



Weatherford®

Evaluation, Drilling & Intervention
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Midland, TX USA 79711
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Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: August 23, 2012

Attention: Carlos Mercado

Re: Occidental Permian Ltd
Well: Smokey Bits State Com 2H
Eddy County, New Mexico

15-40196

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

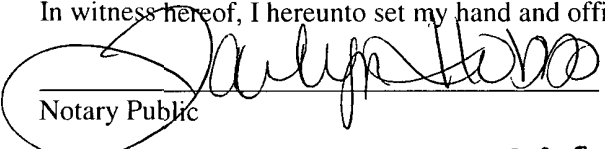
<u>Name & Title</u> <u>Of Surveyor</u>	<u>Well</u> <u>Number</u>	<u>Surveyed</u> <u>Depths</u>	<u>Dates</u> <u>Performed</u>	<u>Type of</u> <u>Survey</u>
Donnie Meister MWD Supervisor	2H	526.00' MD 13011.00' MD	7-25-2012 8-23-2012	Measurement While Drilling

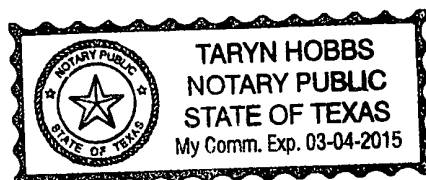
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 23rd 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: 8/22/2012	Time: 12 08.16	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well Smokey Bits State 2H, Grid North		
Site: Smokey Bits State 2H	Vertical (TVD) Reference: SITE 3453.7		
Well: Smokey Bits State 2H	Section (VS) Reference: Well (0.00N,0.00E,95 28Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 7/30/2012
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: Smokey Bits State 2H

Site Position:	Northing: 621044.40 ft	Latitude: 32 42 24 158 N
From: Map	Easting: 623042 60 ft	Longitude: 103 55 59 944 W
Position Uncertainty: 0 00 ft		North Reference: Grd
Ground Level: 3428.70 ft		Grid Convergence: 0 22 deg

Well: Smokey Bits State 2H	Slot Name:
Well Position: +N/-S 0 00 ft	Northing: 621044 40 ft
+E/-W 0 00 ft	Easting : 623042 60 ft
Position Uncertainty: 0 00 ft	Latitude: 32 42 24 158 N
	Longitude: 103 55 59 944 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0 00 ft
Magnetic Data: 8/1/2012	Above System Datum: Mean Sea Level
Field Strength: 48780 nT	Declination: 7 65 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60 54 deg
ft	+E/-W
	ft
0 00	0.00
	0.00
	95 28

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
474.00	1.72	82.16	473.96	-0.67	4.86	0.00	4.90	621043.73	623047.46	Tie on Gyro
495.00	1.62	84.01	494.95	-0.59	5.47	0.55	5.50	621043.81	623048.07	Csg
526.00	1.47	87.21	525.94	-0.53	6.30	0.55	6.32	621043.87	623048.90	First Wft Svy
723.00	3.25	50.09	722.77	3.18	13.11	1.15	12.76	621047.58	623055.71	
819.00	2.35	47.60	818.66	6.25	16.65	0.95	16.00	621050.65	623059.25	
914.00	1.42	40.14	913.61	8.47	18.85	1.01	17.99	621052.87	623061.45	
1007.00	1.48	34.22	1006.58	10.34	20.26	0.17	19.23	621054.74	623062.86	
1100.00	1.65	29.05	1099.54	12.50	21.59	0.24	20.35	621056.90	623064.19	
1193.00	0.65	13.94	1192.52	14.19	22.37	1.11	20.97	621058.59	623064.97	
1285.00	0.22	339.98	1284.52	14.86	22.43	0.53	20.97	621059.26	623065.03	
1382.00	0.07	346.15	1381.52	15.09	22.35	0.16	20.87	621059.49	623064.95	
1476.00	0.35	12.51	1475.52	15.43	22.40	0.31	20.89	621059.83	623065.00	
1571.00	0.53	251.89	1570.52	15.57	22.05	0.81	20.52	621059.97	623064.65	
1665.00	0.69	245.12	1664.51	15.20	21.12	0.19	19.63	621059.60	623063.72	
1854.00	0.47	257.19	1853.50	14.55	19.33	0.13	17.91	621058.95	623061.93	
1937.00	0.63	264.63	1936.50	14.43	18.55	0.21	17.14	621058.83	623061.15	
2031.00	0.50	248.80	2030.49	14.23	17.65	0.21	16.27	621058.63	623060.25	
2125.00	0.56	281.86	2124.49	14.18	16.82	0.33	15.44	621058.58	623059.42	
2220.00	0.51	264.68	2219.49	14.24	15.94	0.18	14.56	621058.64	623058.54	
2314.00	0.51	281.90	2313.48	14.28	15.12	0.16	13.74	621058.68	623057.72	
2408.00	0.63	285.42	2407.48	14.51	14.21	0.13	12.81	621058.91	623056.81	
2503.00	0.49	266.42	2502.47	14.62	13.30	0.24	11.90	621059.02	623055.90	
2597.00	0.43	290.07	2596.47	14.72	12.57	0.21	11.16	621059.12	623055.17	
2692.00	0.63	295.54	2691.47	15.06	11.76	0.22	10.33	621059.46	623054.36	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Site: Smokey Bits State 2H
Well: Smokey Bits State 2H
Wellpath: 1

