

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.*Lease Serial No.
NM23765

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No. **316820**
BRUSHY DRAW 1 W2PA FEDERAL 1H9. API Well No.
30-015-43914-00-X110. Field and Pool or Exploratory Area
WILDCAT11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
MEWBOURNE OIL COMPANYContact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com3a. Address
P O BOX 5270
HOBBS, NM 882413b. Phone No. (include area code)
Ph: 575-393-59054. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 12 T26S R29E NENE 450FNL 750FEL**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | Change to Original A |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | PD |

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 recompleat 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mewbourne Oil Company has an approved APD for the above well. Mewbourne requests approval to make the following changes:

- ✓1) Change well name to ~~Buffalo Trace 1/36 W4PA Fed Com #1H~~ **322234**
- ✓2) Change pool to 98220.
- ✓3) Change well to 2 mile lateral & TVD to 10,489'.
- ✓4) Change BHL to ~~330' FNL & 990' FEL~~ Sec 36, T25S, R29E.
- ✓5) Change csg depth and cement to suit new plan & add DV tool.
- ✓6) Change wellhead to multi-bowl type wellhead.
- ✓7) Request variance for the use of a flexible choke line.

RECEIVED

AUG 07 2018

Please see attachments for C-102, wellhead schematic, new drilling plan, casing & cement

DISTRICT II-ARTESIA O.C.D.

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

Electronic Submission #413067 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/04/2018 (18PP1585SE)

Name (Printed/Typed) ROBERT TALLEY

Title ENGINEER

Signature (Electronic Submission)

Date 05/01/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

/s/ Jonathon Shepard

Approved By

Title **Petroleum Engineer**
Carlsbad Field Office

JUL 26 2018

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.

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Rev 8-14-18.

Additional data for EC transaction #413067 that would not fit on the form

32. Additional remarks, continued

information.

Please contact Robert Talley with any questions.

Mewbourne Oil Company, Buffalo Trace 1/36 W1PA Fed Com #1H
Sec 12, T26S, R29E
SL: 450' FNL & 750' FEL (12)
BHL: 330' FNL & 990' FEL (36)

1. Geologic Formations

TVD of target	10489'	Pilot hole depth	NA
MD at TD:	21011'	Deepest expected fresh water:	175'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	830		
Top of Salt	1160		
Castile			
Tansill	3200		
Lamar	3390	Oil/Gas	
Bell Canyon	3440	Oil/Gas	
Cherry Canyon			
Manzanita Marker			
Brushy Canyon			
Bone Spring	7160	Oil/Gas	
1 st Bone Spring Sand			
2 nd Bone Spring Sand			
3 rd Bone Spring Sand			
Abo			
Wolfcamp	10375	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Company, Buffalo Trace 1/36 W1PA Fed Com #1H

Sec 12, T26S, R29E

SL: 450' FNL & 750' FEL (12)

BHL: 330' FNL & 990' FEL (36)

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	905'	13.375"	48	H40	STC	1.86	4.18	7.41	12.45
12.25"	0'	3315'	9.625"	36	J55	LTC	1.17	2.04	3.80	4.73
8.75"	0'	10800'	7"	26	HCP110	LTC	1.63	2.08	2.28	2.96
6.125"	9920'	21011'	4.5"	13.5	P110	LTC	1.63	1.90	2.26	2.82
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes, attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not, provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Buffalo Trace 1/36 W1PA Fed Com #1H

Sec 12, T26S, R29E

SL: 450' FNL & 750' FEL (12)

BHL: 330' FNL & 990' FEL (36)

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	470	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	525	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod. Stg 1	390	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
ECP/DV Tool @ 3960'						
Prod. Stg 2	20	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	450	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	3115'	25%
Liner	9920'	25%

Mewbourne Oil Company, Buffalo Trace 1/36 W1PA Fed Com #1H

Sec 12, T26S, R29E

SL: 450' FNL & 750' FEL (12)

BHL: 330' FNL & 990' FEL (36)

4. Pressure Control Equipment

	Variance: None
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BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	5M	Annular	X	2500#
			Blind Ram	X	5000#
			Pipe Ram	X	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • Provide description here: See attached schematic.

Mewbourne Oil Company, Buffalo Trace 1/36 W1PA Fed Com #1H

Sec 12, T26S, R29E

SL: 450' FNL & 750' FEL (12)

BHL: 330' FNL & 990' FEL (36)

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	905	FW Gel	8.6-8.8	28-34	N/C
905	3315	Saturated Brine	10.0	28-34	N/C
3315	9920	Cut Brine	8.6-9.3	28-34	N/C
9920	21011	OBM	10.0-12.0	30-40	<10cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (9920') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	Gamma Ray	9920' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Company, Buffalo Trace 1/36 W1PA Fed Com #1H

Sec 12, T26S, R29E

SL: 450' FNL & 750' FEL (12)

BHL: 330' FNL & 990' FEL (36)

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at Deepest TVD	6545 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H ₂ S is Present
X	H ₂ S Plan Attached

8. Other facets of operation

Is this a walking operation? If yes, describe.

Will be pre-setting casing? If yes, describe.

