876.00	1.04	276.23	875.76	7.25	-16.71	0.05	-2.60	484085.25	655315.29	
968.00	1.07	275.30	967.74	7.42	-18.39	0.04	-2.32	484085.42	655313.61	
1062.00	0.98	280.12	1061.73	7.65	-20.06	0.13	-2.09	484085.65	655311.94	
1157.00	0.60	58.08	1156.72	8.05	-20.43	1.56	-2.38	484086.05	655311.57	
1251.00	1.09	56.99	1250.71	8.80	-19.27	0.52	-3.41	484086.80	655312.73	
1346.00	1.24	53.16	1345.69	9.91	-17.69	0.18	-4.90	484087.91	655314.31	
1535.00	1.19	58.62	1534.65	12.16	-14.37	0.07	-7.94	484090.16	655317.63	
1630.00	1.07	61.23	1629.63	13.10	-12.75	0.14	-9.27	484091.10	655319.25	
1724.00	0.91	61.02	1723.62	13.88	-11.33	0.17	-10.40	484091.88	655320.67	
1819.00	0.80	55.80	1818.61	14.62	-10.12	0.14	-11.43	484092.62	655321.88	
1913.00	0.60	70.18	1912.60	15.16	-9.12	0.28	-12.22	484093.16	655322.88	
2008.00	0.49	92.24	2007.60	15.31	-8.24	0.25	-12.59	484093.31	655323.76	
2102.00	0.45	88.78	2101.59	15.30	-7.47	0.05	-12.79	484093.30	655324.53	
2197.00	0.41	111.68	2196.59	15.18	-6.78	0.18	-12.86	484093.18	655325.22	
2291.00	0.41	104.74	2290.59	14.97	-6.15	0.05	-12.82	484092.97	655325.85	
2386.00	0.30	111.93	2385.59	14.79	-5.59	0.12	-12.80	484092.79	655326.41	
2480.00	0.22	100.40	2479.59	14.67	-5.18	0.10	-12.78	484092.67	655326.82	
2575.00	0.14	185.32	2574.59	14.52	-5.01	0.26	-12.69	484092.52	655326.99	
2669.00	0.16	206.81	2668.59	14.29	-5.08	0.06	-12.44	484092.29	655326.92	
2764.00	0.16	289.57	2763.58	14.21	-5.27	0.22	-12.32	484092.21	655326.73	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 4/2/2014	Time: 13:10:34	Page: 2
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Federal 12 #3H, Grid North	
Site: Federal 12 #3H	Vertical (TVD) Reference:	SITE 3311.3	
Well: Federal 12 #3H	Section (VS) Reference:	Well (0.00N,0.00E,195.28Azi)	
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
2858.00	0.31	286.22	2857.58	14.33	-5.64	0.16	-12.34	484092.33	655326.36	
2953.00	0.35	316.83	2952.58	14.61	-6.08	0.19	-12.49	484092.61	655325.92	
3047.00	0.20	347.24	3046.58	14.98	-6.31	0.22	-12.79	484092.98	655325.69	
3142.00	0.30	92.01	3141.58	15.14	-6.10	0.42	-12.99	484093.14	655325.90	
3331.00	0.75	92.50	3330.57	15.06	-4.37	0.24	-13.38	484093.06	655327.63	
3426.00	1.19	107.53	3425.56	14.74	-2.81	0.53	-13.48	484092.74	655329.19	
3520.00	1.63	114.81	3519.53	13.89	-0.66	0.50	-13.22	484091.89	655331.34	
3615.00	2.07	125.31	3614.48	12.33	1.96	0.58	-12.41	484090.33	655333.96	
3709.00	2.22	126.36	3708.41	10.27	4.81	0.16	-11.17	484088.27	655336.81	
3804.00	2.10	123.26	3803.35	8.22	7.75	0.18	-9.97	484086.22	655339.75	
3866.00	1.93	126.48	3865.31	6.98	9.54	0.33	-9.24	484084.98	655341.54	
3984.00	1.69	122.54	3983.25	4.86	12.60	0.23	-8.01	484082.86	655344.60	
4079.00	1.39	174.76	4078.22	2.96	13.89	1.45	-6.51	484080.96	655345.89	
4173.00	2.53	213.35	4172.17	0.09	12.85	1.79	-3.47	484078.09	655344.85	
4268.00	3.94	238.85	4267.02	-3.35	8.91	2.09	0.88	484074.65	655340.91	
4362.00	5.87	246.87	4360.67	-6.91	1.72	2.17	6.21	484071.09	655333.72	
4457.00	7.69	245.42	4455.00	-11.46	-8.53	1.92	13.30	484066.54	655323.47	
4551.00	9.19	247.54	4547.98	-16.95	-21.18	1.63	21.93	484061.05	655310.82	
4646.00	11.56	243.01	4641.42	-24.17	-36.68	2.64	32.98	484053.83	655295.32	
4741.00	12.87	241.63	4734.27	-33.51	-54.47	1.41	46.68	484044.49	655277.53	
4835.00	14.91	241.20	4825.52	-44.31	-74.28	2.17	62.32	484033.69	655257.72	
4930.00	17.04	241.86	4916.84	-56.77	-97.27	2.25	80.40	484021.23	655234.73	
5024.00	18.27	241.65	5006.41	-70.26	-122.38	1.31	100.03	484007.74	655209.62	
