

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

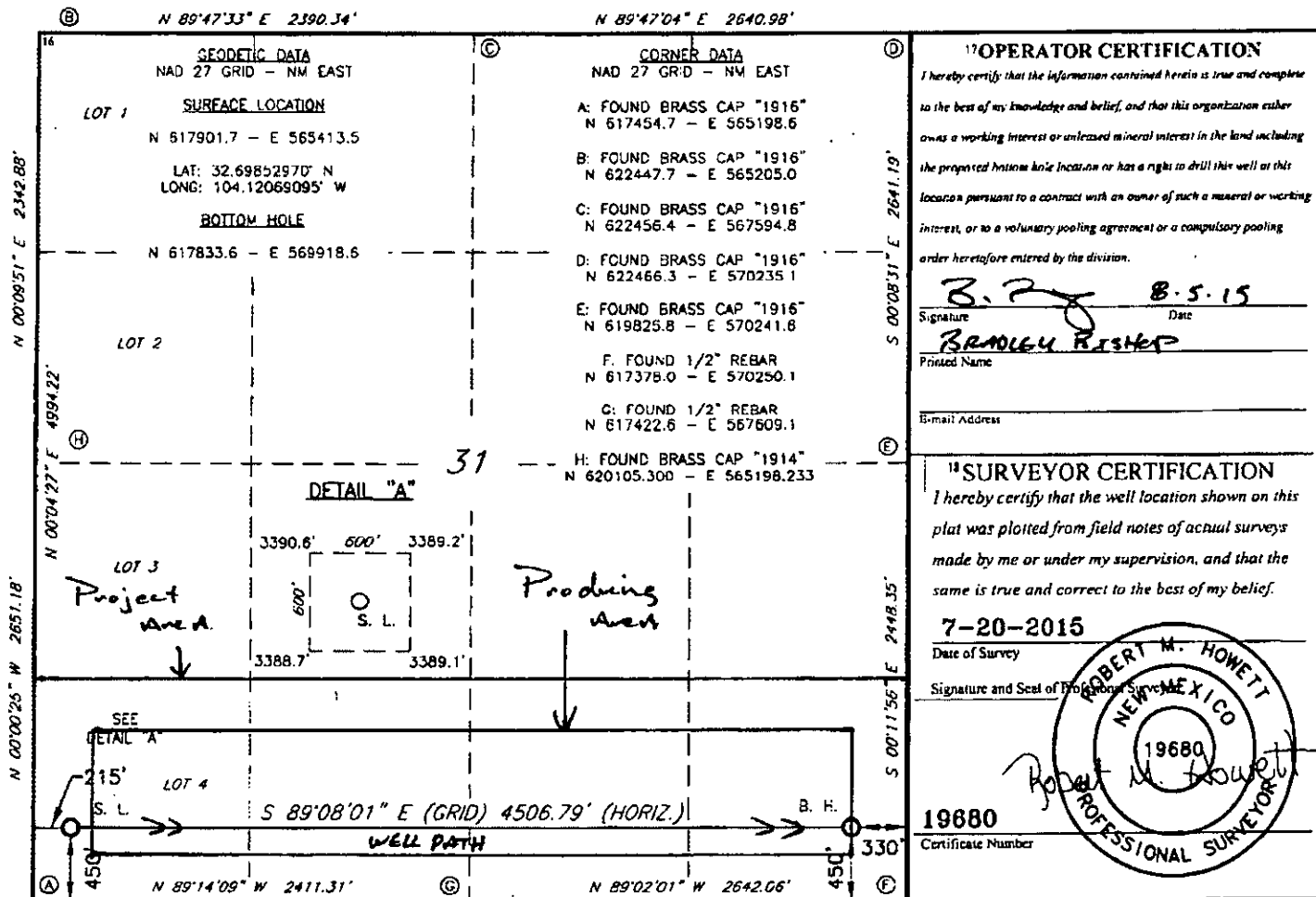
1 API Number 30-015-43786		2 Pool Code 49553		3 Pool Name PALMILLO EAST BONE SPRING OIL	
4 Property Code 316224		5 Property Name PAVO MACHO 31 B2MP FEDERAL			6 Well Number 1H
7 GRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3389'

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
4	31	18S	29E		450	SOUTH	215	WEST	EDDY

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
P	31	18S	29E		450	SOUTH	330	EAST	EDDY

12 Dedicated Acres 123.6	13 Joint or Infill	14 Consolidation Code	15 Order No.
------------------------------------	--------------------	-----------------------	--------------

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.



RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1507346



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

July 13, 2016

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

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Mewbourne Oil
Pavo Macho 31 B2MP Federal 1H
Eddy County, NM
API #30-015-43786
Job No. 1610306

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 29 2016

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	1H	0	5,240	07/05/16	07/05/16	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,

Claudia Carreon
Operations Administrator

SURVEY CERTIFICATION FORM

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



Company: Mewbourne Oil

Job #: 1610306

Well Name: Pavo Macho 31 B2MP Federal 1H

County/State: Eddy/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-43786

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 (°)
2016-07-05	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-07-05	5240	5.64	261.4

Projected TD Survey

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

Grid Correction
-0.11

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Jaime Stephenson

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

Date:

7/7/16

Print Name: Andy Askew

Signature:

Andy Askew



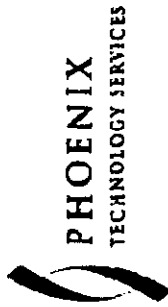
PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne Oil
Well: Pavo Macho 31 B2MP Federal1H
Location: Eddy Co., NM
Rig: Patterson 231

Job Number: 1610306
Grid Corr.: -0.11
Lat: 32.69
Long: -104.12

Date: 07-05-16
Calculation Method: Minimum Curvature
Proposed Azimuth: 26
RKB - MSL in feet: 26
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)			
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.30	246.00	100	100.00	-0.11	0.11 S	0.24 W	0.26	246.00	0.30	0.30	246.00
	200.00	0.41	230.95	100	200.00	-0.44	0.44 S	0.76 W	0.87	239.90	0.14	0.11	-15.05
	300.00	0.45	211.43	100	299.99	-1.00	1.00 S	1.24 W	1.59	231.12	0.15	0.04	-19.52
	400.00	0.50	153.81	100	399.99	-1.73	1.73 S	1.25 W	2.13	215.94	0.46	0.05	-57.62
	500.00	0.71	130.70	100	499.99	-2.52	2.52 S	0.59 W	2.59	193.14	0.32	0.21	-23.11
	600.00	1.01	86.56	100	599.98	-2.87	2.87 S	0.76 E	2.97	165.16	0.70	0.30	-44.14
	700.00	1.21	82.32	100	699.96	-2.68	2.68 S	2.69 E	3.79	134.91	0.22	0.20	-4.24
	800.00	0.64	94.91	100	799.94	-2.58	2.58 S	4.29 E	5.01	121.07	0.60	-0.57	12.59
	900.00	0.55	83.86	100	899.94	-2.58	2.58 S	5.32 E	5.92	115.87	0.15	-0.09	-11.05
	1000.00	0.57	106.31	100	999.93	-2.67	2.67 S	6.28 E	6.82	113.04	0.22	0.02	22.45
	1100.00	0.51	76.68	100	1099.93	-2.71	2.71 S	7.19 E	7.68	110.63	0.28	-0.06	-29.63
	1200.00	0.27	134.55	100	1199.93	-2.77	2.77 S	7.79 E	8.27	109.57	0.43	-0.24	57.87
	1300.00	0.20	241.68	100	1299.93	-3.02	3.02 S	7.80 E	8.37	111.14	0.38	-0.07	107.13
	1400.00	0.67	93.03	100	1399.92	-3.13	3.13 S	8.23 E	8.81	110.82	0.85	0.47	-148.65
	1500.00	0.13	58.71	100	1499.92	-3.10	3.10 S	8.91 E	9.44	109.19	0.57	-0.54	-34.32
	1600.00	0.21	292.78	100	1599.92	-2.97	2.97 S	8.84 E	9.33	108.59	0.31	0.08	234.07
	1700.00	0.45	32.68	100	1699.92	-2.57	2.57 S	8.89 E	9.25	106.14	0.53	0.24	-260.10
	1800.00	0.24	174.50	100	1799.92	-2.45	2.45 S	9.12 E	9.44	105.04	0.66	-0.21	141.82
	1900.00	0.29	216.14	100	1899.92	-2.86	2.86 S	8.99 E	9.43	107.67	0.19	0.05	41.64
	2000.00	0.51	204.31	100	1999.92	-3.47	3.47 S	8.66 E	9.33	111.86	0.23	0.22	-11.83
	2100.00	0.54	218.69	100	2099.91	-4.25	4.25 S	8.18 E	9.22	117.44	0.13	0.03	14.38
	2200.00	0.60	230.01	100	2199.91	-4.95	4.95 S	7.48 E	8.97	123.49	0.13	0.06	11.32
	2300.00	0.63	258.18	100	2299.90	-5.40	5.40 S	6.54 E	8.48	129.53	0.30	0.03	28.17
	2400.00	0.46	230.75	100	2399.90	-5.77	5.77 S	5.69 E	8.10	135.36	0.31	-0.17	-27.43
	2500.00	0.18	120.32	100	2499.90	-6.10	6.10 S	5.52 E	8.23	137.86	0.55	-0.28	-110.43
	2600.00	0.34	214.47	100	2599.90	-6.42	6.42 S	5.49 E	8.45	139.50	0.40	0.16	94.15
	2700.00	0.62	273.49	100	2699.89	-6.64	6.64 S	4.78 E	8.18	144.24	0.53	0.28	59.02



