

15-42831



COMPANY: Mewbourne Oil Company
WELL: Jester 19/30 W2DE Fed Com #1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 243



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.44°

OFFICE: 936.582.7296

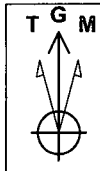
GEODETTIC ZONE: New Mexico East 3001
3218 +25 @ 3243.0usft (Patterson 243)
GROUND ELEVATION: 3218.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	471707.20	530330.80	32° 17' 48.485 N	104° 14' 6.622 W

Slot

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	8725.0	0.28	38.72	8719.8	-58.2	104.0	0.00	0.00	58.0	
2	8898.0	0.28	38.72	8892.8	-57.5	104.5	0.00	0.00	57.4	
3	9800.2	90.00	180.92	9468.0	-630.5	97.0	10.00	142.20	630.3	
4	16594.0	90.00	180.92	9468.0	-7423.4	-12.5	0.00	0.00	7423.4	PBHL Jester 19 W2DM Fed Com #1H



Azimuths to Grid North
True North: -0.05°
Magnetic North: 7.44°

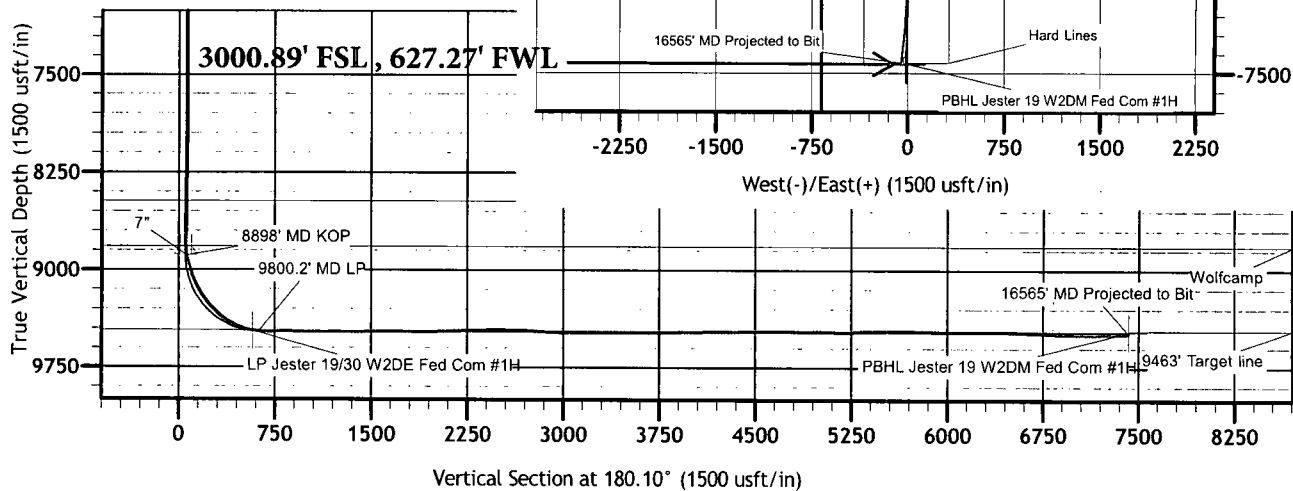
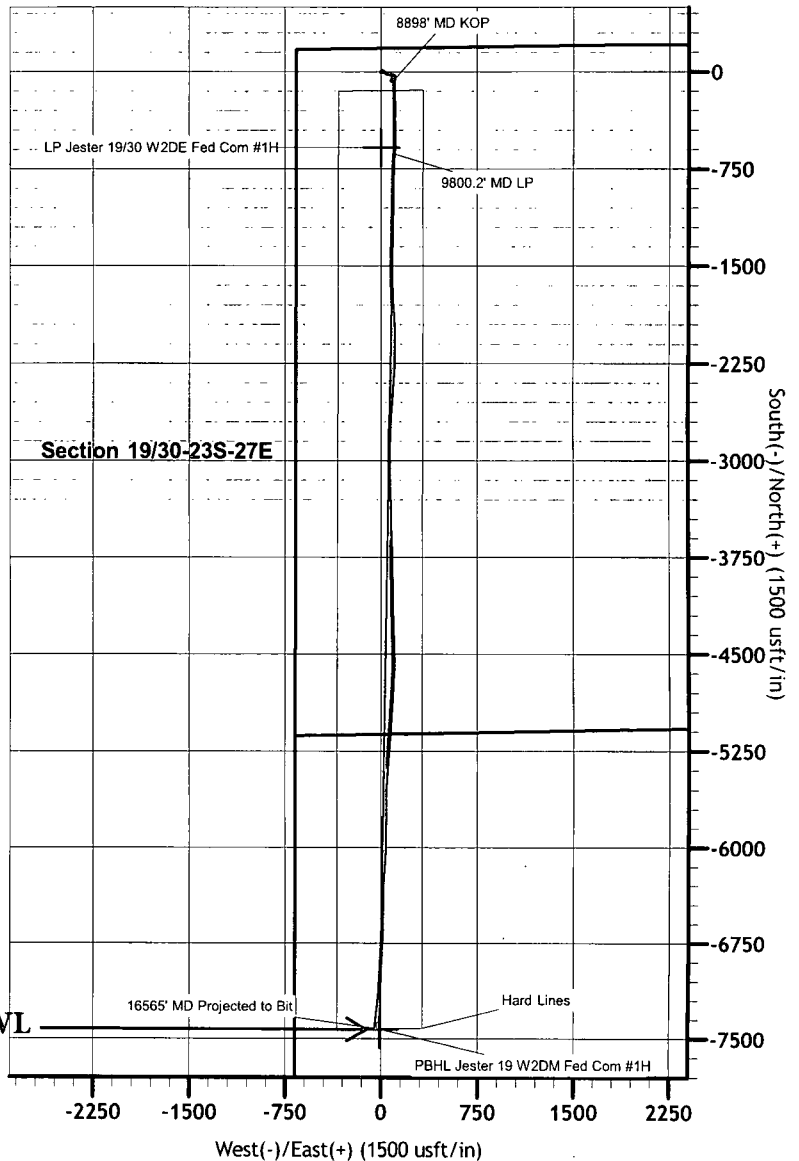
Magnetic Field
Strength: 48130.5nT
Dip Angle: 60.05°
Date: 4/27/2015
Model: IGRF2015

