

Results of Directional Survey

API number:	30-025-41142		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	SALADO DRAW 9 DM FEDERAL COM # 1H

surface	ULSTR:	D	09	T	26S	R	33E
				320	FNL	330	FWL

BH Loc	ULSTR:	M	09	T	26S	R	33E
14040	MD	9857.4	TVD	342	FSL	545	FWL
				4938	FNL		

Top Perf/OH	ULSTR:	D	09	T	26S	R	33E
10090	MD	9819.4	TVD	994	FNL	403	FWL

Bot Perf/OH	ULSTR:	M	09	T	26S	R	33E
13892	MD	9863.5	TVD	489	FSL	542	FWL
				4791	FNL		

	MD	N/S	E/W	VD
	10079	-663.20	73.30	9817.2
TOP PERFS/OH	10090	-673.96	73.16	9819.43
	10111	-694.50	72.90	9823.70
	13874	-4452.50	211.40	9864.00
BOT PERFS/OH	13892	-4470.50	211.69	9863.54
	13937	-4515.50	212.40	9862.40

NEXT TO LAST	13989	-4567.40	213.40	9860.10
LAST READING	14040	-4618.30	214.70	9857.40
TD	14040	-4618.30	214.70	9857.40

Surface Location	320	FN	330	FW
Projected BHL	4938	FN	545	FW
Location of				
Top Perfs/OH	994	FN	403	FW
Bottom Perfs/OH	4791	FN	542	FW

SUMMARY of Subsurface Locations

Surface Location	D-09-26S-33E	320	FN	330	FW	Vert. Depth
Top Perfs/OH	D-09-26S-33E	994	FN	403	FW	9819.43
Bottom Perfs/OH	M-09-26S-33E	4791	FN	542	FW	9863.54
Projected TD	M-09-26S-33E	4938	FN	545	FW	9857.40

DEC 31 2013



Job Number: SVMO-130866

Company: Mewbourne Oil & Gas

Lease/Well: Salado Draw 9 DM Fed Com 1H

Location: Lea County, NM

Rig Name: Patterson #36

RKB: 20'

G.L. or M.S.L.: GL

State/Country: New Mexico/USA

Declination: 6.90°

Grid: East To Grid North

File name: S:\2013SU-1\MEWBOU-1\MOISALADO-1\1H.SVY

Date/Time: 18-Oct-13 / 13:45

Curve Name: Surface - 9077' M.D. (SRG)

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 179.21
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

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	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.20	204.98	100.00	-.16	-.07	.16	.17	204.98	.20
200.00	.38	165.69	200.00	-.64	-.07	.64	.64	185.86	.26
300.00	.35	193.59	300.00	-1.26	-.06	1.26	1.26	182.52	.18
400.00	.29	198.05	400.00	-1.79	-.21	1.79	1.81	186.53	.06
500.00	.25	179.74	499.99	-2.25	-.28	2.25	2.27	187.16	.09
600.00	.61	177.03	599.99	-3.00	-.25	3.00	3.01	184.84	.36
700.00	1.00	180.27	699.98	-4.41	-.23	4.40	4.41	183.00	.39
800.00	1.34	190.84	799.96	-6.43	-.45	6.42	6.44	184.05	.40
900.00	1.41	195.46	899.93	-8.76	-1.00	8.75	8.82	186.53	.13

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	
1000.00	1.35	186.82	999.90	-11.12	-1.47	11.10	11.21	187.54	.22
1100.00	1.21	180.07	1099.88	-13.34	-1.61	13.32	13.44	186.89	.21
1200.00	.88	178.54	1199.86	-15.17	-1.59	15.14	15.25	186.00	.33
1300.00	.81	188.61	1299.85	-16.63	-1.68	16.61	16.72	185.77	.16
1400.00	.46	220.38	1399.84	-17.64	-2.05	17.61	17.76	186.62	.48
1500.00	.37	220.61	1499.84	-18.19	-2.52	18.15	18.36	187.88	.09
1600.00	.66	226.90	1599.84	-18.83	-3.15	18.78	19.09	189.49	.30
1700.00	.63	250.10	1699.83	-19.41	-4.08	19.35	19.83	191.88	.26
1800.00	.42	231.55	1799.83	-19.82	-4.89	19.75	20.42	193.85	.27
1900.00	.68	242.25	1899.82	-20.33	-5.70	20.25	21.11	195.67	.28
2000.00	.56	253.11	1999.82	-20.74	-6.69	20.65	21.80	197.88	.17
2100.00	.67	257.24	2099.81	-21.02	-7.73	20.91	22.39	200.20	.12
2200.00	.63	244.40	2199.80	-21.38	-8.80	21.26	23.12	202.36	.15
2300.00	.51	246.74	2299.80	-21.80	-9.70	21.66	23.86	203.99	.12
2400.00	.31	217.28	2399.80	-22.19	-10.27	22.04	24.45	204.85	.28
2500.00	.07	354.63	2499.80	-22.34	-10.44	22.20	24.66	205.05	.36
2600.00	.12	212.45	2599.80	-22.37	-10.51	22.22	24.71	205.16	.18
2700.00	.14	145.14	2699.80	-22.56	-10.49	22.41	24.88	204.94	.15
2800.00	.46	102.05	2799.79	-22.74	-10.03	22.60	24.86	203.80	.37
2900.00	.87	93.16	2899.79	-22.87	-8.88	22.74	24.53	201.22	.42
3000.00	1.34	82.43	2999.77	-22.76	-6.96	22.66	23.80	197.01	.51
3100.00	1.85	82.18	3099.73	-22.38	-4.20	22.32	22.77	190.64	.51
3200.00	2.08	103.71	3199.67	-22.59	-.84	22.58	22.61	182.13	.77
3300.00	2.14	109.35	3299.60	-23.64	2.68	23.68	23.79	173.52	.22
3400.00	1.99	104.94	3399.54	-24.71	6.12	24.79	25.45	166.08	.22
3500.00	2.05	105.99	3499.48	-25.65	9.52	25.78	27.36	159.64	.07
3600.00	2.01	105.46	3599.41	-26.61	12.93	26.78	29.58	154.08	.04
3700.00	2.13	123.97	3699.35	-28.11	16.16	28.33	32.43	150.11	.68
3800.00	2.49	136.21	3799.27	-30.72	19.20	30.98	36.23	147.99	.61

