

Results of Directional Survey

API number:	30-025-41732		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	SALADO DRAW 9 BO FEDERAL COM # 1H

surface	ULSTR:	B	09	T 26S	R 33E
				350 FNL	2150 FEL

BH Loc	ULSTR:	O	09	T 26S	R 33E
14185	MD	9841.1	TVD	335 FSL	2100 FEL
				4945 FNL	

Top Perf/OH	ULSTR:	B	09	T 26S	R 33E
10120	MD	9813.1	TVD	882 FNL	2141 FEL

Bot Perf/OH	ULSTR:	O	09	T 26S	R 33E
14024	MD	9843.9	TVD	496 FSL	2104 FEL
				4784 FNL	

	MD	N/S	E/W	VD
	10114	-526.10	9.00	9812.2
TOP PERFS/OH	10120	-532.04	8.94	9813.09
	10145	-556.80	8.70	9816.80
	13975	-4385.20	45.60	9844.30
BOT PERFS/OH	14024	-4434.20	46.46	9843.91
	14038	-4448.20	46.70	9843.80

NEXT TO LAST	14141	-4551.10	49.30	9842.10
LAST READING	14185	-4595.10	50.20	9841.10
TD	14185	-4595.10	50.20	9841.10

Surface Location	350	FN	2150	FE
Projected BHL	4945	FN	2100	FE
Location of				
Top Perfs/OH	882	FN	2141	FE
Bottom Perfs/OH	4784	FN	2104	FE

SUMMARY of Subsurface Locations

Surface Location	B-09-26S-33E	350	FN	2150	FE	Vert. Depth
Top Perfs/OH	B-09-26S-33E	882	FN	2141	FE	9813.09
Bottom Perfs/OH	O-09-26S-33E	4784	FN	2104	FE	9843.91
Projected TD	O-09-26S-33E	4945	FN	2100	FE	9841.10

JUL 02 2014

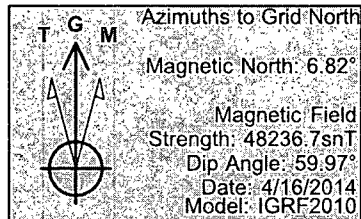
JUN 25 2014

RECEIVED

Company Name: Mewbourne Oil Co
 Salado Draw 9 BO Fed Com #1H
 Lea County, New Mexico
 Rig: Patterson #75
 Created By: James Dawson
 Date: 05/19/2014

Salado Draw 9 BO Fed Com #1H
 Lea County, New Mexico
 Quote 140396 & WT-140383
 Design #2

