



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: August 16, 2012

Attention: Bradley Brown

Re: Occidental Permian Ltd
Well: Federal 23 #7H
Eddy County, New Mexico

30-015-39436



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
Dave Latch MWD Supervisor	7	922' MD 12185' MD	7/18/2012 8/16/2012	Measurement While Drilling

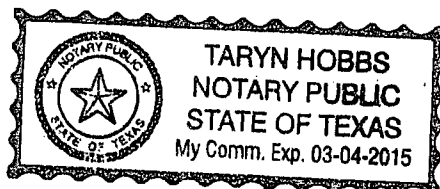
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 17th day of August, 2012, 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: 8/16/2012		Time: 07:02:21		Page: 1				
Field: Eddy Co, NM (Nad 27)		Co-ordinate (NE) Reference: Well: 7H, Grid North		Vertical (TVD) Reference: SITE 3592.3						
Site: Federal 23 7H		Section (VS) Reference: Well: 0.00N 0.00E 0.97Az		Survey Calculation Method: Minimum Curvature		Db: Sybase				
Well: 7H										
Wellpath: 1										
Survey: Wft Svy		Start Date: 7/23/2012								
Company: Weatherford International Ltd.		Engineer: Patrick Rudolph								
Tool: MWD;MWD - Standard		Tied-to: User Defined								
Field: Eddy Co, NM (Nad 27)										
Map System: US State Plane Coordinate System 1927				Map Zone: New Mexico, Eastern Zone						
Geo Datum: NAD27 (Clarke 1866)				Coordinate System: Well Centre						
Sys Datum: Mean Sea Level				Geomagnetic Model: IGRF2010						
Site: Federal 23 7H										
Site Position:		Northing: 498079.10 ft		Latitude: 32 22 4.753 N						
From: Map		Easting: 680003.10 ft		Longitude: 103 45 1.196 W						
Position Uncertainty: 0.00 ft				North Reference: Grid						
Ground Level: 3567.80 ft				Grid Convergence: 0.31 deg						
Well: 7H		Slot Name:								
Well Position: +N/-S 0.00 ft		Northing: 498079.10 ft		Latitude: 32 22 4.753 N						
+E/-W 0.00 ft		Easting: 680003.10 ft		Longitude: 103 45 1.196 W						
Position Uncertainty: 0.00 ft										
Wellpath: 1		Drilled From: Surface								
Current Datum: SITE		Height: 3592.30 ft		Tie-on Depth: 0.00 ft						
Magnetic Data: 8/1/2012				Above System Datum: Mean Sea Level						
Field Strength: 48596 nT				Declination: 7.54 deg						
Vertical Section: Depth From (TVD)		+N/-S		Mag Dip Angle: 60.26 deg						
ft		ft		+E/-W		Direction				
				ft		deg				
0.00		0.00		0.00		0.97				
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
842.88	5.01	181.25	842.09	-27.29	-3.44	0.00	-27.34	498051.81	679999.66	Tie on Gyro
890.00	4.83	181.71	889.04	-31.33	-3.54	0.39	-31.39	498047.77	679999.56	Csg
922.00	4.71	182.05	920.93	-33.99	-3.63	0.39	-34.05	498045.11	679999.47	First Wft Svy
984.00	4.40	180.88	982.73	-38.91	-3.76	0.52	-38.97	498040.19	679999.34	
1078.00	1.44	183.74	1076.60	-43.70	-3.89	3.15	-43.76	498035.40	679999.21	
1172.00	0.07	235.12	1170.59	-44.91	-4.02	1.49	-44.97	498034.19	679999.08	
1267.00	0.72	6.38	1265.59	-44.35	-4.00	0.81	-44.41	498034.75	679999.10	
1361.00	0.70	351.95	1359.58	-43.19	-4.01	0.19	-43.25	498035.91	679999.09	
1456.00	0.71	353.67	1454.57	-42.03	-4.16	0.02	-42.10	498037.07	679998.94	
