



Scientific Drilling
Survey Report



Company:	OXY	Local Co-ordinate Reference:	Well: D8F-3H
Project:	Eddy County, New Mexico	TVD Reference:	KB @ 3066.50usft
Site:	Devon 8 Fee 3H	MD Reference:	KB @ 3066.50usft
Well:	D8F 3H	North Reference:	Grid:
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassC

30015 4186

Project:	Eddy County, New Mexico, New Mexico		
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		Devon 8 Fee 3H			
Site Position:		Northing:	414,287.80 usft	Latitude:	32.138808
From:	Map	Easting:	567,118.30 usft	Longitude:	-104.116492
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	D8F-3H					
Well Position	+N/-S	0.00 usft	Northing:	414,287.80 usft	Latitude:	32.138808
	+E/-W	0.00 usft	Easting:	567,118.30 usft	Longitude:	-104.116492
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,041.50 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/07/14	7.48	59.95	48,227

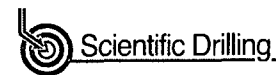
Design:		Wellbore #1			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	90.18	

Survey Program		Date 05/01/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
50.00	422.00	MS Gyro (Wellbore #1)	Generic Gyro	Generic Gyro
484.00	12,481.00	SDI MWD (Wellbore #1)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50.00	0.96	55.13	50.00	0.24	0.34	0.34	1.92	1.92	0.00	
143.00	1.13	48.58	142.98	1.29	1.67	1.67	0.22	0.18	-7.04	
236.00	0.57	81.91	235.97	1.96	2.82	2.81	0.78	-0.60	35.84	
330.00	0.43	70.26	329.97	2.15	3.61	3.60	0.18	-0.15	-12.39	
422.00	0.64	339.78	421.97	2.75	3.76	3.75	0.84	0.23	-98.35	
484.00	0.80	338.93	483.96	3.48	3.48	3.47	0.26	0.26	-1.37	
510.00	1.06	2.09	509.96	3.89	3.43	3.41	1.74	1.00	89.08	
603.00	0.97	347.50	602.94	5.51	3.29	3.27	0.29	-0.10	-15.69	
695.00	1.14	346.36	694.93	7.16	2.90	2.88	0.19	0.18	-1.24	



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Well:	D8F 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassC

