

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241		² OGRID Number 14744
		³ Reason for Filing Code/ Effective Date New Well / 09/09/15
⁴ API Number 30 - 015 - 42969	⁵ Pool Name Russell Bone Spring	⁶ Pool Code 52805
⁷ Property Code 314239	⁸ Property Name Derringer 18 B3DA Federal	⁹ Well Number 2H

II. ¹⁰ Surface Location

UL or lot no. D	Section 18	Township 20S	Range 29E	Lot Idn	Feet from the 665	North/South Line North	Feet from the 150	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. A	Section 18	Township 20S	Range 29E	Lot Idn	Feet from the 390'	North/South line North	Feet from the 333'	East/West line East	County Eddy
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¹² Lse Code F	¹³ Producing Method Code Gas Lift	¹⁴ Gas Connection Date 09/09/15	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
35246	Shell Trading US Co. PO Box 4604 Houston, TX 77210-4604	O
151618	Enterprise Field Services PO Box 4503 Houston, TX 77210	G

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 17 2015

IV. Well Completion Data

²¹ Spud Date 07/09/15	²² Ready Date 09/09/15	²³ TD 13168' 8974	²⁴ PBTD 13125'	²⁵ Perforations 9225' - 13125'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
26"	20"	375'	750		
17 1/2"	13 3/4"	1200'	900		
12 1/4"	9 5/8"	3026'	900		
8 3/4" 6 1/2"	7" 4 1/2"	9168' 8326' - 13168'	1100 250		
	2 7/8"	8307'			

V. Well Test Data

³¹ Date New Oil 09/09/15	³² Gas Delivery Date 09/09/15	³³ Test Date 09/10/15	³⁴ Test Length 17 hrs	³⁵ Tbg. Pressure NA	³⁶ Csg. Pressure 1200
³⁷ Choke Size 25/48	³⁸ Oil 527	³⁹ Water 1297	⁴⁰ Gas 692		⁴¹ Test Method Producing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Jackie Lathan

Printed name:
Jackie Lathan

Title:
Regulatory

E-mail Address:
jlathan@mewbourne.com

Date: 09/11/15 Phone: 575-393-5905

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will
subsequently be reviewed
and scanned *ced*

Provide signature page for Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

5. Lease Serial No.
NMNM01165

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
DERRINGER 18 B3DA FEDERAL 2H

9. API Well No.
30-015-42969

10. Field and Pool, or Exploratory
BONE SPRING

11. County or Parish, and State
EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
MEWBOURNE OIL COMPANY

Contact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com

3a. Address
PO BOX 5270
HOBBS, NM 88241

3b. Phone No. (include area code)
Ph: 575-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 18 T20S R29E Mer NMP NWNW 665FNL 150FWL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

08/24/15 Frac 3rd Bone Springs from 9225' MD (8917' TVD) to 13125' MD (8974' TVD). 532 holes, 0.42" EHD, 60 degree phasing. Frac in 14 stages w/5,283,633 gals slickwater, carrying 3,681,335# 100 Mesh sand & 1,826,056# 30/50 sand & 387,472# 30/50 Oil Plus sand.

Flowback well for cleanup.

09/09/15 PWOL for initial sales.

09/11/15 RIH w/2 7/8" L80 6.5# tbg & GLV's to 8307'

Bond on file: NM1693 nationwide & NMB000919

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 17 2015

RECEIVED

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #316111 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad**

Name (Printed/Typed) JACKIE LATHAN

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 09/11/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Pending BLM approvals will
subsequently be reviewed
and scanned *CS*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ment or agency of the United

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

SEP 17 2015

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator MEWBOURNE OIL COMPANY			8. Lease Name and Well No. DERRINGER 18 B3DA FEDERAL 2H		
3. Address PO BOX 5270 HOBBS, NM 88241			9. API Well No. 30-015-42969		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNW 665FNL 150FWL At top prod interval reported below NWNW 552FNL 785FWL At total depth NENE 390FNL 333FEL			10. Field and Pool, or Exploratory RUSSELL BONE SPRING		
14. Date Spudded 07/09/2015			15. Date T.D. Reached 08/03/2015		
16. Date Completed ☐ D & A ☒ Ready to Prod. 09/09/2015			17. Elevations (DF, KB, RT, GL)* 3261 GL		
18. Total Depth: MD 13168 TVD 8974			19. Plug Back T.D.: MD 13125 TVD 8974		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE		
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)					

