



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: December 5, 2014

Attention: Ricardo Vilorio

Re: Occidental Permian Ltd
Well: Federal 12 #2H
Eddy County, New Mexico

30-015-41344

NM OIL CONSERVATION

ARTESIA DISTRICT

DEC 11 2014

RECEIVED

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:

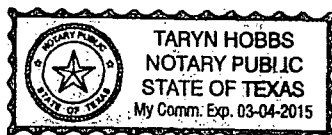
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Ryan Broadfoot MWD Supervisor	2H	500' MD 12757' MD	3-18-2014 4-05-2014	Measurement While Drilling

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 5th day of December, 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 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: 4/7/2014	Time: 06:57:28	Page: 1
Field: Eddy Co. NM (Nad 27)	Co-ordinate(N/E) Reference:	Well: Federal 12 #2H, Grid North	
Site: Federal 12 #2H	Vertical (TVD) Reference:	SITE 3311.9	
Well: Federal 12 #2H	Section (VS) Reference:	Well (0.00N, 0.00E, 184.24Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Start Date:

Company: Engineer:
Tool: Tied-to:

Site: Federal 12 #2H

Site Position:	Northing:	484078.60 ft	Latitude:	32 19 47.441 N
From: Map	Easting:	655432.00 ft	Longitude:	103 49 48.447 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3287.90 ft		Grid Convergence:	0.27 deg

Well: Federal 12 #2H Slot Name:

Well Position:	+N/S	0.00 ft	Northing:	484078.60 ft	Latitude:	32 19 47.441 N
	+E/W	0.00 ft	Easting:	655432.00 ft	Longitude:	103 49 48.447 W
Position Uncertainty:	0.00 ft					

Wellpath: 1	Drilled From:	Surface
Current Datum: SITE	Tie-on Depth:	0.00 ft
Magnetic Data: 2/15/2013	Above System Datum:	Mean Sea Level
Field Strength: 48488 nT	Declination:	7.62 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle:	60.16 deg
	+N/S	Direction
	ft	deg
0.00	0.00	0.00 184.24