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
788.00	1.32	341.08	787.91	9.08	2.34	2.31	0.23	0.19	-5.68
881.00	1.41	352.16	880.88	11.22	1.83	1.80	0.30	0.10	11.91
973.00	1.14	352.33	972.86	13.25	1.56	1.52	0.29	-0.29	0.18
1,068.00	1.06	336.95	1,067.84	15.00	1.09	1.04	0.32	-0.08	-16.19
1,162.00	0.88	339.32	1,161.83	16.47	0.49	0.44	0.20	-0.19	2.52
1,256.00	1.14	334.14	1,255.81	17.99	-0.17	-0.23	0.29	0.28	-5.51
1,351.00	1.14	335.19	1,350.79	19.70	-0.98	-1.04	0.02	0.00	1.11
1,445.00	1.14	322.19	1,444.77	21.28	-1.94	-2.01	0.27	0.00	-13.83
1,539.00	0.09	196.77	1,538.77	21.95	-2.54	-2.61	1.27	-1.12	-133.43
1,634.00	0.62	123.03	1,633.77	21.60	-2.13	-2.20	0.63	0.56	-77.62
1,728.00	0.88	100.09	1,727.76	21.20	-0.99	-1.06	0.42	0.28	-24.40
1,823.00	1.49	97.36	1,822.74	20.91	0.95	0.88	0.64	0.64	-2.87
1,917.00	1.23	138.49	1,916.71	20.00	2.83	2.77	1.05	-0.28	43.76
2,011.00	1.41	142.19	2,010.69	18.33	4.21	4.15	0.21	0.19	3.94
2,106.00	1.23	124.96	2,105.66	16.82	5.76	5.71	0.46	-0.19	-18.14
2,200.00	1.49	112.39	2,199.64	15.78	7.72	7.67	0.42	0.28	-13.37
2,295.00	0.35	262.60	2,294.63	15.27	8.57	8.52	1.90	-1.20	158.12
2,389.00	0.70	277.80	2,388.62	15.31	7.72	7.67	0.40	0.37	16.17
2,484.00	0.62	269.98	2,483.62	15.39	6.63	6.58	0.13	-0.08	-8.23
2,553.00	0.88	281.67	2,552.61	15.50	5.74	5.69	0.44	0.38	16.94
2,670.00	0.79	279.65	2,669.60	15.81	4.06	4.01	0.08	-0.08	-1.73
2,765.00	0.70	268.22	2,764.59	15.91	2.84	2.79	0.18	-0.09	-12.03
2,859.00	0.53	272.44	2,858.59	15.91	1.83	1.78	0.19	-0.18	4.49
2,954.00	0.18	224.98	2,953.58	15.82	1.28	1.23	0.45	-0.37	-49.96
3,048.00	0.53	188.15	3,047.58	15.28	1.12	1.07	0.43	0.37	-39.18
3,143.00	0.44	205.12	3,142.58	14.52	0.90	0.85	0.18	-0.09	17.86
3,237.00	0.26	174.71	3,236.58	13.98	0.77	0.72	0.27	-0.19	-32.35
3,332.00	0.44	203.36	3,331.58	13.43	0.64	0.60	0.26	0.19	30.16
3,426.00	0.35	197.47	3,425.57	12.83	0.41	0.37	0.10	-0.10	-6.27
3,521.00	0.35	180.15	3,520.57	12.26	0.33	0.29	0.11	0.00	-18.23
3,615.00	0.53	202.13	3,614.57	11.57	0.16	0.12	0.26	0.19	23.38
3,710.00	0.62	213.73	3,709.56	10.73	-0.29	-0.32	0.15	0.09	12.21
3,804.00	0.70	195.45	3,803.56	9.76	-0.73	-0.76	0.24	0.09	-19.45
3,899.00	0.88	216.54	3,898.55	8.61	-1.31	-1.34	0.36	0.19	22.20
3,993.00	0.62	233.15	3,992.54	7.73	-2.15	-2.18	0.36	-0.28	17.67
4,088.00	0.88	213.90	4,087.53	6.81	-2.97	-2.99	0.38	0.27	-20.26
4,182.00	0.79	196.41	4,181.52	5.59	-3.56	-3.57	0.29	-0.10	-18.61
4,276.00	0.70	194.04	4,275.51	4.41	-3.88	-3.89	0.10	-0.10	-2.52
4,371.00	0.88	206.35	4,370.51	3.20	-4.34	-4.35	0.26	0.19	12.96
4,465.00	0.97	207.93	4,464.49	1.85	-5.04	-5.04	0.10	0.10	1.68
4,560.00	1.06	206.70	4,559.48	0.35	-5.81	-5.81	0.10	0.09	-1.29
4,654.00	1.14	211.00	4,653.46	-1.23	-6.68	-6.68	0.12	0.09	4.57
4,749.00	0.97	211.27	4,748.45	-2.72	-7.58	-7.57	0.18	-0.18	0.28



