

Results of Directional Survey

API number:	30-025-41775		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	SCHARB 10 B30B STATE # 1H

surface	ULSTR:	O	10	T 19S	R 34E
				185 FSL	1980 FEL

BH Loc	ULSTR:	B	10	T 19S	R 34E
15180	MD	10697.1	TVD	338 FNL	2298 FEL
				4942 FSL	

Top Perf/OH	ULSTR:	O	10	T 19S	R 34E
10889	MD	10684.4	TVD	668 FSL	2007 FEL

Bot Perf/OH	ULSTR:	B	10	T 19S	R 34E
15062	MD	10701.3	TVD	456 FNL	2285 FEL
				4824 FSL	

	MD	N/S	E/W	VD
	10874	469.20	-26.30	10679.1
TOP PERFS/OH	10889	483.26	-26.77	10684.35
	10906	499.20	-27.30	10690.30
	15015	4592.70	-299.50	10702.20
BOT PERFS/OH	15062	4639.40	-304.65	10701.30
	15078	4655.30	-306.40	10701.00

NEXT TO LAST	15130	4707.00	-312.10	10699.20
LAST READING	15180	4756.60	-317.60	10697.10
TD	15180	4756.60	-317.60	10697.10

Surface Location	185	FS	1980	FE
Projected BHL	4942	FS	2298	FE
Location of				
Top Perfs/OH	668	FS	2007	FE
Bottom Perfs/OH	4824	FS	2285	FE

SUMMARY of Subsurface Locations

Surface Location	O-10-19S-34E	185	FS	1980	FE	Vert. Depth
Top Perfs/OH	O-10-19S-34E	668	FS	2007	FE	10684.35
Bottom Perfs/OH	B-10-19S-34E	4824	FS	2285	FE	10701.30
Projected TD	B-10-19S-34E	4942	FS	2298	FE	10697.10

SEP 05 2014

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE Scharb 10 B3OB 1H
COUNTY LEA

075-0107

STATE OF NEW MEXICO
DEVIATION REPORT

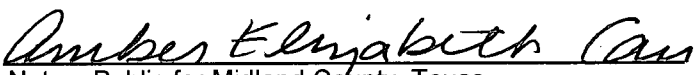
394	1.68
803	1.27
1,271	1.11
1,549	0.89
2,079	1.20
2,460	0.90
2,587	2.30
2,700	0.70
2,827	1.46
2,954	2.84
3,017	3.07
3,031	2.60
3,095	2.90
3,316	2.58
3,443	2.49
3,733	1.60
4,145	2.00
4,335	1.20
4,747	0.60
5,158	0.50
5,538	0.40
5,950	1.10
6,362	0.90
6,775	0.60
7,187	0.40
7,598	0.70
8,009	1.30
8,421	1.30
8,865	1.90
9,515	1.90

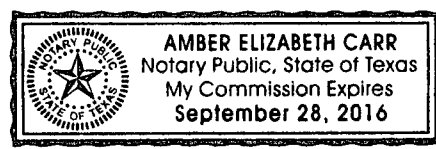
STATE OF TEXAS
COUNTY OF MIDLAND

BY:  _____

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

8/13/14, by

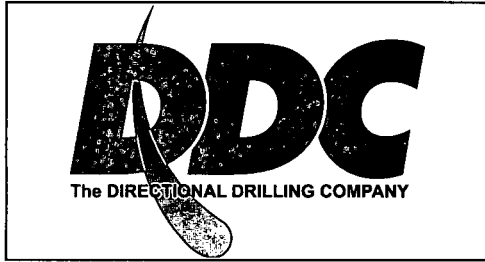

Notary Public for Midland County, Texas
My Commission Expires:



Company Name: Mewbourne Oil Co
 Scharb 10 B30B State #1H
 Lea County, New Mexico
 Rig: Patterson #75
 Created By: Jerry Arsenault
 Date: 07/29/2014

Scharb 10 B30B State #1H
 Lea County, New Mexico
 Quote 140651 & WT-140586
 Design #2

Mewbourne Oil Company



Azimuths to Grid North

Magnetic North: 6.81°

Magnetic Field
 Strength: 48583.3snT

Dip Angle: 60.53°
 Date: 6/10/2014
 Model: IGRF2010

PROJECT DETAILS: Lea County, New Mexico

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

WELL DETAILS: Scharb 10 B30B State #1H

Ground Level: 3889.0
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.0 0.0 607606.90 742441.90 32° 40' 4.579 N 103° 32' 43.782 W

