

OPERATOR
WELL/LEASE
COUNTY

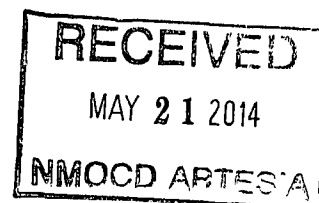
MEWBOURNE OIL COMPANY
Henry 8 PM Fed Com 1H
EDDY

041-0123

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-4955

344	0.92
610	1.09
787	1.25
1,188	1.00
1,479	0.82
1,891	1.33
2,107	1.30
2,390	3.69
2,517	5.63
2,612	4.40
2,706	3.38
2,883	2.18
3,069	2.36
3,424	1.86
3,767	1.72
4,178	0.77
4,556	1.41
4,840	1.50
4,871	1.55
5,155	2.00
5,502	1.88
5,912	1.47
6,259	0.33
6,606	0.50
7,020	0.88



BY: Daisy Carrillo

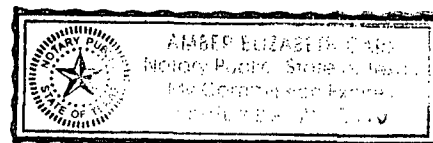
STATE OF TEXAS

COUNTY OF MIDLAND

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

5/8/14, by

Amber Carr
Notary Public for Midland County, Texas
My Commission Expires:

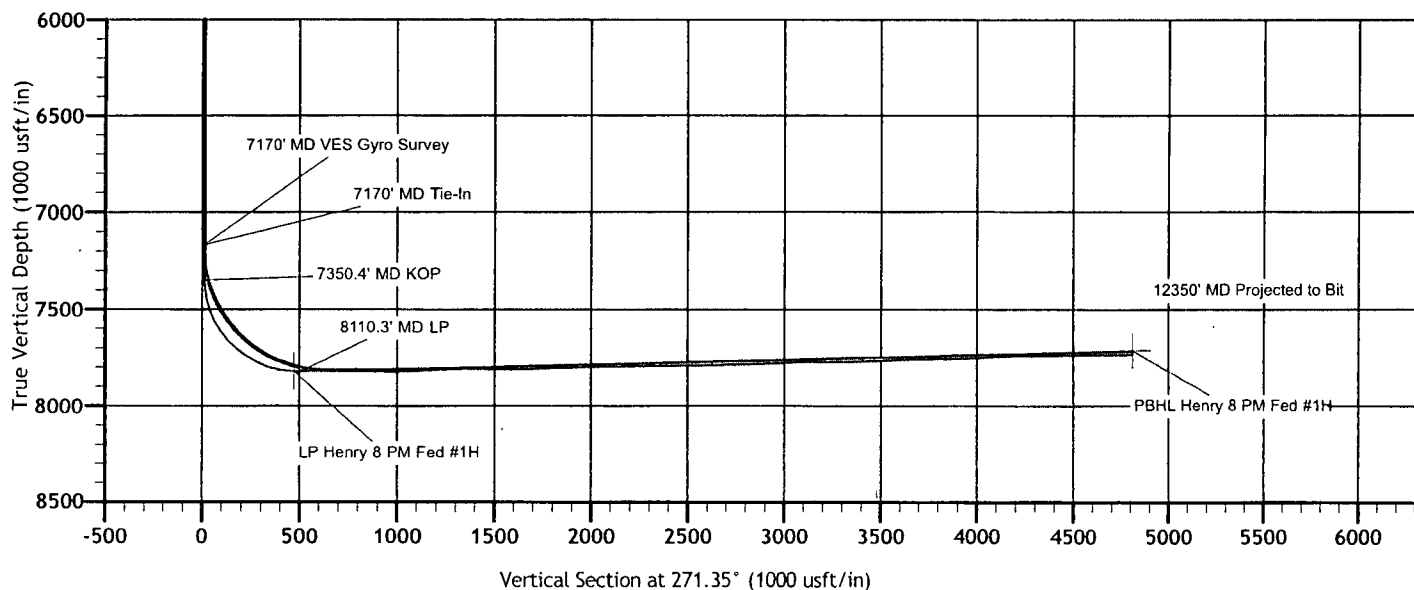
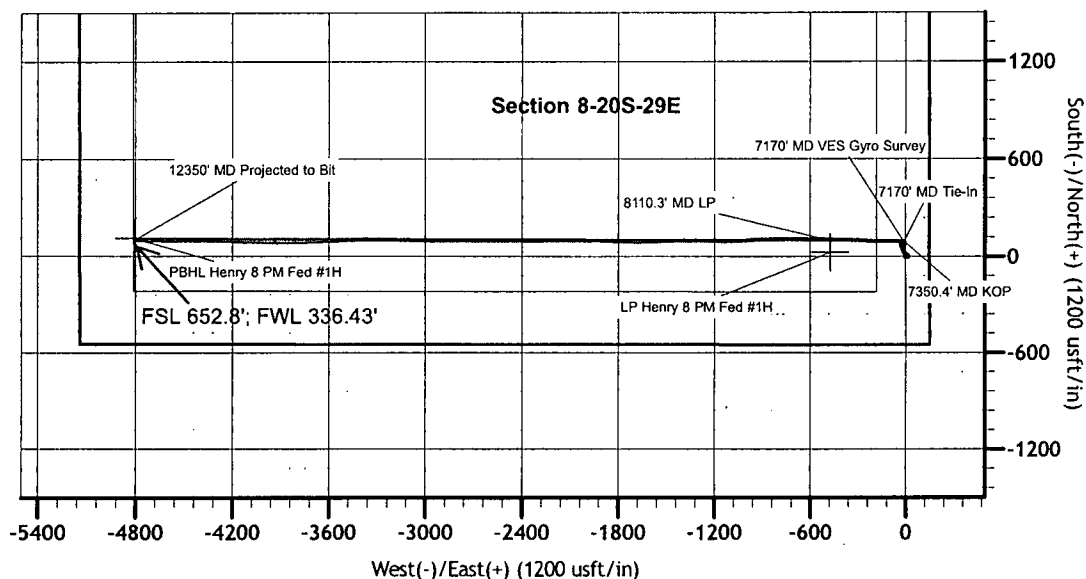
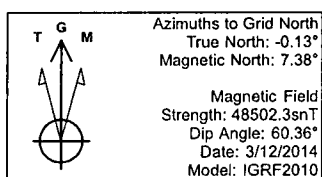