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassC

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,843.00	0.97	239.13	4,842.43	-3.81	-8.68	-8.67	0.50	0.00	29.64	
4,938.00	0.97	245.72	4,937.42	-4.55	-10.10	-10.09	0.12	0.00	6.94	
5,032.00	1.07	228.19	5,031.40	-5.47	-11.48	-11.46	0.35	0.11	-18.65	
5,126.00	0.88	215.57	5,125.39	-6.64	-12.56	-12.53	0.30	-0.20	-13.43	
5,221.00	0.79	212.41	5,220.38	-7.79	-13.33	-13.31	0.11	-0.09	-3.33	
5,315.00	0.70	199.67	5,314.37	-8.87	-13.87	-13.84	0.20	-0.10	-13.55	
5,410.00	0.88	192.90	5,409.36	-10.13	-14.23	-14.20	0.21	0.19	-7.13	
5,504.00	1.06	183.85	5,503.35	-11.70	-14.45	-14.41	0.25	0.19	-9.63	
5,598.00	1.23	182.18	5,597.33	-13.58	-14.55	-14.50	0.18	0.18	-1.78	
5,693.00	1.14	186.22	5,692.31	-15.54	-14.69	-14.64	0.13	-0.09	4.25	
5,787.00	0.26	131.38	5,786.30	-16.61	-14.63	-14.58	1.08	-0.94	-58.34	
5,881.00	0.26	99.73	5,880.30	-16.78	-14.26	-14.20	0.15	0.00	-33.67	
5,976.00	0.44	149.66	5,975.30	-17.14	-13.86	-13.81	0.36	0.19	52.56	
6,070.00	0.44	237.02	6,069.30	-17.64	-13.98	-13.93	0.65	0.00	92.94	
6,165.00	1.85	340.20	6,164.28	-16.40	-14.81	-14.75	2.10	1.48	108.61	
6,259.00	2.02	341.35	6,258.23	-13.40	-15.85	-15.81	0.19	0.18	1.22	
6,354.00	1.67	337.04	6,353.18	-10.54	-16.93	-16.89	0.40	-0.37	-4.54	
6,448.00	1.85	329.48	6,447.14	-7.97	-18.23	-18.21	0.31	0.19	-8.04	
6,543.00	2.37	323.33	6,542.07	-5.08	-20.18	-20.17	0.60	0.55	-6.47	
6,637.00	1.32	333.96	6,636.02	-2.54	-21.82	-21.81	1.17	-1.12	11.31	
6,732.00	1.32	342.05	6,731.00	-0.52	-22.64	-22.64	0.20	0.00	8.52	
6,826.00	1.41	339.32	6,824.97	1.59	-23.38	-23.38	0.12	0.10	-2.90	
6,920.00	0.70	358.57	6,918.95	3.25	-23.80	-23.81	0.83	-0.76	20.48	
7,023.00	0.53	321.13	7,021.95	4.25	-24.12	-24.13	0.41	-0.17	-36.35	
7,117.00	2.02	43.92	7,115.93	5.78	-23.24	-23.26	2.15	1.59	88.07	
7,212.00	2.11	20.72	7,210.87	8.62	-21.46	-21.49	0.88	0.09	-24.42	
7,274.00	2.11	8.33	7,272.82	10.82	-20.89	-20.93	0.73	0.00	-19.98	
7,306.00	2.99	61.33	7,304.80	11.80	-20.07	-20.11	7.52	2.75	165.63	
7,337.00	4.57	82.95	7,335.73	12.34	-18.14	-18.18	6.78	5.10	69.74	
7,369.00	7.12	88.31	7,367.56	12.56	-14.89	-14.93	8.14	7.97	16.75	
7,400.00	10.99	91.82	7,398.17	12.52	-10.01	-10.05	12.60	12.48	11.32	
7,432.00	14.68	94.81	7,429.36	12.08	-2.92	-2.96	11.71	11.53	9.34	
7,463.00	17.59	96.22	7,459.14	11.25	5.65	5.61	9.47	9.39	4.55	
7,495.00	20.49	94.90	7,489.39	10.24	16.04	16.01	9.16	9.06	-4.13	
7,526.00	23.57	92.97	7,518.12	9.46	27.64	27.61	10.20	9.94	-6.23	
7,557.00	25.68	92.00	7,546.30	8.90	40.54	40.51	6.93	6.81	-3.13	
7,589.00	26.91	93.41	7,574.99	8.23	54.70	54.67	4.31	3.84	4.41	
7,620.00	28.14	92.97	7,602.48	7.43	69.00	68.98	4.02	3.97	-1.42	
7,652.00	30.34	95.34	7,630.40	6.29	84.59	84.57	7.77	6.88	7.41	
7,683.00	31.30	94.20	7,657.02	4.97	100.42	100.40	3.62	3.10	-3.68	
7,715.00	34.12	93.23	7,683.94	3.86	117.67	117.66	8.96	8.81	-3.03	
7,746.00	37.61	92.26	7,709.06	2.99	135.81	135.80	11.41	11.26	-3.13	
7,778.00	40.71	94.02	7,733.87	1.88	155.98	155.97	10.29	9.69	5.50	