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	20.000 J55	94.0	0	375	0	750	217	0	0
17.500	13.375 J55	54.5	0	1200	0	900	265	0	0
12.250	9.625 J55	36.0	0	3026	0	900	283	0	0
8.750	7.000 P110	26.0	0	9168	0	1100	377	0	0
6.125	4.500 P110	13.5	8326	13168	0	250	131	0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8307							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	5460	13168	9225 TO 13125	0.420	532	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
9225 TO 13125	5,283,633 GALS SLICKWATER, CARRYING 3,681,335# 100 MESH SAND & 1,826,056# 30/50 SAND & 387,472#

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/09/2015	09/10/2015	17	→	327.0	692.0	1297.0	45.6	0.77	FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/48	SI	1200.0	→	744	977	1831	1313	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

Pending BLM approvals will
subsequently be reviewed
and scanned
LRO

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #316117 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
DELAWARE BONE SPRING	3190 5460	5460 13168	OIL, WATER, GAS OIL, WATER, GAS	TOP OF SALT BASE OF SALT YATES CAPITAN REEF DELAWARE BONE SPRING	515 655 910 1145 3190 5460

32. Additional remarks (include plugging procedure):

Did not log. Had an exemption from Zeke Salaz.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other: \

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #316117 Verified by the BLM Well Information System.
For MEWBOURNE OIL COMPANY, sent to the Carlsbad

Name (please print) JACKIE LATHAN

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 09/11/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 17 2015

RECEIVED



Mewbourne Oil Company
Project: Eddy County, NM
Site: Derringer 18 B3DA Federal No. 2H
Well: No. 2H
Wellbore: Original Hole
Design: Plan #2
Lat: 32° 34' 43.777 N
Long: 104° 7' 15.985 W
Pad GL: 3261.00
KB: WELL @ 3281.00usft (Original Well Elev)



SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl
8240.00	2.00	108.37	8237.11	93.78	61.62	0.00	0.00	67.12
8437.23	2.00	108.37	8434.21	91.39	68.82	0.00	0.00	74.16
9183.90	89.07	87.62	8916.00	105.29	538.11	12.00	-20.78	543.44
13188.12	89.07	87.62	8981.00	271.71	4538.35	0.00	0.00	4546.47

WELL DETAILS: No. 2H

+N-S	+E-W	Northing	Ground Level:	Latitude	Longitude
0.00	0.00	574354.20	3261.00	32° 34' 43.777 N	104° 7' 15.985 W
			Easting		
			565372.50		

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
No. 2H TD/BHL	8961.00	271.71	4538.35	574825.91	565910.85	32° 34' 46.373 N	104° 6' 22.838 W