Attachments

___ Directional Plan

___ Other, describe

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Buffalo Trace 1-36 W1PA Fed Com #1H

Sec 12, T26S, R29E

SL: 450' FNL & 750' FEL (12)

BHL: 330' FNL & 990' FEL (36)

Plan: Design #1

Standard Planning Report

01 May, 2018

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Buffalo Trace 1-36 W1PA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3069.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3069.0usft (Original Well Elev)
Site:	Buffalo Trace 1-36 W1PA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FEL (36)		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Buffalo Trace 1-36 W1PA Fed Com #1H			
Site Position:		Northing:	386,926.00 usft	Latitude: 32.0631029
From:	Map	Easting:	665,768.00 usft	Longitude: -103.9316553
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.21 °

Well	Sec 12, T26S, R29E			
Well Position	+N/-S	0.0 usft	Northing:	386,926.00 usft
	+E/-W	0.0 usft	Easting:	665,768.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	3,069.0 usft
			Ground Level:	3,042.0 usft

Wellbore	BHL: 330' FNL & 990' FEL (36)				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	5/1/2018	6.89	59.81	47,799

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	358.42

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,390.0	0.00	0.00	3,390.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,497.1	2.14	268.81	3,497.1	0.0	-2.0	2.00	2.00	0.00	268.81	
9,813.4	2.14	268.81	9,808.9	-5.0	-238.0	0.00	0.00	0.00	0.00	
9,920.5	0.00	0.00	9,916.0	-5.0	-240.0	2.00	-2.00	0.00	180.00	KOP @ 9916'
10,820.5	90.00	359.70	10,489.0	568.0	-243.0	10.00	10.00	0.00	-0.30	
21,011.7	90.00	359.70	10,489.0	10,759.0	-297.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 990'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Buffalo Trace 1-36 W1PA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3069.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3069.0usft (Original Well Elev)
Site:	Buffalo Trace 1-36 W1PA Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FEL (36)		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 450' FNL & 750' FEL (12)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,390.0	0.00	0.00	3,390.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.20	268.81	3,400.0	0.0	0.0	0.0	2.00	2.00	0.00
3,497.1	2.14	268.81	3,497.1	0.0	-2.0	0.0	2.00	2.00	0.00
3,500.0	2.14	268.81	3,500.0	0.0	-2.1	0.0	0.00	0.00	0.00
3,600.0	2.14	268.81	3,599.9	-0.1	-5.8	0.0	0.00	0.00	0.00
3,700.0	2.14	268.81	3,699.8	-0.2	-9.6	0.1	0.00	0.00	0.00
3,800.0	2.14	268.81	3,799.8	-0.3	-13.3	0.1	0.00	0.00	0.00
3,900.0	2.14	268.81	3,899.7	-0.4	-17.1	0.1	0.00	0.00	0.00
4,000.0	2.14	268.81	3,999.6	-0.4	-20.8	0.1	0.00	0.00	0.00
4,100.0	2.14	268.81	4,099.6	-0.5	-24.5	0.2	0.00	0.00	0.00
4,200.0	2.14	268.81	4,199.5	-0.6	-28.3	0.2	0.00	0.00	0.00
4,300.0	2.14	268.81	4,299.4	-0.7	-32.0	0.2	0.00	0.00	0.00
4,400.0	2.14	268.81	4,399.3	-0.7	-35.7	0.2	0.00	0.00	0.00
4,500.0	2.14	268.81	4,499.3	-0.8	-39.5	0.3	0.00	0.00	0.00
4,600.0	2.14	268.81	4,599.2	-0.9	-43.2	0.3	0.00	0.00	0.00
4,700.0	2.14	268.81	4,699.1	-1.0	-46.9	0.3	0.00	0.00	0.00
4,800.0	2.14	268.81	4,799.1	-1.1	-50.7	0.3	0.00	0.00	0.00
4,900.0	2.14	268.81	4,899.0	-1.1	-54.4	0.4	0.00	0.00	0.00
5,000.0	2.14	268.81	4,998.9	-1.2	-58.2	0.4	0.00	0.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Buffalo Trace 1-36 W1PA Fed Com #1H
 Well: Sec 12, T26S, R29E
 Wellbore: BHL: 330' FNL & 990' FEL (36)
 Design: Design #1