5119.00	20.14	241.86	5096.12	-85.05	-149.91	1.97	121.55	483992.95	655182.09	
5213.00	21.69	241.67	5183.93	-100.92	-179.47	1.65	144.65	483977.08	655152.53	
5308.00	22.97	242.51	5271.80	-117.81	-211.37	1.39	169.35	483960.19	655120.63	
5402.00	24.39	242.84	5357.88	-135.14	-244.91	1.52	194.90	483942.86	655087.09	
5497.00	26.22	242.99	5443.77	-153.62	-281.06	1.93	222.26	483924.38	655050.94	
5591.00	28.27	242.88	5527.33	-173.21	-319.38	2.18	251.25	483904.79	655012.62	
5686.00	30.72	241.27	5610.02	-195.13	-360.69	2.71	283.28	483882.87	654971.31	
5780.00	31.55	241.47	5690.47	-218.42	-403.35	0.89	316.99	483859.58	654928.65	
5875.00	32.07	239.47	5771.21	-243.10	-446.91	1.24	352.28	483834.90	654885.09	
5969.00	31.81	239.40	5850.98	-268.39	-489.73	0.28	387.96	483809.61	654842.27	
6063.00	31.70	239.76	5930.90	-293.44	-532.39	0.23	423.37	483784.56	654799.61	
6158.00	31.93	240.01	6011.63	-318.56	-575.71	0.28	459.02	483759.44	654756.29	
6252.00	30.97	240.14	6091.82	-343.03	-618.22	1.02	493.83	483734.97	654713.78	
6347.00	30.05	240.57	6173.67	-366.89	-660.13	1.00	527.89	483711.11	654671.87	
6442.00	29.19	241.14	6256.25	-389.76	-701.14	0.95	560.76	483688.24	654630.86	
6536.00	27.80	241.53	6338.86	-411.27	-740.49	1.49	591.88	483666.73	654591.51	
6630.00	26.79	240.70	6422.40	-432.09	-778.23	1.15	621.91	483645.91	654553.77	
6725.00	26.61	239.66	6507.27	-453.31	-815.26	0.53	652.14	483624.69	654516.74	
6819.00	27.93	239.80	6590.82	-475.02	-852.46	1.41	682.88	483602.98	654479.54	
6914.00	28.77	239.84	6674.42	-497.70	-891.46	0.88	715.04	483580.30	654440.54	
7008.00	30.01	240.64	6756.32	-520.59	-931.50	1.38	747.67	483557.41	654400.50	
7103.00	31.25	240.68	6838.07	-544.31	-973.70	1.31	781.67	483533.69	654358.30	
7137.00	31.57	242.26	6867.09	-552.77	-989.26	2.60	793.94	483525.23	654342.74	
7169.00	31.68	241.84	6894.33	-560.63	-1004.09	0.77	805.43	483517.37	654327.91	
7200.00	33.76	240.34	6920.41	-568.74	-1018.75	7.20	817.11	483509.26	654313.25	
7232.00	35.92	240.02	6946.68	-577.83	-1034.61	6.77	830.06	483500.17	654297.39	
7263.00	37.16	238.54	6971.58	-587.26	-1050.47	4.91	843.34	483490.74	654281.53	
7296.00	38.50	236.58	6997.65	-598.12	-1067.55	5.45	858.31	483479.88	654264.45	
7327.00	39.27	233.50	7021.78	-609.27	-1083.49	6.71	873.27	483468.73	654248.51	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 4/2/2014	Time: 13:10:34	Page: 3
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Federal 12 #3H, Grid North	
Site: Federal 12 #3H	Vertical (TVD) Reference:	SITE 3311.3	
Well: Federal 12 #3H	Section (VS) Reference:	Well (0.00N,0.00E,195.28Azi)	
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
7359.00	40.16	230.58	7046.40	-621.85	-1099.61	6.46	889.65	483456.15	654232.39	
7390.00	41.15	228.51	7069.92	-634.96	-1114.97	5.40	906.34	483443.04	654217.03	
7422.00	41.44	225.89	7093.96	-649.30	-1130.46	5.48	924.27	483428.70	654201.54	
7453.00	41.18	223.37	7117.25	-663.86	-1144.83	5.43	942.10	483414.14	654187.17	
7485.00	40.31	220.12	7141.49	-679.44	-1158.74	7.16	960.79	483398.56	654173.26	
7516.00	40.27	218.60	7165.14	-694.94	-1171.45	3.17	979.09	483383.06	654160.55	
7548.00	41.21	217.53	7189.39	-711.38	-1184.33	3.66	998.34	483366.62	654147.67	
7579.00	42.06	216.78	7212.56	-727.79	-1196.77	3.18	1017.46	483350.21	654135.23	
7611.00	43.72	216.39	7236.00	-745.28	-1209.74	5.25	1037.75	483332.72	654122.26	
7642.00	45.36	216.26	7258.09	-762.80	-1222.62	5.30	1058.04	483315.20	654109.38	
