

Actual Wellpath Report

No.1H AWP

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30-015-38983

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Crow Flats)	Wellbore	No.1H AWP
Facility	Crow Flats 26 Fed No.1H		

WELLPATH DATA (214 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
0.00	0.000	101.040	0.00	0.00	0.00	0.00	559687.72	686679.00	32°53'15.396"N	104°08'20.014"W	0.00	
100.00	1.140	101.040	99.99	-0.98	-0.19	0.98	559688.70	686678.81	32°53'15.394"N	104°08'20.003"W	1.14	
200.00	1.040	89.650	199.98	-2.87	-0.38	2.86	559690.58	686678.62	32°53'15.392"N	104°08'19.981"W	0.24	
300.00	0.800	78.750	299.96	-4.46	-0.23	4.45	559692.17	686678.77	32°53'15.393"N	104°08'19.962"W	0.30	
400.00	1.100	65.780	399.95	-6.01	0.30	6.01	559693.73	686679.30	32°53'15.399"N	104°08'19.944"W	0.37	
500.00	1.100	73.440	499.93	-7.79	0.96	7.81	559695.53	686679.96	32°53'15.405"N	104°08'19.923"W	0.15	
600.00	0.600	81.500	599.92	-9.22	1.31	9.25	559696.97	686680.31	32°53'15.409"N	104°08'19.906"W	0.51	
700.00	0.530	77.890	699.91	-10.19	1.49	10.22	559697.94	686680.49	32°53'15.410"N	104°08'19.894"W	0.08	
800.00	0.530	55.440	799.91	-11.01	1.85	11.05	559698.77	686680.85	32°53'15.414"N	104°08'19.885"W	0.21	
900.00	0.250	34.560	899.91	-11.51	2.29	11.55	559699.27	686681.29	32°53'15.418"N	104°08'19.879"W	0.31	
1000.00	0.090	353.400	999.91	-11.62	2.55	11.67	559699.39	686681.55	32°53'15.421"N	104°08'19.877"W	0.19	
1100.00	0.370	330.980	1099.91	-11.45	2.91	11.50	559699.22	686681.91	32°53'15.424"N	104°08'19.879"W	0.29	
1200.00	0.660	318.580	1199.90	-10.90	3.62	10.97	559698.68	686682.62	32°53'15.432"N	104°08'19.885"W	0.31	
1300.00	0.800	295.910	1299.89	-9.88	4.36	9.96	559697.68	686683.36	32°53'15.439"N	104°08'19.897"W	0.32	
1400.00	0.690	314.600	1399.89	-8.81	5.09	8.90	559696.62	686684.09	32°53'15.446"N	104°08'19.910"W	0.27	
1500.00	1.090	305.890	1499.87	-7.59	6.07	7.70	559695.42	686685.07	32°53'15.456"N	104°08'19.924"W	0.42	
1600.00	0.880	308.440	1599.86	-6.20	7.10	6.33	559694.05	686686.10	32°53'15.466"N	104°08'19.940"W	0.21	
1700.00	0.780	305.830	1699.85	-5.03	7.98	5.17	559692.89	686686.98	32°53'15.475"N	104°08'19.953"W	0.11	
1800.00	0.990	302.660	1799.84	-3.74	8.84	3.90	559691.62	686687.84	32°53'15.483"N	104°08'19.968"W	0.22	
1900.00	0.780	301.410	1899.82	-2.42	9.66	2.59	559690.31	686688.66	32°53'15.491"N	104°08'19.984"W	0.21	
2000.00	1.010	295.820	1999.81	-1.03	10.40	1.21	559688.93	686689.40	32°53'15.499"N	104°08'20.000"W	0.25	
2100.00	1.350	290.890	2099.79	0.88	11.21	-0.68	559687.04	686690.21	32°53'15.507"N	104°08'20.022"W	0.35	
2200.00	1.450	287.620	2199.76	3.20	12.01	-2.99	559684.73	686691.01	32°53'15.515"N	104°08'20.049"W	0.13	
2300.00	1.260	296.010	2299.73	5.41	12.87	-5.18	559682.54	686691.87	32°53'15.523"N	104°08'20.075"W	0.27	
2400.00	1.430	296.450	2399.71	7.53	13.91	-7.29	559680.43	686692.91	32°53'15.534"N	104°08'20.099"W	0.17	
2500.00	1.080	304.550	2499.68	9.44	15.00	-9.18	559678.54	686694.00	32°53'15.544"N	104°08'20.121"W	0.39	
2600.00	1.230	291.420	2599.66	11.23	15.93	-10.96	559676.77	686694.93	32°53'15.554"N	104°08'20.142"W	0.30	
2700.00	0.920	299.670	2699.64	12.94	16.72	-12.65	559675.07	686695.72	32°53'15.562"N	104°08'20.162"W	0.35	
2800.00	0.940	303.200	2799.63	14.34	17.57	-14.04	559673.69	686696.56	32°53'15.570"N	104°08'20.178"W	0.06	
2900.00	1.020	297.250	2899.62	15.83	18.42	-15.51	559672.21	686697.42	32°53'15.578"N	104°08'20.196"W	0.13	
3000.00	0.830	291.590	2999.60	17.31	19.10	-16.98	559670.74	686698.09	32°53'15.585"N	104°08'20.213"W	0.21	
3100.00	0.880	276.260	3099.59	18.75	19.45	-18.42	559669.31	686698.44	32°53'15.589"N	104°08'20.230"W	0.23	
3200.00	0.790	289.100	3199.58	20.17	19.76	-19.83	559667.89	686698.75	32°53'15.592"N	104°08'20.246"W	0.21	
3300.00	0.900	317.280	3299.57	21.37	20.56	-21.01	559666.71	686699.56	32°53'15.600"N	104°08'20.260"W	0.43	
3400.00	0.900	308.550	3399.56	22.54	21.62	-22.16	559665.56	686700.62	32°53'15.610"N	104°08'20.274"W	0.14	
3500.00	1.060	296.960	3499.54	23.99	22.53	-23.60	559664.12	686701.53	32°53'15.619"N	104°08'20.290"W	0.25	
3600.00	1.140	296.890	3599.53	25.72	23.40	-25.31	559662.41	686702.40	32°53'15.628"N	104°08'20.310"W	0.08	
3700.00	1.130	300.150	3699.51	27.47	24.35	-27.05	559660.67	686703.35	32°53'15.637"N	104°08'20.331"W	0.07	
3800.00	0.950	301.700	3799.49	29.05	25.28	-28.61	559659.11	686704.28	32°53'15.647"N	104°08'20.349"W	0.18	
3900.00	0.850	291.990	3899.48	30.45	25.99	-30.00	559657.72	686704.99	32°53'15.654"N	104°08'20.365"W	0.18	
4000.00	0.950	296.240	3999.46	31.90	26.64	-31.43	559656.29	686705.63	32°53'15.660"N	104°08'20.382"W	0.12	
4100.00	1.030	285.500	4099.45	33.52	27.24	-33.04	559654.68	686706.24	32°53'15.666"N	104°08'20.401"W	0.20	
4200.00	1.070	279.540	4199.43	35.31	27.64	-34.83	559652.89	686706.64	32°53'15.670"N	104°08'20.422"W	0.12	
4300.00	1.020	297.610	4299.42	37.03	28.21	-36.54	559651.18	686707.20	32°53'15.676"N	104°08'20.442"W	0.33	
4400.00	1.000	290.540	4399.40	38.65	28.92	-38.15	559649.58	686707.92	32°53'15.683"N	104°08'20.461"W	0.13	

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Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Crow Flats)	Wellbore	No.1H AWB
Facility	Crow Flats 26 Fed No.1H		