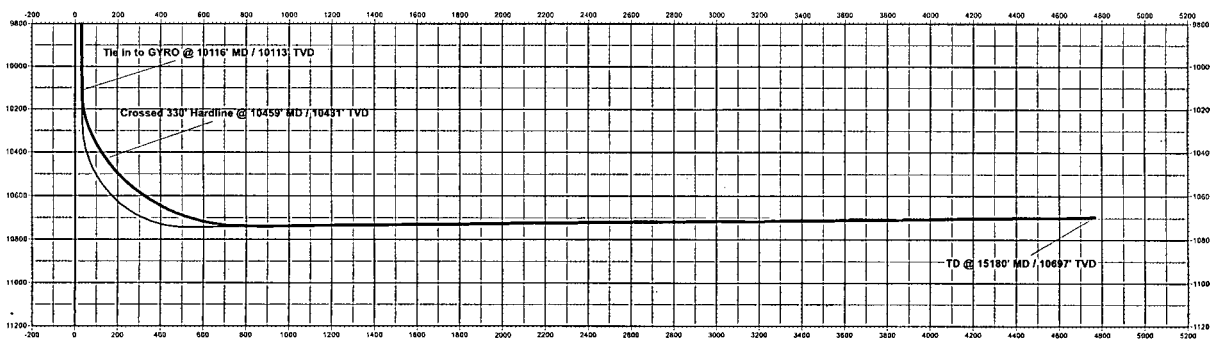
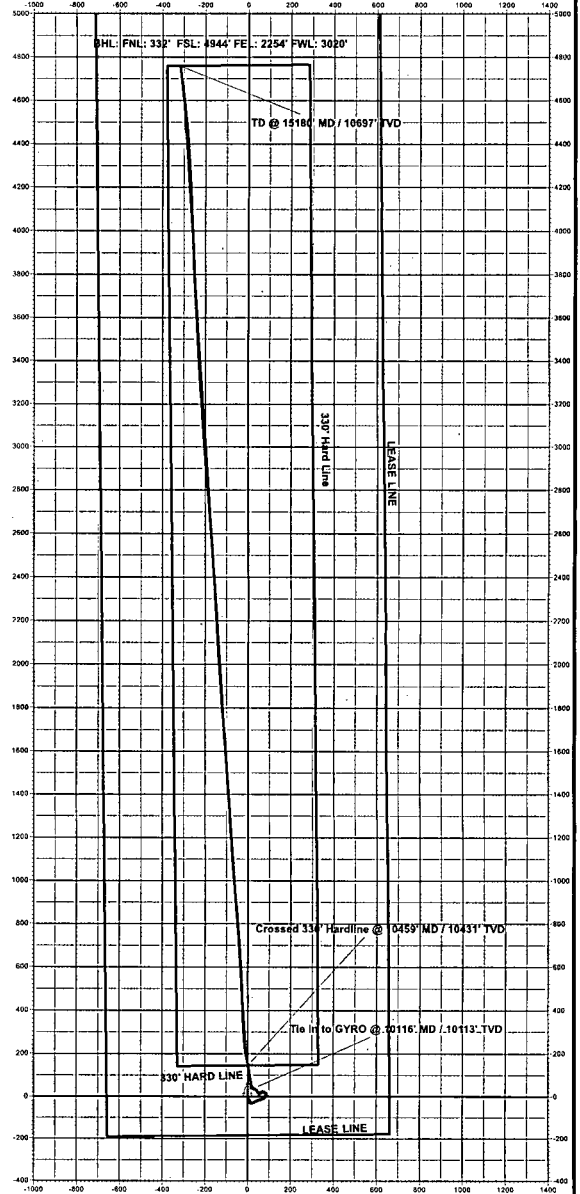
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PSH: Scharb 10 B30B State #1H D#110998.0	4758.6	-313.2	612365.55	742128.74	32° 40' 51.687 N	103° 32' 47.933 W	

- plan hits target center

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VStc	Departure	Annotation
10116.0	2.19	291.12	10113.2	36.3	26.7	34.5	204.5	Tie In to GYRO @ 10116' MD / 10113' TVD
10458.9	36.29	349.85	10430.7	144.9	1.7	144.5	317.5	Crossed 330' Hardline @ 10459' MD / 10431' TVD
15180.0	92.40	353.60	10697.1	4756.6	-317.6	4767.2	4941.5	TD @ 15180' MD / 10697' TVD



Vertical Section at 356.23° (200 usft/in)

