

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE MALAGA 30MP FED COM 1H
COUNTY EDDY

045-0095

STATE OF NEW MEXICO
DEVIATION REPORT

30 015 41461

203	0.46	4,644	0.60
763	3.00	4,971	0.80
884	3.40	5,658	1.40
1,168	3.70	5,977	1.40
1,232	3.60	6,252	1.60
1,264	3.40	6,613	2.00
1,327	2.80	6,771	1.90
1,422	3.80	6,928	3.10
1,454	3.60	7,400	0.40
1,581	3.10	7,559	0.60
1,613	3.10	7,778	1.10
1,644	2.90		
1,676	3.00		
1,760	2.61		
1,835	2.60		
2,073	2.30		
2,137	1.70		
2,191	2.10		
2,223	2.20		
2,286	2.20		
2,318	2.50		
2,704	3.20		
2,821	2.40		
2,915	2.20		
3,000	1.80		
3,106	1.80		
3,202	1.50		
3,329	1.40		
3,582	1.10		
3,753	0.90		
3,880	0.90		
4,006	0.70		
4,134	0.90		
4,251	0.70		
4,388	0.80		

BY: *Steve Moore*

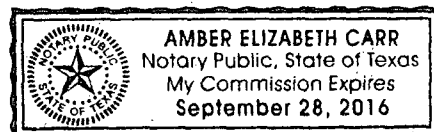
STATE OF TEXAS

COUNTY OF MIDLAND

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

7/24/13, by

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





SURVEY CALCULATION PROGRAM

v1.00.02

OPERATOR:	MEWBOURNE		Supervisors:		
WELL:	MALAGA 30 MP FED COM #1H		CLAYTON THOMAS		
LOCATION:	EDDY COUNTY, NM		RANDALL SKIPWORTH		
JOB NUMBER:	WL-13569	API #:	30-015-41461		
COMMENTS:					
DISPLACEMENT OF 206.93FT AT 196.43 DEGREES			MAG DEC. (-/+)	7.38E	
			GRID CORR. (-/+)		
			TOTAL CORR. (-/+)	7.38E	
DATE: 7-17-13			TIME: 3:00 PM		
MINIMUM CURVATURE CALCULATIONS(SPE-3362)			PROPOSED DIRECTION	100.03	TARGET TRACKING
					TO CENTER
SVY	MD	INC	TRUE		
NUM			AZM	TVD	SECT
					N-S
					E-W
					DLS/
					100
					ABOVE(+)
					RIGHT(+)
					BELOW(-)
					LEFT(-)

TIE										
1	100	0.42	335.12	100.00	-0.21	0.33	-0.15	0.4	-100.0	-0.3
2	200	0.76	243.96	200.00	-0.96	0.37	-0.90	0.9	-200.0	-0.2
3	300	2.67	183.07	299.95	-1.21	-2.24	-1.63	2.4	-300.0	2.5
4	400	2.74	186.93	399.84	-0.80	-6.94	-2.04	0.2	-399.8	7.2
5	500	2.85	192.13	499.72	-0.76	-11.75	-2.85	0.3	-499.7	12.1
6	600	3.01	195.14	599.59	-1.08	-16.71	-4.06	0.2	-599.6	17.2
7	700	2.96	196.70	699.45	-1.62	-21.72	-5.48	0.1	-699.5	22.3
8	800	3.03	203.67	799.32	-2.54	-26.61	-7.29	0.4	-799.3	27.5
9	900	3.03	205.74	899.18	-3.88	-31.41	-9.50	0.1	-899.2	32.6
10	1000	3.10	210.70	999.04	-5.55	-36.12	-12.02	0.3	-999.0	37.7
11	1100	3.25	212.30	1098.88	-7.58	-40.84	-14.92	0.2	-1098.9	42.8
12	1200	3.16	212.67	1198.73	-9.71	-45.56	-17.92	0.1	-1198.7	48.0
13	1300	3.22	208.45	1298.57	-11.66	-50.35	-20.75	0.2	-1298.6	53.2
14	1400	3.21	209.71	1398.41	-13.49	-55.25	-23.47	0.1	-1398.4	58.5
15	1500	2.95	210.54	1498.27	-15.34	-59.89	-26.17	0.3	-1498.3	63.5
16	1600	2.70	211.23	1598.15	-17.09	-64.12	-28.70	0.3	-1598.1	68.1
17	1700	2.60	211.96	1698.04	-18.79	-68.06	-31.12	0.1	-1698.0	72.4
18	1800	2.47	227.10	1797.94	-20.94	-71.45	-33.90	0.7	-1797.9	76.3
19	1900	2.37	213.87	1897.86	-23.07	-74.64	-36.63	0.6	-1897.9	79.9
20	2000	2.02	201.97	1997.78	-24.27	-77.99	-38.44	0.6	-1997.8	83.5
21	2100	2.26	191.28	2097.71	-24.68	-81.56	-39.49	0.5	-2097.7	87.2
22	2200	1.75	193.11	2197.65	-24.80	-84.98	-40.22	0.5	-2197.7	90.7
23	2300	2.10	161.80	2297.60	-24.02	-88.21	-39.99	1.1	-2297.6	93.8
24	2400	2.81	154.12	2397.51	-21.71	-92.15	-38.35	0.8	-2397.5	97.4
25	2500	3.27	151.53	2497.36	-18.50	-96.86	-35.92	0.5	-2497.4	101.6
26	2600	3.18	154.59	2597.21	-15.12	-101.88	-33.37	0.2	-2597.2	106.1
27	2700	2.71	155.42	2697.07	-12.17	-106.53	-31.20	0.5	-2697.1	110.3
28	2800	2.28	157.22	2796.98	-9.75	-110.52	-29.44	0.4	-2797.0	114.0
29	2900	1.89	155.43	2896.91	-7.73	-113.85	-27.99	0.4	-2896.9	117.0
30	3000	1.84	158.05	2996.86	-5.95	-116.84	-26.70	0.1	-2996.9	119.7
31	3100	1.53	156.54	3096.82	-4.36	-119.55	-25.57	0.3	-3096.8	122.2
32	3200	1.61	165.16	3196.78	-3.03	-122.13	-24.68	0.2	-3196.8	124.6
33	3300	0.92	180.26	3296.75	-2.30	-124.30	-24.32	0.8	-3296.8	126.6
34	3400	0.85	180.29	3396.74	-2.04	-125.84	-24.33	0.1	-3396.7	128.2
35	3500	1.19	159.04	3496.73	-1.38	-127.55	-23.96	0.5	-3496.7	129.8
36	3600	0.90	179.72	3596.71	-0.71	-129.31	-23.59	0.5	-3596.7	131.4
37	3700	0.55	202.50	3696.70	-0.67	-130.53	-23.77	0.4	-3696.7	132.7
38	3800	1.08	215.95	3796.69	-1.19	-131.74	-24.50	0.6	-3796.7	134.0
39	3900	0.66	196.04	3896.68	-1.66	-133.06	-25.22	0.5	-3896.7	135.4
40	4000	0.78	199.86	3996.67	-1.83	-134.25	-25.61	0.1	-3996.7	136.7



