

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

DEC 13 2019 AB

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

As drilled
AMENDED REPORT

Corrected Pool + Property

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-46018	2 Pool Code 49553	3 Pool Name Palmillo; Bone Spring East
4 Property Code 326250	5 Property Name PAVO FRIO 29/28 B33 FEDERAL COM	6 Well Number 1H
7 GRID NO. 14744	8 Operator Name MEWBOURNE OIL COMPANY	9 Elevation 3463'

10 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	29	18S	29E		1980	SOUTH	2385	EAST	EDDY

11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	28	18S	29E		1970	SOUTH	85	EAST	EDDY
12 Dedicated Acres 240	13 Joint or Infill	14 Consolidation Code	15 Order No.						

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16. GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 624519.5 - E 614300.3 LAT: 32.7166202° N LONG: 104.0960970° W		GEODETIC DATA NAD 83 GRID - NM EAST BOTTOM HOLE N 624547.9 - E 621865.0 LAT: 32.7166492° N LONG: 104.0715006° W	
17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: Jackie Lathan Date: 10/22/19 Printed Name: Jackie Lathan E-mail Address:		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 03-28-2018 Date of Survey Signature and Seal of Professional Surveyor: ROBERT M. HOWETT 19680 Certificate Number	

Job No.: LS1803409

Rup 12-18-19



RECEIVED

DEC 13 2019 AB

October 8, 2019

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

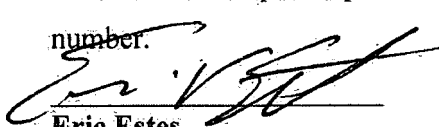
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Pavo Frio 29/28 B3JI Federal Com #001H
Palmillo East Bone Spring
Eddy County, New Mexico
API# 30-015-46018

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Glenn Thompson	Original Hole	1,222ft. to 16,117ft.	07-31-19 to 08-25-19	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Pavo Frio 29 28 B3JI Fed Com #1HWM191158

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



October 8, 2019

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of July 31, 2019, through August 25, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,222feet to a depth of 16,117feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Pavo Frio 29 28 B3JI Federal Com #001H, well API # 30-015-46018 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



Stryker Energy Directional Services
Survey Report Landscape



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft.
Site:	Section 29:28-18S-29E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft.
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey Program		Date	08/27/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
100.0	1,118.0	Gyro Surveys (Original Hole)	GyroFlex			
1,222.0	16,133.0	Stryker Surveys (Original Hole)	MWD	MWD v3:standard declination		

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	624,519.50	614,300.30	
100.0	0.93	278.90	100.0	0.1	-0.8	0.8	278.90	0.93	624,519.63	614,299.50	
200.0	1.27	290.91	200.0	0.6	-2.6	2.7	283.77	0.41	624,520.15	614,297.66	
300.0	1.51	273.98	299.9	1.1	-5.0	5.1	282.80	0.47	624,520.63	614,295.31	
400.0	1.01	277.93	399.9	1.3	-7.2	7.3	280.63	0.51	624,520.85	614,293.12	
500.0	0.77	293.12	499.9	1.7	-8.7	8.8	281.30	0.33	624,521.23	614,291.63	
600.0	0.52	343.03	599.9	2.4	-9.4	9.7	284.47	0.59	624,521.93	614,290.88	
700.0	0.61	36.04	699.9	3.3	-9.2	9.8	289.63	0.51	624,522.79	614,291.06	
800.0	0.93	59.36	799.9	4.1	-8.2	9.2	296.71	0.44	624,523.64	614,292.08	
900.0	1.16	53.53	899.9	5.2	-6.7	8.5	307.52	0.25	624,524.65	614,293.59	
1,000.0	1.12	58.50	999.9	6.3	-5.1	8.1	321.05	0.11	624,525.77	614,295.23	
1,100.0	0.77	61.73	1,099.8	7.1	-3.6	8.0	332.84	0.35	624,526.59	614,296.66	
1,118.0	0.76	83.81	1,117.8	7.2	-3.4	7.9	334.52	1.63	624,526.67	614,296.88	
1,222.0	0.40	18.20	1,221.8	7.6	-2.6	8.0	340.97	0.67	624,527.08	614,297.68	
1,411.0	4.00	272.60	1,410.7	8.5	-9.0	12.4	313.41	2.18	624,528.01	614,291.30	
1,603.0	4.00	273.70	1,602.2	9.2	-22.4	24.2	292.46	0.04	624,528.75	614,277.93	
1,793.0	3.80	277.80	1,791.8	10.5	-35.2	36.8	286.64	0.18	624,530.03	614,265.08	
1,982.0	2.80	255.70	1,980.5	10.2	-45.9	47.0	282.57	0.85	624,529.74	614,254.40	
2,171.0	2.60	256.10	2,169.3	8.1	-54.5	55.1	278.42	0.11	624,527.57	614,245.77	
2,361.0	2.80	252.50	2,359.0	5.6	-63.1	63.4	275.10	0.14	624,525.14	614,237.16	
2,549.0	3.00	257.50	2,546.8	3.2	-72.3	72.4	272.53	0.17	624,522.69	614,227.97	