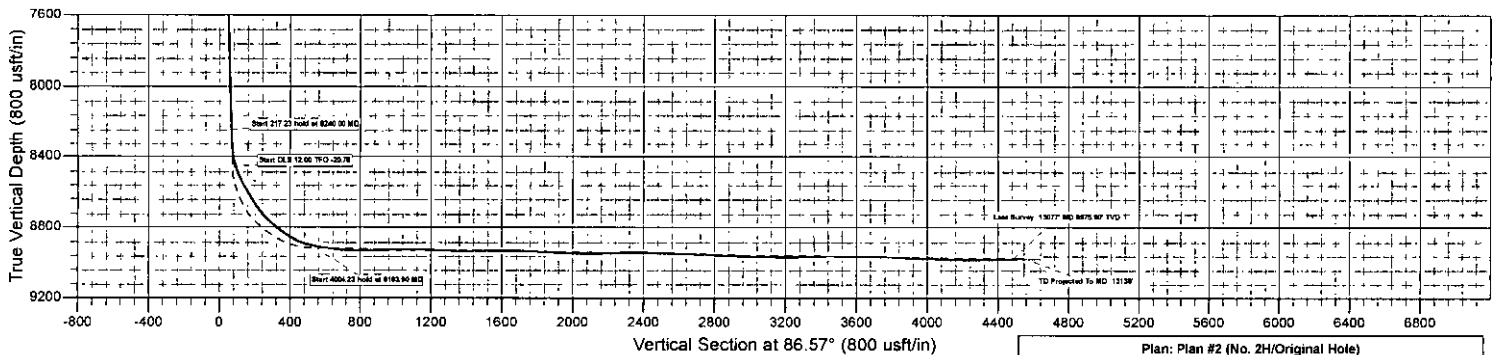
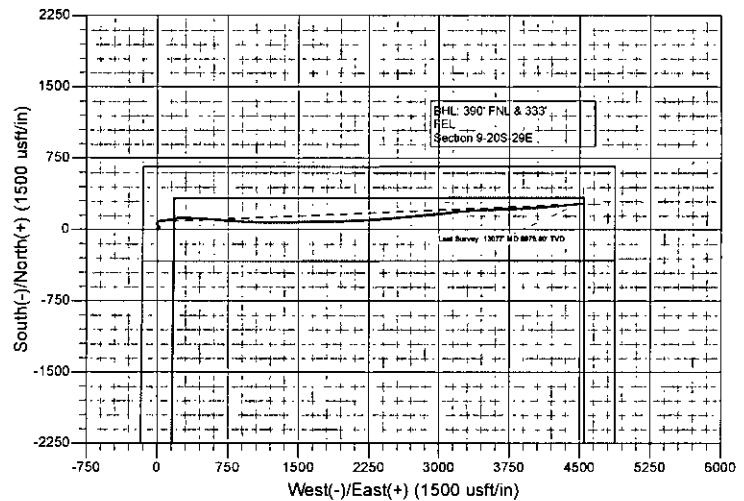
PROJECT DETAILS: Eddy County, NM

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.11°
Magnetic North: 7.25°
Magnetic Field
Strength: 48364.5nT
Dip Angle: 60.32°
Date: 2015/07/10
Model: IGRF2010

NOTE: All Lease lines and Hard lines are estimates only and are subject to the customers' approval.



Plan: Plan #2 (No. 2H/Original Hole)

Created By: Chris LeMaster Date: 8:35, September 11 2015

Provide signature page for Survey within 30 days in order to retain C104 approval

Inwell
EOW Report

RECEIVED



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 2H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3281.00usft (Original Well Elev)
Site:	Derringer 18 B3DA Federal No. 2H	MD Reference:	WELL @ 3281.00usft (Original Well Elev)
Well:	No. 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Derringer 18 B3DA Federal No. 2H		
Site Position:		Northing:	574,354.20 usft
From:	Map	Easting:	565,372.50 usft
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16"
		Latitude:	32° 34' 43.777 N
		Longitude:	104° 7' 15.985 W
		Grid Convergence:	0.11 °

Well	No. 2H		
Well Position	+N/-S	0.00 usft	Northing: 574,354.20 usft
	+E/-W	0.00 usft	Easting: 565,372.50 usft
Position Uncertainty	1.10 usft	Wellhead Elevation:	usft
		Latitude:	32° 34' 43.777 N
		Longitude:	104° 7' 15.985 W
		Ground Level:	3,261.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/10/15	7.37	60.32	48,364

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	86.57	

Survey Program	Date 08/04/15				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	8,240.00	Gyro (Original Hole)	CB-GYRO-MS	Camera based gyro multishot	
8,361.00	13,138.00	MWD (Original Hole)	MWD	MWD - Standard	