Mewbourne Oil Company

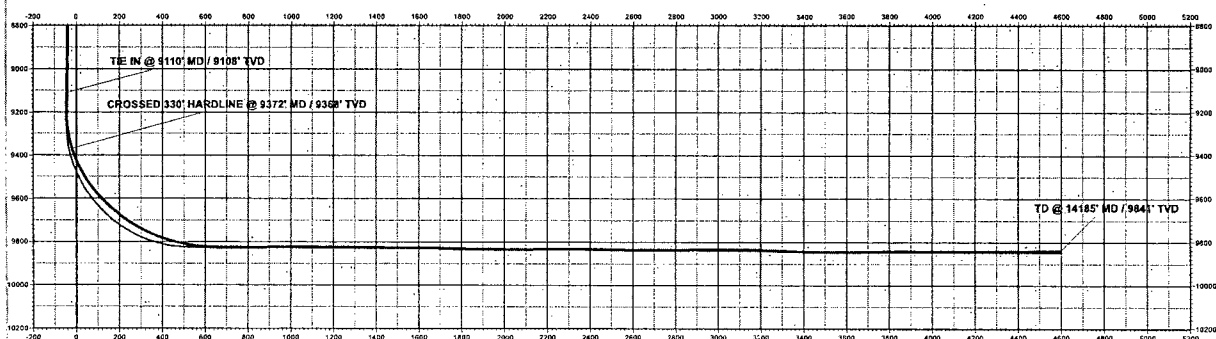
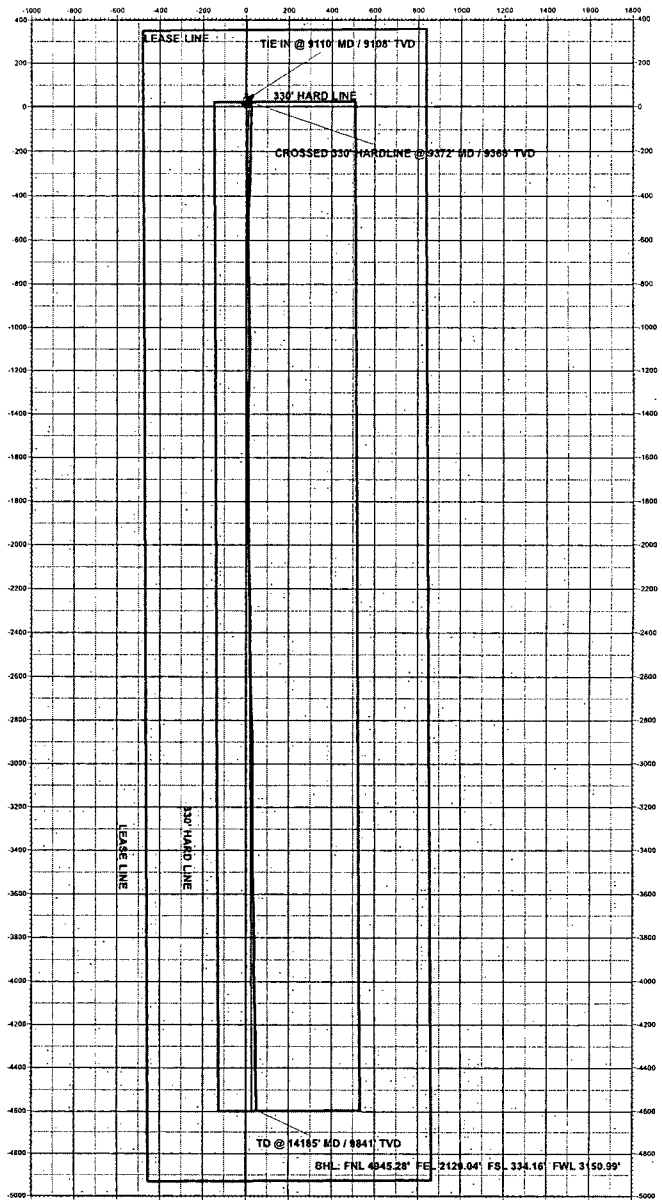


PROJECT DETAILS: Lea County, New Mexico	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

WELL DETAILS:		Salado Draw 9 BO Fed Com #1H			
Ground Level:		3314.8			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	387899.60	734860.10	32° 3' 51.061 N	103° 34' 30.678 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL Salado Draw 9 BO Fed Com #1H D#1 - plan hls target center	9849.0	-4599.3	29.2	383300.26	734889.29	32° 3' 5.545 N

ANNOTATIONS									
MD	Inc	Adj	TVD	+N/-S	+E/-W	Vsct	Departure	Annotation	
9110.0	1.66	315.58	9108.2	43.8	29.2	-43.7	531.4	TIE IN @ 9110' MD / 9108' TVD	
9372.1	17.42	172.83	9367.5	20.1	22.8	-20.6	163.1	CROSSED 330' HARDLINE @ 9372' MD / 9368' TVD	
14165.0	91.30	178.99	9841.1	-4595.1	59.2	4595.3	4779.4	TD @ 14165' MD / 9841' TVD	



Vertical Section at 179.64° (200 usf/in)

HOBBS OCD

JUN 25 2014

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Mewbourne Oil Co

Lea County, New Mexico

Sec 9,T26S, R33E

Salado Draw 9 BO Fed Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

19 May, 2014



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Salado Draw 9 BO Fed Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3334.0usft (Patterson #75)
Site:	Sec 9, T26S, R33E	MD Reference:	Well @ 3334.0usft (Patterson #75)
Well:	Salado Draw 9 BO Fed Com #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 9, T26S, R33E				
Site Position:		Northing:	387,916.48 usft	Latitude:	32° 3' 51.422 N
From:	Map	Easting:	732,056.11 usft	Longitude:	103° 35' 3.259 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	Salado Draw 9 BO Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	387,899.60 usft	Latitude:	32° 3' 51.061 N
	+E/-W	0.0 usft	Easting:	734,860.10 usft	Longitude:	103° 34' 30.678 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,314.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/16/2014	7.23	59.97	48,237