SURVEY CALCULATION PROGRAM

v1.00.02

OPERATOR:	MEWBOURNE		Supervisors:	
WELL:	MALAGA 30 MP FED COM #1H		CLAYTON THOMAS	
LOCATION:	EDDY COUNTY, NM		RANDALL SKIPWORTH	
JOB NUMBER:	WL-13569	API #:	30-015-41461	
COMMENTS:				
DISPLACEMENT OF 206.93FT AT 196.43 DEGREES			MAG DEC. (-/+)	7.38E
			GRID CORR. (-/+)	
			TOTAL CORR. (-/+)	7.38E
DATE: 7-17-13		TIME: 3:00 PM		

MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION									100.03 TARGET TRACKING	
									TO CENTER	
SVY	MD	INC	TRUE	TVD	SECT	N-S	E-W	DLS/	ABOVE(+)	RIGHT(+)
NUM			AZM					100	BELOW(-)	LEFT(-)
41	4100	0.43	270.26	4096.67	-2.32	-134.89	-26.21	0.8	-4096.7	137.4
42	4200	0.80	214.94	4196.66	-2.98	-135.46	-26.99	0.7	-4196.7	138.1
43	4300	0.80	211.42	4296.65	-3.53	-136.63	-27.75	0.0	-4296.7	139.4
44	4400	0.89	218.29	4396.64	-4.15	-137.83	-28.60	0.1	-4396.6	140.7
45	4500	0.90	222.84	4496.63	-4.95	-139.02	-29.61	0.1	-4496.6	142.1
46	4600	0.68	187.45	4596.62	-5.35	-140.18	-30.22	0.5	-4596.6	143.3
47	4700	0.54	154.01	4696.62	-5.04	-141.20	-30.09	0.4	-4696.6	144.3
48	4800	0.66	167.48	4796.61	-4.55	-142.18	-29.76	0.2	-4796.6	145.2
49	4900	0.94	212.14	4896.60	-4.63	-143.44	-30.07	0.7	-4896.6	146.5
50	5000	1.15	204.95	4996.58	-5.20	-145.04	-30.93	0.2	-4996.6	148.2
51	5100	1.00	233.11	5096.57	-6.05	-146.48	-32.06	0.5	-5096.6	149.8
52	5200	1.24	207.93	5196.55	-6.98	-147.96	-33.26	0.5	-5196.5	151.5
53	5300	0.97	227.59	5296.53	-7.83	-149.48	-34.39	0.5	-5296.5	153.2
54	5400	1.45	240.95	5396.51	-9.33	-150.67	-36.12	0.6	-5396.5	154.7
55	5500	1.54	223.83	5496.47	-11.06	-152.25	-38.16	0.5	-5496.5	156.6
56	5600	1.21	218.33	5596.45	-12.31	-154.05	-39.74	0.4	-5596.4	158.6
57	5700	1.21	217.70	5696.42	-13.30	-155.71	-41.05	0.0	-5696.4	160.5
58	5800	1.43	213.44	5796.40	-14.28	-157.59	-42.38	0.2	-5796.4	162.6
59	5900	1.37	207.71	5896.37	-15.14	-159.69	-43.62	0.2	-5896.4	164.8
60	6000	1.27	202.95	5996.34	-15.75	-161.77	-44.61	0.1	-5996.3	167.1
61	6100	1.02	219.98	6096.32	-16.45	-163.47	-45.61	0.4	-6096.3	168.9
62	6200	1.43	199.25	6196.30	-17.09	-165.33	-46.60	0.6	-6196.3	170.9
63	6300	1.73	203.04	6296.26	-17.63	-167.90	-47.60	0.3	-6296.3	173.6
64	6400	1.77	197.45	6396.2	-18.2	-170.8	-48.7	0.2	-6396.2	176.6
65	6500	1.71	189.08	6496.2	-18.3	-173.7	-49.4	0.3	-6496.2	179.6
66	6600	1.89	192.41	6596.1	-18.4	-176.8	-49.9	0.2	-6596.1	182.8
67	6700	1.87	210.59	6696.1	-19.0	-179.8	-51.1	0.6	-6696.1	186.0
68	6800	2.49	239.06	6796.0	-21.2	-182.3	-53.8	1.2	-6796.0	188.9
69	6900	3.10	240.00	6895.9	-25.0	-184.8	-58.0	0.6	-6895.9	192.1
70	7000	2.02	223.10	6995.8	-28.0	-187.4	-61.6	1.3	-6995.8	195.3
71	7100	1.07	192.80	7095.7	-29.0	-189.6	-63.0	1.2	-7095.7	197.7
72	7200	0.97	166.02	7195.7	-28.7	-191.4	-63.0	0.5	-7195.7	199.4
73	7300	0.38	204.06	7295.7	-28.4	-192.5	-62.9	0.7	-7295.7	200.5
74	7400	0.34	229.84	7395.7	-28.7	-193.0	-63.3	0.2	-7395.7	201.1
75	7500	0.36	124.67	7495.7	-28.6	-193.4	-63.2	0.6	-7495.7	201.4
76	7600	1.42	144.80	7595.7	-27.4	-194.5	-62.3	1.1	-7595.7	202.4
77	7700	3.10	134.03	7695.6	-24.3	-197.4	-59.6	1.7	-7695.6	204.8
78	7730	2.70	133.66	7725.6	-23.1	-198.5	-58.5	1.3	-7725.6	205.6



