



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 9, 2018

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

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 17 2018

RECEIVED

Dear District 2 - Artesia

Attention Regulatory Department

Re Mewbourne Oil

Derringer 18 B2MP Federal 1H

Eddy County, NM

API# 30-015-43902

Job No 62599

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	2,874	4/8/18	4/8/18	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 # 62599

Well Name Derringer 18 B2MP Federal 1H

County/State Eddy / NM

Survey Instrument Type North Seek Rate Gyro

API # 30-015-43902

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 (°)
2018-04-08	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-04-08	2874	0 6	88 57

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 Angel Guebara

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

Date

4/8/18

Print Name Andy Askew

Signature

Andy Askew



Company Mewbourne
 Well Derringer 18 B2MP Federal 1H
 Location Eddy Co ,NM
 Rig Patterson 560

Job Number 62599
 Grid Corr -0 11
 Lat 32 56
 Long -104 12

Date 04-08-18
 Calculation Method Minimum Curvature
 Proposed Azimuth 28 6
 RKB - MSL in feet 28 6
 Tie Into Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (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 63	233 99	100	100 00	-0 32	0 32 S	0 44 W	0 55	233 99	0 63	0 63	233 99
	200 00	0 94	281 93	100	199 99	-0 48	0 48 S	1 69 W	1 76	254 26	0 70	0 31	47 94
	300 00	1 32	274 32	100	299 97	-0 22	0 22 S	3 64 W	3 65	266 54	0 41	0 38	-7 61
	400 00	2 71	262 26	100	399 91	-0 45	0 45 S	7 13 W	7 15	266 37	1 45	1 39	-12 06
	500 00	3 27	262 65	100	499 77	-1 14	1 14 S	12 31 W	12 36	264 73	0 56	0 56	0 39
	600 00	2 64	253 97	100	599 64	-2 14	2 14 S	17 35 W	17 48	262 98	0 77	-0 63	-8 68
	700 00	2 65	251 92	100	699 53	-3 49	3 49 S	21 76 W	22 04	260 89	0 10	0 01	-2 05
	800 00	2 56	248 89	100	799 43	-5 01	5 01 S	26 04 W	26 52	259 11	0 16	-0 09	-3 03
	900 00	2 65	245 80	100	899 32	-6 76	6 76 S	30 23 W	30 98	257 39	0 17	0 09	-3 09
	1000 00	3 03	242 64	100	999 20	-8 93	8 93 S	34 69 W	35 82	255 57	0 41	0 38	-3 16
	1100 00	2 90	243 69	100	1099 07	-11 26	11 26 S	39 30 W	40 88	254 01	0 14	-0 13	1 05
	1200 00	2 73	247 35	100	1198 95	-13 30	13 30 S	43 77 W	45 74	253 10	0 25	-0 17	3 66
	1300 00	2 82	248 27	100	1298 83	-15 13	15 13 S	48 25 W	50 57	252 59	0 10	0 09	0 92
	1400 00	2 35	249 15	100	1398 73	-16 77	16 77 S	52 45 W	55 07	252 27	0 47	-0 47	0 88
	1500 00	1 94	243 76	100	1498 66	-18 25	18 25 S	55 89 W	58 79	251 92	0 46	-0 41	-5 39
	1600 00	1 76	255 48	100	1598 60	-19 38	19 38 S	58 89 W	62 00	251 78	0 42	-0 18	11 72
	1700 00	1 55	245 67	100	1698 56	-20 32	20 32 S	61 61 W	64 87	251 74	0 35	-0 21	-9 81
	1800 00	1 08	268 03	100	1798 54	-20 91	20 91 S	63 78 W	67 12	251 85	0 69	-0 47	22 36
	1900 00	0 43	292 28	100	1898 53	-20 80	20 80 S	65 07 W	68 32	252 27	0 71	-0 65	24 25
	2000 00	0 97	261 54	100	1998 52	-20 78	20 78 S	66 26 W	69 44	252 58	0 64	0 54	-30 74
	2100 00	1 77	221 92	100	2098 49	-22 06	22 06 S	68 13 W	71 61	252 06	1 20	0 80	-39 62
	2200 00	1 44	217 61	100	2198 45	-24 20	24 20 S	69 93 W	74 00	250 91	0 35	-0 33	-4 31
	2300 00	1 05	197 59	100	2298 43	-26 07	26 07 S	70 97 W	75 61	249 83	0 58	-0 39	-20 02
	2400 00	0 65	168 13	100	2398 42	-27 50	27 50 S	71 13 W	76 26	248 86	0 58	-0 40	-29 46
	2500 00	0 25	213 20	100	2498 42	-28 24	28 24 S	71 13 W	76 53	248 35	0 51	-0 40	45 07
	2600 00	0 23	172 04	100	2598 42	-28 62	28 62 S	71 22 W	76 76	248 11	0 17	-0 02	-41 16
	2700 00	0 37	97 62	100	2698 41	-28 86	28 86 S	70 88 W	76 53	247 84	0 38	0 14	-74 42



