



PHOENIX

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

December 20, 2017

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

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 16 2018

Dear District 2 - Artesia

RECEIVED

Attention: Regulatory Department

Re: Mewbourne Oil
Annabelle 18 13 W2P0 Fed Com 1H
Eddy County, NM
API #30-015-44532
Job No. 62150

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	1H	0	468	12/20/17	12/20/17	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

JAN 16 2018

RECEIVED

SURVEY CERTIFICATION FORM

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



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Company: Mewbourne

Job #: 62150

Well Name: Annabelle 18 13 W2P0 Fed Com 1H

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-44532

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 (°)
2017-12-20	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-12-20	468	0.57	341.35

Projected TD Survey

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

Grid Correction
-0.06

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: 12-20-17

Print Name: Noe Garza

Signature: _____



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TECHNOLOGY SERVICES

Company: Newbourne
Well: Annabelle 18 13 W2PD Fed Com 1H
Location: Eddy Co., New Mexico
Rig: Patterson 245

Job Number: 62150
Grid Corr.: -0.06
Lat: 32.21
Long: -104.22

Date: 12-20-17
Calculation Method: Minimum Curvature
Proposed Azimuth: 27
RKB - MSL in feet: Surface
Tie Into:

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	0.54	308.96	100	100.00	0.30	0.30 N	0.37 W	0.47	308.96	0.54	0.54	308.96
	200.00	0.63	284.56	100	199.99	0.73	0.73 N	1.26 W	1.46	300.02	0.26	0.09	-24.40
	300.00	0.09	323.74	100	299.99	0.93	0.93 N	1.84 W	2.07	296.83	0.56	-0.54	39.18
	400.00	0.98	13.28	100	399.99	1.83	1.83 N	1.69 W	2.49	317.19	0.92	0.89	-310.46
	468.00	0.57	341.35	68	467.98	2.71	2.71 N	1.67 W	3.19	328.43	0.85	-0.60	482.46

SCALE: 1" = 100'
DATE: 8-11-2017
SURVEYED BY: MKL/TF
DRAWN BY: CMJ
APPROVED BY: RMH
SHEET: 1 OF 1