7674.00	47.00	215.64	7280.25	-781.49	-1236.18	5.31	1079.64	483296.51	654095.82	
7705.00	48.59	214.57	7301.08	-800.28	-1249.38	5.73	1101.24	483277.72	654082.62	
7737.00	50.33	213.26	7321.87	-820.46	-1262.94	6.26	1124.29	483257.54	654069.06	
7768.00	52.20	212.23	7341.27	-840.80	-1276.02	6.57	1147.35	483237.20	654055.98	
7800.00	53.34	209.39	7360.63	-862.68	-1289.06	7.91	1171.90	483215.32	654042.94	
7831.00	54.66	207.63	7378.86	-884.72	-1301.03	6.26	1196.31	483193.28	654030.97	
7863.00	55.59	204.86	7397.16	-908.26	-1312.64	7.67	1222.08	483169.74	654019.36	
7894.00	56.12	201.90	7414.56	-931.81	-1322.81	8.08	1247.48	483146.19	654009.19	
7926.00	57.17	199.19	7432.15	-956.83	-1332.19	7.80	1274.09	483121.17	653999.81	
7957.00	58.99	197.24	7448.55	-981.83	-1340.41	7.94	1300.36	483096.17	653991.59	
7989.00	60.86	195.82	7464.58	-1008.37	-1348.28	6.99	1328.05	483069.63	653983.72	
8020.00	62.29	194.87	7479.34	-1034.66	-1355.50	5.34	1355.31	483043.34	653976.50	
8052.00	63.38	193.26	7493.95	-1062.28	-1362.41	5.62	1383.77	483015.72	653969.59	
8083.00	64.41	191.69	7507.59	-1089.46	-1368.42	5.63	1411.57	482988.54	653963.58	
8115.00	65.87	191.91	7521.04	-1117.88	-1374.36	4.60	1440.55	482960.12	653957.64	
8146.00	67.70	192.46	7533.26	-1145.72	-1380.37	6.12	1469.00	482932.28	653951.63	
8178.00	69.63	191.62	7544.90	-1174.87	-1386.59	6.51	1498.76	482903.13	653945.41	
8209.00	70.99	190.07	7555.35	-1203.54	-1392.08	6.43	1527.86	482874.46	653939.92	
8241.00	72.38	189.20	7565.40	-1233.49	-1397.16	5.05	1558.09	482844.51	653934.84	
8272.00	74.06	188.66	7574.35	-1262.81	-1401.77	5.67	1587.58	482815.19	653930.23	
8304.00	75.79	187.46	7582.68	-1293.40	-1406.10	6.51	1618.23	482784.60	653925.90	
8335.00	76.66	186.31	7590.06	-1323.29	-1409.71	4.57	1648.02	482754.71	653922.29	
8367.00	78.89	185.12	7596.83	-1354.41	-1412.82	7.86	1678.86	482723.59	653919.18	
8398.00	81.02	184.12	7602.24	-1384.83	-1415.28	7.57	1708.85	482693.17	653916.72	
8430.00	82.36	183.94	7606.86	-1416.41	-1417.51	4.22	1739.91	482661.59	653914.49	
8461.00	84.19	184.99	7610.50	-1447.11	-1419.90	6.79	1770.15	482630.89	653912.10	
8489.00	85.59	186.03	7612.99	-1474.86	-1422.58	6.22	1797.63	482603.14	653909.42	
8521.00	87.76	186.08	7614.84	-1506.63	-1425.95	6.78	1829.16	482571.37	653906.05	
8552.00	89.44	184.98	7615.60	-1537.48	-1428.94	6.48	1859.70	482540.52	653903.06	
8615.00	90.21	182.33	7615.79	-1600.34	-1432.95	4.38	1921.40	482477.66	653899.05	
8710.00	88.74	181.50	7616.67	-1695.28	-1436.13	1.78	2013.82	482382.72	653895.87	
8804.00	90.35	183.00	7617.41	-1789.20	-1439.82	2.34	2105.39	482288.80	653892.18	
8899.00	90.00	183.72	7617.12	-1884.03	-1445.38	0.84	2198.34	482193.97	653886.62	
8993.00	90.56	183.17	7616.66	-1977.86	-1451.03	0.84	2290.34	482100.14	653880.97	
9088.00	89.58	183.34	7616.55	-2072.71	-1456.43	1.05	2383.26	482005.29	653875.57	
9182.00	89.02	183.21	7617.69	-2166.55	-1461.80	0.61	2475.20	481911.45	653870.20	
9276.00	88.81	182.80	7619.47	-2260.40	-1466.72	0.49	2567.03	481817.60	653865.28	
9371.00	88.53	181.50	7621.68	-2355.31	-1470.29	1.40	2659.52	481722.69	653861.71	
9465.00	90.84	183.82	7622.20	-2449.19	-1474.65	3.48	2751.23	481628.81	653857.35	
9560.00	90.98	183.34	7620.69	-2543.99	-1480.58	0.53	2844.25	481534.01	653851.42	
9654.00	90.28	182.19	7619.65	-2637.88	-1485.11	1.43	2936.01	481440.12	653846.89	
9749.00	89.09	180.28	7620.18	-2732.85	-1487.16	2.37	3028.16	481345.15	653844.84	