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.51	276.11	100.00	-0.44	0.05	-0.44	0.51	
200.00	0.48	350.50	200.00	-0.92	0.51	-0.95	0.60	
300.00	0.51	265.48	299.99	-1.41	0.89	-1.47	0.67	
400.00	0.66	69.67	399.99	-1.31	1.05	-1.37	1.16	
500.00	0.94	7.12	499.98	-0.60	2.07	-0.73	0.86	
600.00	1.29	72.99	599.97	0.64	3.21	0.45	1.25	
700.00	1.75	97.63	699.93	3.23	3.33	3.04	0.79	
800.00	1.63	88.97	799.89	6.15	3.16	5.97	0.28	
900.00	1.54	66.56	899.85	8.84	3.72	8.63	0.62	
1,000.00	1.58	331.25	999.83	9.51	5.46	9.20	2.31	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 2H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3281.00usft (Original Well Elev)
Site:	Derringer 18 B3DA Federal No. 2H	MD Reference:	WELL @ 3281.00usft (Original Well Elev)
Well:	No. 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
1,100.00	1.65	328.13	1,099.79	8.23	7.89	7.78	0.11
1,200.00	1.30	313.60	1,199.76	6.78	9.90	6.19	0.51
1,300.00	1.23	286.25	1,299.73	4.99	10.98	4.34	0.60
1,400.00	0.87	314.33	1,399.72	3.47	11.81	2.77	0.62
1,500.00	0.72	279.97	1,499.71	2.35	12.45	1.61	0.49
1,600.00	1.17	320.18	1,599.69	1.13	13.34	0.33	0.77
1,700.00	1.36	29.09	1,699.68	1.16	15.16	0.26	1.44
1,800.00	2.42	48.50	1,799.62	3.46	17.60	2.42	1.22
1,900.00	2.47	48.82	1,899.53	6.83	20.42	5.62	0.05
2,000.00	2.40	41.91	1,999.44	10.02	23.40	8.64	0.30
2,100.00	2.22	57.10	2,099.36	13.20	26.01	11.66	0.64
2,200.00	2.05	64.73	2,199.29	16.55	27.82	14.91	0.33
2,300.00	1.60	63.65	2,299.24	19.49	29.20	17.78	0.45
2,400.00	1.53	58.61	2,399.20	21.96	30.52	20.17	0.15
2,500.00	1.20	88.86	2,499.17	24.18	31.24	22.35	0.78
2,600.00	1.01	97.58	2,599.16	26.09	31.14	24.27	0.25
2,700.00	1.00	107.18	2,699.14	27.78	30.77	25.98	0.17
2,800.00	1.21	124.38	2,799.12	29.43	29.91	27.69	0.39
2,900.00	1.44	332.19	2,899.11	29.74	30.43	27.97	2.57
3,000.00	1.15	125.95	2,999.10	30.00	30.95	28.20	2.52
3,100.00	1.26	102.42	3,099.08	31.83	30.12	30.08	0.50
3,200.00	1.23	274.93	3,199.07	31.83	29.98	30.09	2.48
3,300.00	1.25	288.45	3,299.05	29.75	30.42	27.98	0.29
3,400.00	1.34	294.17	3,399.02	27.71	31.24	25.88	0.16
3,500.00	1.27	300.16	3,499.00	25.75	32.28	23.86	0.15
3,600.00	1.50	293.59	3,598.97	23.66	33.36	21.70	0.28
3,700.00	1.53	304.08	3,698.93	21.43	34.63	19.40	0.28
3,800.00	1.49	309.77	3,798.90	19.43	36.21	17.29	0.16
3,900.00	1.81	312.66	3,898.86	17.38	38.11	15.13	0.33
4,000.00	1.93	313.87	3,998.80	15.15	40.35	12.75	0.13
4,100.00	1.91	318.47	4,098.75	12.97	42.76	10.44	0.16
4,200.00	1.81	318.46	4,198.70	10.97	45.19	8.28	0.10
4,300.00	1.64	332.55	4,298.65	9.41	47.64	6.58	0.46
4,400.00	1.99	326.02	4,398.60	7.95	50.35	4.95	0.41
4,500.00	2.11	338.26	4,498.54	6.49	53.50	3.29	0.45
4,600.00	2.57	340.11	4,598.45	5.28	57.32	1.85	0.47
4,700.00	2.59	345.80	4,698.35	4.22	61.62	0.53	0.26
4,800.00	2.48	349.38	4,798.25	3.52	65.94	-0.42	0.19
4,900.00	1.50	355.66	4,898.19	3.23	69.37	-0.92	1.00
5,000.00	1.35	359.79	4,998.16	3.28	71.85	-1.02	0.18
5,100.00	1.47	9.17	5,098.13	3.62	74.30	-0.82	0.26
5,200.00	1.57	23.35	5,198.10	4.52	76.82	-0.07	0.39
5,300.00	1.65	44.68	5,298.06	6.21	79.10	1.48	0.60
5,400.00	1.82	58.13	5,398.01	8.68	80.96	3.84	0.44

