

Results of Directional Survey

API number:	30-025-41843		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	SALADO DRAW 10 A3DM FEE # 1H

surface	ULSTR:	D	10	T 26S	R 33E
				300 FNL	500 FWL

BH Loc	ULSTR:	M	10	T 26S	R 33E
14245	MD	9983.9	TVD	340 FSL	561 FWL
				4940 FNL	

Top Perf/OH	ULSTR:	D	10	T 26S	R 33E
10200	MD	9897.5	TVD	898 FNL	483 FWL

Bot Perf/OH	ULSTR:	M	10	T 26S	R 33E
14118	MD	9984.8	TVD	467 FSL	553 FWL
				4813 FNL	

	MD	N/S	E/W	VD
	10197.00	-595.10	-17.40	9897.20
TOP PERFS/OH	10200.00	-598.09	-17.28	9897.48
	10228.00	-626.00	-16.20	9900.10
	14035.00	-4429.90	49.30	9984.40
BOT PERFS/OH	14118.00	-4512.81	52.84	9984.75
	14131.00	-4525.80	53.40	9984.80

NEXT TO LAST	14200.00	-4594.60	57.50	9984.80
LAST READING	14245.00	-4639.50	60.50	9983.90
TD	14245.00	-4639.50	60.50	9983.90

Surface Location	300	FN	500	FW
Projected BHL	4940	FN	561	FW
Location of				
Top Perfs/OH	898	FN	483	FW
Bottom Perfs/OH	4813	FN	553	FW

SUMMARY of Subsurface Locations

Surface Location	D-10-26S-33E	300	FN	500	FW	Vert. Depth
Top Perfs/OH	D-10-26S-33E	898	FN	483	FW	9897.48
Bottom Perfs/OH	M-10-26S-33E	4813	FN	553	FW	9984.75
Projected TD	M-10-26S-33E	4940	FN	561	FW	9983.90

DEC 23 2014

HOBBS OGD



DEC 16 2014



COMPANY: Mewbourne Oil Company
WELL: Salado Draw 10 A3DM Fee #1H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 36

RECEIVED

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.80°

OFFICE: 936.582.7296

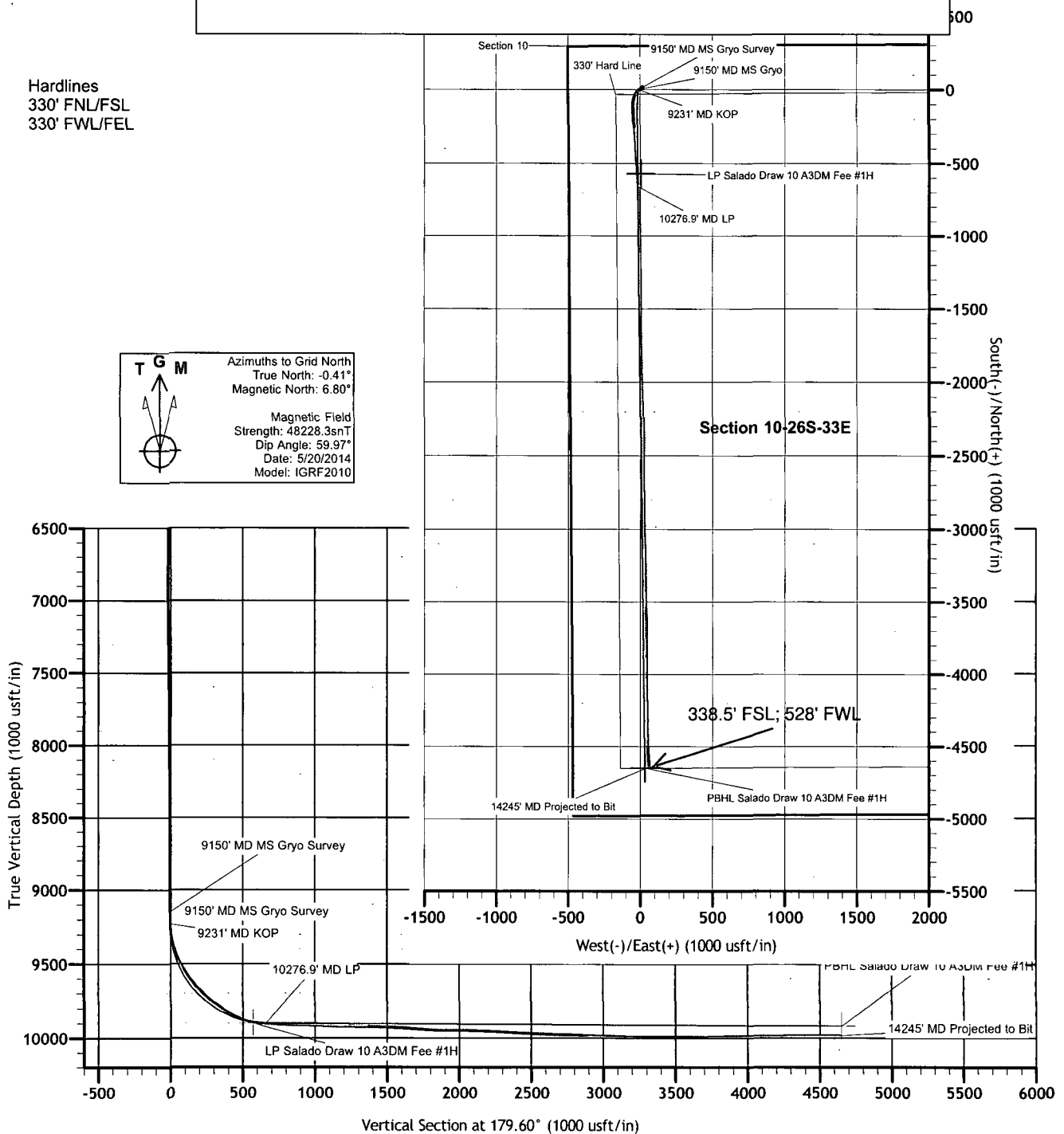
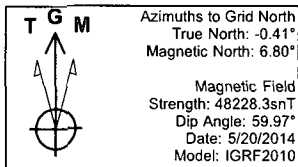
GEODETTIC ZONE: New Mexico East 3001
3330 + 20 @ 3350.0usft (Patterson 36)
GROUND ELEVATION: 3330.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	387963.80	737509.90	32° 3' 51.511 N	103° 33' 59.881 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	9150.0	1.34	288.14	9149.4	2.3	-9.8	0.00	0.00	-2.4	
2	9231.0	1.34	288.14	9230.4	2.9	-11.6	0.00	0.00	-3.0	
3	10276.9	89.71	179.28	9900.0	-658.6	-18.0	8.62	-108.87	658.5	
4	14267.3	89.71	179.28	9920.0	-4648.7	32.5	0.00	0.00	4648.8	PBHL Salado Draw 10 A3DM Fee #1H