Date: 8/22/2012 **Time:** 12:08:16 **Page:** 2
Co-ordinate(NE) Reference: Well, Smokey Bits State 2H, Grid North
Vertical (TVD) Reference: SITE 3453 7
Section (VS) Reference: Well (0 00N,0 00E,95 28Azi)
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
2786.00	0.47	287.41	2785.46	15.40	10.93	0.19	9.46	621059.80	623053.53	
2880.00	0.69	332.64	2879.46	16.02	10.30	0.52	8.78	621060.42	623052.90	
2975.00	0.47	305.51	2974.45	16.76	9.72	0.36	8.14	621061.16	623052.32	
3069.00	0.45	312.12	3068.45	17.23	9.13	0.06	7.51	621061.63	623051.73	
3163.00	0.45	303.67	3162.45	17.68	8.55	0.07	6.89	621062.08	623051.15	
3258.00	0.50	299.60	3257.44	18.09	7.88	0.06	6.18	621062.49	623050.48	
3352.00	0.71	319.06	3351.44	18.73	7.14	0.31	5.39	621063.13	623049.74	
3447.00	0.63	328.90	3446.43	19.63	6.49	0.15	4.65	621064.03	623049.09	
3541.00	0.65	313.96	3540.43	20.44	5.84	0.18	3.93	621064.84	623048.44	
3620.00	0.72	323.57	3619.42	21.15	5.22	0.17	3.25	621065.55	623047.82	Csg
3671.00	0.78	328.72	3670.42	21.71	4.85	0.17	2.83	621066.11	623047.45	
3765.00	0.66	323.40	3764.41	22.69	4.19	0.15	2.08	621067.09	623046.79	
3860.00	0.25	253.96	3859.41	23.07	3.66	0.65	1.53	621067.47	623046.26	
3954.00	0.41	187.80	3953.40	22.68	3.42	0.41	1.32	621067.08	623046.02	
4048.00	0.44	190.81	4047.40	21.99	3.31	0.04	1.27	621066.39	623045.91	
4143.00	0.35	199.38	4142.40	21.36	3.14	0.11	1.17	621065.76	623045.74	
4237.00	0.16	179.09	4236.40	20.96	3.05	0.22	1.11	621065.36	623045.65	
4331.00	0.10	85.51	4330.40	20.83	3.13	0.21	1.20	621065.23	623045.73	
4426.00	0.29	44.06	4425.40	21.01	3.38	0.24	1.44	621065.41	623045.98	
4520.00	0.22	140.24	4519.40	21.04	3.67	0.41	1.71	621065.44	623046.27	
4615.00	0.30	48.79	4614.40	21.07	3.97	0.40	2.01	621065.47	623046.57	
4709.00	0.53	50.43	4708.39	21.51	4.49	0.24	2.49	621065.91	623047.09	
4803.00	0.63	107.56	4802.39	21.63	5.32	0.60	3.30	621066.03	623047.92	
4898.00	0.56	212.57	4897.39	21.08	5.57	0.99	3.60	621065.48	623048.17	
4992.00	0.43	253.08	4991.38	20.59	4.98	0.39	3.06	621064.99	623047.58	
5087.00	0.53	275.53	5086.38	20.53	4.20	0.22	2.30	621064.93	623046.80	
5181.00	0.60	293.42	5180.38	20.77	3.32	0.20	1.39	621065.17	623045.92	
5276.00	0.76	309.90	5275.37	21.37	2.38	0.26	0.40	621065.77	623044.98	
5370.00	0.63	233.76	5369.36	21.46	1.48	0.92	-0.50	621065.86	623044.08	
5465.00	0.47	275.33	5464.36	21.19	0.67	0.44	-1.28	621065.59	623043.27	
5559.00	1.26	213.86	5558.35	20.37	-0.29	1.19	-2.16	621064.77	623042.31	
5653.00	1.25	213.86	5652.33	18.66	-1.43	0.01	-3.14	621063.06	623041.17	
5748.00	1.15	219.83	5747.31	17.06	-2.62	0.17	-4.18	621061.46	623039.98	
5842.00	1.03	222.75	5841.29	15.72	-3.80	0.14	-5.23	621060.12	623038.80	
5937.00	1.13	237.15	5936.27	14.58	-5.17	0.30	-6.49	621058.98	623037.43	
6031.00	1.16	246.50	6030.25	13.70	-6.82	0.20	-8.05	621058.10	623035.78	
