

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-45794		2 Pool Code 27470		3 Pool Name Betty; Bone Spring	
4 Property Code 325169		5 Property Name GLOCK 17/16 B3DA FEDERAL COM			
6 Well Number 2H		7 OGRID NO. 14744			
8 Operator Name MEWBOURNE OIL COMPANY				9 Elevation 3265'	

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
A	18	20S	29E		800	NORTH	600	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
A	16	20S	29E		587	NORTH	107	EAST	EDDY

12 Dedicated Acres 320	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 <u>GEODETTIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION</u> N: 574288.0 - E: 610827.4 LAT: 32.5785698° N LONG: 104.1077358° W <u>BOTTOM HOLE</u> N: 574504.2 - E: 621670.9 LAT: 32.5790957° N LONG: 104.0725312° W <u>CORNER DATA</u> NAD 83 GRID - NM EAST A: FOUND 1" IRON PIPE N: 569795.3 - E: 606355.1 B: FOUND BRASS CAP "1942" N: 572439.7 - E: 606381.9 C: FOUND BRASS CAP "1916" N: 575081.0 - E: 606409.4 D: FOUND BRASS CAP "1916" N: 575085.1 - E: 608784.7 E: FOUND BRASS CAP "1916" N: 575088.6 - E: 611425.3 F: FOUND BRASS CAP "1916" N: 575086.5 - E: 614071.1 G: FOUND BRASS CAP "1916" N: 575085.0 - E: 616714.9 H: FOUND BRASS CAP "1916" N: 575095.2 - E: 619357.5 I: FOUND BRASS CAP "1916" N: 575105.3 - E: 621999.3 J: FOUND BRASS CAP "1916" N: 572462.9 - E: 622006.1 K: FOUND BRASS CAP "1916" N: 569820.2 - E: 622012.4 L: FOUND BRASS CAP "1916" N: 569809.9 - E: 619369.9 M: FOUND BRASS CAP "1916" N: 569798.5 - E: 616727.8 N: FOUND BRASS CAP "1916" N: 569801.9 - E: 614082.2 O: FOUND BRASS CAP "1916" N: 569804.9 - E: 611437.8 P: FOUND BRASS CAP "1916" N: 569800.7 - E: 608796.2 Q: FOUND BRASS CAP "1916" N: 572443.7 - E: 616721.6	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: 9/14/19 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. 4-3-2018 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR
--	---

RRC-Job No: LS1804427

NM OIL CONSERVATION
ARTESIA DISTRICT

Received 04/09/2020
NMOCD District 2

SEP 19 2019

Intent ☐ As Drilled ☒

RECEIVED

API # 30-015-45794		
Operator Name: Mewbourne Oil Company	Property Name: Glock 17/16 B3DA Fed Com	Well Number 2H

Kick Off Point (KOP)

UL A	Section 18	Township 20S	Range 29E	Lot	Feet 774	From N/S N	Feet 416	From E/W E	County Edley
Latitude					Longitude			NAD	

First Take Point (FTP)

UL D	Section 17	Township 20S	Range 29E	Lot	Feet 626	From N/S N	Feet 109	From E/W W	County Edley
Latitude					Longitude			NAD	

Last Take Point (LTP)

UL A	Section 16	Township 20S	Range 29E	Lot	Feet 507	From N/S N	Feet 107	From E/W E	County Edley
Latitude					Longitude			NAD	

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

Is this well an infill well? ☐

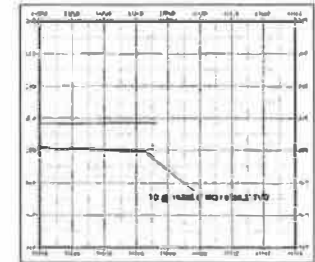
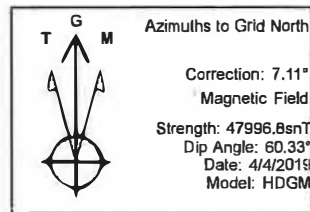
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Glock 17-16 B3DA Fed Com #2H
Eddy County, New Mexico (Nad 83)
Q190585 & WT-190511
Design #2

Company Name: Mewbourne Oil Company
Glock 17-16 B3DA Fed Com #2H
Eddy County, New Mexico (Nad 83)
Rtg: Patterson #250
Created By: Shane Robbins
Date: 01/17/2019



PROJECT OBJECT: Eddy County, New Mexico (Nad 83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DE VARS: Glock 17-16 B3DA Fed Com #2H
WELL ID: 190585
WELL NAME: 190585
WELL TYPE: 190585
WELL STATUS: 190585
WELL LOCATION: 190585
WELL COORDINATES: 190585
WELL DEPTH: 190585
WELL DIAMETER: 190585
WELL PERFORATION: 190585
WELL CEMENT: 190585
WELL CEMENT TYPE: 190585
WELL CEMENT VOLUME: 190585
WELL CEMENT WEIGHT: 190585
WELL CEMENT COST: 190585
WELL CEMENT TYPE: 190585
WELL CEMENT VOLUME: 190585
WELL CEMENT WEIGHT: 190585
WELL CEMENT COST: 190585