Hardlines
330' FNL/FSL
330' FWL/FEL





HOBBSOCD

DEC 16 2014

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Mewbourne Oil Company .

Lea County N.M.

Section 10-26S-33E Salado Draw 10 A3DM Fee #1H

Salado Draw 10 A3DM Fee #1H

Salado Draw 10 A3DM Fee #1H

Design: Salado Draw 10 A3DM Fee #1H

Standard Survey Report

13 October, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 A3DM Fee #1H
Project:	Lea County N.M.	TVD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Site:	Section 10-26S-33E Salado Draw 10 A3DM Fee #1H	MD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Well:	Salado Draw 10 A3DM Fee #1H	North Reference:	Grid
Wellbore:	Salado Draw 10 A3DM Fee #1H	Survey Calculation Method:	Minimum Curvature
Design:	Salado Draw 10 A3DM Fee #1H	Database:	Stryker_EDM

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 10-26S-33E Salado Draw 10 A3DM Fee #1H				
Site Position:		Northing:	387,963.80 usft	Latitude:	32° 3' 51.511 N
From:	Map	Easting:	737,509.90 usft	Longitude:	103° 33' 59.881 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Salado Draw 10 A3DM Fee #1H				
Well Position	+N/-S	0.0 usft	Northing:	387,963.80 usft	Latitude: 32° 3' 51.511 N
	+E/-W	0.0 usft	Easting:	737,509.90 usft	Longitude: 103° 33' 59.881 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,330.0 usft

Wellbore	Salado Draw 10 A3DM Fee #1H				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/20/2014	7.21	59.97	48,228

Design	Salado Draw 10 A3DM Fee #1H				
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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	179.60

Survey Program	Date 10/13/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	9,150.0	MS Gyro Survey (Salado Draw 10 A3DM	GyroFlex		
9,248.0	14,245.0	MWD Survey #2 (Salado Draw 10 A3DM F	MWD	MWD v3:standard declination	

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	0.52	48.77	100.0	0.3	0.3	-0.3	0.52	0.52	0.00	
200.0	0.50	72.13	200.0	0.7	1.1	-0.7	0.21	-0.02	23.36	
300.0	0.67	57.04	300.0	1.2	2.0	-1.2	0.23	0.17	-15.09	
400.0	0.65	42.44	400.0	1.9	2.9	-1.9	0.17	-0.02	-14.60	
500.0	0.64	47.51	500.0	2.7	3.7	-2.7	0.06	-0.01	5.07	
600.0	0.88	40.59	600.0	3.7	4.6	-3.6	0.26	0.24	-6.92	
700.0	0.89	14.92	700.0	5.0	5.3	-5.0	0.39	0.01	-25.67	
800.0	0.93	6.29	799.9	6.6	5.6	-6.5	0.14	0.04	-8.63	



Stryker Directional Survey Report



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Site:	Section 10-26S-33E Salado Draw 10 A3DM Fee #1H	MD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Well:	Salado Draw 10 A3DM Fee #1H	North Reference:	Grid
Wellbore:	Salado Draw 10 A3DM Fee #1H	Survey Calculation Method:	Minimum Curvature
Design:	Salado Draw 10 A3DM Fee #1H	Database:	Stryker_EDM