Stryker Energy Directional Services
Survey Report Landscape



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29 28-18S-29E Payo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,739.0	3.30	257.70	2,736.5	1.0	-82.5	82.5	270.66	0.16	624,520.45	614,217.78
2,928.0	2.20	270.50	2,925.3	-0.2	-91.5	91.5	269.89	0.66	624,519.32	614,208.83
3,117.0	2.30	270.50	3,114.2	-0.1	-98.9	98.9	269.94	0.05	624,519.39	614,201.41
3,305.0	2.30	269.70	3,302.0	-0.1	-106.4	106.4	269.95	0.02	624,519.40	614,193.87
3,494.0	2.40	272.50	3,490.8	0.1	-114.2	114.2	270.03	0.08	624,519.55	614,186.12
3,684.0	2.50	271.90	3,680.7	0.4	-122.3	122.3	270.17	0.05	624,519.87	614,178.01
3,873.0	2.50	277.80	3,869.5	1.1	-130.5	130.5	270.47	0.14	624,520.56	614,169.80
4,062.0	1.70	261.10	4,058.4	1.2	-137.3	137.4	270.50	0.53	624,520.69	614,162.95
4,251.0	1.90	258.00	4,247.3	0.1	-143.2	143.2	270.04	0.12	624,519.80	614,157.12
4,440.0	1.70	260.30	4,436.2	-1.0	-149.0	149.0	269.61	0.11	624,518.48	614,151.29
4,629.0	1.90	262.60	4,625.1	-1.9	-154.9	154.9	269.30	0.11	624,517.60	614,145.42
4,818.0	1.80	261.70	4,814.0	-2.7	-160.9	161.0	269.03	0.06	624,516.77	614,139.37
5,008.0	1.60	258.00	5,003.9	-3.7	-166.5	166.5	268.72	0.12	624,515.79	614,133.83
5,196.0	2.20	284.70	5,191.8	-3.3	-172.5	172.6	268.89	0.56	624,516.16	614,127.77
5,385.0	2.40	281.30	5,380.7	-1.6	-179.9	179.9	269.48	0.13	624,517.85	614,120.38
5,574.0	2.40	278.50	5,569.5	-0.3	-187.7	187.7	269.91	0.06	624,519.21	614,112.58
5,763.0	2.40	281.80	5,758.3	-1.1	-195.5	195.5	270.32	0.07	624,520.61	614,104.80
5,953.0	2.70	283.40	5,948.1	3.0	-203.8	203.8	270.83	0.16	624,522.46	614,096.55
6,142.0	2.20	275.20	6,137.0	4.3	-211.7	211.7	271.17	0.32	624,523.82	614,088.61
6,332.0	2.30	262.60	6,326.8	4.2	-219.1	219.1	271.09	0.27	624,523.66	614,081.19
6,521.0	2.10	259.90	6,515.7	3.1	-226.3	226.3	270.78	0.12	624,522.56	614,074.02
6,709.0	1.80	255.90	6,703.6	1.7	-232.5	232.5	270.43	0.18	624,521.24	614,067.77
6,898.0	1.80	243.40	6,892.5	-0.3	-238.1	238.1	269.92	0.21	624,519.19	614,062.24
7,088.0	1.50	244.30	7,082.4	-2.7	-243.0	243.0	269.36	0.16	624,516.77	614,057.33
7,277.0	1.10	264.00	7,271.3	-4.0	-247.0	247.0	269.07	0.31	624,515.51	614,053.29
7,466.0	0.70	282.10	7,460.3	-3.9	-249.9	250.0	269.10	0.26	624,515.56	614,050.36
7,656.0	0.70	325.30	7,650.3	-2.7	-251.7	251.8	269.38	0.27	624,516.76	614,048.58



Stryker Energy Directional Services
Survey Report Landscape



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29 28-18S-28E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
7,845.0	0.60	344.90	7,839.3	-0.8	-252.7	252.7	269.81	0.13	624,518.66	614,047.65	
7,940.0	1.20	30.00	7,934.3	0.5	-252.3	252.3	270.12	0.93	624,520.01	614,048.02	
7,955.8	1.20	30.53	7,950.0	0.8	-252.1	252.1	270.18	0.07	624,520.29	614,048.18	
BB B3JI											
7,999.0	1.20	32.00	7,993.3	1.6	-251.6	251.7	270.36	0.07	624,521.07	614,048.65	
8,031.0	2.80	58.60	8,025.3	2.3	-250.8	250.8	270.52	5.65	624,521.76	614,049.50	
8,062.0	7.30	71.30	8,056.1	3.3	-248.3	248.3	270.76	14.87	624,522.78	614,052.01	
8,094.0	13.10	75.60	8,087.6	4.8	-242.8	242.9	271.14	18.27	624,524.34	614,057.45	
8,125.0	17.30	77.40	8,117.5	6.7	-234.9	235.0	271.64	13.63	624,526.22	614,065.36	
8,157.0	20.40	79.10	8,147.8	8.8	-224.8	225.0	272.24	9.84	624,528.31	614,075.48	
8,188.0	22.20	79.70	8,176.7	10.9	-213.7	214.0	272.91	5.85	624,530.38	614,086.55	
8,220.0	24.30	81.90	8,206.1	12.9	-201.3	201.7	273.66	7.10	624,532.39	614,099.02	
8,252.0	27.10	84.40	8,234.9	14.5	-187.5	188.1	274.43	9.38	624,534.03	614,112.79	
8,284.0	30.30	86.40	8,263.0	15.7	-172.2	172.9	275.23	10.44	624,535.25	614,128.11	
8,316.0	33.80	86.20	8,290.1	16.8	-155.2	156.2	276.19	10.94	624,536.34	614,145.05	
8,348.0	37.20	85.20	8,316.1	18.2	-136.7	137.9	277.60	10.78	624,537.74	614,163.58	
8,379.0	40.60	85.50	8,340.3	19.8	-117.3	119.0	279.59	10.98	624,539.32	614,182.98	
8,410.0	43.30	86.30	8,363.3	21.3	-96.7	99.0	282.43	8.88	624,540.80	614,203.65	
8,442.0	46.50	88.50	8,386.0	22.3	-74.1	77.4	286.76	11.11	624,541.81	614,226.21	
8,473.0	51.50	91.40	8,406.3	22.3	-50.7	55.4	293.75	17.60	624,541.81	614,249.59	
8,505.0	55.40	93.30	8,425.4	21.2	-25.0	32.8	310.32	13.09	624,540.74	614,275.27	
8,536.0	58.50	93.90	8,442.3	19.6	0.9	19.6	2.62	10.13	624,539.11	614,301.20	
8,568.0	61.90	93.30	8,458.2	17.9	28.6	33.7	58.01	10.75	624,537.37	614,328.91	
8,600.0	65.40	92.80	8,472.4	16.3	57.2	59.5	74.06	11.03	624,535.85	614,357.54	
8,631.0	70.10	92.00	8,484.1	15.1	85.9	87.2	80.00	15.35	624,534.65	614,386.19	
8,643.0	71.60	91.60	8,488.0	14.8	97.2	98.3	81.35	12.89	624,534.29	614,397.52	
8,707.0	77.90	89.20	8,504.9	14.4	158.9	159.6	84.83	10.49	624,533.88	614,459.23	