Survey Program for Definitive Wellpath

Date: 4/7/2014	Validated: No	Version: 0
Actual From	To	Survey
ft	ft	
0.00	12820.00	MWD (0.00-12820.00)
		MWD
		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	484078.60	655432.00	First WFT Svy
500.00	1.27	288.01	499.96	1.71	-5.27	0.25	-1.32	484080.31	655426.73	
633.00	1.34	286.48	632.92	2.61	-8.16	0.06	-2.00	484081.21	655423.84	
695.00	1.89	285.43	694.90	3.09	-9.84	0.89	-2.35	484081.69	655422.16	
787.00	0.31	323.30	786.88	3.69	-11.45	1.80	-2.83	484082.29	655420.55	
879.00	0.43	54.71	878.88	4.09	-11.32	0.58	-3.24	484082.69	655420.68	
971.00	0.35	61.77	970.88	4.42	-10.79	0.10	-3.61	484083.02	655421.21	
1066.00	0.21	22.29	1065.88	4.72	-10.47	0.24	-3.93	484083.32	655421.53	
1160.00	0.16	335.71	1159.88	5.00	-10.46	0.16	-4.21	484083.60	655421.54	
1443.00	0.07	234.77	1442.88	5.26	-10.76	0.07	-4.45	484083.86	655421.24	
1538.00	0.22	244.53	1537.87	5.15	-10.97	0.16	-4.32	484083.75	655421.03	
1632.00	0.16	199.84	1631.87	4.95	-11.18	0.16	-4.11	484083.55	655420.82	
1821.00	0.22	173.39	1820.87	4.34	-11.23	0.06	-3.50	484082.94	655420.77	
1916.00	0.25	188.84	1915.87	3.95	-11.24	0.07	-3.11	484082.55	655420.76	
2010.00	0.21	208.66	2009.87	3.60	-11.36	0.09	-2.75	484082.20	655420.64	
2199.00	0.21	175.53	2198.87	2.95	-11.49	0.06	-2.09	484081.55	655420.51	
2294.00	0.35	186.78	2293.87	2.49	-11.52	0.16	-1.63	484081.09	655420.48	
2388.00	0.35	188.14	2387.87	1.92	-11.59	0.01	-1.06	484080.52	655420.41	
2483.00	0.21	205.04	2482.87	1.47	-11.70	0.17	-0.60	484080.07	655420.30	
2577.00	0.16	215.16	2576.87	1.21	-11.85	0.06	-0.33	484079.81	655420.15	
2671.00	0.20	182.91	2670.87	0.94	-11.94	0.11	-0.05	484079.54	655420.06	
2766.00	0.25	179.58	2765.86	0.57	-11.94	0.05	0.32	484079.17	655420.06	
2861.00	0.22	209.85	2860.86	0.20	-12.03	0.13	0.69	484078.80	655419.97	
2955.00	0.10	223.32	2954.86	-0.02	-12.18	0.13	0.92	484078.58	655419.82	
3049.00	0.56	147.66	3048.86	-0.46	-11.99	0.58	1.35	484078.14	655420.01	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd. Date: 4/7/2014 Time: 06:57:28 Page: 2
 Field: Eddy Co. NM (Nad 27) Co-ordinate(NE) Reference: Well: Federal 12 #2H, Grid North
 Site: Federal 12 #2H Vertical (TVD) Reference: SITE 3311.9
 Well: Federal 12 #2H Section (VS) Reference: Well (0.00N, 0.00E, 184.24Az)
 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
3144.00	1.55	136.88	3143.84	-1.79	-10.86	1.06	2.59	484076.81	655421.14	
3238.00	1.64	115.62	3237.81	-3.30	-8.78	0.63	3.94	484075.30	655423.22	
3333.00	0.77	83.00	3332.79	-3.81	-6.92	1.13	4.31	484074.79	655425.08	
3427.00	0.78	67.51	3426.78	-3.49	-5.70	0.22	3.90	484075.11	655426.30	
3522.00	0.87	89.63	3521.77	-3.24	-4.38	0.35	3.55	484075.36	655427.62	
3616.00	0.91	92.74	3615.76	-3.27	-2.93	0.07	3.48	484075.33	655429.07	
3711.00	1.07	88.73	3710.74	-3.29	-1.29	0.18	3.37	484075.31	655430.71	
3805.00	0.94	89.63	3804.73	-3.26	0.36	0.14	3.23	484075.34	655432.36	
3905.00	0.75	79.75	3904.72	-3.14	1.83	0.24	3.00	484075.46	655433.83	
4087.00	0.45	259.36	4086.72	-3.06	2.30	0.66	2.88	484075.54	655434.30	
4182.00	2.39	245.61	4181.68	-3.95	0.13	2.06	3.93	484074.65	655432.13	
4276.00	4.38	248.51	4275.51	-6.07	-5.00	2.12	6.43	484072.53	655427.00	
4371.00	6.55	258.20	4370.08	-8.51	-13.68	2.47	9.50	484070.09	655418.32	
4465.00	8.60	252.58	4463.25	-11.71	-25.64	2.32	13.57	484066.89	655406.36	
4560.00	11.07	252.83	4556.85	-16.53	-41.13	2.60	19.53	484062.07	655390.87	
4591.00	11.48	252.42	4587.25	-18.34	-46.91	1.35	21.76	484060.26	655385.09	
4654.00	12.79	244.08	4648.85	-23.28	-59.16	3.47	27.59	484055.32	655372.84	
4748.00	14.29	226.50	4740.27	-35.82	-76.94	4.64	41.41	484042.78	655355.06	
4843.00	15.57	216.62	4832.08	-54.13	-93.06	2.99	60.86	484024.47	655338.94	
4937.00	16.48	200.53	4922.47	-76.75	-105.27	4.81	84.33	484001.85	655326.73	
5032.00	16.57	194.15	5013.55	-102.51	-113.30	1.91	110.61	483976.09	655318.70	
5126.00	17.08	185.70	5103.54	-129.25	-117.95	2.66	137.61	483949.35	655314.05	
5221.00	17.33	183.01	5194.29	-157.26	-120.08	0.88	165.71	483921.34	655311.92	
5315.00	16.93	174.71	5284.14	-184.87	-119.55	2.63	193.21	483893.73	655312.45	
5410.00	15.82	169.95	5375.28	-211.40	-116.02	1.83	219.40	483867.20	655315.98	
5504.00	15.24	170.17	5465.85	-236.19	-111.67	0.62	243.80	483842.41	655320.33	
5599.00	14.22	170.75	5557.73	-260.01	-107.67	1.08	267.26	483818.59	655324.33	
5693.00	15.33	172.33	5648.62	-283.72	-104.15	1.26	290.64	483794.88	655327.85	
5788.00	13.83	165.74	5740.56	-307.17	-99.68	2.35	313.70	483771.43	655332.32	
5882.00	13.47	166.23	5831.91	-328.69	-94.30	0.40	334.77	483749.91	655337.70	
5977.00	13.54	166.53	5924.28	-350.25	-89.08	0.10	355.88	483728.35	655342.92	
6071.00	13.59	165.88	6015.66	-371.67	-83.82	0.17	376.85	483706.93	655348.18	
6166.00	13.15	166.51	6108.09	-393.00	-78.58	0.49	397.73	483685.60	655353.42	
6260.00	13.09	173.35	6199.64	-413.97	-74.85	1.65	418.37	483664.63	655357.15	
6355.00	12.96	173.57	6292.19	-435.24	-72.41	0.15	439.40	483643.36	655359.59	
6449.00	11.95	173.30	6383.98	-455.38	-70.10	1.08	459.32	483623.22	655361.90	
6544.00	10.87	173.58	6477.10	-474.05	-67.95	1.14	477.78	483604.55	655364.05	
6638.00	12.39	177.20	6569.17	-492.93	-66.46	1.79	496.50	483585.67	655365.54	
6733.00	12.51	177.67	6661.94	-513.39	-65.55	0.17	516.83	483565.21	655366.45	
6764.00	12.56	176.74	6692.20	-520.11	-65.22	0.67	523.51	483558.49	655366.78	
6796.00	12.06	177.94	6723.46	-526.93	-64.90	1.76	530.28	483551.67	655367.10	
6827.00	13.00	177.81	6753.72	-533.65	-64.65	3.03	536.97	483544.95	655367.35	
6859.00	14.21	177.86	6784.82	-541.17	-64.37	3.78	544.45	483537.43	655367.63	
6890.00	15.45	179.34	6814.79	-549.10	-64.18	4.18	552.34	483529.50	655367.82	
6922.00	16.76	182.35	6845.53	-557.97	-64.32	4.85	561.20	483520.63	655367.68	
6954.00	18.40	185.10	6876.04	-567.62	-64.96	5.74	570.86	483510.98	655367.04	
6985.00	20.42	186.54	6905.28	-577.86	-66.01	6.70	581.16	483500.74	655365.99	
7017.00	22.62	186.88	6935.04	-589.52	-67.38	6.89	592.89	483489.08	655364.62	
7048.00	24.47	186.27	6963.46	-601.82	-68.80	6.02	605.26	483476.78	655363.20	
7080.00	26.26	186.62	6992.38	-615.44	-70.34	5.61	618.96	483463.16	655361.66	
7111.00	28.02	186.78	7019.96	-629.49	-71.99	5.68	633.09	483449.11	655360.01	
7143.00	29.30	186.05	7048.04	-644.74	-73.70	4.15	648.42	483433.86	655358.30	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Federal 12 #2H
Well: Federal 12 #2H
Wellpath: 1