WELL ANNOTATIONS									
MD	Inc	Azi	TVD	WOB	WOB	WOB	WOB	WOB	WOB
3025.0	0.00	0.00	3025.0	0.0	0.0	0.0	0.0	0.0	0.0
3155.0	2.50	70.00	3155.0	1.0	2.0	2.0	2.0	2.0	2.0
3300.0	2.50	70.00	3300.0	1.0	2.0	2.0	2.0	2.0	2.0
3450.0	2.50	70.00	3450.0	1.0	2.0	2.0	2.0	2.0	2.0
3600.0	2.50	70.00	3600.0	1.0	2.0	2.0	2.0	2.0	2.0
3750.0	2.50	70.00	3750.0	1.0	2.0	2.0	2.0	2.0	2.0
3900.0	2.50	70.00	3900.0	1.0	2.0	2.0	2.0	2.0	2.0
4050.0	2.50	70.00	4050.0	1.0	2.0	2.0	2.0	2.0	2.0
4200.0	2.50	70.00	4200.0	1.0	2.0	2.0	2.0	2.0	2.0
4350.0	2.50	70.00	4350.0	1.0	2.0	2.0	2.0	2.0	2.0
4500.0	2.50	70.00	4500.0	1.0	2.0	2.0	2.0	2.0	2.0
4650.0	2.50	70.00	4650.0	1.0	2.0	2.0	2.0	2.0	2.0
4800.0	2.50	70.00	4800.0	1.0	2.0	2.0	2.0	2.0	2.0
4950.0	2.50	70.00	4950.0	1.0	2.0	2.0	2.0	2.0	2.0
5100.0	2.50	70.00	5100.0	1.0	2.0	2.0	2.0	2.0	2.0
5250.0	2.50	70.00	5250.0	1.0	2.0	2.0	2.0	2.0	2.0
5400.0	2.50	70.00	5400.0	1.0	2.0	2.0	2.0	2.0	2.0
5550.0	2.50	70.00	5550.0	1.0	2.0	2.0	2.0	2.0	2.0
5700.0	2.50	70.00	5700.0	1.0	2.0	2.0	2.0	2.0	2.0
5850.0	2.50	70.00	5850.0	1.0	2.0	2.0	2.0	2.0	2.0
6000.0	2.50	70.00	6000.0	1.0	2.0	2.0	2.0	2.0	2.0
6150.0	2.50	70.00	6150.0	1.0	2.0	2.0	2.0	2.0	2.0
6300.0	2.50	70.00	6300.0	1.0	2.0	2.0	2.0	2.0	2.0
6450.0	2.50	70.00	6450.0	1.0	2.0	2.0	2.0	2.0	2.0
6600.0	2.50	70.00	6600.0	1.0	2.0	2.0	2.0	2.0	2.0
6750.0	2.50	70.00	6750.0	1.0	2.0	2.0	2.0	2.0	2.0
6900.0	2.50	70.00	6900.0	1.0	2.0	2.0	2.0	2.0	2.0
7050.0	2.50	70.00	7050.0	1.0	2.0	2.0	2.0	2.0	2.0
7200.0	2.50	70.00	7200.0	1.0	2.0	2.0	2.0	2.0	2.0
7350.0	2.50	70.00	7350.0	1.0	2.0	2.0	2.0	2.0	2.0
7500.0	2.50	70.00	7500.0	1.0	2.0	2.0	2.0	2.0	2.0
7650.0	2.50	70.00	7650.0	1.0	2.0	2.0	2.0	2.0	2.0
7800.0	2.50	70.00	7800.0	1.0	2.0	2.0	2.0	2.0	2.0
7950.0	2.50	70.00	7950.0	1.0	2.0	2.0	2.0	2.0	2.0
8100.0	2.50	70.00	8100.0	1.0	2.0	2.0	2.0	2.0	2.0
8250.0	2.50	70.00	8250.0	1.0	2.0	2.0	2.0	2.0	2.0
8400.0	2.50	70.00	8400.0	1.0	2.0	2.0	2.0	2.0	2.0
8550.0	2.50	70.00	8550.0	1.0	2.0	2.0	2.0	2.0	2.0
8700.0	2.50	70.00	8700.0	1.0	2.0	2.0	2.0	2.0	2.0
8850.0	2.50	70.00	8850.0	1.0	2.0	2.0	2.0	2.0	2.0
9000.0	2.50	70.00	9000.0	1.0	2.0	2.0	2.0	2.0	2.0
9150.0	2.50	70.00	9150.0	1.0	2.0	2.0	2.0	2.0	2.0
9300.0	2.50	70.00	9300.0	1.0	2.0	2.0	2.0	2.0	2.0
9450.0	2.50	70.00	9450.0	1.0	2.0	2.0	2.0	2.0	2.0
9600.0	2.50	70.00	9600.0	1.0	2.0	2.0	2.0	2.0	2.0
9750.0	2.50	70.00	9750.0	1.0	2.0	2.0	2.0	2.0	2.0
9900.0	2.50	70.00	9900.0	1.0	2.0	2.0	2.0	2.0	2.0
10050.0	2.50	70.00	10050.0	1.0	2.0	2.0	2.0	2.0	2.0
10200.0	2.50	70.00	10200.0	1.0	2.0	2.0	2.0	2.0	2.0
10350.0	2.50	70.00	10350.0	1.0	2.0	2.0	2.0	2.0	2.0
10500.0	2.50	70.00	10500.0	1.0	2.0	2.0	2.0	2.0	2.0
10650.0	2.50	70.00	10650.0	1.0	2.0	2.0	2.0	2.0	2.0
10800.0	2.50	70.00	10800.0	1.0	2.0	2.0	2.0	2.0	2.0
10950.0	2.50	70.00	10950.0	1.0	2.0	2.0	2.0	2.0	2.0
11100.0	2.50	70.00	11100.0	1.0	2.0	2.0	2.0	2.0	2.0
11250.0	2.50	70.00	11250.0	1.0	2.0	2.0	2.0	2.0	2.0
11400.0	2.50	70.00	11400.0	1.0	2.0	2.0	2.0	2.0	2.0
11550.0	2.50	70.00	11550.0	1.0	2.0	2.0	2.0	2.0	2.0
11700.0	2.50	70.00	11700.0	1.0	2.0	2.0	2.0	2.0	2.0
11850.0	2.50	70.00	11850.0	1.0	2.0	2.0	2.0	2.0	2.0
12000.0	2.50	70.00	12000.0	1.0	2.0	2.0	2.0	2.0	2.0
12150.0	2.50	70.00	12150.0	1.0	2.0	2.0	2.0	2.0	2.0
12300.0	2.50	70.00	12300.0	1.0	2.0	2.0	2.0	2.0	2.0
12450.0	2.50	70.00	12450.0	1.0	2.0	2.0	2.0	2.0	2.0
12600.0	2.50	70.00	12600.0	1.0	2.0	2.0	2.0	2.0	2.0
12750.0	2.50	70.00	12750.0	1.0	2.0	2.0	2.0	2.0	2.0
12900.0	2.50	70.00	12900.0	1.0	2.0	2.0	2.0	2.0	2.0
13050.0	2.50	70.00	13050.0	1.0	2.0	2.0	2.0	2.0	2.0
13200.0	2.50	70.00	13200.0	1.0	2.0	2.0	2.0	2.0	2.0
13350.0	2.50	70.00	13350.0	1.0	2.0	2.0	2.0	2.0	2.0
13500.0	2.50	70.00	13500.0	1.0	2.0	2.0	2.0	2.0	2.0
13650.0	2.50	70.00	13650.0	1.0	2.0	2.0	2.0	2.0	2.0
13800.0	2.50	70.00	13800.0	1.0	2.0	2.0	2.0	2.0	2.0
13950.0	2.50	70.00	13950.0	1.0	2.0	2.0	2.0	2.0	2.0
14100.0	2.50	70.00	14100.0	1.0	2.0	2.0	2.0	2.0	2.0
14250.0	2.50	70.00	14250.0	1.0	2.0	2.0	2.0	2.0	2.0
14400.0	2.50	70.00	14400.0	1.0	2.0	2.0	2.0	2.0	2.0
14550.0	2.50	70.00	14550.0	1.0	2.0	2.0	2.0	2.0	2.0
14700.0	2.50	70.00	14700.0	1.0	2.0	2.0	2.0	2.0	2.0
14850.0	2.50	70.00	14850.0	1.0	2.0	2.0	2.0	2.0	2.0
15000.0	2.50	70.00	15000.0	1.0	2.0	2.0	2.0	2.0	2.0
15150.0	2.50	70.00	15150.0	1.0	2.0	2.0	2.0	2.0	2.0
15300.0	2.50	70.00	15300.0	1.0	2.0	2.0	2.0	2.0	2.0
15450.0	2.50	70.00	15450.0	1.0	2.0	2.0	2.0	2.0	2.0
15600.0	2.50	70.00	15600.0	1.0	2.0	2.0	2.0	2.0	2.0
15750.0	2.50	70.00	15750.0	1.0	2.0	2.0	2.0	2.0	2.0
15900.0	2.50	70.00	15900.0	1.0	2.0	2.0	2.0	2.0	2.0
16050.0	2.50	70.00	16050.0	1.0	2.0	2.0	2.0	2.0	2.0
16200.0	2.50	70.00	16200.0	1.0	2.0	2.0	2.0	2.0	2.0
16350.0	2.50	70.00	16350.0	1.0	2.0	2.0	2.0	2.0	2.0
16500.0	2.50	70.00	16500.0	1.0	2.0	2.0	2.0	2.0	2.0
16650.0	2.50	70.00	16650.0	1.0	2.0	2.0	2.0	2.0	2.0
16800.0	2.50	70.00	16800.0	1.0	2.0	2.0	2.0	2.0	2.0
16950.0	2.50	70.00	16950.0	1.0	2.0	2.0	2.0	2.0	2.0
17100.0	2.50	70.00	17100.0	1.0	2.0	2.0	2.0	2.0	2.0
17250.0	2.50	70.00	17250.0	1.0	2.0	2.0	2.0	2.0	2.0
17400.0	2.50	70.00	17400.0	1.0	2.0	2.0	2.0	2.0	2.0
17550.0	2.50	70.00	17550.0	1.0	2.0	2.0	2.0	2.0	2.0
17700.0	2.50	70.00	17700.0	1.0	2.0	2.0	2.0	2.0	2.0
17850.0	2.50	70.00	17850.0	1.0	2.0	2.0	2.0	2.0	2.0
18000.0	2.50	70.00	18000.0	1.0	2.0	2.0	2.0	2.0	2.0
18150.0	2.50	70.00	18150.0	1.0	2.0	2.0	2.0	2.0	2.0
18300.0	2.50	70.00	18300.0	1.0	2.0	2.0	2.0	2.0	2.0
18450.0	2.50	70.00	18450.0	1.0	2.0	2.0	2.0	2.0	2.0
18600.0	2.50	70.00	18600.0	1.0	2.0	2.0	2.0	2.0	2.0
18750.0	2.50	70.00	18750.0	1.0	2.0	2.0	2.0	2.0	2.0
18900.0	2.50	70.00	18900.0	1.0	2.0	2.0	2.0	2.0	2.0
19050.0	2.50	70.00	19050.0	1.0	2.0	2.0	2.0	2.0	2.0
19200.0	2.50	70.00	19200.0	1.0	2.0	2.0	2.0	2.0	2.0
19350.0	2.50	70.00	19350.0	1.0	2.0	2.0	2.0	2.0	2.0
19500.0	2.50	70.00	19500.0	1.0	2.0	2.0	2.0	2.0	2.0
19650.0	2.50	70.00	19650.0	1.0	2.0	2.0	2.0	2.0	2.0
19800.0	2.50	70.00	19800.0	1.0	2.0	2.0	2.0	2.0	2.0
19950.0	2.50	70.00	19950.0	1.0	2.0	2.0	2.0	2.0	2.0
20100.0	2.50	70.00	20100.0	1.0	2.0	2.0	2.0	2.0	2.0
20250.0	2.50	70.00	20250.0	1.0	2.0	2.0	2.0	2.0	2.0
20400.0	2.50	70.00	20400.0	1.0	2.0	2.0	2.0	2.0	2.0
20550.0	2.50	70.00	20550.0	1.0	2.0	2.0	2.0	2.0	2.0
20700.0	2.50	70.00	20700.0	1.0	2.0	2.0	2.0	2.0	2.0
20850.0	2.50	70.00	20850.0	1.0	2.0	2.0	2.0	2.0	2.0
21000.0	2.50	70.00	21000.0	1.0	2.0	2.0	2.0	2.0	2.0
21150.0	2.50	70.00	21150.0	1.0	2.0	2.0	2.0	2.0	2.0
21300.0	2.50	70.00	21300.0	1.0	2.0	2.0	2.0	2.0	2.0
21450.0	2.50	70.00	21450.0	1.0	2.0	2.0	2.0	2.0	2.0
21600.0	2.50	70.00	21600.0	1.0	2.0	2.0	2.0	2.0	2.0
21750.0	2.50	70.00	21750.0	1.0	2.0	2.0	2.0	2.0	2.0
21900.0	2.50	70.00	21900.0	1.0	2.0	2.0	2.0	2.0	2.0
22050.0	2.50	70.00	22050.0	1.0	2.0	2.0	2.0	2.0	2.0
22200.0	2.50	70.00	22200.0	1.0	2.0	2.0	2.0	2.0	2.0
22350.0	2.50	70.00	22350.0	1.0	2.0	2.0	2.0	2.0	2.0
22500.0	2.50	70.00	2250						



