

HOTTER

SEP 04 2018

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Weatherford

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

Mewbourne Oil Company

PO Box 5270

Hobbs, NM 88241

Date: March 29, 2018

Attention: Kyle Freidenbloom

Re: Mewbourne Oil Company
Well: Pronghorn 15 B3CN Federal Com
Lea County, New Mexico

30-025-44011

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc., a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Michael Lord MWD Supervisor	1H	1,727' MD 15,957' MD	3/02/2018 3/26/2018	Measurement While Drilling

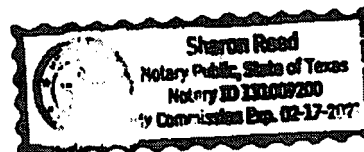
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jeffery Johnson
MWD Ops Coordinator

On this, the 29th day of March, 2018, before me a notary public, the undersigned officer, personally appeared Jeffery Johnson, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public





MEWBOURNE
OIL COMPANY

SD Survey Report

Mewbourne Oil Company

Field Name: *Mewbourne Oil Company (Nad 27 NMEZ)*

Site Name: *Pronghorn/Ibex Pad*

Well Name: *Pronghorn 15 B3CN Fed Com #1H*

File number: *13042014*

Survey: *Definitive survey*

29 March 2018



Weatherford



Pronghorn 15 B3CN Fed Com #1H

Map Units: US ft **Company Name:** Mewbourne Oil Company
Field Name: Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD27 / New Mexico East
Comment:

Units: US ft **North Reference:** Grid **Convergence Angle:** 0.47

Elevation above MSL: 3397.00 US ft
Comment: Lea Co., NM

Slot: Slot TVD Reference: Ground Elevation
Elevation above MSL: 3397.00 US ft
Comment:

Type: Main well **UWI:**
File Number: 13042014 **Comment:** Patterson 217
Closure Distance: 4761.55US ft **Closure Azimuth:** 178.34°
Vertical Section: Position of Origin (Relative to Slot centre)
+N/-S: 0.00 US ft **+E/-W:** 0.00 US ft **Az:** 179.50°

Drill floor: Survey Name: Definitive Survey
Rig Height (Drill Floor): 27.00us ft **Elevation above MSL:** 3424.00us ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey

Date: 13/Feb/2018 **Survey Tool:** See Survey **Comments:** **Company:**
Tool Ranges below.

Magnetic Model:
Model Name: bggm2017 **Date:** 01/Mar/2018 **Field Strength:** 48002.2nT **Declination:** 6.90° **Dip:** 60.13°

Tie Point:
MD: 0.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** -0.00 US ft **North Offset:** 0.00 US ft **East Offset:** 0.00 US ft

Survey Tool Ranges:

Name	Start MD(us ft)	End MD(us ft)	Source Survey
GYRO-MS-OW	0.00	1646.00	Phoenix Gyro
MWD	1646.00	9431.00	MWD 1

Survey Points: Incident to Settlement (TMS relative to Bull Head)