SURVEY CALCULATION PROGRAM

v1.00.02

OPERATOR:	MEWBOURNE		Supervisors:	
WELL:	MALAGA 30 MP FED COM #1H		CLAYTON THOMAS	
LOCATION:	EDDY COUNTY, NM		RANDALL SKIPWORTH	
JOB NUMBER:	WL-13569	API #:	30-015-41461	
COMMENTS:				
DISPLACEMENT OF 206.93FT AT 196.43 DEGREES			MAG DEC. (-/+)	7.38E
			GRID CORR. (-/+)	
			TOTAL CORR. (-/+)	7.38E
DATE: 7-17-13			TIME: 3:00 PM	
MINIMUM CURVATURE CALCULATIONS(SPE-3362)			PROPOSED DIRECTION	100.03
			TARGET TRACKING TO CENTER	
SVY	TRUE		DLS/	ABOVE(+)
NUM	MD	INC	AZM	TV D
	SECT	N-S	E-W	100
				BELOW(-)
				LEFT(-)

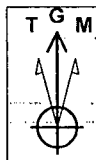


COMPANY: Mewbourne Oil Company
WELL: Malaga 30 MP Federal Com #1H
COUNTY: EDDY COUNTY, NM (NAD27)
DATUM: NAD 1927 (NADCON CONUS)



RIG: Patterson 45
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.38°

OFFICE: 936.582.7296



Azimuths to Grid North
True North: -0.16°
Magnetic North: 7.38°

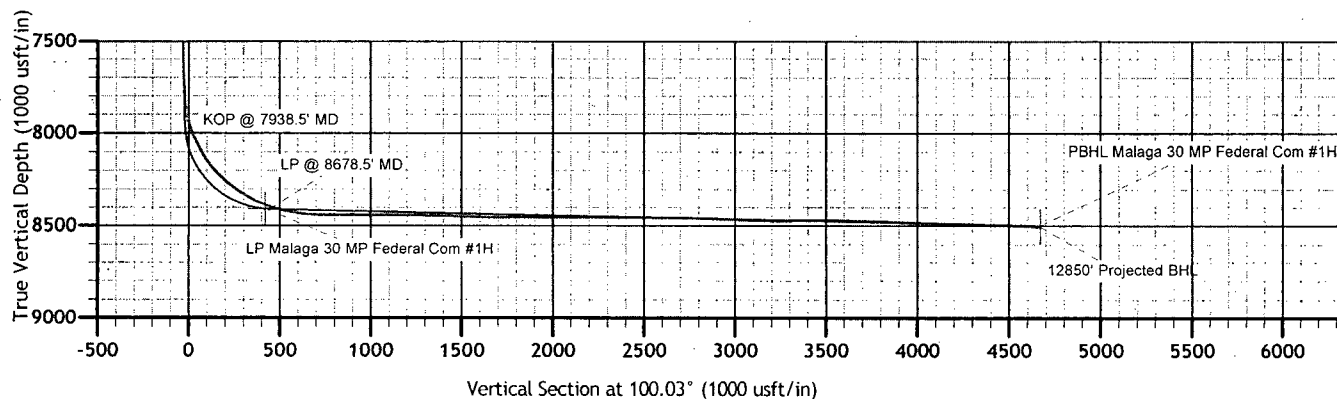
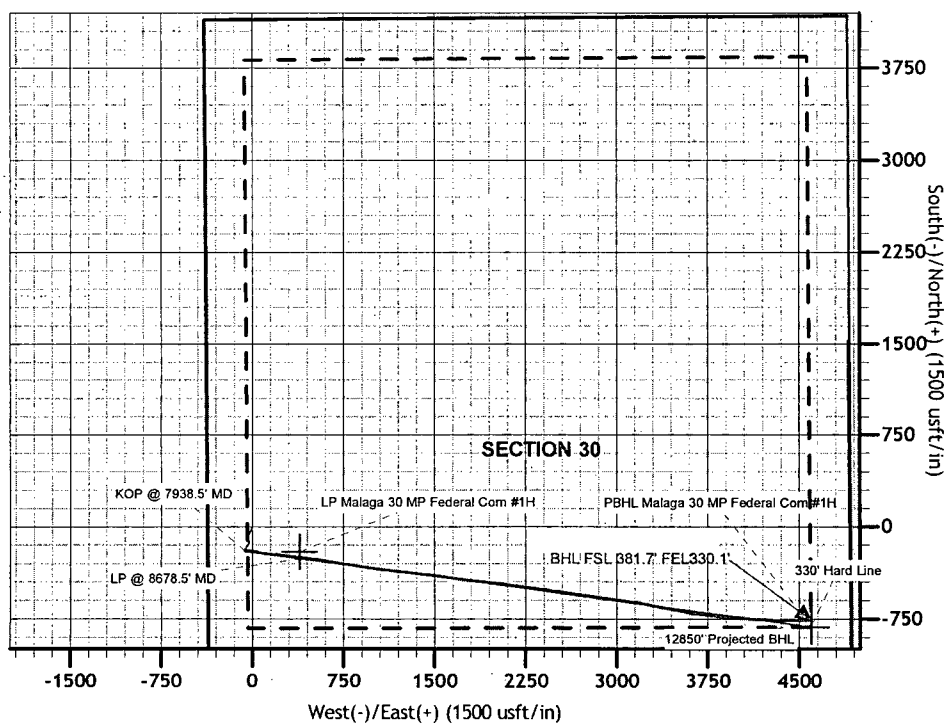
Magnetic Field
Strength: 48340.7nT
Dip Angle: 60.02°
Date: 7/3/2013
Model: IGRF2010

GEODETTIC ZONE: New Mexico East 3001
WELL @ 2940.0usft (Patterson 45)
GROUND ELEVATION: 2920.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	430864.50	593665.10	32° 11' 3.124 N	104° 1' 50.075 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	7730.0	2.70	133.66	7725.6	-198.5	-58.5	0.00	0.00	-23.1	
2	7865.0	0.00	133.66	7860.5	-200.7	-56.2	2.00	180.00	-20.4	
3	7938.5	0.00	133.66	7934.0	-200.7	-56.2	0.00	133.66	-20.4	
4	8678.5	88.80	97.50	8411.4	-261.7	407.2	12.00	97.50	446.6	
5	12907.7	88.80	97.50	8500.0	-813.6	4599.4	0.00	0.00	4670.8	PBHL Malaga 30 MP Federal Com #1H



