

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

EMNRD-OC D ARTESIA

REC'D: 5/06/2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

As Drilled

¹ API Number 30-015-46215		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp (Gas)	
⁴ Property Code 326029		⁵ Property Name YUMA 3/10 WODM STATE COM			⁶ Well Number 2H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3002'

¹⁰ Surface Location

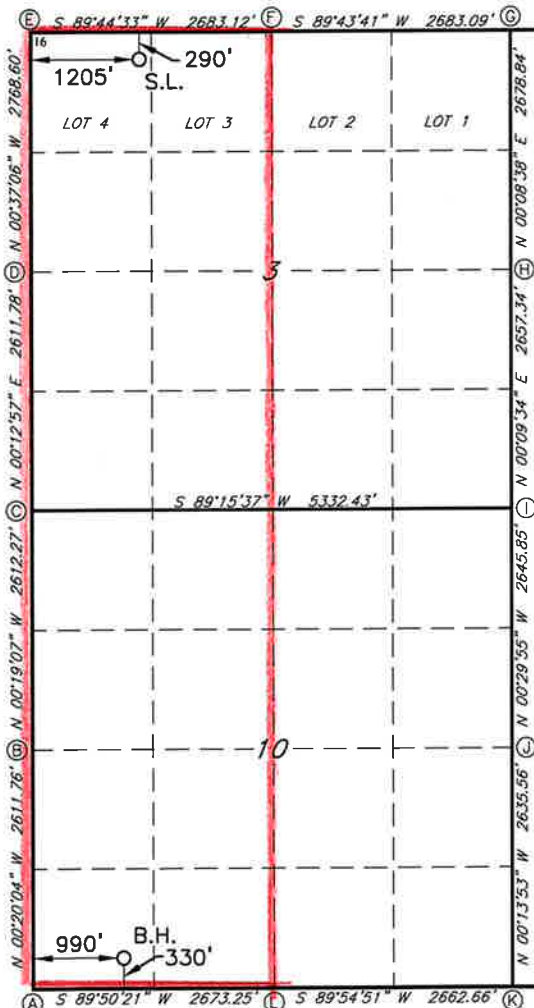
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	3	25S	28E		290	NORTH	1205	WEST	EDDY

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
M	10	25S	28E		320	SOUTH	996'	WEST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N: 424113.3 - E: 619752.3
LAT: 32.1657118° N
LONG: 104.0799163° W
BOTTOM HOLE
N: 414128.8 - E: 619582.0
LAT: 32.1382664° N
LONG: 104.0805423° W
CORNER DATA
NAD 83 GRID - NM EAST
A: FOUND BRASS CAP "1940"
N: 413796.1 - E: 618594.1
B: FOUND BRASS CAP "1940"
N: 416407.2 - E: 618578.9
C: FOUND BRASS CAP "1940"
N: 419018.9 - E: 618564.4
D: FOUND BRASS CAP "1940"
N: 421630.1 - E: 618574.2
E: FOUND BRASS CAP "1940"
N: 424397.9 - E: 618544.3
F: FOUND BRASS CAP "1940"
N: 424409.9 - E: 621226.8
G: FOUND BRASS CAP "1940"
N: 424422.7 - E: 623909.3
H: FOUND BRASS CAP "1940"
N: 421744.4 - E: 623902.6
I: FOUND BRASS CAP "1940"
N: 419087.7 - E: 623895.2
J: FOUND BRASS CAP "1940"
N: 416442.5 - E: 623918.2
K: FOUND BRASS CAP "1940"
N: 413807.6 - E: 623928.9
L: FOUND BRASS CAP "1940"
N: 413803.6 - E: 621266.8

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: **04/14/20**
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.

07-08-2019

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



RRR-Job No: LS19070746

Intent ☐ As Drilled ☒

API # 30-015-46215			
Operator Name: Mewbourne Oil Company		Property Name: Yuma 3/10 W0DM State Com	Well Number #2H

Kick Off Point (KOP)

UL D	Section 3	Township 25S	Range 28E	Lot	Feet 80	From N/S N	Feet 1002	From E/W W	County Edley
Latitude 32.1663696					Longitude -104.0805648				NAD 83

First Take Point (FTP)

UL D	Section 3	Township 25S	Range 28E	Lot	Feet 440	From N/S N	Feet 1021	From E/W W	County Edley
Latitude 32.1653160					Longitude -104.0805120				NAD 83

Last Take Point (LTP)

UL M	Section 10	Township 28S	Range 28E	Lot	Feet 354	From N/S S	Feet 996	From E/W W	County Edley
Latitude 32.1383320					Longitude -104.0805270				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-46222			
Operator Name: Mewbourne Oil Co		Property Name: Yuma 3/10 W1DM State Com	Well Number #1H

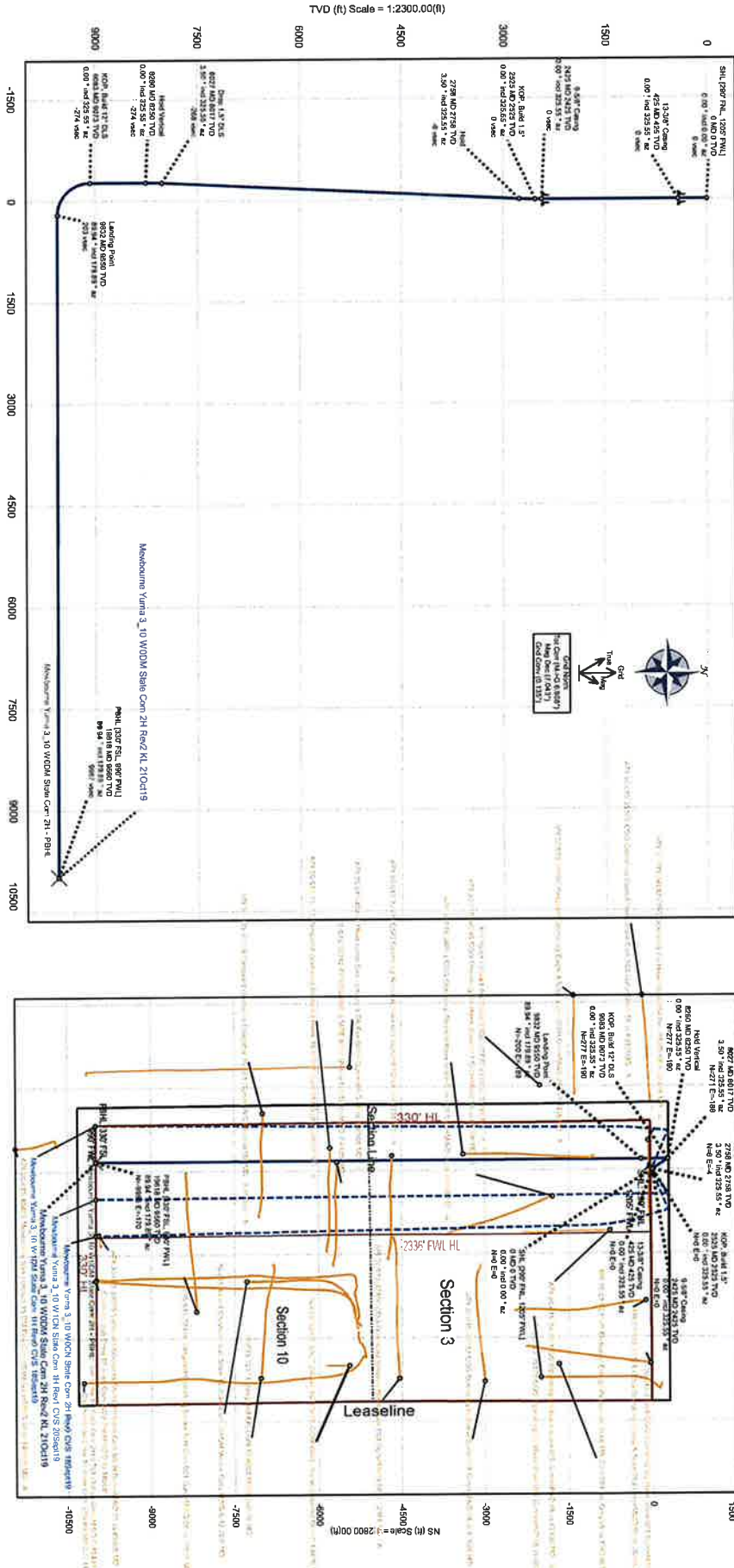
KZ 06/29/2018

Borehole: Yuma_3_10 W0DM State Com 2H Well: Yuma_3_10 W0DM State Com 2H Field: NM Eddy County (NAD 83) Structure: Mewbourne Oil Yuma_3_10 W0DM State Com 2H