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Survey Report



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Project:	Eddy County, New Mexico	TVD Reference:	KB @ 3066.50usft
Site:	Devon 8 Fee 3H	MD Reference:	KB @ 3066.50usft
Well:	D8F 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,809.00	43.62	94.90	7,756.85	0.25	176.72	176.72	9.58	9.39	2.84
7,841.00	45.37	95.16	7,779.67	-1.71	199.06	199.07	5.50	5.47	0.81
7,872.00	47.66	94.37	7,801.01	-3.58	221.48	221.49	7.61	7.39	-2.55
7,904.00	52.06	93.05	7,821.63	-5.15	245.88	245.90	14.11	13.75	-4.13
7,935.00	54.26	91.47	7,840.22	-6.12	270.67	270.69	8.19	7.10	-5.10
7,966.00	56.01	91.47	7,857.94	-6.78	296.10	296.12	5.65	5.65	0.00
7,998.00	56.45	90.95	7,875.72	-7.34	322.69	322.71	1.93	1.38	-1.63
8,029.00	59.44	91.21	7,892.18	-7.83	348.96	348.98	9.67	9.65	0.84
8,061.00	62.17	90.15	7,907.78	-8.16	376.89	376.91	9.01	8.53	-3.31
8,092.00	63.84	89.98	7,921.85	-8.19	404.51	404.53	5.41	5.39	-0.55
8,124.00	63.93	89.45	7,935.94	-8.05	433.24	433.26	1.51	0.28	-1.66
8,155.00	66.21	89.80	7,949.01	-7.87	461.35	461.37	7.43	7.35	1.13
8,187.00	69.15	89.01	7,961.16	-7.56	490.95	490.97	9.47	9.19	-2.47
8,218.00	71.94	89.58	7,971.48	-7.20	520.17	520.19	9.17	9.00	1.84
8,250.00	71.75	89.80	7,981.45	-7.03	550.58	550.60	0.88	-0.59	0.69
8,281.00	72.90	89.98	7,990.86	-6.98	580.11	580.13	3.75	3.71	0.58
8,313.00	75.57	90.66	7,999.56	-7.15	610.91	610.93	8.59	8.34	2.13
8,344.00	79.05	90.24	8,006.37	-7.39	641.14	641.17	11.30	11.23	-1.35
8,376.00	80.90	91.91	8,011.94	-7.98	672.65	672.67	7.74	5.78	5.22
8,407.00	82.57	92.09	8,016.39	-9.05	703.31	703.33	5.42	5.39	0.58
8,435.00	84.86	91.82	8,019.46	-10.00	731.12	731.15	8.23	8.18	-0.96
8,467.00	87.93	92.00	8,021.47	-11.07	763.03	763.07	9.61	9.59	0.56
8,498.00	88.20	92.09	8,022.52	-12.17	794.00	794.03	0.92	0.87	0.29
8,530.00	88.29	92.09	8,023.50	-13.34	825.96	826.00	0.28	0.28	0.00
8,624.00	87.58	89.63	8,026.89	-14.75	919.88	919.92	2.72	-0.76	-2.62
8,718.00	87.93	89.36	8,030.57	-13.92	1,013.81	1,013.85	0.47	0.37	-0.29
8,813.00	87.93	88.92	8,034.00	-12.49	1,108.73	1,108.77	0.46	0.00	-0.46
8,907.00	87.85	88.40	8,037.46	-10.30	1,202.64	1,202.67	0.56	-0.09	-0.55
9,002.00	87.85	87.61	8,041.02	-6.99	1,297.52	1,297.53	0.83	0.00	-0.83
9,096.00	88.02	87.78	8,044.41	-3.22	1,391.38	1,391.38	0.26	0.18	0.18
9,191.00	88.64	87.43	8,047.18	0.75	1,486.26	1,486.25	0.75	0.65	-0.37
9,285.00	88.90	87.52	8,049.20	4.89	1,580.14	1,580.12	0.29	0.28	0.10
9,380.00	87.76	89.28	8,051.97	7.55	1,675.06	1,675.03	2.21	-1.20	1.85
9,474.00	87.85	89.28	8,055.57	8.73	1,768.98	1,768.95	0.10	0.10	0.00
9,569.00	88.11	89.10	8,058.92	10.07	1,863.92	1,863.87	0.33	0.27	-0.19
9,663.00	87.49	90.07	8,062.52	10.75	1,957.84	1,957.80	1.22	-0.66	1.03
9,758.00	87.41	89.80	8,066.75	10.86	2,052.75	2,052.70	0.30	-0.08	-0.28
9,852.00	87.76	91.74	8,070.71	9.59	2,146.65	2,146.61	2.10	0.37	2.06
9,947.00	88.02	91.82	8,074.21	6.64	2,241.54	2,241.51	0.29	0.27	0.08
10,041.00	88.72	91.65	8,076.88	3.80	2,335.46	2,335.44	0.77	0.74	-0.18
10,136.00	88.99	91.30	8,078.78	1.36	2,430.41	2,430.39	0.47	0.28	-0.37
10,230.00	89.08	91.12	8,080.36	-0.63	2,524.37	2,524.36	0.21	0.10	-0.19
10,324.00	88.72	91.12	8,082.17	-2.47	2,618.34	2,618.33	0.38	-0.38	0.00
10,419.00	88.65	91.12	8,084.35	-4.32	2,713.30	2,713.30	0.07	-0.07	0.00