Local Co-ordinate Reference: Site Buffalo Trace 1-36 W1PA Fed Com #1H
 TVD Reference: WELL @ 3069.0usft (Original Well Elev)
 MD Reference: WELL @ 3069.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	2.14	268.81	5,098.9	-1.3	-61.9	0.4	0.00	0.00	0.00
5,200.0	2.14	268.81	5,198.8	-1.4	-65.6	0.4	0.00	0.00	0.00
5,300.0	2.14	268.81	5,298.7	-1.4	-69.4	0.5	0.00	0.00	0.00
5,400.0	2.14	268.81	5,398.6	-1.5	-73.1	0.5	0.00	0.00	0.00
5,500.0	2.14	268.81	5,498.6	-1.6	-76.8	0.5	0.00	0.00	0.00
5,600.0	2.14	268.81	5,598.5	-1.7	-80.6	0.5	0.00	0.00	0.00
5,700.0	2.14	268.81	5,698.4	-1.8	-84.3	0.6	0.00	0.00	0.00
5,800.0	2.14	268.81	5,798.4	-1.8	-88.0	0.6	0.00	0.00	0.00
5,900.0	2.14	268.81	5,898.3	-1.9	-91.8	0.6	0.00	0.00	0.00
6,000.0	2.14	268.81	5,998.2	-2.0	-95.5	0.6	0.00	0.00	0.00
6,100.0	2.14	268.81	6,098.2	-2.1	-99.3	0.7	0.00	0.00	0.00
6,200.0	2.14	268.81	6,198.1	-2.1	-103.0	0.7	0.00	0.00	0.00
6,300.0	2.14	268.81	6,298.0	-2.2	-106.7	0.7	0.00	0.00	0.00
6,400.0	2.14	268.81	6,397.9	-2.3	-110.5	0.7	0.00	0.00	0.00
6,500.0	2.14	268.81	6,497.9	-2.4	-114.2	0.8	0.00	0.00	0.00
6,600.0	2.14	268.81	6,597.8	-2.5	-117.9	0.8	0.00	0.00	0.00
6,700.0	2.14	268.81	6,697.7	-2.5	-121.7	0.8	0.00	0.00	0.00
6,800.0	2.14	268.81	6,797.7	-2.6	-125.4	0.8	0.00	0.00	0.00
6,900.0	2.14	268.81	6,897.6	-2.7	-129.1	0.9	0.00	0.00	0.00
7,000.0	2.14	268.81	6,997.5	-2.8	-132.9	0.9	0.00	0.00	0.00
7,100.0	2.14	268.81	7,097.5	-2.8	-136.6	0.9	0.00	0.00	0.00
7,200.0	2.14	268.81	7,197.4	-2.9	-140.4	1.0	0.00	0.00	0.00
7,300.0	2.14	268.81	7,297.3	-3.0	-144.1	1.0	0.00	0.00	0.00
7,400.0	2.14	268.81	7,397.2	-3.1	-147.8	1.0	0.00	0.00	0.00
7,500.0	2.14	268.81	7,497.2	-3.2	-151.6	1.0	0.00	0.00	0.00
7,600.0	2.14	268.81	7,597.1	-3.2	-155.3	1.1	0.00	0.00	0.00
7,700.0	2.14	268.81	7,697.0	-3.3	-159.0	1.1	0.00	0.00	0.00
7,800.0	2.14	268.81	7,797.0	-3.4	-162.8	1.1	0.00	0.00	0.00
7,900.0	2.14	268.81	7,896.9	-3.5	-166.5	1.1	0.00	0.00	0.00
8,000.0	2.14	268.81	7,996.8	-3.5	-170.2	1.2	0.00	0.00	0.00
8,100.0	2.14	268.81	8,096.8	-3.6	-174.0	1.2	0.00	0.00	0.00
8,200.0	2.14	268.81	8,196.7	-3.7	-177.7	1.2	0.00	0.00	0.00
8,300.0	2.14	268.81	8,296.6	-3.8	-181.5	1.2	0.00	0.00	0.00
8,400.0	2.14	268.81	8,396.5	-3.9	-185.2	1.3	0.00	0.00	0.00
8,500.0	2.14	268.81	8,496.5	-3.9	-188.9	1.3	0.00	0.00	0.00
8,600.0	2.14	268.81	8,596.4	-4.0	-192.7	1.3	0.00	0.00	0.00
8,700.0	2.14	268.81	8,696.3	-4.1	-196.4	1.3	0.00	0.00	0.00
8,800.0	2.14	268.81	8,796.3	-4.2	-200.1	1.4	0.00	0.00	0.00
8,900.0	2.14	268.81	8,896.2	-4.2	-203.9	1.4	0.00	0.00	0.00
9,000.0	2.14	268.81	8,996.1	-4.3	-207.6	1.4	0.00	0.00	0.00
9,100.0	2.14	268.81	9,096.1	-4.4	-211.3	1.4	0.00	0.00	0.00
9,200.0	2.14	268.81	9,196.0	-4.5	-215.1	1.5	0.00	0.00	0.00
9,300.0	2.14	268.81	9,295.9	-4.6	-218.8	1.5	0.00	0.00	0.00
9,400.0	2.14	268.81	9,395.9	-4.6	-222.6	1.5	0.00	0.00	0.00
9,500.0	2.14	268.81	9,495.8	-4.7	-226.3	1.5	0.00	0.00	0.00
9,600.0	2.14	268.81	9,595.7	-4.8	-230.0	1.6	0.00	0.00	0.00
9,700.0	2.14	268.81	9,695.6	-4.9	-233.8	1.6	0.00	0.00	0.00
9,800.0	2.14	268.81	9,795.6	-4.9	-237.5	1.6	0.00	0.00	0.00
9,813.4	2.14	268.81	9,808.9	-5.0	-238.0	1.6	0.00	0.00	0.00
9,900.0	0.41	268.81	9,895.5	-5.0	-239.9	1.6	2.00	-2.00	0.00
9,920.5	0.00	0.00	9,916.0	-5.0	-240.0	1.6	2.00	-2.00	0.00
KOP @ 9916'									
10,000.0	7.95	359.70	9,995.3	0.5	-240.0	7.1	10.00	10.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Buffalo Trace 1-36 W1PA Fed Com #1H
 Well: Sec 12, T26S, R29E
 Wellbore: BHL: 330' FNL & 990' FEL (36)
 Design: Design #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Site Buffalo Trace 1-36 W1PA Fed Com #1H
 WELL @ 3069.0usft (Original Well Elev)
 WELL @ 3069.0usft (Original Well Elev)
 Grid
 Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.0	17.95	359.70	10,092.6	22.9	-240.1	29.5	10.00	10.00	0.00