Gravity & Magnetic Parameters Model: HQDM 2019 Date: 21-Oct-2019 Surface Location: NAD83 New Mexico State Plane, Eastern Zone, US Feet North: 42411.3MUS East: 619752.3MUS Scale Feet: 0.1348° Miscellaneous: New Slot New Slot: RKHJ3000 above NSL

Modific: 7.0437 FS: 47833.959MT Gravity FS: 998.457mgal (3.00655 Based) Lon: W 104.4 47.70 Easting: 619752.3MUS Plan: Mewbourne Yuma_3_10 W0DM State Com 2H Rev2 HL 21Oct19

Critical Point	MD	MCL	AZM	TVD	VEIC	N(+NS)	E(+NW)	DLS
SHL (290' FWL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.3/8" Casing	425.00	0.00	325.55	425.00	0.00	0.00	0.00	0.00
9.5/8" Casing	2425.00	0.00	325.55	2425.00	0.00	0.00	0.00	0.00
KOP Build 1.5"	2525.00	0.00	325.55	2525.00	0.00	0.00	0.00	0.00
Hold	2758.95	3.50	325.55	2758.20	-5.81	5.88	-4.03	1.50
Drop 1.5" DLS	8026.77	3.50	325.55	8016.80	-267.91	271.12	-185.97	0.00
Hold Vertical	8250.12	0.00	325.55	8250.00	-273.72	277.00	-190.00	1.50
KOP Build 12" DLS	9092.65	0.00	325.55	9072.53	-273.72	277.00	-190.00	0.00
Landing Point	9832.16	89.94	179.89	9550.00	203.17	-199.98	-189.09	12.00
PBHL (330' FSL, 990' FWL)	19617.57	89.94	179.89	9550.00	9986.81	-9986.36	-170.31	0.00





February 11, 2020

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
Yuma 3 10 W0DM State Com #002H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-46215

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>
Keith Broussard	Original Hole	9,702ft. to 19,524ft.	11-11-19 to 11-19-19	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\Yuma 3 10 W0DM State Com #2HM191216

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

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



February 11, 2020

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 November 11, 2019, through November 19, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 9,702feet to a depth of 19,524feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Yuma 3 10 W0DM State Com #2H, well API # **30-015-46215** 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: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 WDDM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference: Well Yuma 3/10 WDDM State Com 2H
TVD Reference: 3002+28 @ 3030.0usft (Patterson 230)
MD Reference: 3002+28 @ 3030.0usft (Patterson 230)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey Program From To Date 11/19/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,665.0	SLB Surveys (Original Hole)	MWD	MWD v3:standard declination
9,702.0	19,559.0	Stryker Surveys (Original Hole)	MWD	MWD v3:standard declination

Survey	MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (")	D Leg ("/100usft)	Northing (usft)	Easting (usft)
	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.00	424,113.30	619,752.30
	100.0	0.37	256.58	100.0	-0.1	-0.3	0.3	256.58	0.37	424,113.23	619,751.98
	200.0	0.13	354.26	200.0	0.0	-0.6	0.6	268.69	0.41	424,113.26	619,751.66
	300.0	0.19	89.04	300.0	0.1	-0.5	0.5	279.21	0.24	424,113.38	619,751.81
	400.0	1.76	296.75	400.0	0.8	-1.7	1.9	294.56	1.93	424,114.07	619,750.81
	410.0	0.33	317.12	410.0	0.9	-1.8	2.0	295.04	14.55	424,114.16	619,750.45
	553.0	2.38	315.18	552.9	3.3	-4.2	5.3	307.78	1.43	424,116.57	619,748.08
	612.0	2.38	321.73	611.9	5.1	-5.8	7.8	311.13	0.46	424,118.40	619,746.46
	670.0	1.26	32.11	669.9	6.6	-6.3	9.1	316.51	3.95	424,119.89	619,746.05
	734.0	1.83	78.99	733.8	7.4	-4.9	8.8	326.58	2.09	424,120.68	619,747.43
	828.0	2.75	99.20	827.8	7.3	-1.2	7.4	350.87	1.29	424,120.60	619,751.13
	922.0	0.51	169.56	921.7	6.5	1.1	6.6	9.80	2.79	424,119.83	619,753.43
	1,016.0	1.15	209.14	1,015.7	5.3	0.7	5.3	8.01	0.88	424,118.60	619,753.05
	1,110.0	1.35	204.87	1,109.7	3.5	-0.2	3.5	357.03	0.23	424,116.77	619,752.12
	1,204.0	1.54	209.62	1,203.7	1.4	-1.3	1.9	317.10	0.24	424,114.67	619,751.03
	1,298.0	1.69	208.74	1,297.6	-0.9	-2.6	2.7	249.70	0.16	424,112.35	619,749.74
	1,393.0	0.36	201.19	1,392.6	-2.5	-3.3	4.1	233.71	1.40	424,110.85	619,748.96
	1,487.0	0.13	326.07	1,486.6	-2.6	-3.5	4.4	233.03	0.48	424,110.66	619,748.79
	1,582.0	0.06	6.44	1,581.6	-2.5	-3.6	4.4	234.93	0.10	424,110.80	619,748.74
	1,676.0	0.80	333.04	1,675.6	-1.9	-3.9	4.3	244.15	0.80	424,111.43	619,748.45
	1,771.0	0.38	172.51	1,770.6	-1.6	-4.1	4.4	248.88	1.23	424,111.71	619,748.19



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 WDDM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Yuma 3/10 WDDM State Com 2H
3002+28 @ 3030.0usft (Patterson 230)
3002+28 @ 3030.0usft (Patterson 230)
Grid
Minimum Curvature
EDM5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	D/Leg (°/100usft)	Northing (usft)	Easting (usft)
	1,865.0	0.86	125.35	1,864.6	-2.3	-3.5	4.2	236.61	0.71	424,110.99	619,748.80
	1,960.0	1.55	129.22	1,959.6	-3.5	-1.9	4.0	208.55	0.73	424,108.77	619,750.38
	2,054.0	0.51	87.08	2,053.6	-4.3	-0.5	4.3	186.86	1.30	424,108.99	619,751.78
	2,148.0	0.83	85.00	2,147.6	-4.2	0.6	4.3	172.24	0.34	424,109.07	619,752.88
	2,243.0	0.29	90.54	2,242.5	-4.2	1.5	4.4	160.20	0.57	424,109.12	619,753.80
	2,337.0	0.34	86.01	2,336.5	-4.2	2.0	4.6	154.10	0.06	424,109.14	619,754.32
	2,407.0	0.53	94.10	2,406.5	-4.2	2.5	4.9	148.54	0.28	424,109.13	619,754.85
	2,463.0	0.64	89.46	2,462.5	-4.2	3.1	5.2	143.28	0.21	424,109.12	619,755.42
	2,557.0	2.11	326.80	2,556.5	-2.7	2.7	3.8	135.33	2.67	424,110.57	619,755.00
	2,652.0	3.85	328.48	2,651.4	1.4	0.0	1.4	359.12	1.83	424,114.69	619,762.28
	2,746.0	4.40	329.89	2,745.1	7.1	-3.6	8.0	333.43	0.64	424,120.44	619,748.73
	2,841.0	4.45	331.53	2,839.9	13.5	-7.2	15.3	332.13	0.14	424,126.84	619,745.14
	2,935.0	4.55	330.52	2,933.6	20.0	-10.7	22.7	331.77	0.14	424,133.29	619,741.57
	3,029.0	4.63	332.95	3,027.3	26.6	-14.3	30.2	331.76	0.22	424,138.91	619,738.01
	3,124.0	4.59	332.13	3,122.0	33.4	-17.8	37.8	331.92	0.08	424,146.69	619,734.49
	3,218.0	4.76	333.94	3,215.7	40.2	-21.3	45.5	332.11	0.24	424,153.52	619,731.02
	3,313.0	4.89	334.88	3,310.3	47.3	-24.7	53.3	332.45	0.11	424,160.57	619,727.64
	3,407.0	4.72	334.61	3,404.0	54.2	-28.0	61.0	332.74	0.04	424,167.55	619,724.35
	3,501.0	4.62	334.28	3,497.7	61.2	-31.3	68.7	332.93	0.11	424,174.45	619,721.05
	3,596.0	4.51	333.80	3,592.4	67.9	-34.6	76.2	333.04	0.12	424,181.25	619,717.74
	3,690.0	4.45	335.00	3,686.1	74.6	-37.7	83.6	333.16	0.12	424,187.87	619,714.56
	3,784.0	4.39	335.12	3,779.8	81.1	-40.8	90.8	333.31	0.06	424,194.44	619,711.51
	3,879.0	4.30	335.33	3,874.6	87.7	-43.8	98.0	333.45	0.10	424,200.87	619,708.49
	3,973.0	4.26	335.93	3,968.3	94.1	-46.7	105.0	333.60	0.08	424,207.36	619,705.60
	4,067.0	4.30	334.64	4,062.0	100.4	-49.6	112.0	333.70	0.11	424,213.74	619,702.66
	4,162.0	4.57	333.71	4,156.7	107.0	-52.8	119.4	333.73	0.29	424,220.35	619,698.46
	4,256.0	4.63	334.28	4,250.4	113.8	-56.1	126.9	333.75	0.08	424,227.12	619,696.16



