

15-40050



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: June 4, 2012

Attention: Brad Brown

COPY

RECEIVED

NOV 02 2012

NMOCD ARTESIA

Re: Occidental Permian Ltd
Well: Samantha 31-6
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Jett Hunter MWD Supervisor	31-6	641' MD 14358' MD	4/25/2012 5/31/2012	Measurement While Drilling

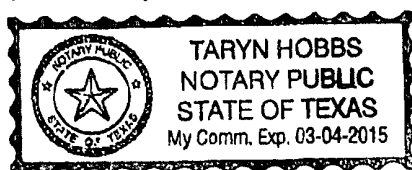
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 4th day of June, 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: 5/30/2012 Time: 07:18:48 Page: 1
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well, Samantha 31-6 Fed Com #1H
 Site: Samantha 31-6 Fed Com #1H Vertical (TVD) Reference: SITE 3556.6
 Well: Samantha 31-6 Fed Com #1H Section (VS) Reference: Well (0.00N,0.00E,180.68Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 4/30/2012

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: Samantha 31-6 Fed Com #1H

Site Position: Northing: 618344.90 ft Latitude: 32 41 57.229 N
 From: Map Easting: 628706.20 ft Longitude: 103 54 53.785 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3531.60 ft Grid Convergence: 0.23 deg

Well: Samantha 31-6 Fed Com #1H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 618344.90 ft Latitude: 32 41 57.229 N
 +E/-W 0.00 ft Easting: 628706.20 ft Longitude: 103 54 53.785 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3556.60 ft
 Magnetic Data: 4/30/2012
 Field Strength: 48803 nT
 Vertical Section: Depth From (TVD) +N/-S
 ft ft
 0.00 0.00 0.00 180.68

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
550.18	0.80	138.57	550.13	-1.67	6.04	0.00	1.60	618343.23	628712.24	Tie on Gyro
603.00	0.80	155.15	602.95	-2.29	6.44	0.44	2.21	618342.61	628712.64	13 3/8"
641.00	0.84	166.43	640.94	-2.80	6.62	0.44	2.72	618342.10	628712.82	First Wft Svy
704.00	0.56	158.54	703.94	-3.53	6.84	0.47	3.45	618341.37	628713.04	
796.00	0.38	156.58	795.94	-4.23	7.12	0.20	4.15	618340.67	628713.32	
887.00	0.22	150.69	886.94	-4.66	7.33	0.18	4.57	618340.24	628713.53	
982.00	0.14	118.77	981.94	-4.88	7.52	0.13	4.79	618340.02	628713.72	
1077.00	0.49	308.63	1076.93	-4.68	7.31	0.66	4.59	618340.22	628713.51	
1172.00	0.56	313.29	1171.93	-4.11	6.65	0.09	4.03	618340.79	628712.85	
1267.00	0.84	315.87	1266.92	-3.29	5.83	0.30	3.22	618341.61	628712.03	
1361.00	0.72	315.06	1360.91	-2.37	4.93	0.13	2.32	618342.53	628711.13	
1456.00	0.76	326.21	1455.91	-1.43	4.16	0.16	1.38	618343.47	628710.36	
1551.00	0.69	316.26	1550.90	-0.49	3.41	0.15	0.45	618344.41	628709.61	
1646.00	0.82	315.68	1645.89	0.41	2.54	0.14	-0.44	618345.31	628708.74	
1740.00	0.82	331.97	1739.88	1.48	1.76	0.25	-1.50	618346.38	628707.96	
1835.00	0.72	337.44	1834.87	2.63	1.21	0.13	-2.65	618347.53	628707.41	
1929.00	0.42	326.75	1928.87	3.47	0.79	0.34	-3.48	618348.37	628706.99	
2024.00	0.44	335.67	2023.87	4.09	0.45	0.07	-4.10	618348.99	628706.65	
2067.74	0.54	320.89	2067.60	4.41	0.25	0.37	-4.41	618349.31	628706.45	9 5/8"
2098.00	0.63	313.81	2097.86	4.63	0.04	0.37	-4.63	618349.53	628706.24	
2202.00	0.69	317.29	2201.86	5.49	-0.80	0.07	-5.48	618350.39	628705.40	
2265.00	0.69	318.23	2264.85	6.05	-1.31	0.02	-6.03	618350.95	628704.89	
2360.00	0.56	330.15	2359.85	6.88	-1.92	0.19	-6.86	618351.78	628704.28	
2455.00	0.91	238.41	2454.84	6.89	-2.79	1.14	-6.85	618351.79	628703.41	