Mewbourne Oil Co

Lea County, New Mexico

Sec 10, T19S, T34E

Scharb 10 B3OB State #1H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

28 July, 2014



DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Scharb 10 B3OB State #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3909.0usft (Patterson #75)
Site:	Sec 10, T19S, T34E	MD Reference:	Well @ 3909.0usft (Patterson #75)
Well:	Scharb 10 B3OB State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Lea County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 10, T19S, T34E				
Site Position:	Northing:	607,606.90 usft	Latitude:	32° 40' 4.579 N	
From:	Map	Easting:	742,441.90 usft	Longitude:	103° 32' 43.782 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	Scharb 10 B3OB State #1H					
Well Position	+N/-S	0.0 usft	Northing:	607,606.90 usft	Latitude:	32° 40' 4.579 N
	+E/-W	0.0 usft	Easting:	742,441.90 usft	Longitude:	103° 32' 43.782 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,889.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/10/2014	7.24	60.53	48,583

Design	Wellbore #1				
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	356.23	

Survey Program	Date 7/28/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	10,116.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro	
10,145.0	15,180.0	MWD (Wellbore #1)	MWD default	MWD - Standard	

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	0.11	256.10	100.0	0.0	-0.1	0.0	0.11	0.11	0.00
200.0	0.11	289.03	200.0	0.0	-0.3	0.0	0.06	0.00	32.93
300.0	0.09	256.94	300.0	0.0	-0.4	0.0	0.06	-0.02	-32.09
400.0	0.25	199.08	400.0	-0.2	-0.6	-0.2	0.22	0.16	-57.86
500.0	0.56	167.10	500.0	-0.9	-0.6	-0.9	0.37	0.31	-31.98
600.0	0.70	163.42	600.0	-2.0	-0.3	-1.9	0.15	0.14	-3.68
700.0	0.73	154.04	700.0	-3.1	0.2	-3.1	0.12	0.03	-9.38
800.0	0.67	147.43	800.0	-4.2	0.8	-4.2	0.10	-0.06	-6.61
900.0	0.55	140.15	900.0	-5.1	1.4	-5.1	0.14	-0.12	-7.28