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 W0DM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference: Well Yuma 3/10 W0DM State Com 2H
TVD Reference: 3002+28 @ 3030.0usft (Patterson 230)
MD Reference: 3002+28 @ 3030.0usft (Patterson 230)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
	4,351.0	4.63	334.84	4,345.1	120.7	-59.4	134.6	333.79	0.05	424,234.05	619,692.86
	4,446.0	4.57	333.57	4,439.8	127.6	-62.8	142.2	333.81	0.12	424,240.91	619,589.55
	4,540.0	4.55	334.45	4,533.5	134.3	-66.0	149.7	333.82	0.08	424,247.62	619,686.27
	4,635.0	4.53	318.11	4,628.2	140.5	-70.2	157.1	333.47	1.36	424,253.82	619,682.14
	4,729.0	4.78	309.58	4,721.9	145.8	-75.7	164.2	332.57	0.78	424,259.08	619,676.65
	4,823.0	4.92	309.58	4,815.6	150.8	-81.8	171.6	331.54	0.15	424,264.14	619,670.52
	4,918.0	4.76	308.86	4,910.3	155.9	-88.0	179.0	330.56	0.18	424,269.21	619,664.31
	5,012.0	4.59	309.78	5,003.9	160.8	-93.9	186.2	329.71	0.20	424,274.06	619,658.38
	5,106.0	4.35	307.18	5,097.7	165.3	-99.6	193.0	328.92	0.33	424,278.62	619,652.65
	5,201.0	4.34	304.17	5,192.4	169.5	-105.5	199.7	328.11	0.24	424,282.82	619,646.81
	5,295.0	4.36	306.86	5,286.1	173.7	-111.3	206.3	327.35	0.22	424,286.96	619,641.01
	5,390.0	4.35	310.35	5,380.8	178.2	-116.9	213.1	326.72	0.28	424,291.46	619,635.37
	5,484.0	5.59	323.51	5,474.5	184.1	-122.4	221.1	326.40	1.78	424,297.45	619,629.93
	5,578.0	5.18	322.95	5,568.1	191.2	-127.6	229.9	326.27	0.44	424,304.52	619,624.85
	5,673.0	5.17	323.68	5,662.7	198.1	-132.8	238.5	326.17	0.07	424,311.39	619,619.53
	5,767.0	4.98	322.72	5,756.3	204.7	-137.7	246.8	326.07	0.22	424,318.05	619,614.55
	5,861.0	4.73	321.97	5,850.0	211.0	-142.6	254.7	325.95	0.27	424,324.35	619,609.69
	5,955.0	4.84	321.82	5,943.7	217.2	-147.4	262.5	325.83	0.12	424,330.52	619,604.86
	6,049.0	4.58	320.63	6,037.3	223.2	-152.3	270.2	325.70	0.30	424,336.53	619,600.02
	6,143.0	4.56	318.49	6,131.0	228.9	-157.1	277.7	325.54	0.18	424,342.23	619,595.17
	6,237.0	4.36	317.32	6,224.7	234.4	-162.0	284.9	325.34	0.23	424,347.66	619,590.27
	6,332.0	4.50	319.12	6,319.5	239.8	-166.9	292.2	325.16	0.21	424,353.13	619,585.38
	6,426.0	4.65	319.58	6,413.2	245.5	-171.8	299.7	325.02	0.16	424,358.82	619,580.50
	6,520.0	4.34	318.86	6,506.9	251.1	-176.6	307.0	324.88	0.34	424,364.40	619,575.69
	6,613.0	3.99	318.60	6,599.6	256.2	-181.1	313.7	324.75	0.38	424,369.48	619,571.23
	6,707.0	3.59	322.78	6,693.4	261.0	-185.0	319.9	324.67	0.52	424,374.27	619,567.29
	6,800.0	3.17	321.07	6,786.3	265.3	-188.4	325.4	324.62	0.46	424,378.59	619,563.91



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 WDDM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference: Well Yuma 3/10 WDDM State Com 2H
TVD Reference: 3002+28 @ 3030.0usft (Patterson 230)
MD Reference: 3002+28 @ 3030.0usft (Patterson 230)
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 (°)	D/Leg (°/100usft)	Northing (usft)	Easting (usft)
	6,895.0	1.85	325.23	6,881.2	268.6	-190.9	329.5	324.60	1.40	424,381.89	619,561.39
	6,989.0	1.74	318.06	6,975.1	270.9	-192.7	332.5	324.57	0.27	424,384.20	619,559.57
	7,083.0	2.06	309.28	7,069.1	273.0	-195.0	335.5	324.47	0.46	424,386.33	619,557.31
	7,178.0	1.73	327.53	7,164.0	275.3	-197.1	338.6	324.40	0.72	424,388.62	619,555.21
	7,272.0	0.73	20.46	7,258.0	277.1	-197.6	340.3	324.50	1.51	424,390.38	619,554.66
	7,366.0	0.51	85.27	7,352.0	277.7	-197.0	340.5	324.64	0.73	424,390.98	619,555.29
	7,461.0	0.72	139.81	7,447.0	277.3	-196.2	339.7	324.71	0.62	424,390.56	619,556.10
	7,555.0	1.12	157.18	7,541.0	276.0	-195.5	338.2	324.69	0.51	424,389.26	619,556.83
	7,649.0	1.34	151.17	7,635.0	274.1	-194.6	336.2	324.63	0.27	424,387.45	619,557.72
	7,744.0	1.41	156.34	7,729.9	272.1	-193.6	333.9	324.57	0.15	424,385.41	619,558.72
	7,837.0	1.15	152.78	7,822.9	270.2	-192.7	331.9	324.51	0.29	424,383.53	619,559.61
	7,932.0	0.88	148.92	7,917.9	268.8	-191.9	330.2	324.48	0.29	424,382.06	619,560.42
	8,026.0	0.73	180.48	8,011.9	267.5	-191.5	329.0	324.40	0.49	424,380.84	619,560.79
	8,120.0	0.58	225.50	8,105.9	266.6	-191.9	328.5	324.26	0.55	424,379.91	619,560.45
	8,214.0	0.68	231.05	8,199.9	265.9	-192.6	328.4	324.08	0.12	424,379.22	619,559.67
	8,308.0	0.60	221.57	8,293.9	265.2	-193.4	328.2	323.90	0.14	424,378.50	619,558.91
	8,402.0	0.86	200.93	8,387.9	264.2	-194.0	327.7	323.71	0.39	424,377.48	619,558.33
	8,496.0	1.09	195.38	8,481.8	262.7	-194.5	326.8	323.49	0.26	424,375.96	619,557.84
	8,590.0	2.58	185.70	8,575.8	259.7	-194.9	324.7	323.11	1.61	424,372.99	619,557.40
	8,685.0	3.26	192.06	8,670.7	254.9	-195.7	321.4	322.49	0.79	424,368.22	619,556.62
	8,779.0	3.21	198.65	8,764.5	249.8	-197.1	318.2	321.73	0.40	424,363.11	619,555.22
	8,874.0	3.20	199.98	8,859.4	244.8	-198.8	315.4	320.92	0.08	424,358.10	619,553.46
	8,968.0	3.16	203.65	8,953.2	240.0	-200.8	312.9	320.08	0.22	424,353.26	619,551.53
	8,990.0	3.25	204.21	8,975.2	238.8	-201.3	312.3	319.88	0.43	424,352.14	619,551.03
	9,101.0	6.21	187.32	9,085.8	230.0	-203.3	307.0	318.52	2.92	424,343.31	619,548.97
	9,148.0	11.90	173.52	9,132.2	222.7	-203.1	301.4	317.63	12.87	424,335.97	619,549.20
	9,195.0	17.58	168.80	9,177.6	210.9	-201.2	291.4	316.35	12.34	424,324.18	619,551.12