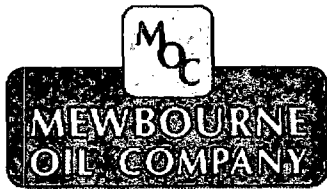
SHL : Section19-23S-27E
185' FNL; 660' FWL
PBHL:Section30-23S-27E
2310' FNL; 660' FWL

NM OIL CONSERVATION
ARTESIA DISTRICT

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Mewbourne Oil Company .

Eddy County, New Mexico

Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1

Jester 19/30 W2DE Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

27 May, 2015





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Jester 19/30 W2DE Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Site:	Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1	MD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Well:	Jester 19/30 W2DE Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy 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		Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1			
Site Position:		Northing:	471,707.20 usft	Latitude:	32° 17' 48.485 N
From:	Map	Easting:	530,330.80 usft	Longitude:	104° 14' 6.622 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	Jester 19/30 W2DE Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	471,707.20 usft	Latitude:	32° 17' 48.485 N
	+E/-W	0.0 usft	Easting:	530,330.80 usft	Longitude:	104° 14' 6.622 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,243.0 usft	Ground Level:	3,218.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/27/2015	7.49	60.05	48,130

Design		Original Hole			
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	180.10	

Survey Program	Date	5/27/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,725.0	MS Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
8,817.0	16,565.0	Stryker MWD Survey (Original Hole)	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	0.57	319.19	100.0	0.4	-0.3	-0.4	0.57	0.57	0.00	
200.0	0.79	352.55	200.0	1.4	-0.7	-1.4	0.44	0.22	33.36	
300.0	1.33	21.60	300.0	3.2	-0.4	-3.2	0.75	0.54	29.05	
400.0	1.50	46.10	399.9	5.2	1.0	-5.2	0.62	0.17	24.50	
500.0	1.49	51.34	499.9	6.9	2.9	-6.9	0.14	-0.01	5.24	
600.0	1.30	60.86	599.9	8.3	4.9	-8.3	0.30	-0.19	9.52	
700.0	1.09	99.11	699.9	8.7	6.9	-8.7	0.81	-0.21	38.25	
800.0	1.21	111.39	799.8	8.1	8.8	-8.2	0.27	0.12	12.28	



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Jester 19/30 W2DE Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Site:	Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1	MD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Well:	Jester 19/30 W2DE Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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	2.45	121.64	899.8	6.6	11.6	-6.7	1.28	1.24	10.25
1,000.0	4.74	118.34	999.6	3.5	17.0	-3.6	2.30	2.29	-3.30
1,100.0	5.40	119.47	1,099.2	-0.7	24.8	0.7	0.67	0.66	1.13
1,200.0	4.95	120.06	1,198.8	-5.2	32.6	5.1	0.45	-0.45	0.59
1,300.0	5.32	109.88	1,298.4	-8.9	40.7	8.9	0.98	0.37	-10.18
1,400.0	6.07	103.58	1,397.9	-11.8	50.2	11.7	0.98	0.75	-6.30
1,500.0	6.07	104.69	1,497.3	-14.3	60.5	14.2	0.12	0.00	1.11
1,600.0	5.85	105.98	1,596.8	-17.1	70.5	17.0	0.26	-0.22	1.29
1,700.0	4.76	109.80	1,696.4	-19.9	79.3	19.8	1.15	-1.09	3.82
1,800.0	3.54	106.82	1,796.1	-22.2	86.1	22.0	1.24	-1.22	-2.98
1,900.0	2.20	117.36	1,896.0	-24.0	90.8	23.8	1.43	-1.34	10.54
2,000.0	1.28	119.33	1,995.9	-25.4	93.5	25.2	0.92	-0.92	1.97
2,100.0	1.22	118.50	2,095.9	-26.5	95.4	26.3	0.06	-0.06	-0.83
2,200.0	1.14	118.27	2,195.9	-27.4	97.2	27.3	0.08	-0.08	-0.23
2,300.0	1.13	117.83	2,295.9	-28.4	98.9	28.2	0.01	-0.01	-0.44
2,400.0	0.87	130.56	2,395.8	-29.3	100.4	29.1	0.34	-0.26	12.73
2,500.0	0.86	116.96	2,495.8	-30.2	101.6	30.0	0.21	-0.01	-13.60
2,600.0	0.77	139.20	2,595.8	-31.0	102.7	30.8	0.33	-0.09	22.24
2,700.0	0.69	154.75	2,695.8	-32.1	103.4	31.9	0.21	-0.08	15.55
2,800.0	0.58	163.36	2,795.8	-33.1	103.8	32.9	0.15	-0.11	8.61
2,900.0	0.57	179.43	2,895.8	-34.1	104.0	33.9	0.16	-0.01	16.07
3,000.0	0.50	190.26	2,995.8	-35.0	103.9	34.8	0.12	-0.07	10.83
3,100.0	0.41	224.90	3,095.8	-35.7	103.6	35.5	0.28	-0.09	34.64
3,200.0	0.56	244.59	3,195.8	-36.1	102.9	36.0	0.22	0.15	19.69
3,300.0	0.58	244.02	3,295.8	-36.6	102.0	36.4	0.02	0.02	-0.57
3,400.0	0.60	248.67	3,395.8	-37.0	101.1	36.8	0.05	0.02	4.65
3,500.0	0.59	242.05	3,495.8	-37.4	100.1	37.2	0.07	-0.01	-6.62
3,600.0	0.56	241.58	3,595.8	-37.9	99.2	37.7	0.03	-0.03	-0.47
3,700.0	0.49	242.01	3,695.8	-38.3	98.4	38.2	0.07	-0.07	0.43
3,800.0	0.25	209.67	3,795.8	-38.7	97.9	38.5	0.31	-0.24	-32.34
3,900.0	0.13	186.42	3,895.8	-39.0	97.8	38.8	0.14	-0.12	-23.25
4,000.0	0.07	350.81	3,995.8	-39.1	97.8	38.9	0.20	-0.06	164.39
4,100.0	0.27	334.00	4,095.8	-38.8	97.7	38.6	0.20	0.20	-16.81
4,200.0	0.24	312.78	4,195.8	-38.4	97.4	38.3	0.10	-0.03	-21.22
4,300.0	0.16	295.14	4,295.8	-38.2	97.1	38.1	0.10	-0.08	-17.64
4,400.0	0.19	289.63	4,395.8	-38.1	96.9	38.0	0.03	0.03	-5.51
4,500.0	0.44	278.10	4,495.8	-38.0	96.3	37.8	0.26	0.25	-11.53
4,600.0	0.47	274.09	4,595.8	-37.9	95.5	37.8	0.04	0.03	-4.01
4,700.0	0.48	276.06	4,695.8	-37.9	94.7	37.7	0.02	0.01	1.97
4,800.0	0.45	279.67	4,795.8	-37.7	93.9	37.6	0.04	-0.03	3.61
4,900.0	0.53	276.36	4,895.7	-37.6	93.1	37.5	0.08	0.08	-3.31
5,000.0	0.40	294.09	4,995.7	-37.4	92.3	37.3	0.19	-0.13	17.73