COMPANY: Mewbourne Oil Company .
 WELL: Henry 8 PM Federal #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #160
 GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.38°

GEODETTIC ZONE: New Mexico East 3001							
GL 3273 + 20 @ 3293.0usft (Patterson #160)							
GROUND ELEVATION: 3273.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.0	0.0	575573.30	575383.70	32° 34' 55.628 N	104° 5' 18.951 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	7170.0	1.15	346.28	7167.7	91.3	-10.1	0.00	0.00	12.2	
2	7350.4	1.15	346.28	7348.1	94.8	-10.9	0.00	0.00	13.2	
3	8110.3	91.46	270.11	7823.0	105.3	-500.6	12.00	-76.14	502.9	
4	12421.3	91.46	270.11	7713.0	113.5	-4810.1	0.00	0.00	4811.5	PBHL Henry 8 PM Fed #1H





Job Number: M141078

Company: Mewbourne Oil Company

Lease/Well: Henry 8 PM Federal Com # 1 H

Location: Eddy County

Rig Name: Patterson # 41

RKB: N/A

G.L. or M.S.L.: N/A

State/Country: New Mexico / USA

Declination: 7.38° Corrected to Grid

Grid: 7.38°

File name: C:\WINSERVE\DOCS\M141078.SVY

Date/Time: 11-May-14 / 14:22

Curve Name: SES MWD SURVEY RAN ON 4-16-14

Stryker Energy Directional Services, LLC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 271.35