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 WDDM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3002+28 @ 3030.0usft (Patterson 230)
MD Reference: 3002+28 @ 3030.0usft (Patterson 230)
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 (°)	D/Leg (°/100usft)	Northing (usft)	Easting (usft)
First Stryker Surveys	9,241.0	21.56	173.81	9,221.0	195.7	-198.9	279.0	314.53	9.38	424,308.95	619,553.39
	9,288.0	26.54	177.91	9,263.9	176.6	-197.6	265.0	311.78	11.17	424,289.86	619,554.70
	9,383.0	37.80	179.61	9,344.2	126.1	-196.6	233.6	302.67	11.89	424,239.38	619,555.68
	9,477.0	51.40	177.91	9,411.0	60.3	-195.1	204.2	287.16	14.52	424,173.55	619,557.22
	9,571.0	66.24	177.31	9,459.5	-19.9	-191.7	192.7	264.08	15.80	424,093.43	619,560.80
	9,618.0	71.12	176.56	9,476.6	-83.6	-189.4	199.7	251.44	10.49	424,049.72	619,562.94
	9,665.0	75.55	176.89	9,490.0	-108.5	-186.7	216.0	239.83	9.43	424,004.78	619,565.59
	9,702.0	77.50	174.80	9,498.7	-144.4	-184.0	233.9	231.88	7.24	423,968.90	619,568.26
	9,797.0	83.20	175.70	9,514.6	-237.7	-176.3	295.9	216.56	6.07	423,875.61	619,573.01
	9,890.0	84.20	178.70	9,524.8	-330.0	-171.8	372.0	207.50	3.38	423,783.29	619,580.52
	9,985.0	84.90	180.50	9,533.8	-424.6	-171.1	457.8	201.95	2.02	423,688.73	619,581.18
	10,079.0	86.30	180.80	9,541.0	-518.3	-172.2	546.1	198.38	1.52	423,595.01	619,580.12
	10,173.0	87.60	181.20	9,546.0	-612.1	-173.8	636.3	195.85	1.45	423,501.16	619,578.48
	10,267.0	91.20	182.40	9,547.0	-706.1	-176.8	727.9	194.06	4.04	423,407.23	619,575.53
	10,362.0	89.00	179.00	9,546.8	-801.0	-177.9	820.6	192.52	4.26	423,312.26	619,574.37
	10,458.0	89.10	178.60	9,548.4	-895.0	-176.0	912.1	191.12	0.44	423,218.29	619,576.33
	10,551.0	88.50	178.60	9,550.4	-980.0	-173.6	1,005.1	189.95	0.63	423,123.34	619,578.65
	10,645.0	88.80	179.80	9,552.6	-1,083.9	-172.3	1,097.5	189.03	1.32	423,029.38	619,579.97
	10,740.0	88.90	181.10	9,554.5	-1,178.9	-173.1	1,181.5	188.35	1.37	422,934.40	619,579.22
	10,834.0	89.10	181.00	9,556.2	-1,272.9	-174.8	1,284.8	187.82	0.24	422,840.43	619,577.50
	10,928.0	89.30	181.30	9,557.5	-1,366.8	-176.7	1,378.2	187.37	0.38	422,746.48	619,575.61
	11,023.0	89.80	179.80	9,558.2	-1,461.8	-177.6	1,472.6	186.93	1.66	422,651.47	619,574.70
	11,118.0	90.60	180.50	9,557.9	-1,556.8	-177.8	1,566.9	186.52	1.12	422,556.48	619,574.45
	11,212.0	89.30	178.90	9,558.0	-1,650.8	-177.4	1,660.3	186.13	2.19	422,462.48	619,574.94
	11,307.0	88.90	178.00	9,559.5	-1,745.8	-174.8	1,754.5	185.72	1.04	422,367.53	619,577.51
	11,401.0	89.70	178.50	9,560.6	-1,839.7	-171.9	1,847.7	185.34	1.00	422,273.58	619,580.38



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 WODM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference: 3002+28 @ 3030.0usft (Patterson 230)
MD Reference: 3002+28 @ 3030.0usft (Patterson 230)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
11,496.0	90.20	178.20	9,560.7	-1,934.7	-169.2	1,942.1	185.00	0.61	422,178.62	619,583.12
11,590.0	90.40	179.30	9,560.2	-2,028.7	-167.1	2,035.5	184.71	1.19	422,084.65	619,585.17
11,684.0	90.00	180.30	9,559.9	-2,122.7	-166.8	2,129.2	184.49	1.15	421,990.65	619,585.50
11,779.0	90.20	180.50	9,559.7	-2,217.6	-167.5	2,224.0	184.32	0.30	421,895.65	619,584.83
11,873.0	90.30	179.90	9,559.3	-2,311.6	-167.8	2,317.7	184.15	0.65	421,801.65	619,584.51
11,967.0	90.20	180.00	9,558.9	-2,405.6	-167.7	2,411.5	183.99	0.15	421,707.65	619,584.59
12,062.0	90.50	180.40	9,558.3	-2,500.6	-168.0	2,506.3	183.84	0.53	421,612.66	619,584.26
12,156.0	90.70	180.50	9,557.3	-2,594.6	-168.8	2,600.1	183.72	0.24	421,518.67	619,583.52
12,250.0	90.40	179.80	9,556.4	-2,688.6	-169.0	2,693.9	183.60	0.81	421,424.67	619,583.27
12,344.0	89.90	180.20	9,556.2	-2,782.6	-169.0	2,787.8	183.48	0.68	421,330.67	619,583.27
12,438.0	89.60	179.80	9,556.6	-2,876.6	-169.0	2,881.8	183.36	0.53	421,236.67	619,583.27
12,532.0	89.80	180.00	9,557.1	-2,970.6	-168.9	2,975.4	183.25	0.30	421,142.67	619,583.44
12,627.0	89.60	180.20	9,557.6	-3,065.6	-169.0	3,070.3	183.16	0.30	421,047.68	619,583.27
12,721.0	90.50	180.90	9,557.5	-3,159.6	-169.9	3,164.2	183.08	1.21	420,953.68	619,582.37
12,814.0	89.40	180.20	9,557.6	-3,252.6	-170.8	3,257.1	183.01	1.40	420,860.69	619,581.48
12,908.0	88.50	179.50	9,559.3	-3,346.6	-170.6	3,350.9	182.92	1.21	420,766.71	619,581.72
13,002.0	89.90	179.50	9,560.6	-3,440.6	-169.8	3,444.8	182.82	1.49	420,672.72	619,582.54
13,097.0	89.80	180.40	9,560.9	-3,535.6	-169.7	3,539.6	182.75	0.95	420,577.72	619,582.62
13,191.0	89.50	179.30	9,561.4	-3,629.6	-169.4	3,633.5	182.67	1.21	420,483.73	619,582.87
13,285.0	90.10	178.70	9,561.8	-3,723.6	-167.8	3,727.3	182.58	0.90	420,389.74	619,584.51
13,379.0	89.80	180.10	9,561.8	-3,817.6	-166.8	3,821.2	182.50	1.52	420,295.75	619,585.50
13,473.0	89.50	180.30	9,562.4	-3,911.5	-167.1	3,915.1	182.45	0.38	420,201.75	619,585.17
13,568.0	89.40	180.30	9,563.3	-4,006.5	-167.6	4,010.0	182.40	0.11	420,106.76	619,584.67
13,662.0	91.30	181.80	9,562.7	-4,100.5	-169.4	4,104.0	182.36	2.58	420,012.78	619,582.95
13,757.0	90.80	181.40	9,561.0	-4,195.5	-172.0	4,199.0	182.35	0.67	419,917.84	619,580.30
13,851.0	90.90	182.00	9,559.6	-4,289.4	-174.8	4,293.0	182.33	0.65	419,823.89	619,577.51
13,945.0	90.90	180.90	9,558.1	-4,383.4	-177.2	4,386.9	182.31	1.17	419,729.93	619,575.13



