

OPERATOR
WELL/LEASE
COUNTY

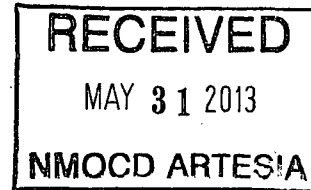
MEWBOURNE OIL COMPANY
SHARPS 3 IL FEDERAL 1H
EDDY

045-0092

STATE OF NEW MEXICO
DEVIATION REPORT

30 015 40666

300	0.81
492	0.85
897	1.50
1,340	2.37
1,454	1.43
1,704	0.91
1,988	3.03
3,841	0.70
4,191	0.50
4,572	0.60
5,016	0.10
5,493	0.80
5,905	0.10
6,350	0.80
6,761	1.60
7,138	2.20



Received

APR 01 2013

Mewbourne Oil Company
Hobbs

BY:

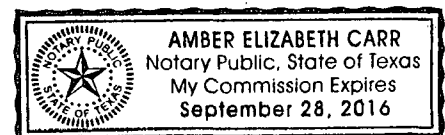
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

3/26/13, by

Notary Public for Midland County, Texas
My Commission Expires:





Company: Mewbourne Oil Company
Lease/Well: Sharps 3 IL Federal / No. 001H
Location: 16 Miles NE Of Carlsbad
Rig Name: Patterson 45
State/County: New Mexico / Eddy
Latitude: 32.54, Longitude: -104.02
GRID North is 0.17 Degrees East of True North
VS-Azi: 0.00 Degrees



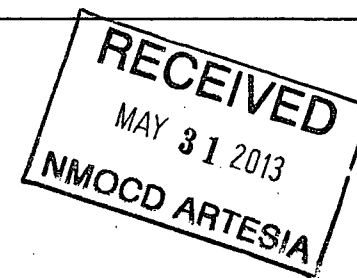
Depth Reference : 18'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 3/22/2013 / 16:29

Vaughn Energy Services
Fort Worth, Texas
817-741-3610

Survey Engineer: Jason Wilson
Sharps 3 IL Federal No. 001H / API 30-015-40666



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.93	210.48	100.00	-0.70	-0.41	-0.70	0.81	210.48	0.93
200.00	0.98	215.19	199.98	-2.10	-1.32	-2.10	2.48	212.10	0.09
300.00	0.85	216.99	299.97	-3.40	-2.26	-3.40	4.08	213.64	0.13
400.00	1.16	218.46	399.95	-4.78	-3.34	-4.78	5.83	214.90	0.30
500.00	1.19	219.17	499.93	-6.38	-4.62	-6.38	7.88	215.92	0.04
600.00	1.13	220.87	599.91	-7.93	-5.92	-7.93	9.90	216.76	0.07
700.00	1.21	221.32	699.89	-9.47	-7.27	-9.47	11.94	217.50	0.08
800.00	1.05	98.27	799.88	-10.39	-7.06	-10.39	12.56	214.18	1.98
900.00	1.73	95.73	899.85	-10.68	-4.65	-10.68	11.64	203.54	0.69
1000.00	2.75	69.62	999.78	-9.99	-0.90	-9.99	10.03	185.13	1.42
1100.00	3.07	65.64	1099.65	-8.05	3.79	-8.05	8.90	154.76	0.38
1200.00	2.70	53.02	1199.52	-5.53	8.12	-5.53	9.82	124.24	0.74
1300.00	2.31	46.76	1299.43	-2.73	11.47	-2.73	11.79	103.37	0.47
1400.00	1.81	45.46	1399.36	-0.24	14.07	-0.24	14.07	90.96	0.51
1500.00	0.85	48.86	1499.33	1.36	15.75	1.36	15.81	85.07	0.96
1600.00	0.51	121.87	1599.33	1.61	16.68	1.61	16.76	84.48	0.85
1700.00	0.96	120.89	1699.32	0.95	17.78	0.95	17.80	86.94	0.45
1800.00	2.94	181.53	1799.26	-2.04	18.42	-2.04	18.54	96.33	2.61

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	3.48	182.06	1899.11	-7.64	18.24	-7.64	19.78	112.72	0.53
2000.00	2.91	184.10	1998.95	-13.20	17.95	-13.20	22.28	126.32	0.58
2100.00	2.03	186.99	2098.86	-17.49	17.56	-17.49	24.78	134.89	0.88
2200.00	1.45	295.81	2198.83	-18.70	16.20	-18.70	24.74	139.09	2.85
2300.00	1.41	296.41	2298.80	-17.60	13.96	-17.60	22.46	141.58	0.05
2400.00	1.67	297.52	2398.76	-16.38	11.57	-16.38	20.05	144.77	0.27
2500.00	1.83	298.39	2498.71	-14.95	8.87	-14.95	17.38	149.32	0.16
2600.00	1.82	311.50	2598.66	-13.13	6.27	-13.13	14.55	154.48	0.42
2700.00	2.23	327.61	2698.60	-10.43	4.03	-10.43	11.19	158.86	0.70
2800.00	2.54	331.87	2798.52	-6.84	1.95	-6.84	7.11	164.10	0.35
2900.00	2.80	339.22	2898.41	-2.60	0.04	-2.60	2.60	179.15	0.43
3000.00	3.04	334.30	2998.28	2.06	-1.97	2.06	2.86	316.26	0.35
3100.00	3.16	331.84	3098.13	6.88	-4.42	6.88	8.18	327.25	0.18
3200.00	2.49	328.41	3198.01	11.16	-6.86	11.16	13.10	328.41	0.68
3300.00	1.86	325.93	3297.94	14.35	-8.91	14.35	16.89	328.17	0.64
3400.00	1.58	328.64	3397.89	16.88	-10.54	16.88	19.90	328.02	0.29
3500.00	1.34	333.27	3497.86	19.11	-11.79	19.11	22.45	328.33	0.27
3600.00	1.16	332.15	3597.84	21.05	-12.79	21.05	24.63	328.72	0.18
3700.00	1.01	335.19	3697.82	22.75	-13.63	22.75	26.52	329.07	0.17
3800.00	0.83	342.50	3797.81	24.24	-14.22	24.24	28.10	329.60	0.21
3900.00	0.73	349.06	3897.80	25.56	-14.56	25.56	29.41	330.33	0.14
4000.00	0.52	356.98	3997.79	26.64	-14.70	26.64	30.43	331.10	0.22
4100.00	0.23	296.45	4097.79	27.18	-14.90	27.18	31.00	331.26	0.46
4200.00	0.22	293.82	4197.79	27.35	-15.26	27.35	31.32	330.84	0.01
4300.00	0.37	292.14	4297.79	27.55	-15.74	27.55	31.73	330.26	0.15
4400.00	0.31	291.24	4397.78	27.77	-16.29	27.77	32.19	329.60	0.07
4500.00	0.40	289.02	4497.78	27.98	-16.87	27.98	32.67	328.92	0.09
4600.00	0.38	286.71	4597.78	28.19	-17.51	28.19	33.19	328.15	0.02
4700.00	0.23	285.23	4697.78	28.34	-18.02	28.34	33.58	327.54	0.16
4800.00	0.20	284.22	4797.78	28.43	-18.39	28.43	33.86	327.11	0.02
4900.00	0.07	282.64	4897.78	28.49	-18.62	28.49	34.03	326.83	0.13
5000.00	0.11	281.68	4997.78	28.52	-18.78	28.52	34.15	326.64	0.03
5100.00	0.12	278.39	5097.78	28.55	-18.97	28.55	34.28	326.41	0.01
5200.00	0.18	272.84	5197.78	28.58	-19.22	28.58	34.44	326.07	0.07
5300.00	0.25	271.48	5297.78	28.59	-19.60	28.59	34.66	325.57	0.07
5400.00	0.35	268.70	5397.77	28.59	-20.12	28.59	34.96	324.87	0.11
5500.00	0.47	267.68	5497.77	28.57	-20.84	28.57	35.36	323.89	0.12
5600.00	0.47	263.54	5597.77	28.50	-21.66	28.50	35.80	322.77	0.03
5700.00	0.43	262.56	5697.77	28.41	-22.44	28.41	36.20	321.70	0.05