6126.00	1.35	247.59	6125.23	12.89	-8.73	0.20	-9.88	621057.29	623033.87	
6220.00	1.29	253.66	6219.21	12.17	-10.77	0.16	-11.85	621056.57	623031.83	
6315.00	1.14	255.11	6314.19	11.63	-12.71	0.16	-13.73	621056.03	623029.89	
6409.00	1.00	258.13	6408.17	11.22	-14.42	0.16	-15.39	621055.62	623028.18	
6504.00	0.47	189.33	6503.16	10.66	-15.29	0.99	-16.21	621055.06	623027.31	
6598.00	0.56	155.60	6597.16	9.87	-15.17	0.33	-16.01	621054.27	623027.43	
6693.00	0.50	148.91	6692.15	9.09	-14.76	0.09	-15.53	621053.49	623027.84	
6787.00	0.50	157.24	6786.15	8.36	-14.39	0.08	-15.10	621052.76	623028.21	
6881.00	1.22	109.26	6880.14	7.65	-13.29	1.02	-13.93	621052.05	623029.31	
6976.00	1.23	102.64	6975.12	7.09	-11.34	0.15	-11.94	621051.49	623031.26	
7070.00	1.35	90.79	7069.10	6.86	-9.24	0.31	-9.84	621051.26	623033.36	
7165.00	1.75	89.26	7164.06	6.86	-6.67	0.42	-7.28	621051.26	623035.93	
7259.00	1.60	81.87	7258.02	7.07	-3.94	0.28	-4.57	621051.47	623038.66	
7354.00	1.06	59.73	7352.99	7.70	-1.87	0.77	-2.57	621052.10	623040.73	
7448.00	2.11	95.39	7446.96	7.97	0.61	1.48	-0.13	621052.37	623043.21	
7542.00	1.82	100.72	7540.90	7.53	3.79	0.36	3.09	621051.93	623046.39	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 8/22/2012	Time: 12:08 16	Page: 3
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: Smokey Bits State 2H, Grid North	
Site: Smokey Bits State 2H	Vertical (TVD) Reference:	SITE 3453 7	
Well: Smokey Bits State 2H	Section (VS) Reference:	Well (0 00N,0 00E,95.28Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
7637 00	2 62	153 59	7635.84	5 31	6 24	2.21	5 73	621049 71	623048.84	
7700.00	4.20	158 87	7698 73	1 86	7.72	2.55	7 51	621046.26	623050.32	
7725 00	4 48	159 37	7723 66	0.10	8 39	1 13	8 35	621044 50	623050.99	
7756 00	5 90	153.78	7754 53	-2.47	9 52	4 86	9 71	621041 93	623052.12	
7788.00	8 95	144.02	7786 26	-5 96	11 71	10.28	12.21	621038.44	623054.31	
7819.00	11 89	138.55	7816.74	-10.30	15.24	10.00	16.12	621034.10	623057.84	
7851.00	14 71	134.16	7847.88	-15.61	20.34	9 35	21 69	621028.79	623062.94	
7882 00	17.60	130.77	7877.66	-21.41	26.71	9 80	28.57	621022 99	623069 31	
7914.00	20.34	129.59	7907 92	-28.11	34 67	8 65	37.11	621016 29	623077.27	
7945 00	22.25	129 47	7936 80	-35 28	43.35	6 16	46 41	621009.12	623085.95	
7976.00	23.68	126 05	7965.34	-42 67	52 91	6.31	56 62	621001 73	623095 51	
8008.00	24.35	119 36	7994.58	-49 69	63.86	8.76	68.16	620994.71	623106 46	
8039 00	24.16	112.26	8022.85	-55 23	75 30	9.42	80.07	620989.17	623117 90	
8071 00	24.81	104 17	8051.98	-59 36	87.88	10.67	92.97	620985.04	623130.48	
8102 00	25.38	101.72	8080.05	-62.30	100.69	3.82	105.99	620982 10	623143 29	
8134 00	26 42	101 97	8108 84	-65 17	114 37	3 27	119.88	620979 23	623156.97	
8165 00	28 57	103 23	8136.33	-68 29	128 33	7.18	134.07	620976 11	623170.93	
8197.00	30.60	104 48	8164.16	-72 08	143 67	6 63	149 69	620972 32	623186 27	