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 WDDM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference: Well Yuma 3/10 WDDM State Com 2H
TVD Reference: 3002+28 @ 3030.0usft (Patterson 230)
MD Reference: 3002+28 @ 3030.0usft (Patterson 230)
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 (°)	D/Leg (°/100usft)	Northing (usft)	Easting (usft)
	14,040.0	89.60	179.70	9,557.7	-4,478.4	-177.7	4,481.9	182.27	1.86	419,634.94	619,574.63
	14,134.0	90.20	180.50	9,557.9	-4,572.4	-177.8	4,575.8	182.23	1.06	419,540.94	619,574.47
	14,228.0	89.80	180.00	9,557.9	-4,666.4	-178.2	4,669.8	182.19	0.68	419,448.94	619,574.06
	14,322.0	90.10	180.10	9,558.0	-4,760.4	-178.3	4,763.7	182.15	0.34	419,352.94	619,573.98
	14,417.0	89.50	180.10	9,558.3	-4,855.4	-178.5	4,858.6	182.11	0.63	419,257.94	619,573.81
	14,511.0	90.30	178.80	9,558.5	-4,949.4	-177.6	4,952.5	182.05	1.62	419,163.95	619,574.71
	14,605.0	89.20	178.00	9,558.9	-5,043.3	-175.0	5,046.3	181.99	1.45	419,069.99	619,577.34
	14,699.0	89.90	179.50	9,559.6	-5,137.3	-172.9	5,140.2	181.93	1.76	418,976.02	619,579.39
	14,793.0	89.30	180.00	9,560.3	-5,231.3	-172.5	5,234.1	181.89	0.83	418,882.02	619,579.80
	14,887.0	90.40	180.10	9,560.5	-5,325.3	-172.6	5,328.1	181.86	1.18	418,788.02	619,579.71
	14,982.0	90.90	181.60	9,559.4	-5,420.3	-174.0	5,423.1	181.84	1.66	418,693.04	619,578.31
	15,076.0	89.30	180.60	9,559.3	-5,514.2	-175.8	5,517.0	181.83	2.01	418,599.06	619,576.50
	15,171.0	88.60	178.90	9,561.0	-5,609.2	-175.4	5,612.0	181.79	1.93	418,504.08	619,576.92
	15,265.0	90.20	177.20	9,562.0	-5,703.1	-172.2	5,705.7	181.73	2.48	418,410.15	619,580.11
	15,360.0	89.80	176.50	9,562.0	-5,798.0	-167.0	5,800.4	181.65	0.85	418,315.29	619,585.33
	15,454.0	90.60	179.60	9,561.7	-5,891.9	-163.8	5,894.2	181.59	3.41	418,221.36	619,588.53
	15,548.0	89.20	181.10	9,561.8	-5,985.9	-164.3	5,988.2	181.57	2.18	418,127.37	619,587.96
	15,643.0	90.00	180.50	9,562.5	-6,080.9	-165.7	6,083.2	181.56	1.05	418,032.38	619,586.63
	15,737.0	89.60	180.50	9,562.8	-6,174.9	-166.5	6,177.2	181.54	0.43	417,938.39	619,585.81
	15,831.0	89.80	180.40	9,563.3	-6,268.9	-167.2	6,271.1	181.53	0.24	417,844.39	619,585.07
	15,926.0	89.60	180.50	9,563.8	-6,363.9	-168.0	6,366.1	181.51	0.24	417,749.39	619,584.33
	16,019.0	91.00	180.90	9,563.3	-6,456.9	-169.1	6,459.1	181.50	1.57	417,656.41	619,583.19
	16,114.0	91.10	181.80	9,561.6	-6,551.9	-171.3	6,554.1	181.50	0.95	417,561.45	619,580.95
	16,208.0	91.50	182.10	9,559.5	-6,645.8	-174.5	6,648.1	181.50	0.53	417,467.53	619,577.76
	16,302.0	90.70	180.80	9,557.6	-6,739.7	-176.9	6,742.0	181.50	1.62	417,373.58	619,575.38
	16,397.0	90.80	180.00	9,556.4	-6,834.7	-177.6	6,837.0	181.49	0.85	417,278.59	619,574.71
	16,490.0	90.10	178.80	9,555.7	-6,927.7	-176.6	6,930.0	181.46	1.49	417,185.60	619,575.69



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 3 10-25S-28E Yuma
Well: Yuma 3/10 WDDM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference: Well Yuma 3/10 WDDM State Com 2H
TVD Reference: 3002+28 @ 3030.0usft (Patterson 230)
MD Reference: 3002+28 @ 3030.0usft (Patterson 230)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
16,585.0	89.60	178.80	9,555.9	-7,022.7	-174.6	7,024.9	181.42	0.53	417,090.62	619,577.68
16,683.0	89.20	177.50	9,557.0	-7,120.6	-171.5	7,122.7	181.38	1.39	416,992.68	619,580.84
16,775.0	89.00	179.20	9,558.4	-7,212.6	-168.8	7,214.5	181.34	1.86	416,900.73	619,583.49
16,868.0	89.70	178.80	9,559.5	-7,305.5	-167.2	7,307.5	181.31	0.87	416,807.75	619,585.11
16,960.0	89.80	179.50	9,559.9	-7,397.5	-165.8	7,399.4	181.28	0.77	416,715.76	619,586.48
17,052.0	89.40	181.20	9,560.5	-7,489.5	-166.4	7,491.4	181.27	1.90	416,623.77	619,585.92
17,144.0	89.40	181.10	9,561.5	-7,581.5	-168.2	7,583.4	181.27	0.11	416,531.80	619,584.07
17,237.0	89.40	180.60	9,562.4	-7,674.5	-169.6	7,676.4	181.27	0.54	416,438.81	619,582.69
17,329.0	89.70	181.40	9,563.2	-7,766.5	-171.2	7,768.4	181.26	0.93	416,346.83	619,581.08
17,421.0	90.10	181.50	9,563.3	-7,858.4	-173.5	7,860.4	181.27	0.45	416,254.86	619,578.76
17,513.0	90.20	180.30	9,563.1	-7,950.4	-175.0	7,952.4	181.26	1.31	416,162.87	619,577.31
17,605.0	91.10	181.00	9,562.0	-8,042.4	-176.0	8,044.3	181.25	1.24	416,070.89	619,576.27
17,698.0	90.40	180.60	9,560.8	-8,135.4	-177.3	8,137.3	181.25	0.87	415,977.90	619,574.97
17,790.0	90.50	179.00	9,560.1	-8,227.4	-177.0	8,229.3	181.23	1.74	415,885.91	619,575.29
17,882.0	90.20	178.70	9,559.5	-8,319.4	-175.2	8,321.2	181.21	0.46	415,793.93	619,577.14
17,974.0	88.30	178.50	9,560.7	-8,411.3	-172.9	8,413.1	181.18	2.08	415,701.97	619,579.38
18,067.0	91.20	179.80	9,561.1	-8,504.3	-171.5	8,506.0	181.16	3.42	415,608.99	619,580.76
18,159.0	89.00	178.90	9,561.0	-8,596.3	-170.5	8,598.0	181.14	2.58	415,517.01	619,581.81
18,251.0	90.60	179.20	9,561.3	-8,688.3	-169.0	8,689.9	181.11	1.77	415,425.02	619,583.33
18,344.0	91.10	178.70	9,559.9	-8,781.3	-167.3	8,782.8	181.09	0.76	415,332.05	619,585.04
18,436.0	90.90	179.40	9,558.3	-8,873.2	-165.7	8,874.8	181.07	0.79	415,240.08	619,586.56
18,528.0	90.50	180.90	9,557.2	-8,965.2	-166.0	8,966.8	181.06	1.69	415,148.09	619,586.32
18,620.0	86.30	180.20	9,559.8	-9,057.2	-166.9	9,058.7	181.06	4.63	415,056.15	619,585.44
18,713.0	88.70	180.50	9,563.8	-9,150.1	-167.4	9,151.6	181.05	2.60	414,963.24	619,584.87
18,804.0	90.90	181.00	9,564.1	-9,241.0	-168.6	9,242.6	181.05	2.48	414,872.26	619,583.68
18,897.0	91.50	180.80	9,562.2	-9,334.0	-170.1	9,335.6	181.04	0.68	414,779.29	619,582.22
18,989.0	91.70	180.80	9,559.6	-9,426.0	-171.4	9,427.5	181.04	0.22	414,687.34	619,580.93



Stryker Energy Directional Services

Survey Report Landscape



Company: Newbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 8 10-25S-28E Yuma
Well: Yuma 3/10 WODM State Com 2H
Wellbore: Original Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Yuma 3/10 WODM State Com 2H
3002+28 @ 3030.0usft (Patterson 230)
3002+28 @ 3030.0usft (Patterson 230)
Grid
Minimum Curvature
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)
	19,082.0	91.20	180.90	9,557.3	-9,518.9	-172.7	9,520.5	181.04	0.55	414,594.38	619,579.56
	19,174.0	91.40	180.50	9,555.2	-9,610.9	-173.9	9,612.5	181.04	0.49	414,502.41	619,578.43
	19,266.0	87.80	178.80	9,553.8	-9,702.9	-173.3	9,704.4	181.02	4.33	414,410.43	619,578.99
	19,359.0	88.60	178.70	9,558.7	-9,795.8	-171.3	9,797.3	181.00	0.87	414,317.50	619,581.02
	19,451.0	88.10	177.90	9,561.4	-9,887.7	-188.6	9,889.2	180.98	1.03	414,225.58	619,583.75
	19,524.0	88.10	177.50	9,563.8	-9,960.6	-165.6	9,962.0	180.95	0.55	414,152.88	619,586.88
	19,559.0	88.10	177.50	9,565.0	-9,985.6	-164.1	9,986.9	180.94	0.00	414,117.73	619,588.20
19559.0' Projected to bit											