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
Tie-In Data Provided by VES Gyro Survey									
7170.00	1.20	346.30	7167.70	91.30	-10.10	12.25	91.86	353.69	.00
7223.00	1.10	347.70	7220.69	92.34	-10.34	12.51	92.91	353.61	.20
7252.00	2.40	285.10	7249.68	92.77	-10.99	13.17	93.41	353.25	7.35
7284.00	7.50	270.20	7281.55	92.95	-13.72	15.91	93.96	351.60	16.30
7316.00	13.20	271.60	7313.01	93.06	-19.47	21.65	95.07	348.18	17.83
7347.00	16.20	273.50	7343.00	93.42	-27.32	29.52	97.33	343.70	9.80
7379.00	17.70	275.40	7373.61	94.15	-36.62	38.83	101.02	338.74	5.00
7411.00	19.90	274.90	7403.90	95.07	-46.89	49.12	106.01	333.75	6.89
7443.00	23.30	271.40	7433.65	95.69	-58.65	60.89	112.24	328.50	11.36
7475.00	26.80	269.50	7462.63	95.79	-72.20	74.43	119.95	322.99	11.22
7506.00	29.60	269.30	7489.95	95.63	-86.84	89.07	129.18	317.76	9.04
7538.00	31.50	269.60	7517.51	95.48	-103.11	105.33	140.52	312.80	5.96
7570.00	33.50	269.30	7544.49	95.31	-120.30	122.51	153.48	308.39	6.27
7602.00	37.20	269.30	7570.59	95.08	-138.81	141.01	168.25	304.41	11.56
7634.00	40.40	270.30	7595.53	95.02	-158.86	161.05	185.11	300.89	10.19
7665.00	42.50	272.10	7618.76	95.46	-179.37	181.57	203.19	298.02	7.79
7697.00	44.80	273.00	7641.91	96.44	-201.43	203.65	223.33	295.58	7.44
7730.00	49.00	272.80	7664.46	97.66	-225.49	227.73	245.73	293.42	12.73
7761.00	51.80	272.60	7684.22	98.78	-249.35	251.61	268.20	291.61	9.05
7793.00	54.50	273.20	7703.40	100.08	-274.92	277.20	292.57	290.00	8.57
7825.00	57.40	273.00	7721.32	101.51	-301.39	303.70	318.03	288.61	9.08
7857.00	60.50	272.50	7737.82	102.83	-328.77	331.10	344.48	287.37	9.78
7889.00	63.70	271.20	7752.80	103.74	-357.03	359.38	371.80	286.20	10.62
7920.00	67.00	270.30	7765.72	104.10	-385.20	387.55	399.02	285.12	10.97

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
7952.00	70.70	270.00	7777.27	104.18	-415.04	417.38	427.92	284.09	11.60
7984.00	73.10	270.30	7787.21	104.26	-445.46	447.79	457.49	283.17	7.55
8016.00	74.50	270.30	7796.14	104.42	-476.18	478.51	487.50	282.37	4.37
8048.00	77.30	270.20	7803.93	104.56	-507.22	509.54	517.88	281.65	8.76
8079.00	80.80	270.70	7809.82	104.80	-537.65	539.97	547.76	281.03	11.40
8111.00	84.20	271.60	7813.99	105.43	-569.36	571.69	579.04	280.49	10.98
8145.00	87.40	271.90	7816.48	106.47	-603.25	605.59	612.57	280.01	9.45
8217.00	90.70	271.60	7817.68	108.67	-675.20	677.57	683.88	279.14	4.60
8248.00	90.70	270.50	7817.30	109.23	-706.19	708.57	714.59	278.79	3.55
8312.00	89.30	269.60	7817.30	109.29	-770.19	772.55	777.90	278.08	2.60
8375.00	88.50	269.10	7818.51	108.58	-833.17	835.50	840.21	277.42	1.50
8438.00	89.40	267.90	7819.66	106.93	-896.14	898.41	902.49	276.80	2.38
8501.00	90.10	265.60	7819.94	103.36	-959.03	961.20	964.58	276.15	3.82
8564.00	90.60	265.80	7819.55	98.63	-1021.85	1023.89	1026.60	275.51	.85
8627.00	91.70	270.30	7818.29	96.49	-1084.78	1086.76	1089.07	275.08	7.35
8691.00	93.20	270.70	7815.55	97.05	-1148.72	1150.69	1152.81	274.83	2.43
8752.00	93.80	271.40	7811.83	98.16	-1209.60	1211.57	1213.57	274.64	1.51
8817.00	91.90	271.10	7808.60	99.58	-1274.50	1276.49	1278.38	274.47	2.96
8880.00	91.10	270.30	7806.95	100.35	-1337.47	1339.46	1341.23	274.29	1.80
8975.00	89.50	268.80	7806.45	99.60	-1432.46	1434.41	1435.92	273.98	2.31
9038.00	88.60	267.70	7807.49	97.68	-1495.42	1497.31	1498.61	273.74	2.26
9102.00	90.70	267.90	7807.89	95.22	-1559.37	1561.18	1562.27	273.49	3.30
9165.00	92.00	267.90	7806.40	92.91	-1622.31	1624.05	1624.97	273.28	2.06
9229.00	92.90	271.10	7803.66	92.35	-1686.24	1687.94	1688.76	273.13	5.19
9292.00	92.10	272.80	7800.92	94.50	-1749.14	1750.88	1751.69	273.09	2.98
9356.00	90.70	271.80	7799.35	97.06	-1813.06	1814.85	1815.66	273.06	2.69
9419.00	89.60	270.70	7799.19	98.44	-1876.05	1877.85	1878.63	273.00	2.47
9482.00	91.00	270.90	7798.86	99.32	-1939.04	1940.84	1941.58	272.93	2.24
9546.00	92.20	270.90	7797.07	100.32	-2003.00	2004.81	2005.52	272.87	1.87
9609.00	92.60	270.50	7794.43	101.09	-2065.94	2067.75	2068.42	272.80	.90
9672.00	90.70	269.50	7792.62	101.09	-2128.91	2130.71	2131.31	272.72	3.41
9736.00	89.50	268.40	7792.51	99.92	-2192.90	2194.65	2195.18	272.61	2.54
9799.00	91.00	269.30	7792.23	98.65	-2255.89	2257.58	2258.04	272.50	2.78
9862.00	92.70	270.20	7790.20	98.38	-2318.85	2320.52	2320.94	272.43	3.05
9925.00	91.80	270.50	7787.73	98.76	-2381.80	2383.47	2383.85	272.37	1.51
9989.00	90.80	270.20	7786.27	99.15	-2445.78	2447.44	2447.79	272.32	1.63
10052.00	90.50	269.80	7785.56	99.15	-2508.78	2510.42	2510.74	272.26	.79
10115.00	90.70	270.00	7784.90	99.04	-2571.77	2573.39	2573.68	272.21	.45
10178.00	91.40	270.00	7783.74	99.04	-2634.76	2636.36	2636.62	272.15	1.11
10241.00	90.90	270.20	7782.48	99.15	-2697.75	2699.34	2699.57	272.10	.85
10305.00	90.10	269.60	7781.92	99.04	-2761.75	2763.31	2763.52	272.05	1.56
10368.00	90.70	270.50	7781.48	99.10	-2824.74	2826.29	2826.48	272.01	1.72
10431.00	93.10	270.70	7779.39	99.76	-2887.70	2889.25	2889.42	271.98	3.82
10494.00	93.40	270.90	7775.82	100.64	-2950.59	2952.14	2952.31	271.95	.57
10558.00	92.70	270.90	7772.42	101.64	-3014.49	3016.05	3016.21	271.93	1.09