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)
900.0	1.01	7.10	899.9	8.2	5.8	-8.2	0.08	0.08	0.81
1,000.0	0.85	349.67	999.9	9.9	5.7	-9.8	0.32	-0.16	-17.43
1,100.0	0.48	281.87	1,099.9	10.7	5.2	-10.6	0.80	-0.37	-67.80
1,200.0	0.28	216.36	1,199.9	10.6	4.6	-10.5	0.44	-0.20	-65.51
1,300.0	0.45	122.04	1,299.9	10.2	4.8	-10.1	0.55	0.17	-94.32
1,400.0	0.62	39.67	1,399.9	10.4	5.5	-10.3	0.72	0.17	-82.37
1,500.0	0.84	38.90	1,499.9	11.3	6.3	-11.3	0.22	0.22	-0.77
1,600.0	0.87	33.06	1,599.9	12.6	7.2	-12.5	0.09	0.03	-5.84
1,700.0	0.74	27.81	1,699.9	13.8	7.9	-13.7	0.15	-0.13	-5.25
1,800.0	0.65	59.51	1,799.9	14.6	8.7	-14.6	0.39	-0.09	31.70
1,900.0	0.50	338.81	1,899.9	15.3	9.0	-15.3	0.75	-0.15	-80.70
2,000.0	0.52	254.40	1,999.9	15.6	8.4	-15.5	0.69	0.02	-84.41
2,100.0	0.61	150.93	2,099.9	15.0	8.3	-15.0	0.89	0.09	-103.47
2,200.0	0.86	98.95	2,199.9	14.4	9.3	-14.4	0.68	0.25	-51.98
2,300.0	0.70	43.41	2,299.8	14.8	10.4	-14.7	0.74	-0.16	-55.54
2,400.0	0.55	343.62	2,399.8	15.7	10.7	-15.6	0.64	-0.15	-59.79
2,500.0	0.23	275.36	2,499.8	16.1	10.4	-16.1	0.51	-0.32	-68.26
2,600.0	0.30	131.16	2,599.8	16.0	10.4	-15.9	0.50	0.07	-144.20
2,700.0	0.67	53.82	2,699.8	16.2	11.0	-16.1	0.67	0.37	-77.34
2,800.0	0.63	10.41	2,799.8	17.0	11.6	-17.0	0.48	-0.04	-43.41
2,900.0	0.29	319.69	2,899.8	17.8	11.5	-17.7	0.50	-0.34	-50.72
3,000.0	0.19	103.95	2,999.8	17.9	11.5	-17.9	0.46	-0.10	144.26
3,100.0	0.84	59.35	3,099.8	18.3	12.3	-18.2	0.72	0.65	-44.60
3,200.0	1.00	47.97	3,199.8	19.2	13.6	-19.1	0.24	0.16	-11.38
3,300.0	1.07	49.91	3,299.8	20.4	15.0	-20.3	0.08	0.07	1.94
3,400.0	1.02	45.41	3,399.8	21.6	16.3	-21.5	0.10	-0.05	-4.50
3,500.0	0.31	346.31	3,499.8	22.5	16.9	-22.4	0.90	-0.71	-59.10
3,600.0	0.06	85.85	3,599.8	22.8	16.9	-22.7	0.33	-0.25	99.54
3,700.0	0.23	70.77	3,699.8	22.9	17.1	-22.7	0.17	0.17	-15.08
3,800.0	0.27	61.53	3,799.8	23.0	17.5	-22.9	0.06	0.04	-9.24
3,900.0	0.11	17.13	3,899.8	23.2	17.8	-23.1	0.21	-0.16	-44.40
4,000.0	0.16	258.85	3,999.8	23.3	17.6	-23.2	0.23	0.05	-118.28
4,100.0	0.93	171.02	4,099.8	22.5	17.6	-22.4	0.94	0.77	-87.83
4,200.0	0.58	121.15	4,199.8	21.4	18.2	-21.3	0.71	-0.35	-49.87
4,300.0	0.85	178.06	4,299.7	20.4	18.7	-20.3	0.72	0.27	56.91
4,400.0	1.12	192.09	4,399.7	18.7	18.5	-18.6	0.36	0.27	14.03
4,500.0	1.10	173.78	4,499.7	16.8	18.4	-16.7	0.35	-0.02	-18.31
4,600.0	0.73	134.78	4,599.7	15.4	18.9	-15.3	0.70	-0.37	-39.00
4,700.0	0.75	120.03	4,699.7	14.6	19.9	-14.5	0.19	0.02	-14.75
4,800.0	0.54	92.84	4,799.7	14.3	21.0	-14.1	0.37	-0.21	-27.19
4,900.0	0.05	88.08	4,899.7	14.3	21.5	-14.1	0.49	-0.49	-4.76
5,000.0	0.18	118.82	4,999.7	14.2	21.7	-14.0	0.14	0.13	30.74



Stryker Directional Survey Report



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Project:	Lea County N.M.	TVD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Site:	Section 10-26S-33E Salado Draw 10 A3DM Fee #1H	MD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Well:	Salado Draw 10 A3DM Fee #1H	North Reference:	Grid
Wellbore:	Salado Draw 10 A3DM Fee #1H	Survey Calculation Method:	Minimum Curvature
Design:	Salado Draw 10 A3DM Fee #1H	Database:	Stryker_EDM