8228.00	33 54	103 74	8190 43	-76 09	159 63	9.57	165.96	620968 31	623202.23	
8260 00	34 71	104 75	8216.92	-80 51	177.03	4.06	183 69	620963 89	623219 63	
8291 00	37 09	104.40	8242.03	-85.08	194 62	7 71	201 63	620959 32	623237 22	
8323 00	39 10	105 03	8267 21	-90.10	213.72	6 40	221.10	620954.30	623256.32	
8354 00	40.98	104.28	8290.94	-95.14	233.01	6.26	240.78	620949.26	623275.61	
8386 00	42.48	102.97	8314.82	-100 16	253.71	5.42	261.85	620944.24	623296 31	
8417.00	44 60	101.80	8337 29	-104.73	274 57	7 32	283.04	620939 67	623317 17	
8449 00	47.87	102.48	8359.43	-109 59	297 15	10.33	305 98	620934 81	623339.75	
8480 00	50.78	102 92	8379.63	-114 76	320 09	9 45	329.29	620929 64	623362.69	
8512 00	53 74	103 26	8399.21	-120 50	344 73	9 29	354.36	620923 90	623387 33	
8543.00	57 08	102.95	8416.81	-126 28	369.58	10.81	379.64	620918 12	623412 18	
8575 00	60.01	101.16	8433.51	-131 97	396 28	10.32	406 74	620912.43	623438 88	
8606 00	63 03	101.09	8448 29	-137.23	423.01	9 74	433 84	620907.17	623465 61	
8638.00	64 86	101.23	8462 34	-142 79	451.21	5.73	462 44	620901 61	623493 81	
8669.00	67 66	99.99	8474 82	-148 02	479.10	9.75	490 69	620896 38	623521 70	
8701 00	70 35	99 00	8486.29	-152.94	508 57	8.89	520.48	620891 46	623551.17	
8732 00	73 76	98.04	8495 84	-157 31	537 73	11.39	549.92	620887 09	623580 33	
8764.00	77 30	96 96	8503.83	-161 35	568 44	11.53	580.88	620883 05	623611.04	
8795 00	80 43	96.15	8509 82	-164 82	598 66	10.42	611.28	620879 58	623641.26	
8826.00	82.70	95.82	8514 36	-168.02	629.15	7.40	641.94	620876 38	623671.75	
8858 00	85.10	95.90	8517 76	-171 26	660 80	7.50	673.76	620873 14	623703.40	
8889 00	87.42	96 46	8519 79	-174.59	691.55	7 70	704 69	620869.81	623734.15	
8984 00	87.90	97 25	8523.66	-185.92	785 80	0 97	799 57	620858.48	623828 40	
9078.00	87.34	97 90	8527.57	-198 30	878.89	0 91	893 41	620846 10	623921 49	
9172.00	87.34	95 91	8531.93	-209 59	972 11	2.11	987.27	620834 81	624014 71	
9266.00	87.55	93 71	8536.12	-217 47	1065.68	2 35	1081.17	620826.93	624108 28	
9361 00	87 69	93 64	8540.07	-223 55	1160.40	0 16	1176 05	620820.85	624203 00	
9455 00	89.37	91 80	8542 48	-228.01	1254.26	2 65	1269 92	620816 39	624296 86	
9549 00	88 81	92.13	8543 97	-231 23	1348.19	0 69	1363.75	620813 17	624390 79	
9643 00	88.60	92.00	8546.10	-234 62	1442 10	0 26	1457 57	620809 78	624484.70	
9738.00	88.39	92 38	8548.59	-238.25	1537 00	0 46	1552.40	620806 15	624579.60	
9834 00	88.53	92 29	8551 17	-242.16	1632 89	0.17	1648 24	620802.24	624675 49	
9926 00	88 39	92.71	8553 64	-246 17	1724.76	0.48	1740.10	620798.23	624767 36	
10021.00	88 25	92 97	8556.43	-250 87	1819 61	0.31	1834 97	620793 53	624862.21	
10115.00	88.53	92 98	8559.07	-255 75	1913 44	0.30	1928.86	620788 65	624956.04	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 8/22/2012	Time: 12 08:16	Page: 4