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	
3900.00	2.43	151.66	3899.18	-34.15	21.71	34.45	40.47	147.55	.66
4000.00	2.74	170.36	3999.08	-38.38	23.12	38.69	44.80	148.93	.89
4100.00	3.24	173.96	4098.94	-43.54	23.82	43.87	49.63	151.32	.53
4200.00	3.20	173.71	4198.78	-49.13	24.42	49.46	54.86	153.57	.04
4300.00	3.20	143.17	4298.64	-54.14	26.40	54.49	60.23	154.00	1.68
4400.00	3.42	141.68	4398.47	-58.71	29.92	59.12	65.90	152.99	.24
4500.00	3.31	138.28	4498.30	-63.21	33.69	63.66	71.63	151.94	.23
4600.00	3.64	127.95	4598.11	-67.31	38.12	67.83	77.36	150.48	.71
4700.00	3.62	128.07	4697.91	-71.21	43.11	71.80	83.24	148.81	.02
4800.00	2.75	127.12	4797.76	-74.61	47.51	75.25	88.45	147.51	.87
4900.00	1.79	121.44	4897.68	-76.87	50.75	77.56	92.11	146.57	.98
5000.00	1.47	130.97	4997.64	-78.52	53.05	79.25	94.77	145.96	.42
5100.00	1.43	125.76	5097.61	-80.09	55.03	80.84	97.18	145.51	.14
5200.00	1.35	124.05	5197.58	-81.48	57.02	82.26	99.45	145.02	.09
5300.00	1.20	114.70	5297.55	-82.58	58.95	83.38	101.46	144.48	.26
5400.00	1.30	115.51	5397.53	-83.51	60.92	84.34	103.37	143.89	.10
5500.00	1.32	112.11	5497.50	-84.43	63.01	85.29	105.35	143.26	.08
5600.00	1.03	109.45	5597.48	-85.16	64.93	86.05	107.09	142.68	.30
5700.00	.88	111.48	5697.47	-85.74	66.49	86.65	108.50	142.21	.15
5800.00	.79	90.49	5797.46	-86.03	67.90	86.96	109.59	141.72	.32
5900.00	.61	93.81	5897.45	-86.07	69.12	87.01	110.39	141.23	.18
6000.00	.40	91.29	5997.44	-86.11	70.00	87.07	110.97	140.89	.21
6100.00	.53	126.21	6097.44	-86.39	70.72	87.36	111.65	140.70	.31
6200.00	.17	142.36	6197.44	-86.78	71.18	87.76	112.24	140.64	.37
6300.00	.25	150.17	6297.44	-87.09	71.38	88.07	112.61	140.66	.08
6400.00	.14	89.85	6397.44	-87.28	71.61	88.26	112.90	140.63	.22
6500.00	.07	185.04	6497.44	-87.34	71.73	88.32	113.02	140.61	.16
6600.00	.27	101.40	6597.44	-87.45	71.95	88.43	113.25	140.55	.27
6700.00	.12	65.94	6697.44	-87.45	72.28	88.44	113.46	140.43	.19

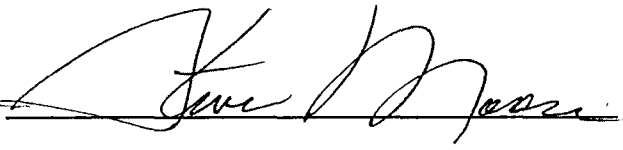
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6800.00	.18	107.33	6797.44	-87.46	72.53	88.45	113.62	140.33	.12
6900.00	.36	186.29	6897.44	-87.82	72.64	88.81	113.97	140.40	.37
7000.00	.55	201.52	6997.43	-88.57	72.43	89.56	114.42	140.73	.22
7100.00	.41	226.90	7097.43	-89.26	71.99	90.25	114.68	141.11	.25
7200.00	.46	222.82	7197.43	-89.80	71.46	90.78	114.77	141.49	.06
7300.00	.59	214.45	7297.42	-90.52	70.90	91.49	114.98	141.93	.15
7400.00	.44	227.38	7397.42	-91.21	70.32	92.17	115.17	142.37	.19
7500.00	.53	228.39	7497.41	-91.77	69.69	92.73	115.24	142.79	.09
7600.00	.89	194.94	7597.41	-92.83	69.15	93.78	115.75	143.32	.53
7700.00	.92	194.55	7697.39	-94.36	68.75	95.30	116.75	143.92	.03
7800.00	.64	179.65	7797.39	-95.69	68.55	96.63	117.71	144.39	.34
7900.00	.64	161.27	7897.38	-96.78	68.73	97.72	118.70	144.62	.20
8000.00	.84	171.87	7997.37	-98.04	69.01	98.98	119.89	144.86	.24
8100.00	.92	173.05	8097.36	-99.56	69.21	100.50	121.25	145.19	.08
8200.00	1.02	186.60	8197.34	-101.24	69.21	102.19	122.64	145.64	.25
8300.00	1.15	174.91	8297.33	-103.12	69.20	104.07	124.19	146.14	.26
8400.00	1.19	184.99	8397.31	-105.16	69.19	106.10	125.88	146.66	.21
8500.00	1.10	184.14	8497.29	-107.15	69.03	108.09	127.46	147.21	.09
8600.00	1.38	178.05	8597.26	-109.31	69.01	110.25	129.27	147.74	.31
8700.00	.92	188.28	8697.24	-111.31	68.93	112.25	130.92	148.23	.50
8800.00	1.08	199.49	8797.23	-112.99	68.50	113.93	132.13	148.77	.25
8900.00	.89	196.99	8897.21	-114.62	67.96	115.55	133.26	149.34	.19
9000.00	.72	199.90	8997.20	-115.96	67.52	116.88	134.18	149.79	.17
Last Survey Depth Recorded									
9077.00	.35	204.06	9074.20	-116.63	67.26	117.54	134.63	150.03	.48