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	179.64	

Survey Program	Date 5/19/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,110.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
9,163.0	14,185.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld 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	0.23	129.79	100.0	-0.1	0.2	0.1	0.23	0.23	0.00	
200.0	0.24	115.06	200.0	-0.3	0.5	0.3	0.06	0.01	-14.73	
300.0	0.21	92.51	300.0	-0.4	0.9	0.4	0.09	-0.03	-22.55	
400.0	0.10	56.31	400.0	-0.4	1.1	0.4	0.14	-0.11	-36.20	
500.0	0.10	23.46	500.0	-0.3	1.2	0.3	0.06	0.00	-32.85	
600.0	0.07	315.03	600.0	-0.2	1.2	0.2	0.10	-0.03	-68.43	
700.0	0.11	335.00	700.0	0.0	1.1	0.0	0.05	0.04	19.97	
800.0	0.13	316.83	800.0	0.1	1.0	-0.1	0.04	0.02	-18.17	
900.0	0.11	318.38	900.0	0.3	0.9	-0.3	0.02	-0.02	1.55	

DDC
Survey Report



Company: Mewbourne Oil Co	Local Co-ordinate Reference: Well Salado Draw 9 BO Fed Com #1H	
Project: Lea County, New Mexico	TVD Reference: Well @ 3334.0usft (Patterson #75)	
Site: Sec 9 T26S R33E	MD Reference: Well @ 3334.0usft (Patterson #75)	
Well: Salado Draw 9 BO Fed 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	0.13	338.07	1,000.0	0.5	0.8	-0.5	0.05	0.02	19.69
1,100.0	0.05	318.90	1,100.0	0.6	0.7	-0.6	0.08	-0.08	-19.17
1,200.0	0.12	341.40	1,200.0	0.8	0.6	-0.7	0.08	0.07	22.50
1,300.0	0.19	308.26	1,300.0	1.0	0.5	-1.0	0.11	0.07	-33.14
1,400.0	0.26	304.65	1,400.0	1.2	0.2	-1.2	0.07	0.07	-3.61
1,500.0	0.60	282.60	1,500.0	1.4	-0.5	-1.4	0.37	0.34	-22.05
1,600.0	0.80	273.20	1,600.0	1.6	-1.7	-1.6	0.23	0.20	-9.40
1,700.0	1.12	272.51	1,700.0	1.7	-3.4	-1.7	0.32	0.32	-0.69
1,800.0	1.23	279.38	1,799.9	1.9	-5.5	-1.9	0.18	0.11	6.87
1,900.0	1.34	276.35	1,899.9	2.2	-7.7	-2.2	0.13	0.11	-3.03
2,000.0	1.33	280.27	1,999.9	2.5	-10.0	-2.6	0.09	-0.01	3.92
2,100.0	1.19	282.08	2,099.9	2.9	-12.1	-3.0	0.15	-0.14	1.81