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well, Smokey Bits State 2H, Grid North		
Site: Smokey Bits State 2H	Vertical (TVD) Reference: SITE 3453 7		
Well: Smokey Bits State 2H	Section (VS) Reference: Well (0.00N,0 00E,95 28Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
10209.00	88.81	93.14	8561.25	-260.77	2007.28	0.34	2022.76	620783.63	625049.88	
10304.00	88.95	93.06	8563.11	-265.90	2102.13	0.17	2117.68	620778.50	625144.73	
10398.00	89.09	93.14	8564.72	-270.99	2195.98	0.17	2211.59	620773.41	625238.58	
10492.00	88.88	93.53	8566.38	-276.45	2289.80	0.47	2305.53	620767.95	625332.40	
10587.00	88.74	93.92	8568.35	-282.62	2384.58	0.44	2400.47	620761.78	625427.18	
10681.00	89.09	94.13	8570.13	-289.22	2478.33	0.43	2494.43	620755.18	625520.93	
10776.00	89.23	94.40	8571.53	-296.28	2573.06	0.32	2589.40	620748.12	625615.66	
10870.00	89.44	94.83	8572.62	-303.85	2666.75	0.51	2683.39	620740.55	625709.35	
10964.00	89.44	94.86	8573.54	-311.79	2760.41	0.03	2777.38	620732.61	625803.01	
11058.00	89.58	94.78	8574.34	-319.68	2854.07	0.17	2871.38	620724.72	625896.67	
11153.00	88.46	93.94	8575.97	-326.91	2948.78	1.47	2966.35	620717.49	625991.38	
11247.00	88.39	94.05	8578.55	-333.45	3042.52	0.14	3060.29	620710.95	626085.12	
11342.00	88.46	93.91	8581.16	-340.04	3137.25	0.16	3155.23	620704.36	626179.85	
11436.00	88.53	93.98	8583.63	-346.51	3231.00	0.11	3249.17	620697.89	626273.60	
11530.00	88.25	93.95	8586.27	-353.01	3324.73	0.30	3343.11	620691.39	626367.33	
11625.00	88.32	94.00	8589.11	-359.59	3419.46	0.09	3438.04	620684.81	626462.06	
11719.00	88.32	94.18	8591.87	-366.29	3513.18	0.19	3531.98	620678.11	626555.78	
11813.00	88.11	94.05	8594.80	-373.03	3606.89	0.26	3625.92	620671.37	626649.49	
11908.00	87.83	94.04	8598.16	-379.73	3701.60	0.29	3720.84	620664.67	626744.20	
12002.00	88.60	93.68	8601.09	-386.05	3795.34	0.90	3814.76	620658.35	626837.94	
12096.00	88.32	93.66	8603.62	-392.07	3889.11	0.30	3908.69	620652.33	626931.71	
12191.00	88.39	93.39	8606.34	-397.91	3983.89	0.29	4003.61	620646.49	627026.49	
12285.00	88.39	93.54	8608.98	-403.59	4077.68	0.16	4097.52	620640.81	627120.28	
12379.00	88.53	93.65	8611.51	-409.48	4171.47	0.19	4191.45	620634.92	627214.07	
12474.00	88.60	93.52	8613.89	-415.42	4266.25	0.16	4286.38	620628.98	627308.85	
12568.00	88.53	93.30	8616.24	-421.01	4360.05	0.25	4380.30	620623.39	627402.65	
12662.00	88.46	93.26	8618.71	-426.38	4453.87	0.09	4474.21	620618.02	627496.47	
12756.00	88.74	93.11	8621.01	-431.60	4547.69	0.34	4568.11	620612.80	627590.29	
12851.00	89.44	92.54	8622.52	-436.28	4642.57	0.95	4663.01	620608.12	627685.17	
12945.00	89.23	92.39	8623.61	-440.33	4736.47	0.27	4756.89	620604.07	627779.07	
13011.00	89.23	92.06	8624.50	-442.89	4802.42	0.50	4822.79	620601.51	627845.02	Last Wft Svy
13073.00	89.23	92.06	8625.33	-445.12	4864.37	0.00	4884.69	620599.28	627906.97	Proj to Bit

