



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: March 4, 2013

Attention: Carlos Mercado

30015-41024

Re: Occidental Permian Ltd
Well: Cedar Canyon 16 State #2H
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:

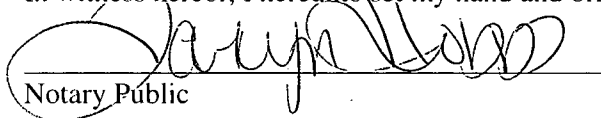
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Donnie Meister	2H	3036' MD	2-15-2013	Measurement
MWD Supervisor		13170' MD	3-1-2013	While Drilling

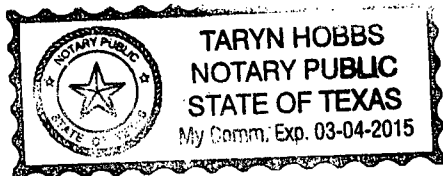
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesse Aguilar
MWD Coordinator

On this, the 4 day of MARCH, 2013, 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 whereof, 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: 3/1/2013	Time: 07:16:27	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Cedar Canyon 16 State #2H	
Site: Cedar Canyon 16 State #2H	Vertical (TVD) Reference:	SITE 2953.0	
Well: Cedar Canyon 16 State #2H	Section (VS) Reference:	Well (0.00N,0.00E,270.94Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature Db: Sybase	

Survey: **Start Date:**

Company: **Engineer:**
Tool: **Tied-to:**

Site: Cedar Canyon 16 State #2H

Site Position:	Northing: 440584.50 ft	Latitude: 32 12 38.859 N
From: Map	Easting: 608832.50 ft	Longitude: 103 58 53.214 W
Position Uncertainty: 0.00 ft	North Reference: Grid	
Ground Level: 2928.00 ft	Grid Convergence: 0.19 deg	

Well: Cedar Canyon 16 State #2H	Slot Name:
Well Position: +N/-S 0.00 ft Northing: 440584.50 ft Latitude: 32 12 38.859 N	
+E/-W 0.00 ft Easting: 608832.50 ft Longitude: 103 58 53.214 W	
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 2/11/2013	Above System Datum: Mean Sea Level
Field Strength: 48423 nT	Declination: 7.57 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.06 deg
ft	+N/-S
	ft
0.00	0.00
	0.00
	270.94

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	440584.50	608832.50	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	440584.50	608832.50	
680.00	1.71	84.10	679.92	0.86	8.31	0.31	-8.30	440585.36	608840.81	
878.00	1.89	79.31	877.82	1.77	14.46	0.12	-14.43	440586.27	608846.96	
1078.00	2.20	73.81	1077.69	3.45	21.39	0.18	-21.33	440587.95	608853.89	
1245.00	2.50	68.71	1244.55	5.67	27.86	0.22	-27.76	440590.17	608860.36	
1433.00	2.59	74.21	1432.37	8.31	35.77	0.14	-35.62	440592.81	608868.27	
1621.00	2.81	73.72	1620.16	10.76	44.28	0.12	-44.09	440595.26	608876.78	
1814.00	2.90	78.82	1812.92	13.03	53.61	0.14	-53.39	440597.53	608886.11	
1910.00	2.90	75.00	1908.80	14.13	58.34	0.20	-58.10	440598.63	608890.84	
2002.00	2.81	74.30	2000.68	15.34	62.75	0.10	-62.49	440599.84	608895.25	
2190.00	2.59	75.79	2188.47	17.63	71.31	0.12	-71.01	440602.13	608903.81	
2380.00	3.52	92.40	2378.20	18.44	81.30	0.67	-80.98	440602.94	608913.80	
2569.00	3.78	98.82	2566.82	17.24	93.25	0.26	-92.96	440601.74	608925.75	
2758.00	4.92	113.23	2755.28	13.09	106.86	0.83	-106.63	440597.59	608939.36	
2944.00	4.00	115.50	2940.71	7.15	120.04	0.50	-119.91	440591.65	608952.54	Tie On SLB
3020.00	4.18	118.52	3016.52	4.69	124.87	0.37	-124.77	440589.19	608957.37	Csg
3036.00	4.22	119.12	3032.48	4.12	125.90	0.37	-125.81	440588.62	608958.40	First Wft Svy
3131.00	6.11	99.43	3127.09	1.60	133.94	2.70	-133.89	440586.10	608966.44	
3225.00	6.50	82.91	3220.53	1.43	144.15	1.97	-144.11	440585.93	608976.65	
3319.00	6.59	63.00	3313.93	4.54	154.24	2.40	-154.15	440589.04	608986.74	
3414.00	5.01	47.93	3408.45	9.79	162.18	2.30	-162.00	440594.29	608994.68	
3508.00	5.19	48.89	3502.08	15.34	168.43	0.21	-168.15	440599.84	609000.93	
3697.00	4.79	49.99	3690.36	26.03	180.91	0.22	-180.46	440610.53	609013.41	
3791.00	4.61	49.42	3784.04	31.01	186.79	0.20	-186.25	440615.51	609019.29	
3980.00	4.31	52.41	3972.47	40.29	198.18	0.20	-197.50	440624.79	609030.68	
4169.00	4.48	51.71	4160.92	49.19	209.61	0.09	-208.77	440633.69	609042.11	
4263.00	4.22	53.82	4254.65	53.51	215.28	0.32	-214.37	440638.01	609047.78	
4358.00	4.48	34.70	4349.38	58.62	220.21	1.54	-219.22	440643.12	609052.71	
4547.00	3.91	36.11	4537.87	69.90	228.21	0.31	-227.03	440654.40	609060.71	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Cedar Canyon 16 State #2H
Well: Cedar Canyon 16 State #2H
Wellpath: 1