Weatherford International Ltd.
WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Samantha 31-6 Fed Com #1H
Well: Samantha 31-6 Fed Com #1H
Wellpath: 1

Date: 5/30/2012 Time: 07:18:48 Page: 2
Co-ordinate(NE) Reference: Well: Samantha 31-6 Fed Com #1H
Vertical (TVD) Reference: SITE 3556.6
Section (VS) Reference: Well (0.00N,0.00E,180.68Az)
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
2550.00	1.15	227.29	2549.82	5.84	-4.14	0.33	-5.79	618350.74	628702.06	
2645.00	0.25	276.25	2644.82	5.22	-5.04	1.06	-5.16	618350.12	628701.16	
2739.00	0.16	334.49	2738.82	5.36	-5.30	0.23	-5.30	618350.26	628700.90	
2834.00	0.16	5.18	2833.82	5.61	-5.35	0.09	-5.55	618350.51	628700.85	
2929.00	0.14	350.56	2928.82	5.86	-5.35	0.05	-5.80	618350.76	628700.85	
3023.00	0.20	336.20	3022.82	6.12	-5.44	0.08	-6.06	618351.02	628700.76	
3118.00	0.14	331.84	3117.81	6.38	-5.56	0.06	-6.31	618351.28	628700.64	
3213.00	0.25	331.41	3212.81	6.66	-5.72	0.12	-6.59	618351.56	628700.48	
3308.00	0.30	312.85	3307.81	7.01	-6.00	0.11	-6.94	618351.91	628700.20	
3402.00	0.22	148.86	3401.81	7.03	-6.08	0.55	-6.95	618351.93	628700.12	
3497.00	0.41	170.88	3496.81	6.53	-5.94	0.23	-6.46	618351.43	628700.26	
3592.00	0.42	171.87	3591.81	5.85	-5.83	0.01	-5.78	618350.75	628700.37	
3686.00	0.41	170.36	3685.81	5.18	-5.73	0.02	-5.11	618350.08	628700.47	
3781.00	0.47	166.38	3780.80	4.47	-5.58	0.07	-4.40	618349.37	628700.62	
3875.00	0.44	170.67	3874.80	3.74	-5.43	0.05	-3.67	618348.64	628700.77	
3970.00	0.53	181.07	3969.80	2.94	-5.38	0.13	-2.87	618347.84	628700.82	
4064.00	0.60	184.64	4063.79	2.01	-5.43	0.08	-1.95	618346.91	628700.77	
4159.00	0.53	187.03	4158.79	1.08	-5.52	0.08	-1.01	618345.98	628700.68	
4253.00	0.49	200.28	4252.78	0.27	-5.71	0.13	-0.20	618345.17	628700.49	
4348.00	0.51	194.37	4347.78	-0.52	-5.96	0.06	0.59	618344.38	628700.24	
4442.00	0.49	205.15	4441.78	-1.29	-6.23	0.10	1.36	618343.61	628699.97	
4536.00	0.20	182.84	4535.78	-1.82	-6.41	0.33	1.89	618343.08	628699.79	
4631.00	0.22	178.83	4630.77	-2.16	-6.42	0.03	2.24	618342.74	628699.78	
4726.00	0.22	199.06	4725.77	-2.52	-6.47	0.08	2.60	618342.38	628699.73	
4820.00	0.36	229.31	4819.77	-2.88	-6.76	0.22	2.96	618342.02	628699.44	
4915.00	0.60	237.29	4914.77	-3.35	-7.40	0.26	3.43	618341.55	628698.80	
5010.00	0.16	15.29	5009.77	-3.49	-7.78	0.77	3.58	618341.41	628698.42	
5105.00	0.16	327.41	5104.77	-3.25	-7.82	0.14	3.34	618341.65	628698.38	
5200.00	0.16	317.83	5199.77	-3.04	-7.98	0.03	3.13	618341.86	628698.22	
5294.00	0.22	290.96	5293.77	-2.87	-8.24	0.11	2.97	618342.03	628697.96	
5389.00	0.29	288.58	5388.77	-2.73	-8.64	0.07	2.84	618342.17	628697.56	
5484.00	0.30	23.95	5483.76	-2.43	-8.76	0.46	2.53	618342.47	628697.44	
5579.00	0.40	14.55	5578.76	-1.88	-8.58	0.12	1.98	618343.02	628697.62	
5674.00	0.42	10.53	5673.76	-1.22	-8.43	0.04	1.32	618343.68	628697.77	
5769.00	0.40	3.09	5768.76	-0.54	-8.35	0.06	0.64	618344.36	628697.85	
5864.00	0.16	45.76	5863.76	-0.12	-8.24	0.32	0.22	618344.78	628697.96	
5958.00	0.16	333.26	5957.76	0.09	-8.20	0.20	0.01	618344.99	628698.00	
6053.00	0.35	338.51	6052.76	0.46	-8.37	0.20	-0.38	618345.38	628697.83	
6147.00	0.49	327.31	6146.75	1.08	-8.69	0.17	-0.98	618345.98	628697.51	
6242.00	0.38	152.52	6241.75	1.14	-8.76	0.91	-1.04	618346.04	628697.44	
6432.00	0.91	139.75	6431.74	-0.57	-7.50	0.29	0.65	618344.33	628698.70	
6621.00	0.60	109.72	6620.72	-2.05	-5.60	0.26	2.11	618342.85	628700.60	
6811.00	0.80	97.17	6810.71	-2.55	-3.35	0.13	2.59	618342.35	628702.85	
7001.00	0.47	356.16	7000.70	-1.93	-2.08	0.53	1.96	618342.97	628704.12	
7190.00	0.29	25.88	7189.70	-0.73	-1.92	0.14	0.75	618344.17	628704.28	
7379.00	0.20	290.56	7378.70	-0.18	-2.02	0.19	0.21	618344.72	628704.18	
7568.00	1.19	247.87	7567.68	-0.81	-4.15	0.56	0.86	618344.09	628702.05	
7758.00	0.49	196.69	7757.66	-2.33	-6.21	0.51	2.40	618342.57	628699.99	
7947.00	0.22	89.96	7946.66	-3.10	-6.08	0.31	3.18	618341.80	628700.12	
8026.00	1.26	174.19	8025.65	-3.97	-5.84	1.59	4.04	618340.93	628700.36	
8058.00	3.50	181.30	8057.62	-5.29	-5.83	7.05	5.36	618339.61	628700.37	
8089.00	5.41	181.44	8088.53	-7.70	-5.89	6.16	7.77	618337.20	628700.31	