10,200.0	27.95	359.70	10,184.6	61.8	-240.4	68.5	10.00	10.00	0.00
10,300.0	37.95	359.70	10,268.4	116.2	-240.6	122.8	10.00	10.00	0.00
10,400.0	47.95	359.70	10,341.5	184.2	-241.0	190.8	10.00	10.00	0.00
10,500.0	57.95	359.70	10,401.7	263.9	-241.4	270.5	10.00	10.00	0.00
10,600.0	67.95	359.70	10,447.1	352.9	-241.9	359.4	10.00	10.00	0.00
10,700.0	77.95	359.70	10,476.4	448.4	-242.4	454.9	10.00	10.00	0.00
10,800.0	87.95	359.70	10,488.6	547.5	-242.9	554.0	10.00	10.00	0.00
10,820.5	90.00	359.70	10,489.0	568.0	-243.0	574.5	10.00	10.00	0.00
10,900.0	90.00	359.70	10,489.0	647.5	-243.5	653.9	0.00	0.00	0.00
11,000.0	90.00	359.70	10,489.0	747.5	-244.0	753.9	0.00	0.00	0.00
11,027.5	90.00	359.70	10,489.0	775.0	-244.1	781.4	0.00	0.00	0.00
FTP: 330' FSL & 990' FEL (1)									
11,100.0	90.00	359.70	10,489.0	847.5	-244.5	853.9	0.00	0.00	0.00
11,200.0	90.00	359.70	10,489.0	947.5	-245.0	953.9	0.00	0.00	0.00
11,300.0	90.00	359.70	10,489.0	1,047.5	-245.6	1,053.8	0.00	0.00	0.00
11,400.0	90.00	359.70	10,489.0	1,147.5	-246.1	1,153.8	0.00	0.00	0.00
11,500.0	90.00	359.70	10,489.0	1,247.5	-246.6	1,253.8	0.00	0.00	0.00
11,600.0	90.00	359.70	10,489.0	1,347.5	-247.2	1,353.8	0.00	0.00	0.00
11,700.0	90.00	359.70	10,489.0	1,447.5	-247.7	1,453.7	0.00	0.00	0.00
11,800.0	90.00	359.70	10,489.0	1,547.4	-248.2	1,553.7	0.00	0.00	0.00
11,900.0	90.00	359.70	10,489.0	1,647.4	-248.8	1,653.7	0.00	0.00	0.00
12,000.0	90.00	359.70	10,489.0	1,747.4	-249.3	1,753.7	0.00	0.00	0.00
12,100.0	90.00	359.70	10,489.0	1,847.4	-249.8	1,853.6	0.00	0.00	0.00
12,200.0	90.00	359.70	10,489.0	1,947.4	-250.3	1,953.6	0.00	0.00	0.00
12,300.0	90.00	359.70	10,489.0	2,047.4	-250.9	2,053.6	0.00	0.00	0.00
12,400.0	90.00	359.70	10,489.0	2,147.4	-251.4	2,153.6	0.00	0.00	0.00
12,500.0	90.00	359.70	10,489.0	2,247.4	-251.9	2,253.5	0.00	0.00	0.00
12,600.0	90.00	359.70	10,489.0	2,347.4	-252.5	2,353.5	0.00	0.00	0.00
12,700.0	90.00	359.70	10,489.0	2,447.4	-253.0	2,453.5	0.00	0.00	0.00
12,800.0	90.00	359.70	10,489.0	2,547.4	-253.5	2,553.5	0.00	0.00	0.00
12,900.0	90.00	359.70	10,489.0	2,647.4	-254.0	2,653.4	0.00	0.00	0.00
13,000.0	90.00	359.70	10,489.0	2,747.4	-254.6	2,753.4	0.00	0.00	0.00
13,100.0	90.00	359.70	10,489.0	2,847.4	-255.1	2,853.4	0.00	0.00	0.00
13,200.0	90.00	359.70	10,489.0	2,947.4	-255.6	2,953.4	0.00	0.00	0.00
13,300.0	90.00	359.70	10,489.0	3,047.4	-256.2	3,053.3	0.00	0.00	0.00
13,400.0	90.00	359.70	10,489.0	3,147.4	-256.7	3,153.3	0.00	0.00	0.00
13,500.0	90.00	359.70	10,489.0	3,247.4	-257.2	3,253.3	0.00	0.00	0.00
13,600.0	90.00	359.70	10,489.0	3,347.4	-257.8	3,353.3	0.00	0.00	0.00
13,700.0	90.00	359.70	10,489.0	3,447.4	-258.3	3,453.2	0.00	0.00	0.00
13,800.0	90.00	359.70	10,489.0	3,547.4	-258.8	3,553.2	0.00	0.00	0.00
13,900.0	90.00	359.70	10,489.0	3,647.4	-259.3	3,653.2	0.00	0.00	0.00
14,000.0	90.00	359.70	10,489.0	3,747.4	-259.9	3,753.2	0.00	0.00	0.00
14,100.0	90.00	359.70	10,489.0	3,847.4	-260.4	3,853.1	0.00	0.00	0.00
14,200.0	90.00	359.70	10,489.0	3,947.4	-260.9	3,953.1	0.00	0.00	0.00
14,300.0	90.00	359.70	10,489.0	4,047.4	-261.5	4,053.1	0.00	0.00	0.00
14,400.0	90.00	359.70	10,489.0	4,147.4	-262.0	4,153.1	0.00	0.00	0.00
14,500.0	90.00	359.70	10,489.0	4,247.4	-262.5	4,253.0	0.00	0.00	0.00
14,600.0	90.00	359.70	10,489.0	4,347.4	-263.0	4,353.0	0.00	0.00	0.00
14,700.0	90.00	359.70	10,489.0	4,447.4	-263.6	4,453.0	0.00	0.00	0.00
14,800.0	90.00	359.70	10,489.0	4,547.4	-264.1	4,553.0	0.00	0.00	0.00
14,900.0	90.00	359.70	10,489.0	4,647.4	-264.6	4,652.9	0.00	0.00	0.00
15,000.0	90.00	359.70	10,489.0	4,747.4	-265.2	4,752.9	0.00	0.00	0.00
15,100.0	90.00	359.70	10,489.0	4,847.4	-265.7	4,852.9	0.00	0.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Buffalo Trace 1-36 W1PA Fed Com #1H
 Well: Sec 12, T26S, R29E
 Wellbore: BHL: 330' FNL & 990' FEL (36)
 Design: Design #1