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Project:	Eddy County, New Mexico	TVD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Site:	Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1	MD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Well:	Jester 19/30 W2DE Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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	0.26	290.94	5,095.7	-37.2	91.7	37.1	0.14	-0.14	-3.15
5,200.0	0.28	204.07	5,195.7	-37.4	91.4	37.2	0.37	0.02	-86.87
5,300.0	0.43	188.39	5,295.7	-37.9	91.3	37.8	0.18	0.15	-15.68
5,400.0	0.43	184.96	5,395.7	-38.7	91.2	38.5	0.03	0.00	-3.43
5,500.0	0.60	232.77	5,495.7	-39.4	90.7	39.2	0.45	0.17	47.81
5,600.0	1.16	199.60	5,595.7	-40.7	90.0	40.5	0.74	0.56	-33.17
5,700.0	2.10	179.94	5,695.7	-43.4	89.7	43.3	1.08	0.94	-19.66
5,800.0	2.01	170.11	5,795.6	-47.0	90.0	46.8	0.36	-0.09	-9.83
5,900.0	1.97	187.47	5,895.6	-50.4	90.0	50.3	0.60	-0.04	17.36
6,000.0	1.31	190.04	5,995.5	-53.3	89.6	53.1	0.66	-0.66	2.57
6,100.0	1.09	216.54	6,095.5	-55.2	88.8	55.0	0.59	-0.22	26.50
6,200.0	1.47	221.21	6,195.5	-56.9	87.4	56.7	0.39	0.38	4.67
6,300.0	1.34	201.20	6,295.4	-58.9	86.2	58.8	0.50	-0.13	-20.01
6,400.0	1.22	155.70	6,395.4	-61.0	86.2	60.8	1.00	-0.12	-45.50
6,500.0	1.45	187.86	6,495.4	-63.2	86.4	63.1	0.77	0.23	32.16
6,600.0	1.64	215.62	6,595.4	-65.6	85.4	65.5	0.76	0.19	27.76
6,700.0	0.89	228.74	6,695.3	-67.3	84.0	67.2	0.80	-0.75	13.12
6,800.0	0.42	314.45	6,795.3	-67.6	83.2	67.4	0.96	-0.47	85.71
6,900.0	0.46	320.73	6,895.3	-67.0	82.7	66.9	0.06	0.04	6.28
7,000.0	0.41	322.88	6,995.3	-66.4	82.2	66.3	0.05	-0.05	2.15
7,100.0	0.60	58.84	7,095.3	-65.8	82.4	65.7	0.76	0.19	95.96
7,200.0	0.20	47.27	7,195.3	-65.5	83.0	65.3	0.41	-0.40	-11.57
7,300.0	0.43	218.55	7,295.3	-65.6	82.9	65.5	0.63	0.23	171.28
7,400.0	0.61	232.91	7,395.3	-66.2	82.2	66.1	0.22	0.18	14.36
7,500.0	0.68	238.63	7,495.3	-66.9	81.3	66.7	0.10	0.07	5.72
7,600.0	0.34	266.18	7,595.3	-67.2	80.5	67.1	0.41	-0.34	27.55
7,700.0	0.89	94.33	7,695.3	-67.3	81.0	67.1	1.23	0.55	-171.85
7,800.0	1.47	80.06	7,795.3	-67.1	83.0	67.0	0.65	0.58	-14.27
7,900.0	2.99	70.81	7,895.2	-66.0	86.7	65.9	1.56	1.52	-9.25
8,000.0	3.03	68.00	7,995.1	-64.2	91.7	64.0	0.15	0.04	-2.81
8,100.0	2.44	80.30	8,094.9	-62.8	96.2	62.7	0.83	-0.59	12.30
8,200.0	1.35	77.75	8,194.9	-62.2	99.5	62.1	1.09	-1.09	-2.55
8,300.0	0.65	83.81	8,294.9	-61.9	101.2	61.8	0.71	-0.70	6.06
8,400.0	1.07	28.00	8,394.9	-61.0	102.2	60.9	0.89	0.42	-55.81
8,500.0	0.67	41.49	8,494.9	-59.8	103.0	59.6	0.45	-0.40	13.49
8,600.0	0.53	27.04	8,594.8	-58.9	103.6	58.7	0.21	-0.14	-14.45
8,700.0	0.28	29.89	8,694.8	-58.3	103.9	58.1	0.25	-0.25	2.85
8,725.0	0.28	38.72	8,719.8	-58.2	104.0	58.0	0.17	0.00	35.32
8,817.0	1.00	277.50	8,811.8	-57.9	103.3	57.7	1.27	0.78	-131.76
8,849.0	4.20	201.60	8,843.8	-59.0	102.6	58.8	12.73	10.00	-237.19
8,880.0	7.90	191.40	8,874.6	-62.1	101.8	61.9	12.38	11.94	-32.90
8,912.0	11.50	186.50	8,906.2	-67.5	101.0	67.3	11.53	11.25	-15.31
8,943.0	13.00	182.10	8,936.5	-74.0	100.5	73.8	5.70	4.84	-14.19