Weatherford International Ltd.
WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd
Field: Eddy Co, NM (Nad 27)
Site: Samantha 31-6 Fed Com #1H
Well: Samantha 31-6 Fed Com #1H
Wellpath: 1

Date: 5/30/2012 Time: 07:18:48 Page: 3
Co-ordinate(NE) Reference: Well: Samantha 31-6 Fed Com #1H
Vertical (TVD) Reference: SITE 3556.6
Section (VS) Reference: Well (0.00N,0.00E,180.68Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey										
MD ft	Incl deg	Azin deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8121.00	7.55	183.38	8120.32	-11.31	-6.05	6.72	11.38	618333.59	628700.15	
8153.00	9.78	186.62	8151.95	-16.11	-6.49	7.13	16.18	618328.79	628699.71	
8184.00	11.93	187.96	8182.40	-21.90	-7.23	6.98	21.98	618323.00	628698.97	
8216.00	14.22	187.64	8213.57	-29.07	-8.21	7.16	29.16	618315.83	628697.99	
8248.00	16.48	186.96	8244.42	-37.47	-9.29	7.08	37.58	618307.43	628696.91	
8279.00	18.56	187.93	8273.98	-46.72	-10.50	6.78	46.84	618298.18	628695.70	
8311.00	20.44	188.40	8304.15	-57.30	-12.02	5.90	57.43	618287.60	628694.18	
8342.00	22.19	188.88	8333.02	-68.44	-13.71	5.67	68.59	618276.46	628692.49	
8374.00	24.30	188.29	8362.43	-80.92	-15.60	6.63	81.10	618263.98	628690.60	
8406.00	27.59	187.06	8391.20	-94.80	-17.46	10.42	95.00	618250.10	628688.74	
8437.00	30.97	186.16	8418.23	-109.85	-19.20	11.00	110.07	618235.05	628687.00	
8469.00	33.78	186.30	8445.26	-126.89	-21.06	8.78	127.13	618218.01	628685.14	
8500.00	36.75	186.23	8470.56	-144.68	-23.01	9.58	144.94	618200.22	628683.19	
8532.00	39.82	186.13	8495.68	-164.38	-25.14	9.60	164.67	618180.52	628681.06	
8563.00	42.46	185.13	8519.02	-184.68	-27.14	8.78	184.99	618160.22	628679.06	
8595.00	44.99	184.14	8542.15	-206.72	-28.92	8.19	207.05	618138.18	628677.28	
8627.00	47.61	183.04	8564.25	-229.81	-30.36	8.56	230.15	618115.09	628675.84	
8658.00	50.38	183.16	8584.59	-253.17	-31.63	8.94	253.53	618091.73	628674.57	
8690.00	53.49	183.21	8604.32	-278.32	-33.03	9.72	278.69	618066.58	628673.17	
8721.00	56.17	183.25	8622.17	-303.62	-34.46	8.65	304.01	618041.28	628671.74	
8752.00	58.97	183.68	8638.80	-329.73	-36.04	9.11	330.14	618015.17	628670.16	
8784.00	61.69	184.11	8654.64	-357.47	-37.93	8.58	357.90	617987.43	628668.27	
8823.00	65.65	184.37	8671.93	-392.32	-40.52	10.17	392.77	617952.58	628665.68	
8871.00	68.49	184.09	8690.63	-436.40	-43.77	5.94	436.89	617908.50	628662.43	