Stryker Energy Directional Services

Survey Report Landscape



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Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
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Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,738.0	81.80	89.80	8,510.3	14.6	189.4	190.0	85.58	12.72	624,534.15	614,489.74	
8,770.0	82.30	89.10	8,514.8	15.0	221.1	221.6	86.13	2.67	624,534.45	614,521.43	
8,801.0	81.30	88.80	8,519.2	15.5	251.8	252.3	86.47	3.37	624,535.01	614,552.11	
8,833.0	82.00	88.30	8,523.8	16.3	283.5	283.9	86.71	2.68	624,535.81	614,583.76	
8,868.0	86.20	89.60	8,527.4	16.9	318.3	318.7	86.95	12.56	624,536.45	614,618.56	
8,899.0	86.90	89.50	8,529.3	17.2	349.2	349.6	87.18	2.28	624,536.69	614,649.50	
8,931.0	89.40	90.00	8,530.3	17.3	381.2	381.6	87.40	7.97	624,536.83	614,681.48	
8,963.0	92.30	90.70	8,529.9	17.1	413.2	413.5	87.62	9.32	624,536.64	614,713.48	
8,994.0	91.70	90.80	8,528.8	16.7	444.2	444.5	87.84	1.96	624,536.23	614,744.45	
9,025.2	91.01	90.93	8,528.0	16.3	475.4	475.6	88.04	2.25	624,535.76	614,775.66	
LP B3JI											
9,089.0	89.60	91.20	8,527.7	15.1	539.1	539.3	88.40	2.25	624,534.57	614,839.43	
9,184.0	89.40	91.10	8,528.5	13.2	634.1	634.2	88.81	0.24	624,532.67	614,934.40	
9,279.0	89.50	91.10	8,529.4	11.3	729.1	729.2	89.11	0.11	624,530.84	615,029.38	
9,373.0	89.60	91.20	8,530.2	9.5	823.1	823.1	89.34	0.15	624,528.96	615,123.36	
9,467.0	89.60	90.80	8,530.8	7.8	917.0	917.1	89.51	0.43	624,527.32	615,217.34	
9,562.0	87.80	91.00	8,533.0	6.3	1,012.0	1,012.0	89.64	1.91	624,525.82	615,312.30	
9,622.0	87.70	90.60	8,535.3	5.5	1,072.0	1,072.0	89.71	0.69	624,524.99	615,372.25	
9,716.0	88.00	90.10	8,538.9	4.9	1,165.9	1,165.9	89.76	0.62	624,524.41	615,466.18	
9,811.0	88.50	89.90	8,541.8	4.9	1,260.8	1,260.8	89.78	0.57	624,524.41	615,561.14	
9,906.0	88.00	90.50	8,544.7	4.6	1,355.8	1,355.8	89.81	0.82	624,524.08	615,656.09	
10,001.0	88.60	89.70	8,547.5	4.4	1,450.7	1,450.8	89.83	1.05	624,523.92	615,751.05	
10,095.0	87.90	90.50	8,550.4	4.3	1,544.7	1,544.7	89.84	1.13	624,523.75	615,845.00	
10,189.0	88.00	89.60	8,553.7	4.2	1,638.6	1,638.6	89.85	0.96	624,523.67	615,938.94	
10,284.0	89.00	89.50	8,556.2	4.9	1,733.6	1,733.6	89.84	1.06	624,524.42	616,033.91	
10,379.0	89.40	89.00	8,557.5	6.2	1,828.6	1,828.6	89.81	0.67	624,525.66	616,128.89	
10,474.0	88.10	89.90	8,559.6	7.1	1,923.6	1,923.6	89.79	1.66	624,526.57	616,223.86	



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 29 28-18S-29E Pavo Frio
Well: Pavo Frio.29/28 B3JI Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Frio 29/28 B3JI Fed Com 1H
TVD Reference: 3463+27 @ 3490.0usft
MD Reference: 3463+27 @ 3490.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,568.0	88.70	89.70	8,562.2	7.4	2,017.5	2,017.5	89.79	0.67	624,526.90	616,317.82
10,663.0	88.40	89.00	8,564.6	8.5	2,112.5	2,112.5	89.77	0.80	624,527.98	616,412.78
10,757.0	88.40	88.20	8,567.3	10.8	2,206.4	2,206.4	89.72	0.85	624,530.27	616,506.72
10,852.0	88.90	89.50	8,569.5	12.7	2,301.4	2,301.4	89.68	1.47	624,532.18	616,601.67
10,945.0	88.20	88.60	8,571.9	14.2	2,394.3	2,394.4	89.66	1.23	624,533.72	616,694.63
11,040.0	90.00	89.80	8,573.3	15.5	2,489.3	2,489.3	89.64	2.28	624,535.05	616,789.60
11,134.0	88.60	89.10	8,574.5	16.4	2,583.3	2,583.3	89.64	1.67	624,535.95	616,883.59
11,228.0	88.70	91.00	8,576.7	16.4	2,677.3	2,677.3	89.65	2.02	624,535.87	616,977.56
11,323.0	88.00	90.40	8,579.4	15.2	2,772.2	2,772.2	89.69	0.97	624,534.71	617,072.51
11,418.0	87.90	89.80	8,582.8	15.0	2,867.1	2,867.2	89.70	0.64	624,534.54	617,167.45
11,511.0	87.70	89.10	8,586.4	15.9	2,960.1	2,960.1	89.69	0.78	624,535.43	617,260.37
11,606.0	88.80	90.70	8,589.3	16.1	3,055.0	3,055.1	89.70	2.04	624,535.60	617,355.32
11,662.0	89.10	90.60	8,590.3	15.5	3,111.0	3,111.0	89.72	0.56	624,534.96	617,411.31
11,757.0	90.30	90.20	8,590.8	14.8	3,206.0	3,206.0	89.74	1.33	624,534.30	617,506.31
11,851.0	89.60	90.10	8,590.9	14.6	3,300.0	3,300.0	89.75	0.75	624,534.05	617,600.30
11,946.0	89.00	90.40	8,592.1	14.1	3,395.0	3,395.0	89.76	0.71	624,533.64	617,695.30
12,040.0	88.90	90.10	8,593.8	13.7	3,489.0	3,489.0	89.77	0.34	624,533.23	617,789.28
12,135.0	89.30	90.60	8,595.3	13.1	3,584.0	3,584.0	89.79	0.67	624,532.65	617,884.26
12,229.0	89.20	90.50	8,596.5	12.2	3,678.0	3,678.0	89.81	0.15	624,531.75	617,978.25
12,324.0	89.00	90.80	8,598.0	11.2	3,772.9	3,773.0	89.83	0.38	624,530.67	618,073.23
12,420.0	89.90	90.60	8,598.9	10.0	3,868.9	3,868.9	89.85	0.96	624,529.50	618,169.22
12,515.0	90.40	90.60	8,598.7	9.0	3,963.9	3,963.9	89.87	0.53	624,528.50	618,264.22
12,610.0	89.70	89.50	8,598.6	8.9	4,058.9	4,058.9	89.87	1.37	624,528.42	618,359.21
12,704.0	89.50	89.50	8,599.3	9.7	4,152.9	4,152.9	89.87	0.21	624,529.24	618,453.21
12,800.0	87.60	88.90	8,601.7	11.1	4,248.9	4,248.9	89.85	2.08	624,530.58	618,549.16
12,895.0	88.70	88.90	8,606.4	12.9	4,343.7	4,343.7	89.83	0.95	624,532.40	618,644.03
12,989.0	88.40	88.90	8,610.4	14.7	4,437.6	4,437.6	89.81	1.81	624,534.20	618,737.92