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE SALADO DRAW 9 DM FEDERAL COM 1H
COUNTY LEA

036-0058

STATE OF NEW MEXICO
DEVIATION REPORT

299	0.64
598	0.55
1,171	1.00
1,541	0.50
1,825	0.60
2,110	1.00
2,427	0.20
2,711	0.20
3,219	1.40
3,265	2.00
3,692	2.30
4,122	3.30
4,695	3.80
4,970	1.60
5,387	1.40
5,846	0.70
6,680	0.10
7,093	0.70
7,504	0.90
7,978	1.00
8,298	1.10
8,752	1.10

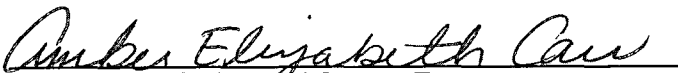
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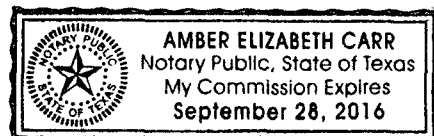
STATE OF TEXAS

COUNTY OF MIDLAND

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

11/19/13, by


Notary Public for Midland County, Texas
My Commission Expires:





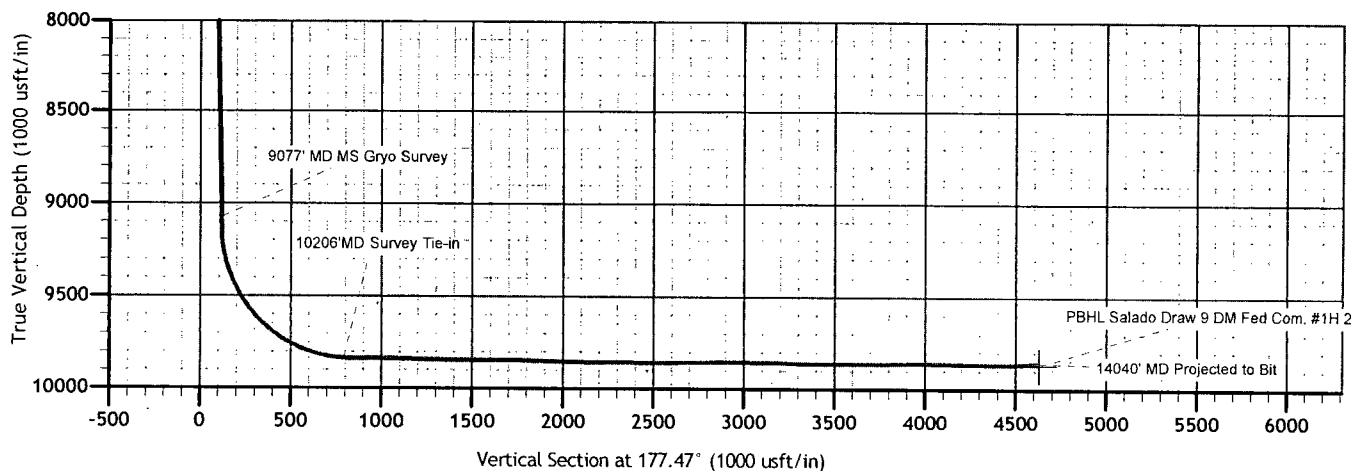
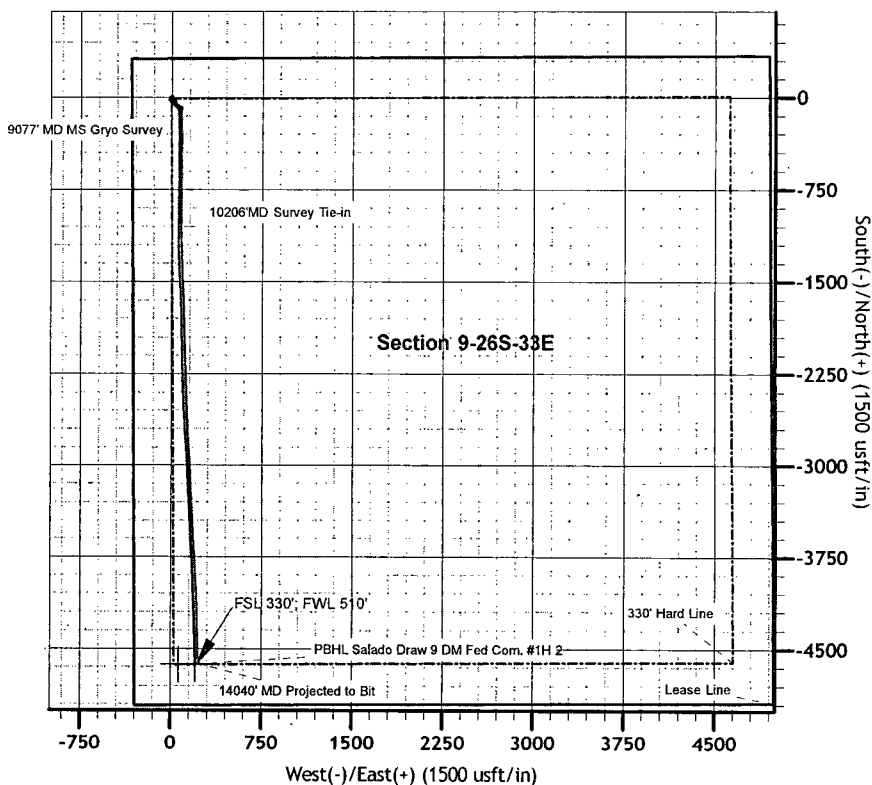
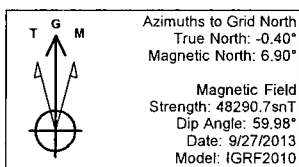
COMPANY: Mewbourne Oil Company
 WELL: Salado Draw 9 DM Federal Com #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #36