8903.00	70.69	185.13	8701.79	-466.30	-46.19	7.52	466.81	617878.60	628660.01	
8935.00	73.43	184.81	8711.64	-496.62	-48.82	8.62	497.17	617848.28	628657.38	
8966.00	75.98	184.97	8719.82	-526.41	-51.37	8.24	526.99	617818.49	628654.83	
8998.00	78.28	182.86	8726.95	-557.53	-53.50	9.64	558.13	617787.37	628652.70	
9030.00	80.57	182.11	8732.82	-588.96	-54.86	7.52	589.57	617755.94	628651.34	
9061.00	82.42	182.15	8737.41	-619.59	-56.00	5.97	620.21	617725.31	628650.20	
9093.00	84.45	181.45	8741.06	-651.37	-57.00	6.71	652.00	617693.53	628649.20	
9124.00	86.85	180.74	8743.42	-682.27	-57.59	8.07	682.90	617662.63	628648.61	
9156.00	88.85	180.04	8744.62	-714.24	-57.81	6.62	714.88	617630.66	628648.39	
9250.00	89.01	180.00	8746.37	-808.23	-57.84	0.18	808.86	617536.67	628648.36	
9344.00	88.94	179.86	8748.05	-902.21	-57.73	0.17	902.83	617442.69	628648.47	
9438.00	89.56	180.39	8749.28	-996.20	-57.93	0.87	996.82	617348.70	628648.27	
9532.00	89.32	179.94	8750.20	-1090.20	-58.20	0.54	1090.81	617254.70	628648.00	
9627.00	89.20	180.69	8751.43	-1185.19	-58.72	0.80	1185.80	617159.71	628647.48	
9722.00	89.21	182.15	8752.75	-1280.15	-61.08	1.54	1280.78	617064.75	628645.12	
9817.00	89.38	181.84	8753.92	-1375.08	-64.38	0.37	1375.75	616969.82	628641.82	
9912.00	89.32	182.26	8754.99	-1470.01	-67.78	0.45	1470.72	616874.89	628638.42	
10006.00	89.38	181.97	8756.06	-1563.94	-71.25	0.32	1564.68	616780.96	628634.95	
10101.00	89.38	181.45	8757.09	-1658.90	-74.09	0.55	1659.66	616686.00	628632.11	
10196.00	89.38	180.92	8758.12	-1753.87	-76.05	0.56	1754.65	616591.03	628630.15	
10291.00	89.20	181.08	8759.29	-1848.85	-77.71	0.25	1849.64	616496.05	628628.49	
10385.00	89.07	180.90	8760.71	-1942.82	-79.33	0.24	1943.63	616402.08	628626.87	
10480.00	89.14	179.00	8762.20	-2037.81	-79.25	2.00	2038.60	616307.09	628626.95	
10575.00	89.21	178.80	8763.56	-2132.78	-77.43	0.22	2133.55	616212.12	628628.77	
10670.00	88.95	178.14	8765.09	-2227.73	-74.89	0.75	2228.47	616117.17	628631.31	
10765.00	89.14	177.76	8766.67	-2322.66	-71.49	0.45	2323.34	616022.24	628634.71	
10860.00	89.13	178.05	8768.11	-2417.58	-68.02	0.31	2418.22	615927.32	628638.18	
10954.00	88.95	178.34	8769.68	-2511.52	-65.06	0.36	2512.12	615833.38	628641.14	
11049.00	89.20	179.73	8771.22	-2606.50	-63.46	1.49	2607.07	615738.40	628642.74	