Company Mewbourne
Well Derringer 18 B2MP Federal 1H
Location Eddy Co ,NM
Rig Patterson 560

Job Number 62599
Grid Corr -0 11
Lat 32 56
Long -104 12

Calculation Method Minimum Curvature
Proposed Azimuth
RKB - MSL in feet 28 6
Tie Into Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (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)			
	2800 00	0 50	289 59	100	2798 41	-28 76	28 76 S	70 97 W	76 57	247 94	0 87	0 13	191 97
	2874 00	0 60	88 57	74	2872 41	-28 64	28 64 S	70 88 W	76 45	248 00	1 46	0 14	-271 65

DISTRICT I
1425 N. Fourth St. Hobbs, NM 88240
Phone: (505) 782-4141 Fax: (505) 782-4770

DISTRICT II
811 S. First St. Artesia, NM 88210
Phone: (505) 748-1282 Fax: (505) 748-4728

DISTRICT III
6000 Rio Pecos Rd. Alamo, NM 87410
Phone: (505) 734-4178 Fax: (505) 734-4179

DISTRICT IV
2228 E. St. Francis Dr. Santa Fe, NM 87502
Phone: (505) 476-3440 Fax: (505) 476-3462

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

Form C 102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43902	Pool Code 52805	Pool Name Russel Bone Spring
Property Code 316777	Property Name Derringer 18 B2MP Federal	Well Number 1H
OGRID No 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3252'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4M	18	20 S	29 E	(X)	300	SOUTH	305	WEST	EDDY

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	18	20 S	29 E		500	SOUTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidated Code	Order No
160			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division

N 89°53'48" E - 2375.2' SW COR SEC 18 NMSP-E (NAD 83) Y = 575080.5' N X = 606408.4' E		N 89°55'48" E - 2840.6' NE COR SEC 18 NMSP-E (NAD 83) Y = 575088.0' N X = 611425.2' E	
DERRINGER 18MP SHL NMSP-E (NAD 83) Y = 570085.5' N X = 606883.1' E N LAT = 32° 34' 01.45" W LONG = 104° 07' 16.82" NMSP-E (NAD 27) Y = 570034.0' N X = 585482.8' E N LAT = 32.586850876° W LONG = 104.120778901°		DERRINGER 18MP BHL NMSP-E (NAD 83) Y = 570303.8' N X = 611108.8' E N LAT = 32° 34' 03.42" W LONG = 104° 06' 24.69" NMSP-E (NAD 27) Y = 570242.4' N X = 589928.2' E N LAT = 32.587498470° W LONG = 104.106352284°	
SW COR SEC 18 NMSP-E (NAD 83) Y = 569754.8' N X = 606335.0' E		SE COR SEC 18 NMSP-E (NAD 83) Y = 569804.4' N X = 611337.8' E	
305'		330'	
S 89°52'30" W - 2441.2'		S 89°54'22" W - 2041.6'	

PROJECT AREA

↓

PRODUCING AREA

↓

N 87°18'52" E - 4448.3'

500'

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 undivided 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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

B. Bishop 9-30-14
Signature Date
BRANLEY BISHOP
Print Name
E-mail Address

SURVEYORS 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.

February 08, 2013
Date of Survey
Signature and Seal of Registered Surveyor

JAMES E. TOMPKINS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
14729

James E. Tompkins
John No. WTC48907
JAMES E. TOMPKINS 14729
Certificate Number