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)
5,100.0	0.17	91.33	5,099.7	14.1	22.0	-13.9	0.08	-0.01	-27.49
5,200.0	0.12	125.27	5,199.7	14.0	22.2	-13.9	0.10	-0.05	33.94
5,300.0	0.23	78.69	5,299.7	14.0	22.5	-13.9	0.17	0.11	-46.58
5,400.0	0.30	124.93	5,399.7	13.9	22.9	-13.7	0.22	0.07	46.24
5,500.0	0.22	123.10	5,499.7	13.7	23.3	-13.5	0.08	-0.08	-1.83
5,600.0	0.16	201.61	5,599.7	13.4	23.4	-13.3	0.24	-0.06	78.51
5,700.0	0.20	277.81	5,699.7	13.3	23.2	-13.1	0.22	0.04	76.20
5,800.0	0.31	341.06	5,799.7	13.6	22.9	-13.4	0.28	0.11	63.25
5,900.0	0.25	321.90	5,899.7	14.0	22.7	-13.9	0.11	-0.06	-19.16
6,000.0	0.39	345.23	5,999.7	14.5	22.4	-14.4	0.19	0.14	23.33
6,100.0	0.39	307.33	6,099.7	15.1	22.1	-14.9	0.25	0.00	-37.90
6,200.0	0.27	333.96	6,199.7	15.5	21.7	-15.3	0.19	-0.12	26.63
6,300.0	0.41	303.65	6,299.7	15.9	21.3	-15.7	0.22	0.14	-30.31
6,400.0	0.23	290.20	6,399.7	16.1	20.8	-16.0	0.19	-0.18	-13.45
6,500.0	0.23	279.22	6,499.7	16.3	20.4	-16.1	0.04	0.00	-10.98
6,600.0	0.28	278.43	6,599.7	16.3	20.0	-16.2	0.05	0.05	-0.79
6,700.0	0.34	246.29	6,699.7	16.2	19.5	-16.1	0.18	0.06	-32.14
6,800.0	0.52	282.03	6,799.7	16.2	18.8	-16.1	0.31	0.18	35.74
6,900.0	0.38	315.18	6,899.7	16.5	18.1	-16.4	0.29	-0.14	33.15
7,000.0	0.24	252.20	6,999.7	16.7	17.7	-16.6	0.35	-0.14	-62.98
7,100.0	0.64	223.29	7,099.7	16.2	17.1	-16.1	0.45	0.40	-28.91
7,200.0	0.80	216.90	7,199.6	15.3	16.3	-15.2	0.18	0.16	-6.39
7,300.0	0.80	218.95	7,299.6	14.2	15.4	-14.1	0.03	0.00	2.05
7,400.0	0.70	221.00	7,399.6	13.2	14.6	-13.1	0.10	-0.10	2.05
7,500.0	0.80	221.06	7,499.6	12.2	13.7	-12.1	0.10	0.10	0.06
7,600.0	0.62	219.79	7,599.6	11.2	12.9	-11.2	0.18	-0.18	-1.27
7,700.0	0.81	211.75	7,699.6	10.2	12.2	-10.1	0.21	0.19	-8.04
7,800.0	0.95	225.06	7,799.6	9.0	11.2	-9.0	0.25	0.14	13.31
7,900.0	0.89	230.89	7,899.6	8.0	10.0	-7.9	0.11	-0.06	5.83
8,000.0	0.92	240.66	7,999.6	7.1	8.7	-7.0	0.16	0.03	9.77
8,100.0	0.88	242.26	8,099.6	6.3	7.4	-6.3	0.05	-0.04	1.60
8,200.0	0.81	252.58	8,199.5	5.8	6.0	-5.7	0.17	-0.07	10.32
8,300.0	0.91	236.58	8,299.5	5.1	4.7	-5.1	0.26	0.10	-16.00
8,400.0	0.86	247.34	8,399.5	4.4	3.3	-4.4	0.17	-0.05	10.76
8,500.0	0.84	248.51	8,499.5	3.8	1.9	-3.8	0.03	-0.02	1.17
8,600.0	0.82	240.66	8,599.5	3.2	0.6	-3.2	0.12	-0.02	-7.85
8,700.0	1.00	238.46	8,699.5	2.4	-0.7	-2.4	0.18	0.18	-2.20
8,800.0	1.17	250.43	8,799.5	1.6	-2.4	-1.6	0.28	0.17	11.97
8,900.0	1.20	263.02	8,899.4	1.1	-4.4	-1.2	0.26	0.03	12.59
9,000.0	1.24	283.72	8,999.4	1.3	-6.5	-1.3	0.44	0.04	20.70
9,100.0	1.37	290.67	9,099.4	1.9	-8.7	-2.0	0.20	0.13	6.95
9,150.0	1.34	288.14	9,149.4	2.3	-9.8	-2.4	0.13	-0.06	-5.06

9150' MD MS Gryo Survey



Stryker Directional Survey Report



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Project:	Lea County N.M.	TVD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Site:	Section 10-26S-33E Salado Draw 10 A3DM Fee #1H	MD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
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Wellbore:	Salado Draw 10 A3DM Fee #1H	Survey Calculation Method:	Minimum Curvature
Design:	Salado Draw 10 A3DM Fee #1H	Database:	Stryker_EDM

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)
9,248.0	3.30	219.60	9,247.3	0.5	-12.7	-0.6	3.14	2.00	-69.94
9,280.0	6.80	223.30	9,279.2	-1.6	-14.6	1.5	10.98	10.94	11.56
9,312.0	10.80	218.00	9,310.8	-5.3	-17.7	5.2	12.74	12.50	-16.56
9,344.0	14.50	213.00	9,342.0	-11.0	-21.8	10.9	12.05	11.56	-15.63
9,375.0	17.80	208.80	9,371.8	-18.4	-26.2	18.3	11.29	10.65	-13.55
9,407.0	20.40	206.40	9,402.0	-27.7	-31.0	27.5	8.49	8.13	-7.50
9,439.0	22.60	204.40	9,431.8	-38.3	-36.0	38.1	7.25	6.88	-6.25
9,471.0	24.90	202.20	9,461.1	-50.2	-41.1	49.9	7.70	7.19	-6.88
9,503.0	28.30	194.00	9,489.7	-63.8	-45.5	63.5	15.62	10.63	-25.63
9,535.0	30.60	187.20	9,517.6	-79.2	-48.3	78.9	12.67	7.19	-21.25
9,566.0	33.10	182.60	9,543.9	-95.5	-49.7	95.2	11.24	8.06	-14.84
9,598.0	34.70	178.40	9,570.5	-113.3	-49.9	113.0	8.86	5.00	-13.13
9,630.0	36.40	176.40	9,596.5	-131.9	-49.0	131.6	6.44	5.31	-6.25
9,662.0	38.90	176.40	9,621.9	-151.4	-47.8	151.1	7.81	7.81	0.00
9,694.0	41.70	177.30	9,646.3	-172.1	-46.6	171.8	8.94	8.75	2.81
9,725.0	44.10	177.20	9,669.0	-193.2	-45.6	192.9	7.75	7.74	-0.32
9,757.0	46.10	176.70	9,691.5	-215.8	-44.4	215.5	6.35	6.25	-1.56
9,788.0	47.30	175.30	9,712.8	-238.3	-42.8	238.0	5.08	3.87	-4.52
9,820.0	51.30	174.60	9,733.7	-262.5	-40.7	262.2	12.61	12.50	-2.19
9,852.0	53.50	174.80	9,753.2	-287.7	-38.4	287.4	6.89	6.88	0.63
9,883.0	53.80	174.60	9,771.6	-312.6	-36.1	312.3	1.10	0.97	-0.65
9,915.0	54.10	174.50	9,790.4	-338.3	-33.6	338.1	0.97	0.94	-0.31
9,947.0	56.10	175.90	9,808.7	-364.5	-31.4	364.3	7.21	6.25	4.38
9,979.0	60.00	178.90	9,825.6	-391.6	-30.2	391.4	14.55	12.19	9.38
10,011.0	62.20	178.90	9,841.1	-419.6	-29.7	419.4	6.88	6.88	0.00
10,042.0	64.60	178.20	9,855.0	-447.3	-29.0	447.1	8.00	7.74	-2.26
10,074.0	68.10	175.90	9,867.8	-476.6	-27.4	476.4	12.77	10.94	-7.19
10,106.0	71.90	174.30	9,878.8	-506.5	-24.9	506.3	12.77	11.88	-5.00
10,137.0	76.50	174.40	9,887.2	-536.2	-21.9	536.0	14.84	14.84	0.32
10,169.0	80.70	175.40	9,893.5	-567.4	-19.1	567.3	13.48	13.13	3.13
10,174.9	81.42	175.83	9,894.4	-573.3	-18.7	573.1	14.06	12.13	7.19
LP Salado Draw 10 A3DM Fee #1H									
10,197.0	84.10	177.40	9,897.2	-595.1	-17.4	595.0	14.06	12.15	7.13
10,228.0	85.40	178.20	9,900.1	-626.0	-16.2	625.9	4.92	4.19	2.58
10,260.0	85.20	178.50	9,902.7	-657.9	-15.3	657.7	1.12	-0.63	0.94
10,292.0	86.20	177.80	9,905.1	-689.8	-14.3	689.6	3.81	3.13	-2.19
10,324.0	87.00	177.70	9,907.0	-721.7	-13.0	721.6	2.52	2.50	-0.31
10,356.0	88.60	178.30	9,908.2	-753.6	-11.9	753.5	5.34	5.00	1.88
10,388.0	88.80	178.10	9,908.9	-785.6	-10.9	785.5	0.88	0.63	-0.63
10,419.0	88.80	178.30	9,909.6	-816.6	-9.9	816.5	0.65	0.00	0.65
10,514.0	89.30	177.50	9,911.2	-911.5	-6.4	911.4	0.99	0.53	-0.84
10,609.0	86.70	179.30	9,914.5	-1,006.4	-3.8	1,006.4	3.33	-2.74	1.89
10,704.0	88.10	179.70	9,918.8	-1,101.3	-3.0	1,101.3	1.53	1.47	0.42