WELLPATH DATA (214 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
4500.00	0.860	279.030	4499.39	40.21	29.35	-39.70	559648.02	686708.35	32°53'15.687"N	104°08'20.479"W	0.23	
4600.00	1.110	296.460	4599.37	41.83	29.90	-41.31	559646.41	686708.89	32°53'15.692"N	104°08'20.498"W	0.39	
4700.00	1.180	318.690	4699.35	43.40	31.10	-42.86	559644.86	686710.10	32°53'15.704"N	104°08'20.516"W	0.45	
4800.00	1.190	298.960	4799.33	45.01	32.38	-44.45	559643.28	686711.38	32°53'15.717"N	104°08'20.535"W	0.41	
4900.00	1.450	291.190	4899.31	47.03	33.31	-46.45	559641.27	686712.30	32°53'15.726"N	104°08'20.558"W	0.23	
5000.00	1.260	291.700	4999.28	49.16	34.14	-48.57	559639.15	686713.14	32°53'15.735"N	104°08'20.583"W	0.09	
5100.00	1.230	291.520	5099.26	51.20	34.94	-50.59	559637.13	686713.94	32°53'15.743"N	104°08'20.607"W	0.03	
5200.00	1.360	287.450	5199.23	53.34	35.69	-52.72	559635.00	686714.69	32°53'15.750"N	104°08'20.632"W	0.16	
5300.00	1.140	298.920	5299.21	55.36	36.53	-54.73	559633.00	686715.52	32°53'15.758"N	104°08'20.655"W	0.33	
5400.00	0.960	289.250	5399.19	57.03	37.28	-56.39	559631.34	686716.28	32°53'15.766"N	104°08'20.675"W	0.25	
5500.00	0.680	273.510	5499.18	58.42	37.60	-57.77	559629.95	686716.59	32°53'15.769"N	104°08'20.691"W	0.36	
5600.00	0.950	264.490	5599.17	59.84	37.55	-59.19	559628.54	686716.55	32°53'15.769"N	104°08'20.707"W	0.30	
5700.00	0.940	278.450	5699.16	61.48	37.59	-60.83	559626.90	686716.59	32°53'15.769"N	104°08'20.727"W	0.23	
5800.00	0.770	279.580	5799.15	62.95	37.83	-62.30	559625.43	686716.82	32°53'15.771"N	104°08'20.744"W	0.17	
5900.00	0.640	287.170	5899.14	64.15	38.10	-63.50	559624.23	686717.10	32°53'15.774"N	104°08'20.758"W	0.16	
6000.00	0.700	284.410	5999.13	65.28	38.42	-64.62	559623.10	686717.42	32°53'15.777"N	104°08'20.771"W	0.07	
6060.00	0.450	288.450	6059.13	65.87	38.59	-65.20	559622.53	686717.58	32°53'15.779"N	104°08'20.778"W	0.42	
6151.00	0.300	109.700	6150.13	65.98	38.62	-65.31	559622.41	686717.61	32°53'15.779"N	104°08'20.779"W	0.82	
6182.00	0.800	277.500	6181.13	66.12	38.62	-65.45	559622.27	686717.62	32°53'15.779"N	104°08'20.781"W	3.53	
6214.00	3.500	280.900	6213.10	67.30	38.83	-66.63	559621.09	686717.83	32°53'15.781"N	104°08'20.795"W	8.44	
6246.00	7.400	283.000	6244.95	70.28	39.48	-69.60	559618.12	686718.48	32°53'15.788"N	104°08'20.829"W	12.20	
6278.00	11.400	281.500	6276.52	75.41	40.58	-74.71	559613.02	686719.57	32°53'15.799"N	104°08'20.889"W	12.52	
6310.00	16.000	280.600	6307.60	82.87	42.02	-82.15	559605.58	686721.01	32°53'15.813"N	104°08'20.977"W	14.39	
6341.00	20.300	280.500	6337.05	92.39	43.79	-91.64	559596.09	686722.78	32°53'15.831"N	104°08'21.088"W	13.87	
6373.00	23.900	280.400	6366.69	104.27	45.97	-103.48	559584.25	686724.96	32°53'15.853"N	104°08'21.227"W	11.25	
6405.00	26.700	279.300	6395.62	117.78	48.30	-116.95	559570.78	686727.30	32°53'15.876"N	104°08'21.384"W	8.87	
6436.00	29.700	278.300	6422.94	132.29	50.53	-131.43	559556.30	686729.53	32°53'15.898"N	104°08'21.554"W	9.80	
6468.00	32.200	277.400	6450.38	148.63	52.78	-147.73	559540.00	686731.77	32°53'15.921"N	104°08'21.745"W	7.95	
6500.00	34.800	275.900	6477.06	166.21	54.81	-165.27	559522.46	686733.81	32°53'15.941"N	104°08'21.951"W	8.53	
6532.00	37.100	274.600	6502.97	184.94	56.53	-183.98	559503.76	686735.52	32°53'15.959"N	104°08'22.170"W	7.57	
6563.00	39.800	273.500	6527.24	204.19	57.88	-203.20	559484.54	686736.88	32°53'15.972"N	104°08'22.396"W	8.98	
6595.00	42.600	273.100	6551.32	225.24	59.09	-224.24	559463.50	686738.09	32°53'15.985"N	104°08'22.642"W	8.79	
6627.00	45.300	272.700	6574.35	247.44	60.22	-246.42	559441.32	686739.21	32°53'15.996"N	104°08'22.902"W	8.48	
6659.00	47.600	271.100	6596.40	270.63	60.98	-269.60	559418.14	686739.97	32°53'16.004"N	104°08'23.174"W	8.05	
6690.00	50.300	269.900	6616.76	294.00	61.18	-292.97	559394.77	686740.17	32°53'16.007"N	104°08'23.448"W	9.19	
6722.00	53.000	269.000	6636.61	319.08	60.93	-318.07	559369.68	686739.93	32°53'16.005"N	104°08'23.743"W	8.72	
6754.00	55.900	268.500	6655.21	345.10	60.36	-344.09	559343.66	686739.36	32°53'15.999"N	104°08'24.048"W	9.15	
6786.00	58.900	268.400	6672.45	372.03	59.63	-371.04	559316.72	686738.63	32°53'15.993"N	104°08'24.364"W	9.38	
6817.00	62.400	270.400	6687.64	399.03	59.36	-398.05	559289.70	686738.35	32°53'15.990"N	104°08'24.681"W	12.61	
6849.00	66.500	270.900	6701.44	427.89	59.69	-426.94	559260.84	686738.68	32°53'15.994"N	104°08'25.019"W	12.89	
6881.00	71.400	270.900	6712.93	457.75	60.16	-456.76	559231.00	686739.15	32°53'15.999"N	104°08'25.369"W	15.31	
6913.00	76.300	270.900	6721.83	488.48	60.64	-487.49	559200.27	686739.64	32°53'16.005"N	104°08'25.729"W	15.31	
6945.00	80.300	270.700	6728.32	519.81	61.08	-518.81	559168.95	686740.07	32°53'16.010"N	104°08'26.097"W	12.51	
6976.00	83.100	270.500	6732.79	550.48	61.40	-549.49	559138.28	686740.39	32°53'16.013"N	104°08'26.456"W	9.05	
7006.00	85.200	269.400	6735.85	580.31	61.57	-579.33	559108.44	686740.37	32°53'16.014"N	104°08'26.806"W	7.89	

Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Crow Flats)	Wellbore	No.1H AWB
Facility	Crow Flats 26 Fed No.1H		