Scientific Drilling Survey Report



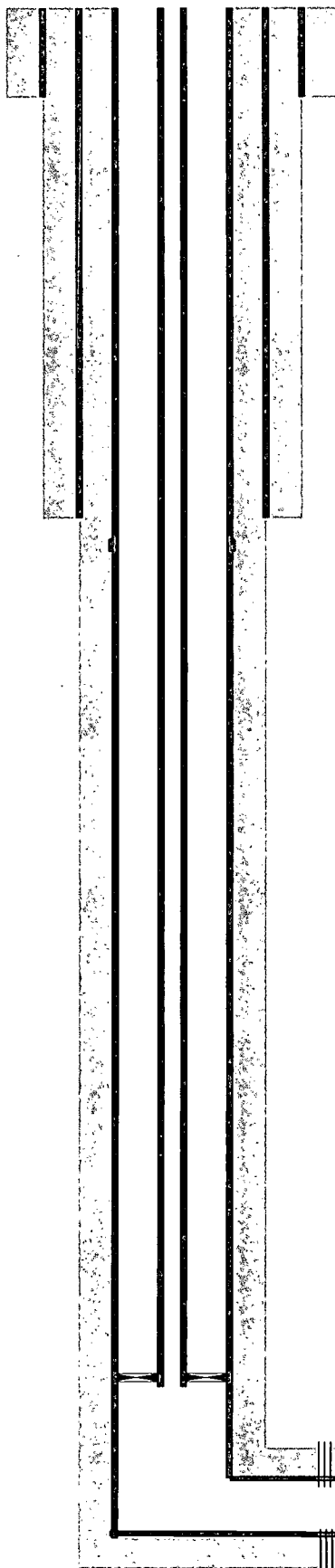
Company:	OXY	Local Co-ordinate Reference:	Well: D8F 3H
Project:	Eddy County, New Mexico	TVD Reference:	KB @ 3066.50usft
Site:	Devon 8 Fee 3H	MD Reference:	KB @ 3066.50usft
Well:	D8F 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	CompassC