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Well:	Jester 19/30 W2DE Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
8,974.0	15.70	182.00	8,966.5	-81.7	100.2	81.5	8.71	8.71	-0.32
9,006.0	17.70	177.90	8,997.1	-90.9	100.3	90.7	7.25	6.25	-12.81
9,038.0	20.70	175.10	9,027.4	-101.4	100.9	101.2	9.80	9.38	-8.75
9,070.0	23.60	176.80	9,057.0	-113.4	101.8	113.2	9.28	9.06	5.31
9,101.0	26.40	179.30	9,085.1	-126.5	102.2	126.3	9.65	9.03	8.06
9,133.0	28.70	180.10	9,113.5	-141.3	102.3	141.1	7.28	7.19	2.50
9,164.0	29.80	181.30	9,140.5	-156.4	102.1	156.3	4.02	3.55	3.87
9,195.0	32.80	182.20	9,167.0	-172.5	101.6	172.4	9.79	9.68	2.90
9,227.0	34.50	180.80	9,193.6	-190.3	101.1	190.1	5.84	5.31	-4.38
9,258.0	34.80	175.80	9,219.1	-207.9	101.7	207.7	9.22	0.97	-16.13
9,290.0	37.40	175.80	9,245.0	-226.7	103.0	226.5	8.13	8.13	0.00
9,321.0	40.60	177.40	9,269.1	-246.1	104.2	246.0	10.82	10.32	5.16
9,352.0	43.20	179.60	9,292.2	-266.8	104.7	266.6	9.63	8.39	7.10
9,384.0	44.70	184.00	9,315.2	-289.0	104.0	288.8	10.63	4.69	13.75
9,415.0	47.60	183.10	9,336.7	-311.3	102.6	311.1	9.59	9.35	-2.90
9,446.0	51.10	180.60	9,356.9	-334.8	101.9	334.6	12.84	11.29	-8.06
9,478.0	54.80	177.70	9,376.1	-360.4	102.3	360.2	13.64	11.56	-9.06
9,509.0	58.50	177.90	9,393.2	-386.2	103.3	386.0	11.95	11.94	0.65
9,541.0	62.40	178.40	9,409.0	-414.0	104.2	413.9	12.26	12.19	1.56
9,572.0	66.50	176.90	9,422.3	-442.0	105.3	441.8	13.93	13.23	-4.84
9,603.0	70.00	177.50	9,433.8	-470.7	106.7	470.5	11.43	11.29	1.94
9,635.0	71.20	180.00	9,444.4	-500.9	107.4	500.7	8.27	3.75	7.81
9,666.0	74.30	181.60	9,453.6	-530.5	107.0	530.3	11.15	10.00	5.16
9,698.0	78.50	183.50	9,461.2	-561.6	105.6	561.4	14.34	13.13	5.94
9,724.7	80.91	184.36	9,465.9	-587.8	103.8	587.6	9.57	9.03	3.23
LP Jester 19/30 W2DE Fed Com #1H									
9,729.0	81.30	184.50	9,466.6	-592.0	103.4	591.8	9.57	9.04	3.20
9,761.0	85.80	184.40	9,470.2	-623.7	101.0	623.5	14.07	14.06	-0.31
<u>9,851.0</u>	91.60	182.80	<u>9,472.2</u>	<u>-713.5</u>	<u>95.3</u>	<u>713.3</u>	6.68	6.44	-1.78
9,883.0	90.90	182.00	9,471.5	-745.4	94.0	745.3	3.32	-2.19	-2.50
9,977.0	90.90	181.60	9,470.1	-839.4	91.0	839.2	0.43	0.00	-0.43
10,072.0	87.90	179.10	9,471.1	-934.3	90.5	934.2	4.11	-3.16	-2.63
10,166.0	89.40	180.80	9,473.3	-1,028.3	90.5	1,028.1	2.41	1.60	1.81
10,260.0	91.40	182.60	9,472.6	-1,122.3	87.8	1,122.1	2.86	2.13	1.91
10,355.0	89.90	181.20	9,471.5	-1,217.2	84.6	1,217.0	2.16	-1.58	-1.47
10,450.0	89.50	180.90	9,472.0	-1,312.2	82.9	1,312.0	0.53	-0.42	-0.32
10,544.0	90.20	180.90	9,472.3	-1,406.2	81.4	1,406.0	0.74	0.74	0.00
10,639.0	91.50	180.30	9,470.9	-1,501.1	80.4	1,501.0	1.51	1.37	-0.63
10,733.0	90.80	179.40	9,469.0	-1,595.1	80.6	1,595.0	1.21	-0.74	-0.96
10,828.0	89.90	177.80	9,468.4	-1,690.1	83.0	1,689.9	1.93	-0.95	-1.68
10,922.0	86.40	176.40	9,471.4	-1,783.9	87.7	1,783.7	4.01	-3.72	-1.49
11,016.0	90.90	176.87	9,473.6	-1,877.7	93.2	1,877.5	4.81	4.79	0.50