Mewbourne Oil Company

EDDY COUNTY, NM (NAD27)

SECTION 30

Malaga 30 MP Federal Com #1H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

29 July, 2013

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Malaga 30 MP Federal Com #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2940.0usft (Patterson 45)
Site:	SECTION 30	MD Reference:	WELL @ 2940.0usft (Patterson 45)
Well:	Malaga 30 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM:5000.1 Single User.Db

Project	EDDY COUNTY, NM (NAD27), NM-EAST		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	SECTION 30		
Site Position:		Northing:	430,864.50 usft
From:	Map	Easting:	593,665.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 3.124 N
		Longitude:	104° 1' 50.075 W
		Grid Convergence:	0.16 °

Well	Malaga 30 MP Federal Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 430,864.50 usft
	+E/-W	0.0 usft	Easting: 593,665.10 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 3.124 N
		Longitude:	104° 1' 50.075 W
		Ground Level:	2,920.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/3/2013	7.54	60.02	48,341

Design	Wellbore #1		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	100.03

Survey Program	Date	7/29/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,730.0	Survey #1 (Wellbore #1)	SRG-GYRO-MS	surface readout gyro multishot
7,808.0	12,850.0	Survey #2 (Wellbore #1)	MWD	MWD - Standard

Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.42	335.12	100.0	0.3	-0.2	-0.2	0.42	0.42	0.00
	200.0	0.76	243.96	200.0	0.4	-0.9	-1.0	0.88	0.34	-91.16
	300.0	2.67	183.07	300.0	-2.2	-1.6	-1.2	2.39	1.91	-60.89
	400.0	2.74	186.93	399.8	-6.9	-2.0	-0.8	0.20	0.07	3.86
	500.0	2.85	192.13	499.7	-11.7	-2.8	-0.8	0.28	0.11	5.20
	600.0	3.01	195.14	599.6	-16.7	-4.1	-1.1	0.22	0.16	3.01
	700.0	2.96	196.70	699.5	-21.7	-5.5	-1.6	0.10	-0.05	1.56
	800.0	3.03	203.67	799.3	-26.6	-7.3	-2.5	0.37	0.07	6.97
	900.0	3.03	205.74	899.2	-31.4	-9.5	-3.9	0.11	0.00	2.07

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Malaga 30 MP Federal Com #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2940.0usft (Patterson 45)
Site:	SECTION 30	MD Reference:	WELL @ 2940.0usft (Patterson 45)
Well:	Malaga 30 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM-5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	3.10	210.70	999.0	-36.1	-12.0	-5.6	0.27	0.07	4.96
1,100.0	3.25	212.30	1,098.9	-40.8	-14.9	-7.6	0.17	0.15	1.60
1,200.0	3.16	212.67	1,198.7	-45.6	-17.9	-9.7	0.09	-0.09	0.37
1,300.0	3.22	208.45	1,298.6	-50.3	-20.7	-11.7	0.24	0.06	-4.22
1,400.0	3.21	209.71	1,398.4	-55.2	-23.5	-13.5	0.07	-0.01	1.26
1,500.0	2.95	210.54	1,498.3	-59.9	-26.2	-15.3	0.26	-0.26	0.83
1,600.0	2.70	211.23	1,598.1	-64.1	-28.7	-17.1	0.25	-0.25	0.69
1,700.0	2.60	211.96	1,698.0	-68.1	-31.1	-18.8	0.11	-0.10	0.73
1,800.0	2.47	227.10	1,797.9	-71.5	-33.9	-20.9	0.68	-0.13	15.14
1,900.0	2.37	213.87	1,897.9	-74.6	-36.6	-23.1	0.57	-0.10	-13.23
2,000.0	2.02	201.97	1,997.8	-78.0	-38.4	-24.3	0.57	-0.35	-11.90
2,100.0	2.26	191.28	2,097.7	-81.6	-39.5	-24.7	0.46	0.24	-10.69
2,200.0	1.75	193.11	2,197.7	-85.0	-40.2	-24.8	0.51	-0.51	1.83
2,300.0	2.10	161.80	2,297.6	-88.2	-40.0	-24.0	1.09	0.35	-31.31
2,400.0	2.81	154.12	2,397.5	-92.2	-38.4	-21.7	0.78	0.71	-7.68
2,500.0	3.27	151.53	2,497.4	-96.9	-35.9	-18.5	0.48	0.46	-2.59
2,600.0	3.18	154.59	2,597.2	-101.9	-33.4	-15.1	0.19	-0.09	3.06
2,700.0	2.71	155.42	2,697.1	-106.5	-31.2	-12.2	0.47	-0.47	0.83
2,800.0	2.28	157.22	2,797.0	-110.5	-29.4	-9.7	0.44	-0.43	1.80
2,900.0	1.89	155.43	2,896.9	-113.8	-28.0	-7.7	0.40	-0.39	-1.79
3,000.0	1.84	158.05	2,996.9	-116.8	-26.7	-5.9	0.10	-0.05	2.62
3,100.0	1.53	156.54	3,096.8	-119.6	-25.6	-4.4	0.31	-0.31	-1.51
3,200.0	1.61	165.16	3,196.8	-122.1	-24.7	-3.0	0.25	0.08	8.62
3,300.0	0.92	180.26	3,296.8	-124.3	-24.3	-2.3	0.76	-0.69	15.10
3,400.0	0.85	180.29	3,396.7	-125.8	-24.3	-2.0	0.07	-0.07	0.03
3,500.0	1.19	159.04	3,496.7	-127.6	-24.0	-1.4	0.50	0.34	-21.25
3,600.0	0.90	179.72	3,596.7	-129.3	-23.6	-0.7	0.47	-0.29	20.68
3,700.0	0.55	202.50	3,696.7	-130.5	-23.8	-0.7	0.45	-0.35	22.78
3,800.0	1.08	215.95	3,796.7	-131.7	-24.5	-1.2	0.56	0.53	13.45
3,900.0	0.66	196.04	3,896.7	-133.1	-25.2	-1.7	0.51	-0.42	-19.91
4,000.0	0.78	199.86	3,996.7	-134.3	-25.6	-1.8	0.13	0.12	3.82
4,100.0	0.43	270.26	4,096.7	-134.9	-26.2	-2.3	0.75	-0.35	70.40
4,200.0	0.80	214.94	4,196.7	-135.5	-27.0	-3.0	0.66	0.37	-55.32
4,300.0	0.80	211.42	4,296.7	-136.6	-27.8	-3.5	0.05	0.00	-3.52
4,400.0	0.89	218.29	4,396.6	-137.8	-28.6	-4.2	0.14	0.09	6.87
4,500.0	0.90	222.84	4,496.6	-139.0	-29.6	-4.9	0.07	0.01	4.55
4,600.0	0.68	187.45	4,596.6	-140.2	-30.2	-5.3	0.52	-0.22	-35.39
4,700.0	0.54	154.01	4,696.6	-141.2	-30.1	-5.0	0.38	-0.14	-33.44
4,800.0	0.66	167.48	4,796.6	-142.2	-29.8	-4.5	0.18	0.12	13.47
4,900.0	0.94	212.14	4,896.6	-143.4	-30.1	-4.6	0.66	0.28	44.66
5,000.0	1.15	204.95	4,996.6	-145.0	-30.9	-5.2	0.25	0.21	-7.19
5,100.0	1.00	233.11	5,096.6	-146.5	-32.1	-6.1	0.54	-0.15	28.16
5,200.0	1.24	207.93	5,196.5	-148.0	-33.3	-7.0	0.54	0.24	-25.18