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/S (usft)	+E/W (usft)	Comment
9,885.0	9,490.0	-108.5	-186.7	First Stryker Surveys
19,559.0	9,565.0	-9,995.6	-164.1	19559.0' Projected to bit

Checked By: _____

Approved By: _____

Date: _____



COMPANY: Mewbourne Oil Company
 WELL: Yuma 3/10 WODM State Com 2H
 COUNTY: Eddy County, N.M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson 230

STRYKER
 DIRECTIONAL
 OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.79°

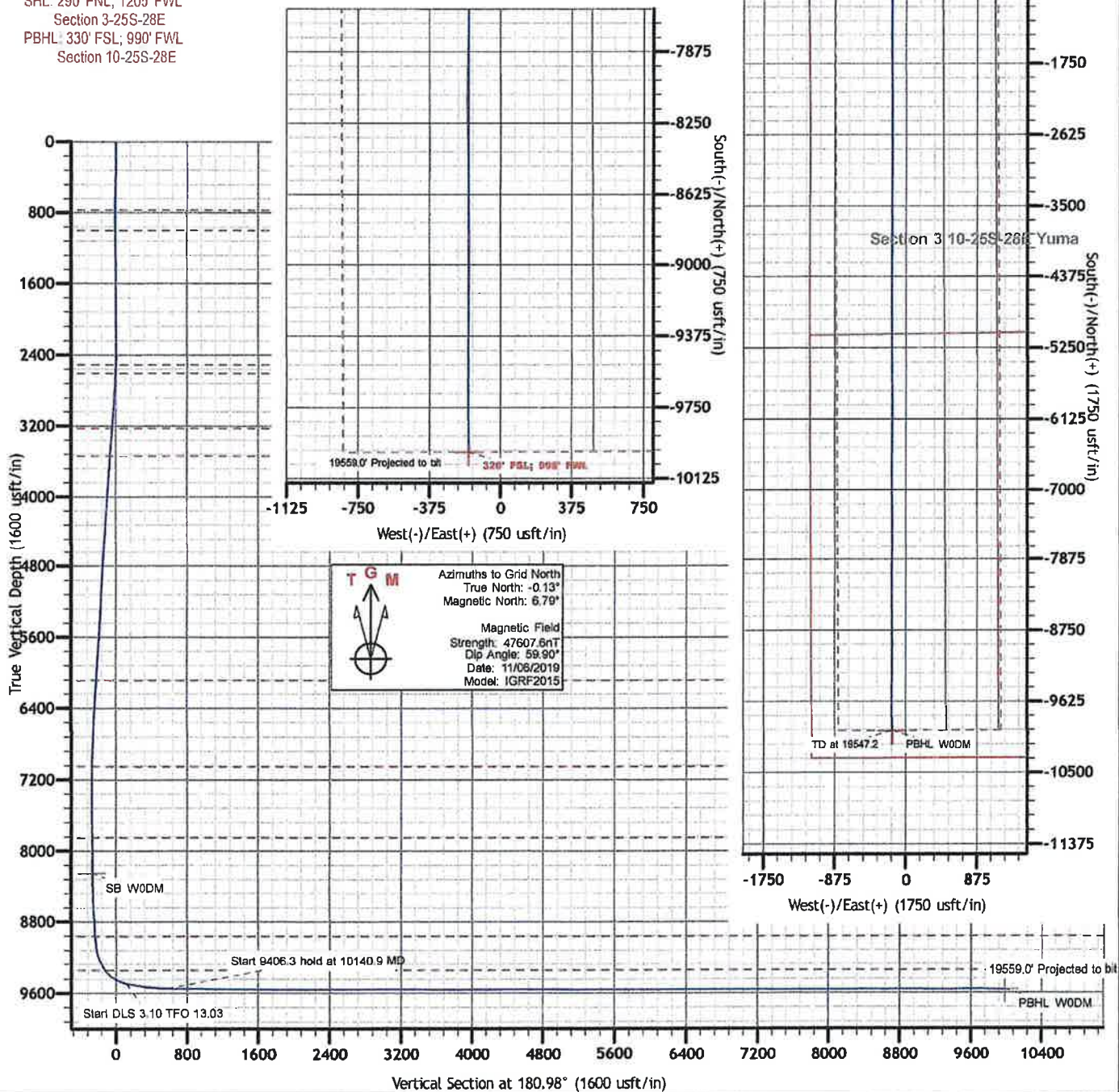
GEODETIC ZONE: New Mexico Eastern Zone
 3002+28 @ 3030.0usft (Patterson 230)
 GROUND ELEVATION: 3002.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	424113.30	619752.30	32° 9' 56.562 N	104° 4' 47.698 W

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	9665.0	75.55	176.69	9490.0	-108.5	-186.7	0.00	0.00	111.7	
2	10140.9	89.94	179.98	9550.0	-579.1	-173.3	3.10	13.03	582.0	
3	19547.2	89.94	179.98	9560.0	-9985.4	-170.3	0.00	0.00	9986.8	PBHL WODM

SHL: 290' FNL; 1205' FWL
 Section 3-25S-28E
 PBHL: 330' FSL; 990' FWL
 Section 10-25S-28E



Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)



January 23, 2020

Mewbourne Oil Company
P.O. Box 5270
Hobbs, NM 88241

Re:

S3, T25S, R28E Eddy, NM
N 32.16571 W -104.07992

CLIENT: Mewbourne Oil Company
WELL: Yum 3/10 W0DM State Com 2H
FIELD: Purple Sage; Wolfcamp (GAS)

RIG: Patterson 230
COUNTY: Eddy
API NO: 30-015-46215
JOB NO: 19MLE0229

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Mohamed Gaber FE	Yum 3/10 W0DM State Com 2H Original Hole	553.00 Ft to 9665.00 Ft	November 1, 2019 to November 9, 2019	TelePacer

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
S3, T25S, R28E Eddy, NM
N 32.16571 W -104.07992

I, Mohamed Gaber certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 01, 2019 through November 09, 2019, conduct or supervise the taking of the TelePacer surveys from a depth of 553.00 feet to a depth of 9665.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company for the Yum 3/10 W0DM State Com 2H Well (Original Hole) API No. 30-015-46215 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Mohamed Gaber
FE



Subscribed and Sworn to before me this 23 day of January (month) 2020 (yr)

My Commission expires:

6/14/23



(signature)

Notary Public

Comanche, Oklahoma

(County State)



Mewbourne Yuma 3_10 W0DM State Com 2H MWD 0ft to 9710ft MD

Survey Geodetic Report

(Def Survey)