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,513.00	88.64	91.03	8,086.57	-6.09	2,807.25	2,807.26	0.10	-0.01	-0.10
10,608.00	88.64	91.03	8,088.83	-7.79	2,902.21	2,902.22	0.00	0.00	0.00
10,702.00	88.72	91.12	8,090.99	-9.56	2,996.17	2,996.18	0.13	0.09	0.10
10,797.00	89.25	91.74	8,092.68	-11.93	3,091.12	3,091.15	0.86	0.56	0.65
10,891.00	88.99	90.86	8,094.12	-14.06	3,185.09	3,185.12	0.98	-0.28	-0.94
10,985.00	88.99	90.42	8,095.78	-15.11	3,279.07	3,279.10	0.47	0.00	-0.47
11,080.00	89.25	90.42	8,097.23	-15.81	3,374.05	3,374.09	0.27	0.27	0.00
11,174.00	89.33	90.38	8,098.40	-16.46	3,468.04	3,468.08	0.10	0.09	-0.04
11,269.00	89.25	89.80	8,099.58	-16.61	3,563.04	3,563.07	0.62	-0.08	-0.61
11,364.00	89.25	90.42	8,100.82	-16.79	3,658.03	3,658.06	0.65	0.00	0.65
11,458.00	89.34	89.45	8,101.98	-16.69	3,752.02	3,752.05	1.04	0.10	-1.03
11,552.00	89.34	90.24	8,103.06	-16.43	3,846.01	3,846.04	0.84	0.00	0.84
11,647.00	87.58	89.36	8,105.61	-16.10	3,940.97	3,941.00	2.07	-1.85	-0.93
11,741.00	87.32	89.28	8,109.80	-14.99	4,034.87	4,034.90	0.29	-0.28	-0.09
11,835.00	87.58	89.98	8,113.98	-14.38	4,128.78	4,128.80	0.79	0.28	0.74
11,930.00	87.41	88.84	8,118.13	-13.40	4,223.68	4,223.70	1.21	-0.18	-1.20
12,024.00	87.14	89.19	8,122.60	-11.79	4,317.56	4,317.57	0.47	-0.29	0.37
12,118.00	87.05	88.48	8,127.36	-9.88	4,411.42	4,411.43	0.76	-0.10	-0.76
12,212.00	87.23	89.01	8,132.05	-7.82	4,505.28	4,505.28	0.59	0.19	0.56
12,307.00	87.49	88.66	8,136.43	-5.89	4,600.16	4,600.15	0.46	0.27	-0.37
12,324.29	87.53	88.56	8,137.18	-5.47	4,617.42	4,617.42	0.65	0.23	-0.60
D8F 3H LTP									
12,324.70	87.53	88.55	8,137.20	-5.46	4,617.84	4,617.83	0.65	0.23	-0.60
HL Exit @ 12324.7									
12,423.00	87.76	87.96	8,141.24	-2.48	4,716.01	4,715.99	0.65	0.23	-0.60
SDI MWD									
12,474.09	87.76	87.96	8,143.23	-0.66	4,767.02	4,767.00	0.00	0.00	0.00
D8F 3H BHL									
12,481.00	87.76	87.96	8,143.50	-0.41	4,773.93	4,773.90	0.00	0.00	0.00
Bit Projection									

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
12,324.70	8,137.20	-5.46	4,617.84	HL Exit @ 12324.7
12,423.00	8,141.24	-2.48	4,716.01	SDI MWD
12,481.00	8,143.50	-0.41	4,773.93	Bit Projection

Checked By: _____ Approved By: _____ Date: _____

Occidental Permian LP
Devon 8 Fee #3H
API No. 30-15-41886



14-3/4" hole @ 494'
11-3/4" csg @ 494'
w/ 390sx-TOC-Surf-Circ

10-5/8" hole @ 2600'
8-5/8" csg @ 2600'
w/ 690sx-TOC-Surf-Circ

7-7/8" hole @ 12481'
5-1/2" csg @ 12475'
w/ 1450sx-TOC-Surf-Circ
DVT @ 2754'

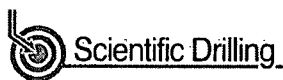
2-7/8" tbg & pkr @ 6980'

Perfs @ 8400-12320'

TD - 12481'M 8144'V
PBD - 12370'M 8138'V

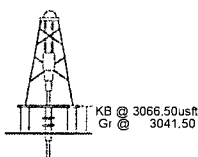


Devon 8 Fee 3H
Eddy County, New Mexico
Northing: 414287.80
Easting: 567118.30
Design #2



To convert a Magnetic Direction to a Grid Direction, Add 7.37°
To convert a True Direction to a Grid Direction, Subtract 0.12°

Azimuths to Grid N
True North: -0
Magnetic North: 7
Magnetic F
Strength: 48227.3
Dip Angle: 59
Date: 04/07/2
Model: IGRF2