WELLPATH DATA (214 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
7077.00	88.700	273.500	6739.63	651.18	63.17	-650.18	559037.60	686742.16	32°53'16.033"N	104°08'27.637"W	7.59	
7093.00	88.700	270.500	6739.99	667.18	63.73	-666.16	559021.62	686742.72	32°53'16.039"N	104°08'27.824"W	18.75	
7124.00	88.800	269.400	6740.67	698.16	63.70	-697.15	558990.63	686742.69	32°53'16.039"N	104°08'28.188"W	3.56	
7156.00	90.400	268.400	6740.89	730.14	63.09	-729.15	558958.64	686742.08	32°53'16.033"N	104°08'28.563"W	5.90	
7188.00	91.900	267.800	6740.25	762.09	62.03	-761.12	558926.67	686741.02	32°53'16.023"N	104°08'28.938"W	5.05	
7221.00	94.000	267.500	6738.55	794.99	60.67	-794.05	558893.74	686739.67	32°53'16.011"N	104°08'29.324"W	6.43	
7253.00	94.000	267.600	6736.32	826.85	59.31	-825.94	558861.85	686738.30	32°53'15.998"N	104°08'29.698"W	0.31	
7285.00	93.900	268.600	6734.12	858.73	58.25	-857.85	558829.95	686737.25	32°53'15.988"N	104°08'30.072"W	3.13	
7316.00	93.200	270.100	6732.20	889.66	57.90	-888.78	558799.02	686736.90	32°53'15.985"N	104°08'30.435"W	5.33	
7348.00	92.400	271.500	6730.63	921.62	58.35	-920.74	558767.06	686737.34	32°53'15.990"N	104°08'30.810"W	5.03	
7380.00	91.100	272.300	6729.66	953.60	59.41	-952.71	558735.10	686738.40	32°53'16.001"N	104°08'31.185"W	4.77	
7412.00	90.900	272.600	6729.10	985.59	60.78	-984.67	558703.13	686739.77	32°53'16.015"N	104°08'31.559"W	1.13	
7443.00	90.800	273.000	6728.64	1016.57	62.29	-1015.63	558672.18	686741.28	32°53'16.031"N	104°08'31.922"W	1.33	
7475.00	90.700	273.700	6728.22	1048.54	64.16	-1047.58	558640.24	686743.15	32°53'16.050"N	104°08'32.297"W	2.21	
7507.00	90.200	273.800	6727.97	1080.50	66.25	-1079.51	558608.31	686745.25	32°53'16.071"N	104°08'32.671"W	1.59	
7538.00	90.500	274.700	6727.78	1111.45	68.55	-1110.42	558577.40	686747.54	32°53'16.094"N	104°08'33.034"W	3.06	
7570.00	90.500	275.100	6727.50	1143.37	71.28	-1142.30	558545.52	686750.28	32°53'16.122"N	104°08'33.408"W	1.25	
7602.00	90.700	273.300	6727.16	1175.32	73.63	-1174.21	558513.61	686752.62	32°53'16.146"N	104°08'33.782"W	5.66	
7634.00	90.500	272.300	6726.83	1207.30	75.19	-1206.17	558481.66	686754.18	32°53'16.162"N	104°08'34.157"W	3.19	
7666.00	90.300	272.400	6726.61	1239.29	76.50	-1238.14	558449.69	686755.49	32°53'16.175"N	104°08'34.531"W	0.70	
7698.00	91.000	271.800	6726.24	1271.29	77.67	-1270.12	558417.71	686756.67	32°53'16.187"N	104°08'34.906"W	2.88	
7730.00	92.300	271.000	6725.32	1303.27	78.46	-1302.10	558385.74	686757.45	32°53'16.196"N	104°08'35.281"W	4.77	
7761.00	92.500	270.700	6724.02	1334.24	78.91	-1333.07	558354.77	686757.91	32°53'16.201"N	104°08'35.644"W	1.16	
7793.00	92.200	270.800	6722.71	1366.22	79.33	-1365.04	558322.81	686758.33	32°53'16.205"N	104°08'36.019"W	0.99	
7825.00	92.000	270.800	6721.54	1398.19	79.78	-1397.01	558290.83	686758.77	32°53'16.210"N	104°08'36.394"W	0.62	
7857.00	91.700	269.800	6720.51	1430.18	79.95	-1428.99	558258.85	686758.94	32°53'16.213"N	104°08'36.769"W	3.26	
7889.00	92.400	267.900	6719.36	1462.13	79.31	-1460.97	558226.88	686758.30	32°53'16.207"N	104°08'37.144"W	6.32	
7921.00	92.800	267.800	6717.91	1494.05	78.11	-1492.91	558194.94	686757.10	32°53'16.196"N	104°08'37.519"W	1.29	
7953.00	92.700	267.800	6716.37	1525.96	76.88	-1524.85	558163.01	686755.87	32°53'16.184"N	104°08'37.893"W	0.31	
7985.00	92.400	268.200	6714.95	1557.89	75.76	-1556.80	558131.06	686754.76	32°53'16.174"N	104°08'38.268"W	1.56	
8017.00	91.200	268.500	6713.94	1589.84	74.84	-1588.77	558099.09	686753.84	32°53'16.165"N	104°08'38.643"W	3.87	
8048.00	90.200	268.200	6713.57	1620.80	73.95	-1619.75	558068.11	686752.94	32°53'16.157"N	104°08'39.006"W	3.37	
8080.00	90.000	268.500	6713.51	1652.77	73.03	-1651.74	558036.13	686752.02	32°53'16.148"N	104°08'39.381"W	1.13	
8112.00	90.200	269.100	6713.45	1684.74	72.36	-1683.73	558004.14	686751.35	32°53'16.142"N	104°08'39.757"W	1.98	
8144.00	91.300	269.400	6713.04	1716.72	71.94	-1715.73	557972.15	686750.93	32°53'16.139"N	104°08'40.132"W	3.56	
8176.00	91.500	269.900	6712.25	1748.70	71.74	-1747.72	557940.16	686750.74	32°53'16.137"N	104°08'40.507"W	1.68	
8207.00	91.500	270.500	6711.44	1779.69	71.85	-1778.71	557909.17	686750.85	32°53'16.139"N	104°08'40.870"W	1.93	
8239.00	91.500	270.900	6710.60	1811.68	72.24	-1810.69	557877.19	686751.24	32°53'16.143"N	104°08'41.245"W	1.25	
8271.00	90.500	270.300	6710.05	1843.67	72.58	-1842.68	557845.20	686751.57	32°53'16.147"N	104°08'41.621"W	3.64	
8303.00	90.500	270.300	6709.77	1875.67	72.75	-1874.68	557813.20	686751.74	32°53'16.149"N	104°08'41.996"W	0.00	
8335.00	90.500	270.500	6709.49	1907.67	72.97	-1906.68	557781.21	686751.96	32°53'16.152"N	104°08'42.371"W	0.62	
8367.00	90.600	270.700	6709.18	1939.66	73.30	-1938.68	557749.21	686752.30	32°53'16.156"N	104°08'42.746"W	0.70	
8398.00	90.300	270.800	6708.94	1970.66	73.71	-1969.67	557718.22	686752.70	32°53'16.161"N	104°08'43.110"W	1.02	
8430.00	90.300	271.000	6708.77	2002.66	74.21	-2001.67	557686.23	686753.21	32°53'16.166"N	104°08'43.485"W	0.62	
8462.00	90.500	271.400	6708.55	2034.66	74.88	-2033.66	557654.24	686753.88	32°53'16.173"N	104°08'43.860"W	1.40	

Actual Wellpath Report

Mewbourne Oil Company

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Crow Flats)	Wellbore	No.1H AWP
Facility	Crow Flats 26 Fed No.1H		