Report Date: November 19, 2019 - 03:31 PM
Client: Mewbourne Oil Company
Field: NM Eddy County (NAD 83)
Structure / Slot: Mewbourne Oil Yuma 3_10 W0DM State Com 2H / New Slot
Well: Yuma 3_10 W0DM State Com 2H
Borehole: Yuma 3_10 W0DM State Com 2H
UWI / API#: Unknown / Unknown
Survey Name: Mewbourne Yuma 3_10 W0DM State Com 2H MWD 0ft to 9710ft MD
Survey Date: October 26, 2019
Tort / AHD / DOI / ERD Ratio: 124.600 " / 823.908 ft / 5.021 " / 0.087
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 55.56248", W 104° 4' 47.89813"
Location Grid N/E YX: N 424113.300 RUS, E 619752.300 RUS
CRS Grid Convergence Angle: 0.1349°
Grid Scale Factor: 0.99991613
Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 160.980 " (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3030.000 ft above MSL
Sealed / Ground Elevation: 3002.000 ft above MSL
Magnetic Declination: 7.041°
Total Gravity Field Strength: 998.4574mg (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47832.476 nT
Magnetic Dip Angle: 59.862°
Declination Date: October 26, 2019
Magnetic Declination Model: HDOM 2019
North Reference: Grid North
Grid Convergence Used: 0.1349°
Total Corr Mag North->Grid North: 6.9052°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure (ft)	Closure Azimuth (°)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface Location	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00	0.00	424113.30	619752.30	N 32 9 55.58 W 104 4 47.70	
13-3/8" Casing	100.00	0.37	256.58	100.00	0.08	-0.07	-0.31	0.37	0.32	256.58	424113.23	619751.99	N 32 9 55.58 W 104 4 47.70	
	200.00	0.13	354.26	200.00	0.05	-0.04	-0.64	0.41	0.64	266.89	424113.26	619751.66	N 32 9 55.58 W 104 4 47.71	
	300.00	0.19	08.04	300.00	-0.07	0.08	-0.49	0.24	0.49	279.21	424113.38	619751.81	N 32 9 55.58 W 104 4 47.70	
	400.00	1.76	286.75	396.98	-0.74	0.77	-1.69	1.93	1.86	294.56	424114.07	619750.61	N 32 9 55.57 W 104 4 47.72	
	410.00	0.33	317.12	409.98	-0.83	0.86	-1.85	14.55	2.04	295.04	424114.16	619750.45	N 32 9 55.57 W 104 4 47.72	
	450.00	0.90	315.69	449.98	-1.14	1.17	-2.15	1.43	2.45	298.66	424114.47	619750.15	N 32 9 55.57 W 104 4 47.72	
	553.00	2.38	315.18	552.93	-3.20	3.27	-4.22	1.43	5.34	307.78	424116.57	619748.08	N 32 9 55.59 W 104 4 47.75	
	612.00	2.38	321.73	611.88	-6.00	5.10	-5.84	0.46	7.76	311.13	424118.40	619746.48	N 32 9 55.61 W 104 4 47.77	
	670.00	1.26	32.11	669.86	-4.48	6.59	-6.25	3.95	9.08	316.51	424119.89	619746.05	N 32 9 55.63 W 104 4 47.77	
	734.00	1.83	78.99	733.84	-7.29	7.38	-4.87	2.09	8.84	326.56	424120.88	619747.43	N 32 9 55.64 W 104 4 47.76	
	828.00	2.75	96.20	827.76	-7.28	7.30	-1.17	1.29	7.40	350.87	424120.60	619751.13	N 32 9 55.63 W 104 4 47.71	
	922.00	0.51	169.56	921.72	-6.55	6.53	1.13	2.79	6.63	9.80	424119.83	619753.43	N 32 9 55.63 W 104 4 47.68	
	1016.00	1.15	209.14	1015.71	-5.31	5.30	0.75	0.88	5.35	8.01	424118.60	619753.05	N 32 9 55.61 W 104 4 47.89	
	1110.00	1.35	204.67	1109.69	-3.47	3.47	-0.16	0.23	3.47	357.03	424116.77	619752.12	N 32 9 55.60 W 104 4 47.70	
	1204.00	1.54	209.62	1203.66	-1.34	1.37	-1.27	0.24	1.87	317.10	424114.67	619751.03	N 32 9 55.58 W 104 4 47.71	
	1298.00	1.69	208.74	1297.62	0.99	-0.99	-2.56	0.16	2.73	248.70	424112.35	619749.74	N 32 9 55.55 W 104 4 47.73	
	1393.00	0.36	201.19	1392.61	2.51	-2.45	-3.34	1.40	4.15	233.71	424110.85	619748.96	N 32 9 55.54 W 104 4 47.74	
	1487.00	0.13	326.07	1486.61	2.70	-2.84	-3.51	0.48	4.38	233.03	424110.86	619748.79	N 32 9 55.54 W 104 4 47.74	
	1582.00	0.06	6.44	1581.61	2.56	-2.60	-3.56	0.10	4.35	234.93	424110.80	619748.74	N 32 9 55.54 W 104 4 47.74	
	1676.00	0.80	333.04	1675.60	1.93	-1.87	-3.85	0.80	4.28	244.15	424111.43	619748.45	N 32 9 55.54 W 104 4 47.74	
	1771.00	0.39	172.51	1770.60	1.86	-1.51	-4.11	1.23	4.41	248.88	424111.71	619748.19	N 32 9 55.55 W 104 4 47.75	
	1865.00	0.86	125.35	1864.60	2.37	-2.31	-3.50	0.71	4.19	236.61	424110.99	619748.80	N 32 9 55.54 W 104 4 47.74	
	1960.00	1.55	129.22	1959.57	3.56	-3.53	-1.92	0.73	4.02	208.55	424109.77	619750.38	N 32 9 55.63 W 104 4 47.72	
	2054.00	0.51	87.08	2053.66	4.32	-4.31	-0.52	1.30	4.34	186.86	424108.99	619751.78	N 32 9 55.62 W 104 4 47.70	
	2148.00	0.83	85.00	2147.55	4.22	-4.23	0.56	0.34	4.27	172.24	424109.07	619752.86	N 32 9 55.62 W 104 4 47.69	
	2243.00	0.29	90.54	2242.55	4.15	-4.18	1.50	0.57	4.44	160.20	424108.12	619753.80	N 32 9 55.62 W 104 4 47.68	
	2337.00	0.34	86.01	2336.55	4.12	-4.12	2.02	0.06	4.62	154.10	424109.14	619754.32	N 32 9 55.62 W 104 4 47.67	
	2407.00	0.53	94.10	2406.54	4.12	-4.17	2.55	0.28	4.88	148.54	424109.13	619754.85	N 32 9 55.62 W 104 4 47.67	
9-5/8" Casing	2445.00	0.60	90.77	2444.54	4.13	-4.18	2.92	0.21	5.10	145.03	424109.12	619755.22	N 32 9 55.62 W 104 4 47.68	
	2483.00	0.64	89.46	2482.54	4.13	-4.18	3.12	0.21	5.22	143.28	424109.12	619755.42	N 32 9 55.62 W 104 4 47.66	
	2587.00	2.11	328.80	2586.52	2.68	-2.73	2.70	2.67	3.84	335.33	424109.07	619755.00	N 32 9 55.64 W 104 4 47.67	
	2652.00	3.85	326.48	2651.39	-1.39	1.39	-0.02	1.83	359.12	424114.69	619752.28	N 32 9 55.58 W 104 4 47.70		
	2746.00	4.40	329.89	2745.15	-7.08	7.14	-3.57	0.64	7.99	333.43	424120.44	619748.73	N 32 9 55.63 W 104 4 47.74	
	2841.00	4.45	331.53	2839.86	-13.41	13.54	-7.16	0.14	15.31	332.13	424126.83	619745.14	N 32 9 55.70 W 104 4 47.78	
	2935.00	4.55	330.52	2933.57	-19.80	19.99	-10.73	0.14	22.89	331.77	424133.29	619741.57	N 32 9 55.76 W 104 4 47.82	
	3029.00	4.63	332.95	3027.27	-26.38	26.61	-14.29	0.22	30.21	331.76	424139.91	619738.01	N 32 9 55.83 W 104 4 47.85	
	3124.00	4.59	332.13	3121.96	-33.39	33.39	-17.61	0.24	37.84	331.92	424146.88	619734.49	N 32 9 55.89 W 104 4 47.90	
	3218.00	4.76	332.94	3215.65	-39.85	40.22	-21.28	0.24	45.50	332.11	424153.61	619731.02	N 32 9 55.96 W 104 4 47.94	
	3313.00	4.69	334.88	3310.33	-46.84	47.27	-24.66	0.11	53.32	332.45	424160.57	619727.64	N 32 9 57.03 W 104 4 47.98	
	3407.00	4.72	334.61	3404.01	-53.76	54.25	-27.95	0.04	61.03	332.74	424167.54	619724.35	N 32 9 57.10 W 104 4 48.02	
	3501.00	4.62	334.28	3497.70	-60.61	61.15	-31.25	0.11	68.68	332.93	424174.45	619721.05	N 32 9 57.17 W 104 4 48.06	
	3596.00	4.51	333.80	3592.40	-67.35	67.95	-34.56	0.12	76.23	333.04	424181.24	619717.74	N 32 9 57.24 W 104 4 48.10	
	3690.00	4.45	335.00	3686.11	-73.91	74.57	-37.74	0.12	83.58	333.15	424187.66	619714.57	N 32 9 57.30 W 104 4 48.14	
	3784.00	4.39	335.12	3779.83	-80.43	81.14	-40.79	0.06	90.82	333.31	424194.43	619711.51	N 32 9 57.37 W 104 4 48.17	
	3879.00	4.30	335.33	3874.56	-86.91	87.67	-43.81	0.10	98.01	333.45	424200.97	619708.50	N 32 9 57.43 W 104 4 48.21	
	3973.00	4.26	335.93	3968.30	-93.25	94.06	-46.70	0.06	105.02	333.60	424207.36	619705.60	N 32 9 57.49 W 104 4 48.24	
	4067.00	4.30	334.64	4062.03	-99.57	100.44	-49.64	0.11	112.03	333.70	424213.73	619702.67	N 32 9 57.56 W 104 4 48.27	
	4162.00	4.57	333.71	4156.75	-106.13	107.05	-52.84	0.09	119.38	333.73	424220.34	619699.47	N 32 9 57.62 W 104 4 48.31	
	4256.00	4.63	333.68	4250.45	-112.83	113.82	-56.14	0.08	126.92	333.75	424227.11	619696.16	N 32 9 57.69 W 104 4 48.35	
	4351.00	4.63	334.84	4345.14	-119.71	120.75	-59.44	0.05	134.58	333.79	424234.04	619692.87	N 32 9 57.76 W 104 4 48.39	
	4446.00	4.57	333.57	4439.83	-126.52	127.61	-62.75	0.12	142.20	333.81	424240.90	619689.55	N 32 9 57.83 W 104 4 48.42	
	4540.00	4.55	334.45	4533.53	-133.18	134.32	-66.03	0.08	149.67	333.82	424247.61	619686.28	N 32 9 57.89 W 104 4 48.46	
	4635.00	4.53	318.11	4628.24	-139.30	140.52	-70.16	1.36	157.08	333.47	424253.61	619682.16	N 32 9 57.95 W 104 4 48.51	
	4729.00	4.79	309.58	4721.93	-144.46	145.78	-73.85	0.78	164.24	332.57	424259.65	619678.65	N 32 9 58.01 W 104 4 48.57	
	4823.00	4.92	309.58	4815.59	-149.42	150.84	-77.08	0.15	171.58	331.54	424264.13	619670.53	N 32 9 58.06 W 104 4 48.65	
	4918.00	4.76	308.86	4910.25	-154.38	155.91	-87.99	0.18	179.02	330.55	424269.20	619664.32	N 32 9 58.11 W 104 4 48.72	
	5012.00	4.59	309.78	5003.94	-159.13	160.76	-93.92	0.20	186.18	329.71	424274.05	619658.39	N 32 9 58.16 W 104 4 48.79	
	5106.00	4.35	307.18	5097.66	-163.59	165.32	-99.65	0.33	193.03	328.92	424278.61	619652.66	N 32 9 58.20 W 104 4 48.85	
	5201.00	4.34	304.17	5192.38	-167.69	169.82	-105.49	0.24	199.86	328.11	424282.60	619646.82	N 32 9 58.24 W 104 4 48.92	
	5295.00	4.30	306.86	5286.11	-171.73	173.86	-111.29	0.22	206.26	327.35	424286.95	619641.02	N 32 9 58.28 W 104 4 48.99	
	5390.00	4.35	310.35	5380.84	-176.13	178.16	-116.93	0.28	213.10	326.72	424291.44	619635.38	N 32 9 58.33 W 104 4 49.05	
5484.00	5.59	323.51	5474.49	-182.03	184.15	-122.37	1.78	221.10	326.40	424297.43	619629.94	N 32 9 58.39 W 104 4 49.12		
5578.00	5.18	322.95	5568.07	-189.00	191.22	-127.65	0.65	228.91	326.27	424304.66	619624.66	N 32 9 58.46 W 104 4 49.19		
5673.00	5.17	322.95	5662.86	-195.79	198.05	-132.77	0.07	236.17	323.17	424311.37	619619.55	N 32 9 58.53 W 104 4 49.24		
5767.00	4.98	322.72	5756.33	-202.36	204.75	-137.75	0.22	246.77	326.07	424318.03	619614.57	N 32 9 58.59 W 104 4 49.29		
5861.00	4.73	321.97	5849.88	-210.05	212.22	-142.61	0.27	254.71	325.95	424324.33	619609.71	N 32 9 58.65 W 104 4 49.35		
5955.00	4.84	321.82	5943.65	-214.65	217.22	-147.44	0.30	262.53	325.63	424330.50	619604.87	N 32 9 58.72 W 104 4 49.41		
6049.00	4.58	320.63	6037.33	-220.60	223.23	-152.28	0.12	273.22	325.70	424336.51	619600.04	N 32 9 58.77 W 104 4 49.46		
6143.00	4.56	318.46	6131.03	-226.21	226.93	-157.13	0.27	282.93	325.54	424342.51	619595.21	N 32 9 58.83 W 104 4 49.52		
6237.00	4.35	317.35	6224.75											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure (ft)	Closure Azimuth (°)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8495.00	1.09	195.38	8481.84	-259.29	262.66	-194.46	0.26	326.80	323.49	424375.93	619557.86	N 32 9 59.17 W 104 4 49.95	
	8590.00	2.58	185.70	8575.79	-256.32	259.69	-194.90	1.61	324.60	323.11	424372.97	619557.41	N 32 9 59.14 W 104 4 49.96	
	8685.00	3.25	192.06	8670.67	-251.53	254.92	-195.88	0.79	321.36	322.49	424368.20	619556.64	N 32 9 59.09 W 104 4 49.97	
	8779.00	3.21	198.65	8764.52	-246.40	249.61	-197.08	0.40	318.19	321.73	424363.09	619555.24	N 32 9 59.04 W 104 4 49.98	
	8874.00	3.20	199.98	8858.37	-241.36	244.80	-198.84	0.08	316.38	320.92	424358.08	619553.48	N 32 9 58.99 W 104 4 50.00	
	8968.00	3.16	203.65	8953.23	-236.48	239.96	-200.77	0.22	312.87	320.08	424353.24	619551.55	N 32 9 58.94 W 104 4 50.03	
	8990.00	3.25	204.21	8975.19	-235.36	238.84	-201.27	0.43	312.33	319.88	424352.12	619551.05	N 32 9 58.93 W 104 4 50.03	
	9101.00	6.21	187.32	9085.81	-226.50	230.01	-203.33	2.92	307.00	318.52	424343.29	619548.99	N 32 9 58.94 W 104 4 50.06	
	9148.00	11.90	173.52	9132.21	-219.16	222.57	-203.10	12.87	301.38	317.63	424335.55	619548.21	N 32 9 58.77 W 104 4 50.05	
	9195.00	17.58	168.80	9177.64	-207.41	210.88	-201.18	12.34	291.45	316.35	424324.16	619551.14	N 32 9 58.65 W 104 4 50.03	
	9241.00	21.56	173.81	9229.98	-192.22	195.65	-198.91	9.38	279.01	314.53	424308.94	619553.40	N 32 9 58.50 W 104 4 50.01	
	9288.00	26.54	177.91	9263.89	-173.16	176.56	-197.60	11.17	264.89	311.78	424289.85	619554.72	N 32 9 58.31 W 104 4 49.99	
	9383.00	37.80	179.61	9344.18	-122.69	126.08	-196.62	11.89	233.57	302.67	424239.37	619555.69	N 32 9 57.81 W 104 4 49.98	
	9477.00	51.40	177.91	9410.95	-56.91	60.25	-195.08	14.52	204.17	287.16	424173.55	619557.24	N 32 9 57.16 W 104 4 49.97	
	9571.00	66.24	177.31	9459.48	23.15	-19.87	-191.70	16.80	192.73	284.08	424083.43	619550.61	N 32 9 56.37 W 104 4 49.93	
	9618.00	71.12	176.56	9476.57	66.81	-63.58	-188.36	10.49	199.75	251.44	424049.72	619562.98	N 32 9 55.94 W 104 4 49.90	
	9665.00	75.55	176.69	9490.04	111.89	-108.52	-185.71	9.43	215.95	239.83	424004.79	619565.61	N 32 9 55.49 W 104 4 49.87	
Lat Survey Proj to Bit	9710.00	75.65	176.99	9501.27	155.15	-152.02	-184.19	0.00	238.83	230.47	423961.29	619568.12	N 32 9 55.06 W 104 4 49.85	