Date: 3/1/2013 Time: 07:16:27 Page: 2
Co-ordinate(NE) Reference: Well: Cedar Canyon 16 State #2H
Vertical (TVD) Reference: SITE 2953.0
Section (VS) Reference: Well (0.00N,0.00E,270.94Azi)
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
4736.00	3.78	37.51	4726.44	80.05	235.80	0.08	-234.46	440664.55	609068.30	
4925.00	3.69	43.71	4915.04	89.38	243.80	0.22	-242.30	440673.88	609076.30	
5114.00	3.30	48.32	5103.69	97.40	252.06	0.25	-250.43	440681.90	609084.56	
5302.00	3.38	44.63	5291.37	104.94	260.00	0.12	-258.24	440689.44	609092.50	
5490.00	2.68	49.82	5479.11	111.72	267.25	0.40	-265.38	440696.22	609099.75	
5679.00	2.29	47.93	5667.93	117.10	273.43	0.21	-271.47	440701.60	609105.93	
5868.00	1.80	58.83	5856.81	121.17	278.77	0.33	-276.75	440705.67	609111.27	
6057.00	1.80	56.19	6045.72	124.35	283.78	0.04	-281.70	440708.85	609116.28	
6246.00	1.49	69.81	6234.64	126.85	288.55	0.26	-286.43	440711.35	609121.05	
6435.00	1.49	68.80	6423.58	128.59	293.15	0.01	-291.00	440713.09	609125.65	
6624.00	1.19	77.59	6612.52	129.90	297.36	0.19	-295.19	440714.40	609129.86	
6813.00	1.01	20.73	6801.49	131.88	299.86	0.56	-297.66	440716.38	609132.36	
7002.00	0.79	319.29	6990.48	134.43	299.60	0.50	-297.36	440718.93	609132.10	
7191.00	1.58	276.71	7179.44	135.72	296.16	0.60	-293.90	440720.22	609128.66	
7379.00	1.19	253.02	7367.38	135.45	291.72	0.36	-289.46	440719.95	609124.22	
7569.00	1.41	219.10	7557.34	133.06	288.36	0.41	-286.14	440717.56	609120.86	
7758.00	1.49	207.10	7746.28	129.07	285.78	0.17	-283.62	440713.57	609118.28	
7837.00	1.36	229.06	7825.25	127.54	284.60	0.71	-282.47	440712.04	609117.10	
7865.00	1.04	239.94	7853.25	127.20	284.13	1.40	-282.00	440711.70	609116.63	
7960.00	6.45	285.23	7948.02	128.17	278.23	6.07	-276.09	440712.67	609110.73	
8054.00	13.89	278.45	8040.48	131.22	261.95	8.00	-259.76	440715.72	609094.45	
8149.00	21.10	273.86	8131.03	134.05	233.57	7.72	-231.34	440718.55	609066.07	
8243.00	26.64	269.92	8216.96	135.16	195.59	6.13	-193.34	440719.66	609028.09	
8337.00	32.58	270.92	8298.65	135.53	149.16	6.34	-146.92	440720.03	608981.66	
8432.00	38.51	271.95	8375.91	136.95	93.98	6.27	-91.72	440721.45	608926.48	
8526.00	45.90	271.97	8445.50	139.11	30.91	7.86	-28.63	440723.61	608863.41	
8621.00	52.75	272.90	8507.38	142.20	-41.02	7.25	43.35	440726.70	608791.48	
8716.00	61.03	273.35	8559.23	146.55	-120.41	8.72	122.80	440731.05	608712.09	
8747.00	62.65	273.31	8573.85	148.14	-147.69	5.23	150.10	440732.64	608684.81	
8779.00	64.39	273.03	8588.12	149.72	-176.29	5.49	178.72	440734.22	608656.21	