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Scharb 10 B3OB State #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3909.0usft (Patterson #75)
Site:	Sec 10, T19S, T34E	MD Reference:	Well @ 3909.0usft (Patterson #75)
Well:	Scharb 10 B3OB State #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	0.49	144.57	1,000.0	-5.8	2.0	-5.9	0.07	-0.06	4.42	
1,100.0	0.56	148.98	1,100.0	-6.5	2.5	-6.7	0.08	0.07	4.41	
1,200.0	0.92	161.00	1,200.0	-7.7	3.0	-7.9	0.39	0.36	12.02	
1,300.0	1.12	163.95	1,299.9	-9.4	3.5	-9.6	0.21	0.20	2.95	
1,400.0	1.22	154.61	1,399.9	-11.3	4.2	-11.6	0.21	0.10	-9.34	
1,500.0	1.07	148.17	1,499.9	-13.1	5.2	-13.4	0.20	-0.15	-6.44	
1,600.0	1.13	143.40	1,599.9	-14.7	6.3	-15.0	0.11	0.06	-4.77	
1,700.0	1.15	142.18	1,699.9	-16.2	7.5	-16.7	0.03	0.02	-1.22	
1,800.0	1.09	147.43	1,799.8	-17.8	8.6	-18.4	0.12	-0.06	5.25	
1,900.0	1.23	155.74	1,899.8	-19.6	9.5	-20.2	0.22	0.14	8.31	
2,000.0	1.26	142.84	1,999.8	-21.5	10.6	-22.1	0.28	0.03	-12.90	
2,100.0	0.79	136.77	2,099.8	-22.8	11.8	-23.6	0.48	-0.47	-6.07	
2,200.0	0.68	158.82	2,199.8	-23.9	12.5	-24.7	0.30	-0.11	22.05	
2,300.0	0.89	159.87	2,299.8	-25.2	12.9	-26.0	0.21	0.21	1.05	
2,400.0	0.85	147.38	2,399.8	-26.5	13.6	-27.4	0.19	-0.04	-12.49	
2,500.0	0.64	151.69	2,499.7	-27.7	14.3	-28.5	0.22	-0.21	4.31	
2,600.0	0.94	149.09	2,599.7	-28.9	15.0	-29.8	0.30	0.30	-2.60	
2,700.0	0.66	133.88	2,699.7	-30.0	15.8	-30.9	0.35	-0.28	-15.21	
2,800.0	1.06	74.75	2,799.7	-30.1	17.1	-31.2	0.92	0.40	-59.13	
2,900.0	2.31	73.95	2,899.7	-29.3	19.9	-30.6	1.25	1.25	-0.80	
3,000.0	2.56	68.22	2,999.6	-27.9	23.9	-29.4	0.35	0.25	-5.73	
3,100.0	2.60	67.02	3,099.5	-26.2	28.1	-28.0	0.07	0.04	-1.20	
3,200.0	2.67	71.36	3,199.4	-24.6	32.4	-26.7	0.21	0.07	4.34	
3,300.0	2.75	63.83	3,299.3	-22.8	36.8	-25.1	0.36	0.08	-7.53	
3,400.0	2.30	62.00	3,399.2	-20.8	40.7	-23.4	0.46	-0.45	-1.83	
3,500.0	2.11	69.32	3,499.1	-19.2	44.2	-22.0	0.34	-0.19	7.32	
3,600.0	1.95	65.71	3,599.0	-17.8	47.5	-20.9	0.20	-0.16	-3.61	
3,700.0	1.69	60.38	3,699.0	-16.4	50.3	-19.7	0.31	-0.26	-5.33	
3,800.0	1.69	72.55	3,798.9	-15.2	53.0	-18.7	0.36	0.00	12.17	
3,900.0	2.07	78.62	3,898.9	-14.4	56.2	-18.1	0.43	0.38	6.07	
4,000.0	1.99	79.80	3,998.8	-13.8	59.6	-17.7	0.09	-0.08	1.18	
4,100.0	2.20	75.63	4,098.7	-13.0	63.2	-17.1	0.26	0.21	-4.17	
4,200.0	1.76	73.23	4,198.7	-12.1	66.5	-16.4	0.45	-0.44	-2.40	
4,300.0	1.47	74.76	4,298.6	-11.3	69.2	-15.8	0.29	-0.29	1.53	
4,400.0	1.46	69.17	4,398.6	-10.5	71.7	-15.2	0.14	-0.01	-5.59	
4,500.0	1.03	47.50	4,498.6	-9.4	73.5	-14.3	0.63	-0.43	-21.67	
4,600.0	0.86	59.06	4,598.6	-8.4	74.8	-13.3	0.25	-0.17	11.56	
4,700.0	0.76	32.41	4,698.6	-7.5	75.8	-12.5	0.39	-0.10	-26.65	
4,800.0	0.51	44.10	4,798.6	-6.6	76.5	-11.6	0.28	-0.25	11.69	
4,900.0	0.64	51.90	4,898.6	-6.0	77.2	-11.0	0.15	0.13	7.80	
5,000.0	0.51	20.92	4,998.6	-5.2	77.8	-10.3	0.33	-0.13	-30.98	
5,100.0	0.71	41.24	5,098.5	-4.3	78.4	-9.5	0.29	0.20	20.32	
5,200.0	0.52	15.09	5,198.5	-3.4	78.9	-8.6	0.33	-0.19	-26.15	