Annotation

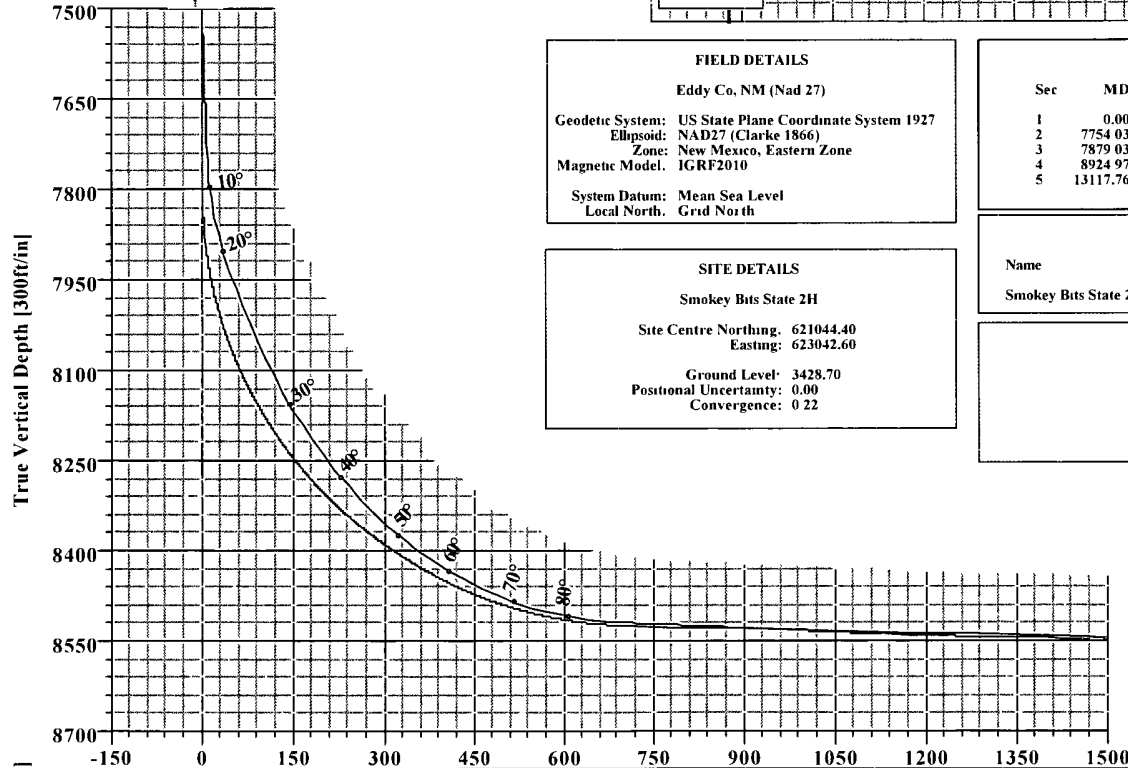
MD ft	TVD ft	
474.00	473.96	Tie on Gyro
526.00	525.94	First Wft Svy
13011.00	8624.50	Last Wft Svy
13073.00	8625.33	Proj to Bit



Occidental Permian Ltd.

Smokey Bits State 2H
Eddy Co, New Mexico

KB ELEV: 3556.6
GL ELEV: 3531.6



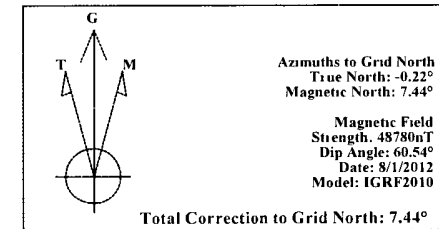
FIELD DETAILS	
Eddy Co, NM (Nad 27)	
Geodetic System:	US State Plane Coordinate System 1927
Ellipsoid:	NAD27 (Clarke 1866)
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North

SITE DETAILS	
Smokey Bits State 2H	
Site Centre Northing:	621044.40
Easting:	623042.60
Ground Level:	3428.70
Positional Uncertainty:	0.00
Convergence:	0.22