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WFT Survey Report X & Y's



Weatherford

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Field: Eddy Co, NM (Nad 27)
Site: Samantha 31-6 Fed Com #1H
Well: Samantha 31-6 Fed Com #1H
Wellpath: 1

Date: 5/30/2012 Time: 07:18:48 Page: 4
Co-ordinate(NE) Reference: Well: Samantha 31-6 Fed Com #1H
Vertical (TVD) Reference: SITE 3556 6
Section (VS) Reference: Well (0.00N,0.00E,180 68Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey										
MD ft	Incl deg	Azin deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
11144.00	89.12	179.15	8772.61	-2701.48	-62.53	0.62	2702.03	615643.42	628643.67	
11239.00	89.03	179.33	8774.14	-2796.46	-61.27	0.21	2796.99	615548.44	628644.93	
11334.00	89.12	179.86	8775.68	-2891.45	-60.60	0.57	2891.96	615453.45	628645.60	
11429.00	89.12	180.39	8777.13	-2986.43	-60.81	0.56	2986.95	615358.47	628645.39	
11523.00	89.08	179.95	8778.61	-3080.42	-61.09	0.47	3080.93	615264.48	628645.11	
11618.00	89.14	179.87	8780.09	-3175.41	-60.94	0.11	3175.91	615169.49	628645.26	
11712.00	89.47	180.21	8781.23	-3269.40	-61.00	0.50	3269.90	615075.50	628645.20	
11806.00	89.32	180.25	8782.22	-3363.40	-61.38	0.17	3363.89	614981.50	628644.82	
11901.00	89.38	180.21	8783.30	-3458.39	-61.76	0.08	3458.88	614886.51	628644.44	
11996.00	89.47	179.86	8784.25	-3553.38	-61.82	0.38	3553.87	614791.52	628644.38	
12090.00	89.65	179.51	8784.97	-3647.38	-61.30	0.42	3647.85	614697.52	628644.90	
12185.00	89.69	179.81	8785.52	-3742.38	-60.74	0.32	3742.83	614602.52	628645.46	
12280.00	89.63	179.89	8786.08	-3837.38	-60.49	0.11	3837.82	614507.52	628645.71	
12375.00	89.69	180.23	8786.65	-3932.37	-60.59	0.36	3932.82	614412.53	628645.61	
12470.00	89.69	180.49	8787.16	-4027.37	-61.19	0.27	4027.81	614317.53	628645.01	
12564.00	89.88	180.61	8787.51	-4121.36	-62.09	0.24	4121.81	614223.54	628644.11	
12659.00	89.88	180.84	8787.71	-4216.36	-63.29	0.24	4216.81	614128.54	628642.91	
12754.00	89.91	180.92	8787.89	-4311.35	-64.75	0.09	4311.81	614033.55	628641.45	
12849.00	89.88	180.79	8788.06	-4406.33	-66.17	0.14	4406.81	613938.57	628640.03	
12944.00	90.26	180.39	8787.94	-4501.33	-67.15	0.58	4501.81	613843.57	628639.05	
13039.00	90.56	180.50	8787.27	-4596.32	-67.88	0.34	4596.81	613748.58	628638.32	
13133.00	90.62	180.21	8786.30	-4690.32	-68.47	0.32	4690.80	613654.58	628637.73	
13228.00	90.62	179.62	8785.27	-4785.31	-68.32	0.62	4785.78	613559.59	628637.88	
13323.00	90.71	179.51	8784.17	-4880.30	-67.60	0.15	4880.76	613464.60	628638.60	
13418.00	90.37	179.72	8783.27	-4975.30	-66.97	0.42	4975.74	613369.60	628639.23	
13513.00	90.79	180.56	8782.31	-5070.29	-67.20	0.99	5070.73	613274.61	628639.00	
13608.00	90.68	180.52	8781.09	-5165.28	-68.09	0.12	5165.72	613179.62	628638.11	
13703.00	90.79	180.21	8779.87	-5260.27	-68.70	0.35	5260.71	613084.63	628637.50	
13797.00	90.68	179.74	8778.67	-5354.26	-68.66	0.51	5354.70	612990.64	628637.54	
13892.00	90.71	179.51	8777.51	-5449.25	-68.03	0.24	5449.67	612895.65	628638.17	
13986.00	90.74	179.58	8776.32	-5543.24	-67.29	0.08	5543.65	612801.66	628638.91	
14081.00	90.99	180.21	8774.89	-5638.23	-67.11	0.71	5638.63	612706.67	628639.09	
14175.00	90.86	180.20	8773.37	-5732.22	-67.45	0.14	5732.61	612612.68	628638.75	
14270.00	90.80	180.23	8772.00	-5827.20	-67.81	0.07	5827.60	612517.70	628638.39	
14358.00	90.93	180.17	8770.67	-5915.19	-68.11	0.16	5915.59	612429.71	628638.09	Last Wft Svy
14381.00	90.93	180.17	8770.30	-5938.19	-68.18	0.00	5938.58	612406.71	628638.02	Proj. to Bit