Date: 4/7/2014 Time: 06:57:28 Page: 3
Co-ordinate(NE) Reference: Well: Federal 12 #2H, Grid North
Vertical (TVD) Reference: SITE 3311.9
Section (VS) Reference: Well (0.00N,0.00E,184.24Azi)
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
7174.00	30.58	185.19	7074.90	-660.13	-75.21	4.35	663.89	483418.47	655356.79	
7206.00	31.94	184.70	7102.26	-676.68	-76.64	4.32	680.49	483401.92	655355.36	
7237.00	33.28	184.63	7128.37	-693.33	-78.00	4.32	697.20	483385.27	655354.00	
7269.00	35.04	184.35	7154.85	-711.24	-79.41	5.52	715.17	483367.36	655352.59	
7300.00	36.42	183.84	7180.01	-729.30	-80.70	4.55	733.27	483349.30	655351.30	
7332.00	38.00	183.15	7205.50	-748.61	-81.88	5.11	752.62	483329.99	655350.12	
7363.00	39.75	183.18	7229.63	-768.04	-82.95	5.65	772.07	483310.56	655349.05	
7395.00	41.44	183.46	7253.93	-788.82	-84.16	5.31	792.89	483289.78	655347.84	
7426.00	43.28	183.53	7276.83	-809.67	-85.43	5.94	813.77	483268.93	655346.57	
7458.00	44.81	183.95	7299.83	-831.87	-86.88	4.87	836.02	483246.73	655345.12	
7489.00	46.20	184.39	7321.56	-853.92	-88.49	4.60	858.13	483224.68	655343.51	
7521.00	48.01	184.73	7343.34	-877.29	-90.36	5.71	881.57	483201.31	655341.64	
7552.00	49.61	184.42	7363.75	-900.55	-92.22	5.22	904.90	483178.05	655339.78	
7583.00	51.37	184.24	7383.48	-924.39	-94.02	5.70	928.82	483154.21	655337.98	
7615.00	52.55	183.91	7403.19	-949.53	-95.81	3.78	954.02	483129.07	655336.19	
7646.00	53.76	183.23	7421.78	-974.29	-97.35	4.28	978.82	483104.31	655334.65	
7678.00	55.48	183.09	7440.31	-1000.34	-98.79	5.39	1004.91	483078.26	655333.21	
7709.00	57.14	182.49	7457.51	-1026.10	-100.05	5.59	1030.69	483052.50	655331.95	
7741.00	58.97	182.96	7474.44	-1053.23	-101.34	5.85	1057.84	483025.37	655330.66	
7772.00	61.03	183.53	7489.94	-1080.03	-102.86	6.83	1084.68	482998.57	655329.14	
7804.00	62.90	184.09	7504.98	-1108.21	-104.74	6.04	1112.92	482970.39	655327.26	
7835.00	65.18	184.32	7518.55	-1136.00	-106.78	7.39	1140.79	482942.60	655325.22	
7867.00	66.93	184.17	7531.53	-1165.17	-108.95	5.49	1170.03	482913.43	655323.05	
7898.00	68.88	184.65	7543.19	-1193.81	-111.16	6.45	1198.76	482884.79	655320.84	
7930.00	70.23	184.82	7554.37	-1223.69	-113.63	4.25	1228.74	482854.91	655318.37	
7961.00	71.65	185.02	7564.49	-1252.88	-116.14	4.62	1258.04	482825.72	655315.86	
7993.00	73.03	184.99	7574.20	-1283.25	-118.80	4.31	1288.52	482795.35	655313.20	
8024.00	74.85	184.85	7582.78	-1312.93	-121.36	5.89	1318.31	482765.67	655310.64	
8056.00	76.80	184.61	7590.61	-1343.85	-123.92	6.14	1349.33	482734.75	655308.08	
8087.00	78.52	184.18	7597.24	-1374.04	-126.24	5.71	1379.62	482704.56	655305.76	
8119.00	80.09	184.24	7603.18	-1405.40	-128.54	4.91	1411.06	482673.20	655303.46	
8150.00	81.78	184.28	7608.06	-1435.93	-130.82	5.45	1441.67	482642.67	655301.18	
8182.00	84.25	184.46	7611.95	-1467.60	-133.24	7.74	1473.43	482611.00	655298.76	
8213.00	86.15	184.43	7614.54	-1498.39	-135.63	6.13	1504.32	482580.21	655296.37	
8241.00	88.74	184.66	7615.79	-1526.28	-137.85	9.29	1532.29	482552.32	655294.15	
8428.00	88.39	184.81	7620.48	-1712.58	-153.28	0.20	1719.22	482366.02	655278.72	
8522.00	88.67	182.99	7622.89	-1806.33	-159.67	1.96	1813.19	482272.27	655272.33	
8617.00	91.12	183.91	7623.06	-1901.15	-165.39	2.75	1908.17	482177.45	655266.61	
8711.00	90.84	184.79	7621.45	-1994.86	-172.52	0.98	2002.16	482083.74	655259.48	
8806.00	90.56	185.72	7620.29	-2089.45	-181.22	1.02	2097.13	481989.15	655250.78	
8900.00	89.16	182.47	7620.52	-2183.20	-187.93	3.76	2191.12	481895.40	655244.07	
8994.00	88.60	183.38	7622.36	-2277.06	-192.72	1.14	2285.07	481801.54	655239.28	
9087.00	90.00	187.24	7623.50	-2369.63	-201.33	4.41	2378.03	481708.97	655230.67	
9182.00	88.81	186.60	7624.48	-2463.93	-212.77	1.42	2472.92	481614.67	655219.23	
9277.00	90.35	185.59	7625.18	-2558.39	-222.86	1.94	2567.86	481520.21	655209.14	
9371.00	88.74	181.89	7625.93	-2652.16	-228.99	4.29	2661.84	481426.44	655203.01	
9464.00	88.60	182.49	7628.08	-2745.07	-232.54	0.66	2754.75	481333.53	655199.46	
9559.00	88.67	180.48	7630.35	-2840.01	-235.00	2.12	2849.61	481238.59	655197.00	
9653.00	89.44	181.75	7631.90	-2933.97	-236.83	1.58	2943.45	481144.63	655195.17	
9747.00	89.16	182.48	7633.05	-3027.90	-240.30	0.83	3037.38	481050.70	655191.70	
9842.00	89.65	182.81	7634.03	-3122.80	-244.69	0.62	3132.34	480955.80	655187.31	
9935.00	90.14	184.26	7634.20	-3215.62	-250.42	1.65	3225.33	480862.98	655181.58	
10030.00	90.63	181.17	7633.57	-3310.50	-254.92	3.29	3320.28	480768.10	655177.08	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company:	Occidental Permian Ltd.	Date:	4/7/2014	Time:	06:57:28	Page:	4
Field:	Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Federal 12 #2H, Grid North				
Site:	Federal 12 #2H	Vertical (TVD) Reference:	SITE 3311.9				
Well:	Federal 12 #2H	Section (VS) Reference:	Well (0.00N 0.00E 184.24Azi)				
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
10124.00	88.67	180.53	7634.14	-3404.48	-256.31	2.19	3414.11	480674.12	655175.69	
10218.00	88.18	182.56	7636.72	-3498.40	-258.85	2.22	3507.97	480580.20	655173.15	
10313.00	88.32	184.18	7639.62	-3593.19	-264.43	1.71	3602.91	480485.41	655167.57	
10408.00	90.42	185.56	7640.67	-3687.84	-272.49	2.65	3697.89	480390.76	655159.51	
10502.00	90.70	187.27	7639.75	-3781.24	-282.99	1.84	3791.81	480297.36	655149.01	
10598.00	90.56	185.55	7638.69	-3876.63	-293.71	1.80	3887.73	480201.97	655138.29	
10692.00	90.56	185.75	7637.78	-3970.17	-302.97	0.21	3981.70	480108.43	655129.03	
10786.00	88.81	184.55	7638.29	-4063.78	-311.40	2.26	4075.68	480014.82	655120.60	
10880.00	89.93	186.48	7639.33	-4157.34	-320.44	2.37	4169.65	479921.26	655111.56	
10975.00	89.30	185.69	7639.96	-4251.80	-330.51	1.06	4264.60	479826.80	655101.49	
11068.00	89.37	185.34	7641.04	-4344.36	-339.44	0.38	4357.57	479734.24	655092.56	
11163.00	90.07	184.39	7641.51	-4439.01	-347.50	1.24	4452.56	479639.59	655084.50	
11257.00	90.14	186.51	7641.34	-4532.58	-356.43	2.26	4546.53	479546.02	655075.57	
11352.00	87.06	182.81	7643.66	-4627.21	-364.14	5.07	4641.47	479451.39	655067.86	
11447.00	86.64	182.66	7648.88	-4721.96	-368.67	0.47	4736.30	479356.64	655063.33	
11541.00	89.72	182.43	7651.86	-4815.81	-372.84	3.29	4830.20	479262.79	655059.16	
11636.00	89.02	181.80	7652.91	-4910.74	-376.35	0.99	4925.12	479167.86	655055.65	
11731.00	89.16	182.94	7654.42	-5005.64	-380.27	1.21	5020.06	479072.96	655051.73	
11825.00	90.84	183.30	7654.42	-5099.50	-385.39	1.83	5114.04	478979.10	655046.61	
11919.00	91.54	185.27	7652.46	-5193.21	-392.41	2.22	5208.01	478885.39	655039.59	
12015.00	89.09	182.82	7651.94	-5288.96	-399.18	3.61	5304.00	478789.64	655032.82	
12109.00	89.93	183.81	7652.74	-5382.80	-404.62	1.38	5397.98	478695.80	655027.38	
12203.00	89.51	181.75	7653.20	-5476.68	-409.18	2.24	5491.94	478601.92	655022.82	
12297.00	89.44	181.97	7654.06	-5570.62	-412.23	0.25	5585.86	478507.98	655019.77	
12392.00	89.02	182.47	7655.34	-5665.54	-415.91	0.69	5680.79	478413.06	655016.09	
12486.00	89.16	183.05	7656.83	-5759.42	-420.43	0.63	5774.74	478319.18	655011.57	
12581.00	89.58	184.06	7657.88	-5854.23	-426.32	1.15	5869.73	478224.37	655005.68	
12676.00	90.77	187.13	7657.58	-5948.77	-435.58	3.47	5964.69	478129.83	654996.42	
12757.00	89.02	186.04	7657.73	-6029.23	-444.87	2.55	6045.62	478049.37	654987.13	Last WFT Svy
12820.00	89.02	186.04	7658.81	-6091.87	-451.50	0.00	6108.58	477986.73	654980.50	Proj to Bit