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 A3DM Fee #1H
Project:	Lea County N.M.	TVD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Site:	Section 10-26S-33E Salado Draw 10 A3DM Fee #1H	MD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Well:	Salado Draw 10 A3DM Fee #1H	North Reference:	Grid
Wellbore:	Salado Draw 10 A3DM Fee #1H	Survey Calculation Method:	Minimum Curvature
Design:	Salado Draw 10 A3DM Fee #1H	Database:	Stryker_EDM

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)
10,800.0	89.20	178.90	9,921.1	-1,197.3	-1.8	1,197.2	1.42	1.15	-0.83
10,894.0	89.50	179.30	9,922.1	-1,291.2	-0.3	1,291.2	0.53	0.32	0.43
10,989.0	89.00	179.80	9,923.4	-1,386.2	0.4	1,386.2	0.74	-0.53	0.53
11,085.0	86.80	179.90	9,926.9	-1,482.2	0.7	1,482.1	2.29	-2.29	0.10
11,179.0	87.20	179.80	9,931.8	-1,576.0	0.9	1,576.0	0.44	0.43	-0.11
11,274.0	85.90	178.80	9,937.5	-1,670.9	2.1	1,670.8	1.73	-1.37	-1.05
11,369.0	86.30	178.60	9,944.0	-1,765.6	4.2	1,765.6	0.47	0.42	-0.21
11,464.0	88.80	179.00	9,948.0	-1,860.5	6.2	1,860.5	2.66	2.63	0.42
11,560.0	89.70	178.50	9,949.3	-1,956.5	8.3	1,956.5	1.07	0.94	-0.52
11,655.0	90.10	178.20	9,949.5	-2,051.4	11.1	2,051.4	0.53	0.42	-0.32
11,750.0	87.50	177.60	9,951.4	-2,146.3	14.5	2,146.4	2.81	-2.74	-0.63
11,845.0	86.60	178.30	9,956.3	-2,241.1	17.9	2,241.2	1.20	-0.95	0.74
11,940.0	86.20	178.90	9,962.3	-2,335.9	20.2	2,336.0	0.76	-0.42	0.63
12,035.0	87.20	180.60	9,967.8	-2,430.8	20.7	2,430.8	2.07	1.05	1.79
12,130.0	86.80	179.80	9,972.7	-2,525.6	20.3	2,525.7	0.94	-0.42	-0.84
12,225.0	88.30	179.70	9,976.8	-2,620.5	20.7	2,620.6	1.58	1.58	-0.11
12,321.0	89.40	179.10	9,978.7	-2,716.5	21.7	2,716.6	1.31	1.15	-0.63
12,416.0	87.60	179.70	9,981.2	-2,811.5	22.7	2,811.6	2.00	-1.89	0.63
12,511.0	87.80	178.90	9,985.0	-2,906.4	23.9	2,906.5	0.87	0.21	-0.84
12,606.0	88.20	178.60	9,988.3	-3,001.3	26.0	3,001.4	0.53	0.42	-0.32
12,701.0	89.00	178.10	9,990.7	-3,096.2	28.7	3,096.4	0.99	0.84	-0.53
12,797.0	88.60	178.80	9,992.7	-3,192.2	31.3	3,192.3	0.84	-0.42	0.73
12,892.0	89.30	179.70	9,994.4	-3,287.2	32.5	3,287.3	1.20	0.74	0.95
12,987.0	90.60	178.90	9,994.5	-3,382.1	33.7	3,382.3	1.61	1.37	-0.84
13,082.0	89.40	178.20	9,994.5	-3,477.1	36.1	3,477.3	1.46	-1.26	-0.74
13,177.0	90.10	178.70	9,994.9	-3,572.1	38.7	3,572.3	0.91	0.74	0.53
13,272.0	90.10	180.10	9,994.8	-3,667.1	39.7	3,667.3	1.47	0.00	1.47
13,368.0	90.50	179.40	9,994.2	-3,763.1	40.1	3,763.2	0.84	0.42	-0.73
13,463.0	91.90	179.10	9,992.3	-3,858.0	41.3	3,858.2	1.51	1.47	-0.32
13,558.0	91.10	179.30	9,989.8	-3,953.0	42.7	3,953.2	0.87	-0.84	0.21
13,654.0	89.50	180.00	9,989.3	-4,049.0	43.2	4,049.2	1.82	-1.67	0.73
13,749.0	90.50	179.60	9,989.3	-4,144.0	43.6	4,144.2	1.13	1.05	-0.42
13,844.0	91.50	178.90	9,987.6	-4,239.0	44.8	4,239.2	1.28	1.05	-0.74
13,940.0	91.40	178.80	9,985.2	-4,334.9	46.7	4,335.1	0.15	-0.10	-0.10
14,035.0	89.60	178.10	9,984.4	-4,429.9	49.3	4,430.1	2.03	-1.89	-0.74
14,131.0	89.90	177.00	9,984.8	-4,525.8	53.4	4,526.0	1.19	0.31	-1.15
14,200.0	90.70	176.20	9,984.4	-4,594.6	57.5	4,594.9	1.64	1.16	-1.16
14,245.0	90.70	176.20	9,983.9	-4,639.5	60.5	4,639.9	0.00	0.00	0.00