9843.00	89.44	183.38	7621.38	-2826.78	-1490.16	3.32	3119.56	481251.22	653841.84	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 4/2/2014	Time: 13:10:34	Page: 4
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Federal 12 #3H, Grid North	
Site: Federal 12 #3H	Vertical (TVD) Reference:	SITE 3311.3	
Well: Federal 12 #3H	Section (VS) Reference:	Well (0.00N,0.00E,195.28Azi)	
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
9938.00	88.53	183.07	7623.07	-2921.61	-1495.51	1.01	3212.45	481156.39	653836.49	
10032.00	89.72	182.34	7624.50	-3015.49	-1499.94	1.49	3304.18	481062.51	653832.06	
10126.00	90.56	184.24	7624.27	-3109.33	-1505.34	2.21	3396.13	480968.67	653826.66	
10221.00	90.28	184.48	7623.57	-3204.06	-1512.56	0.39	3489.41	480873.94	653819.44	
10315.00	90.42	186.33	7623.00	-3297.63	-1521.41	1.97	3582.01	480780.37	653810.59	
10410.00	89.16	184.22	7623.35	-3392.22	-1530.14	2.59	3675.55	480685.78	653801.86	
10505.00	87.97	183.09	7625.73	-3487.00	-1536.20	1.73	3768.57	480591.00	653795.80	
10599.00	88.67	183.54	7628.48	-3580.80	-1541.63	0.89	3860.49	480497.20	653790.37	
10694.00	89.30	184.01	7630.17	-3675.58	-1547.89	0.83	3953.57	480402.42	653784.11	
10788.00	89.65	184.05	7631.03	-3769.34	-1554.49	0.37	4045.76	480308.66	653777.51	
10883.00	90.14	183.18	7631.20	-3864.15	-1560.48	1.05	4138.79	480213.85	653771.52	
10977.00	90.00	182.28	7631.09	-3958.04	-1564.96	0.97	4230.55	480119.96	653767.04	
11072.00	90.70	184.61	7630.51	-4052.86	-1570.67	2.56	4323.52	480025.14	653761.33	
11166.00	90.84	184.35	7629.24	-4146.57	-1578.01	0.31	4415.84	479931.43	653753.99	
11261.00	91.19	183.47	7627.56	-4241.33	-1584.49	1.00	4508.96	479836.67	653747.51	
11355.00	89.16	183.07	7627.27	-4335.17	-1589.85	2.20	4600.90	479742.83	653742.15	
11449.00	89.93	184.96	7628.02	-4428.93	-1596.43	2.17	4693.08	479649.07	653735.57	
11544.00	87.90	183.22	7629.82	-4523.66	-1603.20	2.81	4786.25	479554.34	653728.80	
11638.00	87.55	184.02	7633.55	-4617.40	-1609.13	0.93	4878.24	479460.60	653722.87	
11733.00	88.39	183.28	7636.92	-4712.15	-1615.18	1.18	4971.23	479365.85	653716.82	
11827.00	90.35	183.65	7637.95	-4805.97	-1620.86	2.12	5063.23	479272.03	653711.14	
11922.00	90.63	183.38	7637.14	-4900.78	-1626.68	0.41	5156.23	479177.22	653705.32	
12016.00	90.14	182.14	7636.50	-4994.67	-1631.21	1.42	5247.99	479083.33	653700.79	
12111.00	90.70	182.31	7635.81	-5089.59	-1634.90	0.62	5340.53	478988.41	653697.10	
12206.00	91.26	181.43	7634.18	-5184.53	-1638.00	1.10	5432.92	478893.47	653694.00	
12300.00	90.42	182.60	7632.81	-5278.46	-1641.30	1.53	5524.40	478799.54	653690.70	
12394.00	89.58	183.92	7632.81	-5372.30	-1646.65	1.66	5616.34	478705.70	653685.35	
12489.00	89.79	184.45	7633.33	-5467.05	-1653.58	0.60	5709.56	478610.95	653678.42	
12584.00	89.37	185.37	7634.02	-5561.70	-1661.71	1.06	5803.01	478516.30	653670.29	
12678.00	90.07	184.43	7634.48	-5655.35	-1669.74	1.25	5895.47	478422.65	653662.26	
12773.00	91.05	184.12	7633.56	-5750.08	-1676.82	1.08	5988.71	478327.92	653655.18	
12867.00	90.42	184.16	7632.35	-5843.83	-1683.60	0.67	6080.93	478234.17	653648.40	
12962.00	89.02	183.58	7632.81	-5938.61	-1690.02	1.60	6174.05	478139.39	653641.98	
13056.00	90.14	183.50	7633.50	-6032.42	-1695.82	1.19	6266.08	478045.58	653636.18	
13151.00	88.53	183.21	7634.61	-6127.25	-1701.38	1.72	6359.02	477950.75	653630.62	
13200.00	87.97	182.52	7636.10	-6176.17	-1703.83	1.81	6406.85	477901.83	653628.17	Last WFT Svy
13257.00	87.97	182.52	7638.12	-6233.07	-1706.33	0.00	6462.41	477844.93	653625.67	Proj to Bit