1551.00	0.75	356.43	1549.57	-40.83	-4.26	0.06	-40.89	498038.27	679998.84	
1645.00	0.69	348.13	1643.56	-39.66	-4.42	0.13	-39.73	498039.44	679998.68	
1740.00	0.73	355.63	1738.55	-38.50	-4.58	0.11	-38.57	498040.60	679998.52	
1834.00	0.72	354.45	1832.54	-37.31	-4.68	0.02	-37.39	498041.79	679998.42	
1929.00	0.69	353.32	1927.54	-36.15	-4.81	0.03	-36.23	498042.95	679998.29	
2024.00	0.59	341.24	2022.53	-35.12	-5.03	0.18	-35.20	498043.98	679998.07	
2118.00	0.58	339.36	2116.53	-34.21	-5.35	0.02	-34.30	498044.89	679997.75	
2213.00	0.53	347.06	2211.52	-33.34	-5.62	0.09	-33.43	498045.76	679997.48	
2308.00	0.51	343.18	2306.52	-32.50	-5.84	0.04	-32.60	498046.60	679997.26	
2403.00	0.76	345.33	2401.51	-31.49	-6.12	0.26	-31.59	498047.61	679996.98	
2497.00	0.84	332.74	2495.50	-30.27	-6.60	0.20	-30.38	498048.83	679996.50	
2592.00	1.31	345.09	2590.49	-28.61	-7.20	0.55	-28.72	498050.49	679995.90	
2687.00	1.56	350.28	2685.46	-26.28	-7.69	0.30	-26.41	498052.82	679995.41	
2782.00	1.04	353.44	2780.43	-24.15	-8.01	0.55	-24.28	498054.95	679995.09	
2877.00	1.09	357.01	2875.41	-22.39	-8.16	0.09	-22.53	498056.71	679994.94	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company:	Occidental Permian Ltd.	Date:	8/16/2012	Time:	07:02:21	Page:	2
Field:	Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference:	Well: 7H Grd North				
Site:	Federal 23 7H	Vertical (TVD) Reference:	SITE 3592.3				
Well:	7H	Section (VS) Reference:	Well (0.00N 0.00E 0.97Azi)				
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
2972.00	1.04	351.25	2970.40	-20.64	-8.34	0.12	-20.77	498058.46	679994.76	
3065.00	1.19	352.56	3063.38	-18.85	-8.59	0.16	-18.99	498060.25	679994.51	
3160.00	1.05	9.07	3158.36	-17.01	-8.58	0.37	-17.15	498062.09	679994.52	
3255.00	1.02	20.28	3253.35	-15.36	-8.15	0.22	-15.49	498063.74	679994.95	
3349.00	0.92	15.64	3347.33	-13.84	-7.66	0.14	-13.97	498065.26	679995.44	
3444.00	1.22	11.18	3442.32	-12.12	-7.25	0.33	-12.24	498066.98	679995.85	
3539.00	1.40	36.73	3537.29	-10.19	-6.36	0.64	-10.30	498068.91	679996.74	
3634.00	1.58	62.96	3632.26	-8.67	-4.50	0.74	-8.74	498070.43	679998.60	
3728.00	1.88	86.95	3726.22	-8.00	-1.81	0.83	-8.03	498071.10	680001.29	
3823.00	1.34	78.97	3821.18	-7.70	0.84	0.61	-7.69	498071.40	680003.94	
3918.00	0.95	50.96	3916.16	-6.99	2.54	0.71	-6.95	498072.11	680005.64	
4012.00	1.22	37.65	4010.15	-5.71	3.76	0.39	-5.65	498073.39	680006.86	
4106.00	0.98	43.14	4104.13	-4.33	4.92	0.28	-4.25	498074.77	680008.02	
4201.00	1.07	66.90	4199.11	-3.39	6.29	0.45	-3.28	498075.71	680009.39	
4296.00	1.05	68.59	4294.10	-2.73	7.91	0.04	-2.59	498076.37	680011.01	
4383.00	0.85	68.69	4381.09	-2.20	9.26	0.23	-2.04	498076.90	680012.36	
4460.00	0.94	61.29	4458.08	-1.69	10.35	0.19	-1.51	498077.41	680013.45	Csg
4481.00	0.97	59.53	4479.07	-1.52	10.65	0.19	-1.34	498077.58	680013.75	
4513.00	0.94	62.50	4511.07	-1.26	11.12	0.18	-1.07	498077.84	680014.22	
4607.00	1.16	14.04	4605.06	0.02	12.03	0.94	0.23	498079.12	680015.13	
