



# 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



**PHOENIX**  
TECHNOLOGY SERVICES

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

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

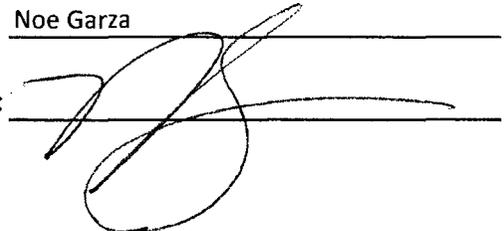
Gyro Operator: Phoenix Technology Services USA Ltd.

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: 



**PHOENIX**  
TECHNOLOGY SERVICES

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

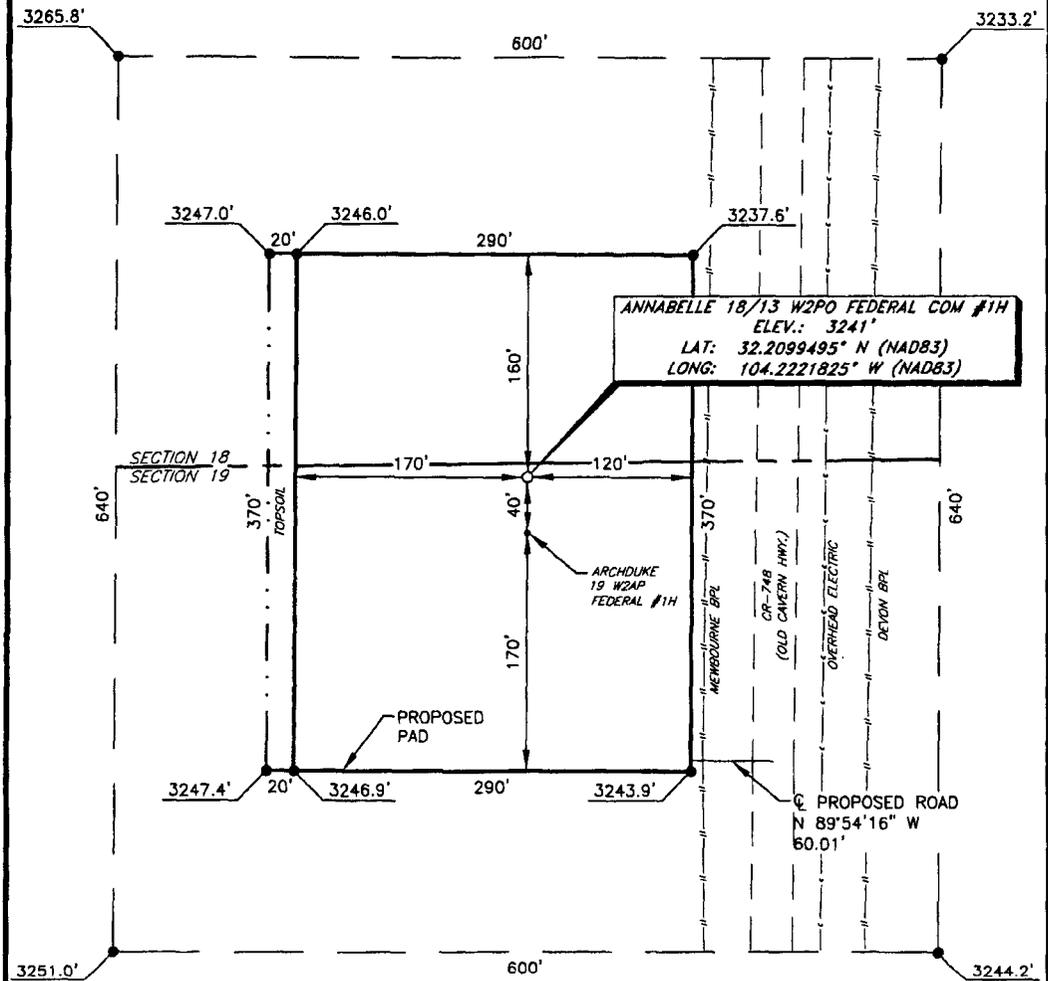
Job Number: 62150  
Grid Corr.: -0.06  
Lat: 32.21  
Long: -104.22

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 N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Enter Tie-In Survey on Line 10													
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

FIELD COPY, NON-DEFINITIVE

**MEWBOURNE OIL COMPANY**  
**ANNABELLE 18/13 W2PO FEDERAL COM #1H**  
**(10' FNL & 330' FEL)**  
**SECTION 19, T24S, R27E**  
**N. M. P. M., EDDY CO., NEW MEXICO**



**DIRECTIONS TO LOCATION**

From the intersection of CR-74B (Old Cavern Rd.) and CR-720 (Black River Village Rd.);

Go South on CR-74B approx. 1.5 miles to a proposed road on the right;

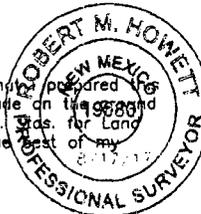
Turn right on proposed road and go West approx. 180 feet to location on the right.



SCALE: 1" = 100'  
 0 50 100  
 BEARINGS ARE  
 NAD 83 GRID - NM EAST  
 DISTANCES ARE  
 GROUND.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that the proposed well location shown on this plat is the result of an unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stats. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.:	LS1701032R	
DWG. NO.:	03032RPAD	

**RRC**

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

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