Received 04/09/2020
NMOCD District 2

Mewbourne Oil Company

Eddy County, New Mexico (Nad 83)

Sec 18,T20S,R29E

Glock 17-16 B3DA Fed Com #2H

Wellbore #1

Design: Wellbore #1

QES Survey Report

17 May, 2019





Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, New Mexico (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	Sec 18,T20S,R29E				
Site Position:		Northing:	574,535.70 usft	Latitude:	32° 34' 45.389 N
From:	Map	Easting:	606,553.80 usft	Longitude:	104° 7' 17.790 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	Glock 17-16 B3DA Fed Com #2H				
Well Position	+N/-S	0.0 usft	Northing:	574,288.00 usft	Latitude: 32° 34' 42.851 N
	+E/-W	0.0 usft	Easting:	610,827.40 usft	Longitude: 104° 6' 27.849 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level: 3,265.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/4/2019	7.23	60.33	47,996.80000000

Design	Wellbore #1				
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	88.88	

Survey Program	Date	5/17/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	2,975.0	SFC Surveys (Wellbore #1)	OWSG (Rev2) MWD	OWSG MWD - Standard	
3,098.0	19,705.0	QES MWD Surveys (Wellbore #1)	OWSG (Rev2) MWD	OWSG MWD - Standard	

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	0.25	186.33	100.0	-0.2	0.0	0.0	0.25	0.25	0.00	
200.0	0.31	185.12	200.0	-0.7	-0.1	-0.1	0.06	0.06	-1.21	
300.0	0.92	202.74	300.0	-1.7	-0.4	-0.4	0.63	0.61	17.62	
400.0	1.91	187.59	400.0	-4.1	-0.9	-1.0	1.05	0.99	-15.15	
500.0	2.92	174.61	499.9	-8.3	-0.9	-1.1	1.14	1.01	-12.98	
600.0	3.94	152.31	599.7	-13.9	0.9	0.6	1.66	1.02	-22.30	
700.0	6.33	147.63	699.3	-21.6	5.5	5.0	2.42	2.39	-4.68	
800.0	8.82	144.56	798.4	-32.5	12.9	12.2	2.52	2.49	-3.07	
900.0	10.20	143.58	897.0	-45.8	22.6	21.7	1.39	1.38	-0.98	



Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	10.11	143.32	995.5	-60.0	33.1	31.9	0.10	-0.09	-0.26
1,100.0	8.85	143.11	1,094.1	-73.2	42.9	41.5	1.26	-1.26	-0.21
1,200.0	7.95	142.61	1,193.0	-84.8	51.7	50.1	0.90	-0.90	-0.50
1,300.0	7.16	144.54	1,292.2	-95.4	59.6	57.7	0.83	-0.79	1.93
1,400.0	6.58	146.29	1,391.4	-105.3	66.4	64.3	0.62	-0.58	1.75
1,500.0	6.26	147.29	1,490.8	-114.6	72.5	70.2	0.34	-0.32	1.00
1,600.0	5.18	148.42	1,590.3	-123.0	77.8	75.4	1.09	-1.08	1.13
1,700.0	4.82	148.87	1,689.9	-130.5	82.3	79.8	0.36	-0.36	0.45
1,800.0	4.60	144.39	1,789.6	-137.3	86.8	84.1	0.43	-0.22	-4.48
1,900.0	4.18	134.45	1,889.3	-143.2	91.8	89.0	0.87	-0.42	-9.94
2,000.0	3.78	143.46	1,989.1	-148.4	96.3	93.4	0.74	-0.40	9.01
2,100.0	3.04	154.88	2,088.9	-153.4	99.4	96.4	1.00	-0.74	11.42
2,200.0	2.89	154.91	2,188.7	-158.1	101.6	98.5	0.15	-0.15	0.03
2,300.0	2.42	154.82	2,288.6	-162.3	103.6	100.4	0.47	-0.47	-0.09
2,400.0	1.81	152.65	2,388.6	-165.6	105.2	102.0	0.62	-0.61	-2.17
2,500.0	1.72	160.01	2,488.5	-168.4	106.4	103.1	0.24	-0.09	7.36
2,600.0	1.87	166.79	2,588.5	-171.4	107.3	104.0	0.26	0.15	6.78
2,700.0	1.63	165.18	2,688.4	-174.4	108.1	104.6	0.24	-0.24	-1.61
2,800.0	1.69	167.81	2,788.4	-177.2	108.7	105.3	0.10	0.06	2.63
2,900.0	1.26	170.86	2,888.4	-179.7	109.2	105.7	0.44	-0.43	3.05
Gyro Tie In @ 2975.0' MD / 2963.3' TVD									
2,975.0	1.26	157.85	2,963.3	-181.3	109.7	106.1	0.38	0.00	-17.35
3,098.0	1.10	150.20	3,086.3	-183.6	110.8	107.2	0.18	-0.13	-6.22
3,284.0	4.80	7.50	3,272.1	-177.4	112.7	109.2	3.07	1.99	-76.72
3,471.0	4.00	10.40	3,458.6	-163.2	114.9	111.7	0.44	-0.43	1.55
3,657.0	4.20	10.80	3,644.1	-150.2	117.3	114.4	0.11	0.11	0.22
3,844.0	4.50	8.20	3,830.6	-136.2	119.7	117.0	0.19	0.16	-1.39
4,032.0	4.60	7.50	4,018.0	-121.4	121.7	119.3	0.06	0.05	-0.37
4,218.0	4.70	9.80	4,203.3	-106.5	124.0	121.9	0.11	0.05	1.24
4,404.0	5.10	9.60	4,388.7	-90.8	126.6	124.8	0.22	0.22	-0.11
4,591.0	4.00	32.30	4,575.1	-77.1	131.5	130.0	1.12	-0.59	12.14
4,777.0	4.50	30.70	4,760.6	-65.4	138.7	137.4	0.28	0.27	-0.86
4,963.0	4.50	31.50	4,946.0	-52.9	146.2	145.2	0.03	0.00	0.43
5,149.0	4.00	18.00	5,131.5	-40.5	152.1	151.2	0.60	-0.27	-7.26
5,335.0	4.00	15.70	5,317.0	-28.1	155.8	155.2	0.09	0.00	-1.24
5,521.0	2.00	13.10	5,502.8	-18.7	158.3	157.9	1.08	-1.08	-1.40
5,707.0	1.90	359.50	5,688.7	-12.4	159.0	158.7	0.25	-0.05	-7.31
5,893.0	1.10	351.10	5,874.6	-7.6	158.7	158.5	0.44	-0.43	-4.52
6,076.0	2.40	44.50	6,057.5	-3.1	161.1	161.0	1.07	0.71	29.18
6,262.0	2.50	33.10	6,243.4	3.1	166.1	166.1	0.27	0.05	-6.13
6,448.0	2.40	36.60	6,429.2	9.6	170.6	170.8	0.10	-0.05	1.88
6,634.0	2.90	41.40	6,615.0	16.3	176.0	176.3	0.29	0.27	2.58
6,821.0	1.90	52.80	6,801.8	21.7	181.6	182.0	0.59	-0.53	6.10



Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,007.0	1.40	18.90	6,987.8	25.7	184.8	185.3	0.58	-0.27	-18.23
7,193.0	1.90	10.80	7,173.7	30.9	186.1	186.7	0.30	0.27	-4.35
7,378.0	3.90	19.60	7,358.4	39.8	188.8	189.6	1.10	1.08	4.76
7,564.0	2.80	23.50	7,544.1	49.9	192.8	193.7	0.60	-0.59	2.10
7,749.0	4.30	44.40	7,728.8	59.0	199.4	200.5	1.06	0.81	11.30
7,935.0	4.00	54.90	7,914.3	67.8	209.6	210.9	0.44	-0.16	5.65
8,120.0	3.90	32.10	8,098.8	76.8	218.2	219.7	0.85	-0.05	-12.32
8,306.0	4.70	15.00	8,284.3	89.5	223.6	225.3	0.81	0.43	-9.19
8,492.0	4.00	9.20	8,469.8	103.3	226.6	228.5	0.44	-0.38	-3.12
8,543.0	4.10	12.00	8,520.7	106.8	227.2	229.3	0.43	0.20	5.49
8,573.0	4.30	13.10	8,550.6	109.0	227.7	229.8	0.72	0.67	3.67
8,604.0	4.50	31.50	8,581.5	111.1	228.6	230.7	4.58	0.65	59.35
8,635.0	6.60	60.40	8,612.4	113.0	230.8	233.0	11.07	6.77	93.23
8,665.0	11.00	73.90	8,642.0	114.7	235.0	237.2	16.10	14.67	45.00
8,697.0	14.30	83.80	8,673.2	116.0	241.9	244.1	12.30	10.31	30.94
8,728.0	16.60	89.20	8,703.1	116.4	250.1	252.4	8.74	7.42	17.42
8,759.0	20.90	90.10	8,732.4	116.5	260.1	262.3	13.90	13.87	2.90
8,789.0	24.80	89.40	8,760.1	116.6	271.8	274.0	13.03	13.00	-2.33
8,820.0	28.50	88.80	8,787.8	116.8	285.7	287.9	11.97	11.94	-1.94
8,851.0	32.80	87.60	8,814.4	117.3	301.4	303.7	14.01	13.87	-3.87
8,882.0	36.50	87.40	8,839.9	118.1	319.1	321.3	11.94	11.94	-0.65
8,913.0	39.80	88.20	8,864.3	118.8	338.2	340.4	10.76	10.65	2.58
8,944.0	43.90	88.30	8,887.4	119.4	358.9	361.1	13.23	13.23	0.32
8,975.0	47.80	86.00	8,909.0	120.5	381.1	383.3	13.66	12.58	-7.42
9,006.0	51.80	84.60	8,929.0	122.5	404.7	407.0	13.36	12.90	-4.52
9,037.0	56.50	84.40	8,947.2	124.9	429.7	432.0	15.17	15.16	-0.65
9,068.0	61.30	83.80	8,963.2	127.6	456.1	458.5	15.57	15.48	-1.94
9,099.0	65.40	82.90	8,977.1	130.8	483.6	486.0	13.48	13.23	-2.90
9,130.0	68.30	80.90	8,989.3	134.9	511.8	514.3	11.08	9.35	-6.45
9,161.0	69.50	79.70	9,000.4	139.7	540.3	542.9	5.29	3.87	-3.87
9,192.0	70.70	77.80	9,011.0	145.4	568.9	571.6	6.94	3.87	-6.13
9,223.0	72.80	77.60	9,020.7	151.7	597.6	600.5	6.80	6.77	-0.65
LL Crossed @ 9224.9' MD / 9021.2' TVD									
9,224.9	72.98	77.58	9,021.2	152.1	599.4	602.3	9.72	9.68	-0.98
9,254.0	75.80	77.30	9,029.1	158.2	626.8	629.7	9.72	9.68	-0.97
9,285.0	78.20	77.60	9,036.0	164.7	656.2	659.3	7.80	7.74	0.97
9,311.0	81.00	78.70	9,040.7	170.0	681.3	684.5	11.55	10.77	4.23
100' HL Crossed @ 9329.7' MD / 9043.4' TVD									
9,329.7	82.34	79.71	9,043.4	173.5	699.4	702.7	8.94	7.17	5.39
9,418.0	88.70	84.40	9,050.3	185.6	786.6	790.0	8.94	7.20	5.31
9,449.0	89.80	87.10	9,050.7	187.9	817.5	821.0	9.40	3.55	8.71
9,480.0	91.80	87.60	9,050.3	189.3	848.4	852.0	6.65	6.45	1.61
9,511.0	91.80	88.00	9,049.3	190.5	879.4	882.9	1.29	0.00	1.29
9,604.0	89.90	88.00	9,048.0	193.8	972.3	975.9	2.04	-2.04	0.00



Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,697.0	88.90	87.80	9,048.9	197.2	1,065.3	1,068.9	1.10	-1.08	-0.22
9,790.0	90.00	88.80	9,049.8	199.9	1,158.2	1,161.9	1.60	1.18	1.08
9,883.0	88.80	88.80	9,050.8	201.9	1,251.2	1,254.9	1.29	-1.29	0.00
9,977.0	88.40	88.70	9,053.1	203.9	1,345.1	1,348.9	0.44	-0.43	-0.11
10,070.0	88.90	91.00	9,055.3	204.2	1,438.1	1,441.8	2.53	0.54	2.47
10,163.0	90.80	93.40	9,055.5	200.6	1,531.0	1,534.6	3.29	2.04	2.58
10,257.0	91.30	93.10	9,053.8	195.3	1,624.8	1,628.4	0.62	0.53	-0.32
10,350.0	89.90	93.60	9,052.8	189.8	1,717.7	1,721.1	1.60	-1.51	0.54
10,443.0	87.20	90.60	9,055.2	186.4	1,810.6	1,813.9	4.34	-2.90	-3.23
10,536.0	87.50	89.40	9,059.5	186.4	1,903.5	1,906.7	1.33	0.32	-1.29
10,629.0	92.10	90.10	9,059.8	186.8	1,996.4	1,999.7	5.00	4.95	0.75
10,723.0	90.80	89.70	9,057.4	187.0	2,090.4	2,093.7	1.45	-1.38	-0.43
10,816.0	87.90	88.00	9,058.5	188.9	2,183.4	2,186.6	3.61	-3.12	-1.83
10,909.0	90.20	88.50	9,060.0	191.7	2,276.3	2,279.6	2.53	2.47	0.54
11,002.0	90.00	88.00	9,059.9	194.5	2,369.3	2,372.6	0.58	-0.22	-0.54
11,095.0	88.90	87.60	9,060.8	198.1	2,462.2	2,465.6	1.26	-1.18	-0.43
11,187.0	88.80	88.70	9,062.6	201.1	2,554.1	2,557.6	1.20	-0.11	1.20
11,280.0	90.90	90.10	9,062.8	202.1	2,647.1	2,650.6	2.71	2.26	1.51
11,373.0	91.00	90.30	9,061.3	201.7	2,740.1	2,743.5	0.24	0.11	0.22
11,466.0	90.00	90.80	9,060.5	200.8	2,833.1	2,836.5	1.20	-1.08	0.54
11,559.0	91.40	91.80	9,059.4	198.7	2,926.1	2,929.4	1.85	1.51	1.08
11,651.0	91.20	89.70	9,057.3	197.5	3,018.0	3,021.3	2.29	-0.22	-2.28
11,745.0	90.80	89.00	9,055.6	198.6	3,112.0	3,115.3	0.86	-0.43	-0.74
11,838.0	89.30	88.50	9,055.5	200.6	3,205.0	3,208.3	1.70	-1.61	-0.54
11,931.0	90.50	89.00	9,055.7	202.6	3,297.9	3,301.3	1.40	1.29	0.54
12,024.0	91.40	89.60	9,054.2	203.8	3,390.9	3,394.3	1.16	0.97	0.65
12,117.0	90.00	89.00	9,053.0	204.9	3,483.9	3,487.2	1.64	-1.51	-0.65
12,210.0	88.40	88.80	9,054.3	206.7	3,576.9	3,580.2	1.73	-1.72	-0.22
12,303.0	89.70	89.20	9,055.9	208.3	3,669.8	3,673.2	1.46	1.40	0.43
12,396.0	86.90	88.80	9,058.6	210.0	3,762.8	3,766.2	3.04	-3.01	-0.43
12,489.0	88.30	89.20	9,062.5	211.6	3,855.7	3,859.1	1.57	1.51	0.43
12,582.0	89.00	89.90	9,064.7	212.3	3,948.7	3,952.1	1.06	0.75	0.75
12,675.0	91.20	90.80	9,064.5	211.7	4,041.6	4,045.0	2.56	2.37	0.97
12,768.0	88.90	90.80	9,064.5	210.4	4,134.6	4,138.0	2.47	-2.47	0.00
12,861.0	88.50	90.80	9,066.6	209.1	4,227.6	4,230.9	0.43	-0.43	0.00
12,954.0	88.90	90.40	9,068.7	208.2	4,320.6	4,323.8	0.61	0.43	-0.43
13,048.0	89.80	90.80	9,069.8	207.2	4,414.6	4,417.8	1.05	0.96	0.43
13,140.0	89.20	90.80	9,070.6	205.9	4,506.5	4,509.7	0.65	-0.65	0.00
13,233.0	89.40	91.10	9,071.7	204.4	4,599.5	4,602.6	0.39	0.22	0.32
13,326.0	89.40	91.50	9,072.7	202.2	4,692.5	4,695.6	0.43	0.00	0.43
13,419.0	88.80	91.00	9,074.1	200.2	4,785.5	4,788.5	0.84	-0.65	-0.54
13,512.0	88.00	91.10	9,076.7	198.5	4,878.4	4,881.4	0.87	-0.86	0.11
13,605.0	90.40	91.80	9,078.0	196.2	4,971.4	4,974.2	2.69	2.58	0.75



Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-18 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18, T20S, R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,699.0	88.90	91.70	9,078.6	193.3	5,065.3	5,068.1	1.60	-1.60	-0.11
13,792.0	91.10	90.30	9,078.6	191.7	5,158.3	5,161.1	2.80	2.37	-1.51
13,884.0	90.40	90.10	9,077.4	191.3	5,250.3	5,253.0	0.79	-0.76	-0.22
13,978.0	90.60	90.10	9,076.6	191.2	5,344.3	5,347.0	0.21	0.21	0.00
14,070.0	90.50	89.60	9,075.7	191.4	5,436.3	5,439.0	0.55	-0.11	-0.54
14,163.0	88.90	89.20	9,076.2	192.4	5,529.3	5,532.0	1.77	-1.72	-0.43
14,257.0	89.30	89.20	9,077.7	193.7	5,623.2	5,626.0	0.43	0.43	0.00
14,349.0	90.00	89.00	9,078.2	195.2	5,715.2	5,718.0	0.79	0.76	-0.22
14,443.0	88.40	88.30	9,079.5	197.4	5,809.2	5,811.9	1.86	-1.70	-0.74
14,537.0	88.50	88.00	9,082.1	200.4	5,903.1	5,905.9	0.34	0.11	-0.32
14,629.0	89.20	88.20	9,083.9	203.4	5,995.0	5,997.9	0.79	0.76	0.22
14,722.0	88.10	87.60	9,086.1	206.9	6,087.9	6,090.8	1.35	-1.18	-0.65
14,816.0	90.00	88.30	9,087.7	210.2	6,181.9	6,184.8	2.15	2.02	0.74
14,909.0	89.10	88.20	9,088.4	213.1	6,274.8	6,277.8	0.97	-0.97	-0.11
15,002.0	88.80	87.60	9,090.1	216.5	6,367.7	6,370.8	0.72	-0.32	-0.65
15,096.0	89.00	88.30	9,091.9	219.8	6,461.7	6,464.7	0.77	0.21	0.74
15,190.0	90.20	91.00	9,092.6	220.4	6,555.7	6,558.7	3.14	1.28	2.87
15,283.0	87.60	90.60	9,094.3	219.1	6,648.6	6,651.6	2.83	-2.80	-0.43
15,376.0	89.20	91.50	9,096.9	217.4	6,741.6	6,744.5	1.97	1.72	0.97
15,469.0	91.30	93.10	9,096.5	213.7	6,834.5	6,837.3	2.84	2.26	1.72
15,562.0	92.10	92.70	9,093.8	209.0	6,927.3	6,930.1	0.96	0.86	-0.43
15,655.0	91.50	92.90	9,090.9	204.4	7,020.2	7,022.8	0.68	-0.65	0.22
15,748.0	90.80	93.10	9,089.0	199.6	7,113.0	7,115.6	0.78	-0.75	0.22
15,841.0	90.00	92.20	9,088.3	195.3	7,205.9	7,208.3	1.29	-0.86	-0.97
15,934.0	89.90	91.10	9,088.4	192.6	7,298.9	7,301.2	1.19	-0.11	-1.18
16,028.0	91.70	90.40	9,087.1	191.3	7,392.8	7,395.2	2.05	1.91	-0.74
16,121.0	91.00	89.60	9,084.9	191.3	7,485.8	7,488.1	1.14	-0.75	-0.86
16,213.0	90.40	89.00	9,083.8	192.5	7,577.8	7,580.1	0.92	-0.65	-0.65
16,306.0	88.50	88.20	9,084.7	194.7	7,670.8	7,673.1	2.22	-2.04	-0.86
16,400.0	88.20	88.20	9,087.4	197.7	7,764.7	7,767.1	0.32	-0.32	0.00
16,492.0	88.60	88.00	9,090.0	200.7	7,856.6	7,859.0	0.49	0.43	-0.22
16,586.0	88.50	88.00	9,092.3	204.0	7,950.5	7,953.0	0.11	-0.11	0.00
16,678.0	89.90	88.30	9,093.6	207.0	8,042.4	8,045.0	1.56	1.52	0.33
16,773.0	89.70	87.80	9,094.0	210.2	8,137.4	8,139.9	0.57	-0.21	-0.53
16,865.0	89.90	87.60	9,094.3	213.9	8,229.3	8,231.9	0.31	0.22	-0.22
16,958.0	87.80	87.60	9,096.1	217.8	8,322.2	8,324.9	2.26	-2.26	0.00
17,051.0	87.50	87.80	9,100.0	221.5	8,415.1	8,417.8	0.39	-0.32	0.22
17,145.0	87.80	89.60	9,103.8	223.7	8,509.0	8,511.7	1.94	0.32	1.91
17,237.0	86.50	89.90	9,108.4	224.1	8,600.8	8,603.6	1.45	-1.41	0.33
17,329.0	87.20	88.50	9,113.4	225.4	8,692.7	8,695.4	1.70	0.76	-1.52
17,447.0	88.10	88.80	9,118.3	228.1	8,810.6	8,813.3	0.80	0.76	0.25
17,539.0	87.60	88.50	9,121.7	230.3	8,902.5	8,905.3	0.63	-0.54	-0.33
17,632.0	90.30	88.50	9,123.4	232.7	8,995.4	8,998.2	2.90	2.90	0.00



Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,725.0	91.40	88.00	9,122.1	235.6	9,088.4	9,091.2	1.30	1.18	-0.54
17,817.0	91.60	89.90	9,119.7	237.3	9,180.3	9,183.2	2.08	0.22	2.07
17,910.0	87.10	88.70	9,120.7	238.4	9,273.3	9,276.1	5.01	-4.84	-1.29
18,002.0	86.10	88.80	9,126.2	240.4	9,365.1	9,368.0	1.09	-1.09	0.11
18,096.0	86.40	89.60	9,132.3	241.7	9,458.9	9,461.8	0.91	0.32	0.85
18,127.0	89.20	89.40	9,133.5	242.0	9,489.8	9,492.8	9.06	9.03	-0.65
18,158.0	91.40	88.80	9,133.3	242.5	9,520.8	9,523.8	7.36	7.10	-1.94
18,189.0	92.00	88.80	9,132.4	243.1	9,551.8	9,554.7	1.94	1.94	0.00
18,220.0	92.50	88.80	9,131.2	243.8	9,582.8	9,585.7	1.61	1.61	0.00
18,251.0	94.00	89.70	9,129.4	244.2	9,613.7	9,616.7	5.64	4.84	2.90
18,283.0	94.00	89.70	9,127.2	244.3	9,645.6	9,648.6	0.00	0.00	0.00
18,314.0	94.20	90.10	9,125.0	244.4	9,676.6	9,679.5	1.44	0.65	1.29
18,345.0	94.30	91.30	9,122.7	244.0	9,707.5	9,710.4	3.87	0.32	3.87
18,376.0	94.50	91.70	9,120.3	243.2	9,738.4	9,741.3	1.44	0.65	1.29
18,408.0	94.70	91.80	9,117.8	242.2	9,770.3	9,773.1	0.70	0.63	0.31
18,439.0	93.90	92.00	9,115.4	241.2	9,801.2	9,804.0	2.66	-2.58	0.65
18,470.0	94.10	92.00	9,113.3	240.1	9,832.1	9,834.9	0.65	0.65	0.00
18,502.0	94.20	91.80	9,110.9	239.1	9,864.0	9,866.7	0.70	0.31	-0.63
18,533.0	93.60	91.80	9,108.8	238.1	9,894.9	9,897.6	1.94	-1.94	0.00
18,564.0	91.40	92.40	9,107.5	237.0	9,925.8	9,928.6	7.36	-7.10	1.94
18,595.0	91.40	92.50	9,106.7	235.6	9,956.8	9,959.5	0.32	0.00	0.32
18,627.0	89.70	91.70	9,106.4	234.5	9,988.8	9,991.4	5.87	-5.31	-2.50
18,658.0	87.60	91.00	9,107.2	233.7	10,019.7	10,022.4	7.14	-6.77	-2.26
18,690.0	86.80	91.00	9,108.7	233.2	10,051.7	10,054.3	2.50	-2.50	0.00
18,720.0	86.90	91.10	9,110.4	232.6	10,081.6	10,084.3	0.47	0.33	0.33
18,751.0	89.30	91.50	9,111.4	231.9	10,112.6	10,115.2	7.85	7.74	1.29
18,783.0	90.00	92.00	9,111.6	230.9	10,144.6	10,147.2	2.69	2.19	1.56
18,813.0	90.20	91.80	9,111.5	229.9	10,174.6	10,177.1	0.94	0.67	-0.67
18,844.0	90.10	92.00	9,111.5	228.9	10,205.6	10,208.1	0.72	-0.32	0.65
18,875.0	90.60	92.00	9,111.3	227.8	10,236.5	10,239.0	1.61	1.61	0.00
18,906.0	90.80	92.00	9,110.9	226.8	10,267.5	10,270.0	0.65	0.65	0.00
18,938.0	91.00	91.30	9,110.4	225.8	10,299.5	10,302.0	2.27	0.63	-2.19
18,969.0	90.60	92.00	9,110.0	224.9	10,330.5	10,332.9	2.60	-1.29	2.26
19,001.0	90.40	92.20	9,109.7	223.8	10,362.5	10,364.9	0.88	-0.63	0.63
19,032.0	90.40	92.00	9,109.5	222.6	10,393.4	10,395.8	0.65	0.00	-0.65
19,063.0	90.50	92.00	9,109.2	221.6	10,424.4	10,426.8	0.32	0.32	0.00
19,094.0	91.20	92.00	9,108.8	220.5	10,455.4	10,457.7	2.26	2.26	0.00
19,126.0	91.70	92.40	9,107.9	219.2	10,487.4	10,489.7	2.00	1.56	1.25
19,157.0	91.80	92.40	9,107.0	217.9	10,518.3	10,520.6	0.32	0.32	0.00
19,188.0	91.90	92.20	9,106.0	216.7	10,549.3	10,551.5	0.72	0.32	-0.65
19,219.0	91.30	92.20	9,105.1	215.5	10,580.3	10,582.4	1.94	-1.94	0.00
19,251.0	90.20	91.80	9,104.7	214.4	10,612.2	10,614.4	3.66	-3.44	-1.25
19,282.0	90.40	92.00	9,104.5	213.4	10,643.2	10,645.4	0.91	0.65	0.65
19,313.0	90.10	91.70	9,104.4	212.4	10,674.2	10,676.3	1.37	-0.97	-0.97



Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,344.0	90.00	91.70	9,104.4	211.4	10,705.2	10,707.3	0.32	-0.32	0.00
19,375.0	90.00	91.80	9,104.4	210.5	10,736.2	10,738.2	0.32	0.00	0.32
19,406.0	90.10	91.70	9,104.4	209.6	10,767.2	10,769.2	0.46	0.32	-0.32
19,438.0	90.00	91.80	9,104.3	208.6	10,799.1	10,801.2	0.44	-0.31	0.31
19,469.0	90.00	92.20	9,104.3	207.5	10,830.1	10,832.1	1.29	0.00	1.29
19,500.0	89.90	92.00	9,104.4	206.4	10,861.1	10,863.1	0.72	-0.32	-0.65
19,531.0	89.30	92.00	9,104.6	205.3	10,892.1	10,894.0	1.94	-1.94	0.00
19,562.0	89.30	92.20	9,105.0	204.1	10,923.1	10,925.0	0.65	0.00	0.65
19,594.0	89.40	92.00	9,105.3	203.0	10,955.0	10,956.9	0.70	0.31	-0.63
19,635.0	89.50	92.20	9,105.7	201.5	10,996.0	10,997.8	0.55	0.24	0.49
TD @ 19705.0' MD / 9106.3' TVD									
19,705.0	89.50	92.20	9,106.3	198.8	11,066.0	11,067.7	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,975.0	2,963.3	-181.3	109.7	Gyro Tie In @ 2975.0' MD / 2963.3' TVD
9,224.9	9,021.2	152.1	599.4	LL Crossed @ 9224.9'MD / 9021.2' TVD
9,329.7	9,043.4	173.5	699.4	100' HL Crossed @ 9329.7'MD / 9043.4' TVD
19,705.0	9,106.3	198.8	11,066.0	TD @ 19705.0' MD / 9106.3' TVD

Checked By: _____ Approved By: _____ Date: _____

Received 04/09/2020
NMOCD District 2



Mewbourne Oil Company

Eddy County, New Mexico (Nad 83)

Sec 18,T20S,R29E

Glock 17-16 B3DA Fed Com #2H

Wellbore #1

Design: Wellbore #1

QES Survey Certification Report

17 May, 2019



Quintana Energy Services

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
Mewbourne Oil Company	WT-190511	5/24/2019

Lease	Well Name	County & State
SEC 18, T20S, R29E	Glock 17-16 B3DA Fed Com #2H	Eddy County, NM

API No.	Survey Depth Range	Survey Type
30/015-45794	2975 feet to 19705 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
	Craig Dent

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Christopher Hughes

MWD Compliance Manager

Quintana Energy Services

**Christopher
Hughes**

Digitally signed by Christopher
Hughes
DN: cn=Christopher Hughes, o=QES,
ou=compliance,
email=chrish@qeslp.com, c=US
Date: 2019.05.24 10:49:29 -05'00'



QES Survey Certification Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, New Mexico (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		Sec 18,T20S,R29E			
Site Position:		Northing:	574,535.70 usft	Latitude:	32° 34' 45.389 N
From:	Map	Easting:	606,553.80 usft	Longitude:	104° 7' 17.790 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.11 °

Well	Glock 17-16 B3DA Fed Com #2H					
Well Position	+N-S	0.0 usft	Northing:	574,288.00 usft	Latitude:	32° 34' 42.851 N
	+E-W	0.0 usft	Easting:	610,827.40 usft	Longitude:	104° 6' 27.849 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,265.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/4/2019	7.23	60.33	47,996.80000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	88.88	

Survey Program	Date 5/17/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	2,975.0	SFC Surveys (Wellbore #1)	OWSG (Rev2) MWD	OWSG MWD - Standard
3,098.0	19,705.0	QES MWD Surveys (Wellbore #1)	OWSG (Rev2) MWD	OWSG MWD - Standard

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
2,975.0	1.26	157.85	2,963.3	-181.3	109.7	211.9	148.83	
Gyro Tie In @ 2975.0' MD / 2963.3' TVD								
3,098.0	1.10	150.20	3,086.3	-183.6	110.8	214.4	148.89	
3,284.0	4.80	7.50	3,272.1	-177.4	112.7	210.2	147.58	
3,471.0	4.00	10.40	3,458.6	-163.2	114.9	199.6	144.86	
3,657.0	4.20	10.80	3,644.1	-150.2	117.3	190.6	142.00	
3,844.0	4.50	8.20	3,830.6	-136.2	119.7	181.3	138.70	
4,032.0	4.60	7.50	4,018.0	-121.4	121.7	171.9	134.93	
4,218.0	4.70	9.80	4,203.3	-106.5	124.0	163.4	130.67	
4,404.0	5.10	9.60	4,388.7	-90.8	126.6	155.8	125.65	
4,591.0	4.00	32.30	4,575.1	-77.1	131.5	152.5	120.39	



QES Survey Certification Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18, T20S, R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
4,777.0	4.50	30.70	4,760.6	-65.4	138.7	153.3	115.23
4,963.0	4.50	31.50	4,946.0	-52.9	146.2	155.5	109.88
5,149.0	4.00	18.00	5,131.5	-40.5	152.1	157.3	104.91
5,335.0	4.00	15.70	5,317.0	-28.1	155.8	158.3	100.21
5,521.0	2.00	13.10	5,502.8	-18.7	158.3	159.4	96.72
5,707.0	1.90	359.50	5,688.7	-12.4	159.0	159.5	94.46
5,893.0	1.10	351.10	5,874.6	-7.6	158.7	158.9	92.73
6,076.0	2.40	44.50	6,057.5	-3.1	161.1	161.2	91.10
6,262.0	2.50	33.10	6,243.4	3.1	166.1	166.1	88.94
6,448.0	2.40	36.60	6,429.2	9.6	170.6	170.9	86.78
6,634.0	2.90	41.40	6,615.0	16.3	176.0	176.8	84.72
6,821.0	1.90	52.80	6,801.8	21.7	181.6	182.9	83.19
7,007.0	1.40	18.90	6,987.8	25.7	184.8	186.6	82.08
7,193.0	1.90	10.80	7,173.7	30.9	186.1	188.7	80.58
7,378.0	3.90	19.60	7,358.4	39.8	188.8	193.0	78.09
7,564.0	2.80	23.50	7,544.1	49.9	192.8	199.1	75.47
7,749.0	4.30	44.40	7,728.8	59.0	199.4	208.0	73.51
7,935.0	4.00	54.90	7,914.3	67.8	209.6	220.3	72.09
8,120.0	3.90	32.10	8,098.8	76.8	218.2	231.3	70.61
8,306.0	4.70	15.00	8,284.3	89.5	223.6	240.8	68.18
8,492.0	4.00	9.20	8,469.8	103.3	226.6	249.0	65.49
8,543.0	4.10	12.00	8,520.7	106.8	227.2	251.1	64.82
8,573.0	4.30	13.10	8,550.6	109.0	227.7	252.4	64.43
8,604.0	4.50	31.50	8,581.5	111.1	228.6	254.2	64.07
8,635.0	6.60	60.40	8,612.4	113.0	230.8	257.0	63.90
8,665.0	11.00	73.90	8,642.0	114.7	235.0	261.5	63.99
8,697.0	14.30	83.80	8,673.2	116.0	241.9	268.3	64.39
8,728.0	16.60	89.20	8,703.1	116.4	250.1	275.9	65.04
8,759.0	20.90	90.10	8,732.4	116.5	260.1	285.0	65.87
8,789.0	24.80	89.40	8,760.1	116.6	271.8	295.7	66.79
8,820.0	28.50	88.80	8,787.8	116.8	285.7	308.6	67.77
8,851.0	32.80	87.60	8,814.4	117.3	301.4	323.5	68.74
8,882.0	36.50	87.40	8,839.9	118.1	319.1	340.2	69.69
8,913.0	39.80	88.20	8,864.3	118.8	338.2	358.4	70.65
8,944.0	43.90	88.30	8,887.4	119.4	358.9	378.2	71.59
8,975.0	47.80	86.00	8,909.0	120.5	381.1	399.7	72.45
9,006.0	51.80	84.60	8,929.0	122.5	404.7	422.8	73.16
9,037.0	56.50	84.40	8,947.2	124.9	429.7	447.4	73.79
9,068.0	61.30	83.80	8,963.2	127.6	456.1	473.6	74.37
9,099.0	65.40	82.90	8,977.1	130.8	483.6	501.0	74.86
9,130.0	68.30	80.90	8,989.3	134.9	511.8	529.2	75.24
9,161.0	69.50	79.70	9,000.4	139.7	540.3	558.1	75.50
9,192.0	70.70	77.80	9,011.0	145.4	568.9	587.2	75.66
9,223.0	72.80	77.60	9,020.7	151.7	597.6	616.6	75.76
9,254.0	75.80	77.30	9,029.1	158.2	626.8	646.4	75.84