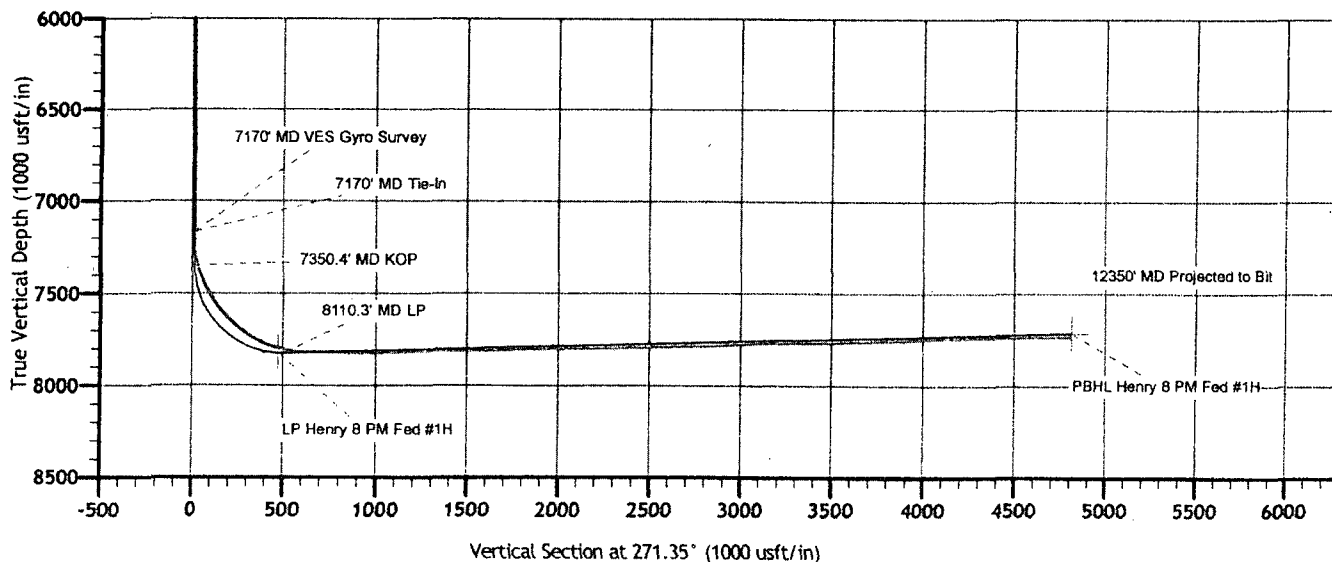
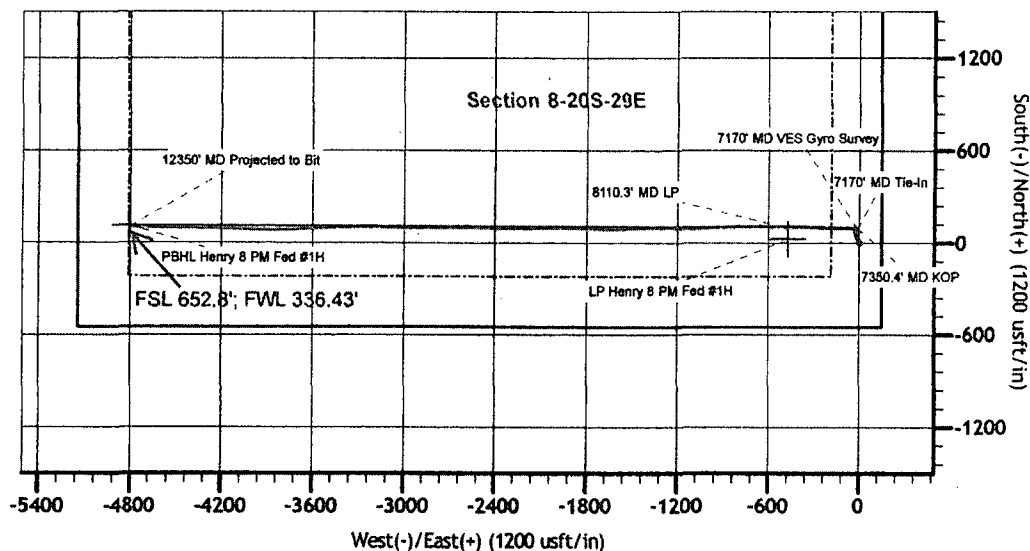
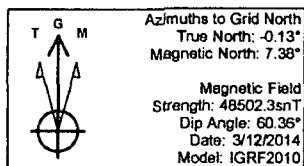
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
10620.00	92.50	271.20	7769.60	102.77	-3076.42	3077.99	3078.14	271.91	.58
10684.00	90.70	271.20	7767.82	104.11	-3140.38	3141.96	3142.10	271.90	2.81
10747.00	89.90	270.90	7767.49	105.27	-3203.37	3204.96	3205.10	271.88	1.36
10810.00	91.00	270.70	7766.99	106.15	-3266.36	3267.95	3268.08	271.86	1.77
10874.00	90.20	270.40	7766.32	106.76	-3330.35	3331.94	3332.06	271.84	1.34
10937.00	91.50	269.30	7765.39	106.60	-3393.34	3394.91	3395.01	271.80	2.70
11000.00	92.40	268.20	7763.24	105.22	-3456.29	3457.81	3457.89	271.74	2.26
11064.00	93.00	266.50	7760.23	102.27	-3520.15	3521.58	3521.63	271.66	2.81
11127.00	91.90	266.50	7757.54	98.43	-3582.97	3584.29	3584.32	271.57	1.75
11190.00	91.50	267.00	7755.67	94.86	-3645.84	3647.06	3647.07	271.49	1.02
11253.00	91.10	269.10	7754.24	92.71	-3708.78	3709.94	3709.94	271.43	3.39
11317.00	90.50	269.10	7753.34	91.71	-3772.77	3773.88	3773.88	271.39	.94
11380.00	91.20	269.10	7752.41	90.72	-3835.75	3836.83	3836.83	271.35	1.11