2,200.0	0.96	286.50	2,199.9	3.4	-14.0	-3.5	0.24	-0.23	4.42
2,300.0	0.79	293.37	2,299.8	3.9	-15.4	-4.0	0.20	-0.17	6.87
2,400.0	0.61	297.04	2,399.8	4.4	-16.5	-4.5	0.19	-0.18	3.67
2,500.0	0.26	369	2,499.8	4.9	-17.0	-5.0	0.56	-0.35	66.65
2,600.0	0.48	60.61	2,599.8	5.3	-16.6	-5.4	0.40	0.22	56.92
2,700.0	0.70	67.39	2,699.8	5.8	-15.6	-5.9	0.23	0.22	6.78
2,800.0	0.88	83.19	2,799.8	6.1	-14.3	-6.2	0.28	0.18	15.80
2,900.0	1.33	79.73	2,899.8	6.4	-12.4	-6.5	0.45	0.45	-3.46
3,000.0	2.16	84.76	2,999.8	6.8	-9.4	-6.8	0.84	0.83	5.03
3,100.0	2.46	89.24	3,099.7	7.0	-5.4	-7.0	0.35	0.30	4.48
3,200.0	2.79	110.52	3,199.6	6.1	-0.9	-6.2	1.02	0.33	21.28
3,300.0	2.82	117.54	3,299.4	4.2	3.5	-4.1	0.34	0.03	7.02
3,400.0	1.89	103.53	3,399.4	2.6	7.3	-2.6	1.09	-0.93	-14.01
3,500.0	1.10	83.13	3,499.3	2.4	9.9	-2.3	0.94	-0.79	-20.40
3,600.0	0.61	49.77	3,599.3	2.8	11.2	-2.8	0.68	-0.49	-33.36
3,700.0	0.94	33.51	3,699.3	3.8	12.1	-3.8	0.39	0.33	-16.26
3,800.0	1.44	21.49	3,799.3	5.7	13.0	-5.6	0.56	0.50	-12.02
3,900.0	2.44	0.36	3,899.2	9.0	13.5	-8.9	1.21	1.00	-21.13
4,000.0	2.63	354.22	3,999.1	13.4	13.2	-13.3	0.33	0.19	-6.14
4,100.0	2.88	343.61	4,099.0	18.1	12.3	-18.0	0.57	0.25	-10.61
4,200.0	2.91	338.90	4,198.9	22.9	10.7	-22.8	0.24	0.03	-4.71
4,300.0	2.79	345.53	4,298.8	27.6	9.2	-27.5	0.35	-0.12	6.63
4,400.0	2.52	20.62	4,398.7	32.0	9.3	-32.0	1.62	-0.27	35.09
4,500.0	2.40	22.56	4,498.6	36.0	10.9	-35.9	0.15	-0.12	1.94
4,600.0	1.62	38.17	4,598.5	39.1	12.6	-39.0	0.95	-0.78	15.61
4,700.0	1.29	62.64	4,698.5	40.7	14.4	-40.6	0.70	-0.33	24.47
4,800.0	1.28	69.16	4,798.5	41.6	16.5	-41.5	0.15	-0.01	6.52
4,900.0	0.85	64.50	4,898.4	42.3	18.2	-42.2	0.44	-0.43	-4.66
5,000.0	0.44	68.72	4,998.4	42.8	19.2	-42.7	0.41	-0.41	4.22
5,100.0	0.47	62.52	5,098.4	43.1	20.0	-43.0	0.06	0.03	-6.20
5,200.0	0.49	68.19	5,198.4	43.5	20.7	-43.3	0.05	0.02	5.67