QES Survey Certification Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico (Nad 83)
Site: Sec 18, T20S, R29E
Well: Glock 17-16 B3DA Fed Com #2H
Wellbore: Wellbore #1
Design: Wellbore #1

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

Well Glock 17-16 B3DA Fed Com #2H
WELL @ 3292.0usft (Patterson #250)
WELL @ 3292.0usft (Patterson #250)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,285.0	78.20	77.60	9,036.0	164.7	656.2	676.6	75.91
9,311.0	81.00	78.70	9,040.7	170.0	681.3	702.2	75.99
9,418.0	88.70	84.40	9,050.3	185.6	786.6	808.2	76.72
9,449.0	89.80	87.10	9,050.7	187.9	817.5	838.8	77.06
9,480.0	91.80	87.60	9,050.3	189.3	848.4	869.3	77.42
9,511.0	91.80	88.00	9,049.3	190.5	879.4	899.8	77.78
9,604.0	89.90	88.00	9,048.0	193.8	972.3	991.4	78.73
9,697.0	88.90	87.80	9,048.9	197.2	1,065.3	1,083.3	79.51
9,790.0	90.00	88.80	9,049.8	199.9	1,158.2	1,175.3	80.21
9,883.0	88.80	88.80	9,050.8	201.9	1,251.2	1,267.4	80.83
9,977.0	88.40	88.70	9,053.1	203.9	1,345.1	1,360.5	81.38
10,070.0	88.90	91.00	9,055.3	204.2	1,438.1	1,452.5	81.92
10,163.0	90.80	93.40	9,055.5	200.6	1,531.0	1,544.1	82.54
10,257.0	91.30	93.10	9,053.8	195.3	1,624.8	1,636.5	83.15
10,350.0	89.90	93.60	9,052.8	189.8	1,717.7	1,728.1	83.69
10,443.0	87.20	90.60	9,055.2	186.4	1,810.6	1,820.1	84.12
10,536.0	87.50	89.40	9,059.5	186.4	1,903.5	1,912.6	84.41
10,629.0	92.10	90.10	9,059.8	186.8	1,996.4	2,005.2	84.65
10,723.0	90.80	89.70	9,057.4	187.0	2,090.4	2,098.8	84.89
10,816.0	87.90	88.00	9,058.5	188.9	2,183.4	2,191.5	85.06
10,909.0	90.20	88.50	9,060.0	191.7	2,276.3	2,284.4	85.19
11,002.0	90.00	88.00	9,059.9	194.5	2,369.3	2,377.2	85.31
11,095.0	88.90	87.60	9,060.8	198.1	2,462.2	2,470.1	85.40
11,187.0	88.80	88.70	9,062.6	201.1	2,554.1	2,562.0	85.50
11,280.0	90.90	90.10	9,062.8	202.1	2,647.1	2,654.8	85.64
11,373.0	91.00	90.30	9,061.3	201.7	2,740.1	2,747.5	85.79
11,466.0	90.00	90.80	9,060.5	200.8	2,833.1	2,840.2	85.95
11,559.0	91.40	91.80	9,059.4	198.7	2,926.1	2,932.8	86.11
11,651.0	91.20	89.70	9,057.3	197.5	3,018.0	3,024.5	86.26
11,745.0	90.80	89.00	9,055.6	198.6	3,112.0	3,118.3	86.35
11,838.0	89.30	88.50	9,055.5	200.6	3,205.0	3,211.2	86.42
11,931.0	90.50	89.00	9,055.7	202.6	3,297.9	3,304.2	86.48
12,024.0	91.40	89.60	9,054.2	203.8	3,390.9	3,397.0	86.56
12,117.0	90.00	89.00	9,053.0	204.9	3,483.9	3,489.9	86.63
12,210.0	88.40	88.80	9,054.3	206.7	3,576.9	3,582.8	86.69
12,303.0	89.70	89.20	9,055.9	208.3	3,669.8	3,675.8	86.75
12,396.0	86.90	88.80	9,058.6	210.0	3,762.8	3,768.6	86.81
12,489.0	88.30	89.20	9,062.5	211.6	3,855.7	3,861.5	86.86
12,582.0	89.00	89.90	9,064.7	212.3	3,948.7	3,954.4	86.92
12,675.0	91.20	90.80	9,064.6	211.7	4,041.6	4,047.2	87.00
12,768.0	88.90	90.80	9,064.5	210.4	4,134.6	4,140.0	87.09
12,861.0	88.50	90.80	9,066.6	209.1	4,227.6	4,232.8	87.17
12,954.0	88.90	90.40	9,068.7	208.2	4,320.6	4,325.6	87.24
13,048.0	89.80	90.80	9,069.8	207.2	4,414.6	4,419.4	87.31



QES Survey Certification Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-16 B3DA Fed Com #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3292.0usft (Patterson #250)
Site:	Sec 18,T20S,R29E	MD Reference:	WELL @ 3292.0usft (Patterson #250)
Well:	Glock 17-16 B3DA Fed Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,140.0	89.20	90.80	9,070.6	205.9	4,506.5	4,511.2	87.38
13,233.0	89.40	91.10	9,071.7	204.4	4,599.5	4,604.1	87.46
13,326.0	89.40	91.50	9,072.7	202.2	4,692.5	4,696.9	87.53
13,419.0	88.80	91.00	9,074.1	200.2	4,785.5	4,789.6	87.60
13,512.0	88.00	91.10	9,076.7	198.5	4,878.4	4,882.4	87.67
13,605.0	90.40	91.80	9,078.0	196.2	4,971.4	4,975.2	87.74
13,699.0	88.90	91.70	9,078.6	193.3	5,065.3	5,069.0	87.81
13,792.0	91.10	90.30	9,078.6	191.7	5,158.3	5,161.9	87.87
13,884.0	90.40	90.10	9,077.4	191.3	5,250.3	5,253.8	87.91
13,978.0	90.60	90.10	9,076.6	191.2	5,344.3	5,347.7	87.95
14,070.0	90.50	89.60	9,075.7	191.4	5,436.3	5,439.6	87.98
14,163.0	88.90	89.20	9,076.2	192.4	5,529.3	5,532.6	88.01
14,257.0	89.30	89.20	9,077.7	193.7	5,623.2	5,626.6	88.03
14,349.0	90.00	89.00	9,078.2	195.2	5,715.2	5,718.6	88.04
14,443.0	88.40	88.30	9,079.5	197.4	5,809.2	5,812.5	88.05
14,537.0	88.50	88.00	9,082.1	200.4	5,903.1	5,906.5	88.06
14,629.0	89.20	88.20	9,083.9	203.4	5,995.0	5,998.5	88.06
14,722.0	88.10	87.60	9,086.1	206.9	6,087.9	6,091.5	88.05
14,816.0	90.00	88.30	9,087.7	210.2	6,181.9	6,185.4	88.05
14,909.0	89.10	88.20	9,088.4	213.1	6,274.8	6,278.4	88.06
15,002.0	88.80	87.60	9,090.1	216.5	6,367.7	6,371.4	88.05
15,096.0	89.00	88.30	9,091.9	219.8	6,461.7	6,465.4	88.05
15,190.0	90.20	91.00	9,092.6	220.4	6,555.7	6,559.4	88.07
15,283.0	87.60	90.60	9,094.3	219.1	6,648.6	6,652.2	88.11
15,376.0	89.20	91.50	9,096.9	217.4	6,741.6	6,745.1	88.15
15,469.0	91.30	93.10	9,096.5	213.7	6,834.5	6,837.8	88.21
15,562.0	92.10	92.70	9,093.8	209.0	6,927.3	6,930.5	88.27
15,655.0	91.50	92.90	9,090.9	204.4	7,020.2	7,023.1	88.33
15,748.0	90.80	93.10	9,089.0	199.6	7,113.0	7,115.8	88.39
15,841.0	90.00	92.20	9,088.3	195.3	7,205.9	7,208.6	88.45
15,934.0	89.90	91.10	9,088.4	192.6	7,298.9	7,301.4	88.49
16,028.0	91.70	90.40	9,087.1	191.3	7,392.8	7,395.3	88.52
16,121.0	91.00	89.60	9,084.9	191.3	7,485.8	7,488.3	88.54
16,213.0	90.40	89.00	9,083.8	192.5	7,577.8	7,580.2	88.55
16,306.0	88.50	88.20	9,084.7	194.7	7,670.8	7,673.2	88.55
16,400.0	88.20	88.20	9,087.4	197.7	7,764.7	7,767.2	88.54
16,492.0	88.60	88.00	9,090.0	200.7	7,856.6	7,859.2	88.54
16,586.0	88.50	88.00	9,092.3	204.0	7,950.5	7,953.1	88.53
16,678.0	89.90	88.30	9,093.6	207.0	8,042.4	8,045.1	88.53
16,773.0	89.70	87.80	9,094.0	210.2	8,137.4	8,140.1	88.52
16,865.0	89.90	87.60	9,094.3	213.9	8,229.3	8,232.1	88.51
16,958.0	87.80	87.60	9,096.1	217.8	8,322.2	8,325.1	88.50
17,051.0	87.50	87.80	9,100.0	221.5	8,415.1	8,418.0	88.49
17,145.0	87.80	89.60	9,103.8	223.7	8,509.0	8,511.9	88.49