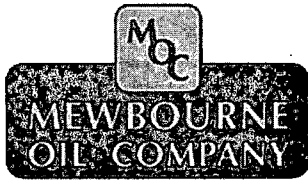


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.90°

GEODETTIC ZONE: New Mexico East 3001					
GL3327 + 20 @ 3347.0usft (Patterson #36)					
GROUND ELEVATION: 3327.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	387916.48	732056.11	32° 3' 51.422 N	103° 35' 3.259 W
					Slot

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	10206.0	86.40	180.40	9834.7	-788.8	71.6	0.00	0.00	791.2	Target
2	10407.3	89.60	177.96	9841.7	-989.9	74.4	2.00	-37.36	982.2	
3	14045.8	89.60	177.96	9867.0	-4626.1	204.1	0.00	0.00	4630.6	PBHL Salado Draw 9 DM Fed Com. #1H 2





Mewbourne Oil Company .

Lea County N.M.

Section 9-26S-33E Salado Draw 9

Salado Draw 9 DM Federal Com #1H

OH

Design: OH

Standard Survey Report

04 November, 2013





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9 DM Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Site:	Section 9-26S-33E Salado Draw 9	MD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Well:	Salado Draw 9 DM Federal Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County N.M.		
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 9-26S-33E Salado Draw 9		
Site Position:		Northing:	387,916.48 usft
From:	Map	Easting:	732,056.11 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 51.422 N
		Longitude:	103° 35' 3.259 W
		Grid Convergence:	0.40 °

Well	Salado Draw 9 DM Federal Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 387,916.48 usft
	+E/-W	0.0 usft	Easting: 732,056.11 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 3' 51.422 N
		Longitude:	103° 35' 3.259 W
		Ground Level:	3,327.0 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/27/2013	7.30	59.98	48,291

Design	OH		
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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	177.47

Survey Program		Date 11/4/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,077.0	Gyro Survey #1 (OH)	GyroFlex	
9,160.0	14,040.0	Survey #2 (OH)	MWD	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	0.20	204.98	100.0	-0.2	-0.1	0.2	0.20	0.20	0.00
200.0	0.38	165.69	200.0	-0.6	-0.1	0.6	0.26	0.18	-39.29
300.0	0.35	193.59	300.0	-1.3	-0.1	1.3	0.18	-0.03	27.90
400.0	0.29	198.05	400.0	-1.8	-0.2	1.8	0.06	-0.06	4.46
500.0	0.25	179.74	500.0	-2.3	-0.3	2.2	0.09	-0.04	-18.31
600.0	0.61	177.03	600.0	-3.0	-0.3	3.0	0.36	0.36	-2.71
700.0	1.00	180.27	700.0	-4.4	-0.2	4.4	0.39	0.39	3.24
800.0	1.34	190.84	800.0	-6.4	-0.5	6.4	0.40	0.34	10.57
900.0	1.41	195.46	899.9	-8.8	-1.0	8.7	0.13	0.07	4.62