8810.00	66.08	272.56	8601.11	151.09	-204.41	5.62	206.86	440735.59	608628.09	
8842.00	67.38	271.92	8613.75	152.24	-233.78	4.46	236.25	440736.74	608598.72	
8873.00	68.90	270.50	8625.29	152.85	-262.54	6.49	265.02	440737.35	608569.96	
8905.00	70.99	270.00	8636.27	152.98	-292.60	6.69	295.07	440737.48	608539.90	
8936.00	73.20	269.42	8645.80	152.83	-322.10	7.35	324.56	440737.33	608510.40	
8968.00	75.29	269.39	8654.48	152.51	-352.89	6.53	355.35	440737.01	608479.61	
8999.00	76.72	269.06	8661.98	152.10	-382.97	4.73	385.41	440736.60	608449.53	
9031.00	77.81	269.00	8669.04	151.57	-414.18	3.41	416.61	440736.07	608418.32	
9062.00	80.09	268.53	8674.98	150.91	-444.59	7.50	447.01	440735.41	608387.91	
9094.00	82.28	268.56	8679.88	150.11	-476.20	6.84	478.60	440734.61	608356.30	
9125.00	84.18	268.36	8683.53	149.28	-506.97	6.16	509.35	440733.78	608325.53	
9157.00	85.52	268.58	8686.41	148.43	-538.83	4.24	541.19	440732.93	608293.67	
9188.00	86.70	268.36	8688.51	147.61	-569.75	3.87	572.09	440732.11	608262.75	
9220.00	87.62	268.62	8690.09	146.77	-601.70	2.99	604.02	440731.27	608230.80	
9251.00	88.25	268.56	8691.21	146.00	-632.67	2.04	634.98	440730.50	608199.83	
9282.00	88.74	268.59	8692.03	145.23	-663.65	1.58	665.94	440729.73	608168.85	
9314.00	88.95	268.80	8692.67	144.50	-695.63	0.93	697.91	440729.00	608136.87	
9408.00	89.65	269.16	8693.82	142.83	-789.61	0.84	791.85	440727.33	608042.89	
9503.00	89.79	268.93	8694.28	141.25	-884.60	0.28	886.79	440725.75	607947.90	
9597.00	90.00	268.29	8694.46	138.97	-978.57	0.72	980.72	440723.47	607853.93	
9692.00	90.84	269.77	8693.76	137.36	-1073.55	1.79	1075.66	440721.86	607758.95	
9786.00	91.47	270.40	8691.86	137.50	-1167.53	0.95	1169.63	440722.00	607664.97	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 3/1/2013	Time: 07:16:27	Page: 3
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Cedar Canyon 16 State #2H	
Site: Cedar Canyon 16 State #2H	Vertical (TVD) Reference:	SITE 2953.0	
Well: Cedar Canyon 16 State #2H	Section (VS) Reference:	Well (0.00N,0.00E,270.94Azi)	
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
9880.00	92.17	271.58	8688.88	139.12	-1261.46	1.46	1263.58	440723.62	607571.04	
9974.00	92.38	270.86	8685.15	141.12	-1355.37	0.80	1357.50	440725.62	607477.13	
10068.00	92.94	270.78	8680.79	142.46	-1449.26	0.60	1451.40	440726.96	607383.24	
10163.00	91.82	269.99	8676.84	143.10	-1544.17	1.44	1546.31	440727.60	607288.33	
10257.00	90.00	268.14	8675.35	141.57	-1638.14	2.76	1640.24	440726.07	607194.36	