Local Co-ordinate Reference: Site Buffalo Trace 1-36 W1PA Fed Com #1H
 TVD Reference: WELL @ 3069.0usft (Original Well Elev)
 MD Reference: WELL @ 3069.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,200.0	90.00	359.70	10,489.0	4,947.4	-266.2	4,952.9	0.00	0.00	0.00
15,300.0	90.00	359.70	10,489.0	5,047.4	-266.8	5,052.8	0.00	0.00	0.00
15,400.0	90.00	359.70	10,489.0	5,147.4	-267.3	5,152.8	0.00	0.00	0.00
15,500.0	90.00	359.70	10,489.0	5,247.4	-267.8	5,252.8	0.00	0.00	0.00
15,600.0	90.00	359.70	10,489.0	5,347.4	-268.3	5,352.8	0.00	0.00	0.00
15,700.0	90.00	359.70	10,489.0	5,447.4	-268.9	5,452.7	0.00	0.00	0.00
15,800.0	90.00	359.70	10,489.0	5,547.4	-269.4	5,552.7	0.00	0.00	0.00
15,900.0	90.00	359.70	10,489.0	5,647.4	-269.9	5,652.7	0.00	0.00	0.00
16,000.0	90.00	359.70	10,489.0	5,747.4	-270.5	5,752.7	0.00	0.00	0.00
16,025.6	90.00	359.70	10,489.0	5,773.0	-270.6	5,778.3	0.00	0.00	0.00
PPP-2: 0' FSL & 990' FEL (36)									
16,100.0	90.00	359.70	10,489.0	5,847.4	-271.0	5,852.6	0.00	0.00	0.00
16,200.0	90.00	359.70	10,489.0	5,947.4	-271.5	5,952.6	0.00	0.00	0.00
16,300.0	90.00	359.70	10,489.0	6,047.4	-272.0	6,052.6	0.00	0.00	0.00
16,400.0	90.00	359.70	10,489.0	6,147.4	-272.6	6,152.6	0.00	0.00	0.00
16,500.0	90.00	359.70	10,489.0	6,247.4	-273.1	6,252.5	0.00	0.00	0.00
16,600.0	90.00	359.70	10,489.0	6,347.4	-273.6	6,352.5	0.00	0.00	0.00
16,700.0	90.00	359.70	10,489.0	6,447.4	-274.2	6,452.5	0.00	0.00	0.00
16,800.0	90.00	359.70	10,489.0	6,547.4	-274.7	6,552.5	0.00	0.00	0.00
16,900.0	90.00	359.70	10,489.0	6,647.4	-275.2	6,652.4	0.00	0.00	0.00
17,000.0	90.00	359.70	10,489.0	6,747.4	-275.8	6,752.4	0.00	0.00	0.00
17,100.0	90.00	359.70	10,489.0	6,847.4	-276.3	6,852.4	0.00	0.00	0.00
17,200.0	90.00	359.70	10,489.0	6,947.4	-276.8	6,952.4	0.00	0.00	0.00
17,300.0	90.00	359.70	10,489.0	7,047.4	-277.3	7,052.3	0.00	0.00	0.00
17,400.0	90.00	359.70	10,489.0	7,147.4	-277.9	7,152.3	0.00	0.00	0.00
17,500.0	90.00	359.70	10,489.0	7,247.4	-278.4	7,252.3	0.00	0.00	0.00
17,600.0	90.00	359.70	10,489.0	7,347.4	-278.9	7,352.3	0.00	0.00	0.00
17,700.0	90.00	359.70	10,489.0	7,447.4	-279.5	7,452.2	0.00	0.00	0.00
17,800.0	90.00	359.70	10,489.0	7,547.4	-280.0	7,552.2	0.00	0.00	0.00
17,900.0	90.00	359.70	10,489.0	7,647.4	-280.5	7,652.2	0.00	0.00	0.00
18,000.0	90.00	359.70	10,489.0	7,747.4	-281.1	7,752.2	0.00	0.00	0.00
18,100.0	90.00	359.70	10,489.0	7,847.4	-281.6	7,852.1	0.00	0.00	0.00
18,200.0	90.00	359.70	10,489.0	7,947.4	-282.1	7,952.1	0.00	0.00	0.00
18,300.0	90.00	359.70	10,489.0	8,047.4	-282.6	8,052.1	0.00	0.00	0.00
18,400.0	90.00	359.70	10,489.0	8,147.4	-283.2	8,152.1	0.00	0.00	0.00
18,500.0	90.00	359.70	10,489.0	8,247.4	-283.7	8,252.0	0.00	0.00	0.00
18,600.0	90.00	359.70	10,489.0	8,347.4	-284.2	8,352.0	0.00	0.00	0.00
18,700.0	90.00	359.70	10,489.0	8,447.4	-284.8	8,452.0	0.00	0.00	0.00
18,800.0	90.00	359.70	10,489.0	8,547.4	-285.3	8,552.0	0.00	0.00	0.00
18,900.0	90.00	359.70	10,489.0	8,647.4	-285.8	8,651.9	0.00	0.00	0.00
19,000.0	90.00	359.70	10,489.0	8,747.3	-286.3	8,751.9	0.00	0.00	0.00
19,100.0	90.00	359.70	10,489.0	8,847.3	-286.9	8,851.9	0.00	0.00	0.00
19,200.0	90.00	359.70	10,489.0	8,947.3	-287.4	8,951.9	0.00	0.00	0.00
19,300.0	90.00	359.70	10,489.0	9,047.3	-287.9	9,051.8	0.00	0.00	0.00
19,400.0	90.00	359.70	10,489.0	9,147.3	-288.5	9,151.8	0.00	0.00	0.00
19,500.0	90.00	359.70	10,489.0	9,247.3	-289.0	9,251.8	0.00	0.00	0.00
19,600.0	90.00	359.70	10,489.0	9,347.3	-289.5	9,351.8	0.00	0.00	0.00
19,700.0	90.00	359.70	10,489.0	9,447.3	-290.1	9,451.7	0.00	0.00	0.00
19,800.0	90.00	359.70	10,489.0	9,547.3	-290.6	9,551.7	0.00	0.00	0.00
19,900.0	90.00	359.70	10,489.0	9,647.3	-291.1	9,651.7	0.00	0.00	0.00
20,000.0	90.00	359.70	10,489.0	9,747.3	-291.6	9,751.7	0.00	0.00	0.00
20,100.0	90.00	359.70	10,489.0	9,847.3	-292.2	9,851.6	0.00	0.00	0.00
20,200.0	90.00	359.70	10,489.0	9,947.3	-292.7	9,951.6	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Buffalo Trace 1-36 W1PA Fed Com #1H
Well: Sec 12, T26S, R29E
Wellbore: BHL: 330' FNL & 990' FEL (36)
Design: Design #1