Stryker Energy Directional Services

Survey Report Landscape



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29-28-18S-29E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,083.0	88.30	89.20	8,613.1	16.3	4,531.6	4,531.6	89.79	0.34	624,535.76	618,831.87
13,178.0	85.70	88.40	8,618.1	18.2	4,626.4	4,626.4	89.77	2.86	624,537.75	618,926.71
13,273.0	87.20	88.30	8,624.0	21.0	4,721.2	4,721.2	89.75	1.58	624,540.48	619,021.48
13,367.0	90.00	89.60	8,626.3	22.7	4,815.1	4,815.2	89.73	3.28	624,542.20	619,115.43
13,462.0	90.10	89.80	8,626.2	23.2	4,910.1	4,910.2	89.73	0.24	624,542.70	619,210.43
13,557.0	89.90	90.40	8,626.2	23.0	5,005.1	5,005.2	89.74	0.67	624,542.53	619,305.43
13,650.0	89.90	90.10	8,626.4	22.6	5,098.1	5,098.2	89.75	0.32	624,542.12	619,398.43
13,744.0	89.60	89.90	8,626.8	22.6	5,192.1	5,192.2	89.75	0.38	624,542.12	619,492.42
13,839.0	89.30	90.10	8,627.7	22.6	5,287.1	5,287.2	89.75	0.38	624,542.12	619,587.42
13,933.0	90.00	90.30	8,628.3	22.3	5,381.1	5,381.2	89.76	0.77	624,541.80	619,681.42
14,028.0	90.30	90.20	8,628.0	21.9	5,476.1	5,476.2	89.77	0.33	624,541.38	619,776.42
14,122.0	89.60	89.80	8,628.1	21.9	5,570.1	5,570.2	89.77	0.86	624,541.38	619,870.42
14,217.0	89.40	88.80	8,628.9	23.0	5,665.1	5,665.1	89.77	1.07	624,542.54	619,965.40
14,311.0	89.00	90.10	8,630.2	23.9	5,759.1	5,759.1	89.76	1.45	624,543.44	620,059.39
14,405.0	87.40	89.70	8,633.2	24.1	5,853.0	5,853.1	89.76	1.75	624,543.61	620,153.34
14,500.0	87.60	86.70	8,637.3	27.1	5,947.9	5,948.0	89.74	3.16	624,546.59	620,248.19
14,594.0	87.90	86.00	8,641.0	33.1	6,041.6	6,041.7	89.69	0.81	624,552.57	620,341.93
14,688.0	89.20	88.30	8,643.4	37.7	6,135.5	6,135.6	89.65	2.81	624,557.24	620,435.77
14,783.0	89.40	88.30	8,644.6	40.6	6,230.4	6,230.6	89.63	0.21	624,560.06	620,530.72
14,877.0	88.00	90.90	8,646.7	41.2	6,324.4	6,324.5	89.63	3.14	624,560.71	620,624.69
14,972.0	87.00	91.70	8,650.8	39.1	6,419.3	6,419.4	89.65	1.35	624,558.56	620,719.57
15,066.0	88.80	92.00	8,654.3	36.0	6,513.2	6,513.3	89.68	1.94	624,555.53	620,813.45
15,160.0	88.30	93.40	8,656.7	31.6	6,607.0	6,607.1	89.73	1.58	624,551.10	620,907.32
15,255.0	88.50	90.10	8,659.3	28.7	6,701.9	6,702.0	89.75	3.48	624,548.20	621,002.22
15,349.0	89.50	89.60	8,661.0	28.9	6,795.9	6,796.0	89.76	1.19	624,548.45	621,096.20
15,443.0	89.40	90.80	8,661.9	28.6	6,889.9	6,890.0	89.76	1.28	624,548.12	621,190.20
15,537.0	89.20	91.30	8,663.0	26.9	6,983.9	6,983.9	89.78	0.57	624,546.40	621,284.17



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M.: Nad (83)
Site: Section 29 28-18S-29E Pavo:Frio
Well: Pavo Frio 29/28 B3JI Fed:Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Frio 29/28 B3JI Fed:Com 1H
TVD Reference: 3463+27 @ 3490.0usft
MD Reference: 3463+27 @ 3490.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
15,632.0	88.00	91.30	8,665.3	24.7	7,078.8	7,078.9	89.80	1.26	624,544.24	621,379.12	
15,727.0	90.20	90.60	8,666.8	23.2	7,173.8	7,173.8	89.81	2.43	624,542.67	621,474.09	
15,822.0	90.70	90.50	8,666.1	22.3	7,268.8	7,268.8	89.82	0.54	624,541.76	621,569.08	
15,917.0	88.50	90.70	8,666.7	21.3	7,363.8	7,363.8	89.83	2.33	624,540.76	621,664.07	
16,012.0	88.80	91.10	8,669.0	19.8	7,458.7	7,458.8	89.85	0.53	624,539.27	621,759.03	
16,067.0	88.60	91.10	8,670.2	18.7	7,513.7	7,513.7	89.86	0.36	624,538.22	621,814.01	
16,117.8	88.60	91.10	8,671.5	17.7	7,564.5	7,564.5	89.87	0.00	624,537.24	621,864.76	
PBHL B3JI											
16,133.0	88.60	91.10	8,671.8	17.4	7,579.7	7,579.7	89.87	0.00	624,536.95	621,879.97	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
16,133.0	8,671.8	17.4	7,579.7	16133.0' Projected to bit	