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Malaga 30 MP Federal Com #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2940.0usft (Patterson 45)
Site:	SECTION 30	MD Reference:	WELL @ 2940.0usft (Patterson 45)
Well:	Malaga 30 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.97	227.59	5,296.5	-149.5	-34.4	-7.8	0.46	-0.27	19.66
5,400.0	1.45	240.95	5,396.5	-150.7	-36.1	-9.3	0.55	0.48	13.36
5,500.0	1.54	223.83	5,496.5	-152.3	-38.2	-11.1	0.45	0.09	-17.12
5,600.0	1.21	218.33	5,596.4	-154.0	-39.7	-12.3	0.36	-0.33	-5.50
5,700.0	1.21	217.70	5,696.4	-155.7	-41.0	-13.3	0.01	0.00	-0.63
5,800.0	1.43	213.44	5,796.4	-157.6	-42.4	-14.3	0.24	0.22	-4.26
5,900.0	1.37	207.71	5,896.4	-159.7	-43.6	-15.1	0.15	-0.06	-5.73
6,000.0	1.27	202.95	5,996.3	-161.8	-44.6	-15.8	0.15	-0.10	-4.76
6,100.0	1.02	219.98	6,096.3	-163.5	-45.6	-16.4	0.42	-0.25	17.03
6,200.0	1.43	199.25	6,196.3	-165.3	-46.6	-17.1	0.60	0.41	-20.73
6,300.0	1.73	203.04	6,296.3	-167.9	-47.6	-17.6	0.32	0.30	3.79
6,400.0	1.77	197.45	6,396.2	-170.8	-48.7	-18.2	0.18	0.04	-5.59
6,500.0	1.71	189.08	6,496.2	-173.7	-49.4	-18.3	0.26	-0.06	-8.37
6,600.0	1.89	192.41	6,596.1	-176.8	-49.9	-18.4	0.21	0.18	3.33
6,700.0	1.87	210.59	6,696.1	-179.8	-51.1	-19.0	0.59	-0.02	18.18
6,800.0	2.49	239.06	6,796.0	-182.3	-53.8	-21.2	1.23	0.62	28.47
6,900.0	3.10	240.00	6,895.9	-184.8	-58.0	-25.0	0.61	0.61	0.94
7,000.0	2.02	223.10	6,995.8	-187.4	-61.6	-28.0	1.31	-1.08	-16.90
7,100.0	1.07	192.80	7,095.7	-189.6	-63.0	-29.0	1.22	-0.95	-30.30
7,200.0	0.97	166.02	7,195.7	-191.4	-63.0	-28.7	0.48	-0.10	-26.78
7,300.0	0.38	204.06	7,295.7	-192.5	-62.9	-28.4	0.71	-0.59	38.04
7,400.0	0.34	229.84	7,395.7	-193.0	-63.3	-28.7	0.17	-0.04	25.78
7,500.0	0.36	124.67	7,495.7	-193.4	-63.2	-28.6	0.56	0.02	-105.17
7,600.0	1.42	144.80	7,595.7	-194.5	-62.3	-27.4	1.09	1.06	20.13
7,700.0	3.10	134.03	7,695.6	-197.4	-59.6	-24.3	1.73	1.68	-10.77
7,730.0	2.70	133.66	7,725.6	-198.5	-58.5	-23.1	1.33	-1.33	-1.23
7,808.0	1.90	80.90	7,803.5	-199.6	-55.9	-20.3	2.78	-1.03	-67.64
7,840.0	6.00	82.90	7,835.4	-199.3	-53.7	-18.2	12.82	12.81	6.25
7,872.0	10.30	82.10	7,867.1	-198.7	-49.2	-13.9	13.44	13.44	-2.50
7,904.0	12.20	82.90	7,898.5	-197.8	-43.0	-7.9	5.96	5.94	2.50
7,935.0	14.40	87.70	7,928.7	-197.3	-35.9	-1.0	7.93	7.10	15.48
7,967.0	17.90	93.10	7,959.4	-197.4	-27.1	7.7	11.89	10.94	16.88
7,999.0	21.80	94.70	7,989.5	-198.1	-16.2	18.5	12.30	12.19	5.00
8,030.0	24.30	95.10	8,018.0	-199.2	-4.1	30.6	8.08	8.06	1.29
8,062.0	26.10	96.30	8,047.0	-200.5	9.4	44.2	5.85	5.63	3.75
8,094.0	28.20	101.00	8,075.4	-202.8	23.9	58.8	9.38	6.56	14.69
8,126.0	30.20	103.00	8,103.4	-206.0	39.1	74.4	6.95	6.25	6.25
8,158.0	32.70	103.10	8,130.7	-209.8	55.4	91.1	7.81	7.81	0.31
8,189.0	36.00	100.60	8,156.3	-213.4	72.5	108.6	11.58	10.65	-8.06
8,221.0	40.10	98.00	8,181.5	-216.5	92.0	128.3	13.75	12.81	-8.13
8,253.0	43.00	96.50	8,205.4	-219.2	113.0	149.5	9.58	9.06	-4.69
8,285.0	45.50	96.00	8,228.3	-221.6	135.2	171.7	7.89	7.81	-1.56
8,316.0	48.50	95.80	8,249.5	-224.0	157.8	194.4	9.69	9.68	-0.65