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	0.41	260.11	5797.76	28.30	-23.16	28.30	36.57	320.70	0.02
5900.00	0.60	259.72	5897.76	28.14	-24.03	28.14	37.01	319.50	0.18
6000.00	0.90	245.40	5997.75	27.72	-25.26	27.72	37.51	317.66	0.35
6100.00	0.99	243.21	6097.74	27.01	-26.74	27.01	38.01	315.28	0.09
6200.00	0.99	238.73	6197.72	26.17	-28.25	26.17	38.51	312.81	0.08
6300.00	0.92	237.99	6297.71	25.30	-29.67	25.30	38.99	310.45	0.06
6400.00	0.68	172.25	6397.70	24.28	-30.27	24.28	38.81	308.73	0.89
6500.00	0.86	171.47	6497.69	22.95	-30.08	22.95	37.84	307.34	0.18
6600.00	1.01	170.25	6597.68	21.34	-29.82	21.34	36.67	305.58	0.15
6700.00	1.03	156.21	6697.66	19.65	-29.31	19.65	35.29	303.83	0.25
6800.00	1.43	131.84	6797.64	18.00	-28.02	18.00	33.31	302.71	0.65
6900.00	2.00	125.68	6897.59	16.15	-25.68	16.15	30.33	302.17	0.61
7000.00	2.51	107.13	6997.52	14.49	-22.17	14.49	26.48	303.16	0.88
7100.00	2.25	110.93	7097.43	13.14	-18.24	13.14	22.48	305.76	0.30
7200.00	1.88	118.71	7197.37	11.65	-14.97	11.65	18.97	307.89	0.47
7300.00	1.42	117.20	7297.32	10.30	-12.43	10.30	16.14	309.63	0.46
7386.00	1.17	123.64	7383.30	9.32	-10.75	9.32	14.23	310.93	0.33

Actual Wellpath Report

No. 1H AWB_awp

Page 1 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gilbjosl
Scale	0.999918	Report Generated	08/Apr/2013 at 1:44:04 PM
Convergence at slot	0.15° East	Database/Source file	WA Midland/No. 1H AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	585958.57	582187.95	32°36'00.827"N	104°03'15.155"W
Facility Reference Pt			585958.57	582187.95	32°36'00.827"N	104°03'15.155"W
Field Reference Pt			585958.57	582187.95	32°36'00.827"N	104°03'15.155"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.1H (KB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Rig on No.1H (KB) to Mean Sea Level	3337.00ft
Vertical Reference Pt	Rig on No.1H (KB)	Rig on No.1H (KB) to Mud Line at Slot (No.1H SHL)	20.00ft
MD Reference Pt	Rig on No.1H (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	271.43°

Actual Wellpath Report

No. 1H AWB_awp

Page 2 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

WELLPATH DATA (190 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	210.480	0.00	0.00	0.00	0.00	585958.57	582187.95	32°36'00.827"N	104°03'15.155"W	0.00	
20.00	0.000	210.480	20.00	0.00	0.00	0.00	585958.57	582187.95	32°36'00.827"N	104°03'15.155"W	0.00	
100.00	0.930	210.480	100.00	0.32	-0.56	-0.33	585958.24	582187.39	32°36'00.821"N	104°03'15.159"W	1.16	
200.00	0.980	215.190	199.98	1.18	-1.96	-1.23	585957.34	582185.99	32°36'00.807"N	104°03'15.170"W	0.09	
300.00	0.850	216.990	299.97	2.09	-3.25	-2.17	585956.40	582184.70	32°36'00.795"N	104°03'15.181"W	0.13	
400.00	1.160	218.460	399.95	3.13	-4.63	-3.25	585955.32	582183.32	32°36'00.781"N	104°03'15.193"W	0.31	
500.00	1.190	219.170	499.93	4.38	-6.23	-4.53	585954.04	582181.72	32°36'00.765"N	104°03'15.208"W	0.03	
600.00	1.130	220.870	599.91	5.64	-7.78	-5.84	585952.74	582180.17	32°36'00.750"N	104°03'15.224"W	0.07	
700.00	1.210	221.320	699.89	6.94	-9.32	-7.18	585951.39	582178.63	32°36'00.735"N	104°03'15.239"W	0.08	
800.00	1.050	228.270	799.88	6.71	-10.25	-6.97	585951.60	582177.70	32°36'00.726"N	104°03'15.237"W	1.99	
900.00	1.730	95.730	899.85	4.29	-10.53	-4.56	585954.01	582177.42	32°36'00.723"N	104°03'15.209"W	0.68	
1000.00	2.750	69.620	999.78	0.56	-9.84	-0.81	585957.76	582178.11	32°36'00.729"N	104°03'15.165"W	1.42	
1100.00	3.070	65.640	1099.65	-4.08	-7.90	3.88	585962.45	582180.05	32°36'00.748"N	104°03'15.110"W	0.38	
1200.00	2.700	53.020	1199.52	-8.33	-5.38	8.20	585966.77	582182.57	32°36'00.773"N	104°03'15.059"W	0.73	
1300.00	2.310	46.760	1299.43	-11.61	-2.59	11.55	585970.12	582185.37	32°36'00.801"N	104°03'15.020"W	0.48	
1400.00	1.810	45.460	1399.36	-14.14	-0.10	14.14	585972.71	582187.85	32°36'00.825"N	104°03'14.990"W	0.50	
1500.00	0.850	48.860	1499.33	-15.79	1.50	15.83	585974.40	582189.45	32°36'00.841"N	104°03'14.970"W	0.96	
1600.00	0.510	121.870	1599.33	-16.72	1.75	16.77	585975.33	582189.70	32°36'00.844"N	104°03'14.959"W	0.85	
1700.00	0.960	120.890	1699.32	-17.83	1.09	17.86	585976.43	582189.04	32°36'00.837"N	104°03'14.946"W	0.45	
1800.00	2.940	181.530	1799.26	-18.55	1.91	18.51	585977.08	582186.04	32°36'00.807"N	104°03'14.939"W	2.61	
1900.00	3.480	182.060	1899.11	-18.52	-7.50	18.33	585976.90	582180.45	32°36'00.752"N	104°03'14.941"W	0.54	
2000.00	2.910	184.100	1998.95	-18.37	-13.07	18.04	585976.61	582174.88	32°36'00.697"N	104°03'14.945"W	0.58	
2100.00	2.030	186.990	2098.86	-18.08	-17.36	17.65	585976.22	582170.59	32°36'00.655"N	104°03'14.949"W	0.89	
2200.00	1.450	295.810	2198.83	-16.75	-18.57	16.29	585974.86	582169.39	32°36'00.643"N	104°03'14.965"W	2.85	
2300.00	1.410	296.410	2298.80	-14.48	-17.47	14.05	585972.62	582170.48	32°36'00.654"N	104°03'14.991"W	0.04	
2400.00	1.670	297.520	2398.76	-12.06	-16.25	11.66	585970.23	582171.70	32°36'00.666"N	104°03'15.019"W	0.26	
2500.00	1.830	298.390	2498.72	-9.33	-14.82	8.96	585967.53	582173.14	32°36'00.680"N	104°03'15.051"W	0.16	
2600.00	1.820	311.500	2598.67	-6.69	-13.00	6.37	585964.94	582174.95	32°36'00.698"N	104°03'15.081"W	0.42	
2700.00	2.230	327.610	2698.60	-4.39	-10.31	4.13	585962.70	582177.64	32°36'00.725"N	104°03'15.107"W	0.70	
2800.00	2.540	331.870	2798.52	-2.22	-6.71	2.05	585960.62	582181.24	32°36'00.760"N	104°03'15.131"W	0.36	