Checked By: _____ Approved By: _____ Date: _____



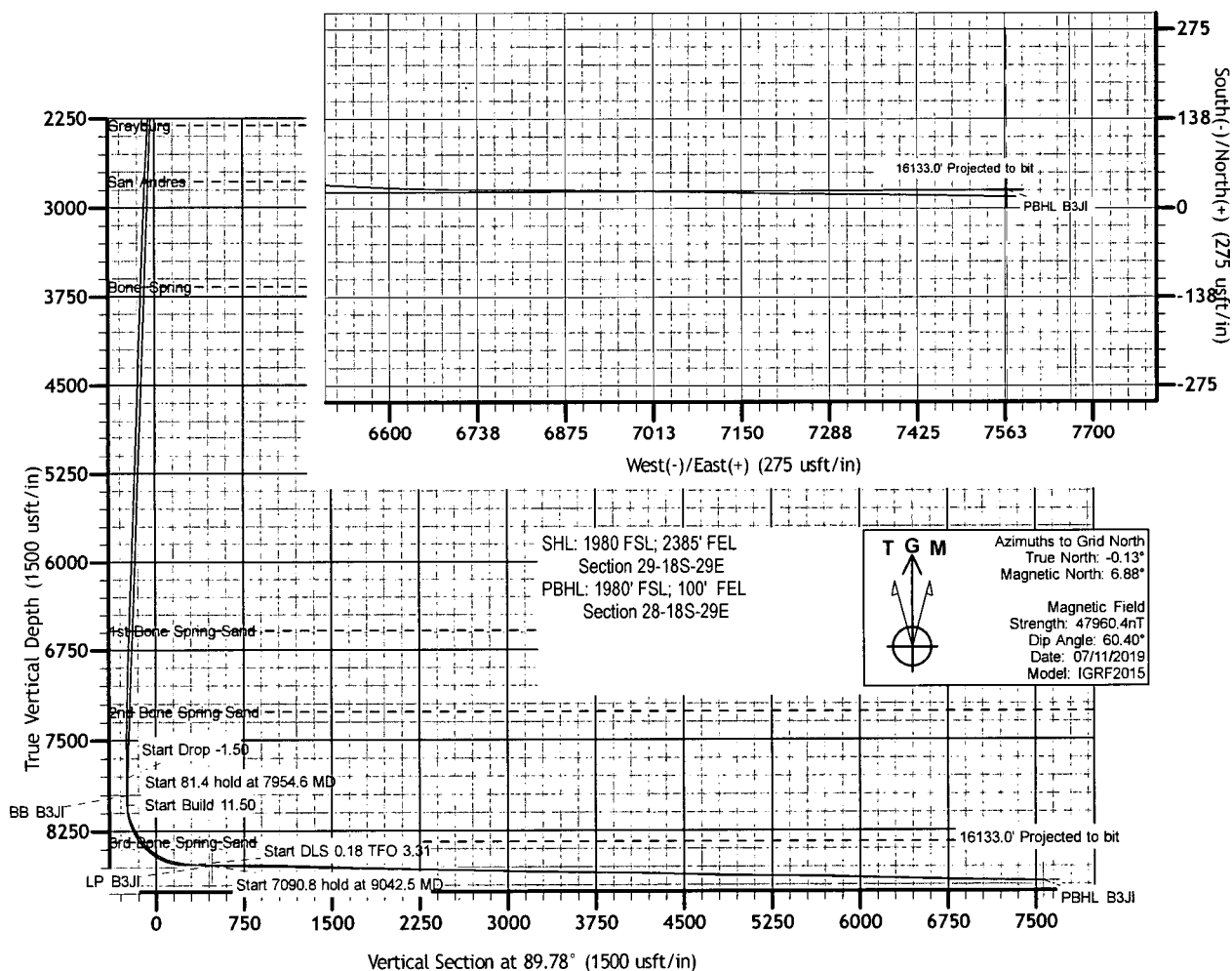
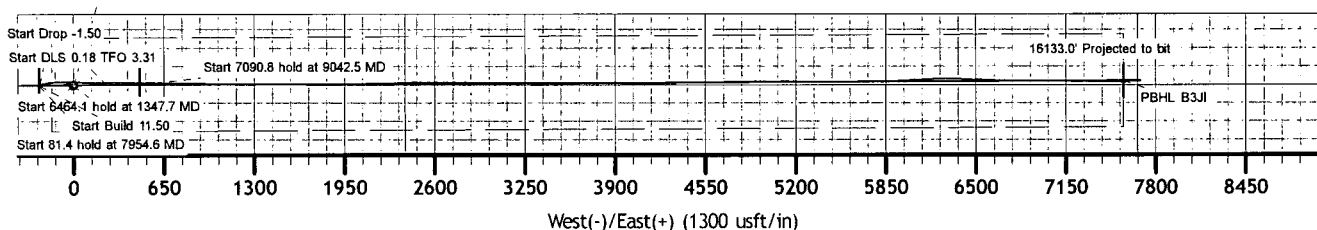
COMPANY: Mewbourne Oil Company
WELL: Pavo Frio 29/28 B3JI Fed Com 1H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 231



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.88°

GEODETIC ZONE: New Mexico Eastern Zone										
3463+27 @ 3490.0usft										
GROUND ELEVATION: 3463.0										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
	0.0	0.0	624519.50	614300.30	32° 42' 59.833 N	104° 5' 45.949 W				
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1205.0	0.00	0.00	1205.0	0.0	0.0	0.00	0.00	0.0	
3	1347.7	2.14	269.88	1347.7	0.0	-2.7	1.50	269.88	-2.7	
4	7811.9	2.14	269.88	7807.3	-0.5	-244.1	0.00	0.00	-244.1	
5	7954.6	0.00	0.00	7950.0	-0.5	-246.8	1.50	180.00	-246.8	BB B3JI
6	8036.0	0.00	0.00	8031.4	-0.5	-246.8	0.00	0.00	-246.8	
7	8805.8	88.49	89.77	8529.6	1.5	238.5	11.50	89.77	238.5	
8	9042.5	88.91	89.79	8535.0	2.4	475.2	0.18	3.31	475.2	LP B3JI
9	16133.4	88.91	89.79	8670.0	28.4	7564.7	0.00	0.00	7564.8	PBHL B3JI

Pavo Frio 29/28 B3JI Fed Com 1H Section 29 28-18S-29E Pavo Frio





NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 30 2019

RECEIVED

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 29 28-18S-29E Pavo Frio

Pavo Frio 29/28 B3J1 Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

27 August, 2019





Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29 28-18S-29E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 29 28-18S-29E Pavo Frio		
Site Position:		Northing:	625,720.10 usft
From:	Map	Easting:	613,904.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 43' 11.721 N
		Longitude:	104° 5' 50.554 W
		Grid Convergence:	0.13 °

Well	Pavo Frio 29/28 B3JI Fed Com 1H					
Well Position	+N/-S	0.0 usft	Northing:	624,519.50 usft	Latitude:	32° 42' 59.833 N
	+E/-W	0.0 usft	Easting:	614,300.30 usft	Longitude:	104° 5' 45.949 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,463.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/11/19	7.01	60.40	47,960.39375045