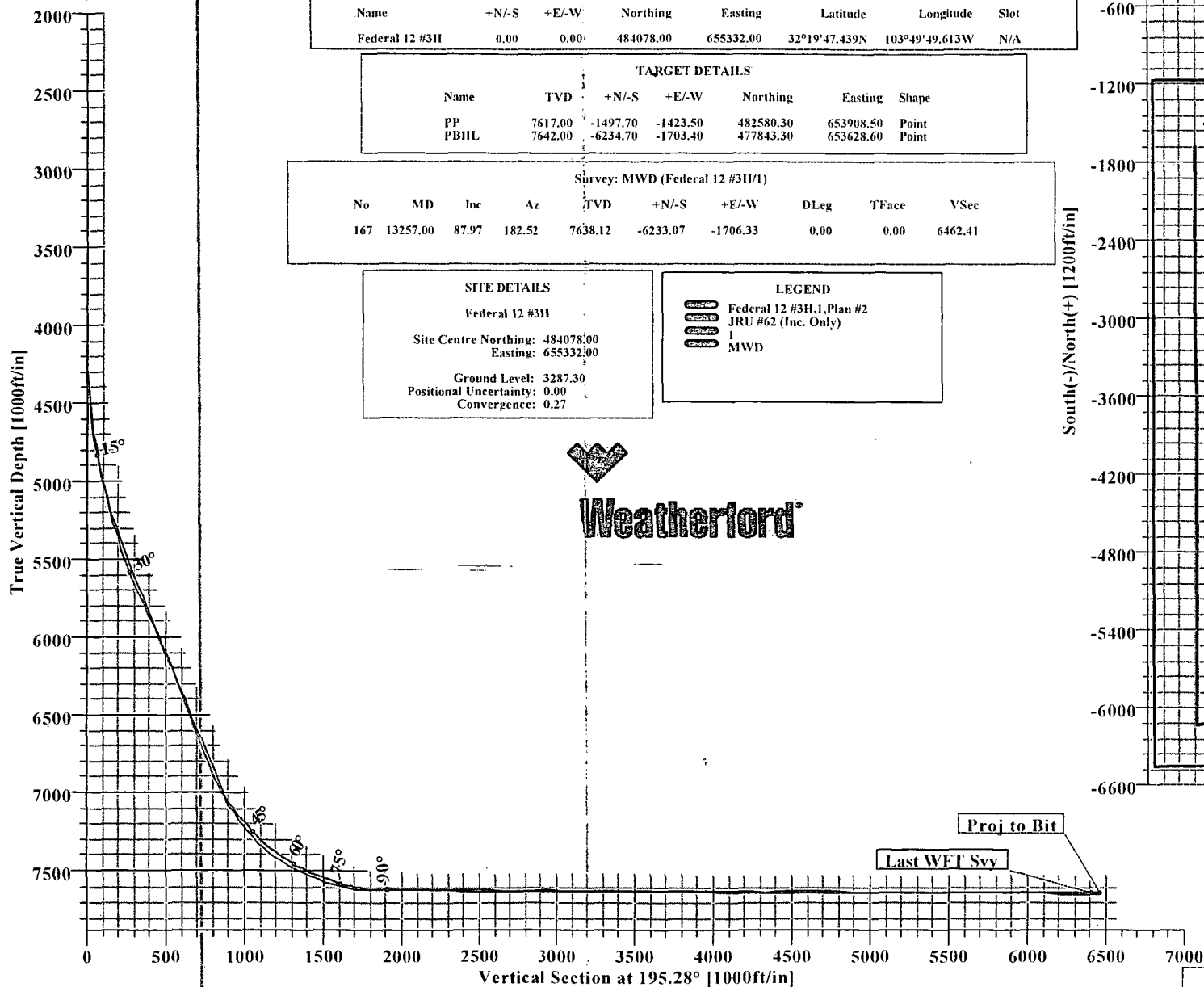
Annotation

MD ft	TVD ft	
500.00	499.85	First WFT Svy
13200.00	7636.10	Last WFT Svy
13257.00	7638.12	Proj to Bit



Federal 12 #3H Eddy Co, New Mexico

KB ELEV: 3311.30
GL ELEV: 3287.3



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	0.0000	0.00	0.00	
2	4100.00	0.00	0.00	4100.00	0.00	0.00	0.0000	0.00	0.00	
3	5600.50	30.01	240.54	5532.83	-188.89	-334.40	2.0000	240.54	270.34	
4	7283.75	30.01	240.54	6990.42	-602.94	-1067.42	0.0000	0.00	862.94	
5	8516.51	89.69	183.42	7617.00	-1497.70	-1423.50	6.0004	-60.90	1819.92	PP
6	13261.84	89.70	183.34	7642.00	-6234.70	-1703.40	0.0016	-84.13	6463.21	PBHL