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Scharb 10 B3OB State #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3909.0usft (Patterson #75)
Site:	Sec 10, T19S, T34E	MD Reference:	Well @ 3909.0usft (Patterson #75)
Well:	Scharb 10 B3OB State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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	0.48	56.67	5,298.5	-2.7	79.4	-8.0	0.36	-0.04	41.58
5,400.0	0.42	27.63	5,398.5	-2.2	79.9	-7.4	0.23	-0.06	-29.04
5,500.0	0.43	31.09	5,498.5	-1.5	80.3	-6.8	0.03	0.01	3.46
5,600.0	0.67	45.39	5,598.5	-0.8	80.9	-6.1	0.27	0.24	14.30
5,700.0	0.62	29.41	5,698.5	0.1	81.6	-5.3	0.19	-0.05	-15.98
5,800.0	1.01	50.81	5,798.5	1.1	82.5	-4.3	0.49	0.39	21.40
5,900.0	0.86	52.62	5,898.5	2.1	83.8	-3.4	0.15	-0.15	1.81
6,000.0	1.01	34.83	5,998.5	3.3	84.9	-2.3	0.32	0.15	-17.79
6,100.0	0.87	52.36	6,098.5	4.5	86.0	-1.2	0.32	-0.14	17.53
6,200.0	0.89	19.30	6,198.5	5.7	86.9	0.0	0.50	0.02	-33.06
6,300.0	0.61	15.93	6,298.5	6.9	87.3	1.2	0.28	-0.28	-3.37
6,400.0	0.74	35.04	6,398.4	8.0	87.8	2.2	0.26	0.13	19.11
6,500.0	0.72	29.00	6,498.4	9.0	88.5	3.2	0.08	-0.02	-6.04
6,600.0	0.50	356.36	6,598.4	10.0	88.7	4.2	0.40	-0.22	-32.64
6,700.0	0.80	355.41	6,698.4	11.2	88.7	5.3	0.30	0.30	-0.95
6,800.0	0.39	346.37	6,798.4	12.2	88.5	6.3	0.42	-0.41	-9.04
6,900.0	0.55	348.93	6,898.4	13.0	88.3	7.1	0.16	0.16	2.56
7,000.0	0.36	316.83	6,998.4	13.7	88.0	7.9	0.31	-0.19	-32.10
7,100.0	0.45	338.12	7,098.4	14.3	87.7	8.5	0.17	0.09	21.29
7,200.0	0.50	300.53	7,198.4	14.9	87.2	9.1	0.31	0.05	-37.59
7,300.0	0.42	270.21	7,298.4	15.1	86.4	9.4	0.25	-0.08	-30.32
7,400.0	0.32	305.15	7,398.4	15.2	85.8	9.6	0.24	-0.10	34.94
7,500.0	0.53	290.35	7,498.4	15.6	85.2	9.9	0.24	0.21	-14.80
7,600.0	0.64	269.62	7,598.4	15.7	84.2	10.2	0.24	0.11	-20.73
7,700.0	0.45	281.25	7,698.4	15.8	83.2	10.3	0.22	-0.19	11.63
7,800.0	0.77	308.86	7,798.4	16.3	82.3	10.9	0.43	0.32	27.61
7,900.0	0.72	288.00	7,898.4	16.9	81.2	11.5	0.27	-0.05	-20.86
8,000.0	1.10	310.89	7,998.4	17.7	79.9	12.4	0.52	0.38	22.89
8,100.0	1.13	302.07	8,098.3	18.9	78.3	13.7	0.17	0.03	-8.82
8,200.0	1.37	299.14	8,198.3	20.0	76.4	14.9	0.25	0.24	-2.93
8,300.0	1.62	300.62	8,298.3	21.3	74.2	16.4	0.25	0.25	1.48
8,400.0	1.29	284.19	8,398.3	22.3	71.9	17.5	0.53	-0.33	-16.43
8,500.0	1.17	270.25	8,498.2	22.6	69.8	17.9	0.32	-0.12	-13.94
8,600.0	0.97	245.93	8,598.2	22.2	68.0	17.7	0.49	-0.20	-24.32
8,700.0	2.87	229.23	8,698.2	20.3	65.3	15.9	1.96	1.90	-16.70
8,800.0	3.59	225.17	8,798.0	16.4	61.2	12.4	0.76	0.72	-4.06
8,900.0	2.52	245.85	8,897.9	13.3	56.9	9.5	1.52	-1.07	20.68
9,000.0	1.19	293.12	8,997.8	12.8	54.0	9.2	1.92	-1.33	47.27
9,100.0	1.62	317.96	9,097.8	14.3	52.1	10.8	0.74	0.43	24.84
9,200.0	1.44	320.07	9,197.7	16.3	50.3	12.9	0.19	-0.18	2.11
9,300.0	1.66	327.12	9,297.7	18.5	48.7	15.2	0.29	0.22	7.05
9,400.0	1.95	331.07	9,397.7	21.2	47.1	18.0	0.32	0.29	3.95
9,500.0	2.21	329.30	9,497.6	24.3	45.3	21.3	0.27	0.26	-1.77