14245' MD Projected to Bit - PBHL Salado Draw 10 A3DM Fee #1H



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Salado Draw 10 A3DM Fee #1H
Project:	Lea County N.M.	TVD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Site:	Section 10-26S-33E Salado Draw 10 A3DM Fee #1H	MD Reference:	3330 + 20 @ 3350.0usft (Patterson 36)
Well:	Salado Draw 10 A3DM Fee #1H	North Reference:	Grid
Wellbore:	Salado Draw 10 A3DM Fee #1H	Survey Calculation Method:	Minimum Curvature
Design:	Salado Draw 10 A3DM Fee #1H	Database:	Stryker_EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,150.0	9,149.4	2.3	-9.8	9150' MD MS Gryo Survey
14,245.0	9,983.9	-4,639.5	60.5	14245' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: University B11 28/21 #A001PI
 COUNTY: Andrews County, TX
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #80



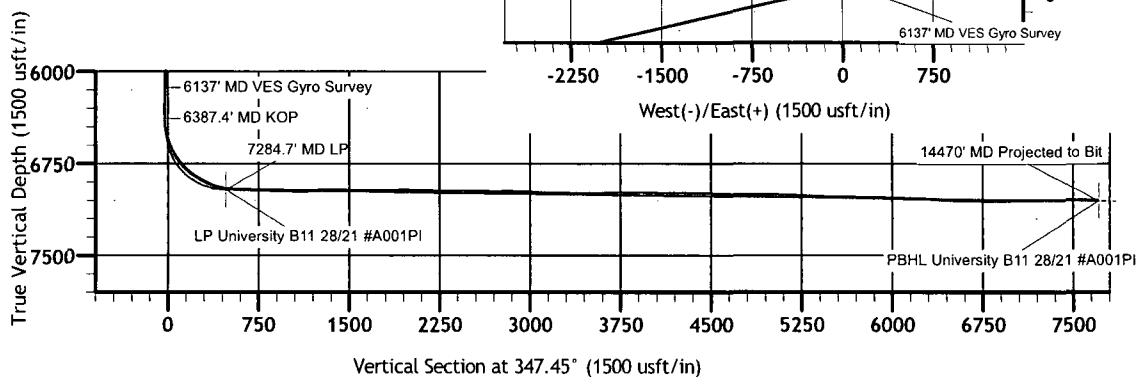
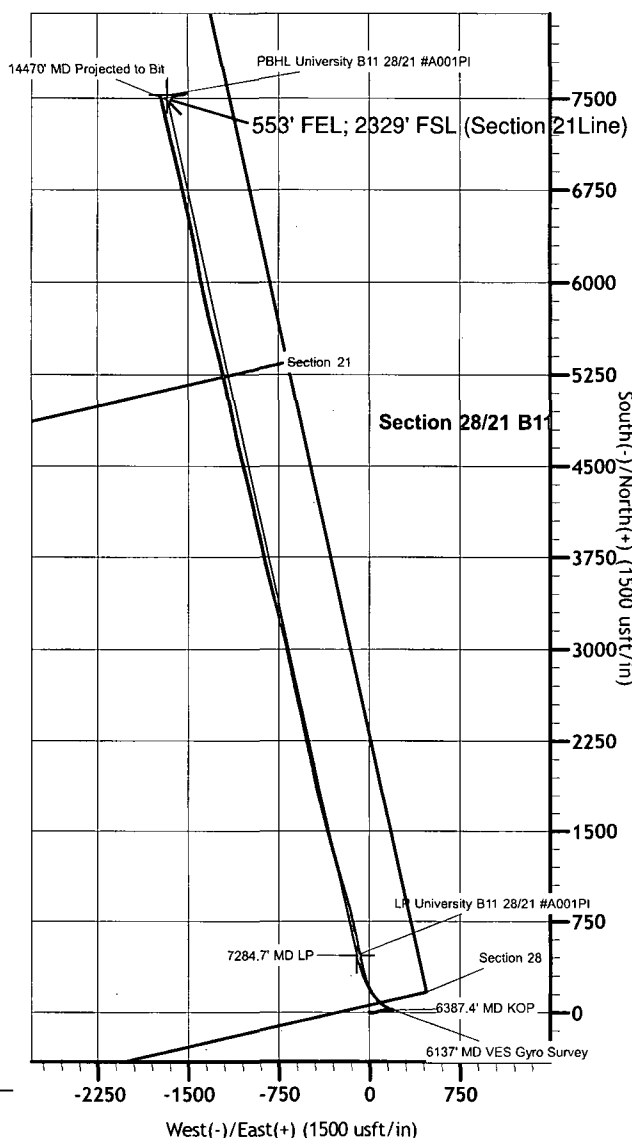
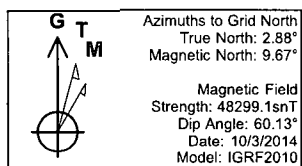
OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 9.67°