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Jester 19/30 W2DE Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Site:	Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1	MD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Well:	Jester 19/30 W2DE Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
11,110.0	91.90	178.00	9,471.4	-1,971.6	97.4	1,971.4	1.60	1.06	1.20
11,205.0	92.30	179.40	9,467.9	-2,066.5	99.6	2,066.3	1.53	0.42	1.47
11,299.0	93.40	180.80	9,463.2	-2,160.4	99.4	2,160.2	1.89	1.17	1.49
11,394.0	90.00	182.50	9,460.4	-2,255.3	96.7	2,255.1	4.00	-3.58	1.79
11,488.0	91.60	182.90	9,459.1	-2,349.1	92.3	2,349.0	1.75	1.70	0.43
11,582.0	91.30	184.10	9,456.7	-2,442.9	86.5	2,442.8	1.32	-0.32	1.28
11,645.0	91.20	184.50	9,455.3	-2,505.7	81.8	2,505.6	0.65	-0.16	0.63
11,676.0	88.50	184.10	9,455.4	-2,536.7	79.5	2,536.5	8.80	-8.71	-1.29
11,707.0	87.60	184.10	9,456.4	-2,567.6	77.3	2,567.4	2.90	-2.90	0.00
11,739.0	86.60	183.40	9,458.1	-2,599.4	75.2	2,599.3	3.81	-3.13	-2.19
11,770.0	87.00	183.30	9,459.8	-2,630.3	73.4	2,630.2	1.33	1.29	-0.32
11,801.0	87.60	183.70	9,461.3	-2,661.2	71.5	2,661.1	2.33	1.94	1.29
11,833.0	87.60	183.80	9,462.6	-2,693.2	69.4	2,693.0	0.31	0.00	0.31
11,864.0	87.10	183.00	9,464.0	-2,724.1	67.5	2,723.9	3.04	-1.61	-2.58
11,895.0	86.80	182.60	9,465.7	-2,755.0	66.0	2,754.9	1.61	-0.97	-1.29
11,927.0	86.70	181.70	9,467.5	-2,786.9	64.8	2,786.8	2.83	-0.31	-2.81
11,959.0	86.20	181.50	9,469.5	-2,818.8	63.9	2,818.7	1.68	-1.56	-0.63
11,990.0	86.80	180.70	9,471.4	-2,849.8	63.3	2,849.7	3.22	1.94	-2.58
12,022.0	87.70	180.30	9,472.9	-2,881.7	63.1	2,881.6	3.08	2.81	-1.25
12,053.0	88.60	180.10	9,473.9	-2,912.7	63.0	2,912.6	2.97	2.90	-0.65
12,148.0	88.60	180.10	9,476.2	-3,007.7	62.8	3,007.6	0.00	0.00	0.00
12,180.0	90.50	179.40	9,476.5	-3,039.7	62.9	3,039.6	6.33	5.94	-2.19
12,243.0	90.60	179.90	9,475.9	-3,102.7	63.3	3,102.6	0.81	0.16	0.79
12,337.0	89.50	178.60	9,475.8	-3,196.7	64.6	3,196.6	1.81	-1.17	-1.38
12,431.0	89.70	178.70	9,476.4	-3,290.6	66.8	3,290.5	0.24	0.21	0.11
12,526.0	91.10	179.30	9,475.8	-3,385.6	68.4	3,385.5	1.60	1.47	0.63
12,620.0	89.00	178.00	9,475.7	-3,479.6	70.6	3,479.5	2.63	-2.23	-1.38
12,714.0	88.50	177.30	9,477.8	-3,573.5	74.5	3,573.4	0.91	-0.53	-0.74
12,746.0	90.50	177.90	9,478.0	-3,605.5	75.8	3,605.3	6.53	6.25	1.88
12,777.0	92.00	178.70	9,477.4	-3,636.4	76.8	3,636.3	5.48	4.84	2.58
12,808.0	92.00	178.60	9,476.3	-3,667.4	77.5	3,667.3	0.32	0.00	-0.32
12,903.0	90.20	178.40	9,474.4	-3,762.4	80.0	3,762.2	1.91	-1.89	-0.21
12,997.0	91.60	179.40	9,473.0	-3,856.3	81.8	3,856.2	1.83	1.49	1.06
13,092.0	90.20	179.40	9,471.5	-3,951.3	82.8	3,951.1	1.47	-1.47	0.00
13,187.0	90.90	178.90	9,470.6	-4,046.3	84.2	4,046.1	0.91	0.74	-0.53
13,281.0	90.20	178.60	9,469.7	-4,140.3	86.2	4,140.1	0.81	-0.74	-0.32
13,375.0	89.50	178.00	9,469.9	-4,234.2	89.0	4,234.1	0.98	-0.74	-0.64
13,470.0	91.50	178.70	9,469.1	-4,329.2	91.8	4,329.0	2.23	2.11	0.74
13,564.0	91.00	179.10	9,467.0	-4,423.1	93.6	4,423.0	0.68	-0.53	0.43
13,658.0	89.90	178.40	9,466.3	-4,517.1	95.6	4,516.9	1.39	-1.17	-0.74
13,753.0	91.00	180.40	9,465.5	-4,612.1	96.6	4,611.9	2.40	1.16	2.11
13,848.0	90.40	183.40	9,464.4	-4,707.0	93.5	4,706.8	3.22	-0.63	3.16
13,943.0	87.50	183.40	9,466.1	-4,801.8	87.8	4,801.7	3.05	-3.05	0.00