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Malaga 30 MP Federal Com #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2940.0usft (Patterson 45)
Site:	SECTION 30	MD Reference:	WELL @ 2940.0usft (Patterson 45)
Well:	Malaga 30 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,348.0	52.10	95.70	8,269.9	-226.4	182.2	218.9	11.25	11.25	-0.31
8,380.0	54.50	95.70	8,289.0	-229.0	207.8	244.5	7.50	7.50	0.00
8,412.0	55.00	95.70	8,307.5	-231.6	233.8	270.5	1.56	1.56	0.00
8,443.0	56.60	96.10	8,324.9	-234.2	259.3	296.1	5.27	5.16	1.29
8,475.0	59.80	96.50	8,341.8	-237.2	286.3	323.2	10.06	10.00	1.25
8,507.0	63.30	96.90	8,357.0	-240.5	314.3	351.3	10.99	10.94	1.25
8,539.0	65.80	96.40	8,370.8	-243.8	342.9	380.2	7.94	7.81	-1.56
8,570.0	67.70	96.70	8,383.0	-247.1	371.2	408.6	6.19	6.13	0.97
8,602.0	70.30	97.10	8,394.5	-250.7	400.9	438.4	8.21	8.13	1.25
8,634.0	72.00	97.30	8,404.8	-254.4	430.9	468.7	5.35	5.31	0.63
8,666.0	74.10	97.60	8,414.1	-258.4	461.3	499.2	6.62	6.56	0.94
8,698.0	78.00	97.90	8,421.9	-262.6	492.1	530.3	12.22	12.19	0.94
8,729.0	80.20	98.30	8,427.7	-266.9	522.2	560.7	7.21	7.10	1.29
8,761.0	81.50	98.70	8,432.8	-271.6	553.4	592.3	4.25	4.06	1.25
8,867.0	89.60	99.90	8,441.0	-288.6	657.6	697.9	7.72	7.64	1.13
8,931.0	89.60	99.50	8,441.5	-299.4	720.7	761.9	0.62	0.00	-0.63
8,994.0	89.50	98.70	8,442.0	-309.4	782.9	824.8	1.28	-0.16	-1.27
9,058.0	88.90	98.50	8,442.9	-318.9	846.2	888.8	0.99	-0.94	-0.31
9,120.0	89.80	98.40	8,443.6	-328.1	907.5	950.8	1.46	1.45	-0.16
9,183.0	90.70	99.00	8,443.3	-337.6	969.8	1,013.8	1.72	1.43	0.95
9,247.0	89.70	97.70	8,443.1	-346.9	1,033.1	1,077.7	2.56	-1.56	-2.03
9,310.0	89.40	96.70	8,443.6	-354.8	1,095.6	1,140.7	1.66	-0.48	-1.59
9,373.0	89.50	96.50	8,444.2	-362.0	1,158.2	1,203.5	0.35	0.16	-0.32
9,436.0	89.10	95.70	8,444.9	-368.7	1,220.8	1,266.4	1.42	-0.63	-1.27
9,499.0	88.70	96.50	8,446.1	-375.4	1,283.5	1,329.2	1.42	-0.63	1.27
9,563.0	89.00	97.40	8,447.4	-383.1	1,347.0	1,393.1	1.48	0.47	1.41
9,626.0	88.10	95.40	8,449.0	-390.2	1,409.6	1,456.0	3.48	-1.43	-3.17
9,689.0	88.20	96.10	8,451.1	-396.5	1,472.2	1,518.8	1.12	0.16	1.11
9,752.0	88.90	97.60	8,452.6	-404.0	1,534.7	1,581.6	2.63	1.11	2.38
9,816.0	88.70	98.10	8,454.0	-412.7	1,598.1	1,645.6	0.84	-0.31	0.78
9,879.0	90.00	98.30	8,454.7	-421.7	1,660.5	1,708.6	2.09	2.06	0.32
9,942.0	90.40	98.20	8,454.5	-430.8	1,722.8	1,771.5	0.65	0.63	-0.16
10,006.0	89.50	96.60	8,454.5	-439.0	1,786.3	1,835.4	2.87	-1.41	-2.50
10,069.0	89.80	96.30	8,454.9	-446.1	1,848.9	1,898.3	0.67	0.48	-0.48
10,132.0	89.80	96.00	8,455.1	-452.8	1,911.5	1,961.2	0.48	0.00	-0.48
10,195.0	89.80	95.50	8,455.4	-459.1	1,974.2	2,024.0	0.79	0.00	-0.79
10,258.0	90.00	96.50	8,455.5	-465.7	2,036.9	2,086.8	1.62	0.32	1.59
10,322.0	90.50	98.50	8,455.2	-474.1	2,100.3	2,150.8	3.22	0.78	3.13
10,385.0	90.90	98.10	8,454.4	-483.2	2,162.7	2,213.7	0.90	0.63	-0.63
10,448.0	89.50	97.70	8,454.2	-491.8	2,225.1	2,276.7	2.31	-2.22	-0.63
10,511.0	88.80	96.80	8,455.1	-499.8	2,287.5	2,339.6	1.81	-1.11	-1.43
10,575.0	89.10	96.50	8,456.3	-507.2	2,351.1	2,403.5	0.66	0.47	-0.47
10,638.0	89.80	98.30	8,456.9	-515.3	2,413.6	2,466.4	3.07	1.11	2.86
10,701.0	89.90	98.20	8,457.1	-524.3	2,475.9	2,529.4	0.22	0.16	-0.16