11444.00	92.50	270.70	7750.34	90.61	-3899.72	3900.77	3900.77	271.33	3.22
11507.00	93.20	270.20	7747.21	91.10	-3962.64	3963.68	3963.68	271.32	1.36
11570.00	94.00	271.20	7743.25	91.87	-4025.51	4026.55	4026.55	271.31	2.03
11633.00	91.70	271.90	7740.12	93.57	-4088.40	4089.47	4089.47	271.31	3.82
11696.00	89.80	272.10	7739.30	95.77	-4151.35	4152.46	4152.46	271.32	3.03
11760.00	90.90	271.80	7738.91	97.95	-4215.31	4216.45	4216.45	271.33	1.78
11823.00	91.70	271.40	7737.48	99.71	-4278.27	4279.43	4279.44	271.34	1.42
11886.00	91.20	270.90	7735.88	100.97	-4341.24	4342.41	4342.41	271.33	1.12
11949.00	91.00	270.30	7734.67	101.63	-4404.22	4405.40	4405.40	271.32	1.00
12013.00	90.90	270.90	7733.61	102.30	-4468.21	4469.38	4469.38	271.31	.95
12076.00	90.80	270.30	7732.68	102.96	-4531.20	4532.37	4532.37	271.30	.97
12139.00	90.70	270.30	7731.85	103.29	-4594.20	4595.35	4595.36	271.29	.16
12203.00	90.50	270.00	7731.18	103.46	-4658.19	4659.34	4659.34	271.27	.56
12299.00	90.50	270.30	7730.35	103.71	-4754.19	4755.31	4755.32	271.25	.31
Projection to Bit									
12350.00	90.50	270.30	7729.90	103.98	-4805.18	4806.30	4806.31	271.24	.00