4702.00	0.82	313.64	4700.04	1.42	11.77	1.09	1.62	498080.52	680014.87	
4797.00	0.88	305.63	4795.03	2.32	10.69	0.14	2.50	498081.42	680013.79	
4892.00	0.85	307.91	4890.02	3.18	9.54	0.05	3.34	498082.28	680012.64	
4986.00	0.93	302.67	4984.01	4.02	8.35	0.12	4.16	498083.12	680011.45	
5080.00	0.84	313.19	5078.00	4.90	7.20	0.20	5.02	498084.00	680010.30	
5175.00	0.38	173.62	5173.00	5.06	6.73	1.22	5.18	498084.16	680009.83	
5269.00	0.63	156.04	5266.99	4.28	6.97	0.31	4.40	498083.38	680010.07	
5364.00	0.70	345.84	5361.99	4.37	7.04	1.39	4.49	498083.47	680010.14	
5458.00	0.76	293.36	5455.98	5.17	6.33	0.69	5.28	498084.27	680009.43	
5553.00	0.73	119.39	5550.98	5.12	6.28	1.57	5.23	498084.22	680009.38	
5647.00	0.25	88.44	5644.98	4.84	7.01	0.57	4.95	498083.94	680010.11	
5742.00	0.28	86.02	5739.98	4.86	7.45	0.03	4.98	498083.96	680010.55	
5837.00	0.82	275.78	5834.97	4.94	7.00	1.15	5.06	498084.04	680010.10	
5931.00	0.84	281.25	5928.96	5.14	5.66	0.09	5.24	498084.24	680008.76	
6026.00	0.98	277.72	6023.95	5.39	4.17	0.16	5.46	498084.49	680007.27	
6121.00	0.49	279.34	6118.94	5.56	2.96	0.52	5.61	498084.66	680006.06	
6215.00	0.38	272.65	6212.94	5.64	2.25	0.13	5.68	498084.74	680005.35	
6247.00	0.41	277.86	6244.94	5.66	2.03	0.15	5.70	498084.76	680005.13	
6292.00	0.41	266.23	6289.94	5.68	1.71	0.18	5.70	498084.78	680004.81	
6323.00	1.40	357.82	6320.94	6.05	1.59	4.74	6.07	498085.15	680004.69	
6355.00	3.92	359.96	6352.90	7.53	1.57	7.88	7.56	498086.63	680004.67	
6387.00	4.24	2.62	6384.82	9.81	1.63	1.16	9.83	498088.91	680004.73	
6418.00	6.96	3.74	6415.67	12.83	1.80	8.78	12.86	498091.93	680004.90	
6450.00	10.75	4.71	6447.28	17.74	2.17	11.85	17.77	498096.84	680005.27	
6481.00	12.55	4.23	6477.64	23.98	2.66	5.81	24.02	498103.08	680005.76	
6512.00	13.79	3.69	6507.82	31.02	3.15	4.02	31.07	498110.12	680006.25	
6543.00	15.73	3.16	6537.80	38.91	3.61	6.27	38.96	498118.01	680006.71	
6575.00	18.04	2.32	6568.42	48.19	4.05	7.26	48.25	498127.29	680007.15	
6606.00	20.32	2.30	6597.70	58.37	4.47	7.35	58.43	498137.47	680007.57	
6638.00	23.81	1.23	6627.35	70.38	4.83	10.98	70.45	498149.48	680007.93	
6670.00	27.38	0.87	6656.20	84.20	5.08	11.17	84.27	498163.30	680008.18	
6701.00	31.28	1.41	6683.22	99.38	5.38	12.61	99.46	498178.48	680008.48	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company:	Occidental Permian Ltd.	Date:	8/16/2012	Time:	07:02:21	Page:	3
Field:	Eddy Co. NM (Nad:27)	Co-ordinate(NE) Reference:	Well: 7H Gnd North				
Site:	Federal 23-7H	Vertical (TVD) Reference:	SITE 3592.3				
Well:	7H	Section (VS) Reference:	Well: (0.00N 0.00E 0.97Azi)				
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
6733.00	34.69	1.57	6710.06	116.79	5.84	10.66	116.87	498195.89	680008.94	
6764.00	38.03	1.73	6735.02	135.16	6.37	10.78	135.25	498214.26	680009.47	
6796.00	40.41	1.84	6759.81	155.38	7.00	7.44	155.48	498234.48	680010.10	
6827.00	43.19	2.05	6782.92	176.03	7.70	8.98	176.14	498255.13	680010.80	