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	89.87	

Survey Program		Date 08/27/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	1,118.0	Gyro Surveys (Original Hole)	GyroFlex	
1,222.0	16,133.0	Stryker Surveys (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	0.93	278.90	100.0	0.1	-0.8	-0.8	0.93	0.93	0.00	
200.0	1.27	290.91	200.0	0.6	-2.6	-2.6	0.41	0.34	12.01	
300.0	1.51	273.98	299.9	1.1	-5.0	-5.0	0.47	0.24	-16.93	
400.0	1.01	277.93	399.9	1.3	-7.2	-7.2	0.51	-0.50	3.95	
500.0	0.77	293.12	499.9	1.7	-8.7	-8.7	0.33	-0.24	15.19	
600.0	0.52	343.03	599.9	2.4	-9.4	-9.4	0.59	-0.25	49.91	
700.0	0.61	36.04	699.9	3.3	-9.2	-9.2	0.51	0.09	53.01	
800.0	0.93	59.36	799.9	4.1	-8.2	-8.2	0.44	0.32	23.32	
900.0	1.16	53.53	899.9	5.2	-6.7	-6.7	0.25	0.23	-5.83	



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29 28-18S-29E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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	1.12	58.50	999.9	6.3	-5.1	-5.1	0.11	-0.04	4.97
1,100.0	0.77	61.73	1,099.8	7.1	-3.6	-3.6	0.35	-0.35	3.23
1,118.0	0.76	83.81	1,117.8	7.2	-3.4	-3.4	1.63	-0.06	122.67
1,222.0	0.40	18.20	1,221.8	7.6	-2.6	-2.6	0.67	-0.35	-63.09
1,411.0	4.00	272.60	1,410.7	8.5	-9.0	-9.0	2.18	1.90	-55.87
1,603.0	4.00	273.70	1,602.2	9.2	-22.4	-22.3	0.04	0.00	0.57
1,793.0	3.80	277.80	1,791.8	10.5	-35.2	-35.2	0.18	-0.11	2.16
1,982.0	2.80	255.70	1,980.5	10.2	-45.9	-45.9	0.85	-0.53	-11.69
2,171.0	2.60	256.10	2,169.3	8.1	-54.5	-54.5	0.11	-0.11	0.21
2,361.0	2.80	252.50	2,359.0	5.6	-63.1	-63.1	0.14	0.11	-1.89
2,549.0	3.00	257.50	2,546.8	3.2	-72.3	-72.3	0.17	0.11	2.66
2,739.0	3.30	257.70	2,736.5	1.0	-82.5	-82.5	0.16	0.16	0.11
2,928.0	2.20	270.50	2,925.3	-0.2	-91.5	-91.5	0.66	-0.58	6.77
3,117.0	2.30	270.50	3,114.2	-0.1	-98.9	-98.9	0.05	0.05	0.00
3,305.0	2.30	269.70	3,302.0	-0.1	-106.4	-106.4	0.02	0.00	-0.43
3,494.0	2.40	272.50	3,490.8	0.1	-114.2	-114.2	0.08	0.05	1.48
3,684.0	2.50	271.90	3,680.7	0.4	-122.3	-122.3	0.05	0.05	-0.32
3,873.0	2.50	277.80	3,869.5	1.1	-130.5	-130.5	0.14	0.00	3.12
4,062.0	1.70	261.10	4,058.4	1.2	-137.3	-137.3	0.53	-0.42	-8.84
4,251.0	1.90	258.00	4,247.3	0.1	-143.2	-143.2	0.12	0.11	-1.64
4,440.0	1.70	260.30	4,436.2	-1.0	-149.0	-149.0	0.11	-0.11	1.22
4,629.0	1.90	262.60	4,625.1	-1.9	-154.9	-154.9	0.11	0.11	1.22
4,818.0	1.80	261.70	4,814.0	-2.7	-160.9	-160.9	0.06	-0.05	-0.48
5,008.0	1.60	258.00	5,003.9	-3.7	-166.5	-166.5	0.12	-0.11	-1.95
5,196.0	2.20	284.70	5,191.8	-3.3	-172.5	-172.5	0.56	0.32	14.20
5,385.0	2.40	281.30	5,380.7	-1.6	-179.9	-179.9	0.13	0.11	-1.80
5,574.0	2.40	278.50	5,569.5	-0.3	-187.7	-187.7	0.06	0.00	-1.48
5,763.0	2.40	281.80	5,758.3	1.1	-195.5	-195.5	0.07	0.00	1.75
5,953.0	2.70	283.40	5,948.1	3.0	-203.8	-203.7	0.16	0.16	0.84
6,142.0	2.20	275.20	6,137.0	4.3	-211.7	-211.7	0.32	-0.26	-4.34
6,332.0	2.30	262.60	6,326.8	4.2	-219.1	-219.1	0.27	0.05	-6.63
6,521.0	2.10	259.90	6,515.7	3.1	-226.3	-226.3	0.12	-0.11	-1.43
6,709.0	1.80	255.90	6,703.6	1.7	-232.5	-232.5	0.18	-0.16	-2.13
6,898.0	1.80	243.40	6,892.5	-0.3	-238.1	-238.1	0.21	0.00	-6.61
7,088.0	1.50	244.30	7,082.4	-2.7	-243.0	-243.0	0.16	-0.16	0.47
7,277.0	1.10	264.00	7,271.3	-4.0	-247.0	-247.0	0.31	-0.21	10.42
7,466.0	0.70	282.10	7,460.3	-3.9	-249.9	-249.9	0.26	-0.21	9.58
7,656.0	0.70	325.30	7,650.3	-2.7	-251.7	-251.7	0.27	0.00	22.74
7,845.0	0.60	344.90	7,839.3	-0.8	-252.7	-252.7	0.13	-0.05	10.37
7,940.0	1.20	30.00	7,934.3	0.5	-252.3	-252.3	0.93	0.63	47.47
7,955.8	1.20	30.53	7,950.0	0.8	-252.1	-252.1	0.07	0.00	3.39
BB B3JI									
7,999.0	1.20	32.00	7,993.3	1.6	-251.6	-251.6	0.07	0.00	3.39