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Salado Draw 9 BO Fed Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3334.0usft (Patterson #75)
Site:	Sec 9, T26S, R33E	MD Reference:	Well @ 3334.0usft (Patterson #75)
Well:	Salado Draw 9 BO Fed 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	0.46	66.34	5,298.4	43.8	21.5	-43.6	0.03	-0.03	-1.85
5,400.0	0.50	68.07	5,398.4	44.1	22.3	-44.0	0.04	0.04	1.73
5,500.0	0.42	75.91	5,498.4	44.3	23.0	-44.2	0.10	-0.08	7.84
5,600.0	0.42	64.92	5,598.4	44.6	23.7	-44.4	0.08	0.00	-10.99
5,700.0	0.47	63.86	5,698.4	44.9	24.4	-44.8	0.05	0.05	-1.06
5,800.0	0.43	74.89	5,798.4	45.2	25.1	-45.0	0.10	-0.04	11.03
5,900.0	0.36	61.63	5,898.4	45.5	25.8	-45.3	0.11	-0.07	-13.26
6,000.0	0.22	51.14	5,998.4	45.7	26.2	-45.6	0.15	-0.14	-10.49
6,100.0	0.38	33.16	6,098.4	46.1	26.5	-46.0	0.18	0.16	-17.98
6,200.0	0.40	11.21	6,198.4	46.7	26.8	-46.6	0.15	0.02	-21.95
6,300.0	0.42	12.63	6,298.4	47.4	26.9	-47.3	0.02	0.02	1.42
6,400.0	0.38	12.13	6,398.4	48.1	27.1	-48.0	0.04	-0.04	-0.50
6,500.0	0.46	30.13	6,498.4	48.8	27.3	-48.6	0.15	0.08	18.00
6,600.0	0.42	39.53	6,598.4	49.4	27.8	-49.3	0.08	-0.04	9.40
6,700.0	0.51	33.98	6,698.4	50.1	28.3	-49.9	0.10	0.09	-5.55
6,800.0	0.49	26.70	6,798.4	50.8	28.7	-50.6	0.07	-0.02	-7.28
6,900.0	0.29	37.80	6,898.4	51.4	29.0	-51.2	0.21	-0.20	11.10
7,000.0	0.26	110.10	6,998.4	51.5	29.4	-51.3	0.33	-0.03	72.30
7,100.0	0.34	138.34	7,098.4	51.2	29.8	-51.0	0.17	0.08	28.24
7,200.0	0.30	121.99	7,198.4	50.9	30.2	-50.7	0.10	-0.04	-16.35
7,300.0	0.29	130.76	7,298.4	50.6	30.7	-50.4	0.05	-0.01	8.77
7,400.0	0.42	143.49	7,398.4	50.1	31.1	-49.9	0.15	0.13	12.73
7,500.0	0.25	132.33	7,498.4	49.7	31.5	-49.5	0.18	-0.17	-11.16
7,600.0	0.27	121.54	7,598.4	49.4	31.8	-49.2	0.05	0.02	-10.79
7,700.0	0.20	199.57	7,698.4	49.1	32.0	-48.9	0.30	-0.07	78.03
7,800.0	0.40	222.82	7,798.4	48.7	31.7	-48.5	0.23	0.20	23.25
7,900.0	0.57	210.72	7,898.4	48.0	31.2	-47.8	0.20	0.17	-12.10
8,000.0	0.60	201.82	7,998.4	47.1	30.7	-46.9	0.10	0.03	-8.90
8,100.0	0.60	217.61	8,098.4	46.2	30.2	-46.0	0.16	0.00	15.79
8,200.0	0.71	215.57	8,198.3	45.3	29.5	-45.1	0.11	0.11	-2.04
8,300.0	0.73	217.54	8,298.3	44.3	28.8	-44.1	0.03	0.02	1.97
8,400.0	0.81	222.78	8,398.3	43.2	27.9	-43.1	0.11	0.08	5.24
8,500.0	0.69	221.33	8,498.3	42.3	27.0	-42.1	0.12	-0.12	-1.45
8,600.0	0.74	219.00	8,598.3	41.3	26.2	-41.1	0.06	0.05	-2.33
8,700.0	0.58	229.36	8,698.3	40.5	25.4	-40.3	0.20	-0.16	10.36
8,800.0	0.61	258.19	8,798.3	40.0	24.5	-39.9	0.30	0.03	28.83
8,900.0	0.82	300.50	8,898.3	40.3	23.4	-40.2	0.55	0.21	42.31
9,000.0	1.37	324.43	8,998.3	41.6	22.1	-41.5	0.70	0.55	23.93
9,100.0	1.61	317.36	9,098.2	43.6	20.4	-43.5	0.30	0.24	-7.07
TIE IN @ 9110' MD / 9108' TVD									
9,110.0	1.66	315.58	9,108.2	43.8	20.2	-43.7	0.71	0.50	-17.80
9,163.0	1.70	308.50	9,161.2	44.9	19.1	-44.8	0.40	0.08	-13.36
9,194.0	1.70	329.40	9,192.2	45.6	18.5	-45.4	1.99	0.00	67.42