Annotation

MD ft	TVD ft	
500.00	499.96	First WFT Svy
12757.00	7657.73	Last WFT Svy
12820.00	7658.81	Proj to Bit



Federal 12 #2H
Eddy Co, New Mexico

KB ELEV: 3313
GL ELEV: 3288



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	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4628.00	12.56	184.57	4622.99	-68.34	-5.46	2.00	184.57	68.56	
4	6934.99	12.56	184.57	6874.77	-568.43	-45.43	0.00	0.00	570.23	
5	8218.41	89.57	184.57	7622.01	-1490.31	-119.12	6.00	0.00	1495.04	
6	8240.66	89.57	184.13	7622.18	-1512.49	-120.81	2.00	270.02	1517.29	
7	12832.50	89.57	184.13	7657.00	-6092.30	-451.20	0.00	75.32	6108.99	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Federal 12 #2H	0.00	0.00	-484078.60	655432.00	32°19'47.441N	103°49'48.447W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PP	7622.00	-1489.80	-130.80	482588.80	655301.20	Point
PBHL	7657.00	-6092.30	-451.20	477986.30	654980.80	Point

Survey: MWD (Federal 12 #2H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
160	12820.00	89.02	186.04	7658.81	-6091.87	-451.50	0.00	180.00	6108.58