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9 DM Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Site:	Section 9-26S-33E Salado Draw 9	MD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Well:	Salado Draw 9 DM Federal Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	1.35	186.82	999.9	-11.1	-1.5	11.0	0.22	-0.06	-8.64
1,100.0	1.21	180.07	1,099.9	-13.3	-1.6	13.3	0.21	-0.14	-6.75
1,200.0	0.88	178.54	1,199.9	-15.2	-1.6	15.1	0.33	-0.33	-1.53
1,300.0	0.81	188.61	1,299.8	-16.6	-1.7	16.5	0.16	-0.07	10.07
1,400.0	0.46	220.38	1,399.8	-17.6	-2.0	17.5	0.48	-0.35	31.77
1,500.0	0.37	220.61	1,499.8	-18.2	-2.5	18.1	0.09	-0.09	0.23
1,600.0	0.66	226.90	1,599.8	-18.8	-3.1	18.7	0.30	0.29	6.29
1,700.0	0.63	250.10	1,699.8	-19.4	-4.1	19.2	0.26	-0.03	23.20
1,800.0	0.42	231.55	1,799.8	-19.8	-4.9	19.6	0.27	-0.21	-18.55
1,900.0	0.68	242.25	1,899.8	-20.3	-5.7	20.1	0.28	0.26	10.70
2,000.0	0.56	253.11	1,999.8	-20.7	-6.7	20.4	0.17	-0.12	10.86
2,100.0	0.67	257.24	2,099.8	-21.0	-7.7	20.7	0.12	0.11	4.13
2,200.0	0.63	244.40	2,199.8	-21.4	-8.8	21.0	0.15	-0.04	-12.84
2,300.0	0.51	246.74	2,299.8	-21.8	-9.7	21.3	0.12	-0.12	2.34
2,400.0	0.31	217.28	2,399.8	-22.2	-10.3	21.7	0.28	-0.20	-29.46
2,500.0	0.07	354.63	2,499.8	-22.3	-10.4	21.9	0.36	-0.24	137.35
2,600.0	0.12	212.45	2,599.8	-22.4	-10.5	21.9	0.18	0.05	-142.18
2,700.0	0.14	145.14	2,699.8	-22.6	-10.5	22.1	0.15	0.02	-67.31
2,800.0	0.46	102.05	2,799.8	-22.7	-10.0	22.3	0.37	0.32	-43.09
2,900.0	0.87	93.16	2,899.8	-22.9	-8.9	22.5	0.42	0.41	-8.89
3,000.0	1.34	82.43	2,999.8	-22.8	-7.0	22.4	0.51	0.47	-10.73
3,100.0	1.85	82.18	3,099.7	-22.4	-4.2	22.2	0.51	0.51	-0.25
3,200.0	2.08	103.71	3,199.7	-22.6	-0.8	22.5	0.77	0.23	21.53
3,300.0	2.14	109.35	3,299.6	-23.6	2.7	23.7	0.22	0.06	5.64
3,400.0	1.99	104.94	3,399.5	-24.7	6.1	25.0	0.22	-0.15	-4.41
3,500.0	2.05	105.99	3,499.5	-25.6	9.5	26.0	0.07	0.06	1.05
3,600.0	2.01	105.46	3,599.4	-26.6	12.9	27.2	0.04	-0.04	-0.53
3,700.0	2.13	123.97	3,699.4	-28.1	16.2	28.8	0.68	0.12	18.51
3,800.0	2.49	136.21	3,799.3	-30.7	19.2	31.5	0.61	0.36	12.24
3,900.0	2.43	151.66	3,899.2	-34.2	21.7	35.1	0.66	-0.06	15.45
4,000.0	2.74	170.36	3,999.1	-38.4	23.1	39.4	0.89	0.31	18.70
4,100.0	3.24	173.96	4,098.9	-43.5	23.8	44.6	0.53	0.50	3.60
4,200.0	3.20	173.71	4,198.8	-49.1	24.4	50.2	0.04	-0.04	-0.25
4,300.0	3.20	143.17	4,298.6	-54.1	26.4	55.2	1.68	0.00	-30.54
4,400.0	3.42	141.68	4,398.5	-58.7	29.9	60.0	0.24	0.22	-1.49
4,500.0	3.31	138.28	4,498.3	-63.2	33.7	64.6	0.23	-0.11	-3.40
4,600.0	3.64	127.95	4,598.1	-67.3	38.1	68.9	0.71	0.33	-10.33
4,700.0	3.62	128.07	4,697.9	-71.2	43.1	73.0	0.02	-0.02	0.12
4,800.0	2.75	127.12	4,797.8	-74.6	47.5	76.6	0.87	-0.87	-0.95
4,900.0	1.79	121.44	4,897.7	-76.9	50.8	79.0	0.98	-0.96	-5.68
5,000.0	1.47	130.97	4,997.6	-78.5	53.1	80.8	0.42	-0.32	9.53
5,100.0	1.43	125.76	5,097.6	-80.1	55.0	82.4	0.14	-0.04	-5.21
5,200.0	1.35	124.05	5,197.6	-81.5	57.0	83.9	0.09	-0.08	-1.71