DDC Survey Report



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Project:	Lea County, New Mexico	TVD Reference:	Well @ 3334.0usft (Patterson #75)
Site:	Sec 9,T26S, R33E	MD Reference:	Well @ 3334.0usft (Patterson #75)
Well:	Salado Draw 9 BO Fed 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)
9,226.0	1.70	214.60	9,224.2	45.6	18.0	-45.5	8.95	0.00	-358.75
9,258.0	6.20	164.00	9,256.1	43.5	18.2	-43.4	16.52	14.06	-158.13
9,290.0	9.90	165.70	9,287.8	39.2	19.3	-39.1	11.59	11.56	5.31
9,321.0	12.80	168.50	9,318.2	33.3	20.7	-33.1	9.52	9.35	9.03
9,353.0	15.70	171.00	9,349.2	25.5	22.1	-25.4	9.26	9.06	7.81
CROSSED 330' HARDLINE @ 9372' MD / 9368' TVD									
9,372.1	17.42	172.83	9,367.5	20.1	22.8	-20.0	9.41	9.01	9.57
9,384.0	18.50	173.80	9,378.8	16.5	23.3	-16.3	9.41	9.07	8.16
9,416.0	21.70	175.40	9,408.9	5.5	24.3	-5.4	10.15	10.00	5.00
9,448.0	24.30	179.30	9,438.3	-7.0	24.8	7.1	9.41	8.13	12.19
9,480.0	27.60	181.60	9,467.1	-21.0	24.7	21.1	10.78	10.31	7.19
9,511.0	31.10	181.60	9,494.1	-36.1	24.3	36.3	11.29	11.29	0.00
9,544.0	34.20	180.80	9,521.9	-53.9	23.9	54.1	9.48	9.39	-2.42
9,575.0	37.50	181.20	9,547.0	-72.1	23.6	72.2	10.67	10.65	1.29
9,606.0	40.70	181.60	9,571.1	-91.6	23.1	91.8	10.35	10.32	1.29
9,638.0	43.30	181.60	9,594.9	-113.0	22.5	113.2	8.13	8.13	0.00
9,670.0	45.90	181.40	9,617.6	-135.5	21.9	135.6	8.14	8.13	-0.63
9,702.0	48.30	180.80	9,639.4	-158.9	21.5	159.1	7.62	7.50	-1.88
9,733.0	49.90	180.80	9,659.7	-182.4	21.2	182.5	5.16	5.16	0.00
9,765.0	52.60	181.20	9,679.7	-207.3	20.7	207.4	8.49	8.44	1.25
9,796.0	55.10	181.00	9,698.0	-232.3	20.2	232.5	8.08	8.06	-0.65
9,828.0	58.30	181.20	9,715.6	-259.1	19.7	259.2	10.01	10.00	0.63
9,860.0	61.10	181.60	9,731.7	-286.7	19.1	286.8	8.82	8.75	1.25
9,891.0	63.80	181.70	9,746.1	-314.2	18.3	314.3	8.71	8.71	0.32
9,923.0	66.70	181.70	9,759.5	-343.2	17.4	343.3	9.06	9.06	0.00
9,955.0	69.40	182.80	9,771.4	-372.9	16.2	373.0	9.02	8.44	3.44
9,987.0	71.70	183.50	9,782.1	-403.0	14.6	403.1	7.48	7.19	2.19
10,018.0	74.20	183.30	9,791.2	-432.6	12.8	432.6	8.09	8.06	-0.65
10,050.0	76.30	182.60	9,799.3	-463.5	11.2	463.5	6.89	6.56	-2.19
10,082.0	78.40	182.10	9,806.3	-494.7	9.9	494.7	6.74	6.56	-1.56
10,114.0	80.50	181.20	9,812.2	-526.1	9.0	526.2	7.12	6.56	-2.81
10,145.0	82.40	180.00	9,816.8	-556.8	8.7	556.8	7.23	6.13	-3.87
10,177.0	83.90	179.80	9,820.6	-588.5	8.8	588.6	4.73	4.69	-0.63
10,209.0	86.30	179.30	9,823.3	-620.4	9.0	620.5	7.66	7.50	-1.56
10,232.0	88.80	179.40	9,824.3	-643.4	9.3	643.4	10.88	10.87	0.43
10,268.0	89.90	178.40	9,824.7	-679.4	10.0	679.4	4.13	3.06	-2.78
10,299.0	90.00	179.10	9,824.8	-710.4	10.7	710.4	2.28	0.32	2.26
10,331.0	90.00	178.40	9,824.8	-742.4	11.3	742.4	2.19	0.00	-2.19
10,363.0	90.50	177.70	9,824.6	-774.3	12.4	774.4	2.69	1.56	-2.19
10,426.0	90.70	179.40	9,824.0	-837.3	14.0	837.4	2.72	0.32	2.70
10,490.0	91.10	179.40	9,823.0	-901.3	14.7	901.4	0.63	0.63	0.00
10,553.0	89.90	178.90	9,822.4	-964.3	15.6	964.4	2.06	-1.90	-0.79
10,616.0	90.40	178.60	9,822.2	-1,027.3	17.0	1,027.4	0.93	0.79	-0.48
10,678.0	89.50	180.70	9,822.3	-1,089.3	17.4	1,089.4	3.69	-1.45	3.39