WELLPATH DATA (214 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
8494.00	90.600	271.800	6708.24	2066.66	75.78	-2065.65	557622.26	686754.77	32°53'16.183"N	104°08'44.235"W	1.29	
8526.00	90.700	272.300	6707.88	2098.65	76.92	-2097.62	557590.28	686755.91	32°53'16.195"N	104°08'44.610"W	1.59	
8558.00	90.700	271.300	6707.48	2130.64	77.93	-2129.61	557558.30	686756.92	32°53'16.205"N	104°08'44.985"W	3.12	
8590.00	90.200	269.800	6707.23	2162.64	78.23	-2161.60	557526.31	686757.23	32°53'16.209"N	104°08'45.360"W	4.94	
8621.00	90.100	269.700	6707.15	2193.63	78.10	-2192.60	557495.31	686757.09	32°53'16.208"N	104°08'45.724"W	0.46	
8653.00	90.100	269.800	6707.10	2225.63	77.96	-2224.60	557463.32	686756.95	32°53'16.207"N	104°08'46.099"W	0.31	
8685.00	91.000	269.700	6706.79	2257.62	77.82	-2256.60	557431.32	686756.81	32°53'16.206"N	104°08'46.474"W	2.83	
8715.00	91.200	270.000	6706.21	2287.61	77.74	-2286.59	557401.33	686756.73	32°53'16.206"N	104°08'46.826"W	1.20	
8747.00	91.200	270.300	6705.54	2319.59	77.82	-2318.59	557369.34	686756.82	32°53'16.207"N	104°08'47.201"W	0.94	
8779.00	91.800	269.800	6704.71	2351.58	77.85	-2350.58	557337.35	686756.84	32°53'16.208"N	104°08'47.576"W	2.44	
8810.00	91.700	269.800	6703.76	2382.56	77.74	-2381.56	557306.37	686756.74	32°53'16.208"N	104°08'47.940"W	0.32	
8842.00	91.500	269.600	6702.87	2414.54	77.58	-2413.55	557274.39	686756.57	32°53'16.207"N	104°08'48.315"W	0.88	
8874.00	91.600	270.300	6702.00	2446.52	77.55	-2445.54	557242.40	686756.54	32°53'16.207"N	104°08'48.690"W	2.21	
8906.00	91.800	271.000	6701.05	2478.50	77.91	-2477.52	557210.42	686756.90	32°53'16.211"N	104°08'49.065"W	2.27	
8938.00	91.600	271.400	6700.10	2510.49	78.58	-2509.50	557178.44	686757.57	32°53'16.218"N	104°08'49.440"W	1.40	
8970.00	92.000	270.800	6699.10	2542.47	79.19	-2541.48	557146.47	686758.19	32°53'16.225"N	104°08'49.815"W	2.25	
9001.00	92.000	270.700	6698.01	2573.46	79.60	-2572.46	557115.49	686758.59	32°53'16.229"N	104°08'50.178"W	0.32	
9033.00	91.900	270.600	6696.93	2605.44	79.96	-2604.43	557083.52	686758.96	32°53'16.234"N	104°08'50.553"W	0.44	
9065.00	91.700	270.900	6695.92	2637.42	80.38	-2636.42	557051.54	686759.37	32°53'16.238"N	104°08'50.928"W	1.13	
9097.00	91.700	271.200	6694.97	2669.41	80.97	-2668.40	557019.56	686759.96	32°53'16.245"N	104°08'51.303"W	0.94	
9129.00	91.600	271.600	6694.05	2701.39	81.75	-2700.37	556987.59	686760.74	32°53'16.253"N	104°08'51.678"W	1.29	
9160.00	91.500	270.500	6693.21	2732.38	82.32	-2731.36	556956.61	686761.31	32°53'16.259"N	104°08'52.041"W	3.56	
9192.00	91.100	268.600	6692.48	2764.36	82.07	-2763.35	556924.62	686761.06	32°53'16.257"N	104°08'52.416"W	6.07	
9224.00	90.800	268.200	6691.95	2796.32	81.17	-2795.33	556892.64	686760.17	32°53'16.249"N	104°08'52.792"W	1.56	
9256.00	90.500	268.200	6691.59	2828.28	80.17	-2827.31	556860.66	686759.16	32°53'16.239"N	104°08'53.167"W	0.94	
9287.00	90.200	268.200	6691.40	2859.24	79.19	-2858.30	556829.68	686758.19	32°53'16.230"N	104°08'53.530"W	0.97	
9319.00	90.000	268.400	6691.35	2891.21	78.24	-2890.28	556797.70	686757.24	32°53'16.221"N	104°08'53.905"W	0.88	
9351.00	90.300	268.800	6691.26	2923.18	77.46	-2922.27	556765.71	686756.46	32°53'16.214"N	104°08'54.280"W	1.56	
9383.00	90.200	269.000	6691.12	2955.16	76.85	-2954.27	556733.72	686755.84	32°53'16.209"N	104°08'54.655"W	0.70	
9415.00	90.800	269.400	6690.84	2987.14	76.40	-2986.26	556701.72	686755.39	32°53'16.205"N	104°08'55.031"W	2.25	
9447.00	91.800	269.500	6690.12	3019.12	76.09	-3018.25	556669.74	686755.09	32°53'16.202"N	104°08'55.406"W	3.14	
9479.00	91.800	269.600	6689.11	3051.09	75.84	-3050.23	556637.76	686754.84	32°53'16.201"N	104°08'55.781"W	0.31	
9511.00	91.500	269.200	6688.19	3083.07	75.51	-3082.22	556605.78	686754.50	32°53'16.198"N	104°08'56.156"W	1.56	
9543.00	91.100	269.300	6687.46	3115.05	75.09	-3114.21	556573.79	686754.08	32°53'16.194"N	104°08'56.531"W	1.29	
9575.00	91.300	269.700	6686.79	3147.03	74.81	-3146.20	556541.80	686753.80	32°53'16.192"N	104°08'56.906"W	1.40	
9607.00	92.000	269.900	6685.87	3179.01	74.70	-3178.19	556509.82	686753.69	32°53'16.191"N	104°08'57.281"W	2.27	
9639.00	92.100	269.900	6684.73	3210.98	74.64	-3210.17	556477.84	686753.64	32°53'16.191"N	104°08'57.656"W	0.31	
9670.00	92.200	270.200	6683.57	3241.95	74.67	-3241.14	556446.86	686753.66	32°53'16.192"N	104°08'58.019"W	1.02	
9702.00	92.200	270.300	6682.34	3273.93	74.81	-3273.12	556414.89	686753.80	32°53'16.194"N	104°08'58.394"W	0.31	
9734.00	90.800	270.700	6681.50	3305.91	75.09	-3305.11	556382.91	686754.08	32°53'16.197"N	104°08'58.769"W	4.55	
9766.00	89.100	270.500	6681.53	3337.91	75.42	-3337.10	556350.91	686754.42	32°53'16.201"N	104°08'59.145"W	5.35	
9797.00	88.900	270.600	6682.07	3368.91	75.72	-3368.10	556319.92	686754.71	32°53'16.205"N	104°08'59.508"W	0.72	
9829.00	88.700	270.800	6682.74	3400.90	76.11	-3400.09	556287.93	686755.11	32°53'16.209"N	104°08'59.883"W	0.88	
9861.00	89.800	270.400	6683.16	3432.90	76.45	-3432.08	556255.94	686755.44	32°53'16.213"N	104°09'00.258"W	3.66	
9893.00	90.500	271.000	6683.07	3464.89	76.84	-3464.08	556223.95	686755.83	32°53'16.217"N	104°09'00.634"W	2.88	

Actual Wellpath Report

Mewbourne Oil Company

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Crow Flats)	Wellbore	No.1H AWB
Facility	Crow Flats 26 Fed No.1H		