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Scharb 10 B3OB State #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3909.0usft (Patterson #75)
Site:	Sec 10, T19S, T34E	MD Reference:	Well @ 3909.0usft (Patterson #75)
Well:	Scharb 10 B3OB State #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)	
9,600.0	2.27	323.87	9,597.5	27.6	43.2	24.7	0.22	0.06	-5.43	
9,700.0	1.95	311.73	9,697.4	30.3	40.7	27.6	0.55	-0.32	-12.14	
9,800.0	1.93	300.65	9,797.4	32.3	38.0	29.7	0.38	-0.02	-11.08	
9,900.0	2.14	285.70	9,897.3	33.7	34.8	31.3	0.57	0.21	-14.95	
10,000.0	2.31	287.36	9,997.2	34.8	31.0	32.6	0.18	0.17	1.66	
10,100.0	2.29	292.13	10,097.2	36.1	27.3	34.2	0.19	-0.02	4.77	
10,116.0	2.19	291.12	10,113.2	36.3	26.7	34.5	0.67	-0.63	-6.31	
Tie in to GYRO @ 10116' MD / 10113' TVD										
10,145.0	2.80	347.30	10,142.1	37.2	26.0	35.4	8.31	2.10	193.72	
10,177.0	7.30	311.40	10,174.0	39.3	24.3	37.7	16.54	14.06	-112.19	
10,209.0	12.30	328.30	10,205.5	43.6	21.0	42.1	17.87	15.63	52.81	
10,240.0	15.50	340.60	10,235.6	50.3	17.9	49.0	14.00	10.32	39.68	
10,272.0	18.30	347.10	10,266.2	59.2	15.3	58.1	10.54	8.75	20.31	
10,303.0	21.70	348.20	10,295.4	69.6	13.1	68.6	11.03	10.97	3.55	
10,335.0	24.80	349.80	10,324.8	82.0	10.7	81.1	9.89	9.69	5.00	
10,367.0	27.90	352.60	10,353.4	96.0	8.5	95.3	10.43	9.69	8.75	
10,399.0	31.50	352.80	10,381.2	111.8	6.5	111.1	11.25	11.25	0.63	
10,430.0	34.40	352.20	10,407.2	128.5	4.3	127.9	9.41	9.35	-1.94	
10,458.8	36.29	349.85	10,430.7	144.9	1.7	144.5	8.08	6.55	-8.17	
Crossed 330' Hardline @ 10459' MD / 10431' TVD										
10,462.0	36.50	349.60	10,433.3	146.8	1.4	146.4	8.08	6.64	-7.76	
10,494.0	38.60	348.40	10,458.7	165.9	-2.4	165.7	6.95	6.56	-3.75	
10,526.0	40.90	348.50	10,483.3	186.0	-6.5	186.0	7.19	7.19	0.31	
10,557.0	43.90	351.20	10,506.2	206.6	-10.1	206.8	11.32	9.68	8.71	
10,589.0	47.00	353.60	10,528.6	229.2	-13.1	229.5	11.06	9.69	7.50	
10,621.0	50.70	355.60	10,549.7	253.1	-15.4	253.6	12.48	11.56	6.25	
10,653.0	53.70	356.30	10,569.3	278.4	-17.2	278.9	9.53	9.38	2.19	
10,684.0	55.80	355.70	10,587.2	303.6	-18.9	304.2	6.96	6.77	-1.94	
10,716.0	57.00	355.70	10,604.9	330.2	-20.9	330.9	3.75	3.75	0.00	
10,748.0	58.30	357.90	10,622.0	357.2	-22.4	357.9	7.09	4.06	6.88	
10,779.0	59.90	357.90	10,637.9	383.8	-23.4	384.5	5.16	5.16	0.00	
10,811.0	63.00	357.90	10,653.2	411.8	-24.4	412.6	9.69	9.69	0.00	
10,843.0	65.80	358.40	10,667.1	440.7	-25.4	441.4	8.86	8.75	1.56	
10,874.0	68.40	357.70	10,679.1	469.2	-26.3	469.9	8.64	8.39	-2.26	
10,906.0	70.60	358.50	10,690.3	499.2	-27.3	499.9	7.26	6.88	2.50	
10,938.0	72.90	358.00	10,700.3	529.6	-28.3	530.3	7.34	7.19	-1.56	
10,970.0	74.90	356.60	10,709.2	560.3	-29.7	561.0	7.53	6.25	-4.38	
11,001.0	76.80	355.60	10,716.8	590.2	-31.8	591.1	6.88	6.13	-3.23	
11,033.0	78.30	355.90	10,723.7	621.4	-34.1	622.3	4.78	4.69	0.94	
11,065.0	81.30	355.60	10,729.4	652.8	-36.4	653.8	9.42	9.38	-0.94	
11,097.0	83.60	355.90	10,733.6	684.4	-38.8	685.5	7.25	7.19	0.94	
11,129.0	86.20	356.10	10,736.4	716.2	-41.0	717.4	8.15	8.13	0.63	
11,148.0	87.50	355.40	10,737.4	735.2	-42.4	736.4	7.77	6.84	-3.68	
11,180.0	88.20	355.60	10,738.6	767.0	-44.9	768.3	2.27	2.19	0.63	