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 2H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3281.00usft (Original Well Elev)
Site:	Derringer 18 B3DA Federal No. 2H	MD Reference:	WELL @ 3281.00usft (Original Well Elev)
Well:	No. 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
5,500.00	1.89	63.89	5,497.96	11.60	82.53	6.67	0.20
5,600.00	1.73	51.46	5,597.91	14.35	84.19	9.33	0.42
5,700.00	1.66	68.40	5,697.87	16.96	85.67	11.86	0.50
5,800.00	1.64	73.45	5,797.83	19.73	86.61	14.58	0.15
5,900.00	1.39	72.63	5,897.79	22.30	87.38	17.11	0.25
6,000.00	1.71	61.91	5,997.76	24.84	88.44	19.58	0.43
6,100.00	1.43	69.27	6,097.72	27.39	89.59	22.06	0.34
6,200.00	1.49	71.06	6,197.69	29.83	90.45	24.46	0.08
6,300.00	1.36	70.01	6,297.65	32.22	91.28	26.81	0.13
6,400.00	1.30	54.44	6,397.63	34.32	92.34	28.84	0.37
6,500.00	1.09	66.00	6,497.61	36.17	93.39	30.64	0.32
6,600.00	0.81	67.62	6,597.59	37.73	94.05	32.16	0.28
6,700.00	0.56	319.82	6,697.59	38.10	94.69	32.50	1.12
6,800.00	1.13	11.10	6,797.58	38.06	96.03	32.37	0.89
6,900.00	1.07	7.23	6,897.56	38.48	97.92	32.68	0.10
7,000.00	1.05	21.94	6,997.54	39.04	99.70	33.14	0.27
7,100.00	0.95	31.97	7,097.53	39.92	101.25	33.92	0.20
7,200.00	1.16	60.58	7,197.51	41.31	102.45	35.24	0.56
7,300.00	1.25	87.38	7,297.49	43.31	103.00	37.21	0.57
7,400.00	1.25	104.54	7,397.47	45.44	102.78	39.36	0.37
7,500.00	1.33	111.93	7,497.44	47.52	102.07	41.49	0.18
7,600.00	1.71	107.76	7,597.41	49.96	101.18	43.99	0.40
7,700.00	1.57	101.69	7,697.36	52.68	100.45	46.75	0.22
7,800.00	1.40	100.81	7,797.33	55.18	99.94	49.29	0.17
7,900.00	1.55	116.45	7,897.30	57.54	99.11	51.70	0.43
8,000.00	2.03	113.84	7,997.25	60.29	97.79	54.53	0.49
8,100.00	1.93	126.17	8,097.19	63.16	96.08	57.51	0.44
8,200.00	1.93	117.52	8,197.13	65.90	94.31	60.37	0.29
8,240.00	2.00	108.37	8,237.11	67.13	93.78	61.62	0.80
8,361.00	4.30	72.00	8,357.93	73.48	94.52	67.94	2.43
8,393.00	9.50	74.30	8,389.69	77.22	95.60	71.63	16.27
8,425.00	14.80	76.40	8,420.96	83.83	97.28	78.15	16.62
8,456.00	18.90	74.90	8,450.62	92.65	99.52	86.85	13.30
8,488.00	21.40	73.50	8,480.66	103.41	102.53	97.45	7.96
8,520.00	23.40	74.00	8,510.25	115.30	105.94	109.16	6.28
8,551.00	25.70	76.20	8,538.44	127.92	109.24	121.61	7.98
8,583.00	28.10	77.90	8,566.98	142.20	112.47	135.72	7.88
8,614.00	30.50	78.60	8,594.01	157.21	115.56	150.57	7.82
8,646.00	32.70	77.70	8,621.26	173.80	119.01	166.98	7.03
8,677.00	34.90	77.20	8,647.02	190.82	122.75	183.81	7.15
8,709.00	36.80	81.50	8,672.96	209.41	126.20	202.22	9.86
8,741.00	38.20	85.60	8,698.35	228.85	128.38	221.57	8.94
8,772.00	40.30	88.50	8,722.36	248.46	129.37	241.15	8.99
8,804.00	42.70	91.70	8,746.33	269.61	129.32	262.35	10.01
8,835.00	46.40	90.70	8,768.42	291.29	128.87	284.08	12.15