Actual Wellpath Report

Mewbourne Oil Company

No. 1H AWB_awp
Page 3 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2900.00	2.800	339.220	2898.41	-0.20	-2.47	0.14	585958.71	582185.48	32°36'00.802"N	104°03'15.154"W	0.43	
3000.00	3.040	334.300	2998.28	1.93	2.20	-1.88	585956.69	582190.15	32°36'00.849"N	104°03'15.177"W	0.35	
3100.00	3.160	331.840	3098.13	4.50	7.02	-4.33	585954.24	582194.97	32°36'00.896"N	104°03'15.206"W	0.18	
3200.00	2.490	328.410	3198.01	7.05	11.30	-6.77	585951.80	582199.25	32°36'00.939"N	104°03'15.234"W	0.69	
3300.00	1.860	325.930	3297.94	9.18	14.49	-8.82	585949.75	582202.44	32°36'00.970"N	104°03'15.258"W	0.64	
3400.00	1.580	328.640	3397.89	10.87	17.02	-10.44	585948.13	582204.96	32°36'00.995"N	104°03'15.277"W	0.29	
3500.00	1.340	333.270	3497.86	12.16	19.24	-11.69	585946.88	582207.19	32°36'01.017"N	104°03'15.291"W	0.27	
3600.00	1.160	332.150	3597.84	13.21	21.18	-12.69	585945.89	582209.12	32°36'01.037"N	104°03'15.303"W	0.18	
3700.00	1.010	335.190	3697.82	14.10	22.87	-13.53	585945.04	582210.82	32°36'01.053"N	104°03'15.313"W	0.16	
3800.00	0.830	342.500	3797.81	14.72	24.36	-14.12	585944.46	582212.31	32°36'01.068"N	104°03'15.319"W	0.21	
3900.00	0.730	349.060	3897.80	15.09	25.68	-14.45	585944.12	582213.63	32°36'01.081"N	104°03'15.323"W	0.13	
4000.00	0.520	356.980	3997.79	15.26	26.76	-14.60	585943.97	582214.70	32°36'01.092"N	104°03'15.325"W	0.23	
4100.00	0.230	296.450	4097.79	15.48	27.30	-14.80	585943.77	582215.25	32°36'01.097"N	104°03'15.327"W	0.45	
4200.00	0.220	293.820	4197.79	15.84	27.47	-15.16	585943.41	582215.41	32°36'01.099"N	104°03'15.331"W	0.01	
4300.00	0.370	292.140	4297.79	16.32	27.67	-15.63	585942.94	582215.61	32°36'01.101"N	104°03'15.337"W	0.15	
4400.00	0.310	291.240	4397.79	16.88	27.88	-16.18	585942.39	582215.83	32°36'01.103"N	104°03'15.343"W	0.06	
4500.00	0.400	289.020	4497.78	17.46	28.10	-16.77	585941.81	582216.04	32°36'01.105"N	104°03'15.350"W	0.09	
4600.00	0.380	286.710	4597.78	18.12	28.31	-17.41	585941.16	582216.25	32°36'01.107"N	104°03'15.358"W	0.03	
4700.00	0.230	285.230	4697.78	18.63	28.45	-17.92	585940.65	582216.40	32°36'01.109"N	104°03'15.364"W	0.15	
4800.00	0.200	284.220	4797.78	19.00	28.55	-18.29	585940.28	582216.50	32°36'01.110"N	104°03'15.368"W	0.03	
4900.00	0.070	282.640	4897.78	19.23	28.61	-18.52	585940.06	582216.55	32°36'01.110"N	104°03'15.371"W	0.13	
5000.00	0.110	281.680	4997.78	19.38	28.64	-18.67	585939.90	582216.59	32°36'01.111"N	104°03'15.373"W	0.04	
5100.00	0.120	278.390	5097.78	19.58	28.67	-18.87	585939.70	582216.62	32°36'01.111"N	104°03'15.375"W	0.01	
5200.00	0.180	272.840	5197.78	19.84	28.70	-19.13	585939.44	582216.64	32°36'01.111"N	104°03'15.378"W	0.06	
5300.00	0.250	271.480	5297.78	20.22	28.71	-19.50	585939.07	582216.66	32°36'01.111"N	104°03'15.382"W	0.07	
5400.00	0.350	268.700	5397.78	20.74	28.71	-20.03	585938.55	582216.66	32°36'01.111"N	104°03'15.388"W	0.10	
5500.00	0.470	267.680	5497.77	21.45	28.68	-20.74	585937.83	582216.63	32°36'01.111"N	104°03'15.397"W	0.12	
5600.00	0.470	263.540	5597.77	22.27	28.62	-21.56	585937.01	582216.57	32°36'01.111"N	104°03'15.406"W	0.03	
5700.00	0.430	262.560	5697.77	23.05	28.53	-22.34	585936.23	582216.47	32°36'01.110"N	104°03'15.415"W	0.04	
5800.00	0.410	260.110	5797.76	23.77	28.42	-23.06	585935.51	582216.36	32°36'01.109"N	104°03'15.424"W	0.03	