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 WELL: Henry 8 PM Federal #1H
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GROUND ELEVATION: 3273.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	575573.30	575383.70	32° 34' 55.628 N	104° 5' 18.951 W	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	7170.0	1.15	346.28	7167.7	91.3	-10.1	0.00	0.00	12.2	
2	7350.4	1.15	346.28	7348.1	84.8	-10.9	0.00	0.00	13.2	
3	8110.3	91.48	270.11	7823.0	105.3	-500.6	12.00	-76.14	502.9	
4	12421.3	91.48	270.11	7713.0	113.5	-4810.1	0.00	0.00	4811.5	PBHL Henry 8 PM Fed #1H



Operating Company Mewbourne Oil Co.
Well Name & Number Henry 8 PM Fed Com #1H
Sales Ticket Number 6329744
Date 4/24/2014

Company Rep Josh
Field 0
BOT Service Rep Dustin Butler
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	LTC//8RD	0.03826	8,199.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,367.48	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	7730.00	KOP	7223.00	Open Hole	6.125	Casing Vol. (bbl)	302.2
Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0		

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
Liner Top 1	10292414	JR SLV W/ 4.75" Alt seal bore ID	7898.52	4.00	5.750	4.000				

Zone Length	H409400008	S3 HANGER PACKER	7902.52	4.65	5.938	3.875				
	H299710014	SPACER NIPPLE	7907.17	8.05	4.500	3.938				
		8 JTS OF 4.5 13.5 P-110	7915.22	357.65	4.500	3.938				
	H810090020	3.500 EXP FRAC Sleeve ZONE 20	8272.87	2.40	5.750	3.500	3.488	2286	304	302
		2 JTS OF 4.5 13.5 P-110	8275.27	90.17	4.500	3.920				
	H409360008	OH PACKER 19	8365.44	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	8369.33	134.74	4.500	3.920				
	H810090019	3.438 EXP FRAC Sleeve ZONE 19	8504.07	2.40	5.750	3.438	3.385	2286	286	302
		2 JTS OF 4.5 13.5 P-110	8506.47	90.89	4.500	3.920				
	H409360008	OH PACKER 18	8597.36	3.89	5.820	3.875		2154		
		2 JTS OF 4.5 13.5 P-110	8601.25	89.64	4.500	3.920				
	H810090018	3.375 EXP FRAC Sleeve ZONE 18	8690.89	2.40	5.750	3.375	3.363	2286	282	302
		2 JTS OF 4.5 13.5 P-110	8693.29	89.39	4.500	3.920				
	H409360008	OH PACKER 17	8782.68	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	8786.57	135.04	4.500	3.920				
	H810090017	3.313 EXP FRAC Sleeve ZONE 17	8921.61	2.40	5.750	3.313	3.260	2286	265	302
		2 JTS OF 4.5 13.5 P-110	8924.01	89.07	4.500	3.920				
	H409360008	OH PACKER 16	9013.08	3.89	5.820	3.875		2154		
		2 JTS OF 4.5 13.5 P-110	9016.97	89.56	4.500	3.920				
	H810090016	3.250 EXP FRAC Sleeve ZONE 16	9106.53	2.40	5.750	3.250	3.198	2286	255	302
		2 JTS OF 4.5 13.5 P-110	9108.93	87.90	4.500	3.920				
	H409360008	OH PACKER 15	9196.83	3.89	5.820	3.875		2154		