6361.00	2.16	38.70	6349.83	-35.14	55.56	48.98	0.07	478102.86	769701.99
6458.00	2.20	36.54	6444.76	-57.99	58.42	49.19	0.10	478105.72	769704.14
6551.00	2.02	31.35	6539.69	-60.86	61.31	51.14	0.28	478108.61	769706.14
6648.00	1.77	33.27	6634.60	-63.51	63.97	52.87	0.27	478111.37	769707.87
6743.00	1.73	27.07	6729.60	-66.00	66.47	54.27	0.20	478113.77	769709.27
6838.00	1.57	27.15	6824.56	-68.42	68.91	55.57	0.17	478116.21	769710.52
6933.00	1.33	26.45	6919.53	-70.56	71.06	56.60	0.25	478118.35	769711.60
7028.00	1.39	28.27	7014.50	-72.55	73.06	57.64	0.08	478120.36	769712.64
7123.00	1.36	18.62	7109.47	-74.63	75.14	58.55	0.25	478122.44	769713.55
7218.00	0.91	18.13	7204.46	-76.41	76.92	59.16	0.47	478124.22	769714.14
7313.00	0.88	24.18	7299.44	-77.78	78.31	59.68	0.30	478125.63	769714.88
7408.00	0.63	23.85	7394.44	-78.97	79.46	60.19	0.26	478126.75	769715.19
7503.00	0.64	30.20	7489.43	-80.00	80.53	60.75	0.24	478127.83	769715.75
7598.00	0.85	36.86	7584.42	-81.16	81.70	61.52	0.10	478129.00	769716.52
7693.00	0.95	50.89	7679.41	-82.23	82.78	62.58	0.28	478130.08	769717.58
7788.00	1.04	33.85	7774.39	-83.45	84.01	63.70	0.32	478131.31	769718.70
7883.00	0.98	26.69	7869.38	-84.89	85.45	64.54	0.15	478132.75	769719.54
7978.00	1.09	20.30	7964.36	-86.45	87.03	65.22	0.17	478134.33	769720.22
8072.00	1.50	16.79	8059.34	-88.45	89.03	65.92	0.44	478136.33	769720.92
8167.00	1.49	14.00	8153.30	-90.83	91.41	66.61	0.12	478138.71	769721.61
8262.00	1.54	12.13	8248.27	-93.27	93.86	67.17	0.07	478141.16	769722.17
8357.00	1.46	0.14	8343.24	-95.72	96.32	67.44	0.34	478143.62	769722.44
8451.00	1.56	357.90	8437.21	-98.20	98.79	67.40	0.12	478146.09	769722.40
8547.00	1.73	347.79	8531.17	-100.93	101.51	67.05	0.35	478148.81	769722.05
8642.00	2.06	12.81	8626.12	-103.99	104.58	67.12	0.93	478151.68	769722.12
8737.00	2.12	21.30	8721.05	-107.28	107.89	68.14	0.33	478155.18	769723.14
8832.00	1.83	3.89	8816.00	-110.43	111.03	68.88	0.70	478158.33	769723.88
8927.00	1.59	11.95	8912.96	-113.22	113.83	69.30	0.40	478161.13	769724.30
9022.00	2.23	334.36	9007.91	-116.17	116.77	68.82	1.50	478164.07	769723.82
9117.00	2.79	336.72	9102.81	-119.97	120.56	67.10	0.60	478167.86	769723.10
9211.00	2.53	352.87	9196.71	-124.14	124.72	65.94	0.84	478172.02	769720.94
9306.00	1.79	354.06	9291.65	-127.70	128.28	65.73	0.78	478175.58	769720.53
9401.00	1.50	16.72	9386.61	-130.37	130.95	65.53	0.74	478178.25	769720.73
9495.00	0.91	45.71	9480.59	-132.06	132.64	66.62	0.80	478179.94	769721.62
9589.00	1.05	71.95	9574.57	-132.83	133.43	67.97	0.50	478180.73	769722.97
9684.00	1.54	68.87	9669.55	-133.55	134.16	69.99	0.52	478181.46	769724.99
9778.00	2.42	49.11	9763.49	-135.30	135.94	72.63	1.19	478183.24	769727.65
9873.00	2.16	47.91	9858.42	-137.82	138.48	75.47	0.27	478185.78	769730.47
9967.00	1.66	42.81	9952.37	-139.98	140.67	77.71	0.56	478187.97	769732.71
10062.00	1.44	25.54	10047.33	-142.06	142.76	79.16	0.54	478190.06	769734.16
10157.00	1.35	17.10	10142.30	-144.20	144.90	80.20	0.34	478192.20	769735.00
10251.00	1.97	31.98	10236.26	-146.62	147.33	81.18	0.80	478194.63	769736.18
10346.00	2.58	38.30	10331.19	-149.66	150.39	83.27	0.69	478197.69	769738.37
10440.00	2.42	38.60	10425.10	-152.85	153.61	85.92	0.17	478200.91	769740.92
10535.00	2.38	38.26	10520.02	-155.94	156.72	88.43	0.04	478204.07	769743.40
10630.00	2.23	32.30	10614.94	-159.04	159.83	90.61	0.33	478207.13	769745.61
10725.00	2.08	30.91	10709.87	-162.05	162.86	92.47	0.19	478210.16	769747.99
10820.00	1.84	30.94	10799.85	-162.92	163.74	92.99	0.73	478211.04	769747.99
10915.00	1.75	30.41	10771.84	-163.78	164.60	93.51	0.29	478211.90	769748.51
10819.00	0.38	84.16	10803.83	-164.20	165.03	93.86	4.86	478212.33	769748.86
10850.00	5.68	168.25	10834.78	-167.71	167.54	94.27	18.24	478210.84	769749.27
10945.00	15.71	173.89	10896.54	-150.72	151.56	95.46	13.78	478198.86	769750.46
10945.00	18.52	174.62	10927.12	-141.34	142.18	96.42	8.81	478189.49	769751.49
10977.00	23.63	172.25	10957.07	-130.16	131.02	97.71	13.10	478178.32	769752.71
11009.00	26.18	171.33	10986.21	-117.27	117.94	99.63	11.16	478165.24	769754.00
11040.00	29.90	172.31	11013.56	-102.63	103.57	101.67	12.06	478150.82	769756.67
11072.00	33.37	174.22	11040.80	-85.94	86.85	103.82	11.28	478134.15	769758.63
11104.00	35.61	175.98	11067.18	-67.86	68.80	105.16	7.66	478116.10	769760.16