6859.00	46.39	1.61	6805.63	198.56	8.42	10.05	198.67	498277.66	680011.52	
6891.00	49.20	1.62	6827.12	222.25	9.09	8.78	222.37	498301.35	680012.19	
6922.00	51.37	1.52	6846.93	246.09	9.74	7.00	246.22	498325.19	680012.84	
6954.00	53.28	2.33	6866.49	271.40	10.59	6.30	271.54	498350.50	680013.69	
6985.00	55.45	2.48	6884.55	296.57	11.65	7.01	296.73	498375.67	680014.75	
7017.00	57.57	1.75	6902.20	323.24	12.63	6.89	323.41	498402.34	680015.73	
7048.00	59.94	1.81	6918.28	349.73	13.46	7.65	349.91	498428.83	680016.56	
7080.00	62.08	2.22	6933.79	377.70	14.44	6.78	377.89	498456.80	680017.54	
7112.00	64.31	1.83	6948.22	406.24	15.45	7.05	406.44	498485.34	680018.55	
7143.00	66.36	1.00	6961.16	434.40	16.14	7.05	434.61	498513.50	680019.24	
7175.00	68.12	0.40	6973.53	463.91	16.50	5.77	464.12	498543.01	680019.60	
7207.00	69.51	0.03	6985.10	493.74	16.61	4.48	493.95	498572.84	680019.71	
7238.00	71.95	0.28	6995.33	523.00	16.69	7.91	523.21	498602.10	680019.79	
7270.00	74.56	0.18	7004.55	553.64	16.82	8.16	553.85	498632.74	680019.92	
7302.00	77.23	0.08	7012.35	584.68	16.89	8.35	584.88	498663.78	680019.99	
7333.00	80.37	0.20	7018.37	615.08	16.96	10.14	615.28	498694.18	680020.06	
7365.00	83.34	0.42	7022.90	646.76	17.13	9.31	646.95	498725.86	680020.23	
7396.00	85.60	0.52	7025.89	677.61	17.39	7.30	677.81	498756.71	680020.49	
7428.00	86.43	0.97	7028.11	709.53	17.80	2.95	709.73	498788.63	680020.90	
7459.00	87.41	0.89	7029.78	740.48	18.30	3.17	740.68	498819.58	680021.40	
7491.00	88.04	0.71	7031.05	772.45	18.75	2.05	772.66	498851.55	680021.85	
7523.00	88.25	0.89	7032.08	804.43	19.20	0.86	804.64	498883.53	680022.30	
7554.00	89.37	1.15	7032.73	835.42	19.75	3.71	835.63	498914.52	680022.85	
7586.00	90.56	1.34	7032.75	867.41	20.44	3.77	867.63	498946.51	680023.54	
7681.00	94.48	0.40	7028.57	962.29	21.89	4.24	962.52	499041.39	680024.99	
7775.00	92.73	359.40	7022.66	1056.10	21.72	2.14	1056.31	499135.20	680024.82	
7870.00	89.93	358.89	7020.45	1151.05	20.30	3.00	1151.23	499230.15	680023.40	
7965.00	90.63	359.27	7019.99	1246.04	18.78	0.84	1246.18	499325.14	680021.88	
8059.00	91.05	359.12	7018.61	1340.02	17.46	0.47	1340.12	499419.12	680020.56	
8154.00	89.58	358.83	7018.09	1435.00	15.76	1.58	1435.06	499514.10	680018.86	
8249.00	89.93	358.30	7018.50	1529.97	13.38	0.67	1529.97	499609.07	680016.48	
8343.00	90.98	359.58	7017.75	1623.94	11.64	1.76	1623.91	499703.04	680014.74	
8437.00	89.37	0.72	7017.46	1717.94	11.89	2.10	1717.90	499797.04	680014.99	
8532.00	89.51	1.22	7018.39	1812.92	13.49	0.55	1812.89	499892.02	680016.59	
8627.00	90.00	1.28	7018.80	1907.90	15.57	0.52	1907.89	499987.00	680018.67	
8722.00	90.35	1.15	7018.51	2002.87	17.58	0.39	2002.89	500081.97	680020.68	
8816.00	91.26	1.53	7017.19	2096.84	19.78	1.05	2096.87	500175.94	680022.88	
8910.00	91.68	1.34	7014.77	2190.78	22.13	0.49	2190.84	500269.88	680025.23	
9004.00	90.42	2.61	7013.05	2284.70	25.37	1.90	2284.81	500363.80	680028.47	
9098.00	89.86	1.66	7012.82	2378.64	28.87	1.17	2378.78	500457.74	680031.97	