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 2H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3281.00usft (Original Well Elev)
Site:	Derringer 18 B3DA Federal No. 2H	MD Reference:	WELL @ 3281.00usft (Original Well Elev)
Well:	No. 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
8,868.00	50.00	90.10	8,790.41	315.83	128.71	308.68	10.99
8,900.00	53.00	88.70	8,810.33	340.84	128.97	333.72	9.98
8,931.00	55.80	89.00	8,828.37	366.02	129.48	358.92	9.07
8,963.00	59.00	92.00	8,845.61	392.91	129.23	385.87	12.74
8,994.00	62.50	94.00	8,860.76	419.78	127.81	412.87	12.61
9,026.00	68.00	94.30	8,874.15	448.57	125.70	441.84	17.21
9,057.00	72.80	93.70	8,884.55	477.52	123.67	470.97	15.59
9,089.00	77.50	93.50	8,892.75	508.21	121.73	501.83	14.70
9,105.00	78.90	93.50	8,896.02	523.76	120.77	517.46	8.75
9,142.00	79.20	95.40	8,903.05	559.74	117.95	553.67	5.11
9,174.00	79.60	97.20	8,908.93	590.74	114.50	584.94	5.67
9,205.00	81.90	97.00	8,913.92	620.82	110.72	615.30	7.45
9,237.00	83.80	96.30	8,917.90	652.08	107.05	646.83	6.32
9,269.00	85.50	94.90	8,920.88	683.54	103.94	678.54	6.87
9,300.00	86.30	94.10	8,923.10	714.17	101.51	709.37	3.64
9,332.00	86.40	93.60	8,925.14	745.85	99.37	741.23	1.59
9,364.00	89.30	92.50	8,926.34	777.61	97.67	773.16	9.69
9,395.00	90.60	92.70	8,926.36	808.44	96.26	804.12	4.24
9,427.00	91.40	92.50	8,925.80	840.26	94.81	836.09	2.58
9,458.00	91.60	92.70	8,924.99	871.08	93.40	867.04	0.91
9,490.00	91.20	92.80	8,924.21	902.88	91.87	899.00	1.29
9,553.00	91.80	92.80	8,922.56	965.49	88.79	961.90	0.95
9,617.00	90.30	92.10	8,921.39	1,029.14	86.06	1,025.83	2.59
9,680.00	89.90	91.80	8,921.28	1,091.86	83.91	1,088.79	0.79
9,743.00	89.60	91.40	8,921.55	1,154.62	82.15	1,151.77	0.79
9,807.00	86.80	89.50	8,923.56	1,218.43	81.65	1,215.72	5.29
9,870.00	87.00	89.30	8,926.97	1,281.26	82.31	1,278.63	0.45
9,933.00	87.70	88.70	8,929.88	1,344.14	83.41	1,341.55	1.46
9,997.00	90.30	88.90	8,931.00	1,408.07	84.75	1,405.52	4.07
10,060.00	92.80	89.00	8,929.30	1,470.99	85.90	1,468.48	3.97
10,123.00	92.30	88.50	8,926.49	1,533.88	87.27	1,531.40	1.12
10,155.00	89.80	88.90	8,925.91	1,565.85	88.00	1,563.39	7.91
10,187.00	89.30	88.90	8,926.16	1,597.82	88.61	1,595.38	1.56
10,218.00	88.80	89.00	8,926.67	1,628.79	89.18	1,626.37	1.64
10,250.00	88.80	89.20	8,927.34	1,660.76	89.68	1,658.36	0.62
10,281.00	88.10	89.00	8,928.18	1,691.71	90.17	1,689.34	2.35
10,313.00	86.90	89.20	8,929.58	1,723.65	90.67	1,721.31	3.80
10,344.00	87.30	89.30	8,931.15	1,754.58	91.08	1,752.27	1.33
10,376.00	85.80	89.10	8,933.07	1,786.49	91.52	1,784.21	4.73
10,408.00	86.60	89.30	8,935.19	1,818.38	91.97	1,816.13	2.58
10,439.00	87.70	89.10	8,936.73	1,849.31	92.40	1,847.09	3.61
10,503.00	89.30	88.40	8,938.41	1,913.24	93.80	1,911.05	2.73
10,566.00	87.30	88.90	8,940.28	1,976.17	95.28	1,974.00	3.27
10,629.00	88.80	87.50	8,942.42	2,039.10	97.26	2,036.93	3.26