LEGEND

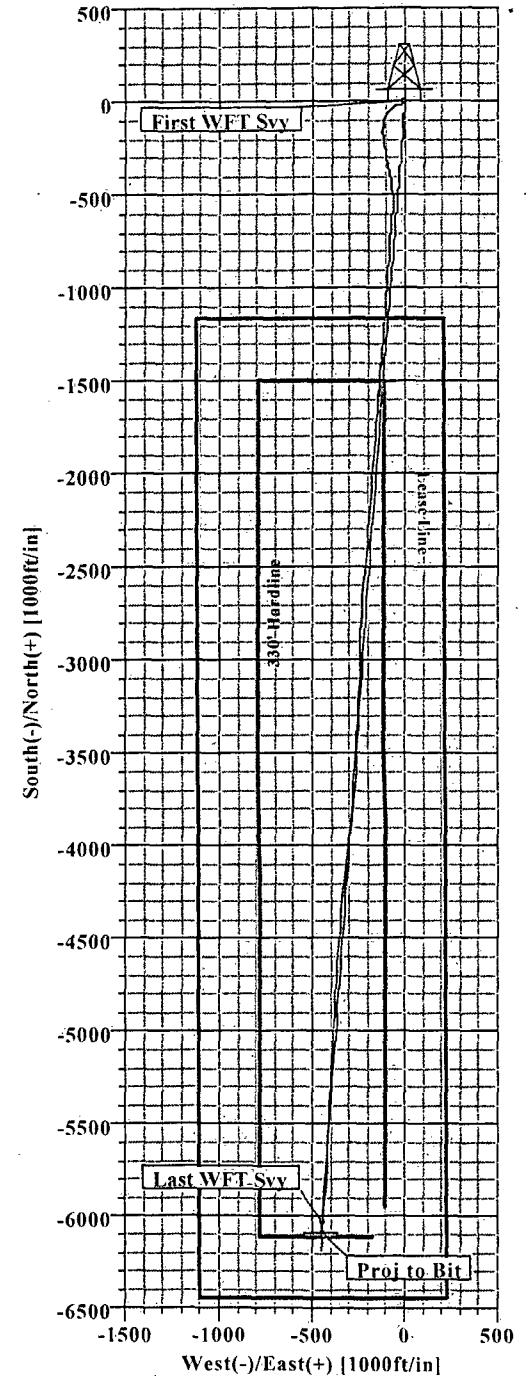
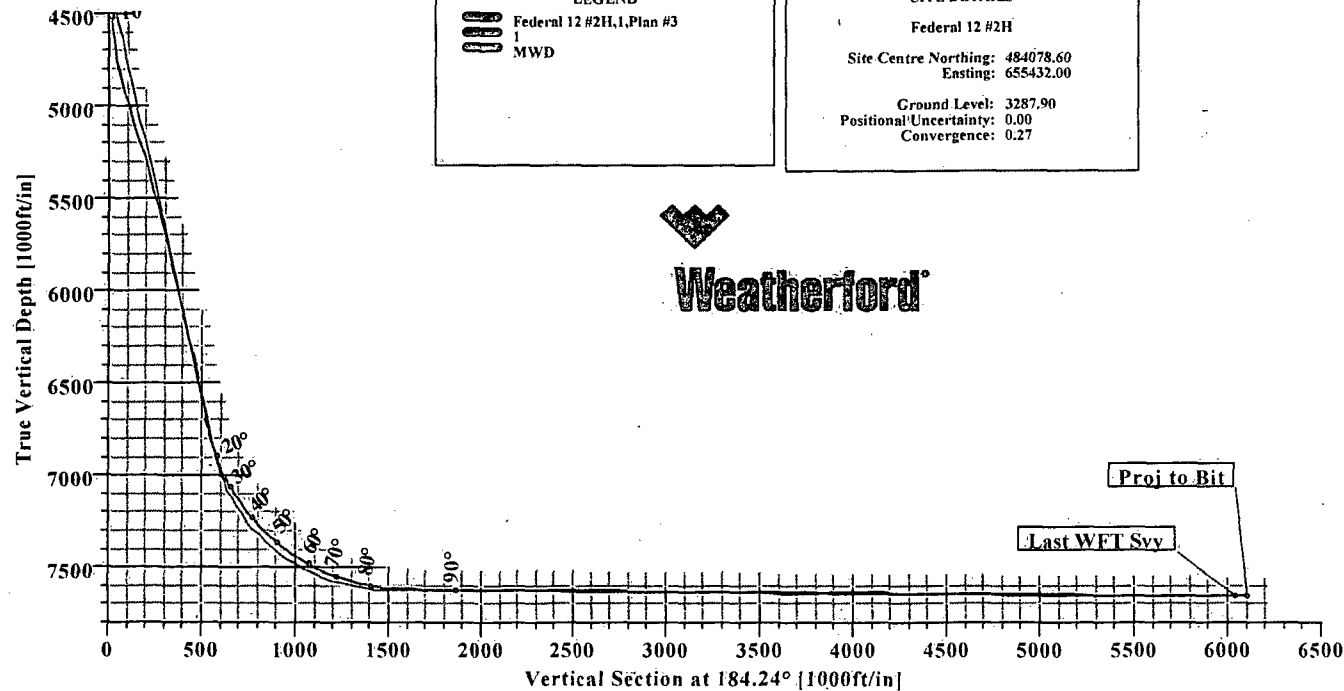
- Federal 12 #2H, I, Plan #3
- MWD

SITE DETAILS

Federal 12 #2H
Site Centre Northing: 484078.60
Easting: 655432.00
Ground Level: 3287.90
Positional Uncertainty: 0.00
Convergence: 0.27