9193.00	90.49	2.10	7012.53	2473.58	31.99	0.81	2473.77	500552.68	680035.09	
9288.00	90.77	2.35	7011.49	2568.51	35.68	0.40	2568.74	500647.61	680038.78	
9382.00	90.21	2.03	7010.68	2662.43	39.27	0.69	2662.72	500741.53	680042.37	
9477.00	90.07	1.44	7010.45	2757.39	42.15	0.64	2757.71	500836.49	680045.25	
9571.00	89.65	1.57	7010.68	2851.36	44.62	0.47	2851.70	500930.46	680047.72	
9666.00	90.91	1.52	7010.22	2946.32	47.18	1.33	2946.69	501025.42	680050.28	
9761.00	90.42	1.30	7009.11	3041.28	49.51	0.57	3041.69	501120.38	680052.61	
9855.00	91.12	0.89	7007.85	3135.26	51.31	0.86	3135.68	501214.36	680054.41	
9950.00	91.26	0.81	7005.88	3230.23	52.72	0.17	3230.66	501309.33	680055.82	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company:	Occidental Permian Ltd	Date:	8/16/2012	Time:	07:02:21	Page:	4
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Well:	7H	Section (VS) Reference:	Well (0.00N 0.00E 0.97Azi)				
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
10045.00	90.49	0.95	7004.43	3325.20	54.18	0.82	3325.64	501404.30	680057.28	
10140.00	89.86	0.98	7004.14	3420.19	55.78	0.66	3420.64	501499.29	680058.88	
10234.00	89.65	0.72	7004.54	3514.18	57.17	0.36	3514.64	501593.28	680060.27	
10329.00	90.35	0.63	7004.54	3609.17	58.29	0.74	3609.64	501688.27	680061.39	
10424.00	91.05	0.77	7003.38	3704.15	59.45	0.75	3704.63	501783.25	680062.55	
10519.00	91.05	0.73	7001.64	3799.13	60.70	0.04	3799.61	501878.23	680063.80	
10614.00	90.28	0.78	7000.53	3894.12	61.95	0.81	3894.61	501973.22	680065.05	
10708.00	89.93	2.16	7000.36	3988.08	64.36	1.51	3988.60	502067.18	680067.46	
10803.00	88.74	1.95	7001.47	4083.01	67.77	1.27	4083.57	502162.11	680070.87	
10898.00	88.60	2.05	7003.67	4177.93	71.08	0.18	4178.53	502257.03	680074.18	
10993.00	88.74	1.79	7005.88	4272.85	74.26	0.31	4273.49	502351.95	680077.36	
11087.00	89.23	1.78	7007.54	4366.79	77.19	0.52	4367.47	502445.89	680080.29	
11182.00	88.95	1.46	7009.05	4461.74	79.87	0.45	4462.45	502540.84	680082.97	
11277.00	89.09	1.25	7010.67	4556.70	82.12	0.27	4557.44	502635.80	680085.22	
11371.00	88.88	1.59	7012.34	4650.65	84.45	0.43	4651.42	502729.75	680087.55	
11466.00	88.46	1.72	7014.54	4745.59	87.19	0.46	4746.38	502824.69	680090.29	
11561.00	89.23	1.72	7016.46	4840.53	90.04	0.81	4841.36	502919.63	680093.14	
11655.00	90.07	1.61	7017.03	4934.48	92.77	0.90	4935.35	503013.58	680095.87	
11750.00	89.72	1.61	7017.21	5029.45	95.44	0.37	5030.34	503108.55	680098.54	
11845.00	90.00	1.72	7017.44	5124.41	98.20	0.32	5125.33	503203.51	680101.30	
11940.00	91.05	1.66	7016.57	5219.36	101.01	1.11	5220.32	503298.46	680104.11	
12034.00	91.96	1.89	7014.10	5313.28	103.92	1.00	5314.28	503392.38	680107.02	
12128.00	92.66	1.67	7010.31	5407.16	106.83	0.78	5408.19	503486.26	680109.93	
12185.00	93.29	1.64	7007.35	5464.06	108.48	1.11	5465.11	503543.16	680111.58	Last Wft Svy
12245.00	93.29	1.64	7003.91	5523.93	110.19	0.00	5525.01	503603.03	680113.29	Proj. to Bit