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Jester 19/30 W2DE Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Site:	Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1	MD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Well:	Jester 19/30 W2DE Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)	
14,037.0	90.40	184.80	9,467.9	-4,895.6	81.1	4,895.4	3.43	3.09	1.49	
14,132.0	90.20	183.80	9,467.4	-4,990.3	74.0	4,990.1	1.07	-0.21	-1.05	
14,226.0	87.50	183.50	9,469.2	-5,084.1	68.0	5,083.9	2.89	-2.87	-0.32	
14,321.0	86.20	184.80	9,474.5	-5,178.7	61.1	5,178.6	1.93	-1.37	1.37	
14,384.0	97.00	184.40	9,472.7	-5,241.3	56.1	5,241.2	17.15	17.14	-0.63	
14,416.0	96.80	184.70	9,468.9	-5,273.0	53.6	5,272.9	1.12	-0.63	0.94	
14,448.0	96.30	184.80	9,465.2	-5,304.7	50.9	5,304.6	1.59	-1.56	0.31	
14,479.0	88.40	184.30	9,463.9	-5,335.5	48.5	5,335.5	25.53	-25.48	-1.61	
14,511.0	90.90	184.50	9,464.1	-5,367.4	46.0	5,367.4	7.84	7.81	0.63	
14,543.0	91.50	183.80	9,463.5	-5,399.4	43.7	5,399.3	2.88	1.88	-2.19	
14,574.0	92.80	183.70	9,462.3	-5,430.3	41.7	5,430.2	4.21	4.19	-0.32	
14,606.0	91.10	183.30	9,461.2	-5,462.2	39.7	5,462.1	5.46	-5.31	-1.25	
14,638.0	91.70	183.20	9,460.4	-5,494.1	37.9	5,494.1	1.90	1.88	-0.31	
14,701.0	87.40	182.20	9,460.9	-5,557.0	34.9	5,557.0	7.01	-6.83	-1.59	
14,733.0	89.50	181.10	9,461.8	-5,589.0	34.0	5,588.9	7.41	6.56	-3.44	
14,796.0	90.40	180.20	9,461.8	-5,652.0	33.3	5,651.9	2.02	1.43	-1.43	
14,828.0	90.10	180.20	9,461.7	-5,684.0	33.2	5,683.9	0.94	-0.94	0.00	
14,891.0	89.70	181.20	9,461.8	-5,747.0	32.4	5,746.9	1.71	-0.63	1.59	
14,985.0	88.00	180.30	9,463.7	-5,841.0	31.2	5,840.9	2.05	-1.81	-0.96	
15,080.0	87.70	181.00	9,467.3	-5,935.9	30.1	5,935.8	0.80	-0.32	0.74	
15,174.0	89.20	182.10	9,469.8	-6,029.8	27.6	6,029.8	1.98	1.60	1.17	
15,268.0	92.40	184.00	9,468.5	-6,123.7	22.6	6,123.6	3.96	3.40	2.02	
15,364.0	91.80	183.70	9,465.0	-6,219.4	16.1	6,219.3	0.70	-0.63	-0.31	
15,458.0	90.20	181.60	9,463.3	-6,313.3	11.8	6,313.2	2.81	-1.70	-2.23	
15,553.0	88.00	180.30	9,464.8	-6,408.2	10.2	6,408.2	2.69	-2.32	-1.37	
15,648.0	87.50	180.90	9,468.6	-6,503.1	9.2	6,503.1	0.82	-0.53	0.63	
15,742.0	86.90	180.70	9,473.2	-6,597.0	7.9	6,597.0	0.67	-0.64	-0.21	
15,837.0	88.20	181.60	9,477.2	-6,691.9	6.0	6,691.9	1.66	1.37	0.95	
15,930.0	89.40	182.30	9,479.2	-6,784.8	2.8	6,784.8	1.49	1.29	0.75	
16,025.0	88.40	183.00	9,481.0	-6,879.7	-1.5	6,879.7	1.28	-1.05	0.74	
16,088.0	88.70	182.30	9,482.6	-6,942.6	-4.5	6,942.6	1.21	0.48	-1.11	
16,119.0	89.10	182.80	9,483.2	-6,973.6	-5.8	6,973.6	2.07	1.29	1.61	
16,151.0	89.50	183.00	9,483.6	-7,005.6	-7.5	7,005.6	1.40	1.25	0.63	
16,182.0	88.90	182.60	9,484.0	-7,036.5	-9.0	7,036.5	2.33	-1.94	-1.29	
16,214.0	89.60	182.50	9,484.4	-7,068.5	-10.4	7,068.5	2.21	2.19	-0.31	
16,246.0	91.00	184.20	9,484.2	-7,100.4	-12.3	7,100.4	6.88	4.38	5.31	
16,309.0	91.30	184.70	9,483.0	-7,163.2	-17.1	7,163.2	0.93	0.48	0.79	
16,403.0	90.50	185.80	9,481.5	-7,256.8	-25.7	7,256.8	1.45	-0.85	1.17	
16,512.0	91.40	187.20	9,479.7	-7,365.1	-38.1	7,365.1	1.53	0.83	1.28	
16,565.0	91.40	187.20	9,478.4	-7,417.7	-44.7	7,417.7	0.00	0.00	0.00	
16565' MD Projected to Bit - PBHL Jester 19 W2DM Fed Com #1H										