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Malaga 30 MP Federal Com #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2940.0usft (Patterson 45)
Site:	SECTION 30	MD Reference:	WELL @ 2940.0usft (Patterson 45)
Well:	Malaga 30 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,765.0	89.50	97.30	8,457.4	-533.0	2,539.3	2,593.3	1.54	-0.63	-1.41
10,828.0	89.10	97.60	8,458.2	-541.1	2,601.8	2,656.3	0.79	-0.63	0.48
10,891.0	88.70	96.80	8,459.4	-549.0	2,664.3	2,719.2	1.42	-0.63	-1.27
10,955.0	88.70	97.30	8,460.8	-556.9	2,727.8	2,783.1	0.78	0.00	0.78
11,018.0	88.70	98.70	8,462.3	-565.6	2,790.2	2,846.0	2.22	0.00	2.22
11,081.0	88.40	98.00	8,463.9	-574.8	2,852.5	2,909.0	1.21	-0.48	-1.11
11,144.0	87.90	97.30	8,465.9	-583.2	2,914.9	2,971.9	1.36	-0.79	-1.11
11,207.0	88.40	98.20	8,467.9	-591.7	2,977.3	3,034.8	1.63	0.79	1.43
11,270.0	88.10	97.30	8,469.9	-600.2	3,039.7	3,097.7	1.51	-0.48	-1.43
11,333.0	88.10	97.60	8,472.0	-608.3	3,102.1	3,160.6	0.48	0.00	0.48
11,397.0	88.50	98.30	8,473.9	-617.2	3,165.4	3,224.6	1.26	0.63	1.09
11,460.0	91.30	101.40	8,474.0	-627.9	3,227.5	3,287.5	6.63	4.44	4.92
11,523.0	91.70	101.20	8,472.3	-640.3	3,289.3	3,350.5	0.71	0.63	-0.32
11,586.0	90.90	99.90	8,470.9	-651.8	3,351.2	3,413.5	2.42	-1.27	-2.06
11,649.0	89.50	101.40	8,470.7	-663.5	3,413.1	3,476.5	3.26	-2.22	2.38
11,712.0	88.70	100.50	8,471.7	-675.4	3,474.9	3,539.5	1.91	-1.27	-1.43
11,776.0	88.70	100.50	8,473.1	-687.1	3,537.8	3,603.4	0.00	0.00	0.00
11,839.0	89.60	100.70	8,474.0	-698.7	3,599.8	3,666.4	1.46	1.43	0.32
11,902.0	88.40	97.50	8,475.1	-708.6	3,662.0	3,729.4	5.42	-1.90	-5.08
11,965.0	88.40	96.60	8,476.9	-716.4	3,724.4	3,792.3	1.43	0.00	-1.43
12,029.0	87.30	95.90	8,479.3	-723.3	3,788.0	3,856.1	2.04	-1.72	-1.09
12,092.0	87.30	95.30	8,482.3	-729.5	3,850.7	3,918.8	0.95	0.00	-0.95
12,155.0	87.40	95.00	8,485.2	-735.1	3,913.3	3,981.6	0.50	0.16	-0.48
12,218.0	88.50	94.60	8,487.4	-740.4	3,976.1	4,044.2	1.86	1.75	-0.63
12,281.0	88.20	93.40	8,489.2	-744.8	4,038.9	4,106.9	1.96	-0.48	-1.90
12,345.0	89.30	93.60	8,490.6	-748.7	4,102.8	4,170.4	1.75	1.72	0.31
12,408.0	89.60	92.80	8,491.2	-752.2	4,165.7	4,233.0	1.36	0.48	-1.27
12,471.0	87.90	92.50	8,492.6	-755.1	4,228.6	4,295.5	2.74	-2.70	-0.48
12,535.0	87.80	91.80	8,495.0	-757.5	4,292.5	4,358.8	1.10	-0.16	-1.09
12,598.0	88.60	91.80	8,497.0	-759.5	4,355.4	4,421.1	1.27	1.27	0.00
12,661.0	88.30	91.10	8,498.7	-761.1	4,418.4	4,483.4	1.21	-0.48	-1.11
12,724.0	88.00	90.30	8,500.7	-761.9	4,481.3	4,545.5	1.36	-0.48	-1.27
12,787.0	88.50	90.70	8,502.7	-762.4	4,544.3	4,607.6	1.02	0.79	0.63
12,806.0	88.70	90.40	8,503.1	-762.6	4,563.3	4,626.4	1.90	1.05	-1.58
12,850.0	88.70	90.40	8,504.1	-762.9	4,607.3	4,669.7	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,850.0	8,504.1	-762.9	4,607.3	12850' Projected BHL

Stryker Directional

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Malaga 30 MP Federal Com #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2940.0usft (Patterson 45)
Site:	SECTION 30	MD Reference:	WELL @ 2940.0usft (Patterson 45)
Well:	Malaga 30 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User.Db

Company Rep	Russell Berryman
Field	Pierce Crossing
BOT Service Rep	John Davis
District Location	Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse			
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,821.00	9,960	6,230			
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,211.62	4,525	10,680			
Botl Liner													
TVD		8,503.00		KOP		7,938.00		Open Hole		6.125	Casing Vol. (bbl)	329.4	
Carry Fluid Weight (ppg)			8.6		Propanl 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		JR Setting Sleeve RH Profile			8608.38							

Operating Company Mewbourne
Well Name & Number Malaga 30 MP Fed Com #1H
Sales Ticket Number 0005682129-1
Date 7/27/2013

