



TECHNOLOGY SERVICES USA INC.

Celebrating 20 Years of Focused Solutions

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

July 12, 2018

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

RECEIVED

JUL 23 2018

DISTRICT II-ARTESIA O.C.D.

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Mewbourne Oil
South Loving 2/11 WODE State Com 1H
Eddy County, NM
API #30-015-45019
Job No. 63066

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	420	7/11/18	7/11/18	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

JUL 23 2018

DISTRICT II-ARTESIA O.C.D.

SURVEY CERTIFICATION FORM

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

Company: MewbourneJob #: 63066Well Name: South Loving 2/11 WODE State Com 1HCounty/State: Eddy/ NMSurvey Instrument Type: North Seek Rate GyroAPI # 30-015-45019**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 (°)
2018-07-11	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-07-11	420	0.66	286.25

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:

7/11/18Print Name: Andy Askew

Signature:

A handwritten signature in black ink, appearing to read 'Andy Askew'.

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DISTRICT II-ARTESIA O.C.D.



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

Job Number: 63066
Grid Corr.: -0.09
Lat: 32.25
Long: -104.16

Date: 07-11-18
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	0.04	228.93	100	100.00	-0.02	0.02 S	0.03 W	0.03	228.93	0.04	0.04	228.93
	200.00	0.02	28.40	100	200.00	-0.03	0.03 S	0.04 W	0.05	235.46	0.06	-0.02	-200.53
	300.00	0.19	350.33	100	300.00	0.15	0.15 N	0.06 W	0.16	336.69	0.17	0.17	321.93
	400.00	0.40	316.77	100	400.00	0.57	0.57 N	0.33 W	0.66	329.70	0.26	0.21	-33.56
	420.00	0.66	286.25	20	420.00	0.65	0.65 N	0.49 W	0.81	323.00	1.88	1.30	-152.60

**NM OIL CONSERVATION
ARTESIA DISTRICT**

JUN 05 2018 Form C-102
Revised August 1, 2011

Submit one copy to appropriate
RECEIVED District Office

☐ AMENDED REPORT

District I
1623 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45019	² Pool Code 98220	³ Pool Name Purple Sage, 4x11 comp (gas)
⁴ Property Code 321484	⁵ Property Name SOUTH LOVING 2/11 WODE STATE COM	
⁷ GRID 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		205	NORTH	1330	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
11	11	24S	27E		2310	NORTH	450	WEST	EDDY

¹² Dedicated Acres	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.

GEOGRAPHIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 455848.4 - E: 593232.5 LAT: 32.2530911° N LONG: 104.1854611° W BOTTOM HOLE N: 448581.1 - E: 592297.3 LAT: 32.2330830° N LONG: 104.1885223° 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: 597128.2 G: FOUND ALUMINUM CAP "ILLEGIBLE" N: 448267.6 - E: 597132.2 H: FOUND ALUMINUM CAP N: 445611.1 - E: 597138.3	"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 in, undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well as this location pertains to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order hereinafter created by the division. Signature: <i>[Signature]</i> Date: 6/5/18 Printed Name: M. Young E-mail Address: M.Young@Mewbourne.com
	"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. 5-22-18 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> 19880 Certificate Number

RRC-Job No.: LS1804448