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Jester 19/30 W2DE Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Site:	Section 19/30-23S-27E Jester 19/30 W2DE Fed Com #1	MD Reference:	3218 +25 @ 3243.0usft (Patterson 243)
Well:	Jester 19/30 W2DE Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,565.0	9,478.4	-7,417.7	-44.7	16565' MD Projected to Bit



Job Number: SVMO-150354
 Company: Mewbourne Oil & Gas
 Lease/Well: Jester 19/30 W2DM Fed Com 1H
 Location: Eddy County, NM
 Rig Name: Patterson #243
 RKB: 25.6'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.44°
 Grid: East To Grid North
 File name: W:\WINSER~1\2015SU~1\MEWBOU~1\MOJESTER\19-30W~1\FEDCOM~1\
 Date/Time: 11-May-15 / 11:37
 Curve Name: Surface - 8725' M.D. (SRG)

MS Survey

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 180.10
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 8725' MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.
 Eric Zingible 5/11/15
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.57	319.19	100.00	.38	-.33	-.38	.50	319.19	.57
200.00	.79	352.55	199.99	1.44	-.74	-1.44	1.62	332.76	.44
300.00	1.33	21.60	299.97	3.20	-.40	-3.20	3.22	352.84	.75
400.00	1.50	46.10	399.95	5.19	.97	-5.19	5.28	10.58	.62
500.00	1.49	51.34	499.91	6.91	2.93	-6.91	7.50	22.97	.14
600.00	1.30	60.86	599.88	8.27	4.93	-8.28	9.63	30.82	.30
700.00	1.09	99.11	699.86	8.67	6.86	-8.68	11.06	38.36	.81
800.00	1.21	111.39	799.84	8.14	8.79	-8.15	11.97	47.20	.27
900.00	2.45	121.64	899.79	6.63	11.59	-6.65	13.35	60.23	1.28
1000.00	4.74	118.34	999.59	3.55	17.05	-3.58	17.41	78.25	2.30
1100.00	5.40	119.47	1099.19	-.73	24.78	.69	24.79	91.69	.67
1200.00	4.95	120.06	1198.79	-5.21	32.61	5.15	33.02	99.07	.45

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	
1300.00	5.32	109.88	1298.39	-8.94	40.70	8.87	41.67	102.39	.98
1400.00	6.07	103.58	1397.89	-11.76	50.20	11.67	51.56	103.19	.98
1500.00	6.07	104.69	1497.33	-14.34	60.46	14.24	62.13	103.35	.12
1600.00	5.85	105.98	1596.79	-17.09	70.47	16.96	72.51	103.63	.26
1700.00	4.76	109.80	1696.36	-19.90	79.27	19.76	81.73	104.09	1.15
1800.00	3.54	106.82	1796.10	-22.19	86.13	22.04	88.95	104.45	1.24
1900.00	2.20	117.36	1895.97	-23.97	90.79	23.81	93.90	104.79	1.43
2000.00	1.28	119.33	1995.92	-25.40	93.47	25.24	96.86	105.20	.92
2100.00	1.22	118.50	2095.90	-26.45	95.38	26.29	98.98	105.50	.06
2200.00	1.14	118.27	2195.88	-27.43	97.19	27.26	100.99	105.76	.08
2300.00	1.13	117.83	2295.86	-28.36	98.94	28.19	102.93	106.00	.01
2400.00	.87	130.56	2395.84	-29.32	100.39	29.14	104.58	106.28	.34
2500.00	.86	116.96	2495.83	-30.15	101.63	29.98	106.01	106.52	.21
2600.00	.77	139.20	2595.82	-31.00	102.74	30.82	107.32	106.79	.33
2700.00	.69	154.75	2695.82	-32.05	103.44	31.87	108.29	107.22	.21
2800.00	.58	163.36	2795.81	-33.08	103.84	32.90	108.98	107.67	.15
2900.00	.57	179.43	2895.80	-34.07	103.99	33.89	109.43	108.14	.16
3000.00	.50	190.26	2995.80	-34.99	103.92	34.81	109.65	108.61	.12
3100.00	.41	224.90	3095.80	-35.68	103.59	35.50	109.56	109.00	.28
3200.00	.56	244.59	3195.79	-36.14	102.89	35.96	109.05	109.35	.22
3300.00	.58	244.02	3295.79	-36.57	102.00	36.39	108.35	109.73	.02
3400.00	.60	248.67	3395.78	-36.98	101.05	36.81	107.61	110.10	.05
3500.00	.59	242.05	3495.78	-37.41	100.11	37.24	106.87	110.49	.07
3600.00	.56	241.58	3595.77	-37.89	99.23	37.72	106.21	110.90	.03
3700.00	.49	242.01	3695.77	-38.32	98.42	38.15	105.62	111.27	.07
3800.00	.25	209.67	3795.77	-38.71	97.93	38.54	105.31	111.57	.31
3900.00	.13	186.42	3895.77	-39.01	97.81	38.84	105.31	111.75	.14
4000.00	.07	350.81	3995.77	-39.07	97.79	38.90	105.31	111.78	.20
4100.00	.27	334.00	4095.77	-38.79	97.68	38.62	105.10	111.66	.20
4200.00	.24	312.78	4195.76	-38.44	97.42	38.27	104.73	111.53	.10
4300.00	.16	295.14	4295.76	-38.24	97.14	38.07	104.40	111.49	.10
4400.00	.19	289.63	4395.76	-38.12	96.86	37.96	104.09	111.49	.03
4500.00	.44	278.10	4495.76	-38.01	96.32	37.85	103.55	111.54	.26
4600.00	.47	274.09	4595.76	-37.93	95.53	37.76	102.79	111.66	.04