Operating Company Mewbourne Oil Co.
Well Name & Number Henry 8 PM Fed Com #1H
Sales Ticket Number 6329744
Date 4/24/2014

Company Rep Josh
Field 0
BOT Service Rep Dustin Butler
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	110000	6.276	6.151	LTC / 8RD	0.03826	8,199.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,367.48	12,410	10,690	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-	
TVD		7730.00		KOP		7223.00		Open Hole	6.125	Casing Vol. (bbl)	302.2
Carry Fluid Weight (ppg)			8.4		Propan Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
		3 JTS OF 4.5 13.5 P-110	9200.72	133.93	4.500	3.920				
	H810090015	3.188 EXP FRAC Sleeve ZONE 15	9334.65	2.40	5.750	3.188	3.135	2286	245	302
		2 JTS OF 4.5 13.5 P-110	9337.05	90.74	4.500	3.920				
	H409360008	OH PACKER 14	9427.79	3.89	5.820	3.875		2154		
		2 JTS OF 4.5 13.5 P-110	9431.68	90.69	4.500	3.920				
	H810090014	3.125 EXP FRAC Sleeve ZONE 14	9522.37	2.40	5.750	3.125	3.073	2286	236	302
		2 JTS OF 4.5 13.5 P-110	9524.77	86.45	4.500	3.920				
	H409360008	OH PACKER 13	9611.22	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	9615.11	133.66	4.500	3.920				
	H810090013	3.063 EXP FRAC Sleeve ZONE 13	9748.77	2.40	5.750	3.063	3.010	2286	226	302
		2 JTS OF 4.5 13.5 P-110	9751.17	88.77	4.500	3.920				
	H409360008	OH PACKER 12	9839.94	3.89	5.820	3.875		2154		
		2 JTS OF 4.5 13.5 P-110	9843.83	84.31	4.500	3.920				
	H810090012	3.000 EXP FRAC Sleeve ZONE 12	9928.14	2.40	5.750	3.000	2.948	2286	217	302
		2 JTS OF 4.5 13.5 P-110	9930.54	90.39	4.500	3.920				
	H409360008	OH PACKER 11	10020.93	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	10024.82	135.69	4.500	3.920				
	H810090011	2.938 EXP FRAC Sleeve ZONE 11	10160.51	2.40	5.750	2.938	2.885	2286	208	302
		2 JTS OF 4.5 13.5 P-110	10162.91	90.24	4.500	3.920				
	H409360008	OH PACKER 10	10253.15	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	10257.04	135.24	4.500	3.920				
	H810090010	2.875 EXP FRAC Sleeve ZONE 10	10392.28	2.40	5.750	2.875	2.823	2286	199	302
		2 JTS OF 4.5 13.5 P-110	10394.68	90.16	4.500	3.920				
	H409360008	OH PACKER 9	10484.84	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	10488.73	135.53	4.500	3.920				
	H810090009	2.813 EXP FRAC Sleeve ZONE 9	10624.26	2.40	5.750	2.830	2.760	2286	190	302

Operating Company Mewbourne Oil Co.
Well Name & Number Henry 8 PM Fed Com #1H
Sales Ticket Number 6329744
Date 4/24/2014