Weatherford

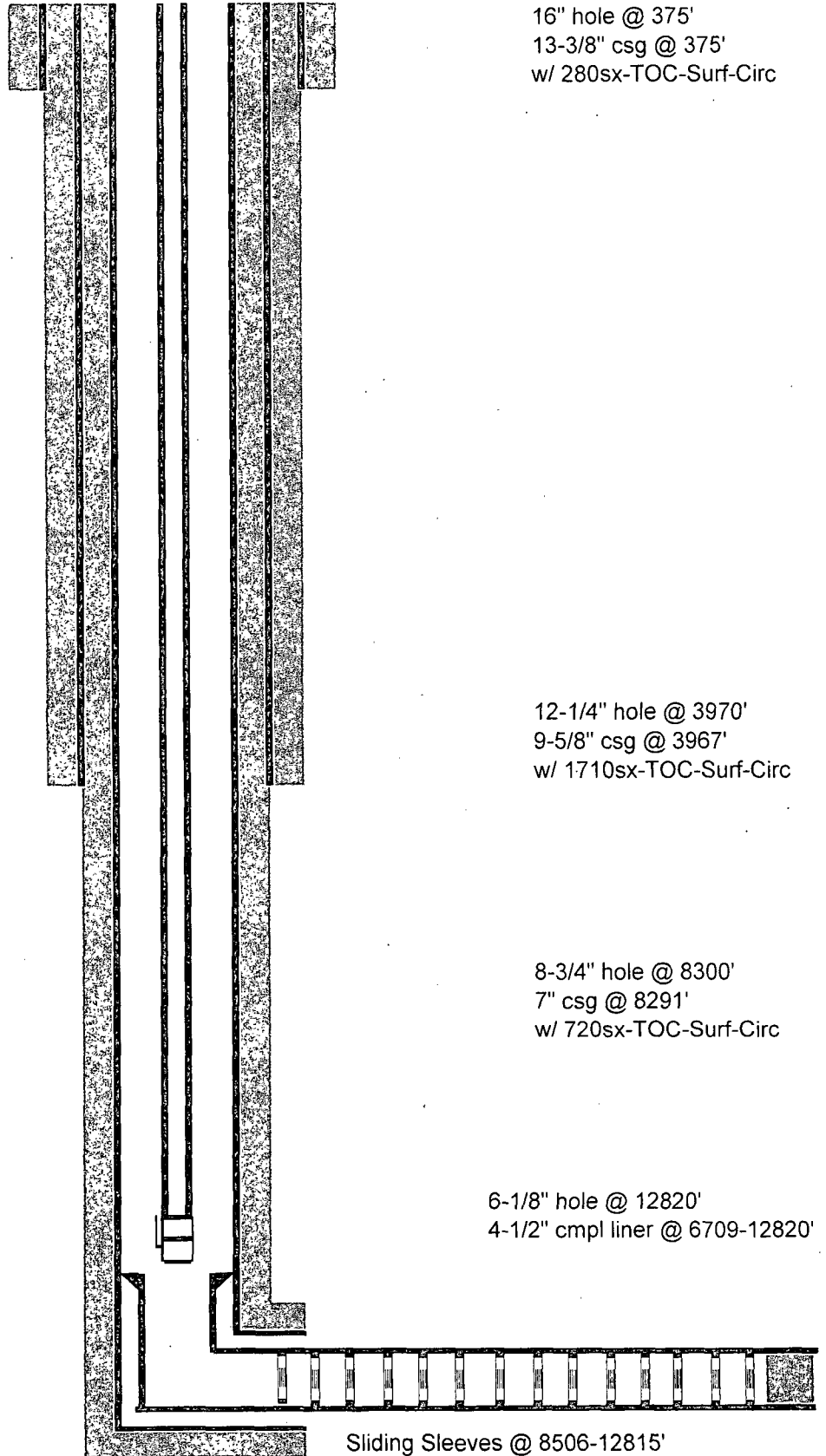


Survey: MWD (Federal 12 #2H/1)

Created By: Michael Dill

Date: 4/7/2014

Occidental Permian LP
Federal 12 #2H
API No. 30-015-41344



2-7/8" tbg w/ ESP @ 6572'

Sliding Sleeves @ 8506-12815'