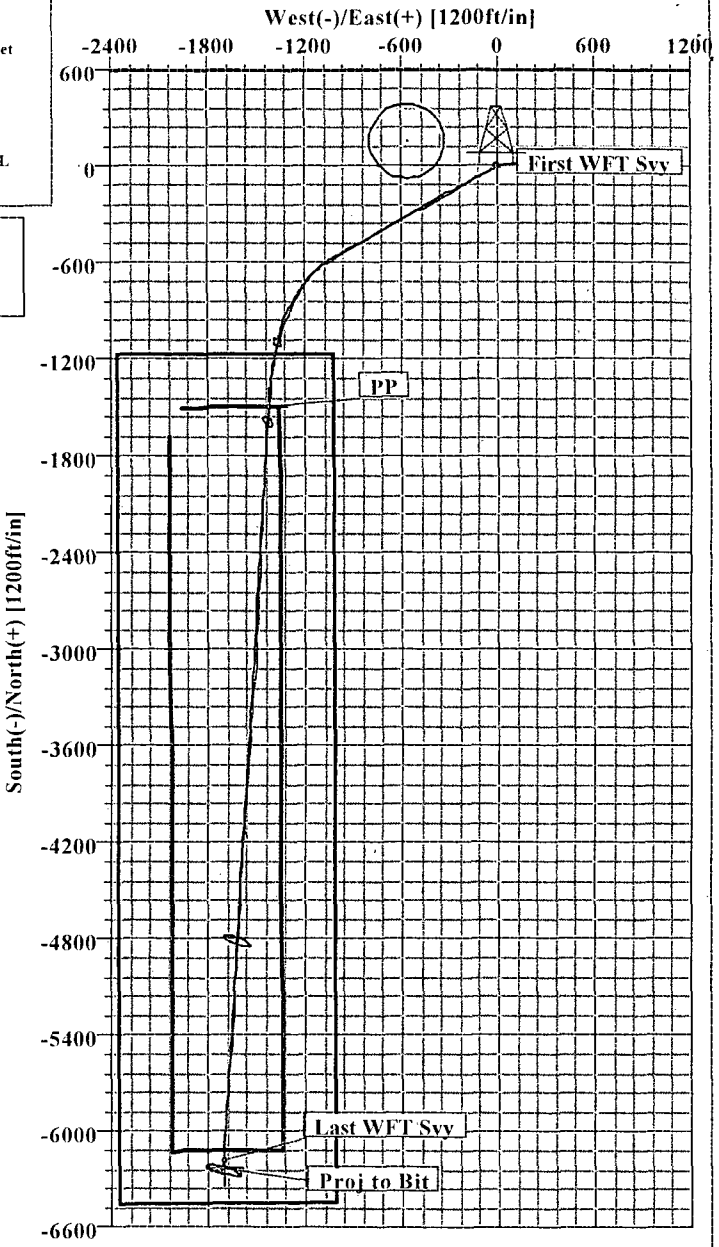
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Federal 12 #3H	0.00	0.00	484078.00	655332.00	32°19'47.439N	103°49'49.613W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PP	7617.00	-1497.70	-1423.50	482580.30	653908.50	Point
PBHL	7642.00	-6234.70	-1703.40	477843.30	653628.60	Point

Survey: MWD (Federal 12 #3H/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
167	13257.00	87.97	182.52	7638.12	-6233.07	-1706.33	0.00	0.00	6462.41

SITE DETAILS
Federal 12 #3H
Site Centre Northing: 484078.00
Easting: 655332.00
Ground Level: 3287.30
Positional Uncertainty: 0.00
Convergence: 0.27

LEGEND
Federal 12 #3H, 1, Plan #2
JRU #62 (Inc. Only)
I
MWD



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico **NM OIL CONSERVATION**
Energy, Minerals & Natural Resources Department
ARTESIA DISTRICT
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

RECEIVED

☒ AMENDED REPORT

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-41345	Pool Code 50443	Pool Name Quachada Ridge Delaware, SE
Property Code 39554	Property Name FEDERAL "12"	Well Number 3H
OGRID No. 157984	Operator Name Occidental Permian LP	Elevation 3287.3'