Annotation

MD ft	TVD ft	
550.18	550.13	Tie on Gyro
641.00	640.94	First Wft Svy
14358.00	8770.67	Last Wft Svy
14381.00	8770.30	Proj. to Bit

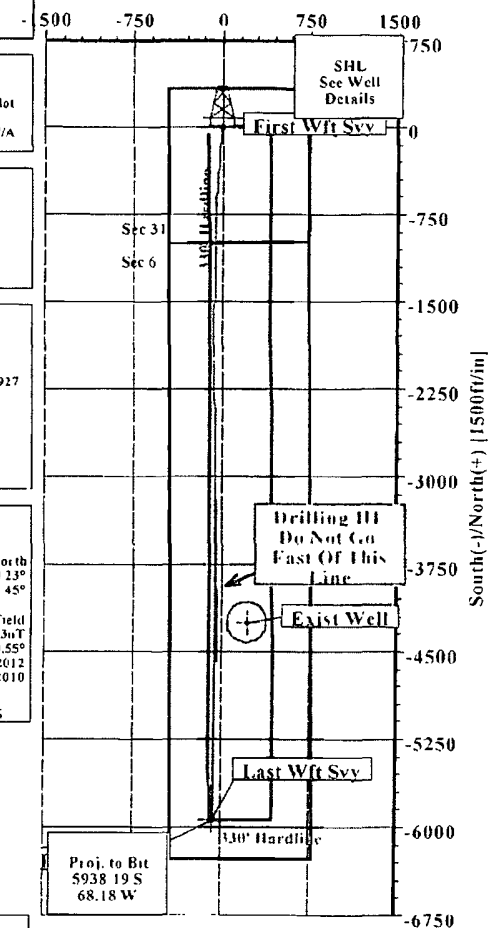


Occidental Permian Ltd.

Samantha 31-6 Fed Com #1H
Eddy Co, New Mexico



West(-)/East(+) [1500ft/in]



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	-N/-S	+E/-W	DLeg	TFace	VSec	Target
1	11641.00	89.14	179.87	8780.43	-3198.41	-60.90	0.00	0.00	3198.90	
2	14381.61	91.30	180.53	8770.00	5938.80	-70.50	0.08	17.05	5939.22	New PBHL

WELL DETAILS

Name	N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Samantha 31-6 Fed Com #1H	0.00	0.00	618344.90	628706.20	32°41'57.229N	103°54'53.785W	N/A

TARGET DETAILS

Name	TVD	-N/-S	+E/-W	Northing	Easting	Shape
Exist Well	3556.60	-4246.54	212.05	614098.36	628915.25	Circle (Radius 171)
New PBHL	8770.00	-5938.80	-70.50	612406.10	628635.70	Rectangle (2741x0)

SITE DETAILS

Samantha 31-6 Fed Com #1H
Site Centre Northing: 618344.90
Easting: 628706.20
Ground Level: 3531.60
Positional Uncertainty: 0.00
Convergence: 0.23