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Scharb 10 B3OB State #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3909.0usft (Patterson #75)
Site:	Sec 10, T19S, T34E	MD Reference:	Well @ 3909.0usft (Patterson #75)
Well:	Scharb 10 B3OB State #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)	
11,212.0	88.70	355.40	10,739.5	798.9	-47.4	800.3	1.68	1.56	-0.63	
11,275.0	89.60	355.20	10,740.4	861.7	-52.6	863.3	1.46	1.43	-0.32	
11,338.0	90.60	355.40	10,740.3	924.5	-57.7	926.3	1.62	1.59	0.32	
11,402.0	91.50	355.00	10,739.2	988.3	-63.1	990.3	1.54	1.41	-0.63	
11,466.0	90.70	355.90	10,737.9	1,052.0	-68.2	1,054.2	1.88	-1.25	1.41	
11,529.0	90.90	355.90	10,737.1	1,114.9	-72.7	1,117.2	0.32	0.32	0.00	
11,593.0	90.50	356.80	10,736.3	1,178.7	-76.7	1,181.2	1.54	-0.63	1.41	
11,656.0	91.40	357.00	10,735.2	1,241.6	-80.1	1,244.2	1.46	1.43	0.32	
11,720.0	90.50	356.40	10,734.2	1,305.5	-83.8	1,308.2	1.69	-1.41	-0.94	
11,783.0	89.30	356.10	10,734.3	1,368.4	-87.9	1,371.2	1.96	-1.90	-0.48	
11,846.0	90.20	356.40	10,734.6	1,431.3	-92.1	1,434.2	1.51	1.43	0.48	
11,909.0	91.50	355.70	10,733.6	1,494.1	-96.4	1,497.2	2.34	2.06	-1.11	
11,972.0	90.80	356.10	10,732.4	1,556.9	-100.9	1,560.2	1.28	-1.11	0.63	
12,036.0	90.70	355.70	10,731.5	1,620.7	-105.5	1,624.2	0.64	-0.16	-0.63	
12,099.0	89.90	355.40	10,731.2	1,683.6	-110.4	1,687.2	1.36	-1.27	-0.48	
12,163.0	91.10	355.00	10,730.6	1,747.3	-115.7	1,751.2	1.98	1.88	-0.63	
12,226.0	90.50	355.70	10,729.8	1,810.1	-120.8	1,814.1	1.46	-0.95	1.11	
12,289.0	90.80	355.40	10,729.0	1,872.9	-125.7	1,877.1	0.67	0.48	-0.48	
12,352.0	90.60	356.10	10,728.3	1,935.7	-130.4	1,940.1	1.16	-0.32	1.11	
12,416.0	91.20	356.30	10,727.3	1,999.6	-134.6	2,004.1	0.99	0.94	0.31	
12,479.0	90.50	356.80	10,726.3	2,062.5	-138.4	2,067.1	1.37	-1.11	0.79	
12,543.0	91.60	356.80	10,725.2	2,126.4	-142.0	2,131.1	1.72	1.72	0.00	
12,606.0	90.60	355.90	10,723.9	2,189.2	-146.0	2,194.1	2.14	-1.59	-1.43	
12,670.0	89.30	356.80	10,724.0	2,253.1	-150.1	2,258.1	2.47	-2.03	1.41	
12,733.0	90.20	357.00	10,724.3	2,316.0	-153.5	2,321.1	1.46	1.43	0.32	
12,796.0	91.50	356.60	10,723.3	2,378.9	-157.0	2,384.1	2.16	2.06	-0.63	
12,859.0	91.10	356.60	10,721.9	2,441.8	-160.7	2,447.0	0.63	-0.63	0.00	
12,922.0	89.80	356.30	10,721.4	2,504.6	-164.6	2,510.0	2.12	-2.06	-0.48	
12,985.0	90.20	355.60	10,721.4	2,567.5	-169.1	2,573.0	1.28	0.63	-1.11	
13,049.0	91.40	355.20	10,720.5	2,631.3	-174.2	2,637.0	1.98	1.88	-0.63	
13,112.0	90.80	355.00	10,719.3	2,694.0	-179.6	2,700.0	1.00	-0.95	-0.32	
13,175.0	89.20	355.00	10,719.3	2,756.8	-185.1	2,763.0	2.54	-2.54	0.00	
13,239.0	90.00	355.00	10,719.8	2,820.5	-190.7	2,827.0	1.25	1.25	0.00	
13,302.0	91.50	355.40	10,718.9	2,883.3	-195.9	2,890.0	2.46	2.38	0.63	
13,366.0	91.10	355.70	10,717.5	2,947.1	-200.9	2,953.9	0.78	-0.63	0.47	
13,429.0	89.00	356.40	10,717.4	3,009.9	-205.2	3,016.9	3.51	-3.33	1.11	
13,492.0	89.30	356.40	10,718.4	3,072.8	-209.2	3,079.9	0.48	0.48	0.00	
13,556.0	90.10	356.30	10,718.7	3,136.7	-213.3	3,143.9	1.26	1.25	-0.16	
13,619.0	91.20	356.30	10,718.0	3,199.5	-217.3	3,206.9	1.75	1.75	0.00	
13,683.0	92.20	356.30	10,716.1	3,263.4	-221.5	3,270.9	1.56	1.56	0.00	
13,746.0	91.30	357.00	10,714.2	3,326.2	-225.1	3,333.9	1.81	-1.43	1.11	
13,809.0	89.60	357.00	10,713.7	3,389.2	-228.4	3,396.8	2.70	-2.70	0.00	
13,872.0	89.60	356.80	10,714.1	3,452.1	-231.8	3,459.8	0.32	0.00	-0.32	