Annotation

MD ft	TVD ft	
842.88	842.09	Tie on Gyro
922.00	920.93	First Wft Svy
12185.00	7007.35	Last Wft Svy
12245.00	7003.91	Proj. to Bit



Occidental Permian Ltd.
Federal 23 7H
Eddy Co, NM

KB ELEV: 3592.30
GL ELEV: 3567.80

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	
2	6313.82	0.00	0.97	6313.82	0.00	0.00	0.00	0.00	0.00	
3	7443.72	90.39	0.97	7030.00	720.99	12.16	8.00	0.97	721.10	
4	12268.32	90.39	0.97	6997.00	5544.80	93.50	0.00	0.00	5545.59	PBHL

WELL DETAILS

Name+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
7H 0.00	0.00	498079.10	680003.10	32°22'04.753N	103°45'01.196W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	6997.00	5544.80	93.50	503623.90	680096.60	Rectangle (4824x0)
Tgt	7030.00	880.00	14.70	498959.10	680017.80	Point

SITE DETAILS

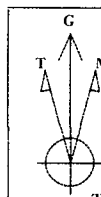
Federal 23 7H
Site Centre Northing: 498079.10
Easting: 680003.10
Ground Level: 3567.80
Positional Uncertainty: 0.00
Convergence: 0.31

FIELD DETAILS

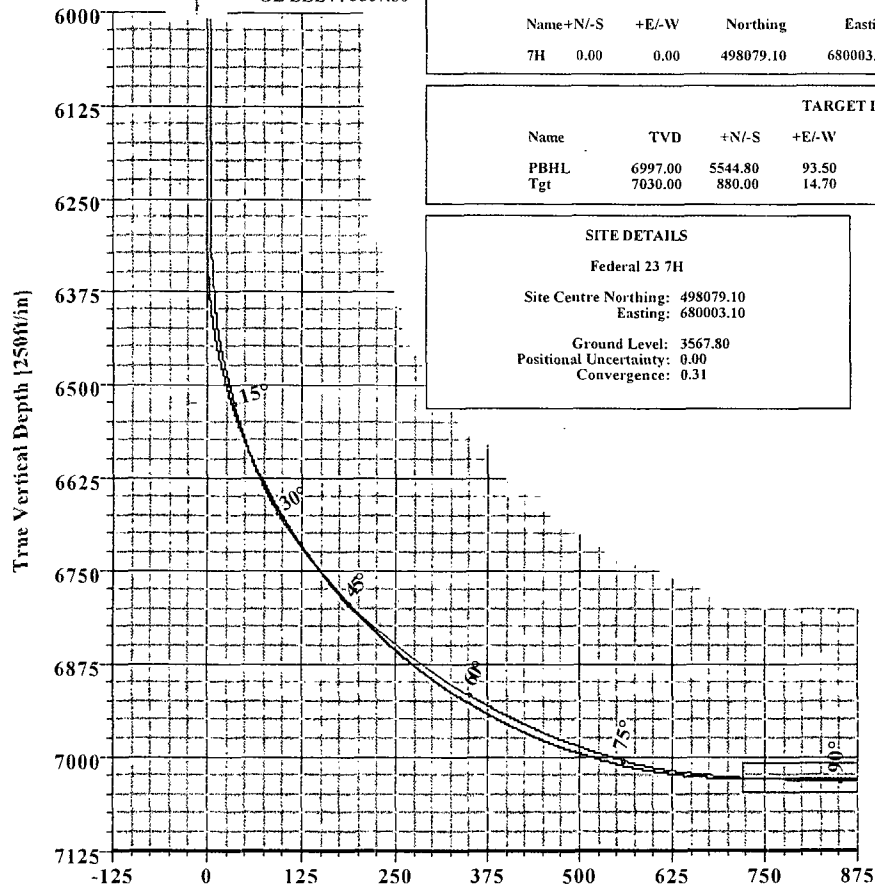
Eddy Co, NM (Nad 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

LEGEND

TH.1, Plan #3
Wft Svy



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.23°
Magnetic Field
Strength: 48596nT
Dip Angle: 60.26°
Date: 8/1/2012
Model: IGRF2010
Total Correction to Grid North: 7.23°