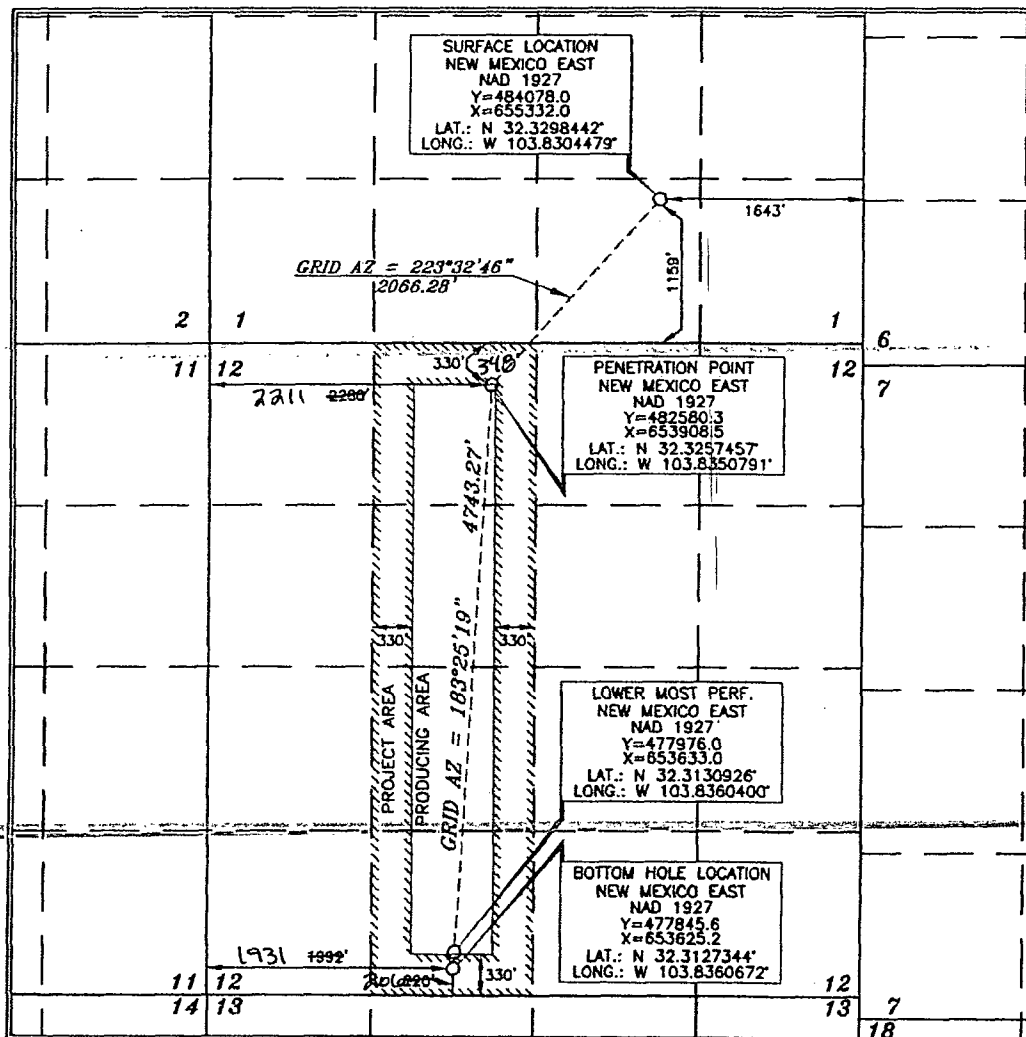
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	1	23 SOUTH	30 EAST, N.M.P.M.		1159'	SOUTH	1643'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	23 SOUTH	30 EAST, N.M.P.M.		220' 206	SOUTH	1992' 1931	WEST	EDDY
Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No. Top Part - 8507' 348 FNL 2211 FWL Sec 12 Bottom Part - 1272 689 FSL 1960 FWL " "						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: David Stewart Date: 2/25/14
Printed Name: David Stewart SR Reg. Adv.
E-mail Address: david.stewart@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of accurate surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: JUNE 28, 2011
Signature and Seal of Professional Surveyor: Jerry J. Paul
Certificate Number: 15079

WO# 110628WL-c (Rev. B) (KA)

Occidental Permian LP
Federal 12 #3H
API No. 30-015-41345

14-3/4" hole @ 364'
11-3/4" csg @ 364'
w/ 310sx-TOC-Surf-Circ

10-5/8" hole @ 3930'
8-5/8" csg @ 3915'
w/ 850sx-TOC-Surf-Circ

7-7/8" hole @ 13257'
5-1/2" csg @ 13256'
DVT @ 4009'
w/ 1510sx-TOC-Surf-Circ

Perfs @ 8507-12772'