WELLPATH DATA (214 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
9924.00	90.400	270.500	6682.83	3495.89	77.24	-3495.08	556192.95	686756.24	32°53'16.222"N	104°09'00.997"W	1.64	
9956.00	90.100	270.100	6682.69	3527.89	77.41	-3527.08	556160.96	686756.40	32°53'16.224"N	104°09'01.372"W	1.56	
9988.00	90.700	270.300	6682.47	3559.89	77.52	-3559.07	556128.96	686756.52	32°53'16.226"N	104°09'01.748"W	1.98	
10020.00	90.700	270.300	6682.08	3591.88	77.69	-3591.07	556096.97	686756.68	32°53'16.228"N	104°09'02.123"W	0.00	
10052.00	91.100	269.800	6681.57	3623.87	77.72	-3623.07	556064.97	686756.71	32°53'16.229"N	104°09'02.498"W	2.00	
10084.00	91.000	270.100	6680.99	3655.86	77.69	-3655.06	556032.98	686756.68	32°53'16.229"N	104°09'02.873"W	0.99	
10116.00	91.000	270.600	6680.43	3687.85	77.89	-3687.06	556000.99	686756.88	32°53'16.232"N	104°09'03.248"W	1.56	
10148.00	92.000	270.800	6679.59	3719.84	78.28	-3719.04	555969.01	686757.27	32°53'16.236"N	104°09'03.623"W	3.19	
10180.00	92.100	271.000	6678.45	3751.82	78.78	-3751.02	555937.04	686757.77	32°53'16.242"N	104°09'03.998"W	0.70	
10212.00	92.000	270.900	6677.30	3783.80	79.31	-3782.99	555905.06	686758.30	32°53'16.247"N	104°09'04.373"W	0.44	
10243.00	91.800	270.800	6676.27	3814.78	79.77	-3813.97	555874.09	686758.76	32°53'16.252"N	104°09'04.737"W	0.72	
10275.00	91.400	270.500	6675.38	3846.77	80.13	-3845.96	555842.10	686759.12	32°53'16.257"N	104°09'05.112"W	1.56	
10307.00	91.100	270.300	6674.68	3878.76	80.36	-3877.95	555810.11	686759.35	32°53'16.259"N	104°09'05.487"W	1.13	
10339.00	90.800	270.300	6674.15	3910.76	80.52	-3909.94	555778.12	686759.52	32°53'16.262"N	104°09'05.862"W	0.94	
10371.00	91.400	270.200	6673.54	3942.75	80.66	-3941.94	555746.13	686759.66	32°53'16.263"N	104°09'06.237"W	1.90	
10402.00	91.600	270.500	6672.73	3973.73	80.85	-3972.93	555715.15	686759.84	32°53'16.266"N	104°09'06.601"W	1.16	
10434.00	93.000	270.700	6671.44	4005.71	81.19	-4004.90	555683.18	686760.18	32°53'16.270"N	104°09'06.975"W	4.42	
10466.00	93.500	270.600	6669.63	4037.65	81.55	-4036.85	555651.23	686760.54	32°53'16.274"N	104°09'07.350"W	1.59	
10498.00	93.400	270.500	6667.70	4069.60	81.86	-4068.79	555619.30	686760.85	32°53'16.277"N	104°09'07.725"W	0.44	
10530.00	92.200	269.800	6666.14	4101.55	81.94	-4100.75	555587.34	686760.93	32°53'16.279"N	104°09'08.099"W	4.34	
10562.00	91.600	269.600	6665.08	4133.53	81.77	-4132.73	555555.36	686760.76	32°53'16.278"N	104°09'08.474"W	1.98	
10593.00	91.600	269.700	6664.21	4164.51	81.58	-4163.72	555524.37	686760.58	32°53'16.276"N	104°09'08.838"W	0.32	
10624.00	91.500	269.800	6663.37	4195.49	81.45	-4194.70	555493.39	686760.44	32°53'16.276"N	104°09'09.201"W	0.46	
10656.00	91.300	269.700	6662.59	4227.47	81.31	-4226.69	555461.40	686760.30	32°53'16.275"N	104°09'09.576"W	0.70	
10687.00	91.300	269.800	6661.89	4258.45	81.17	-4257.69	555430.41	686760.17	32°53'16.274"N	104°09'09.940"W	0.32	
10719.00	91.300	269.800	6661.16	4290.44	81.06	-4289.68	555398.42	686760.05	32°53'16.273"N	104°09'10.315"W	0.00	
10750.00	91.300	269.800	6660.46	4321.42	80.95	-4320.67	555367.43	686759.95	32°53'16.273"N	104°09'10.678"W	0.00	
10783.00	91.100	269.800	6659.77	4354.41	80.84	-4353.66	555334.44	686759.83	32°53'16.272"N	104°09'11.065"W	0.61	
10814.00	90.800	269.600	6659.25	4385.40	80.68	-4384.66	555303.45	686759.67	32°53'16.271"N	104°09'11.429"W	1.16	
10846.00	90.700	269.200	6658.84	4417.38	80.54	-4416.65	555271.46	686759.33	32°53'16.268"N	104°09'11.804"W	1.29	
10877.00	90.500	269.300	6658.51	4448.37	79.93	-4447.65	555240.47	686758.93	32°53'16.265"N	104°09'12.167"W	0.72	
10909.00	90.500	269.700	6658.23	4480.35	79.65	-4479.65	555208.47	686758.65	32°53'16.263"N	104°09'12.543"W	1.25	
10940.00	90.600	270.100	6657.93	4511.35	79.60	-4510.64	555177.48	686758.59	32°53'16.263"N	104°09'12.906"W	1.33	
10994.00	90.600	270.100	6657.37	4565.34	79.70	-4564.64	555123.48	686758.69	32°53'16.264"N	104°09'13.539"W	0.00	Projection to Bit

Actual Wellpath Report

No.1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Crow Flats)	Wellbore	No.1H AWB
Facility	Crow Flats 26 Fed No.1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Crow Flats 26 Fed No.1H PBHL		6679.00	80.24	-4579.09	555109.04	686759.23	32°53'16.270"N	104°09'13.709"W	point

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6060.00	Generic gyro - northseeking (Standard)	Ves, Gyro <100-6060>	No.1H AWB
6060.00	10940.00	NaviTrak (Standard)	MWD NaviTrak <6151-10940> Proj (10994)	No.1H AWB
10940.00	10994.00	Blind Drilling (std)	Projection to bit	No.1H AWB



Company: Mewbourne Oil Company

Lease/Well: Crow Flats 26 Federal/1H

Location: Sec 026 T-16S R-28E

Rig Name: Patterson 45

State/County: New Mexico /Eddy

Latitude: 32.25

GRID North is 0.10 Degrees East of True North

VS-Azi: 271.00 Degrees



Depth Reference : RKB 17 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: crow flats 26h #1_ed.ut

Minimum Curvature Method

Report Date/Time: 2/29/2012 / 09:45

Vaughn Energy Services

Shreveport, LA

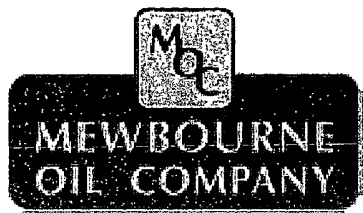
318-549-3860

Surveyor: Billy James

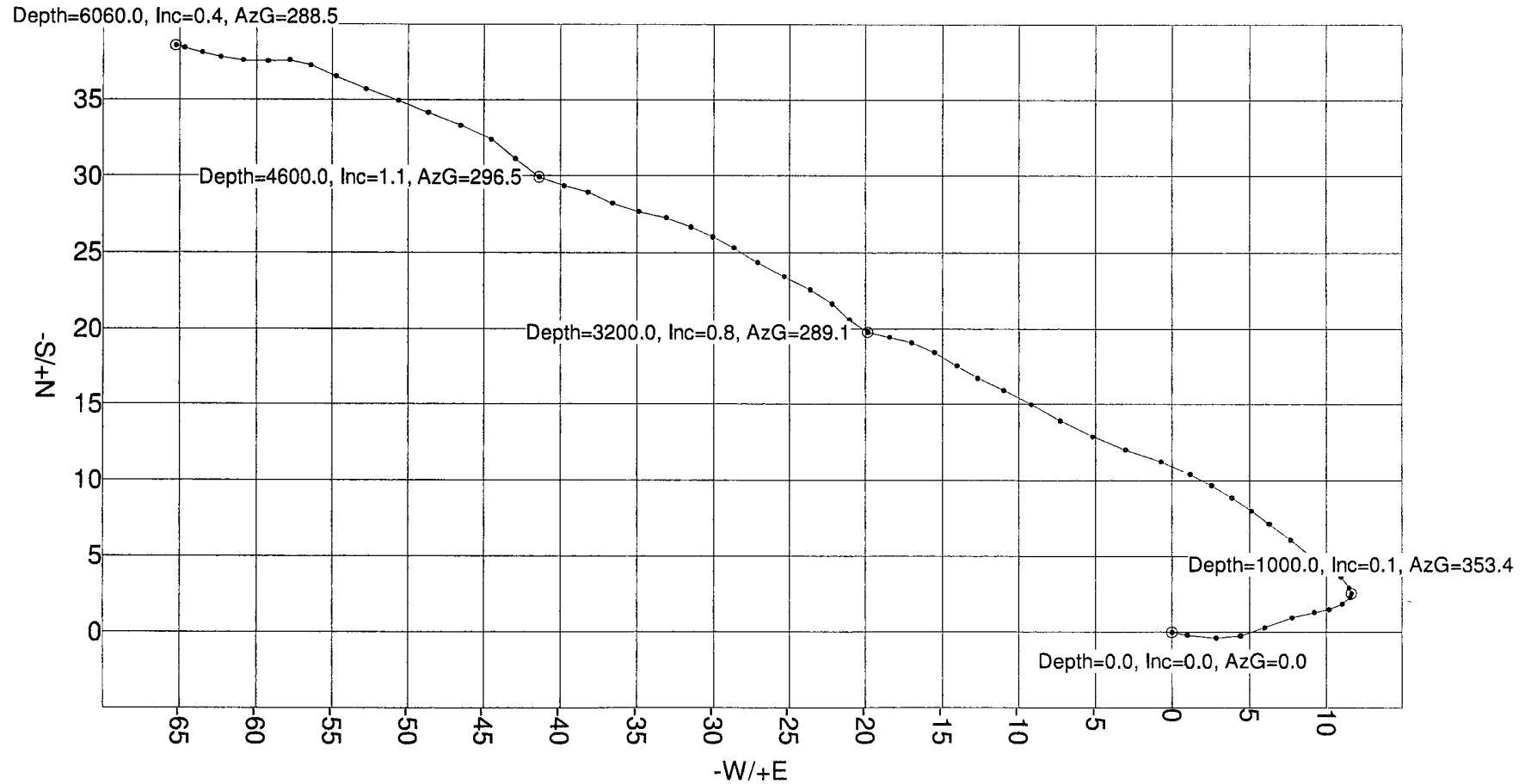
Crow Flats 26 Federal 1H / API 30-015-38983