Weatherford International Limited

2019-10-26 10:42 PM PST 10/26/2019

SD Survey, Peller

Survey Points (Relative to Station 11VD relative to Dull Floor)									
Point	Station	Station	Station	Station	Station	Station	Station	Station	Station
15481.00	89.51	177.38	11348.85	4216.88	-4215.83	139.48	1.91	473831.47	769794.48
15577.00	89.65	178.38	11349.55	4312.84	-4311.76	143.03	1.05	473735.54	769798.03
15672.00	91.61	180.05	11348.51	4407.83	-4406.73	144.33	2.71	473640.57	769799.33
15767.00	91.68	180.94	11345.78	4502.77	-4501.69	143.51	0.94	473545.61	769798.51
15862.00	91.54	181.08	11343.11	4597.70	-4596.64	141.84	0.21	473450.66	769796.84
15957.00	91.12	181.52	11340.91	4692.63	-4691.59	139.69	0.64	473355.71	769794.69
16025.00	91.12	181.52	11339.58	4760.57	-4759.55	137.88	0.00	473287.75	769792.88

Last WFT
MWD Svy
Projection to
TD

Weatherford International Limited

17 - 124 (04.1.1) 29 March 2016 07:34:42 UTC-5



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

March 8, 2018

Mewbourne Oil
Attention: Regulatory Department
701 S Cecil St
Hobbs, New Mexico 88240

HOBBS OCD

SEP 04 2018

RECEIVED

Re: Mewbourne Oil
Pronghorn 15 B3CN Fed Com # 1H
Lea County, New Mexico
API #30-025-44011
Job No. 62470

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 1 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Noe Garza	1H	0	1,646	3/4/18	3/4/18	Gyro

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

HOBBS OCD

SEP 04 2018

RECEIVED

SURVEY CERTIFICATION FORM

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

**PHOENIX**
TECHNOLOGY SERVICESCompany: MewbourneJob #: 62470Well Name: Pronghorn 15 B3CN Fed Com # 1HCounty/State: Lea Co., New MexicoSurvey Instrument Type: North Seek Rate GyroAPI # 30-025-44011**VERTICAL 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 (°)
2018-03-04	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-03-04	1646	5.75	207.2

Projected TD Survey

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

Grid Correction
-0.47

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:

03-04-18Print Name: Noe Garza

Signature:



Company: Mewbourne
 Well: Pronghorn 15 B3CN Fed Com # 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 217

Job Number: 62470
 Grid Corr.: -0.47
 Lat: 32.31
 Long: -103.46

Date: 03-04-18
 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	0.66	63.89	100	100.00	0.25	0.25 N	0.52 E	0.58	63.89	0.66	0.66	63.89
	200.00	0.39	20.31	100	199.99	0.83	0.83 N	1.15 E	1.42	54.37	0.46	-0.27	-43.58
	300.00	0.47	104.58	100	299.99	1.04	1.04 N	1.67 E	1.97	58.00	0.58	0.08	84.27
	400.00	0.35	30.23	100	399.99	1.20	1.20 N	2.22 E	2.52	61.53	0.50	-0.12	-74.35
	500.00	0.87	58.19	100	499.98	1.87	1.87 N	3.02 E	3.55	58.25	0.58	0.52	27.96
	600.00	0.46	57.01	100	599.98	2.49	2.49 N	4.00 E	4.71	58.14	0.41	-0.41	-1.18
	700.00	0.83	92.27	100	699.97	2.68	2.68 N	5.06 E	5.72	62.13	0.53	0.37	35.26
	800.00	0.69	145.65	100	799.96	2.15	2.15 N	6.12 E	6.49	70.66	0.69	-0.14	53.38
	900.00	1.45	183.47	100	899.95	0.39	0.39 N	6.39 E	6.40	86.51	1.00	0.76	37.82
	1000.00	3.73	200.46	100	999.84	-3.92	3.92 S	5.17 E	6.49	127.17	2.38	2.28	16.99
	1100.00	5.77	218.57	100	1099.50	-10.90	10.90 S	0.90 E	10.94	175.28	2.51	2.04	18.11
	1200.00	6.78	216.14	100	1198.90	-19.60	19.60 S	5.71 W	20.41	196.26	1.04	1.01	-2.43
	1300.00	7.31	209.23	100	1298.14	-29.92	29.92 S	12.30 W	32.35	202.35	1.00	0.53	-6.91
	1400.00	6.79	206.95	100	1397.39	-40.74	40.74 S	18.09 W	44.57	203.94	0.59	-0.52	-2.28
	1500.00	5.73	206.71	100	1496.79	-50.47	50.47 S	23.01 W	55.47	204.51	1.06	-1.06	-0.24
	1600.00	5.72	208.02	100	1596.29	-59.33	59.33 S	27.60 W	65.43	204.95	0.13	-0.01	1.31
	1646.00	5.75	207.20	46	1642.06	-63.40	63.40 S	29.73 W	70.02	205.12	0.19	0.07	-1.78