Actual Wellpath Report

 Mewbourne Oil Company

No. 1H AWB_awp

Page 4 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5900.00	0.600	259.720	5897.76	24.63	28.26	-23.93	585934.64	582216.21	32°36'01.107"N	104°03'15.434"W	0.19	
6000.00	0.900	245.400	5997.75	25.85	27.84	-25.16	585933.41	582215.79	32°36'01.103"N	104°03'15.448"W	0.35	
6100.00	0.990	243.210	6097.74	27.32	27.13	-26.65	585931.93	582215.07	32°36'01.096"N	104°03'15.466"W	0.10	
6200.00	0.990	238.730	6197.72	28.80	26.29	-28.16	585930.42	582214.24	32°36'01.088"N	104°03'15.483"W	0.08	
6300.00	0.920	237.990	6297.71	30.20	25.41	-29.57	585929.00	582213.36	32°36'01.079"N	104°03'15.500"W	0.07	
6400.00	0.680	172.250	6397.70	30.78	24.40	-30.17	585928.40	582212.35	32°36'01.069"N	104°03'15.507"W	0.89	
6500.00	0.860	171.470	6497.69	30.55	23.07	-29.98	585928.59	582211.02	32°36'01.056"N	104°03'15.505"W	0.18	
6600.00	1.010	170.250	6597.68	30.25	21.46	-29.72	585928.85	582209.41	32°36'01.040"N	104°03'15.502"W	0.15	
6700.00	1.030	156.210	6697.66	29.70	19.77	-29.21	585929.36	582207.72	32°36'01.023"N	104°03'15.496"W	0.25	
6800.00	1.430	131.840	6797.64	28.36	18.11	-27.92	585930.65	582206.06	32°36'01.007"N	104°03'15.481"W	0.65	
6900.00	2.000	125.680	6897.60	25.97	16.26	-25.57	585933.00	582204.21	32°36'00.988"N	104°03'15.454"W	0.60	
7000.00	2.510	107.130	6997.52	22.42	14.60	-22.06	585936.51	582202.55	32°36'00.972"N	104°03'15.413"W	0.88	
7100.00	2.250	110.930	7097.43	18.46	13.25	-18.14	585940.44	582201.20	32°36'00.958"N	104°03'15.367"W	0.30	
7200.00	1.880	118.710	7197.37	15.15	11.77	-14.86	585943.71	582199.71	32°36'00.944"N	104°03'15.329"W	0.46	
7300.00	1.420	117.200	7297.33	12.58	10.41	-12.32	585946.25	582198.36	32°36'00.930"N	104°03'15.299"W	0.46	
7386.00	1.170	123.640	7383.30	10.88	9.44	-10.64	585947.93	582197.39	32°36'00.920"N	104°03'15.279"W	0.34	
7476.00	1.800	158.300	7473.27	9.54	7.62	-9.36	585949.21	582195.56	32°36'00.902"N	104°03'15.264"W	1.19	
7508.00	1.900	171.300	7505.26	9.25	6.62	-9.09	585949.48	582194.57	32°36'00.893"N	104°03'15.261"W	1.35	
7540.00	2.000	201.400	7537.24	9.35	5.58	-9.21	585949.36	582193.53	32°36'00.882"N	104°03'15.263"W	3.18	
7571.00	4.300	246.100	7568.20	10.59	4.60	-10.47	585948.10	582192.55	32°36'00.873"N	104°03'15.277"W	10.33	
7603.00	7.600	259.500	7600.02	13.74	3.73	-13.65	585944.92	582191.68	32°36'00.864"N	104°03'15.315"W	11.12	
7635.00	11.300	261.900	7631.58	18.91	2.91	-18.84	585939.73	582190.85	32°36'00.856"N	104°03'15.375"W	11.63	
7667.00	15.000	266.700	7662.74	26.13	2.22	-26.08	585932.49	582190.17	32°36'00.849"N	104°03'15.460"W	12.05	
7698.00	18.700	270.400	7692.40	35.10	2.03	-35.06	585923.52	582189.98	32°36'00.848"N	104°03'15.565"W	12.42	
7730.00	22.700	272.100	7722.33	46.41	2.29	-46.36	585912.21	582190.24	32°36'00.851"N	104°03'15.697"W	12.64	
7762.00	26.500	273.200	7751.42	59.72	2.92	-59.67	585898.91	582190.87	32°36'00.857"N	104°03'15.852"W	11.96	
7794.00	31.000	274.400	7779.47	75.09	3.95	-75.02	585883.56	582191.90	32°36'00.868"N	104°03'16.032"W	14.18	
7825.00	35.500	275.000	7805.39	92.06	5.34	-91.95	585866.62	582193.29	32°36'00.882"N	104°03'16.230"W	14.55	
7857.00	39.600	273.100	7830.75	111.53	6.71	-111.40	585847.18	582194.66	32°36'00.896"N	104°03'16.457"W	13.31	
7889.00	44.000	272.900	7854.60	132.85	7.82	-132.70	585825.88	582195.77	32°36'00.908"N	104°03'16.706"W	13.76	

Actual Wellpath Report

 Mewbourne Oil Company

No. 1H AWB_awp
Page 5 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

WELLPATH DATA (190 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7921.00	48.400	272.700	7876.75	155.93	8.95	-155.76	585802.82	582196.90	32°36'00.919"N	104°03'16.976"W	13.76	
7953.00	52.000	271.800	7897.23	180.51	9.91	-180.32	585778.26	582197.86	32°36'00.929"N	104°03'17.263"W	11.46	
7984.00	54.500	272.900	7915.77	205.35	10.93	-205.14	585753.45	582198.88	32°36'00.940"N	104°03'17.553"W	8.55	
8016.00	56.200	272.900	7933.97	231.66	12.26	-231.43	585727.16	582200.21	32°36'00.954"N	104°03'17.860"W	5.31	
8048.00	57.800	273.600	7951.39	258.48	13.78	-258.22	585700.37	582201.73	32°36'00.970"N	104°03'18.173"W	5.33	
8080.00	60.000	273.700	7967.92	285.86	15.53	-285.56	585673.03	582203.48	32°36'00.988"N	104°03'18.493"W	6.88	
8111.00	62.700	273.800	7982.78	313.04	17.31	-312.71	585645.89	582205.26	32°36'01.006"N	104°03'18.810"W	8.71	
8143.00	65.900	273.300	7996.66	341.85	19.09	-341.48	585617.12	582207.04	32°36'01.025"N	104°03'19.146"W	10.10	
8175.00	68.600	272.800	8009.03	371.35	20.66	-370.95	585587.65	582208.61	32°36'01.041"N	104°03'19.490"W	8.56	
8207.00	71.400	273.600	8019.98	401.40	22.34	-400.97	585557.64	582210.29	32°36'01.058"N	104°03'19.841"W	9.06	
8238.00	73.000	273.700	8029.45	430.89	24.22	-430.42	585528.18	582212.17	32°36'01.078"N	104°03'20.186"W	5.17	
8270.00	75.200	273.300	8038.22	461.65	26.10	-461.14	585497.47	582214.05	32°36'01.097"N	104°03'20.545"W	6.98	
8302.00	79.100	273.200	8045.33	492.82	27.87	-492.28	585466.33	582215.81	32°36'01.115"N	104°03'20.908"W	12.19	
8334.00	83.700	271.400	8050.12	524.45	29.13	-523.89	585434.73	582217.08	32°36'01.129"N	104°03'21.278"W	15.41	
8352.00	85.800	271.800	8051.77	542.38	29.63	-541.80	585416.81	582217.58	32°36'01.134"N	104°03'21.487"W	11.87	
8450.00	89.500	274.200	8055.78	640.23	34.76	-639.56	585319.06	582222.71	32°36'01.187"N	104°03'22.630"W	4.50	
8482.00	89.400	274.100	8056.09	672.19	37.07	-671.48	585287.15	582225.02	32°36'01.211"N	104°03'23.003"W	0.44	
8514.00	89.800	273.500	8056.31	704.17	39.20	-703.41	585255.22	582227.14	32°36'01.233"N	104°03'23.376"W	2.25	
8545.00	91.400	272.400	8055.99	735.15	40.79	-734.36	585224.27	582228.74	32°36'01.249"N	104°03'23.738"W	6.26	
8577.00	92.300	271.900	8054.96	767.13	41.99	-766.32	585192.31	582229.94	32°36'01.262"N	104°03'24.111"W	3.22	
8641.00	92.000	271.600	8052.56	831.09	43.94	-830.25	585128.39	582231.89	32°36'01.283"N	104°03'24.858"W	0.66	
8704.00	91.800	271.100	8050.47	894.05	45.43	-893.19	585065.45	582233.37	32°36'01.299"N	104°03'25.594"W	0.85	
8767.00	91.500	271.100	8048.65	957.02	46.64	-956.16	585002.49	582234.58	32°36'01.313"N	104°03'26.330"W	0.48	
8830.00	90.700	271.200	8047.44	1020.01	47.90	-1019.13	584939.52	582235.85	32°36'01.327"N	104°03'27.066"W	1.28	
8893.00	91.100	270.700	8046.45	1083.00	48.94	-1082.11	584876.55	582236.89	32°36'01.339"N	104°03'27.802"W	1.02	
8956.00	90.400	271.400	8045.63	1145.99	50.10	-1145.10	584813.57	582238.04	32°36'01.352"N	104°03'28.538"W	1.57	
9019.00	90.600	270.800	8045.08	1208.99	51.31	-1208.08	584750.59	582239.25	32°36'01.366"N	104°03'29.275"W	1.00	
9082.00	90.100	269.800	8044.69	1271.97	51.64	-1271.08	584687.60	582239.58	32°36'01.371"N	104°03'30.011"W	1.77	
9146.00	88.100	270.100	8045.70	1335.94	51.58	-1335.07	584623.61	582239.53	32°36'01.372"N	104°03'30.759"W	3.16	
9210.00	89.700	268.800	8046.93	1399.89	50.97	-1399.05	584559.64	582238.91	32°36'01.367"N	104°03'31.507"W	3.22	