GEODETIC ZONE: Texas North Central 4202
 3285 +20 @ 3305.0usft (Patterson #80)
 GROUND ELEVATION: 3285.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	201871.61	365983.77	32° 6' 31.228 N	102° 46' 44.578 W	

PLAN SECTIONS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	6137.0	1.08	103.56	6132.2	22.5	194.8	0.00	0.00	-20.4
2	6387.4	1.08	103.56	6382.5	21.4	199.4	0.00	0.00	-22.5
3	6633.6	27.51	288.40	6619.7	39.2	146.6	11.61	-175.33	6.4
4	7284.7	89.28	347.45	6964.0	468.5	-104.3	11.61	62.30	480.0
5	14517.5	89.28	347.45	7055.0	7528.0	-1675.6	0.00	0.00	7712.3
									LP University B11 28/21 #A001PI
									PBHL University B11 28/21 #A001PI





Job Number: SVMO-141317
 Company: Mewbourne Oil & Gas
 Lease/Well: Salado Draw 10 A3DM Fee 1H
 Location: Lea County, NM
 Rig Name: Patterson #36
 RKB: 20'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 6.80°
 Grid: East To Grid North
 File name: S:\2014SU~1\MEWBOU~1\MO\SALADO~1\10A3DM~1\1H.SVY
 Date/Time: 07-Oct-14 / 11:54
 Curve Name: Surface - 9150' M.D. (SRG)

MS SURVEY

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 179.60
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 9,150' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.

Daniel West
 MS Energy Services

10/7/14
 Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.52	48.77	100.00	.30	.34	-.30	.45	48.77	.52
200.00	.50	72.13	199.99	.73	1.10	-.72	1.32	56.30	.21
300.00	.67	57.04	299.99	1.18	2.00	-1.17	2.33	59.42	.23
400.00	.65	42.44	399.98	1.92	2.88	-1.90	3.46	56.27	.17
500.00	.64	47.51	499.98	2.72	3.67	-2.69	4.57	53.50	.06
600.00	.88	40.59	599.97	3.68	4.58	-3.64	5.88	51.26	.26
700.00	.89	14.92	699.96	5.01	5.28	-4.97	7.28	46.51	.39
800.00	.93	6.29	799.94	6.57	5.57	-6.53	8.61	40.31	.14
900.00	1.01	7.10	899.93	8.25	5.77	-8.21	10.07	34.97	.08

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	.85	349.67	999.92	9.85	5.75	-9.81	11.41	30.25	.32
1100.00	.48	281.87	1099.91	10.67	5.20	-10.63	11.87	25.99	.80
1200.00	.28	216.36	1199.91	10.56	4.65	-10.53	11.54	23.76	.44
1300.00	.45	122.04	1299.91	10.15	4.84	-10.12	11.25	25.47	.55
1400.00	.62	39.67	1399.90	10.36	5.51	-10.32	11.74	28.02	.72
1500.00	.84	38.90	1499.90	11.35	6.32	-11.30	12.99	29.11	.22
1600.00	.87	33.06	1599.89	12.56	7.19	-12.50	14.47	29.81	.09
1700.00	.74	27.81	1699.88	13.76	7.91	-13.71	15.87	29.89	.15
1800.00	.65	59.51	1799.87	14.62	8.70	-14.56	17.01	30.75	.39
1900.00	.50	338.81	1899.86	15.32	9.03	-15.25	17.78	30.52	.75
2000.00	.52	254.40	1999.86	15.60	8.44	-15.54	17.74	28.40	.69
2100.00	.61	150.93	2099.86	15.01	8.26	-14.96	17.13	28.81	.89
2200.00	.86	98.95	2199.85	14.43	9.26	-14.37	17.15	32.68	.68
2300.00	.70	43.41	2299.84	14.76	10.42	-14.69	18.07	35.22	.74
2400.00	.55	343.62	2399.84	15.66	10.70	-15.59	18.97	34.35	.64
2500.00	.23	275.36	2499.84	16.14	10.37	-16.07	19.18	32.71	.51
2600.00	.30	131.16	2599.84	15.99	10.37	-15.92	19.05	32.95	.50
2700.00	.67	53.82	2699.83	16.16	11.03	-16.08	19.57	34.32	.67
2800.00	.63	10.41	2799.83	17.05	11.61	-16.97	20.62	34.25	.48
2900.00	.29	319.69	2899.82	17.78	11.54	-17.70	21.20	32.99	.50
3000.00	.19	103.95	2999.82	17.93	11.54	-17.85	21.33	32.76	.46
3100.00	.84	59.35	3099.82	18.27	12.33	-18.18	22.04	34.02	.72
3200.00	1.00	47.97	3199.81	19.23	13.61	-19.13	23.55	35.29	.24
3300.00	1.07	49.91	3299.79	20.41	14.97	-20.31	25.31	36.26	.08
3400.00	1.02	45.41	3399.77	21.64	16.32	-21.52	27.10	37.02	.10
3500.00	.31	346.31	3499.77	22.53	16.89	-22.41	28.15	36.86	.90
3600.00	.06	85.85	3599.77	22.79	16.88	-22.67	28.36	36.52	.33
3700.00	.23	70.77	3699.77	22.86	17.12	-22.74	28.56	36.83	.17
3800.00	.27	61.53	3799.77	23.04	17.52	-22.92	28.94	37.24	.06