Newbourne Oil Company
Pronghorn 15 B3CN Fed Com #1H
Lea Co, NM



HR: 1414.00
Q1: 1391.00

Plan vs Actual

Plan Data for Pronghorn 15 B3CN Fed Com #1H

Field: Newbourne Oil Company (Mod 27 HREZ)
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD27 / New Mexico East

Site: Pronghorn 15 B3CN Fed Com #1H
Unit: USFet TVD Reference:
Company Name: Newbourne Oil Company
Position: Northing: 478047.30USFt Latitude: 32.311250°
Easting: 769655.00USFt Longitude: -103.460517°
North Reference: Grid Grid Convergence: 0.47°
Elevation Above VRD: 3197.00USFt
Comment: Lea Co., NM

Slot: Pronghorn 15 B3CN Fed Com #1H
Position:
Offset is from Slot centre
+N/-S: 0.00USFt Northing: 478047.30USFt Latitude: 32.311250°
+E/-W: 0.00USFt Easting: 769655.00USFt Longitude: -103.460517°
Elevation Above VRD: 3197.00USFt

Well: Pronghorn 15 B3CN Fed Com #1H
Type: Main Well
File Number:

Plan Folder: P2 Plan: P1.V2
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USFt Azimuth: 179.50°
+E/-W: 0.00USFt
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2017 48002(nT) 6.50° 60.13° 2010-07-01
Comment: Patterson 217

Plan Data for Pronghorn 15 B3CN Fed Com #1H

Plan Point Information:
Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USFt)	(°)	(°)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(DLSU)	
0.00	0.00	0.00	-0.00	0.00	0.00	478047.30	769655.00	0.00	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	478047.30	769655.00	0.00	0.00	Build @ 1°DLS
5316.29	2.16	29.43	5316.24	3.56	1.01	478050.86	769657.01	-3.54	1.00	Mold
10439.00	2.16	29.43	10435.30	171.94	56.99	478219.24	769751.99	-171.10	0.00	Drop @ 1°DLS
10655.29	0.00	0.00	10651.54	175.50	99.00	478222.00	769754.00	-174.63	1.00	Mold
10855.29	0.00	0.00	10851.54	175.50	99.00	478222.00	769754.00	-174.63	0.00	KOP- Build 12°DLS
31604.76	89.04	179.50	31329.00	-301.43	103.34	477745.07	769758.34	302.30	12.00	Landing Pt
35069.12	89.04	179.50	31334.00	-4765.60	141.90	473281.70	769796.90	4766.05	0.00	PDHL

Plan Data for Pronghorn 15 B3CN Fed Com #1H

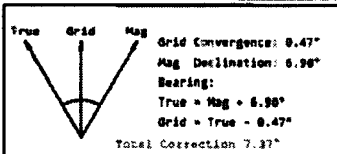
Casing Point Information:
Position offsets from Slot centre

Name	MD	TVD	+N/-S	+E/-W	Northing	Easting
	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)
13 3/8 in	1700.00	1700.00	0.00	0.00	478047.30	769655.00
9 5/8 in	4860.00	4860.00	0.00	0.00	478047.30	769655.00
7 in	11050.00	11304.00	-249.46	101.07	477857.84	769756.02

Plan Data for Pronghorn 15 B3CN Fed Com #1H

Target Set Information:
Name: 015 B3CN FC 1H
Position offsets from Slot centre

Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting
	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)
KOP	10851.54	-7427.54	175.50	99.00	478222.00	769754.00
PDHL	11334.00	-7910.00	-4765.60	141.90	473281.70	769796.90



Drawing By: Ty Hardin Date: 13 February 2010
Office Name: Drilling Services - Houston
Address: 11181 Cotton Road
Houston, TX 77060
Phone: Office: +1 812 955 0030 | Cell: +1 713 982 8214