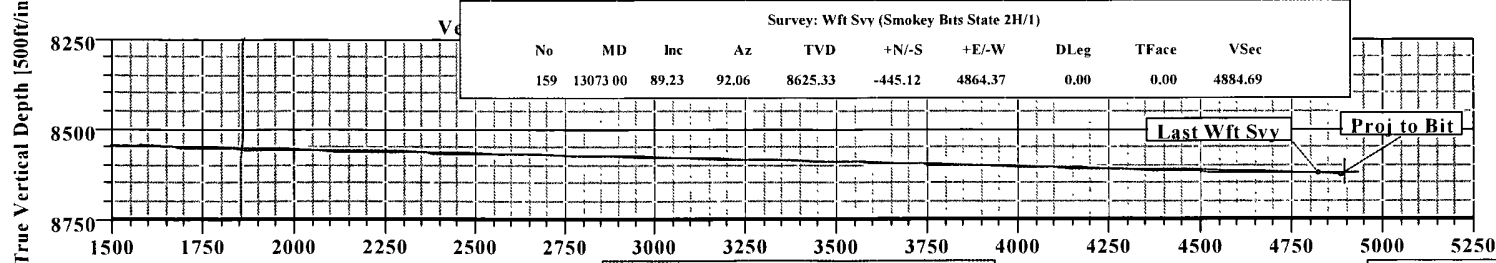
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7754.03	0.00	0.00	7754.03	0.00	0.00	0.00	0.00	0.00
3	7879.03	10.00	154.00	7878.40	-9.78	4.77	8.00	154.00	5.65
4	8924.97	88.65	94.04	8525.00	-155.04	693.01	8.00	-60.54	704.33
5	13117.76	88.65	94.04	8624.00	-450.50	4874.20	0.00	0.00	4894.97 PBHL P5

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Smokey Bits State 2H	0.00	0.00	621044.40	623042.60	32°42'24.158N	103°55'59.944W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL P5	8624.00	-450.50	4874.20	620593.90	627916.80	Point



LEGEND	
	Smokey Bits State 2H.1, Plan #5
	Exist Smokey St 1 (1)
	Wft Svy



Vertical Section at 95.28° [500ft/in]



Survey: Wft Svy (Smokey Bits State 2H/1)
Created By: Patrick Rudolph
Date: 8/22/2012



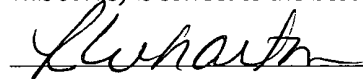
OCCIDENTAL PERMIAN LTD.

Benson
Eddy County, NM
Smokey Bits State Com #2H
VH - Job #32K0712916

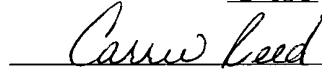
Survey: Gyro

SDI Standard Survey Report

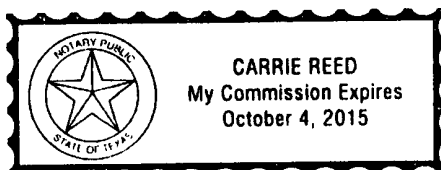
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 3rd of August, 2012.



Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Smokey Bits State Com #2H
Project:	Benson	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	Smokey Bits State Com #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0712916	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0712916	Database:	EDM-Regulatory

Project	Benson		
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:	617,673 61 usft	Latitude:	32° 41' 50 793 N
From:	Lat/Long	Easting:	623,308 69 usft	Longitude:	103° 55' 56 979 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 22 °

Well	Smokey Bits State Com #2H, Directional (Weatherford)					
Well Position	+N/-S	0 00 usft	Northing:	621,039 26 usft	Latitude:	32° 42' 24 120 N
	+E/-W	0 00 usft	Easting:	622,703 59 usft	Longitude:	103° 56' 3 912 W
Position Uncertainty	0 00 usft		Wellhead Elevation:	usft	Ground Level:	0 00 usft

Wellbore	VH - Job #32K0712916				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/24/12	7 66	60 54	48,782

Design	VH - Job #32K0712916				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0 00	0 00	0 00	94 04	

Survey Program	Date	08/13/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
103 00	474 00	Gyro (VH - Job #32K0712916)	Keeper	Keeper Surface Readout

Survey							
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
103 00	0 14	120 91	103 00	-0 06	0 11	120 91	0 13
198 00	0 56	106 90	198 00	-0 26	0 65	111 69	0 70
292 00	0 72	114 41	291 99	-0 64	1 63	111 35	1 75
389 00	0 89	88 03	388 98	-0 86	2 94	106 37	3 06
474 00	1 72	82 16	473 96	-0 67	4 86	97 80	4 91

