



PHOENIX
TECHNOLOGY SERVICES USA INC.

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

Celebrating 20 Years of Focused Solutions

December 21, 2018

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Mewbourne Oil
Virgo 24 23 B2HE Federal Com No. 001H
Eddy County, NM
API #30-015-44655
Job No. 64036

RECEIVED
DEC 31 2018
DISTRICT II-ARTESIA O.C.D.

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Noe Garza	001H	0	534	12/19/18	12/19/18	Gyro

A certified plat on which the bottom hole location is oriented both to the 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.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



Company: Mewbourne

Job #: 64036

Well Name: Virgo24 23 B2HE Federal Com No.001H

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-44655

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-12-19	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-12-19	534	0.23	349.65

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.23

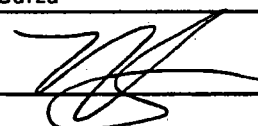
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 12-19-18

Print Name: Noe Garza

Signature: 



Company: Mewbourne
 Well: Virgo 24 23 B2HE Federal Com No. 001H
 Location: Eddy Co., New Mexico
 Rig: Patterson 250

Job Number: 64036
 Grid Corr.: -0.23
 Lat: 32.73
 Long: -103.92

Date: 12-19-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 29
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10					FIELD COPY, NON-DEFINITIVE								
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.44	266.13	100	100.00	-0.03	0.03 S	0.38 W	0.38	266.13	0.44	0.44	266.13
	200.00	0.20	74.77	100	200.00	-0.01	0.01 S	0.60 W	0.60	269.43	0.64	-0.24	-191.36
	300.00	0.39	39.84	100	300.00	0.30	0.30 N	0.21 W	0.37	324.94	0.25	0.19	-34.93
	400.00	0.17	189.65	100	400.00	0.42	0.42 N	0.02 W	0.42	357.50	0.54	-0.22	149.81
	500.00	0.12	338.97	100	500.00	0.37	0.37 N	0.08 W	0.38	347.63	0.28	-0.05	149.32
	534.00	0.23	349.65	34	534.00	0.47	0.47 N	0.11 W	0.48	347.28	0.34	0.32	31.41

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
ARTESIA DISTRICT
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

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44655	² Pool Code 56405	³ Pool Name SHUGART NORTH BONE SPRING
⁴ Property Code 326691	⁵ Property Name VIRGO 24/23 B2HE FED COM	
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 1H
		⁹ Elevation 3644'

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
H	24	18S	30E		1850	NORTH	185	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
E	23	18S	30E		1850	NORTH	330	WEST	EDDY

¹² Dedicated Acres 320	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.

¹⁶ GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N: 631339.7 - E: 628025.5 LAT: 32.73495665° N LONG: 103.91698701° W BOTTOM HOLE N: 631306.1 - E: 617986.4 LAT: 32.73496847° N LONG: 103.94963468° W GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 631402.9 - E: 669204.5 LAT: 32.73507516° N LONG: 103.91749301° W BOTTOM HOLE N: 631369.3 - E: 659165.4 LAT: 32.73508686° N LONG: 103.95014122° W	CORNER DATA NAD 27 GRID - NM EAST A: FOUND BRASS CAP "1916" N: 627876.9 - E: 617667.5 B: FOUND BRASS CAP "1916" N: 633154.6 - E: 617650.5 C: FOUND BRASS CAP "1916" N: 633171.6 - E: 622927.3 D: FOUND BRASS CAP "1916" N: 633180.5 - E: 625565.8 E: FOUND BRASS CAP "1916" N: 633189.8 - E: 628204.6 F: FOUND BRASS CAP "1916" N: 630550.9 - E: 628213.1 G: FOUND BRASS CAP "1916" N: 627911.6 - E: 628222.0 H: FOUND BRASS CAP "1916" N: 627894.3 - E: 625578.5 I: FOUND BRASS CAP "1916" N: 627892.9 - E: 622944.3 J: FOUND BRASS CAP "1916" N: 627885.3 - E: 620305.6 K: FOUND BRASS CAP "1916" N: 630533.0 - E: 622935.8	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 _____ Date 7-26-17 BRADLEY BISHOP Printed Name BBISHOP@MEWBOURNE.COM 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. 3-04-2018 Date of Survey Signature and Seal of Professional Surveyor _____ 19880 Certificate Number		ROBERT M. HOWETT NEW MEXICO 19880 PROFESSIONAL SURVEYOR

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1602071

RW 2-2-18