Actual Wellpath Report

No. 1H AWB_awp

Page 6 of 8

 Mewbourne Oil Company



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9274.00	89.700	268.300	8047.26	1463.81	49.35	-1463.03	584495.66	582237.29	32°36'01.353"N	104°03'32.255"W	0.78	
9337.00	89.400	268.400	8047.76	1526.71	47.53	-1526.00	584432.70	582235.48	32°36'01.336"N	104°03'32.991"W	0.50	
9400.00	90.500	269.000	8047.81	1589.64	46.11	-1588.98	584369.72	582234.05	32°36'01.324"N	104°03'33.727"W	1.99	
9463.00	91.300	269.000	8046.82	1652.58	45.01	-1651.97	584306.74	582232.95	32°36'01.315"N	104°03'34.463"W	1.27	
9526.00	90.500	269.400	8045.83	1715.52	44.13	-1714.95	584243.76	582232.07	32°36'01.307"N	104°03'35.200"W	1.42	
9589.00	90.700	269.700	8045.17	1778.48	43.63	-1777.95	584180.77	582231.58	32°36'01.304"N	104°03'35.936"W	0.57	
9653.00	91.000	269.500	8044.23	1842.44	43.19	-1841.94	584116.79	582231.13	32°36'01.301"N	104°03'36.684"W	0.56	
9716.00	89.700	270.100	8043.84	1905.41	42.97	-1904.93	584053.80	582230.91	32°36'01.301"N	104°03'37.420"W	2.27	
9780.00	89.500	270.200	8044.29	1969.40	43.13	-1968.93	583989.80	582231.08	32°36'01.304"N	104°03'38.168"W	0.35	
9843.00	88.200	271.100	8045.55	2032.37	43.85	-2031.91	583926.83	582231.79	32°36'01.313"N	104°03'38.904"W	2.51	
9906.00	89.100	271.700	8047.04	2095.36	45.39	-2094.88	583863.87	582233.33	32°36'01.330"N	104°03'39.640"W	1.72	
9969.00	90.300	272.500	8047.37	2158.35	47.69	-2157.83	583800.92	582235.64	32°36'01.354"N	104°03'40.376"W	2.29	
10001.00	90.900	272.100	8047.03	2190.34	48.98	-2189.80	583768.95	582236.92	32°36'01.368"N	104°03'40.750"W	2.25	
10032.00	92.300	272.100	8046.17	2221.33	50.11	-2220.77	583737.99	582238.06	32°36'01.380"N	104°03'41.112"W	4.52	
10064.00	92.300	272.200	8044.88	2253.30	51.31	-2252.72	583706.04	582239.26	32°36'01.392"N	104°03'41.485"W	0.31	
10096.00	92.200	272.000	8043.62	2285.27	52.49	-2284.68	583674.09	582240.43	32°36'01.405"N	104°03'41.859"W	0.70	
10127.00	92.400	272.300	8042.38	2316.25	53.65	-2315.63	583643.14	582241.59	32°36'01.417"N	104°03'42.220"W	1.16	
10159.00	91.900	272.200	8041.18	2348.22	54.90	-2347.58	583611.19	582242.85	32°36'01.430"N	104°03'42.594"W	1.59	
10191.00	90.800	272.700	8040.43	2380.21	56.27	-2379.54	583579.23	582244.22	32°36'01.445"N	104°03'42.967"W	3.78	
10222.00	91.700	272.900	8039.75	2411.19	57.78	-2410.50	583548.28	582245.73	32°36'01.460"N	104°03'43.329"W	2.97	
10254.00	92.100	273.200	8038.69	2443.16	59.49	-2442.44	583516.34	582247.43	32°36'01.478"N	104°03'43.702"W	1.56	
10286.00	91.600	273.800	8037.66	2475.12	61.44	-2474.36	583484.42	582249.38	32°36'01.498"N	104°03'44.076"W	2.44	
10317.00	91.700	273.800	8036.76	2506.08	63.49	-2505.28	583453.50	582251.44	32°36'01.519"N	104°03'44.437"W	0.32	
10349.00	92.200	274.000	8035.67	2538.03	65.67	-2537.18	583421.60	582253.61	32°36'01.541"N	104°03'44.810"W	1.68	
10381.00	92.700	274.300	8034.31	2569.97	67.98	-2569.07	583389.72	582255.93	32°36'01.565"N	104°03'45.182"W	1.82	
10412.00	92.100	273.600	8033.01	2600.91	70.11	-2599.97	583358.82	582258.06	32°36'01.587"N	104°03'45.544"W	2.97	
10444.00	91.200	273.100	8032.09	2632.88	71.98	-2631.90	583326.89	582259.93	32°36'01.606"N	104°03'45.917"W	3.22	
10476.00	89.900	272.200	8031.78	2664.87	73.46	-2663.87	583294.93	582261.41	32°36'01.622"N	104°03'46.290"W	4.94	
10508.00	89.700	272.900	8031.89	2696.86	74.89	-2695.83	583262.96	582262.83	32°36'01.637"N	104°03'46.664"W	2.28	
10539.00	90.300	272.000	8031.89	2727.86	76.21	-2726.80	583232.00	582264.16	32°36'01.651"N	104°03'47.026"W	3.49	