Local Co-ordinate Reference: Site Buffalo Trace 1-36 W1PA Fed Com #1H
TVD Reference: WELL @ 3069.0usft (Original Well Elev)
MD Reference: WELL @ 3069.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,300.0	90.00	359.70	10,489.0	10,047.3	-293.2	10,051.6	0.00	0.00	0.00
20,400.0	90.00	359.70	10,489.0	10,147.3	-293.8	10,151.6	0.00	0.00	0.00
20,500.0	90.00	359.70	10,489.0	10,247.3	-294.3	10,251.5	0.00	0.00	0.00
20,600.0	90.00	359.70	10,489.0	10,347.3	-294.8	10,351.5	0.00	0.00	0.00
20,700.0	90.00	359.70	10,489.0	10,447.3	-295.3	10,451.5	0.00	0.00	0.00
20,800.0	90.00	359.70	10,489.0	10,547.3	-295.9	10,551.5	0.00	0.00	0.00
20,900.0	90.00	359.70	10,489.0	10,647.3	-296.4	10,651.4	0.00	0.00	0.00
21,000.0	90.00	359.70	10,489.0	10,747.3	-296.9	10,751.4	0.00	0.00	0.00
21,011.7	90.00	359.70	10,489.0	10,759.0	-297.0	10,763.1	0.00	0.00	0.00