Company:

Mewbourne Oil

Well:

Pavo Macho 31 B2MP FederalIH

Location:

Eddy Co., NM

Rig:

Patterson 231

Job Number:

1610306

Grid Corr.:

-0.11

Lat:

32.69

Long:

-104.12

Calculation Method:

Minimum Curvature

Proposed Azimuth:

26

RKB - MSL in feet:

Surface

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')
	2800.00	0.72	245.59	100	2799.89	-6.86	N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2900.00	0.49	166.18	100	2899.88	-7.54	6.86 S	3.67 E	7.78	151.88	0.34	0.10	-27.90
	3000.00	0.48	235.76	100	2999.88	-8.19	7.54 S	3.20 E	8.19	157.02	0.79	-0.23	-79.41
	3100.00	0.55	203.24	100	3099.87	-8.86	8.19 S	2.95 E	8.70	160.17	0.55	-0.01	69.58
	3200.00	0.54	233.00	100	3199.87	-9.59	8.86 S	2.42 E	9.19	164.75	0.30	0.07	-32.52
	3300.00	0.55	241.98	100	3299.87	-10.10	9.59 S	1.85 E	9.77	169.07	0.28	-0.01	29.76
	3400.00	1.30	247.44	100	3399.85	-10.76	10.10 S	1.05 E	10.15	174.06	0.09	0.01	8.98
	3500.00	0.97	272.95	100	3499.83	-11.15	10.76 S	0.42 W	10.77	182.24	0.75	0.75	5.46
	3600.00	1.16	256.63	100	3599.82	-11.34	11.15 S	2.31 W	11.39	191.72	0.60	-0.33	25.51
	3700.00	1.15	257.34	100	3699.80	-11.79	11.34 S	4.14 W	12.07	200.07	0.36	0.19	-16.32
	3800.00	1.72	270.46	100	3799.76	-12.00	11.79 S	6.11 W	13.28	207.37	0.02	-0.01	0.71
	3900.00	1.51	283.14	100	3899.72	-11.69	12.00 S	8.59 W	14.76	215.58	0.65	0.57	13.12
	4000.00	1.53	272.31	100	3999.69	-11.34	11.69 S	11.37 W	16.31	224.20	0.41	-0.21	12.68
	4100.00	1.46	277.09	100	4099.66	-11.13	11.34 S	13.99 W	18.01	230.97	0.29	0.02	-10.83
	4200.00	0.93	239.36	100	4199.63	-11.38	11.13 S	16.59 W	19.97	236.14	0.14	-0.07	4.78
	4300.00	1.47	251.75	100	4299.61	-12.20	11.38 S	18.55 W	21.76	238.46	0.92	-0.53	-37.73
	4400.00	1.05	216.36	100	4399.59	-13.34	12.20 S	20.46 W	23.82	239.20	0.60	0.54	12.39
	4500.00	1.12	269.33	100	4499.57	-14.09	13.34 S	22.23 W	25.92	239.03	0.86	-0.42	-35.39
	4600.00	1.83	287.49	100	4599.54	-13.62	14.09 S	23.75 W	27.61	239.32	0.97	0.07	52.97
	4700.00	1.95	283.78	100	4699.49	-12.73	13.62 S	26.25 W	29.57	242.58	0.84	0.71	18.16
	4800.00	2.12	275.02	100	4799.42	-12.17	12.73 S	29.42 W	32.06	246.60	0.17	0.12	-3.71
	4900.00	2.46	265.69	100	4899.34	-12.17	12.17 S	32.92 W	35.09	249.72	0.35	0.17	-8.76
	5000.00	2.86	258.73	100	4999.24	-12.17	12.17 S	36.90 W	38.85	251.75	0.50	0.34	-9.33
	5100.00	3.69	258.87	100	5099.07	-13.92	12.81 S	41.49 W	43.42	252.83	0.51	0.40	-6.96
	5200.00	5.19	262.44	100	5198.77	-15.14	13.92 S	47.09 W	49.11	253.53	0.83	0.83	0.14
	5240.00	5.64	261.40	40	5238.59	-15.67	15.14 S	54.73 W	56.79	254.54	1.52	1.50	3.57
							15.67 S	58.47 W	60.53	255.00	1.15	1.13	-2.60