



# 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*

April 16, 2018

Oil Conservation Division  
State of New Mexico  
1625 N. French Drive  
Hobbs, New Mexico 88240

Dear District 1 - Hobbs

Attention: Regulatory Department

Re: Mewbourne Oil  
Jennings 27 W1AP Federal Com 4H  
Lea County, New Mexico  
API #30-025-43354  
Job No. 62636

HOBBS OCD  
APR 23 2018  
RECEIVED

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	4H	0	822	4/15/18	4/15/18	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 #: 62636

Well Name: Jennings 27 W1AP Federal Com 4H

County/State: Lea/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43354

## 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 (°)
2018-04-15	0	0	0

## Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-04-15	822	0.61	185.67

## Projected TD Survey

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

Grid Correction
-0.36

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:

4/15/18

Print Name: Andy Askew

Signature:



Company: Mewbourne  
 Well: Jennings 27 W1AP Federal Com 4H  
 Location: Lea Co., NM  
 Rig: Patterson 242

Job Number: 62636  
 Grid Corr.: -0.36  
 Lat: 32.10  
 Long: -103.65

Date: 04-15-18  
 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)			
<b>Enter Tie-In Survey on Line 10</b>													
<b>FIELD COPY, NON-DEFINITIVE</b>													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.35	337.81	100	100.00	0.28	0.28 N	0.12 W	0.31	337.81	0.35	0.35	337.81
	200.00	0.44	53.13	100	200.00	0.80	0.80 N	0.08 E	0.80	5.49	0.49	0.09	-284.68
	300.00	0.45	102.11	100	299.99	0.94	0.94 N	0.77 E	1.22	39.12	0.37	0.01	48.98
	400.00	0.32	202.79	100	399.99	0.60	0.60 N	1.04 E	1.21	59.93	0.60	-0.13	100.68
	500.00	0.55	124.13	100	499.99	0.08	0.08 N	1.33 E	1.33	86.67	0.58	0.23	-78.66
	600.00	0.68	190.60	100	599.99	-0.78	0.78 S	1.62 E	1.80	115.56	0.68	0.13	66.47
	700.00	0.55	176.20	100	699.98	-1.84	1.84 S	1.54 E	2.40	139.97	0.20	-0.13	-14.40
	800.00	0.74	195.32	100	799.97	-2.94	2.94 S	1.40 E	3.26	154.46	0.28	0.19	19.12
	822.00	0.61	185.67	22	821.97	-3.19	3.19 S	1.36 E	3.47	157.00	0.78	-0.59	-43.86



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  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

HOBBS OCD

JUL 06 2016

RECEIVED

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30029-47354</b>	<sup>2</sup> Pool Code <b>97838</b>	<sup>3</sup> Pool Name <b>JENNINGS UPPER BOKE SPRING</b>
<sup>4</sup> Property Code <b>316490</b>	<sup>5</sup> Property Name <b>JENNINGS 27 A3AP FED COM</b>	
<sup>7</sup> GRID NO. <b>14744</b>	<sup>8</sup> Operator Name <b>MEWBOURNE OIL COMPANY</b>	<sup>6</sup> Well Number <b>1H</b>
		<sup>9</sup> Elevation <b>3402'</b>

<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>A</b>	<b>27</b>	<b>25S</b>	<b>32E</b>		<b>185</b>	<b>NORTH</b>	<b>500</b>	<b>EAST</b>	<b>LEA</b>

<sup>11</sup> 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
<b>P</b>	<b>27</b>	<b>25S</b>	<b>32E</b>		<b>330</b>	<b>SOUTH</b>	<b>330</b>	<b>EAST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>160</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

<sup>16</sup> <b>GEODETIC DATA</b> NAD 27 GRID - NM EAST  <sup>17</sup> <b>SURFACE LOCATION</b> N 403712.3 - E 709910.0 LAT: 32.10810661° N LONG: 103.65540305° W <sup>18</sup> <b>BOTTOM HOLE</b> N 398955.1 - E 710120.0 <sup>19</sup> <b>CORNER DATA</b> A: CALCULATED CORNER N 398575.2 - E 705114.2 B: FOUND BRASS CAP "1939" N 401214.8 - E 705094.4 C: FOUND BRASS CAP "1939" N 403854.9 - E 705072.0 D: FOUND BRASS CAP "1939" N 403871.6 - E 707742.9 E: FOUND BRASS CAP "1939" N 403903.1 - E 710407.2 F: FOUND BRASS CAP "1939" N 401281.5 - E 710445.3 G: FOUND BRASS CAP "1939" N 398629.1 - E 710450.6 H: FOUND BRASS CAP "1939" N 398597.5 - E 707781.4		<b>DETAIL "A"</b> 3399.8' 760' 3404.0' 600' S. L. 3398.5' 3401.7'	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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: <b>B. F. Bishop</b> Date: <b>9.29.15</b> Printed Name: <b>BRANLEY BISHOP</b> E-mail Address:
N 00°29'14" W 2640.65' N 00°25'43" W 2640.24' S 89°31'14" W 2667.87' S 89°19'19" W 2669.93'		185' S. L. SEE DETAIL "A" 500' S 02°31'42" E (GRID) 4762.70' (HORIZ.) 330' 330'	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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. <b>8-20-2015</b> Date of Survey Signature and Seal of Professional Surveyor <b>ROBERT M. HOWETT</b> 19680 Certificate Number

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1508443