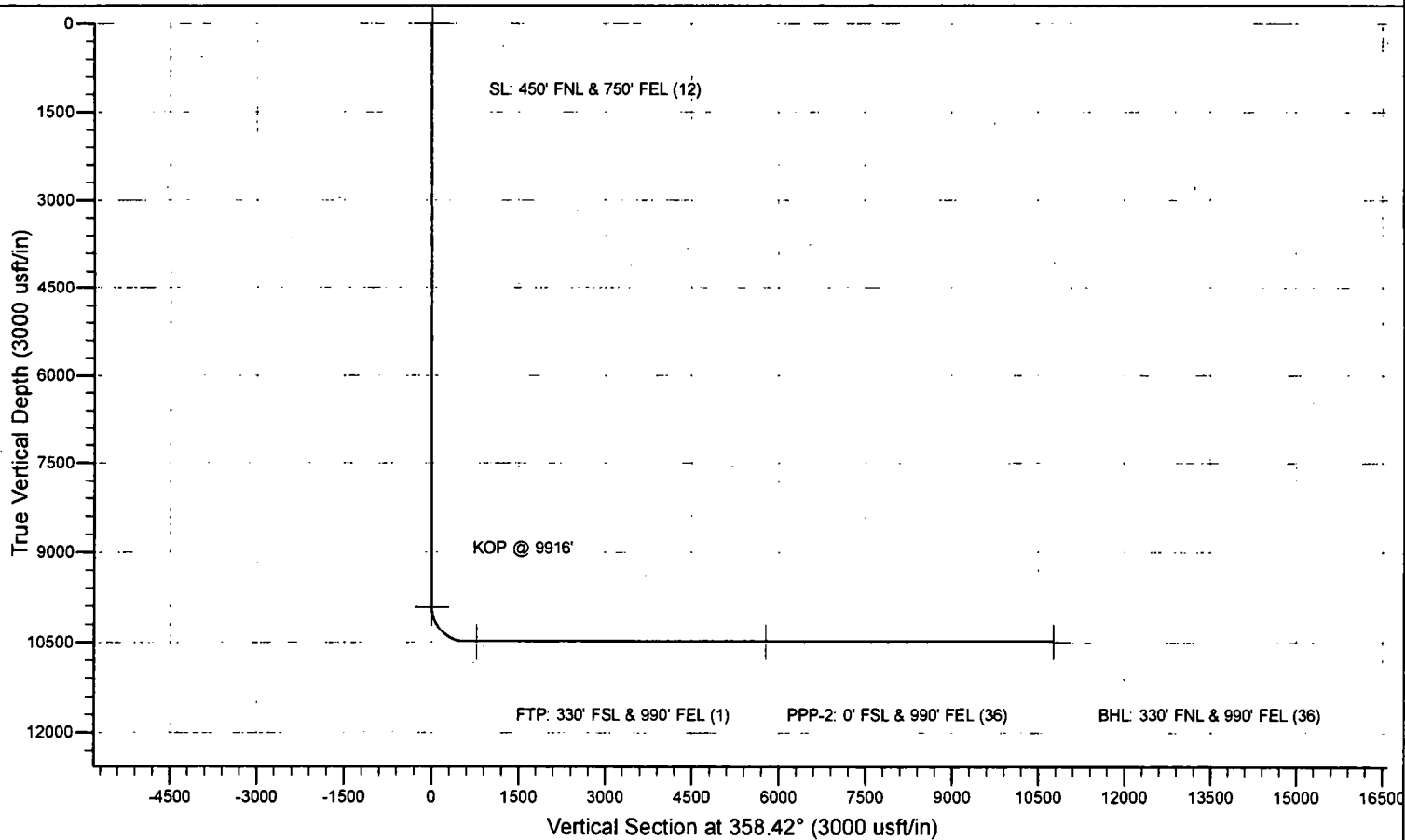
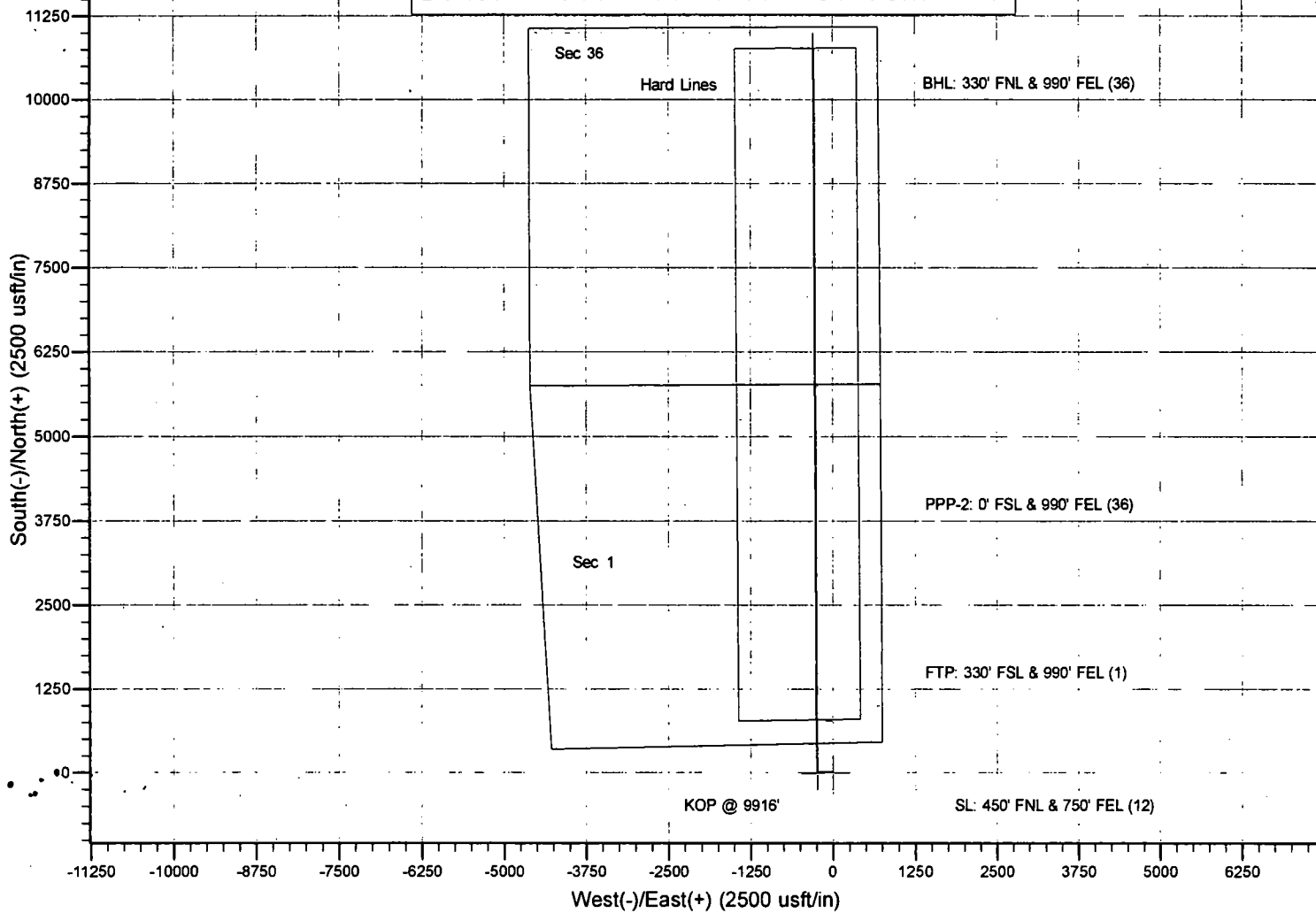
BHL: 330' FNL & 990' FEL (36)