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9 DM Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Site:	Section 9-26S-33E Salado Draw 9	MD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Well:	Salado Draw 9 DM Federal Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	1.20	114.70	5,297.6	-82.6	58.9	85.1	0.26	-0.15	-9.35
5,400.0	1.30	115.51	5,397.5	-83.5	60.9	86.1	0.10	0.10	0.81
5,500.0	1.32	112.11	5,497.5	-84.4	63.0	87.1	0.08	0.02	-3.40
5,600.0	1.03	109.45	5,597.5	-85.2	64.9	87.9	0.30	-0.29	-2.66
5,700.0	0.88	111.48	5,697.5	-85.7	66.5	88.6	0.15	-0.15	2.03
5,800.0	0.79	90.49	5,797.5	-86.0	67.9	88.9	0.32	-0.09	-20.99
5,900.0	0.61	93.81	5,897.4	-86.1	69.1	89.0	0.18	-0.18	3.32
6,000.0	0.40	91.29	5,997.4	-86.1	70.0	89.1	0.21	-0.21	-2.52
6,100.0	0.53	126.21	6,097.4	-86.4	70.7	89.4	0.31	0.13	34.92
6,200.0	0.17	142.36	6,197.4	-86.8	71.2	89.8	0.37	-0.36	16.15
6,300.0	0.25	150.17	6,297.4	-87.1	71.4	90.2	0.08	0.08	7.81
6,400.0	0.14	89.85	6,397.4	-87.3	71.6	90.4	0.22	-0.11	-60.32
6,500.0	0.07	185.04	6,497.4	-87.3	71.7	90.4	0.16	-0.07	95.19
6,600.0	0.27	101.40	6,597.4	-87.4	72.0	90.5	0.27	0.20	-83.64
6,700.0	0.12	65.94	6,697.4	-87.5	72.3	90.6	0.19	-0.15	-35.46
6,800.0	0.18	107.33	6,797.4	-87.5	72.5	90.6	0.12	0.06	41.39
6,900.0	0.36	186.29	6,897.4	-87.8	72.6	90.9	0.37	0.18	78.96
7,000.0	0.55	201.52	6,997.4	-88.6	72.4	91.7	0.22	0.19	15.23
7,100.0	0.41	226.90	7,097.4	-89.3	72.0	92.4	0.25	-0.14	25.38
7,200.0	0.46	222.82	7,197.4	-89.8	71.5	92.9	0.06	0.05	-4.08
7,300.0	0.59	214.45	7,297.4	-90.5	70.9	93.6	0.15	0.13	-8.37
7,400.0	0.44	227.38	7,397.4	-91.2	70.3	94.2	0.19	-0.15	12.93
7,500.0	0.53	228.39	7,497.4	-91.8	69.7	94.8	0.09	0.09	1.01
7,600.0	0.89	194.94	7,597.4	-92.8	69.1	95.8	0.53	0.36	-33.45
7,700.0	0.92	194.55	7,697.4	-94.4	68.7	97.3	0.03	0.03	-0.39
7,800.0	0.64	179.65	7,797.4	-95.7	68.5	98.6	0.34	-0.28	-14.90
7,900.0	0.64	161.27	7,897.4	-96.8	68.7	99.7	0.20	0.00	-18.38
8,000.0	0.84	171.87	7,997.4	-98.0	69.0	101.0	0.24	0.20	10.60
8,100.0	0.92	173.05	8,097.4	-99.6	69.2	102.5	0.08	0.08	1.18
8,200.0	1.02	186.60	8,197.3	-101.2	69.2	104.2	0.25	0.10	13.55
8,300.0	1.15	174.91	8,297.3	-103.1	69.2	106.1	0.26	0.13	-11.69
8,400.0	1.19	184.99	8,397.3	-105.2	69.2	108.1	0.21	0.04	10.08
8,500.0	1.10	184.14	8,497.3	-107.2	69.0	110.1	0.09	-0.09	-0.85
8,600.0	1.38	178.05	8,597.3	-109.3	69.0	112.3	0.31	0.28	-6.09
8,700.0	0.92	188.28	8,697.2	-111.3	68.9	114.2	0.50	-0.46	10.23
8,800.0	1.08	199.49	8,797.2	-113.0	68.5	115.9	0.25	0.16	11.21
8,900.0	0.89	196.99	8,897.2	-114.6	68.0	117.5	0.19	-0.19	-2.50
9,000.0	0.72	199.90	8,997.2	-116.0	67.5	118.8	0.17	-0.17	2.91
9,077.0	0.35	204.06	9,074.2	-116.6	67.3	119.5	0.48	-0.48	5.40
9077 MD MS Gryo Survey									
9,160.0	1.30	167.20	9,157.2	-117.8	67.4	120.6	1.25	1.14	-44.41
9,191.0	4.00	165.70	9,188.2	-119.2	67.7	122.0	8.71	8.71	-4.84
9,223.0	6.90	169.40	9,220.0	-122.1	68.3	125.0	9.12	9.06	11.56