Actual Wellpath Report

No. 1H AWB_awp

Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10571.00	90.700	272.400	8031.61	2759.85	77.44	-2758.78	583200.02	582265.38	32°36'01.664"N	104°03'47.400"W	1.77	
10634.00	90.900	272.300	8030.73	2822.84	80.02	-2821.72	583137.09	582267.97	32°36'01.691"N	104°03'48.135"W	0.35	
10698.00	91.700	273.200	8029.28	2886.80	83.09	-2885.63	583073.18	582271.04	32°36'01.723"N	104°03'48.882"W	1.88	
10761.00	90.500	271.900	8028.07	2949.78	85.90	-2948.55	583010.27	582273.84	32°36'01.752"N	104°03'49.618"W	2.81	
10824.00	90.200	271.300	8027.69	3012.78	87.65	-3011.53	582947.30	582275.60	32°36'01.771"N	104°03'50.354"W	1.06	
10888.00	89.000	271.600	8028.13	3076.77	89.27	-3075.50	582883.33	582277.22	32°36'01.789"N	104°03'51.101"W	1.93	
10952.00	89.900	271.100	8028.75	3140.77	90.78	-3139.48	582819.35	582278.72	32°36'01.805"N	104°03'51.849"W	1.61	
11015.00	91.400	271.500	8028.03	3203.76	92.21	-3202.46	582756.38	582280.15	32°36'01.821"N	104°03'52.585"W	2.46	
11078.00	92.900	271.100	8025.67	3266.72	93.64	-3265.40	582693.45	582281.58	32°36'01.837"N	104°03'53.321"W	2.46	
11142.00	92.200	271.100	8022.82	3330.65	94.87	-3329.32	582629.53	582282.81	32°36'01.850"N	104°03'54.068"W	1.09	
11205.00	92.700	270.800	8020.13	3393.59	95.91	-3392.26	582566.60	582283.85	32°36'01.862"N	104°03'54.804"W	0.93	
11268.00	90.300	270.700	8018.48	3456.56	96.73	-3455.22	582503.64	582284.68	32°36'01.872"N	104°03'55.540"W	3.81	
11332.00	89.900	269.200	8018.37	3520.54	96.68	-3519.22	582439.65	582284.62	32°36'01.873"N	104°03'56.288"W	2.43	
11395.00	90.400	268.300	8018.20	3583.47	95.30	-3582.21	582376.67	582283.25	32°36'01.861"N	104°03'57.024"W	1.63	
11458.00	91.000	266.800	8017.43	3646.32	92.61	-3645.14	582313.74	582280.55	32°36'01.836"N	104°03'57.760"W	2.56	
11522.00	90.900	267.000	8016.37	3710.11	89.15	-3709.04	582249.84	582277.09	32°36'01.803"N	104°03'58.507"W	0.35	
11585.00	90.200	266.300	8015.77	3772.88	85.47	-3771.93	582186.96	582273.41	32°36'01.768"N	104°03'59.242"W	1.57	
11649.00	90.000	265.000	8015.66	3836.56	80.62	-3835.74	582123.15	582268.56	32°36'01.722"N	104°03'59.988"W	2.06	
11712.00	88.600	263.700	8016.43	3899.07	74.41	-3898.43	582060.47	582262.36	32°36'01.662"N	104°04'00.721"W	3.03	
11776.00	88.300	263.000	8018.16	3962.41	67.00	-3961.97	581996.93	582254.95	32°36'01.590"N	104°04'01.464"W	1.19	
11839.00	88.500	263.000	8019.92	4024.70	59.33	-4024.48	581934.43	582247.27	32°36'01.516"N	104°04'02.195"W	0.32	
11903.00	88.900	263.100	8021.37	4088.00	51.59	-4087.99	581870.92	582239.53	32°36'01.441"N	104°04'02.937"W	0.64	
11966.00	88.900	263.200	8022.58	4150.33	44.08	-4150.53	581808.39	582232.02	32°36'01.368"N	104°04'03.668"W	0.16	
12029.00	90.300	264.100	8023.02	4212.75	37.11	-4213.14	581745.78	582225.05	32°36'01.301"N	104°04'04.401"W	2.64	
12092.00	90.800	264.500	8022.41	4275.26	30.85	-4275.83	581683.10	582218.80	32°36'01.240"N	104°04'05.133"W	1.02	
12155.00	91.100	265.700	8021.37	4337.86	25.47	-4338.59	581620.35	582213.42	32°36'01.189"N	104°04'05.867"W	1.96	
12186.00	91.100	266.000	8020.77	4368.71	23.23	-4369.50	581589.44	582211.18	32°36'01.167"N	104°04'06.229"W	0.97	
12218.00	91.900	265.500	8019.93	4400.54	20.86	-4401.40	581557.54	582208.81	32°36'01.145"N	104°04'06.602"W	2.95	
12250.00	93.000	264.200	8018.57	4432.30	17.99	-4433.24	581525.70	582205.94	32°36'01.117"N	104°04'06.974"W	5.32	
12282.00	93.400	264.800	8016.78	4464.02	14.92	-4465.04	581493.90	582202.87	32°36'01.087"N	104°04'07.346"W	2.25	

Actual Wellpath Report

No. 1H AWB_awp

Page 8 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Sharps) Sec 3, T20S, R29E	Wellbore	No. 1H AWB
Facility	Sharps 3 IL Federal No.1H		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12314.00	93.300	264.800	8014.91	4495.75	12.03	-4496.86	581462.09	582199.98	32°36'01.060"N	104°04'07.718"W	0.31	
12345.00	93.400	264.300	8013.10	4526.47	9.09	-4527.66	581431.29	582197.04	32°36'01.031"N	104°04'08.078"W	1.64	
12377.00	94.100	265.000	8011.01	4558.18	6.11	-4559.46	581399.50	582194.06	32°36'01.003"N	104°04'08.449"W	3.09	
12408.00	94.600	265.200	8008.65	4588.90	3.47	-4590.25	581368.70	582191.42	32°36'00.977"N	104°04'08.810"W	1.74	
12440.00	93.600	264.700	8006.37	4620.62	0.66	-4622.05	581336.91	582188.61	32°36'00.950"N	104°04'09.181"W	3.49	
12471.00	93.600	264.600	8004.42	4651.34	-2.22	-4652.85	581306.11	582185.73	32°36'00.922"N	104°04'09.541"W	0.32	
12503.00	93.600	264.100	8002.41	4683.03	-5.37	-4684.63	581274.33	582182.58	32°36'00.892"N	104°04'09.913"W	1.56	
12535.00	92.800	264.300	8000.62	4714.73	-8.59	-4716.42	581242.55	582179.36	32°36'00.861"N	104°04'10.285"W	2.58	
12566.00	93.000	264.400	7999.06	4745.45	-11.64	-4747.23	581211.74	582176.31	32°36'00.831"N	104°04'10.645"W	0.72	
12627.00	93.000	264.400	7995.86	4805.91	-17.59	-4807.85	581151.12	582170.36	32°36'00.774"N	104°04'11.354"W	0.00	Proj to bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.1H PBHL		8018.00	120.86	-4828.18	581130.80	582308.80	32°36'02.145"N	104°04'11.587"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 1H AWB Ref Wellpath: No. 1H AWB_awp