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 2H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3281.00usft (Original Well Elev)
Site:	Derringer 18 B3DA Federal No. 2H	MD Reference:	WELL @ 3281.00usft (Original Well Elev)
Well:	No. 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
10,693.00	89.10	87.00	8,943.59	2,103.09	100.33	2,100.85	0.91
10,756.00	92.10	87.10	8,942.94	2,166.07	103.57	2,163.75	4.76
10,819.00	92.80	86.50	8,940.24	2,229.01	107.09	2,226.60	1.46
10,851.00	91.80	86.30	8,938.96	2,260.99	109.09	2,258.51	3.19
10,883.00	92.20	86.00	8,937.84	2,292.97	111.24	2,290.41	1.56
10,914.00	91.70	85.80	8,936.79	2,323.95	113.46	2,321.32	1.74
10,946.00	88.60	85.60	8,936.70	2,355.94	115.85	2,353.22	9.71
10,977.00	87.80	85.20	8,937.68	2,386.92	118.34	2,384.11	2.88
11,009.00	88.00	85.20	8,938.85	2,418.89	121.02	2,415.97	0.62
11,041.00	88.50	85.00	8,939.83	2,450.86	123.75	2,447.84	1.68
11,072.00	88.60	84.90	8,940.61	2,481.84	126.48	2,478.71	0.46
11,104.00	87.70	85.00	8,941.64	2,513.81	129.29	2,510.57	2.83
11,135.00	86.90	85.00	8,943.10	2,544.76	131.99	2,541.42	2.58
11,167.00	87.80	84.90	8,944.58	2,576.71	134.80	2,573.26	2.83
11,199.00	88.20	84.80	8,945.70	2,608.68	137.67	2,605.11	1.29
11,230.00	88.90	84.60	8,946.48	2,639.65	140.54	2,635.97	2.35
11,294.00	88.20	85.00	8,948.10	2,703.60	146.34	2,699.68	1.26
11,357.00	87.50	85.40	8,950.47	2,766.54	151.60	2,762.42	1.28
11,421.00	87.70	85.00	8,953.15	2,830.47	156.95	2,826.14	0.70
11,484.00	85.80	84.10	8,956.72	2,893.32	162.93	2,888.75	3.34
11,547.00	88.30	83.90	8,959.96	2,956.17	169.50	2,951.32	3.98
11,610.00	88.70	84.20	8,961.61	3,019.09	176.03	3,013.95	0.79
11,642.00	87.90	84.20	8,962.56	3,051.05	179.26	3,045.78	2.50
11,674.00	87.60	84.30	8,963.82	3,082.99	182.47	3,077.59	0.99
11,705.00	90.00	84.60	8,964.47	3,113.96	185.46	3,108.44	7.80
11,737.00	88.90	84.70	8,964.77	3,145.94	188.45	3,140.29	3.45
11,769.00	89.00	84.10	8,965.36	3,177.92	191.57	3,172.14	1.90
11,801.00	90.30	84.90	8,965.55	3,209.89	194.64	3,203.99	4.77
11,832.00	92.10	85.60	8,964.90	3,240.88	197.20	3,234.87	6.23
11,864.00	91.50	85.30	8,963.90	3,272.85	199.74	3,266.76	2.10
11,896.00	92.30	85.20	8,962.84	3,304.83	202.39	3,298.63	2.52
11,927.00	92.30	85.30	8,961.59	3,335.79	204.95	3,329.50	0.32
11,959.00	91.80	85.30	8,960.45	3,367.77	207.57	3,361.37	1.56
11,991.00	90.00	86.70	8,959.95	3,399.76	209.81	3,393.28	7.13
12,023.00	89.10	87.90	8,960.20	3,431.75	211.31	3,425.25	4.69
12,054.00	88.50	87.80	8,960.85	3,462.74	212.48	3,456.22	1.96
12,086.00	90.20	88.10	8,961.21	3,494.73	213.62	3,488.20	5.39
12,118.00	90.10	88.10	8,961.13	3,526.72	214.68	3,520.18	0.31
12,150.00	89.80	88.10	8,961.16	3,558.70	215.74	3,552.16	0.94
12,181.00	90.40	87.80	8,961.10	3,589.69	216.85	3,583.14	2.16
12,213.00	88.60	87.60	8,961.38	3,621.69	218.14	3,615.11	5.66
12,245.00	88.50	87.70	8,962.19	3,653.67	219.45	3,647.07	0.44
12,276.00	89.80	87.90	8,962.65	3,684.66	220.64	3,678.05	4.24
12,308.00	88.80	87.80	8,963.04	3,716.65	221.84	3,710.02	3.14