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/88.425	17.500	13.375	NAL_NSG+MSHOT-Depth Only	Yuma 3_10 W0DM State Com 2H / Mewbourne Yuma 3_10 W0DM State Com 2H MWD Off to Yuma 3_10 W0DM State Com 2H / Mewbourne Yuma 3_10 W0DM State Com 2H MWD Off to
	1	28.000	28.000	Act Stns	17.500	13.375	NAL_NSG+MSHOT-Depth Only	Yuma 3_10 W0DM State Com 2H / Mewbourne Yuma 3_10 W0DM State Com 2H MWD Off to
	1	28.000	450.000	Act Stns	17.500	13.375	NAL_NSG+MSHOT	Yuma 3_10 W0DM State Com 2H / Mewbourne Yuma 3_10 W0DM State Com 2H MWD Off to
	1	450.000	2445.000	Act Stns	12.250	9.625	NAL_MWD_1.0_DEG	Yuma 3_10 W0DM State Com 2H / Mewbourne Yuma 3_10 W0DM State Com 2H MWD Off to
	1	2445.000	9710.000	Act Stns	8.750	5.500	NAL_MWD_1.0_DEG	Yuma 3_10 W0DM State Com 2H / Mewbourne Yuma 3_10 W0DM State Com 2H MWD Off to