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	1.14	101.04	99.99	-0.19	0.97	-0.98	0.99	101.04	1.14
200.00	1.04	89.65	199.98	-0.37	2.85	-2.86	2.88	97.48	0.24
300.00	0.80	78.75	299.96	-0.23	4.44	-4.44	4.44	93.01	0.30
400.00	1.10	65.78	399.95	0.30	5.99	-5.99	6.00	87.18	0.37
500.00	1.10	73.44	499.93	0.96	7.79	-7.77	7.85	82.96	0.15
600.00	0.60	81.50	599.92	1.31	9.23	-9.20	9.32	81.90	0.51
700.00	0.53	77.89	699.91	1.49	10.19	-10.16	10.30	81.70	0.08
800.00	0.53	55.44	799.91	1.85	11.02	-10.99	11.18	80.49	0.21
900.00	0.25	34.56	899.91	2.29	11.53	-11.49	11.76	78.77	0.32
1000.00	0.09	353.40	999.91	2.55	11.64	-11.60	11.92	77.65	0.19
1100.00	0.37	330.98	1099.91	2.92	11.48	-11.42	11.84	75.74	0.29
1200.00	0.66	318.58	1199.90	3.63	10.94	-10.87	11.52	71.62	0.31
1300.00	0.80	295.91	1299.89	4.37	9.93	-9.85	10.85	66.23	0.32
1400.00	0.69	314.60	1399.89	5.10	8.87	-8.78	10.23	60.10	0.27
1500.00	1.09	305.89	1499.87	6.08	7.67	-7.56	9.79	51.59	0.42
1600.00	0.88	308.44	1599.86	7.12	6.30	-6.17	9.50	41.51	0.21
1700.00	0.78	305.83	1699.85	7.99	5.14	-5.00	9.50	32.75	0.11
1800.00	0.99	302.66	1799.84	8.86	3.86	-3.71	9.66	23.55	0.21
1900.00	0.78	301.41	1899.82	9.68	2.55	-2.38	10.01	14.78	0.21
2000.00	1.01	295.82	1999.81	10.42	1.18	-1.00	10.48	6.49	0.24

Depth FT	IC 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
2100.00	1.35	290.89	2099.79	11.22	-0.71	0.90	11.24	356.40	0.36
2200.00	1.45	287.62	2199.76	12.02	-3.01	3.22	12.39	345.95	0.12
2300.00	1.26	296.01	2299.73	12.88	-5.20	5.42	13.89	338.02	0.27
2400.00	1.43	296.45	2399.71	13.92	-7.30	7.54	15.72	332.32	0.17
2500.00	1.08	304.55	2499.68	15.01	-9.19	9.45	17.60	328.51	0.39
2600.00	1.23	291.42	2599.66	15.94	-10.97	11.25	19.35	325.46	0.30
2700.00	0.92	299.67	2699.64	16.73	-12.67	12.96	20.98	322.86	0.35
2800.00	0.94	303.20	2799.63	17.57	-14.05	14.36	22.50	321.35	0.06
2900.00	1.02	297.25	2899.62	18.43	-15.52	15.84	24.10	319.89	0.13
3000.00	0.83	291.59	2999.60	19.10	-16.99	17.32	25.56	318.35	0.21
3100.00	0.88	276.26	3099.59	19.45	-18.43	18.77	26.80	316.54	0.23
3200.00	0.79	289.10	3199.58	19.76	-19.85	20.19	28.01	314.87	0.21
3300.00	0.90	317.28	3299.57	20.56	-21.03	21.39	29.41	314.35	0.42
3400.00	0.90	308.55	3399.56	21.62	-22.17	22.55	30.97	314.28	0.14
3500.00	1.06	296.96	3499.54	22.54	-23.62	24.01	32.64	313.66	0.26
3600.00	1.14	296.89	3599.53	23.40	-25.33	25.73	34.48	312.74	0.07
3700.00	1.13	300.15	3699.51	24.35	-27.06	27.49	36.41	311.98	0.06
3800.00	0.95	301.70	3799.49	25.28	-28.62	29.06	38.19	311.45	0.19
3900.00	0.85	291.99	3899.48	25.99	-30.02	30.47	39.71	310.89	0.18
4000.00	0.95	296.24	3999.47	26.64	-31.45	31.91	41.22	310.26	0.12
4100.00	1.03	285.50	4099.45	27.25	-33.07	33.54	42.85	309.49	0.20
4200.00	1.07	279.54	4199.43	27.64	-34.86	35.34	44.49	308.41	0.12
4300.00	1.02	297.61	4299.42	28.21	-36.57	37.06	46.19	307.65	0.33
4400.00	1.00	290.54	4399.40	28.93	-38.18	38.68	47.90	307.15	0.13
4500.00	0.86	279.03	4499.39	29.36	-39.74	40.24	49.40	306.45	0.23
4600.00	1.11	296.46	4599.37	29.91	-41.35	41.86	51.03	305.88	0.39
4700.00	1.18	318.69	4699.35	31.11	-42.89	43.43	52.99	305.95	0.45
4800.00	1.19	298.96	4799.33	32.39	-44.48	45.04	55.03	306.06	0.41
4900.00	1.35	291.19	4899.31	33.32	-46.49	47.07	57.20	305.63	0.23
5000.00	1.26	291.70	4999.28	34.15	-48.61	49.20	59.41	305.09	0.09
5100.00	1.23	291.52	5099.26	34.95	-50.63	51.23	61.52	304.62	0.03
5200.00	1.36	287.45	5199.23	35.70	-52.77	53.38	63.71	304.08	0.16
5300.00	1.14	298.92	5299.21	36.54	-54.77	55.40	65.84	303.71	0.34
5400.00	0.96	289.25	5399.19	37.30	-56.43	57.08	67.64	303.46	0.25
5500.00	0.68	273.51	5499.18	37.61	-57.82	58.47	68.97	303.04	0.36
5600.00	0.95	264.49	5599.17	37.56	-59.24	59.89	70.15	302.38	0.30
5700.00	0.94	278.45	5699.16	37.61	-60.88	61.53	71.56	301.70	0.23
5800.00	0.77	279.58	5799.15	37.84	-62.35	63.00	72.93	301.25	0.17
5900.00	0.64	287.17	5899.14	38.11	-63.55	64.20	74.10	300.95	0.16
6000.00	0.70	284.41	5999.13	38.43	-64.68	65.34	75.24	300.72	0.07
6060.00	0.45	288.45	6059.13	38.60	-65.26	65.92	75.82	300.60	0.43