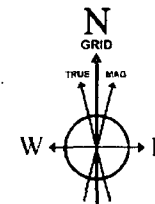
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	7386.00	Generic gyro - northseeking (Standard)	VES GYROS <100-7386>	No. 1H AWB
7386.00	12566.00	NaviTrak (Standard)	BHI MWD NAVITRAK <7476-xxxx>	No. 1H AWB
12566.00	12627.00	Blind Drilling (std)	Projection to bit	No. 1H AWB

Well Profile Data

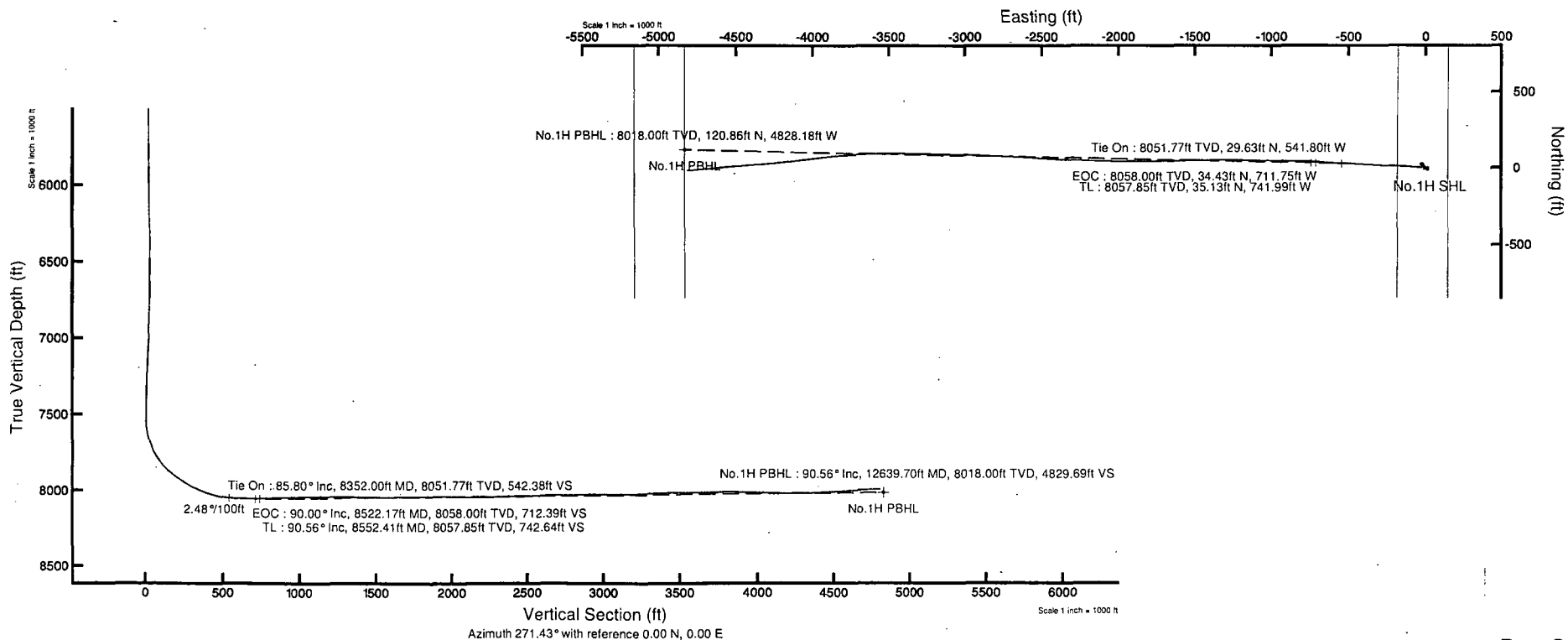
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	8352.00	85.800	271.800	8051.77	29.63	-541.80	0.00	542.38
EOC	8522.17	90.000	271.434	8058.00	34.43	-711.75	2.48	712.39
TL	8552.41	90.559	271.202	8057.85	35.13	-741.99	2.00	742.64
No.1H PBHL	12639.70	90.559	271.202	8018.00	120.86	-4828.18	0.00	4829.69

Plot reference wellpath is Rev-C.0

True vertical depths are referenced to Rig on No.1H (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.1H (KB)	North Reference: Grid north
Rig on No.1H (KB) to Mean Sea Level: 3337 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.1H SHL): -3317 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gilbjosl on 25/Mar/2013



BGGM (1945.0 to 2014.0) Dip: 60.37° Field: 48597.8 nT
Magnetic North is 7.74 degrees East of True North (at 20/Feb/2013)
Grid North is 0.15 degrees East of True North
To correct azimuth from True to Grid subtract 0.15 degrees
To correct azimuth from Magnetic to Grid add 7.59 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.59 = 97.59



Operating Company Mewbourne
Well Name & Number 3 IL FC #1H
Sales Ticket Number 5417185
Date 4/7/2013

Company Rep Russel Berryman
Field Sharps
BOT Service Rep Joseph Haynes
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	110000	6.276	6.151	LT&C	0.03826	8,413.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,408.05	12,400	10,680	
Bott Liner											
TVD		7,999.00		KOP		7,526.00		Open Hole	6.125	Casing Vol. (bbl)	313.0
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		3.625

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
Liner Top	1	10292414	JR Setting Sleeve_RH Profile	8178.21	4.00	5.750	4.000			313

Zone Length										
20	H409400008	JR Sleeve S3 Hyd Set Packer	8182.21	4.65	5.875	3.875		1670		
	H299710014	4-1/2-13.5 LTC Nipple	8186.86	8.13	4.500	4.000				
		7 Joints of 4-1/2-13.5 LTC Casing	8194.99	266.18	4.500	4.000				
19	H809870074	3.625 EX Frac Sleeve	8461.17	3.90	5.750		3.525	2286		317
		2 Joints of 4-1/2-13.5 LTC Casing	8465.07	74.02	4.500	3.920				
	H409360008	Baker Open Hole Packer	8539.09	3.89	5.820	3.875		2154		
18		3 Joints of 4-1/2-13.5 LTC Casing	8542.98	114.09	4.500	3.920				
	H809870073	3.500 EX Frac Sleeve	8657.07	3.90	5.750		3.400	2286		320
		2 Joints of 4-1/2-13.5 LTC Casing	8660.97	75.02	4.500	3.920				
17	H409360008	Baker Open Hole Packer	8735.99	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	8739.88	75.45	4.500	3.920				
	H809870072	3.375 EX Frac Sleeve	8815.33	3.90	5.750		3.275	2286		323
16		3 Joints of 4-1/2-13.5 LTC Casing	8819.23	114.12	4.500	3.920				
	H409360008	Baker Open Hole Packer	8933.35	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	8937.24	113.22	4.500	3.920				
15	H809870070	3.250 EX Frac Sleeve	9050.46	3.90	5.750		3.150	2286		326
		3 Joints of 4-1/2-13.5 LTC Casing	9054.36	112.35	4.500	3.920				
	H409360008	Baker Open Hole Packer	9166.71	3.89	5.820	3.875		2154		
14		4 Joints of 4-1/2-13.5 LTC Casing	9170.60	150.65	4.500	3.920				
	H809870069	3.125 EX Frac Sleeve	9321.25	3.90	5.750		3.025	2286		330
		2 Joints of 4-1/2-13.5 LTC Casing	9325.15	75.44	4.500	3.920				
13	H409360008	Baker Open Hole Packer	9400.59	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	9404.48	115.32	4.500	3.920				