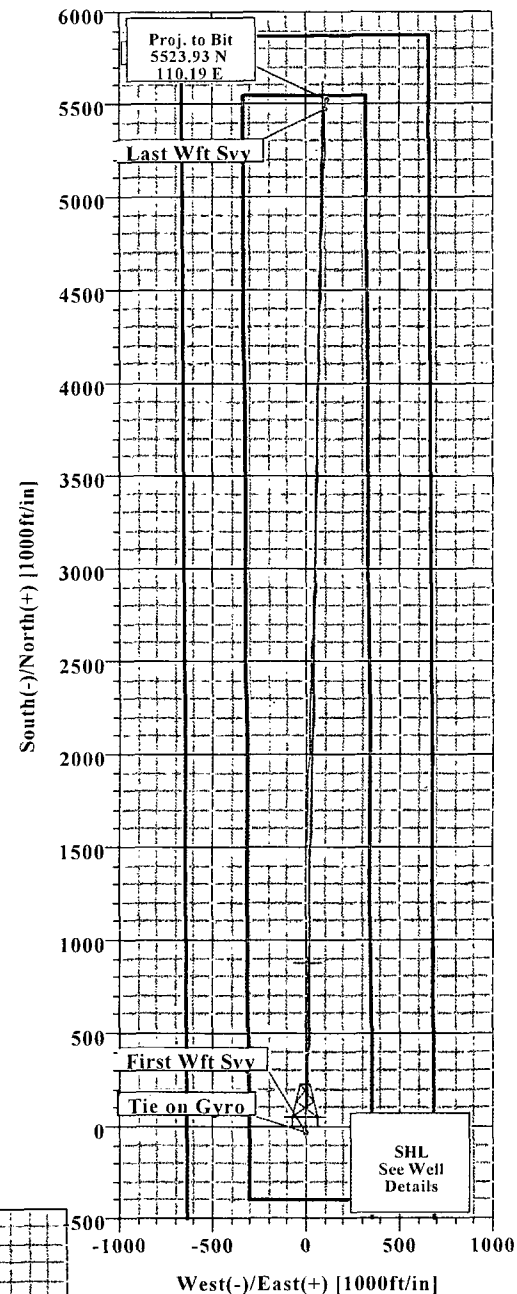
Survey: Wft Svy (7H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
152	12245.00	93.29	1.64	7003.91	5523.93	110.19	0.00	0.00	5525.01

Target Window
20' Up/Down

Last Wft Svy
Proj. to Bit

Vertical Section at 0.97° [750ft/in]

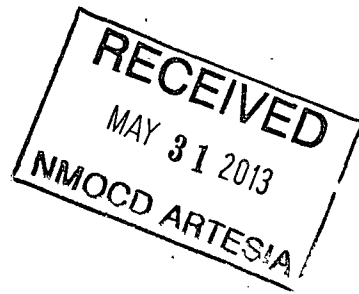


Weatherford

Survey: Wft Svy (7H/1)

Created By: Patrick Rudolph

Date: 8/16/2012



OCCIDENTAL PERMIAN LTD.

Livingston Ridge, Delaware
Eddy County, NM
Federal 23 #7H
VH - Job #32K0712880

Survey: Gyro

SDI Standard Survey Report

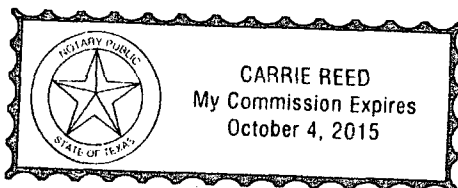
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notarized this date 3rd of August, 2012.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well Federal 23 #7H
Project:	Livingston Ridge, Delaware	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Well:	Federal 23 #7H	North Reference:	Grid
Wellbore:	VH - Job #32K0712880	Survey/Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0712880	Database:	EDM-Regulatory

Project:	Livingston Ridge, Delaware		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Eddy County, NM			
Site Position:		Northing:	498,074.40 usft	Latitude: 32° 22' 4.800 N
From:	Lat/Long	Easting:	678,253.09 usft	Longitude: 103° 45' 21.600 W
Position Uncertainty:	0.00 usft	Slot Radius:	0"	Grid Convergence: 0.31 °

Well:	Federal 23 #7H, Directional (Unknown)			
Well Position	+N/-S	0.00 usft	Northing:	497,720.66 usft
	+E/-W	0.00 usft	Easting:	680,107.61 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 0.00 usft

Wellbore:	VH - Job #32K0712880
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/04	8.66	60.54	49,514

Design:	VH - Job #32K0712880			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	187.18

Survey Program:	Date: 08/12/12				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
93.34	842.88	Gyro (VH - Job #32K0712880)	Keeper	Keeper Surface Readout	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93.34	0.21	198.24	93.34	-0.16	-0.05	198.24	0.17
188.81	0.48	220.28	188.81	-0.63	-0.37	210.07	0.73
284.28	1.06	210.45	284.27	-1.70	-1.07	212.26	2.01
378.15	1.35	203.63	378.12	-3.46	-1.96	209.47	3.98
472.02	1.59	199.48	471.96	-5.70	-2.83	206.42	6.37
565.89	2.08	192.81	565.78	-8.59	-3.65	202.99	9.33
659.76	3.25	179.61	659.55	-12.91	-4.01	197.23	13.52
752.16	4.89	175.30	751.71	-19.46	-3.66	190.67	19.80
842.88	5.01	181.25	842.09	-27.27	-3.43	187.18	27.49