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29 28-18S-29E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)	
8,031.0	2.80	58.60	8,025.3	2.3	-250.8	-250.8	5.65	5.00	83.13	
8,062.0	7.30	71.30	8,056.1	3.3	-248.3	-248.3	14.87	14.52	40.97	
8,094.0	13.10	75.60	8,087.6	4.8	-242.8	-242.8	18.27	18.13	13.44	
8,125.0	17.30	77.40	8,117.5	6.7	-234.9	-234.9	13.63	13.55	5.81	
8,157.0	20.40	79.10	8,147.8	8.8	-224.8	-224.8	9.84	9.69	5.31	
8,188.0	22.20	79.70	8,176.7	10.9	-213.7	-213.7	5.85	5.81	1.94	
8,220.0	24.30	81.90	8,206.1	12.9	-201.3	-201.3	7.10	6.56	6.88	
8,252.0	27.10	84.40	8,234.9	14.5	-187.5	-187.5	9.38	8.75	7.81	
8,284.0	30.30	86.40	8,263.0	15.7	-172.2	-172.2	10.44	10.00	6.25	
8,316.0	33.80	86.20	8,290.1	16.8	-155.2	-155.2	10.94	10.94	-0.63	
8,348.0	37.20	85.20	8,316.1	18.2	-136.7	-136.7	10.78	10.63	-3.13	
8,379.0	40.60	85.50	8,340.3	19.8	-117.3	-117.3	10.98	10.97	0.97	
8,410.0	43.30	86.30	8,363.3	21.3	-96.7	-96.6	8.88	8.71	2.58	
8,442.0	46.50	88.50	8,386.0	22.3	-74.1	-74.0	11.11	10.00	6.88	
8,473.0	51.50	91.40	8,406.3	22.3	-50.7	-50.7	17.60	16.13	9.35	
8,505.0	55.40	93.30	8,425.4	21.2	-25.0	-25.0	13.09	12.19	5.94	
8,536.0	58.50	93.90	8,442.3	19.6	0.9	0.9	10.13	10.00	1.94	
8,568.0	61.90	93.30	8,458.2	17.9	28.6	28.6	10.75	10.63	-1.88	
8,600.0	65.40	92.80	8,472.4	16.3	57.2	57.3	11.03	10.94	-1.56	
8,631.0	70.10	92.00	8,484.1	15.1	85.9	85.9	15.35	15.16	-2.58	
8,643.0	71.60	91.60	8,488.0	14.8	97.2	97.3	12.89	12.50	-3.33	
8,707.0	77.90	89.20	8,504.9	14.4	158.9	159.0	10.49	9.84	-3.75	
8,738.0	81.80	89.80	8,510.3	14.6	189.4	189.5	12.72	12.58	1.94	
8,770.0	82.30	89.10	8,514.8	15.0	221.1	221.2	2.67	1.56	-2.19	
8,801.0	81.30	88.80	8,519.2	15.5	251.8	251.8	3.37	-3.23	-0.97	
8,833.0	82.00	88.30	8,523.8	16.3	283.5	283.5	2.68	2.19	-1.56	
8,868.0	86.20	89.60	8,527.4	16.9	318.3	318.3	12.56	12.00	3.71	
8,899.0	86.90	89.50	8,529.3	17.2	349.2	349.2	2.28	2.26	-0.32	
8,931.0	89.40	90.00	8,530.3	17.3	381.2	381.2	7.97	7.81	1.56	
8,963.0	92.30	90.70	8,529.9	17.1	413.2	413.2	9.32	9.06	2.19	
8,994.0	91.70	90.80	8,528.8	16.7	444.2	444.2	1.96	-1.94	0.32	
9,025.2	91.01	90.93	8,528.0	16.3	475.4	475.4	2.25	-2.21	0.42	
LP B3JI										
9,089.0	89.60	91.20	8,527.7	15.1	539.1	539.2	2.25	-2.21	0.42	
9,184.0	89.40	91.10	8,528.5	13.2	634.1	634.1	0.24	-0.21	-0.11	
9,279.0	89.50	91.10	8,529.4	11.3	729.1	729.1	0.11	0.11	0.00	
9,373.0	89.60	91.20	8,530.2	9.5	823.1	823.1	0.15	0.11	0.11	
9,467.0	89.60	90.80	8,530.8	7.8	917.0	917.1	0.43	0.00	-0.43	
9,562.0	87.80	91.00	8,533.0	6.3	1,012.0	1,012.0	1.91	-1.89	0.21	
9,622.0	87.70	90.60	8,535.3	5.5	1,072.0	1,072.0	0.69	-0.17	-0.67	
9,716.0	88.00	90.10	8,538.9	4.9	1,165.9	1,165.9	0.62	0.32	-0.53	
9,811.0	88.50	89.90	8,541.8	4.9	1,260.8	1,260.8	0.57	0.53	-0.21	
9,906.0	88.00	90.50	8,544.7	4.6	1,355.8	1,355.8	0.82	-0.53	0.63	
10,001.0	88.60	89.70	8,547.5	4.4	1,450.7	1,450.8	1.05	0.63	-0.84	