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Salado Draw 9 BO Fed Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3334.0usft (Patterson #75)
Site:	Sec 9,T26S, R33E	MD Reference:	Well @ 3334.0usft (Patterson #75)
Well:	Salado Draw 9 BO Fed 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)
10,741.0	90.00	180.10	9,822.6	-1,152.3	16.9	1,152.4	1.24	0.79	-0.95
10,805.0	89.40	182.10	9,822.9	-1,216.3	15.7	1,216.3	3.26	-0.94	3.13
10,868.0	89.90	182.30	9,823.3	-1,279.2	13.3	1,279.3	0.85	0.79	0.32
10,932.0	89.00	181.70	9,823.9	-1,343.2	11.1	1,343.2	1.69	-1.41	-0.94
10,995.0	89.10	181.40	9,825.0	-1,406.1	9.4	1,406.2	0.50	0.16	-0.48
11,059.0	89.60	180.50	9,825.7	-1,470.1	8.3	1,470.1	1.61	0.78	-1.41
11,121.0	89.50	180.30	9,826.2	-1,532.1	7.9	1,532.1	0.36	-0.16	-0.32
11,185.0	89.90	181.20	9,826.5	-1,596.1	7.0	1,596.1	1.54	0.63	1.41
11,248.0	88.20	180.10	9,827.5	-1,659.1	6.3	1,659.1	3.21	-2.70	-1.75
11,312.0	88.60	180.10	9,829.3	-1,723.1	6.2	1,723.1	0.63	0.63	0.00
11,375.0	89.10	179.80	9,830.6	-1,786.1	6.3	1,786.1	0.93	0.79	-0.48
11,438.0	89.10	178.00	9,831.6	-1,849.0	7.5	1,849.0	2.86	0.00	-2.86
11,502.0	89.40	178.40	9,832.4	-1,913.0	9.5	1,913.0	0.78	0.47	0.63
11,566.0	89.90	177.50	9,832.8	-1,977.0	11.8	1,977.0	1.61	0.78	-1.41
11,629.0	89.80	178.70	9,833.0	-2,039.9	13.9	2,040.0	1.91	-0.16	1.90
11,692.0	90.20	178.70	9,833.0	-2,102.9	15.3	2,103.0	0.63	0.63	0.00
11,755.0	90.90	177.90	9,832.4	-2,165.9	17.2	2,165.9	1.69	1.11	-1.27
11,819.0	90.10	179.40	9,831.8	-2,229.8	18.7	2,229.9	2.66	-1.25	2.34
11,882.0	90.80	180.00	9,831.3	-2,292.8	19.0	2,292.9	1.46	1.11	0.95
11,946.0	87.80	179.60	9,832.1	-2,356.8	19.2	2,356.9	4.73	-4.69	-0.63
12,009.0	88.70	179.80	9,834.0	-2,419.8	19.5	2,419.9	1.46	1.43	0.32
12,073.0	89.10	179.60	9,835.3	-2,483.8	19.9	2,483.9	0.70	0.63	-0.31
12,136.0	89.50	178.40	9,836.0	-2,546.8	21.0	2,546.9	2.01	0.63	-1.90
12,202.0	89.90	179.80	9,836.4	-2,612.8	22.0	2,612.8	2.21	0.61	2.12
12,263.0	89.70	178.90	9,836.6	-2,673.8	22.7	2,673.8	1.51	-0.33	-1.48
12,326.0	89.80	177.30	9,836.9	-2,736.7	24.8	2,736.8	2.54	0.16	-2.54
12,389.0	90.60	177.70	9,836.6	-2,799.7	27.5	2,799.8	1.42	1.27	0.63
12,453.0	90.80	177.50	9,835.9	-2,863.6	30.2	2,863.7	0.44	0.31	-0.31
12,517.0	90.20	180.30	9,835.3	-2,927.6	31.5	2,927.7	4.47	-0.94	4.38
12,580.0	90.50	180.00	9,834.9	-2,990.6	31.3	2,990.7	0.67	0.48	-0.48
12,643.0	89.50	180.50	9,834.9	-3,053.6	31.0	3,053.7	1.77	-1.59	0.79
12,706.0	90.00	181.20	9,835.2	-3,116.6	30.1	3,116.7	1.37	0.79	1.11
12,770.0	87.70	179.80	9,836.5	-3,180.5	29.5	3,180.7	4.21	-3.59	-2.19
12,833.0	87.70	180.00	9,839.0	-3,243.5	29.6	3,243.6	0.32	0.00	0.32
12,897.0	87.80	179.80	9,841.5	-3,307.4	29.7	3,307.6	0.35	0.16	-0.31
12,960.0	88.30	179.60	9,843.7	-3,370.4	30.1	3,370.5	0.85	0.79	-0.32
13,023.0	89.00	179.80	9,845.1	-3,433.4	30.4	3,433.5	1.16	1.11	0.32
13,087.0	89.50	178.70	9,846.0	-3,497.4	31.2	3,497.5	1.89	0.78	-1.72
13,150.0	89.70	178.40	9,846.4	-3,560.4	32.8	3,560.5	0.57	0.32	-0.48
13,214.0	89.70	178.20	9,846.8	-3,624.3	34.7	3,624.5	0.31	0.00	-0.31
13,277.0	90.80	179.30	9,846.5	-3,687.3	36.1	3,687.5	2.47	1.75	1.75
13,341.0	91.40	178.60	9,845.3	-3,751.3	37.3	3,751.4	1.44	0.94	-1.09
13,404.0	89.90	179.40	9,844.5	-3,814.3	38.4	3,814.4	2.70	-2.38	1.27