TD-12820'M 7659'V

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505		Form No. 10-1 2015-1-15-154 FEDERAL OIL CONSERVATION DIVISION	
HYDRAULIC FRACTURING FLUID DISCLOSURE 1. Oilfield 2. Amendment		3. Well Name 4. Well Number 5. Well Status 6. Well Type 7. Well Depth 8. Well Completion 9. Well Production 10. Well Location 11. Well Operator 12. Well Owner 13. Well Lease 14. Well Survey 15. Well Section 16. Well Township 17. Well Range 18. Well County 19. Well State 20. Well Country	
21. Well Name 22. Well Number 23. Well Status 24. Well Type 25. Well Depth 26. Well Completion 27. Well Production 28. Well Location 29. Well Operator 30. Well Owner 31. Well Lease 32. Well Survey 33. Well Section 34. Well Township 35. Well Range 36. Well County 37. Well State 38. Well Country		39. Well Name 40. Well Number 41. Well Status 42. Well Type 43. Well Depth 44. Well Completion 45. Well Production 46. Well Location 47. Well Operator 48. Well Owner 49. Well Lease 50. Well Survey 51. Well Section 52. Well Township 53. Well Range 54. Well County 55. Well State 56. Well Country	
57. Well Name 58. Well Number 59. Well Status 60. Well Type 61. Well Depth 62. Well Completion 63. Well Production 64. Well Location 65. Well Operator 66. Well Owner 67. Well Lease 68. Well Survey 69. Well Section 70. Well Township 71. Well Range 72. Well County 73. Well State 74. Well Country			
75. Well Name 76. Well Number 77. Well Status 78. Well Type 79. Well Depth 80. Well Completion 81. Well Production 82. Well Location 83. Well Operator 84. Well Owner 85. Well Lease 86. Well Survey 87. Well Section 88. Well Township 89. Well Range 90. Well County 91. Well State 92. Well Country			
93. Well Name 94. Well Number 95. Well Status 96. Well Type 97. Well Depth 98. Well Completion 99. Well Production 100. Well Location 101. Well Operator 102. Well Owner 103. Well Lease 104. Well Survey 105. Well Section 106. Well Township 107. Well Range 108. Well County 109. Well State 110. Well Country			
111. Well Name 112. Well Number 113. Well Status 114. Well Type 115. Well Depth 116. Well Completion 117. Well Production 118. Well Location 119. Well Operator 120. Well Owner 121. Well Lease 122. Well Survey 123. Well Section 124. Well Township 125. Well Range 126. Well County 127. Well State 128. Well Country			
129. Well Name 130. Well Number 131. Well Status 132. Well Type 133. Well Depth 134. Well Completion 135. Well Production 136. Well Location 137. Well Operator 138. Well Owner 139. Well Lease 140. Well Survey 141. Well Section 142. Well Township 143. Well Range 144. Well County 145. Well State 146. Well Country			
147. Well Name 148. Well Number 149. Well Status 150. Well Type 151. Well Depth 152. Well Completion 153. Well Production 154. Well Location 155. Well Operator 156. Well Owner 157. Well Lease 158. Well Survey 159. Well Section 160. Well Township 161. Well Range 162. Well County 163. Well State 164. Well Country			
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183. Well Name 184. Well Number 185. Well Status 186. Well Type 187. Well Depth 188. Well Completion 189. Well Production 190. Well Location 191. Well Operator 192. Well Owner 193. Well Lease 194. Well Survey 195. Well Section 196. Well Township 197. Well Range 198. Well County 199. Well State 200. Well Country			
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525. Well Name 526. Well Number 527. Well Status 528. Well Type 529. Well Depth 530. Well Completion 531. Well Production 532. Well Location 533. Well Operator 534. Well Owner 535. Well Lease 536. Well Survey 537. Well Section 538. Well Township 539. Well Range 540. Well County 541. Well State 542. Well Country			
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561. Well Name 562. Well Number 563. Well Status 564. Well Type 565. Well Depth 566. Well Completion 567. Well Production 568. Well Location 569. Well Operator 570. Well Owner 571. Well Lease 572. Well Survey 573. Well Section 574. Well Township 575. Well Range 576. Well County 577. Well State 578. Well Country			
579. Well Name 580. Well Number 581. Well Status 582. Well Type 583. Well Depth 584. Well Completion 585. Well Production 586. Well Location 587. Well Operator 588. Well Owner 589. Well Lease 590. Well Survey 591. Well Section 592. Well Township 593. Well Range 594. Well County 595. Well State 596. Well Country			
597. Well Name 598. Well Number 599. Well Status 600. Well Type 601. Well Depth 602. Well Completion 603. Well Production 604. Well Location 605. Well Operator 606. Well Owner 607. Well Lease 608. Well Survey 609. Well Section 610. Well Township 611. Well Range 612. Well County 613. Well State 614. Well Country			
615. Well Name 616. Well Number 617. Well Status 618. Well Type 619. Well Depth 620. Well Completion 621. Well Production 622. Well Location 623. Well Operator 624. Well Owner 625. Well Lease 626. Well Survey 627. Well Section 628. Well Township 629. Well Range 630. Well County 631. Well State 632. Well Country			
633. Well Name 634. Well Number 635. Well Status 636. Well Type 637. Well Depth 638. Well Completion 639. Well Production 640. Well Location 641. Well Operator 642. Well Owner 643. Well Lease 644. Well Survey 645. Well Section 646. Well Township 647. Well Range 648. Well County 649. Well State 650. Well Country			
651. Well Name 652. Well Number 653. Well Status 654. Well Type 655. Well Depth 656. Well Completion 657. Well Production 658. Well Location 659. Well Operator 660. Well Owner 661. Well Lease 662. Well Survey 663. Well Section 664. Well Township 665. Well Range 666. Well County 667. Well State 668. Well Country			
669. Well Name 670. Well Number 671. Well Status 672. Well Type 673. Well Depth 674. Well Completion 675. Well Production 676. Well Location 677. Well Operator 678. Well Owner 679. Well Lease 680. Well Survey 681. Well Section 682. Well Township 683. Well Range 684. Well County 685. Well State 686. Well Country			
687. Well Name 688. Well Number 689. Well Status 690. Well Type 691. Well Depth 692. Well Completion 693. Well Production 694. Well Location 695. Well Operator 696. Well Owner 697. Well Lease 698. Well Survey 699. Well Section 700. Well Township 701. Well Range 702. Well County 703. Well State 704. Well Country			
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723. Well Name 724. Well Number 725. Well Status 726. Well Type 727. Well Depth 728. Well Completion 729. Well Production 730. Well Location 731. Well Operator 732. Well Owner 733. Well Lease 734. Well Survey 735. Well Section 736. Well Township 737. Well Range 738. Well County 739. Well State 740. Well Country			
741. Well Name 742. Well Number 743. Well Status 744. Well Type 745. Well Depth 746. Well Completion 747. Well Production 748. Well Location 749. Well Operator 750. Well Owner 751. Well Lease 752. Well Survey 753. Well Section 754. Well Township 755. Well Range 756. Well County 757. Well State 758. Well Country			
759. Well Name 760. Well Number 761. Well Status 762. Well Type 763. Well Depth 764. Well Completion 765. Well Production 766. Well Location 767. Well Operator 768. Well Owner 769. Well Lease 770. Well Survey 771. Well Section 772. Well Township 773. Well Range 774. Well County 775. Well State 776. Well Country			
777. Well Name 778. Well Number 779. Well Status 780. Well Type 781. Well Depth 782. Well Completion 783. Well Production 784. Well Location 785. Well Operator 786. Well Owner 787. Well Lease 788. Well Survey 789. Well Section 790. Well Township 791. Well Range 792. Well County 793. Well State 794. Well Country			
795. Well Name 796. Well Number 797. Well Status 798. Well Type 799. Well Depth 800. Well Completion 801. Well Production 802. Well Location 803. Well Operator 804. Well Owner 805. Well Lease 806. Well Survey 807. Well Section 808. Well Township 809. Well Range 810. Well County 811. Well State 812. Well Country			
813. Well Name 814. Well Number 815. Well Status 816. Well Type 817. Well Depth 818. Well Completion 819. Well Production 820. Well Location 821. Well Operator 822. Well Owner 823. Well Lease 824. Well Survey 825. Well Section 826. Well Township 827. Well Range 828. Well County 829. Well State 830. Well Country			
831. Well Name 832. Well Number 833. Well Status 834. Well Type 835. Well Depth 836. Well Completion 837. Well Production 838. Well Location 839. Well Operator 840. Well Owner 841. Well Lease 842. Well Survey 843. Well Section 844. Well Township 845. Well Range 846. Well County 847. Well State 848. Well Country			
849. Well Name 850. Well Number 851. Well Status 852. Well Type 853. Well Depth 854. Well Completion 855. Well Production 856. Well Location 857. Well Operator 858. Well Owner 859. Well Lease 860. Well Survey 861. Well Section 862. Well Township 863. Well Range 864. Well County 865. Well State 866. Well Country			
867. Well Name 868. Well Number 869. Well Status 870. Well Type 871. Well Depth 872. Well Completion 873. Well Production 874. Well Location 875. Well Operator 876. Well Owner 877. Well Lease 878. Well Survey 879. Well Section 880. Well Township 881. Well Range 882. Well County 883. Well State 884. Well Country			
885. Well Name 886. Well Number 887. Well Status 888. Well Type 889. Well Depth 890. Well Completion 891. Well Production 892. Well Location 893. Well Operator 894. Well Owner 895. Well Lease 896. Well Survey 897. Well Section 898. Well Township 899. Well Range 900. Well County 901. Well State 902. Well Country			
903. Well Name 904. Well Number 905. Well Status 906. Well Type 907. Well Depth 908. Well Completion 909. Well Production 910. Well Location 911. Well Operator 912. Well Owner 913. Well Lease 914. Well Survey 915. Well Section 916. Well Township 917. Well Range 918. Well County 919. Well State 920. Well Country			
921. Well Name 922. Well Number 923. Well Status 924. Well Type 925. Well Depth 926. Well Completion 927. Well Production 928. Well Location 929. Well Operator 930. Well Owner 931. Well Lease 932. Well Survey 933. Well Section 934. Well Township 935. Well Range 936. Well County 937. Well State 938. Well Country			
939. Well Name 940. Well Number 941. Well Status 942. Well Type 943. Well Depth 944. Well Completion 945. Well Production 946. Well Location 947. Well Operator 948. Well Owner 949. Well Lease 950. Well Survey 951. Well Section 952. Well Township 953. Well Range 954. Well County 955. Well State 956. Well Country			
957. Well Name 958. Well Number 959. Well Status 960. Well Type 961. Well Depth 962. Well Completion 963. Well Production 964. Well Location 965. Well Operator 966. Well Owner 967. Well Lease 968. Well Survey 969. Well Section 970. Well Township 971. Well Range 972. Well County 973. Well State 974. Well Country			
975. Well Name 976. Well Number 977. Well Status 978. Well Type 979. Well Depth 980. Well Completion 981. Well Production 982. Well Location 983. Well Operator 984. Well Owner 985. Well Lease 986. Well Survey 987. Well Section 988. Well Township 989. Well Range 990. Well County 991. Well State 992. Well Country			
993. Well Name 994. Well Number 995. Well Status 996. Well Type 997. Well Depth 998. Well Completion 999. Well Production 1000. Well Location 1001. Well Operator 1002. Well Owner 1003. Well Lease 1004. Well Survey 1005. Well Section 1006. Well Township 1007. Well Range 1008. Well County 1009. Well State 1010. Well Country			