Company Rep Russell Berryman
Field Pierce Crossing
BOT Service Rep John Davis
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse			
Casing	7.000	26.00	P-110	6.276	6.151	LT&C	0.03826	8,821.00	9,960	6,230			
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,211.62	4,525	10,680			
Bott Liner													
TVD		8,503.00		KOP		7,938.00		Open Hole		6.125	Casing Vol. (bbl)	329.4	
Carry Fluid Weight (ppg)			8.6		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)
12		2 Joints of 4-1/2-13.5 LTC Casing				10471.56	82.72	5.000	3.920				
	12	2.625 EX Frac Sleeve				10554.28	2.40	5.750		2.525	2286	157	329
		3 Joints of 4-1/2-13.5 LTC Casing				10556.68	125.54	5.000	3.920				
218.4		Baker Open Hole Packer				10682.22	3.89	5.820	3.875		2154		
11		2 Joints of 4-1/2-13.5 LTC Casing				10686.11	86.16	5.000	3.920				
	11	2.500 EX Frac Sleeve				10772.27	2.40	5.750		2.400	2286	142	329
		2 Joint of 4-1/2-13.5 LTC Casing				10774.67	87.05	5.000	3.920				
183.4		Baker Open Hole Packer				10851.72	3.89	5.820	3.875		2154		
10		2 Joints of 4-1/2-13.5 LTC Casing				10865.61	81.26	5.000	3.920				
	10	2.375 EX Frac Sleeve				10946.87	2.40	5.750		2.275	2286	128	329
		3 Joints of 4-1/2-13.5 LTC Casing				10949.27	123.96	5.000	3.920				
215.4		Baker Open Hole Packer				11073.23	3.89	5.820	3.875		2154		
9		2 Joint of 4-1/2-13.5 LTC Casing				11077.12	85.24	5.000	3.920				
	9	2.250 EX Frac Sleeve				11162.36	2.40	5.750		2.150	2286	114	329
		3 Joints of 4-1/2-13.5 LTC Casing				11164.76	124.04	5.000	3.920				
219.5		Baker Open Hole Packer				11288.50	3.89	5.820	3.875		2154		
8		2 Joint of 4-1/2-13.5 LTC Casing				11292.69	84.40	5.000	3.920				
	8	2.125 EX Frac Sleeve				11377.09	2.40	5.750		2.025	2286	101	329
		3 Joints of 4-1/2-13.5 LTC Casing				11379.49	121.75	5.000	3.920				
216.3		Baker Open Hole Packer				11501.24	3.89	5.820	3.875		2154		
7		2 Joint of 4-1/2-13.5 LTC Casing				11505.13	82.41	5.000	3.920				
	7	2.000 EX Frac Sleeve				11587.54	2.40	5.750		1.900	2286	89	329
		3 Joints of 4-1/2-13.5 LTC Casing				11589.94	125.86	5.000	3.920				
218.5		Baker Open Hole Packer				11715.80	3.89	5.820	3.875		2154		
6		2 Joint of 4-1/2-13.5 LTC Casing				11719.69	84.56	5.000	3.920				
	6	1.875 EX Frac Sleeve				11804.25	2.40	5.750		1.775	2286	78	329
		2 Joints of 4-1/2-13.5 LTC Casing				11806.65	81.30	5.000	3.920				
176		Baker Open Hole Packer				11887.95	3.89	5.820	3.875		2154		
5		2 Joints of 4-1/2-13.5 LTC Casing				11891.84	84.61	5.000	3.920				
	5	1.750 EX Frac Sleeve				11976.45	2.40	5.750		1.650	2286	67	329
		3 Joint of 4-1/2-13.5 LTC Casing				11978.85	126.17	5.000	3.920				
221		Baker Open Hole Packer				12106.02	3.89	5.820	3.875		2154		
4		2 Joints of 4-1/2-13.5 LTC Casing				12108.91	81.71	5.000	3.920				
	4	1.625 EX Frac Sleeve				12190.62	2.40	5.750		1.525	2286	57	329
		3 Joints of 4-1/2-13.5 LTC Casing				12193.02	125.08	5.000	3.920				
217		Baker Open Hole Packer				12318.10	3.89	5.820	3.875		2154		
3		2 Joints of 4-1/2-13.5 LTC Casing				12321.99	75.61	5.000	3.920				
	3	1.500 DBL Ball Frac Sleeve				12397.60	2.40	5.750		1.400	2286	48	329

Company Rep	Russell Berryman
Field	Pierce Crossing
BOT Service Rep	John Davis
District Location	Odessa, Texas, USA

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OPERATOR
WELL/LEASE
COUNTY

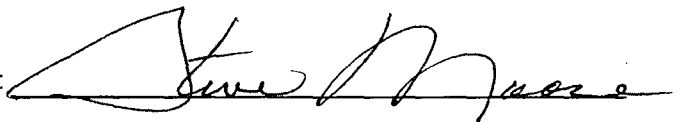
MEWBOURNE OIL COMPANY
MALAGA 30MP FED COM 1H
EDDY

045-0095

STATE OF NEW MEXICO
DEVIATION REPORT

203	0.46	4,644	0.60
763	3.00	4,971	0.80
884	3.40	5,658	1.40
1,168	3.70	5,977	1.40
1,232	3.60	6,252	1.60
1,264	3.40	6,613	2.00
1,327	2.80	6,771	1.90
1,422	3.80	6,928	3.10
1,454	3.60	7,400	0.40
1,581	3.10	7,559	0.60
1,613	3.10	7,778	1.10
1,644	2.90		
1,676	3.00		
1,760	2.61		
1,835	2.60		
2,073	2.30		
2,137	1.70		
2,191	2.10		
2,223	2.20		
2,286	2.20		
2,318	2.50		
2,704	3.20		
2,821	2.40		
2,915	2.20		
3,000	1.80		
3,106	1.80		
3,202	1.50		
3,329	1.40		
3,582	1.10		
3,753	0.90		
3,880	0.90		
4,006	0.70		
4,134	0.90		
4,251	0.70		
4,388	0.80		

BY:

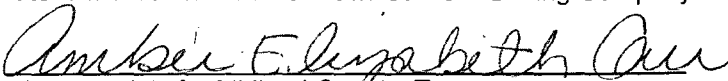


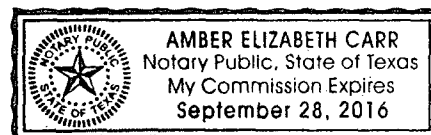
STATE OF TEXAS

COUNTY OF MIDLAND

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

7/24/13, by


Notary Public for Midland County, Texas
My Commission Expires:

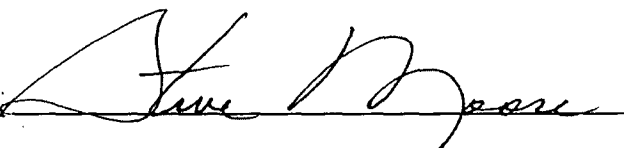


OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE MALAGA 30MP FED COM 1H
COUNTY EDDY

045-0095

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DEVIATION REPORT

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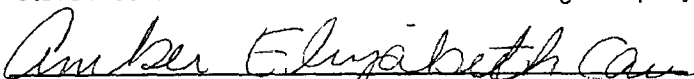
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STATE OF TEXAS

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Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

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