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Salado Draw 9 BO Fed Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3334.0usft (Patterson #75)
Site:	Sec 9,T26S, R33E	MD Reference:	Well @ 3334.0usft (Patterson #75)
Well:	Salado Draw 9 BO Fed 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)
13,467.0	90.10	180.70	9,844.5	-3,877.3	38.3	3,877.4	2.09	0.32	2.06
13,531.0	90.00	179.80	9,844.5	-3,941.3	38.0	3,941.4	1.41	-0.16	-1.41
13,595.0	90.20	179.10	9,844.4	-4,005.3	38.7	4,005.4	1.14	0.31	-1.09
13,658.0	90.10	178.20	9,844.2	-4,068.2	40.1	4,068.4	1.44	-0.16	-1.43
13,721.0	90.30	177.70	9,844.0	-4,131.2	42.4	4,131.4	0.85	0.32	-0.79
13,784.0	89.80	179.40	9,843.9	-4,194.2	44.0	4,194.4	2.81	-0.79	2.70
13,848.0	90.00	179.30	9,844.0	-4,258.2	44.7	4,258.4	0.35	0.31	-0.16
13,911.0	89.70	180.00	9,844.2	-4,321.2	45.1	4,321.4	1.21	-0.48	1.11
13,975.0	90.20	179.10	9,844.3	-4,385.2	45.6	4,385.4	1.61	0.78	-1.41
14,038.0	90.60	178.90	9,843.8	-4,448.2	46.7	4,448.4	0.71	0.63	-0.32
14,102.0	91.00	178.20	9,842.9	-4,512.1	48.3	4,512.3	1.26	0.63	-1.09
14,141.0	91.30	178.90	9,842.1	-4,551.1	49.3	4,551.3	1.95	0.77	1.79
TD @ 14185' MD / 9841' TVD									
14,185.0	91.30	178.90	9,841.1	-4,595.1	50.2	4,595.3	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,110.0	9,108.2	43.8	20.2	TIE IN @ 9110' MD / 9108' TVD
9,372.1	9,367.5	20.1	22.8	CROSSED 330' HARDLINE @ 9372' MD / 9368' TVD
14,185.0	9,841.1	-4,595.1	50.2	TD @ 14185' MD / 9841' TVD

Checked By: _____ Approved By: _____ Date: _____