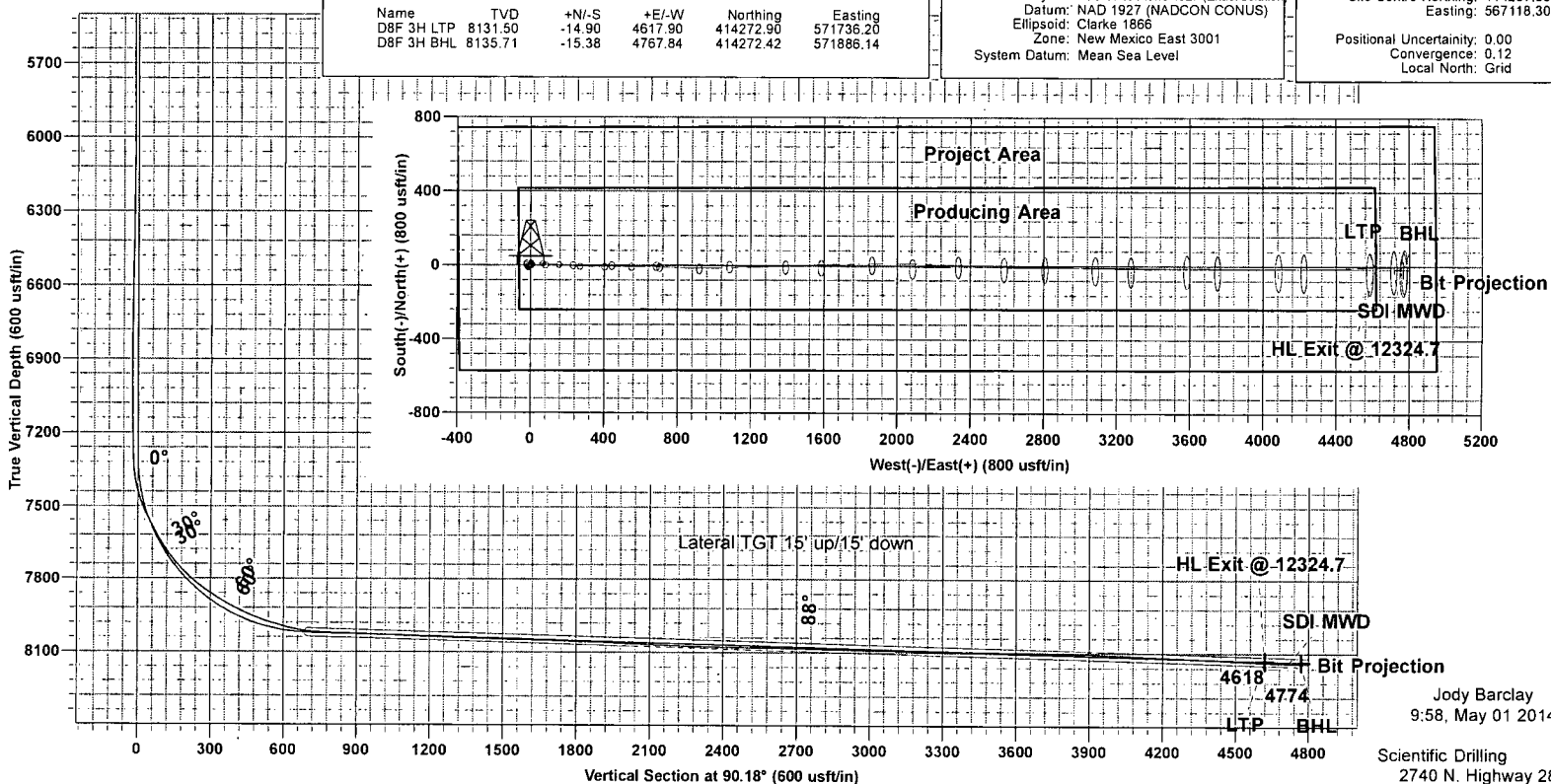
WELL DETAILS D8F 3H					
Ground Level: 3041.50					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	414287.80	567118.30	32.138808	-104.116492

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSac	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7305.35	0.00	0.00	7305.35	0.00	0.00	0.00	0.00	0.00	
8410.22	88.39	90.18	8021.26	-2.25	696.07	8.00	90.18	696.07	
12483.62	88.39	90.18	8135.71	-15.38	4767.84	0.00	0.00	4767.84	

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
D8F 3H LTP	8131.50	-14.90	4617.90	414272.90	571736.20
D8F 3H BHL	8135.71	-15.38	4767.84	414272.42	571886.14

PROJECT DETAILS:
Eddy County, New Mexico
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS:
Devon 8 Fee 3H
Site Centre Northing: 414287.80
Easting: 567118.30
Positional Uncertainty: 0.00
Convergence: 0.12
Local North: Grid



Jody Barclay
9:58, May 01 2014
Scientific Drilling
2740 N. Highway 28
Decatur, Texas 7622