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

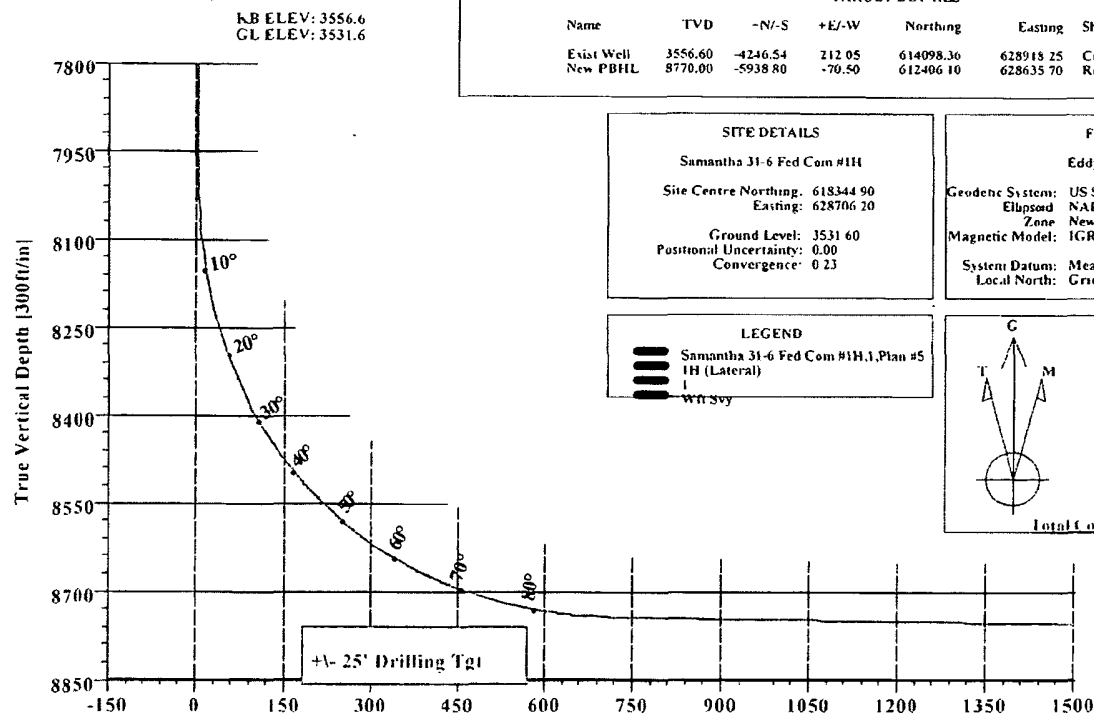
LEGEND

■ Samantha 31-6 Fed Com #1H, Plan #5
■ IH (Lateral)
■ Wft Svy



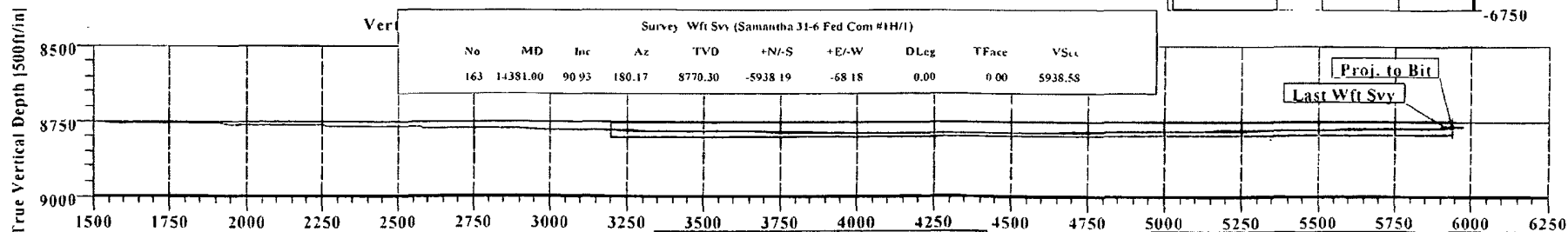
Azimuths to Grid North
True North: -0.13°
Magnetic North: 7.45°
Magnetic Field
Strength: 48803nT
Dip Angle: 60.55°
Date: 4/30/2012
Model: IGRF2010

Total Correction to Grid North: -45



Survey Wft Svy (Samantha 31-6 Fed Com #1H/I)

No	MD	Inc	Az	TVD	-N/-S	+E/-W	DLeg	TFace	VSec
163	14381.00	90.93	180.17	8770.30	-5938.19	-68.18	0.00	0.00	5938.58



Survey Wft Svy (Samantha 31-6 Fed Com #1H/I)

Created By: Patrick Rudolph

Date: 5/30/2012