Company Rep Josh
Field 0
BOT Service Rep Dustin Butler
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	110000	6.276	6.151	LTC//8RD	0.03826	8,199.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,367.48	12,410	10,690	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-	
TVD	7730.00		KOP		7223.00		Open Hole		6.125	Casing Vol. (bbl)	302.2
Carry Fluid Weight (ppg)		8.4		Propan Content (ppa)					Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
		2 JTS OF 4.5 13.5 P-110	10626.66	90.71	4.500	3.920				
	H409360008	OH PACKER 8	10717.37	3.89	5.820	3.875		2154		
		2 JTS OF 4.5 13.5 P-110	10721.26	90.44	4.500	3.920				
	H810090008	2.750 EXP FRAC Sleeve ZONE 8	10811.70	2.40	5.750	2.750	2.698	2286	182	302
		2 JTS OF 4.5 13.5 P-110	10814.10	90.34	4.500	3.920				
	H409360008	OH PACKER 7	10904.44	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	10908.33	135.83	4.500	3.920				
	H810090007	2.688 EXP FRAC Sleeve ZONE 7	11044.16	2.40	5.750	2.688	2.635	2286	173	302
		2 JTS OF 4.5 13.5 P-110	11046.56	90.13	4.500	3.920				
	H409360008	OH PACKER 6	11136.69	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	11140.58	135.03	4.500	3.920				
	H810090006	2.625 EXP FRAC Sleeve ZONE 6	11275.61	2.40	5.750	2.625	2.573	2286	165	302
		2 JTS OF 4.5 13.5 P-110	11278.01	89.40	4.500	3.920				
	H409360008	OH PACKER 5	11367.41	3.89	5.820	3.875		2154		
		2 JTS OF 4.5 13.5 P-110	11371.30	89.77	4.500	3.920				
	H810090005	2.563 EXP FRAC Sleeve ZONE 5	11461.07	2.40	5.750	2.563	2.510	2286	157	302
		2 JTS OF 4.5 13.5 P-110	11463.47	83.38	4.500	3.920				
	H409360008	OH PACKER 4	11546.85	3.89	5.820	3.875		2154		
		2 JTS OF 4.5 13.5 P-110	11550.74	89.31	4.500	3.920				
	H810090004	2.500 EXP FRAC Sleeve ZONE 4	11640.05	2.40	5.750	2.500	2.448	2286	150	302
		3 JTS OF 4.5 13.5 P-110	11642.45	135.10	4.500	3.920				
	H409360008	OH PACKER 3	11777.55	3.89	5.820	3.875		2154		
		3 JTS OF 4.5 13.5 P-110	11781.44	135.57	4.500	3.920				
	H810090003	2.438 EXP FRAC Sleeve ZONE 3	11917.01	2.40	5.750	2.438	2.386	2286	142	302
		2 JTS OF 4.5 13.5 P-110	11919.41	88.99	4.500	3.920				
	H409360008	OH PACKER 2	12008.40	3.89	5.820	3.875		2154		

Company Rep	Josh
Field	0
BOT Service Rep	Dustin Butler
District Location	Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
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Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	7730.00	KOP	7223.00	Open Hole	6.125	Casing Vol. (bbl)	302.2
Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)				Max Drill Out Size	0

[illegible]



Company: Mewbourne Oil
Lease/Well: Henry 8 pm Federal Com No/001H
Location: Sec8 T20S R29E
Rig Name: Patterson 41
State/County: New Mexico/Eddy
Latitude: 32.58, Longitude: -104.09
GRID North is 0.13 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 16 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: henry 8 pm fed com #1h-de_01.ut

Minimum Curvature Method

Report Date/Time: 4/30/2014 / 09:33

VES Survey International

West Texas

432-563-5444

Chris Bankson

Henry 8 PM Federal Com 001H / API 30-015-41955

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	0.50	331.61	100.00	0.39	-0.21	0.39	0.44	331.61	0.50
200.00	0.29	330.06	200.00	1.00	-0.55	1.00	1.14	331.26	0.21
300.00	0.14	291.28	300.00	1.26	-0.79	1.26	1.49	328.09	0.21
400.00	0.41	237.09	399.99	1.11	-1.20	1.11	1.63	312.87	0.35
500.00	0.33	198.50	499.99	0.64	-1.59	0.64	1.71	292.09	0.26
600.00	0.39	98.03	599.99	0.32	-1.34	0.32	1.38	283.60	0.55
700.00	1.25	76.15	699.98	0.54	0.05	0.54	0.54	5.70	0.90
800.00	1.81	75.34	799.94	1.20	2.64	1.20	2.90	65.58	0.56
900.00	2.23	78.45	899.88	1.99	6.08	1.99	6.39	71.88	0.43
1000.00	1.77	75.69	999.82	2.76	9.48	2.76	9.87	73.77	0.47
1100.00	1.19	81.91	1099.79	3.29	12.00	3.29	12.44	74.68	0.59
1200.00	1.17	81.39	1199.77	3.59	14.04	3.59	14.50	75.67	0.02
1300.00	0.50	77.01	1299.75	3.84	15.49	3.84	15.95	76.08	0.67
1400.00	0.12	97.54	1399.75	3.92	16.02	3.92	16.49	76.24	0.39
1500.00	0.20	159.39	1499.75	3.75	16.18	3.75	16.61	76.95	0.17
1600.00	0.40	189.19	1599.75	3.25	16.19	3.25	16.51	78.66	0.25
1700.00	0.85	191.81	1699.74	2.18	15.98	2.18	16.13	82.24	0.45
1800.00	0.83	206.00	1799.73	0.81	15.51	0.81	15.53	87.03	0.21