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	
4700.00	.48	276.06	4695.75	-37.86	94.71	37.69	101.99	111.79	.02
4800.00	.45	279.67	4795.75	-37.75	93.90	37.58	101.21	111.90	.04
4900.00	.53	276.36	4895.75	-37.63	93.06	37.47	100.38	112.02	.08
5000.00	.40	294.09	4995.74	-37.44	92.28	37.28	99.58	112.08	.19
5100.00	.26	290.94	5095.74	-37.21	91.75	37.05	99.01	112.08	.14
5200.00	.28	204.07	5195.74	-37.35	91.44	37.20	98.77	112.22	.37
5300.00	.43	188.39	5295.74	-37.95	91.28	37.79	98.86	112.57	.18
5400.00	.43	184.96	5395.74	-38.69	91.19	38.54	99.06	112.99	.03
5500.00	.60	232.77	5495.73	-39.39	90.74	39.23	98.92	113.46	.45
5600.00	1.16	199.60	5595.72	-40.66	89.99	40.50	98.75	114.31	.74
5700.00	2.10	179.94	5695.68	-43.44	89.65	43.28	99.62	115.85	1.08
5800.00	2.01	170.11	5795.62	-47.00	89.95	46.84	101.49	117.59	.36
5900.00	1.97	187.47	5895.56	-50.43	90.03	50.28	103.19	119.26	.60
6000.00	1.31	190.04	5995.52	-53.26	89.61	53.11	104.24	120.73	.66
6100.00	1.09	216.54	6095.50	-55.15	88.84	55.00	104.57	121.83	.59
6200.00	1.47	221.21	6195.47	-56.88	87.43	56.73	104.31	123.05	.39
6300.00	1.34	201.20	6295.44	-58.94	86.16	58.79	104.39	124.37	.50
6400.00	1.22	155.70	6395.42	-61.00	86.18	60.85	105.58	125.29	1.00
6500.00	1.45	187.86	6495.39	-63.22	86.44	63.07	107.10	126.18	.77
6600.00	1.64	215.62	6595.36	-65.64	85.44	65.49	107.74	127.53	.76
6700.00	.89	228.74	6695.33	-67.31	84.02	67.17	107.66	128.70	.80
6800.00	.42	314.45	6795.33	-67.57	83.18	67.42	107.16	129.09	.96
6900.00	.46	320.73	6895.32	-67.00	82.66	66.86	106.40	129.03	.06
7000.00	.41	322.88	6995.32	-66.40	82.19	66.26	105.66	128.94	.05
7100.00	.60	58.84	7095.32	-65.85	82.42	65.70	105.50	128.62	.76
7200.00	.20	47.27	7195.32	-65.46	83.00	65.31	105.71	128.26	.41
7300.00	.43	218.55	7295.32	-65.63	82.89	65.49	105.73	128.37	.63
7400.00	.61	232.91	7395.31	-66.25	82.23	66.11	105.60	128.86	.22
7500.00	.68	238.63	7495.31	-66.88	81.30	66.74	105.28	129.44	.10
7600.00	.34	266.18	7595.30	-67.21	80.50	67.07	104.87	129.86	.41
7700.00	.89	94.33	7695.30	-67.29	80.98	67.14	105.28	129.72	1.23
7800.00	1.47	80.06	7795.28	-67.12	83.02	66.98	106.76	128.96	.65
7900.00	2.99	70.81	7895.20	-66.04	86.74	65.89	109.02	127.29	1.56
8000.00	3.03	68.00	7995.06	-64.20	91.66	64.04	111.90	125.01	.15

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	
8100.00	2.44	80.30	8094.95	-62.85	96.21	62.68	114.91	123.16	.83
8200.00	1.35	77.75	8194.89	-62.24	99.45	62.07	117.32	122.04	1.09
8300.00	.65	83.81	8294.87	-61.93	101.17	61.75	118.62	121.47	.71
8400.00	1.07	28.00	8394.86	-61.04	102.17	60.86	119.02	120.86	.89
8500.00	.67	41.49	8494.85	-59.78	103.00	59.60	119.09	120.13	.45
8600.00	.53	27.04	8594.85	-58.93	103.60	58.75	119.18	119.63	.21
8700.00	.28	29.89	8694.85	-58.31	103.93	58.13	119.17	119.29	.25
Last Survey Depth Recorded									
8725.00	.28	38.72	8719.84	-58.21	104.00	58.02	119.18	119.24	.17