10351.00	90.63	267.91	8674.83	138.33	-1732.08	0.71	1734.12	440722.83	607100.42	
10446.00	91.68	267.94	8672.92	134.89	-1827.00	1.11	1828.96	440719.39	607005.50	
10540.00	90.42	267.65	8671.19	131.27	-1920.91	1.38	1922.80	440715.77	606911.59	
10635.00	91.05	267.98	8669.97	127.65	-2015.83	0.75	2017.66	440712.15	606816.67	
10729.00	92.10	268.01	8667.39	124.36	-2109.74	1.12	2111.49	440708.86	606722.76	
10823.00	91.47	269.85	8664.46	122.61	-2203.67	2.07	2205.39	440707.11	606628.83	
10917.00	92.38	269.93	8661.31	122.43	-2297.62	0.97	2299.32	440706.93	606534.88	
11011.00	90.56	270.13	8658.89	122.48	-2391.58	1.95	2393.27	440706.98	606440.92	
11106.00	91.19	269.54	8657.44	122.21	-2486.57	0.91	2488.24	440706.71	606345.93	
11200.00	90.56	270.12	8656.01	121.93	-2580.56	0.91	2582.21	440706.43	606251.94	
11294.00	91.19	269.89	8654.57	121.94	-2674.55	0.71	2676.19	440706.44	606157.95	
11389.00	88.88	268.51	8654.51	120.61	-2769.53	2.83	2771.13	440705.11	606062.97	
11484.00	89.37	268.53	8655.96	118.16	-2864.48	0.52	2866.04	440702.66	605968.02	
11578.00	90.42	268.18	8656.14	115.46	-2958.44	1.18	2959.94	440699.96	605874.06	
11672.00	92.31	270.50	8653.90	114.37	-3052.40	3.18	3053.87	440698.87	605780.10	
11767.00	90.70	269.50	8651.40	114.37	-3147.36	1.99	3148.82	440698.87	605685.14	
11861.00	88.95	269.80	8651.69	113.80	-3241.36	1.89	3242.79	440698.30	605591.14	
11956.00	89.79	269.92	8652.73	113.57	-3336.35	0.89	3337.77	440698.07	605496.15	
12050.00	90.70	269.35	8652.33	112.97	-3430.35	1.14	3431.74	440697.47	605402.15	
12144.00	91.33	268.63	8650.67	111.31	-3524.32	1.02	3525.67	440695.81	605308.18	
12238.00	92.45	268.91	8647.57	109.30	-3618.24	1.23	3619.55	440693.80	605214.26	
12333.00	91.68	268.40	8644.14	107.07	-3713.15	0.97	3714.41	440691.57	605119.35	
12427.00	90.63	269.55	8642.25	105.39	-3807.12	1.66	3808.33	440689.89	605025.38	
12521.00	91.19	269.54	8640.76	104.64	-3901.10	0.60	3902.29	440689.14	604931.40	
12616.00	91.40	267.24	8638.61	101.97	-3996.03	2.43	3997.17	440686.47	604836.47	
12710.00	90.49	268.14	8637.06	98.18	-4089.94	1.36	4091.00	440682.68	604742.56	
12898.00	89.79	268.91	8636.60	93.34	-4277.88	0.55	4278.83	440677.84	604554.62	
12992.00	90.63	268.06	8636.25	90.86	-4371.84	1.27	4372.74	440675.36	604460.66	
13087.00	92.17	268.45	8633.93	87.97	-4466.77	1.67	4467.61	440672.47	604365.73	
13170.00	93.08	268.20	8630.13	85.54	-4549.64	1.14	4550.43	440670.04	604282.86	Last Wft Svy
13240.00	93.08	268.20	8626.37	83.35	-4619.51	0.00	4620.25	440667.85	604212.99	Proj. to Bit

