



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

August 6, 2018

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

RECEIVED

AUG 16 2018

DISTRICT II-ARTESIA O.C.D.

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Mewbourne Oil
South Loving 2/11 WOCF State Com 1H
Eddy County, NM
API #30-015-44967
Job No. 63220

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	
Andy Askew	1H	0	454	8/5/18	8/5/18	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



PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne

Job #: 63220

Well Name: South Loving 2/11 WOCF State Com 1H

County/State: Eddy/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-44967

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 (°)
2018-08-05	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-08-05	454	0.3	134.17

Projected TD Survey

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

Grid Correction
-0.09

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:

8/6/18

Print Name: Andy Askew

Signature:



Company: Mewbourne
 Well: South Loving 2/11 WOCF State Com 1H
 Location: Eddy Co., NM
 Rig: Patterson 217

Job Number: 63220
 Grid Corr.: -0.09
 Lat: 32.25
 Long: -104.16

Date: 08-05-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 28.5
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (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	0.40	159.00	100	100.00	-0.33	0.33 S	0.13 E	0.35	159.00	0.40	0.40	159.00
	200.00	0.14	1.44	100	200.00	-0.53	0.53 S	0.25 E	0.59	154.44	0.53	-0.26	-157.56
	300.00	0.65	70.12	100	300.00	-0.21	0.21 S	0.79 E	0.82	105.20	0.61	0.51	68.68
	400.00	0.22	106.98	100	399.99	-0.08	0.08 S	1.51 E	1.51	92.96	0.49	-0.43	36.86
	454.00	0.30	134.17	54	453.99	-0.21	0.21 S	1.71 E	1.72	96.90	0.27	0.15	50.35

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

MAY 15 2018

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44967	² Pool Code 98220	³ Pool Name PURPLE SAGE WOLFCAMP
⁴ Property Code 321428	⁵ Property Name SOUTH LOVING 2/11 WOCF STATE	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 1H
		⁹ Elevation 3152'

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
3	2	24S	27E		360	NORTH	2030	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
F	11	24S	27E		2310	NORTH	2240	WEST	EDDY

¹² Dedicated Acres 480.67	¹³ Joint or Infill 480.76	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 83 GRID - NM EAST SURFACE LOCATION N: 455853.7 - E: 593932.0 LAT: 32.2531025° N LONG: 104.1631982° W BOTTOM HOLE N: 448580.9 - E: 594086.8 LAT: 32.2331100° N LONG: 104.1627348° W CORNER DATA NAD 83 GRID - NM EAST A: FOUND 1/2" REBAR N: 445546.7 - E: 591844.4 B: CALCULATED CORNER N: 450865.5 - E: 591849.8 C: CALCULATED CORNER N: 456198.4 - E: 591906.3 D: CALCULATED CORNER N: 456238.0 - E: 597199.4 E: FOUND NAIL N: 453579.3 - E: 597180.1 F: FOUND ALUMINUM CAP "DAN REDDY" N: 450924.1 - E: 597126.2 G: FOUND ALUMINUM CAP "ILLEGIBLE" N: 448267.6 - E: 597132.2 H: FOUND ALUMINUM CAP N: 445611.1 - E: 597138.3	N 89°34'15" E 5294.49' 2030' LOT 4 LOT 3 LOT 2 LOT 1 S. L. 360' 2310' 2240' 11 B. L. N 00°36'26" E 5334.37' N 00°03'30" E 5320.11' N 00°25'04" E 2659.36' N 01°09'41" E 2656.34' N 00°07'41" W 2657.18' N 00°07'54" W 2657.12' S 89°18'09" W 5295.49'		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. <i>Bradley Bishop</i> 5-15-18 Signature Date 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. 4-18-18 Date of Survey Signature and Seal of Professional Surveyor ROBERT M. HOWETT 19880 19680 Certificate Number
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RRC-Job No.: LS1804447