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9 DM Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Site:	Section 9-26S-33E Salado Draw 9	MD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Well:	Salado Draw 9 DM Federal Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
9,255.0	10.20	174.60	9,251.6	-126.8	69.0	129.8	10.58	10.31	16.25
9,287.0	13.10	176.40	9,283.0	-133.3	69.5	136.2	9.13	9.06	5.63
9,318.0	15.80	174.80	9,313.0	-141.0	70.1	144.0	8.80	8.71	-5.16
9,350.0	18.50	174.70	9,343.6	-150.4	70.9	153.4	8.44	8.44	-0.31
9,382.0	20.50	177.00	9,373.7	-161.0	71.7	164.1	6.69	6.25	7.19
9,414.0	23.30	180.60	9,403.4	-173.0	71.9	176.0	9.70	8.75	11.25
9,445.0	26.40	181.50	9,431.6	-186.0	71.7	189.0	10.07	10.00	2.90
9,477.0	28.70	181.20	9,459.9	-200.8	71.3	203.7	7.20	7.19	-0.94
9,509.0	30.40	180.70	9,487.8	-216.6	71.1	219.5	5.37	5.31	-1.56
9,541.0	33.20	179.10	9,515.0	-233.4	71.1	236.3	9.14	8.75	-5.00
9,573.0	36.20	177.00	9,541.3	-251.6	71.7	254.6	10.09	9.38	-6.56
9,604.0	38.10	177.00	9,566.0	-270.3	72.7	273.3	6.13	6.13	0.00
9,636.0	40.80	177.80	9,590.7	-290.6	73.6	293.6	8.59	8.44	2.50
9,668.0	44.20	178.70	9,614.3	-312.2	74.3	315.2	10.79	10.63	2.81
9,699.0	48.10	178.90	9,635.7	-334.6	74.7	337.6	12.59	12.58	0.65
9,731.0	49.50	179.30	9,656.8	-358.7	75.1	361.6	4.47	4.38	1.25
9,762.0	50.30	180.90	9,676.8	-382.4	75.1	385.3	4.72	2.58	5.16
9,795.0	52.20	182.20	9,697.4	-408.1	74.4	411.0	6.53	5.76	3.94
9,827.0	54.90	182.30	9,716.4	-433.8	73.4	436.6	8.44	8.44	0.31
9,859.0	57.70	181.80	9,734.2	-460.4	72.4	463.2	8.85	8.75	-1.56
9,890.0	60.90	180.20	9,750.0	-487.1	72.0	489.8	11.24	10.32	-5.16
9,922.0	64.50	178.96	9,764.7	-515.5	72.2	518.2	11.76	11.25	-3.88
9,954.0	67.20	179.20	9,777.8	-544.7	72.6	547.4	8.47	8.44	0.75
9,985.0	69.40	179.10	9,789.3	-573.5	73.1	576.2	7.10	7.10	-0.32
10,017.0	71.50	179.60	9,800.0	-603.6	73.4	606.3	6.73	6.56	1.56
10,049.0	73.80	180.10	9,809.5	-634.2	73.5	636.8	7.34	7.19	1.56
10,079.0	76.40	180.70	9,817.2	-663.2	73.3	665.8	8.88	8.67	2.00
10,111.0	80.20	180.90	9,823.7	-694.5	72.9	697.0	11.89	11.88	0.63
10,143.0	82.80	180.80	9,828.4	-726.1	72.4	728.6	8.13	8.13	-0.31
10,174.0	84.00	180.90	9,832.0	-756.9	71.9	759.4	3.88	3.87	0.32
10,206.0	86.40	180.40	9,834.7	-788.8	71.6	791.2	7.66	7.50	-1.56
10,231.0	88.70	180.80	9,835.7	-813.8	71.3	816.1	9.34	9.20	1.60
10,263.0	90.90	180.60	9,835.9	-845.8	70.9	848.1	6.90	6.88	-0.63
10,326.0	89.70	180.40	9,835.5	-908.8	70.4	911.0	1.93	-1.90	-0.32
10,390.0	89.30	180.40	9,836.1	-972.8	69.9	974.9	0.63	-0.63	0.00
10,454.0	89.30	180.60	9,836.9	-1,036.8	69.4	1,038.8	0.31	0.00	0.31
10,515.0	88.30	180.20	9,838.1	-1,097.7	68.9	1,099.7	1.77	-1.64	-0.66
10,579.0	88.20	180.40	9,840.1	-1,161.7	68.6	1,163.6	0.35	-0.16	0.31
10,642.0	88.70	178.80	9,841.8	-1,224.7	69.0	1,226.5	2.66	0.79	-2.54
10,706.0	89.10	178.40	9,843.0	-1,288.7	70.6	1,290.5	0.88	0.63	-0.63
10,769.0	89.90	178.60	9,843.6	-1,351.6	72.2	1,353.5	1.31	1.27	0.32
10,833.0	89.90	176.30	9,843.7	-1,415.6	75.1	1,417.5	3.59	0.00	-3.59
10,896.0	90.30	175.70	9,843.6	-1,478.4	79.5	1,480.5	1.14	0.63	-0.95
10,960.0	90.10	176.70	9,843.4	-1,542.3	83.7	1,544.5	1.59	-0.31	1.56