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 2H
Project:	Eddy County, NM	TVD Reference:	WELL @ 3281.00usft (Original Well Elev)
Site:	Derringer 18 B3DA Federal No. 2H	MD Reference:	WELL @ 3281.00usft (Original Well Elev)
Well:	No. 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	
12,339.00	87.70	87.70	8,963.99	3,747.63	223.05	3,740.98	3.56	
12,403.00	87.30	87.60	8,966.78	3,811.55	225.68	3,804.87	0.64	
12,466.00	86.60	87.70	8,970.13	3,874.45	228.26	3,867.73	1.12	
12,529.00	86.00	87.70	8,974.20	3,937.31	230.78	3,930.54	0.95	
12,592.00	91.20	87.40	8,975.74	4,000.26	233.47	3,993.45	8.27	
12,656.00	87.60	86.10	8,976.41	4,064.24	237.10	4,057.33	5.98	
12,720.00	87.70	85.50	8,979.03	4,128.18	241.78	4,121.10	0.95	
12,783.00	89.30	85.30	8,980.68	4,191.15	246.83	4,183.87	2.56	
12,846.00	89.90	84.20	8,981.12	4,254.11	252.60	4,246.61	1.99	
12,910.00	91.50	84.80	8,980.34	4,318.06	258.73	4,310.31	2.67	
12,973.00	91.70	84.30	8,978.58	4,381.00	264.71	4,373.00	0.85	
13,036.00	91.40	84.20	8,976.87	4,443.93	271.02	4,435.66	0.50	
13,077.00	91.60	84.00	8,975.80	4,484.87	275.23	4,476.43	0.69	
Last Survey: 13077' MD 8975.80' TVD								
13,138.00	91.60	84.00	8,974.10	4,545.79	281.61	4,537.07	0.00	
TD Projected To MD: 13138' - No. 2H TD/PBHL								

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,077.00	8,975.80	275.23	4,476.43	Last Survey: 13077' MD 8975.80' TVD
13,138.00	8,974.10	281.61	4,537.07	TD Projected To MD: 13138'

Checked By: _____	Approved By: _____	Date: _____
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