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	7/23/2014
State:	NEW MEXICO
County:	EDDY
API Number:	30-015-41344
Operator Name:	Occidental Permian LP
Well Name and Number:	FEDERAL 12 2H
Longitude:	-103.8301286
Latitude:	32.32984194
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	7,659
Total Water Volume (gal):	202,690

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Acid Inhibitor 3M (AI)	Nabors Comp	Acid Corrosion Inhibitors	1-DECANOL	112-30-1	5.00%	0.00000%	
			1-OCTANOL	111-87-5	2.50%	0.00000%	
			2-Butoxyethanol	111-76-2	7.00%	0.00000%	
			Cinnamaldehyde	104-55-2	6.00%	0.00000%	
			Ethoxylated Nonyphenol	68412-54-4	5.00%	0.00000%	
			Ethylene Glycol	107-21-1	40.00%	0.00000%	
			Isopropyl Alcohol	67-63-0	2.50%	0.00000%	
			N,N-Dimethylformamide	68-12-2	20.00%	0.00000%	
			Triethyl Phosphate	78-40-0	2.50%	0.00000%	
HCl Acid (12.5%-18%)	Nabors Comp	Bulk Acid	20° Baume Hydrochloric Acid	7647-01-0	100.00%	0.00000%	
HCl Acid (12.5%-18%)	Nabors Comp	Bulk Acid	Water	7732-18-5	100.00%	0.00000%	
Clay Treat LT	Nabors Comp	Clay Control Additives	Water	7732-18-5	65.00%	0.00000%	
OB-2	Nabors Comp	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00%	0.00000%	
			Silica, crystalline quartz	7631-86-9	10.00%	0.00000%	
LSG-100	Nabors Comp	Gelling Agents	guar gum	9000-30-0	50.00%	0.00000%	
			Petroleum Distillates	64742-47-8	60.00%	0.00000%	
			Surfactant	68439-51-0	2.00%	0.00000%	
Super LT Resin Activ	Nabors Comp	Proppants - Manufacture	Isopropyl Alcohol	67-63-0	60.00%	0.00000%	
			Proprietary	Proprietary	80.00%	0.00000%	
Super OW-3	Nabors Comp	Surfactants & Foamers	Dimethylcocoamine, bis(chloroethyl) et	68607-28-3	60.00%	0.00000%	
			Isopropyl Alcohol	67-63-0	60.00%	0.00000%	
			Methanol	67-56-1	30.00%	0.00000%	
TX Specific 16/30 me	Nabors Comp	Sand - Bulk - Texas	Aluminum Oxide	1344-28-1	1.10%	0.00000%	
			Crystalline Silica, quartz	14808-60-7	99.90%	0.00000%	
			Iron Oxide	1309-37-1	0.10%	0.00000%	
			Titanium Oxide	13463-67-7	0.10%	0.00000%	
Momentive SiberPro	Nabors Comp	Proppants - Manufacture	Crystalline Silica (Quartz)	14808-60-7	89.00%	0.00000%	
			phenolic resin	9003-35-4	20.00%	0.00000%	

Hydraulic Fracturing Fluid Composition:

[illegible]

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.