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	.11	17.13	3899.76	23.24	17.75	-23.12	29.25	37.37	.21
4000.00	.16	258.85	3999.76	23.31	17.64	-23.19	29.23	37.12	.23
4100.00	.93	171.02	4099.76	22.48	17.63	-22.36	28.57	38.11	.94
4200.00	.58	121.15	4199.75	21.42	18.19	-21.29	28.10	40.35	.71
4300.00	.85	178.06	4299.75	20.41	18.65	-20.28	27.65	42.41	.72
4400.00	1.12	192.09	4399.73	18.72	18.47	-18.59	26.30	44.62	.36
4500.00	1.10	173.78	4499.71	16.81	18.37	-16.68	24.90	47.54	.35
4600.00	.73	134.78	4599.70	15.40	18.93	-15.27	24.40	50.86	.70
4700.00	.75	120.03	4699.69	14.63	19.94	-14.49	24.73	53.74	.19
4800.00	.54	92.84	4799.69	14.28	20.98	-14.13	25.38	55.77	.37
4900.00	.05	88.08	4899.68	14.25	21.50	-14.10	25.79	56.45	.49
5000.00	.18	118.82	4999.68	14.18	21.68	-14.03	25.90	56.81	.14
5100.00	.17	91.33	5099.68	14.10	21.96	-13.95	26.10	57.30	.08
5200.00	.12	125.27	5199.68	14.04	22.20	-13.88	26.26	57.69	.10
5300.00	.23	78.69	5299.68	14.02	22.48	-13.86	26.49	58.06	.17
5400.00	.30	124.93	5399.68	13.91	22.89	-13.75	26.78	58.72	.22
5500.00	.22	123.10	5499.68	13.65	23.27	-13.49	26.98	59.60	.08
5600.00	.16	201.61	5599.68	13.42	23.38	-13.25	26.95	60.15	.24
5700.00	.20	277.81	5699.68	13.31	23.15	-13.15	26.71	60.10	.22
5800.00	.31	341.06	5799.68	13.59	22.89	-13.43	26.62	59.30	.28
5900.00	.25	321.90	5899.68	14.02	22.67	-13.86	26.65	58.27	.11
6000.00	.39	345.23	5999.68	14.52	22.45	-14.36	26.73	57.11	.19
6100.00	.39	307.33	6099.67	15.05	22.09	-14.90	26.73	55.73	.25
6200.00	.27	333.96	6199.67	15.47	21.72	-15.32	26.66	54.53	.19
6300.00	.41	303.65	6299.67	15.88	21.31	-15.73	26.58	53.31	.22
6400.00	.23	290.20	6399.67	16.15	20.83	-16.00	26.36	52.21	.19
6500.00	.23	279.22	6499.67	16.25	20.44	-16.11	26.11	51.52	.04
6600.00	.28	278.43	6599.67	16.32	20.00	-16.18	25.81	50.79	.05
6700.00	.34	246.29	6699.67	16.24	19.49	-16.10	25.37	50.20	.18

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	.52	282.03	6799.66	16.21	18.77	-16.08	24.80	49.19	.31
6900.00	.38	315.18	6899.66	16.54	18.10	-16.41	24.52	47.57	.29
7000.00	.24	252.20	6999.66	16.71	17.66	-16.59	24.32	46.58	.35
7100.00	.64	223.29	7099.66	16.24	17.08	-16.12	23.57	46.44	.45
7200.00	.80	216.90	7199.65	15.28	16.28	-15.16	22.32	46.82	.18
7300.00	.80	218.95	7299.64	14.18	15.42	-14.07	20.95	47.41	.03
7400.00	.70	221.00	7399.63	13.17	14.58	-13.07	19.65	47.91	.10
7500.00	.80	221.06	7499.62	12.18	13.72	-12.09	18.35	48.40	.10
7600.00	.62	219.79	7599.61	11.24	12.92	-11.15	17.12	48.96	.18
7700.00	.81	211.75	7699.61	10.22	12.20	-10.14	15.92	50.03	.21
7800.00	.95	225.06	7799.59	9.04	11.24	-8.96	14.42	51.19	.25
7900.00	.89	230.89	7899.58	7.96	10.05	-7.89	12.82	51.61	.11
8000.00	.92	240.66	7999.57	7.08	8.75	-7.02	11.25	51.02	.16
8100.00	.88	242.26	8099.56	6.33	7.37	-6.28	9.71	49.34	.05
8200.00	.81	252.58	8199.55	5.76	6.01	-5.72	8.33	46.24	.17
8300.00	.91	236.58	8299.53	5.11	4.68	-5.08	6.93	42.46	.26
8400.00	.86	247.34	8399.52	4.38	3.32	-4.36	5.50	37.14	.17
8500.00	.84	248.51	8499.51	3.83	1.95	-3.81	4.29	26.96	.03
8600.00	.82	240.66	8599.50	3.21	.64	-3.20	3.27	11.30	.12
8700.00	1.00	238.46	8699.49	2.40	-.73	-2.41	2.51	343.15	.18
8800.00	1.17	250.43	8799.47	1.60	-2.43	-1.62	2.91	303.36	.28
8900.00	1.20	263.02	8899.45	1.13	-4.43	-1.16	4.58	284.33	.26
9000.00	1.24	283.72	8999.43	1.26	-6.52	-1.31	6.65	280.95	.44
9100.00	1.37	290.67	9099.40	1.94	-8.69	-2.00	8.91	282.58	.20
Last Survey Depth Recorded									
9150.00	1.34	288.14	9149.39	2.33	-9.81	-2.40	10.08	283.38	.13