



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

30-025-45087

October 19, 2018

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

HOBBS OCD
NOV 26 2018
RECEIVED

Dear District 1 - Hobbs

Attention: Regulatory Department

Re: Mewbourne Oil
Caper 20 29 B2CN Federal Com No. 1H
Lea County, New Mexico
API #30-025-45087
Job No. 63715

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	
Leo Garza	1H	0	1,000	10/16/18	10/16/18	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 #: 63715

Well Name: Caper 20 29 B2CN Federal Com No.1H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-45087

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 (°)
2018-10-16	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-10-16	1000	0.4	197.7

Projected TD Survey

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

Grid Correction
-0.34

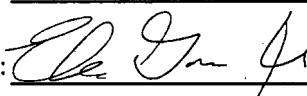
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 2018-10-16

Print Name: Leo Garza

Signature: 



Company: Mewbourne
 Well: Caper 20 29 B2CN Fed Com No.1H
 Location: Lea Co., New Mexico
 Rig: Patterson #250

Job Number: 63715
 Grid Corr.: -0.34
 Lat: 32.47
 Long: -103.70

Date: 10-16-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 29.5
 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	0.34	253.16	100	100.00	-0.09	0.09 S	0.28 W	0.30	253.16	0.34	0.34	253.16
	200.00	0.37	267.45	100	200.00	-0.19	0.19 S	0.89 W	0.91	258.19	0.09	0.03	14.29
	300.00	0.20	340.25	100	300.00	-0.04	0.04 S	1.27 W	1.27	268.36	0.36	-0.17	72.80
	400.00	0.19	294.46	100	400.00	0.20	0.20 N	1.48 W	1.49	277.55	0.15	-0.01	-45.79
	500.00	0.12	230.81	100	500.00	0.20	0.20 N	1.71 W	1.73	276.62	0.17	-0.07	-63.65
	600.00	0.47	270.78	100	599.99	0.14	0.14 N	2.21 W	2.21	273.59	0.39	0.35	39.97
	700.00	0.53	238.48	100	699.99	-0.10	0.10 S	3.01 W	3.01	268.14	0.28	0.06	-32.30
	800.00	0.53	242.37	100	799.99	-0.55	0.55 S	3.81 W	3.85	261.73	0.04	0.00	3.89
	900.00	0.62	232.05	100	899.98	-1.10	1.10 S	4.65 W	4.78	256.68	0.14	0.09	-10.32
	1000.00	0.40	197.70	100	999.98	-1.77	1.77 S	5.18 W	5.48	251.18	0.37	-0.22	-34.35

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-04-45087	² Pool Code 51683 5695	³ Pool Name ALBANY BASIN; BONE SPRING
⁴ Property Code 325247	⁵ Property Name CAPER 20/29 B2CN FEDERAL COM	
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	
		⁶ Well Number 1H
		⁹ Elevation 3637'

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
N	17	21S	32E		360	SOUTH	2000	WEST	LEA

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
N	29	21S	32E		330	SOUTH	1980	WEST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	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.

	GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N: 536115.9 - E: 695793.0 LAT: 32.4722932° N LONG: 103.6984621° W BOTTOM HOLE N: 525521.5 - E: 695842.5 LAT: 32.4431714° N LONG: 103.6985058° W CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1916" N: 525232.1 - E: 735046.9 B: FOUND BRASS CAP "1916" N: 527873.3 - E: 735030.1 C: FOUND BRASS CAP "1916" N: 530515.0 - E: 735012.4 D: FOUND BRASS CAP "1916" N: 533156.0 - E: 734994.8 E: FOUND BRASS CAP "1916" N: 535796.9 - E: 734977.4 F: FOUND BRASS CAP "1916" N: 538437.8 - E: 734960.4 G: CALCULATED CORNER N: 541078.0 - E: 734942.9 DETAIL "A" 3635.4' 600' 3638.5' 3632.8' 600' 3638.7'	GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 536177.2 - E: 736974.5 LAT: 32.4724156° N LONG: 103.6989533° W BOTTOM HOLE N: 525582.5 - E: 737024.3 LAT: 32.4432939° N LONG: 103.6989959° W H: FOUND BRASS CAP "1916" N: 541101.3 - E: 737591.3 I: FOUND BRASS CAP "1916" N: 541139.6 - E: 740240.7 J: FOUND BRASS CAP "1916" N: 538491.6 - E: 740254.1 K: FOUND BRASS CAP "1916" N: 535850.9 - E: 740270.1 L: FOUND BRASS CAP "1916" N: 533209.9 - E: 740284.5 M: FOUND BRASS CAP "1916" N: 530566.4 - E: 740299.7 N: FOUND BRASS CAP "1916" N: 527928.8 - E: 740313.1 O: FOUND BRASS CAP "1916" N: 525287.1 - E: 740328.6 P: FOUND BRASS CAP "1916" N: 525259.4 - E: 737687.3 Q: FOUND BRASS CAP "1916" N: 530542.7 - E: 737654.9	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. Signature: <i>Bradley Bishop</i> Date: 6-7-17 Printed Name: BRADLEY BISHOP E-mail Address: BBISHOP@MEWBOURNE.COM 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. 5-9-2017 Date of Survey Signature and Seal of Professional Surveyor: <i>Robert M. Howett</i> 19680 Certificate Number
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RRC-Job No.: LS1703142