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Scharb 10 B3OB State #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3909.0usft (Patterson #75)
Site:	Sec 10, T19S, T34E	MD Reference:	Well @ 3909.0usft (Patterson #75)
Well:	Scharb 10 B3OB State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
13,936.0	90.70	356.60	10,713.9	3,516.0	-235.5	3,523.8	1.75	1.72	-0.31
13,999.0	91.80	356.40	10,712.6	3,578.8	-239.4	3,586.8	1.77	1.75	-0.32
14,063.0	91.20	356.40	10,710.9	3,642.7	-243.4	3,650.8	0.94	-0.94	0.00
14,126.0	89.30	357.30	10,710.6	3,705.6	-246.9	3,713.8	3.34	-3.02	1.43
14,190.0	89.60	358.00	10,711.2	3,769.5	-249.5	3,777.8	1.19	0.47	1.09
14,253.0	90.60	357.50	10,711.1	3,832.5	-252.0	3,840.7	1.77	1.59	-0.79
14,317.0	91.50	357.70	10,709.9	3,896.4	-254.6	3,904.7	1.44	1.41	0.31
14,380.0	90.30	357.10	10,709.0	3,959.3	-257.5	3,967.7	2.13	-1.90	-0.95
14,443.0	91.00	357.50	10,708.2	4,022.2	-260.5	4,030.7	1.28	1.11	0.63
14,506.0	92.00	357.30	10,706.6	4,085.2	-263.3	4,093.6	1.62	1.59	-0.32
14,570.0	90.00	357.00	10,705.5	4,149.1	-266.5	4,157.6	3.16	-3.13	-0.47
14,634.0	90.00	357.00	10,705.5	4,213.0	-269.8	4,221.6	0.00	0.00	0.00
14,697.0	90.90	357.00	10,705.0	4,275.9	-273.1	4,284.6	1.43	1.43	0.00
14,760.0	91.90	356.60	10,703.4	4,338.8	-276.7	4,347.6	1.71	1.59	-0.63
14,824.0	91.00	355.90	10,701.8	4,402.6	-280.8	4,411.6	1.78	-1.41	-1.09
14,887.0	89.30	354.50	10,701.7	4,465.4	-286.1	4,474.5	3.50	-2.70	-2.22
14,951.0	89.60	353.80	10,702.3	4,529.1	-292.6	4,538.5	1.19	0.47	-1.09
15,015.0	90.60	353.80	10,702.2	4,592.7	-299.5	4,602.4	1.56	1.56	0.00
15,078.0	91.50	353.80	10,701.0	4,655.3	-306.4	4,665.4	1.43	1.43	0.00
15,130.0	92.40	353.60	10,699.2	4,707.0	-312.1	4,717.3	1.77	1.73	-0.38
15,180.0	92.40	353.60	10,697.1	4,756.6	-317.6	4,767.2	0.00	0.00	0.00

TD @ 15180' MD / 10697' TVD

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,116.0	10,113.2	36.3	26.7	Tie in to GYRO @ 10116' MD / 10113' TVD
10,458.8	10,430.7	144.9	1.7	Crossed 330' Hardline @ 10459' MD / 10431' TVD
15,180.0	10,697.1	4,756.6	-317.6	TD @ 15180' MD / 10697' TVD

Checked By: _____ Approved By: _____ Date: _____