Vaughn Energy Services
Shreveport, LA
318-549-3860
Surveyor: Billy James
Crow Flats 26 Federal 1H / API 30-015-38983



VES Survey Date: 02/21/2012

Do It Once. Do It Right.		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Drawing	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 12-Mar-12	
Well Name Crow Flats -26- Federal #1H		Type of Installation 19-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM	
Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 1 of 3					
REV_					
TD					
10,994					
TVD					
6,657					
KOP					
6,186					
TOL					
6,814					
261bbbls					
7" Shoe					
		Drillable FracPORT's to be shipped without handling pups Latched Seal Assembly 7" 23-32 ppf x 3.875" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer PN: 108425-000004 (Shear Pins: 2 @ 482 plus 1 @ 241 : 1,205 psi setting pressure) SF Bottom Guide S# SNU0007077	5.875"	4.750	3.35
		7" 26# P-110 LT&C Casing	5.850"	3.850	0.93
					3.16
Stage 19		4-1/2" 13.50# P-110 LTC LINER JOINTS: 8 Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball PN: 121332-000023 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EA3017235	4.500"	3.930	307.61
7,132		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5.630"	3.500	2.65
266bbbls		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	75.40
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S# EA4001745	4.500"	3.930	6.06
7,216		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25
Stage 18		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4.500"	3.93'	3.05
7,340		Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball PN: 121332-000022 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EA3017152	4.500"	3.930	115.71
269bbbls		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	5.630"	3.375	2.65
RSII		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	114.84
7,463		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S# EA4001302	4.500"	3.930	6.10
Stage 17		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25
7,587		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4.500"	3.93'	2.99
272bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball PN: 121332-000021 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EA1025201	4.500"	3.930	115.07
RSII		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5.630"	3.250	2.65
7,672		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	76.74
Stage 16		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S# EA4001749	4.500"	3.930	6.04
7,757		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25
275bbbls		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	4.500"	3.93'	3.04
RSII		Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball PN: 121332-000020 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EA1025136	4.500"	3.930	76.87
7,843		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5.630"	3.125	2.65
Stage 15		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	76.73
7,966		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S# EA4001748	4.500"	3.930	6.05
278bbbls		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25
RSII		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4.500"	3.93'	3.02
8,053		Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball PN: 121332-000019 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EA1024304	4.500"	3.930	115.67
		4-1/2" 13.50# P-110 LTC LINER JOINTS: 2	5.630"	3.000	2.65
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	77.31
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S# EA4001750	4.500"	3.930	6.06
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25
		4-1/2" 13.50# P-110 LTC LINER JOINTS: 3	4.500"	3.93'	3.02
			4.500"	3.930	115.46
Service Center Midland, TX		Telephone 432-563-8024	Contact Scott Mabry		
			Telephone Chad Williams 405-255-3223		

		Do It Once. Do It Right.	Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Drawing	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 12-Mar-12		
Well Name Crow Flats -26- Federal #1H		Type of Installation 19-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length	
Page 2 of 3						
REV_						
Stage 14		Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball	5.630"	2.875	2.65	
8,176		PN: 121332-000018 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA3016371		3.840		
281bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	76.72	
		JOINTS: 2	4.500"	3.930	6.11	
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25	
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer				
8,262		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001305	4.500"	3.93'	3.03	
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	115.30	
		4-1/2" 13.50# P-110 LTC LINER	5.630"	2.750	2.65	
		JOINTS: 3	4.500"	3.930		
Stage 13		Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball				
8,385		PN: 121332-000017 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1025091		3.840		
284bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	77.41	
		JOINTS: 2	4.500"	3.930	6.05	
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25	
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer				
8,471		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001746	4.500"	3.93'	3.01	
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	115.42	
		4-1/2" 13.50# P-110 LTC LINER	5.630"	2.625	2.65	
		JOINTS: 3	4.500"	3.930		
Stage 12		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball				
8,595		PN: 121332-000016 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1024858		3.840		
287bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	77.47	
		JOINTS: 2	4.500"	3.930	6.03	
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25	
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer				
8,681		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001747	4.500"	3.93'	3.08	
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	116.02	
		4-1/2" 13.50# P-110 LTC LINER	5.630"	2.500	2.65	
		JOINTS: 3	4.500"	3.930		
Stage 11		Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball				
8,806		PN: 121332-000015 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1024805		3.840		
290bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	76.71	
		JOINTS: 2	4.500"	3.930	6.03	
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25	
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer				
8,891		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001751	4.500"	3.93'	3.03	
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	115.09	
		4-1/2" 13.50# P-110 LTC LINER	5.630"	2.375	2.65	
		JOINTS: 3	4.500"	3.930		
Stage 10		Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball				
9,014		PN: 121332-000014 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1024736		3.840		
293bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	114.59	
		JOINTS: 3	4.500"	3.930	6.11	
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25	
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer				
9,138		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001309	4.500"	3.93'	3.02	
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	116.04	
		4-1/2" 13.50# P-110 LTC LINER	5.630"	2.250	2.65	
		JOINTS: 3	4.500"	3.930		
Stage 9		Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball				
9,262		PN: 121332-000013 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1024695		3.840		
297bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	77.26	
		JOINTS: 2	4.500"	3.930	6.06	
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25	
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer				
9,348		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001306	4.500"	3.93'	3.03	
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	116.24	
		4-1/2" 13.50# P-110 LTC LINER	5.630"	2.125	2.65	
		JOINTS: 3	4.500"	3.930		
Stage 8		Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball				
9,473		PN: 121332-000012 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1023988		3.840		
300bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	77.49	
		JOINTS: 2	4.500"	3.930	6.08	
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	5.750"	3.875	5.25	
RSII		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer				
9,559		PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001303	4.500"	3.93'	3.00	
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	114.81	
		4-1/2" 13.50# P-110 LTC LINER	5.630"	2.000	2.65	
		JOINTS: 3	4.500"	3.930		
Stage 7		Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball				
9,682		PN: 121332-000011 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1024494		3.840		
303bbbls		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.930	76.96	
		JOINTS: 2				
Service Center Midland, TX		Telephone 432-563-8024		Contact Scott Mabry		
				Telephone Chad Williams 405-255-3223		

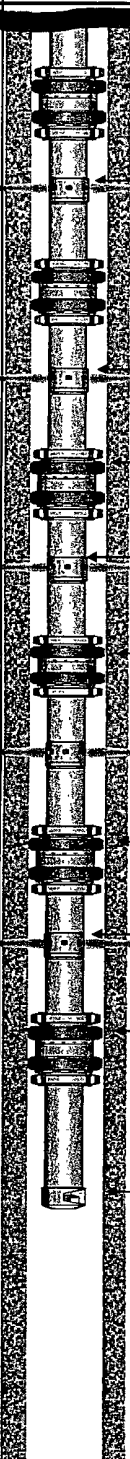


Do It Once.
Do It Right

Confidential Information - not to be disclosed
outside Mewbourne Oil Company

Final
Drawing

Prepared for Mr. Mickey Young	Company Mewbourne Oil Company	Date 12-Mar-12
Well Name Crow Flats -26- Federal #1H	Type of Installation 19-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM

Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 3 of 3					
REV_		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4.500"	3.930	6.02
RSII 9,767		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001307	5.750"	3.875	5.25
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint			
		4-1/2" 13.60# P-110 LTC LINER	4.500"	3.93'	3.03
Stage 6 9,891 307bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball PN: 121332-000010 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1019663	4.500"	3.930	115.75
		4-1/2" 13.50# P-110 LTC LINER	5.630"	1.875	2.65
		JOINTS: 3	4.500"	3.930	3.840
		JOINTS: 2	4.500"	3.930	77.47
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	6.04
RSII 9,978		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001304	5.750"	3.875	5.25
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint			
		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.93'	3.03
Stage 5 10,102 310bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball PN: 121332-000009 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1023789	4.500"	3.930	115.98
		4-1/2" 13.50# P-110 LTC LINER	5.630"	1.750	2.65
		JOINTS: 3	4.500"	3.930	3.840
		JOINTS: 2	4.500"	3.930	77.17
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	6.11
RSII 10,188		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001308	5.750"	3.875	5.25
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint			
		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.93'	3.01
Stage 4 10,312 313bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball PN: 121332-000008 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1017288	4.500"	3.930	116.19
		4-1/2" 13.50# P-110 LTC LINER	5.630"	1.625	2.65
		JOINTS: 3	4.500"	3.930	3.840
		JOINTS: 3	4.500"	3.930	115.31
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	6.09
RSII 10,436		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001737	5.750"	3.875	5.25
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint			
		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.93'	3.03
Stage 3 10,560 317bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball PN: 121332-000007 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA3016603	4.500"	3.930	115.12
		4-1/2" 13.50# P-110 LTC LINER	5.630"	1.500	2.65
		JOINTS: 3	4.500"	3.930	3.840
		JOINTS: 2	4.500"	3.930	75.58
		6' x 4-1/2" 13.50# P-110 LTC Pup Joint	4.500"	3.930	6.07
RSII 10,644		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001744	5.750"	3.875	5.25
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint			
		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.93'	2.98
Stage 2 10,768 320bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball PN: 121332-000006 (5 shear pins at 314 psi each; 1,570 psi opening pressure)S# EA1015729	4.500"	3.930	115.42
		4-1/2" 13.50# P-110 LTC LINER	5.630"	1.375	2.65
		JOINTS: 3	4.500"	3.930	3.840
		JOINTS: 2	4.500"	3.930	77.04
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4.500"	3.930	6.10
RSII 10,853		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 121381-000001 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S# EA4001735	5.750"	3.875	5.25
		3' x 4-1/2" 13.50# P-110 LTC Pup Joint			
		4-1/2" 13.50# P-110 LTC LINER	4.500"	3.93'	3.03
		JOINTS: 3	4.500"	3.930	115.09
Stage 1 10,980 323bbbls		6' x 4-1/2" 13.50# P-110 LTC Pup Joint			2.70
		Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)			
TMD					

Service Center Telephone Contact
Midland, TX 432-563-8024 Scott Mabry

Telephone
Chad Williams 405-255-3223



Mewbourne Oil Company

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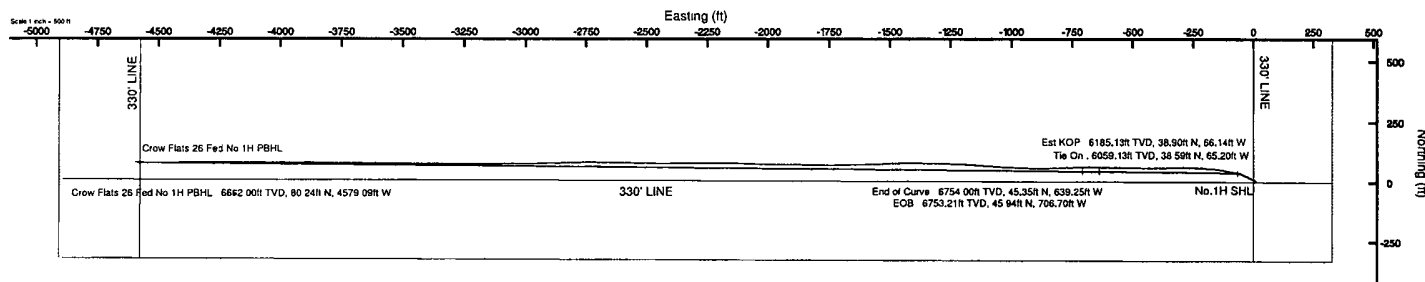
Location Eddy County, NM
Field (Crow Flats)
Facility Crow Flats 26 Fed No.1H

Slot No.1H SHL
Well No.1H
Wellbore No.1H PWB

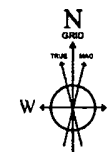


Well Profile Data

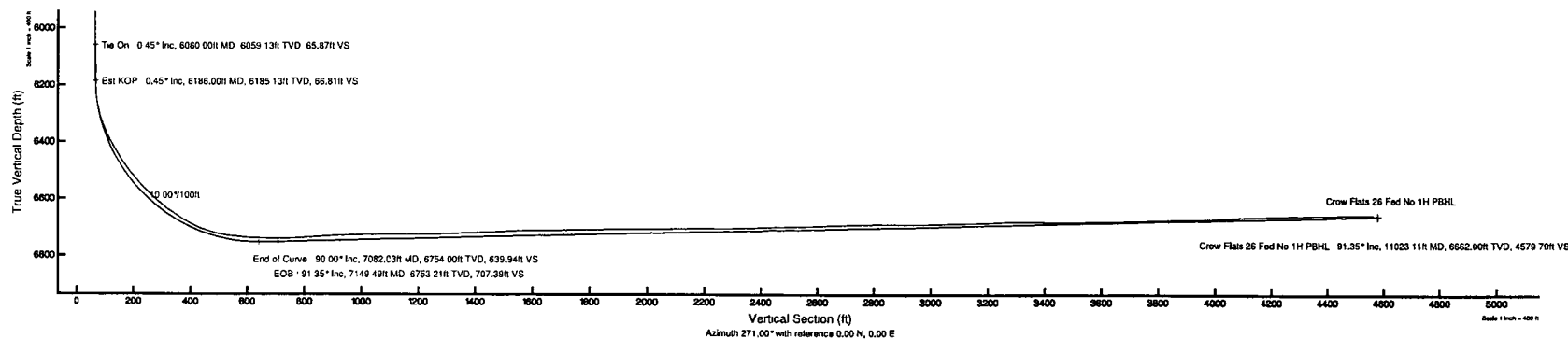
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6060.00	0.450	288.450	6059.13	38.59	-65.20	0.00	65.87
Est KOP	6186.00	0.450	288.450	6185.13	38.90	-66.14	0.00	66.81
End of Curve	7082.03	90.000	270.507	6754.00	45.35	-639.25	10.00	639.94
EOB	7149.49	91.349	270.507	6753.21	45.94	-706.70	2.00	707.39
Crow Flats 26 Fed No.1H PBHL	11023.11	91.349	270.507	6662.00	80.24	-4579.09	0.00	4579.79



Plot reference wellpath is Plan #1	
True vertical depths are referenced to Rig on No.1H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.1H SHL (KB)	North Reference: Grid north
Rig on No.1H SHL (KB) to Mean Sea Level: 3819 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.1H SHL): -3584 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 2/21/2012



BGGM (1945.0 to 2012.0) Dp: 60.72° Field: 49020.3 nT
Magnetic North is 8.00 degrees East of True North (at 1/31/2011)
Grid North is 0.11 degrees East of True North
To correct azimuth from True to Grid subtract 0.11 degrees
To correct azimuth from Magnetic to Grid add 7.90 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.90 = 97.90



Actual Wellpath Report

No.1H AWP

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Eddy County, NM	Well	No.1H
Field	(Crow Flats)	Wellbore	No.1H AWB
Facility	Crow Flats 26 Fed 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	Gentbry
Scale	0.999913	Report Generated	3/12/2012 at 1:27:12 PM
Convergence at slot	0.11° 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	559687.72	686679.00	32°53'15.396"N	104°08'20.014"W
Facility Reference Pt			559687.72	686679.00	32°53'15.396"N	104°08'20.014"W
Field Reference Pt			550387.25	689669.00	32°53'45.139"N	104°10'09.030"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.1H SHL (KB) to Facility Vertical Datum	35.00ft
Horizontal Reference Pt	Slot	Rig on No.1H SHL (KB) to Mean Sea Level	3619.00ft
Vertical Reference Pt	Rig on No.1H SHL (KB)	Rig on No.1H SHL (KB) to Mud Line at Slot (No.1H SHL)	35.00ft
MD Reference Pt	Rig on No.1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	271.00°