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9 DM Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Site:	Section 9-26S-33E Salado Draw 9	MD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Well:	Salado Draw 9 DM Federal Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
11,024.0	89.80	177.40	9,843.4	-1,606.2	87.0	1,608.5	1.19	-0.47	1.09
11,086.0	90.50	177.80	9,843.3	-1,668.1	89.6	1,670.5	1.30	1.13	0.65
11,150.0	89.20	179.30	9,843.4	-1,732.1	91.2	1,734.4	3.10	-2.03	2.34
11,213.0	89.10	179.00	9,844.4	-1,795.1	92.2	1,797.4	0.50	-0.16	-0.48
11,276.0	87.10	178.40	9,846.4	-1,858.0	93.6	1,860.4	3.31	-3.17	-0.95
11,339.0	87.30	178.40	9,849.5	-1,920.9	95.4	1,923.3	0.32	0.32	0.00
11,402.0	89.00	179.10	9,851.6	-1,983.9	96.7	1,986.2	2.92	2.70	1.11
11,466.0	89.20	179.10	9,852.6	-2,047.9	97.7	2,050.2	0.31	0.31	0.00
11,529.0	89.30	178.90	9,853.4	-2,110.9	98.8	2,113.2	0.35	0.16	-0.32
11,593.0	89.40	178.60	9,854.1	-2,174.8	100.2	2,177.1	0.49	0.16	-0.47
11,657.0	90.00	178.30	9,854.4	-2,238.8	102.0	2,241.1	1.05	0.94	-0.47
11,720.0	90.70	178.60	9,854.1	-2,301.8	103.7	2,304.1	1.21	1.11	0.48
11,784.0	89.10	177.70	9,854.2	-2,365.8	105.7	2,368.1	2.87	-2.50	-1.41
11,847.0	89.10	177.30	9,855.2	-2,428.7	108.5	2,431.1	0.63	0.00	-0.63
11,911.0	89.60	177.20	9,855.9	-2,492.6	111.6	2,495.1	0.80	0.78	-0.16
11,974.0	90.10	176.50	9,856.1	-2,555.5	115.0	2,558.1	1.37	0.79	-1.11
12,038.0	90.40	176.60	9,855.8	-2,619.4	118.9	2,622.1	0.49	0.47	0.16
12,101.0	90.90	176.40	9,855.1	-2,682.3	122.7	2,685.1	0.85	0.79	-0.32
12,165.0	91.00	176.00	9,854.0	-2,746.1	127.0	2,749.1	0.64	0.16	-0.63
12,228.0	91.40	175.20	9,852.7	-2,808.9	131.8	2,812.0	1.42	0.63	-1.27
12,292.0	91.30	176.30	9,851.2	-2,872.7	136.5	2,876.0	1.73	-0.16	1.72
12,355.0	89.80	176.90	9,850.6	-2,935.6	140.3	2,938.9	2.56	-2.38	0.95
12,419.0	89.10	176.60	9,851.2	-2,999.5	143.9	3,002.9	1.19	-1.09	-0.47
12,482.0	89.00	177.40	9,852.2	-3,062.4	147.2	3,065.9	1.28	-0.16	1.27
12,546.0	89.40	177.00	9,853.1	-3,126.3	150.3	3,129.9	0.88	0.63	-0.63
12,609.0	87.60	177.40	9,854.8	-3,189.2	153.4	3,192.9	2.93	-2.86	0.63
12,673.0	87.80	177.40	9,857.3	-3,253.1	156.3	3,256.8	0.31	0.31	0.00
12,736.0	88.40	177.20	9,859.4	-3,316.0	159.3	3,319.8	1.00	0.95	-0.32
12,800.0	88.70	176.40	9,861.0	-3,379.9	162.8	3,383.8	1.33	0.47	-1.25
12,863.0	89.00	177.30	9,862.3	-3,442.8	166.3	3,446.8	1.51	0.48	1.43
12,927.0	90.50	177.00	9,862.6	-3,506.7	169.5	3,510.8	2.39	2.34	-0.47
12,990.0	91.30	176.60	9,861.6	-3,569.6	173.0	3,573.7	1.42	1.27	-0.63
13,054.0	90.20	176.60	9,860.8	-3,633.5	176.8	3,637.7	1.72	-1.72	0.00
13,117.0	89.80	177.50	9,860.8	-3,696.4	180.0	3,700.7	1.56	-0.63	1.43
13,180.0	90.60	176.40	9,860.5	-3,759.3	183.4	3,763.7	2.16	1.27	-1.75
13,211.0	91.20	176.70	9,860.1	-3,790.2	185.2	3,794.7	2.16	1.94	0.97
13,242.0	91.80	176.50	9,859.2	-3,821.2	187.1	3,825.7	2.04	1.94	-0.65
13,306.0	90.10	177.10	9,858.2	-3,885.1	190.7	3,889.7	2.82	-2.66	0.94
13,369.0	89.60	176.50	9,858.3	-3,948.0	194.2	3,952.7	1.24	-0.79	-0.95
13,433.0	89.30	175.80	9,859.0	-4,011.8	198.5	4,016.7	1.19	-0.47	-1.09
13,496.0	88.60	177.40	9,860.1	-4,074.7	202.2	4,079.6	2.77	-1.11	2.54
13,560.0	88.80	177.80	9,861.6	-4,138.6	204.9	4,143.6	0.70	0.31	0.63
13,623.0	88.90	179.10	9,862.8	-4,201.6	206.6	4,206.6	2.07	0.16	2.06



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9 DM Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Site:	Section 9-26S-33E Salado Draw 9	MD Reference:	GL3327 + 20 @ 3347.0usft (Patterson #36)
Well:	Salado Draw 9 DM Federal Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
13,686.0	89.80	178.70	9,863.5	-4,264.6	207.8	4,269.6	1.56	1.43	-0.63
13,748.0	90.10	178.70	9,863.6	-4,326.5	209.2	4,331.6	0.48	0.48	0.00
13,811.0	89.10	179.20	9,864.0	-4,389.5	210.4	4,394.5	1.77	-1.59	0.79
13,874.0	90.90	178.90	9,864.0	-4,452.5	211.4	4,457.5	2.90	2.86	-0.48
13,937.0	92.00	179.20	9,862.4	-4,515.5	212.4	4,520.5	1.81	1.75	0.48
13,989.0	93.10	178.60	9,860.1	-4,567.4	213.4	4,572.4	2.41	2.12	-1.15
14,040.0	93.10	178.60	9,857.4	-4,618.3	214.7	4,623.3	0.00	0.00	0.00
14040' MD Projected to Bit - PBHL Salado Draw 9 DM Federal Com #1H - PBHL Salado Draw 9 DM Fed Com. #1H 2									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,077.0	9,074.2	-116.6	67.3	9077' MD MS Gryo Survey
14,040.0	9,857.4	-4,618.3	214.7	14040' MD Projected to Bit