TD-13257'M 7638'V

Submit within 45 days of well completion State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	Revised November 8, 2013 1. Well API NO: 30-015-41345 2. Well Name: FEDERAL 12 #003H 3. Well Number: 003H	4. Surface Hole Location: Unit O Lot O Section 1 Township 23S Range 30E Feet from 1159 NS Line S Feet from 1643 E/W Line E 5. Bottom Hole Location: Unit O Lot O Section 1 Township 23S Range 30E Feet from 1159 NS Line S Feet from 1643 E/W Line E 6. Latitude: 32 3299549553253 Longitude: -103 830974372048 7. County: Eddy				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment						
8. Operator Name and Address: OCCIDENTAL PERMIAN LTD PO Box 4294 Houston 77210		9. OGRID: 157984 10. Phone Number: 713-366-5485				
11. Last Fracture Date: 5/4/2014 Frac Performed by: Nabors		12. Production Type: O				
13. Pool Code(s): 50443 15. True Vertical Depth (TVD): 7,638 ft		14. Gross Fractured Interval: 8,507 ft to 12,772 ft 16. Total Volume of Fluid Pumped: 1,310,190 gals				
17. Total Volume of Re-Use Water Pumped: N/A		18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed				
19. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:						
Trade Name	Supplier	Purpose	Ingredients	CAS # Chemical Abstract Service #	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)
Water	OCCIDENTAL PETROLEUM	Water	Water	7732-18-5	100%	82.43061%
HCl Acid (12.5% -18.0%)	Nabors Completion and Production Services	Bulk Acid	Hydrogen Chloride	7647-01-0	18%	0.16647%
Acid Inhibitor 3M (Al-3M)	Nabors Completion and Production Services	Acid Corrosion Inhibitors	1-DECANOL 1-OCTANOL 2-Butoxyethanol Cinnamaldehyde Ethoxylated Nonylphenol Ethylene Glycol Isopropyl Alcohol N,N-Dimethylformamide Triethyl Phosphate	112-30-1 111-87-5 111-76-2 104-65-2 68412-54-4 107-21-1 67-63-0 68-12-2 78-40-0	5% 2.5% 7% 6% 5% 40% 2.5% 20% 2.5%	9E-05% 5E-05% 0.00013% 0.00011% 9E-05% 0.00075% 5E-05% 0.00038% 5E-05%
KR-153SL	Nabors Completion and Production Services	Biocides	2,2-dibromo-3-nitropropionamide Polyethylene Glycol	10222-01-2 25322-68-3	20% 50%	0.00435% 0.01087%
Clay Treat LT	Nabors Completion and Production Services	Clay Control Additives	Water	7732-18-5	65%	0.05732%
OB Breaker	Nabors Completion and Production Services	Gel Breakers	Ammonium Persulfate	7727-54-0	100%	0.00211%
LSG-100	Nabors Completion and Production Services	Gelling Agents	guar gum Petroleum Distillates Surfactant	9000-30-0 64742-47-8 68439-51-0	50% 60% 2%	0.14969% 0.17963% 0.00599%
Super LT Resin Activator	Nabors Completion and Production Services	Proppants - Manufactured	Isopropyl Alcohol Proprietary	67-63-0 Proprietary	60% 80%	0.0336% 0.04479%
Super OW-3	Nabors Completion and Production Services	Surfactants & Foamers	Dimethylcocoamine, bis (chloroethyl) ether, diguaternary ammonium salt Isopropyl Alcohol Methanol	68607-28-3 67-63-0 67-56-1	60% 60% 30%	0.00048% 0.00048% 0.00024%
TX Specific 16/30 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - Texas	Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide	1344-28-1 14808-60-7 1309-37-1 13463-67-7	1.1% 99.9% 0.1% 0.1%	0.09195% 8.35028% 0.00836% 0.00836%
TX Specific 20/40 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - Texas	Aluminum Oxide Crystalline Silica, quartz Iron Oxide Titanium Oxide	1344-28-1 14808-60-7 1309-37-1 13463-67-7	1.1% 99.9% 0.1% 0.1%	0.09212% 2.91667% 0.00292% 0.00292%
Momentive SpherProp 16/30	Nabors Completion and Production Services	Proppants - Manufactured - Momentive	Crystalline Silica (Quartz) phenolic resin	14808-60-7 9003-35-4	85% 20%	4.06771% 0.91409%
XL-11	Nabors Completion and Production Services	Cross-linkers	Ethylene Glycol Potassium Hydroxide Potassium Metaborate Water	107-21-1 1310-58-3 13709-94-9 7732-18-5	10% 5% 30% 75%	0.01548% 0.00774% 0.04643% 0.11608%
Super Sum-240 E	Nabors Completion and Production Services	Surfactants & Foamers	Alcohol Ethoxylate Surfactants Methyl Alcohol Water	Proprietary Proprietary 67-56-1 7732-18-5	20% 20% 80%	0.02814% 0.02814% 0.11254%
SUPER TSC-LTS	Nabors Completion and Production Services	Paraffin & Scale Additives	Water	7732-18-5	60%	0.01161%
IC-500	Nabors Completion and Production Services	Iron Control Additives	2-Mercaptoethanol or Thioglycol Aqua Ammonia Cupric Chloride	60-24-2 1336-21-6 10125-13-0	75% 5% 7%	0.00218% 0.00015% 0.00072%
Super GREEN SOLV-M	Nabors Completion and Production Services	Paraffin & Scale Additives	Aliphatic Hydrocarbons Dodecane Tetradecane Tridecane Undecane	Proprietary Proprietary Proprietary Proprietary Proprietary	95% 14% 1.1% 9% 8%	0.00341% 0.00035% 0.00044% 0.00032% 0.00029%
EXP-F0829-13	Nabors Completion and Production Services	Gel Breakers	Hemicellulase Enzyme	Proprietary	1%	5E-05%

20. I, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief.

Signature: Signed Electronically Printed Name: David Stewart Title: Sr. Regulatory Advisor
 Date: 7/10/2014
 E-mail Address: david.stewart@oxy.com

NMOCDO does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCDO does not require the reporting or disclosure of proprietary, trade secret or confidential business information.