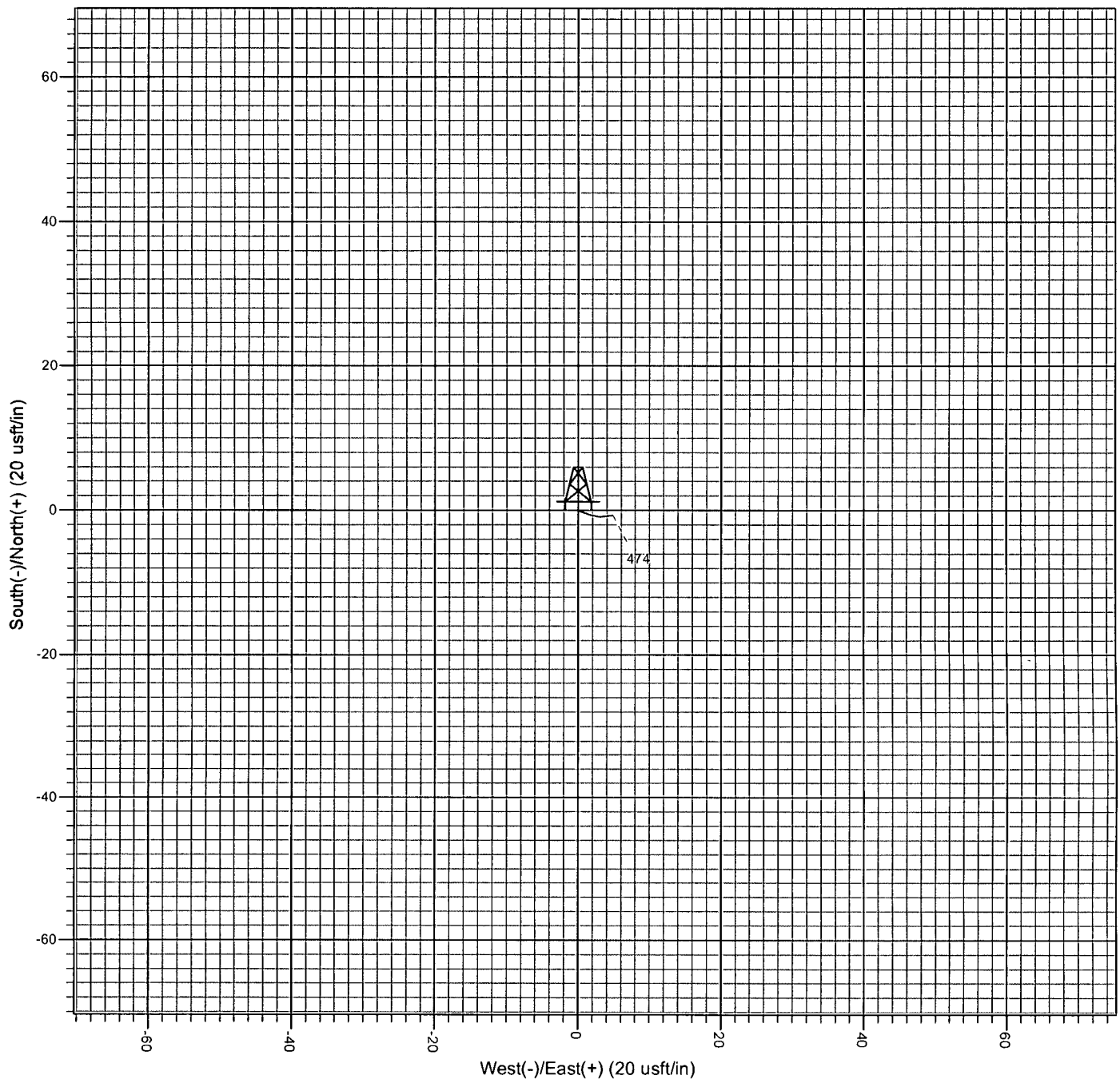


Scientific Drilling

Project: Benson
Eddy County, NM
Well: Smokey Bits State Com #2H
Wellbore: VH - Job #32K0712916
Design: VH - Job #32K0712916

WELL DETAILS: Smokey Bits State Com #2H
WELL @ 0.00usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	621039.26	622703.59	32° 42' 24.120 N	103° 56' 3.912 W	



PROJECT DETAILS: Benson	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 41' 50.793 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 103° 55' 56.979 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0.22
System Datum: Mean Sea Level	Local North: Grid