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29 28-18S-29E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
10,095.0	87.90	90.50	8,550.4	4.3	1,544.7	1,544.7	1.13	-0.74	0.85
10,189.0	88.00	89.60	8,553.7	4.2	1,638.6	1,638.6	0.96	0.11	-0.96
10,284.0	89.00	89.50	8,556.2	4.9	1,733.6	1,733.6	1.06	1.05	-0.11
10,379.0	89.40	89.00	8,557.5	6.2	1,828.6	1,828.6	0.67	0.42	-0.53
10,474.0	88.10	89.90	8,559.6	7.1	1,923.6	1,923.6	1.66	-1.37	0.95
10,568.0	88.70	89.70	8,562.2	7.4	2,017.5	2,017.5	0.67	0.64	-0.21
10,663.0	88.40	89.00	8,564.6	8.5	2,112.5	2,112.5	0.80	-0.32	-0.74
10,757.0	88.40	88.20	8,567.3	10.8	2,206.4	2,206.4	0.85	0.00	-0.85
10,852.0	88.90	89.50	8,569.5	12.7	2,301.4	2,301.4	1.47	0.53	1.37
10,945.0	88.20	88.60	8,571.9	14.2	2,394.3	2,394.4	1.23	-0.75	-0.97
11,040.0	90.00	89.80	8,573.3	15.5	2,489.3	2,489.3	2.28	1.89	1.26
11,134.0	88.60	89.10	8,574.5	16.4	2,583.3	2,583.3	1.67	-1.49	-0.74
11,228.0	88.70	91.00	8,576.7	16.4	2,677.3	2,677.3	2.02	0.11	2.02
11,323.0	88.00	90.40	8,579.4	15.2	2,772.2	2,772.2	0.97	-0.74	-0.63
11,418.0	87.90	89.80	8,582.8	15.0	2,867.1	2,867.2	0.64	-0.11	-0.63
11,511.0	87.70	89.10	8,586.4	15.9	2,960.1	2,960.1	0.78	-0.22	-0.75
11,606.0	88.80	90.70	8,589.3	16.1	3,055.0	3,055.1	2.04	1.16	1.68
11,662.0	89.10	90.60	8,590.3	15.5	3,111.0	3,111.0	0.56	0.54	-0.18
11,757.0	90.30	90.20	8,590.8	14.8	3,206.0	3,206.0	1.33	1.26	-0.42
11,851.0	89.60	90.10	8,590.9	14.6	3,300.0	3,300.0	0.75	-0.74	-0.11
11,946.0	89.00	90.40	8,592.1	14.1	3,395.0	3,395.0	0.71	-0.63	0.32
12,040.0	88.90	90.10	8,593.8	13.7	3,489.0	3,489.0	0.34	-0.11	-0.32
12,135.0	89.30	90.60	8,595.3	13.1	3,584.0	3,584.0	0.67	0.42	0.53
12,229.0	89.20	90.50	8,596.5	12.2	3,678.0	3,678.0	0.15	-0.11	-0.11
12,324.0	89.00	90.80	8,598.0	11.2	3,772.9	3,773.0	0.38	-0.21	0.32
12,420.0	89.90	90.60	8,598.9	10.0	3,868.9	3,868.9	0.96	0.94	-0.21
12,515.0	90.40	90.60	8,598.7	9.0	3,963.9	3,963.9	0.53	0.53	0.00
12,610.0	89.70	89.50	8,598.6	8.9	4,058.9	4,058.9	1.37	-0.74	-1.16
12,704.0	89.50	89.50	8,599.3	9.7	4,152.9	4,152.9	0.21	-0.21	0.00
12,800.0	87.60	88.90	8,601.7	11.1	4,248.9	4,248.9	2.08	-1.98	-0.63
12,895.0	86.70	88.90	8,606.4	12.9	4,343.7	4,343.7	0.95	-0.95	0.00
12,989.0	88.40	88.90	8,610.4	14.7	4,437.6	4,437.6	1.81	1.81	0.00
13,083.0	88.30	89.20	8,613.1	16.3	4,531.6	4,531.6	0.34	-0.11	0.32
13,178.0	85.70	88.40	8,618.1	18.2	4,626.4	4,626.4	2.86	-2.74	-0.84
13,273.0	87.20	88.30	8,624.0	21.0	4,721.2	4,721.2	1.58	1.58	-0.11
13,367.0	90.00	89.60	8,626.3	22.7	4,815.1	4,815.2	3.28	2.98	1.38
13,462.0	90.10	89.80	8,626.2	23.2	4,910.1	4,910.2	0.24	0.11	0.21
13,557.0	89.90	90.40	8,626.2	23.0	5,005.1	5,005.2	0.67	-0.21	0.63
13,650.0	89.90	90.10	8,626.4	22.6	5,098.1	5,098.2	0.32	0.00	-0.32
13,744.0	89.60	89.90	8,626.8	22.6	5,192.1	5,192.2	0.38	-0.32	-0.21
13,839.0	89.30	90.10	8,627.7	22.6	5,287.1	5,287.2	0.38	-0.32	0.21
13,933.0	90.00	90.30	8,628.3	22.3	5,381.1	5,381.2	0.77	0.74	0.21
14,028.0	90.30	90.20	8,628.0	21.9	5,476.1	5,476.2	0.33	0.32	-0.11



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B3JI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3463+27 @ 3490.0usft
Site:	Section 29 28-18S-29E Pavo Frio	MD Reference:	3463+27 @ 3490.0usft
Well:	Pavo Frio 29/28 B3JI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
14,122.0	89.60	89.80	8,628.1	21.9	5,570.1	5,570.2	0.86	-0.74	-0.43
14,217.0	89.40	88.80	8,628.9	23.0	5,665.1	5,665.1	1.07	-0.21	-1.05
14,311.0	89.00	90.10	8,630.2	23.9	5,759.1	5,759.1	1.45	-0.43	1.38
14,405.0	87.40	89.70	8,633.2	24.1	5,853.0	5,853.1	1.75	-1.70	-0.43
14,500.0	87.60	86.70	8,637.3	27.1	5,947.9	5,947.9	3.16	0.21	-3.16
14,594.0	87.90	86.00	8,641.0	33.1	6,041.6	6,041.7	0.81	0.32	-0.74
14,688.0	89.20	88.30	8,643.4	37.7	6,135.5	6,135.5	2.81	1.38	2.45
14,783.0	89.40	88.30	8,644.6	40.6	6,230.4	6,230.5	0.21	0.21	0.00
14,877.0	88.00	90.90	8,646.7	41.2	6,324.4	6,324.5	3.14	-1.49	2.77
14,972.0	87.00	91.70	8,650.8	39.1	6,419.3	6,419.3	1.35	-1.05	0.84
15,066.0	88.80	92.00	8,654.3	36.0	6,513.2	6,513.2	1.94	1.91	0.32
15,160.0	88.30	93.40	8,656.7	31.6	6,607.0	6,607.1	1.58	-0.53	1.49
15,255.0	88.50	90.10	8,659.3	28.7	6,701.9	6,702.0	3.48	0.21	-3.47
15,349.0	89.50	89.60	8,661.0	28.9	6,795.9	6,796.0	1.19	1.06	-0.53
15,443.0	89.40	90.80	8,661.9	28.6	6,889.9	6,889.9	1.28	-0.11	1.28
15,537.0	89.20	91.30	8,663.0	26.9	6,983.9	6,983.9	0.57	-0.21	0.53
15,632.0	88.00	91.30	8,665.3	24.7	7,078.8	7,078.9	1.26	-1.26	0.00
15,727.0	90.20	90.60	8,666.8	23.2	7,173.8	7,173.8	2.43	2.32	-0.74
15,822.0	90.70	90.50	8,666.1	22.3	7,268.8	7,268.8	0.54	0.53	-0.11
15,917.0	88.50	90.70	8,666.7	21.3	7,363.8	7,363.8	2.33	-2.32	0.21
16,012.0	88.80	91.10	8,669.0	19.8	7,458.7	7,458.8	0.53	0.32	0.42
16,067.0	88.60	91.10	8,670.2	18.7	7,513.7	7,513.7	0.36	-0.36	0.00
16,117.8	88.60	91.10	8,671.5	17.7	7,564.5	7,564.5	0.00	0.00	0.00
PBHL B3JI									
16,133.0	88.60	91.10	8,671.8	17.4	7,579.7	7,579.7	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,133.0	8,671.8	17.4	7,579.7	16133.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____