QES Survey Certification Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico (Nad 83)
Site: Sec 18, T20S, R29E
Well: Glock 17-16 B3DA Fed Com #2H
Wellbore: Wellbore #1
Design: Wellbore #1

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

Well Glock 17-16 B3DA Fed Com #2H
WELL @ 3292.0usft (Patterson #250)
WELL @ 3292.0usft (Patterson #250)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,237.0	86.50	89.90	9,108.4	224.1	8,600.8	8,603.8	88.51
17,329.0	87.20	88.50	9,113.4	225.4	8,692.7	8,695.6	88.51
17,447.0	88.10	88.80	9,118.3	228.1	8,810.6	8,813.5	88.52
17,539.0	87.60	88.50	9,121.7	230.3	8,902.5	8,905.4	88.52
17,632.0	90.30	88.50	9,123.4	232.7	8,995.4	8,998.4	88.52
17,725.0	91.40	88.00	9,122.1	235.6	9,088.4	9,091.4	88.52
17,817.0	91.60	89.90	9,119.7	237.3	9,180.3	9,183.4	88.52
17,910.0	87.10	88.70	9,120.7	238.4	9,273.3	9,276.3	88.53
18,002.0	86.10	88.80	9,126.2	240.4	9,365.1	9,368.2	88.53
18,096.0	86.40	89.60	9,132.3	241.7	9,458.9	9,462.0	88.54
18,127.0	89.20	89.40	9,133.5	242.0	9,489.8	9,492.9	88.54
18,158.0	91.40	88.80	9,133.3	242.5	9,520.8	9,523.9	88.54
18,189.0	92.00	88.80	9,132.4	243.1	9,551.8	9,554.9	88.54
18,220.0	92.50	88.80	9,131.2	243.8	9,582.8	9,585.9	88.54
18,251.0	94.00	89.70	9,129.4	244.2	9,613.7	9,616.8	88.55
18,283.0	94.00	89.70	9,127.2	244.3	9,645.6	9,648.7	88.55
18,314.0	94.20	90.10	9,125.0	244.4	9,676.6	9,679.7	88.55
18,345.0	94.30	91.30	9,122.7	244.0	9,707.5	9,710.5	88.56
18,376.0	94.50	91.70	9,120.3	243.2	9,738.4	9,741.4	88.57
18,408.0	94.70	91.80	9,117.8	242.2	9,770.3	9,773.3	88.58
18,439.0	93.90	92.00	9,115.4	241.2	9,801.2	9,804.1	88.59
18,470.0	94.10	92.00	9,113.3	240.1	9,832.1	9,835.0	88.60
18,502.0	94.20	91.80	9,110.9	239.1	9,864.0	9,866.9	88.61
18,533.0	93.60	91.80	9,108.8	238.1	9,894.9	9,897.7	88.62
18,564.0	91.40	92.40	9,107.5	237.0	9,925.8	9,928.6	88.63
18,595.0	91.40	92.50	9,106.7	235.6	9,956.8	9,959.6	88.64
18,627.0	89.70	91.70	9,106.4	234.5	9,988.8	9,991.5	88.66
18,658.0	87.60	91.00	9,107.2	233.7	10,019.7	10,022.5	88.66
18,690.0	86.80	91.00	9,108.7	233.2	10,051.7	10,054.4	88.67
18,720.0	86.90	91.10	9,110.4	232.6	10,081.6	10,084.3	88.68
18,751.0	89.30	91.50	9,111.4	231.9	10,112.6	10,115.3	88.69
18,783.0	90.00	92.00	9,111.6	230.9	10,144.6	10,147.2	88.70
18,813.0	90.20	91.80	9,111.5	229.9	10,174.6	10,177.2	88.71
18,844.0	90.10	92.00	9,111.5	228.9	10,205.6	10,208.1	88.72
18,875.0	90.60	92.00	9,111.3	227.8	10,236.5	10,239.1	88.72
18,906.0	90.80	92.00	9,110.9	226.8	10,267.5	10,270.0	88.73
18,938.0	91.00	91.30	9,110.4	225.8	10,299.5	10,302.0	88.74
18,969.0	90.60	92.00	9,110.0	224.9	10,330.5	10,332.9	88.75
19,001.0	90.40	92.20	9,109.7	223.8	10,362.5	10,364.9	88.76
19,032.0	90.40	92.00	9,109.5	222.6	10,393.4	10,395.8	88.77
19,063.0	90.50	92.00	9,109.2	221.6	10,424.4	10,426.8	88.78
19,094.0	91.20	92.00	9,108.8	220.5	10,455.4	10,457.7	88.79
19,126.0	91.70	92.40	9,107.9	219.2	10,487.4	10,489.7	88.80
19,157.0	91.80	92.40	9,107.0	217.9	10,518.3	10,520.6	88.81



QES Survey Certification Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico (Nad 83)
Site: Sec 18.T20S,R29E
Well: Glock 17-16 B3DA Fed Com #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Coordinate Reference: Well Glock 17-16 B3DA Fed Com #2H
TVD Reference: WELL @ 3292.0usft (Patterson #250)
MD Reference: WELL @ 3292.0usft (Patterson #250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
19,188.0	91.90	92.20	9,106.0	216.7	10,549.3	10,551.5	88.82
19,219.0	91.30	92.20	9,105.1	215.5	10,580.3	10,582.4	88.83
19,251.0	90.20	91.80	9,104.7	214.4	10,612.2	10,614.4	88.84
19,282.0	90.40	92.00	9,104.5	213.4	10,643.2	10,645.4	88.85
19,313.0	90.10	91.70	9,104.4	212.4	10,674.2	10,676.3	88.86
19,344.0	90.00	91.70	9,104.4	211.4	10,705.2	10,707.3	88.87
19,375.0	90.00	91.80	9,104.4	210.5	10,736.2	10,738.2	88.88
19,406.0	90.10	91.70	9,104.4	209.6	10,767.2	10,769.2	88.89
19,438.0	90.00	91.80	9,104.3	208.6	10,799.1	10,801.2	88.89
19,469.0	90.00	92.20	9,104.3	207.5	10,830.1	10,832.1	88.90
19,500.0	89.90	92.00	9,104.4	206.4	10,861.1	10,863.1	88.91
19,531.0	89.30	92.00	9,104.6	205.3	10,892.1	10,894.0	88.92
19,562.0	89.30	92.20	9,105.0	204.1	10,923.1	10,925.0	88.93
19,594.0	89.40	92.00	9,105.3	203.0	10,955.0	10,956.9	88.94
19,635.0	89.50	92.20	9,105.7	201.5	10,996.0	10,997.9	88.95
19,705.0	89.50	92.20	9,106.3	198.8	11,066.0	11,067.7	88.97
TD @ 19705.0' MD / 9106.3' TVD							

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,975.0	2,963.3	-181.3	109.7	Gyro Tie In @ 2975.0' MD / 2963.3' TVD
19,705.0	9,106.3	198.8	11,066.0	TD @ 19705.0' MD / 9106.3' TVD

Checked By: _____

Approved By: _____

Date: _____