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-402
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☒ AMENDED REPORT
As Du: 11ed

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39436	Pool Code 39360	Pool Name Livingston Ridge Delaware
Property Code 304816	Property Name FEDERAL "23"	Well Number 7H
OCRID No. 16696	Operator Name OXY USA INC.	Elevation 3567.8'

Surface Location

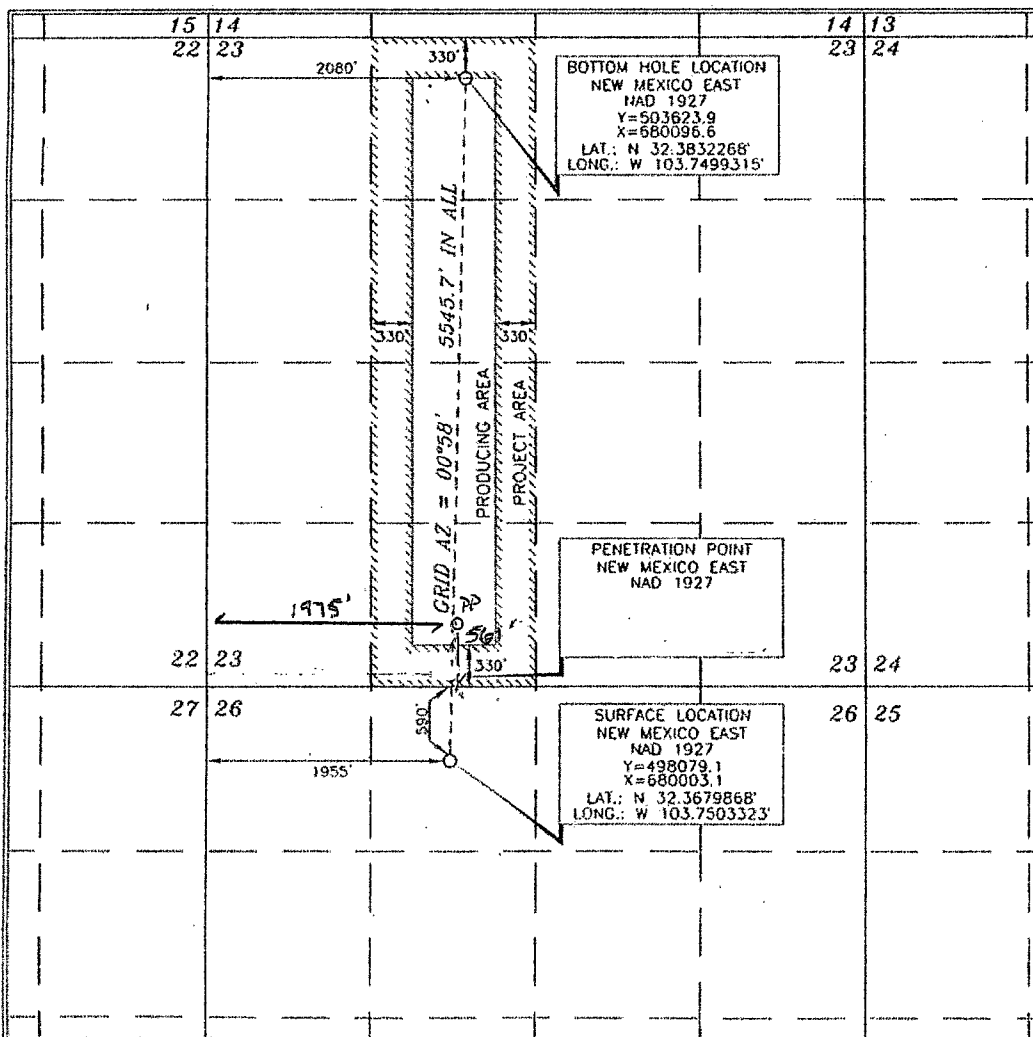
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	22 SOUTH	31 EAST, N.M.P.M.		590'	NORTH	1955'	WEST	EDDY

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
C	23	22 SOUTH	31 EAST, N.M.P.M.		330' 346	NORTH	2080' 2065	WEST	EDDY

Dedicated Acres 160	Joint or Infill N	Consolidation Code	Order No. Top Producing Interval - 561 FSL 1975 FWL SESW (N)
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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 _____ Date _____

David Stewart SR. Reg. Adm.
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was located from field notes of actual 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 _____

Signature of _____
Professional Surveyor

Certificate Number **15079**

WO# 110321WL-a (Rev. A) (KA)