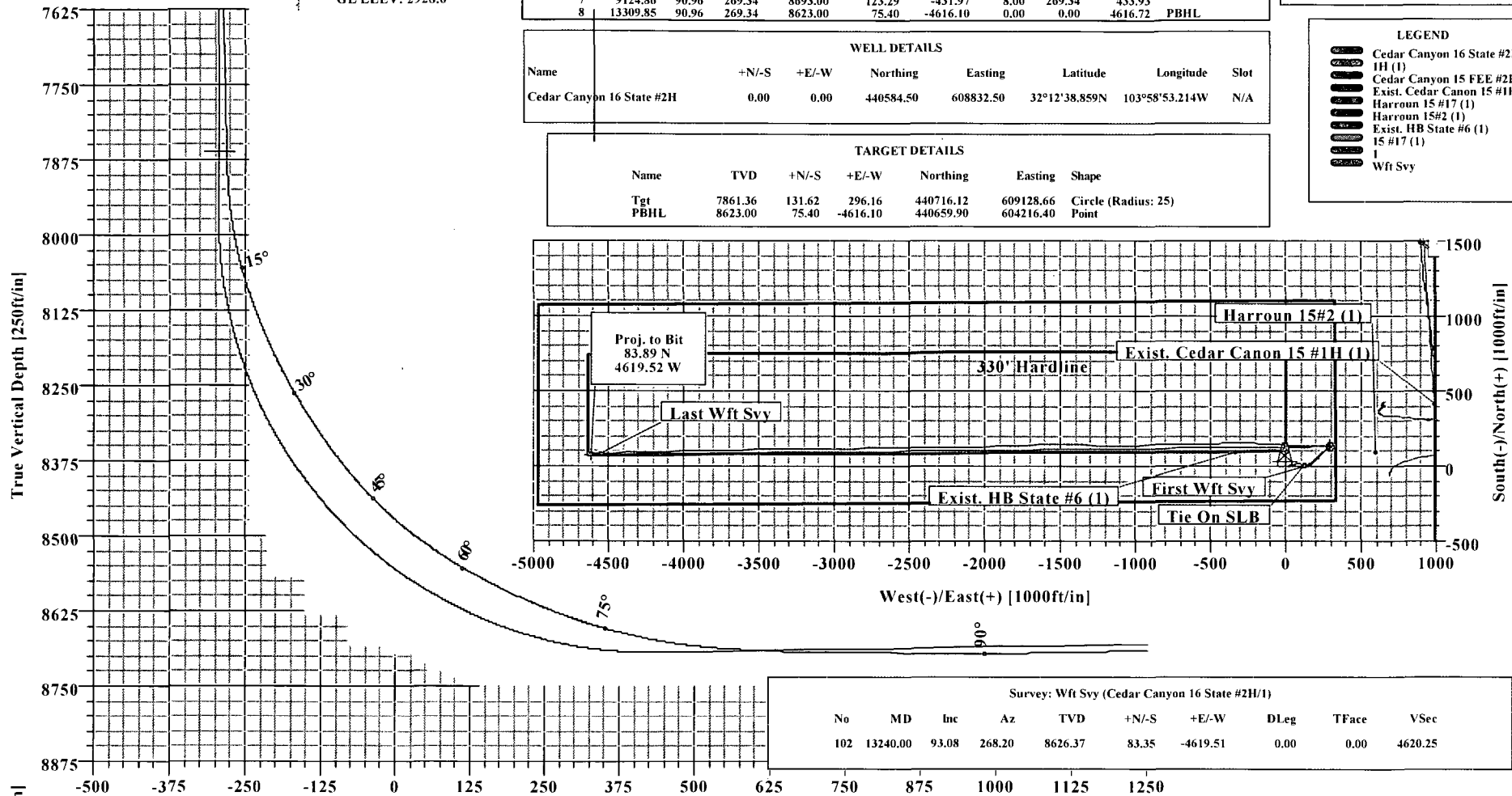
Annotation

MD ft	TVD ft	
2944.00	2940.71	Tie On SLB
3036.00	3032.48	First Wft Svy
13170.00	8630.13	Last Wft Svy
13240.00	8626.37	Proj. to Bit



Cedar Canyon 16 State #2H Eddy Co, NM

KB ELEV: 2953.0
GL ELEV: 2928.0



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2944.00	4.00	115.50	2940.71	7.15	120.04	0.00	0.00	-119.91	
2	3100.00	4.00	115.50	3096.33	2.47	129.86	0.00	0.00	-129.81	
3	3315.29	4.00	50.31	3311.20	4.03	142.42	2.00	-122.56	-142.34	
4	6081.10	4.00	50.31	6070.28	127.17	290.80	0.00	0.00	-288.67	
5	6280.98	0.00	269.34	6270.00	131.62	296.16	2.00	180.00	-293.96	
6	7987.88	0.00	269.34	7976.90	131.62	296.16	0.00	0.00	-293.96	
7	9124.86	90.96	269.34	8693.00	123.29	-431.97	8.00	269.34	433.93	
8	13309.85	90.96	269.34	8623.00	75.40	-4616.10	0.00	0.00	4616.72	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cedar Canyon 16 State #2H	0.00	0.00	440584.50	608832.50	32°12'38.859N	103°58'53.214W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Tgt	7861.36	131.62	296.16	440716.12	609128.66	Circle (Radius: 25)
PBHL	8623.00	75.40	-4616.10	440659.90	604216.40	Point

SITE DETAILS

Cedar Canyon 16 State #2H
Site Centre Northing: 440584.50
Easting: 608832.50
Ground Level: 2928.00
Positional Uncertainty: 0.00
Convergence: 0.19

LEGEND

- Cedar Canyon 16 State #2H.1, Plan #
- IH (1)
- Cedar Canyon 15 FEE #2H (1)
- Exist. Cedar Canon 15 #1H (1)
- Harroun 15 #17 (1)
- Harroun 15#2 (1)
- Exist. HB State #6 (1)
- 15 #17 (1)
- I
- Wft Svy