Operating Company Mewbourne
Well Name & Number 3 IL FC #1H
Sales Ticket Number 5417185
Date 4/7/2013

Company Rep Russel Berryman
Field Sharps
BOT Service Rep Joseph Haynes
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	110000	6.276	6.151	LT&C	0.03826	8,413.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,408.05	12,400	10,680	
Bott Liner											
TVD	7,999.00		KOP		7,526.00		Open Hole		6.125	Casing Vol. (bbl)	313.0
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		3.625

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
15	H809870068	3.000 EX Frac Sleeve	9519.80	3.90	5.750		2.900	2286		333
		3 Joints of 4-1/2-13.5 LTC Casing	9523.70	111.63	4.500	3.920				
	H409360008	Baker Open Hole Packer	9635.33	3.89	5.820	3.875		2154		
14		2 Joints of 4-1/2-13.5 LTC Casing	9639.22	75.80	4.500	3.920				
	H809870067	2.875 EX Frac sleeve	9715.02	3.90	5.750		2.775	2286		336
		3 Joints of 4-1/2-13.5 LTC Casing	9718.92	111.63	4.500	3.920				
13	H409360008	Baker Open Hole Packer	9830.55	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9834.44	74.50	4.500	3.920				
	H809870066	2.750 EX Frac Sleeve	9908.94	3.90	5.750		2.650	2286		339
12		2 Joints of 4-1/2-13.5 LTC Casing	9912.84	74.09	4.500	3.920				
	H409360008	Baker Open Hole Packer	9986.93	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9990.82	75.48	4.500	3.920				
11	H809870065	2.625 EX Frac Sleeve	10066.30	3.90	5.750		2.525	2286		341
		4 Joints of 4-1/2-13.5 LTC Casing	10070.20	151.64	4.500	3.920				
	H409360008	Baker Open Hole Packer	10224.84	3.89	5.820	3.875		2154		
10		5 Joints of 4-1/2-13.5 LTC Casing	10225.73	189.83	4.500	3.920				
	H809870063	2.500 EX Frac Sleeve	10415.56	3.90	5.750		2.400	2286		346
		2 Joints of 4-1/2-13.5 LTC Casing	10419.46	75.43	4.500	3.920				
9	H409360008	Baker Open Hole Packer	10494.89	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10498.78	75.46	4.500	3.920				
	H809870054	2.375 EX Frac Sleeve	10574.24	3.90	5.750		2.275	2286		349
8		3 Joints of 4-1/2-13.5 LTC Casing	10578.14	113.73	4.500	3.920				
	H409360008	Baker Open Hole Packer	10691.67	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10695.76	76.72	4.500	3.920				
7	H809870047	2.250 EX Frac Sleeve	10772.48	3.90	5.750		2.150	2286		352
		3 Joints of 4-1/2-13.5 LTC Casing	10776.38	112.30	4.500	3.920				
	H409360008	Baker Open Hole Packer	10888.68	3.89	5.820	3.875		2154		

Operating Company Mewbourne
Well Name & Number 3 IL FC #1H
Sales Ticket Number 5417185
Date 4/7/2013

Company Rep Russel Berryman
Field Sharps
BOT Service Rep Joseph Haynes
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	LT&C	0.03826	8,413.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,408.05	12,400	10,680
Bott Liner										
TVD	7,999.00		KOP	7,526.00		Open Hole	6.125		Casing Vol. (bbl)	313.0
Carry Fluid Weight (ppg)	8.6		Propan Content (ppa)			Max Drill Out Size	3.625			

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
8		2 Joints of 4-1/2-13.5 LTC Casing	10892.57	75.82	4.500	3.920				
	H809870042	2.125 EX Frac Sleeve	10968.39	3.90	5.750		2.025	2286		355
		3 Joints of 4-1/2-13.5 LTC Casing	10972.29	114.38	4.500	3.920				
	H409360008	Baker Open Hole Packer	11086.67	3.89	5.820	3.875		2154		
7		2 Joints of 4-1/2-13.5 LTC Casing	11090.56	76.54	4.500	3.920				
	H809870088	2.000 EX Frac Sleeve	11167.10	3.90	5.750		1.900	2286		358
		4 Joints of 4-1/2-13.5 LTC Casing	11171.00	151.26	4.500	3.920				
	H409360008	Baker Open Hole Packer	11322.26	3.89	5.820	3.875		2154		
6		3 Joints of 4-1/2-13.5 LTC Casing	11326.15	114.76	4.500	3.920				
	H809870087	1.875 EX Frac Sleeve	11440.91	3.90	5.750		1.775	2286		359
		3 Joints of 4-1/2-13.5 LTC Casing	11444.81	114.85	4.500	3.920				
	H409360008	Baker Open Hole Packer	11559.66	3.89	5.820	3.875		2154		
5		3 Joints of 4-1/2-13.5 LTC Casing	11563.55	112.78	4.500	3.920				
	H809870086	1.750 EX Frac Sleeve	11676.33	3.90	5.750		1.650	2286		365
		2 Joints of 4-1/2-13.5 LTC Casing	11680.23	75.45	4.500	3.920				
	H409360008	Baker Open Hole Packer	11755.68	3.89	5.820	3.875		2154		
4		3 Joints of 4-1/2-13.5 LTC Casing	11759.57	112.33	4.500	3.920				
	H809870085	1.625 EX Frac Sleeve	11871.90	3.90	5.750		1.525	2286		368
		2 Joints of 4-1/2-13.5 LTC Casing	11875.80	74.51	4.500	3.920				
	H409360008	Baker Open Hole Packer	11950.31	3.89	5.820	3.875		2154		
3		2 Joints of 4-1/2-13.5 LTC Casing	11954.20	75.68	4.500	3.920				
	H809160007	1.500 DB Frac Sleeve	12029.88	3.90	5.750		1.400	2286		370
		4 Joints of 4-1/2-13.5 LTC Casing	12033.78	152.86	4.500	3.920				
	H409360008	Baker Open Hole Packer	12136.64	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	12190.53	112.75	4.500	3.920				
	H409360008	Baker Open Hole Packer	12303.28	3.89	5.750			2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12307.17	75.46	4.500	3.920				

Company Rep	Russel Berryman
Field	Sharps
BOT Service Rep	Joseph Haynes
District Location	Odessa, Texas, USA

[illegible]