Design Targets

Target Name

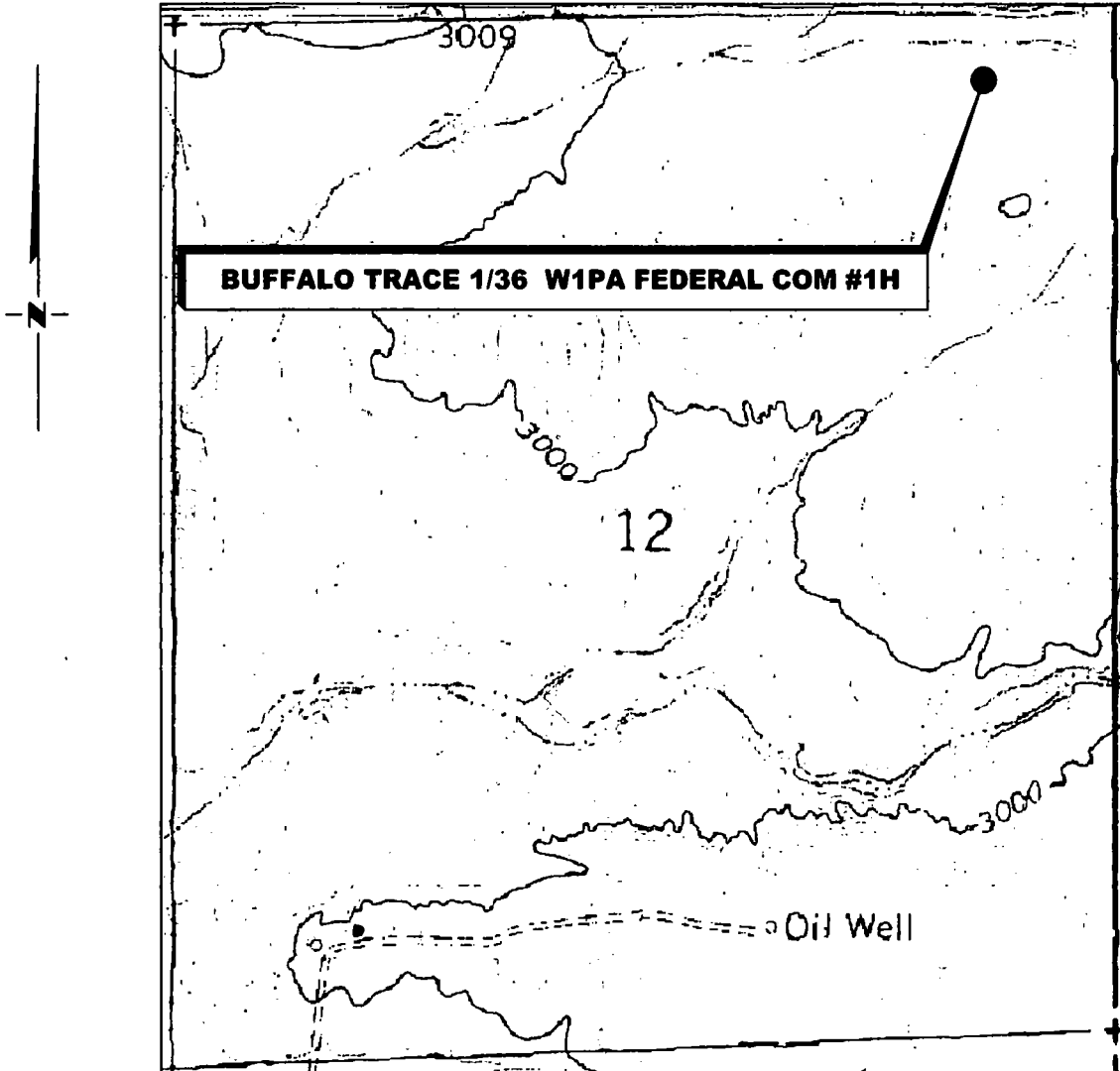
- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 450' FNL & 750' FEL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	386,926.00	665,768.00	32.0631029	-103.9316553
KOP @ 9916' - plan hits target center - Point	0.00	0.00	9,916.0	-5.0	-240.0	386,921.00	665,528.00	32.0630916	-103.9324301
PPP-2: 0' FSL & 990' FE - plan hits target center - Point	0.00	0.00	10,489.0	5,773.0	-270.6	392,699.00	665,497.41	32.0789751	-103.9324595
BHL: 330' FNL & 990' FE - plan hits target center - Point	0.00	0.00	10,489.0	10,759.0	-297.0	397,685.00	665,471.00	32.0926814	-103.9324849
FTP: 330' FSL & 990' FE - plan hits target center - Point	0.00	0.00	10,489.0	775.0	-244.1	387,701.00	665,523.87	32.0652358	-103.9324340

Buffalo Trace 1-36 W1PA Fed Com #1H



LOCATION VERIFICATION MAP

NOT TO SCALE



*SECTION 12, TWP. 26 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY CO., NEW MEXICO*

OPERATOR: Mewbourne Oil Company
LEASE: Buffalo Trace 1/36 W1PA Federal Com
WELL NO.: 1H
ELEVATION: 3042'

LOCATION: 450' FNL & 750' FEL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Ross Ranch, NM (1968)

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NO.	REVISION	DATE
JOB NO.: LS1804504		
DWG. NO.: 1804504LVM		

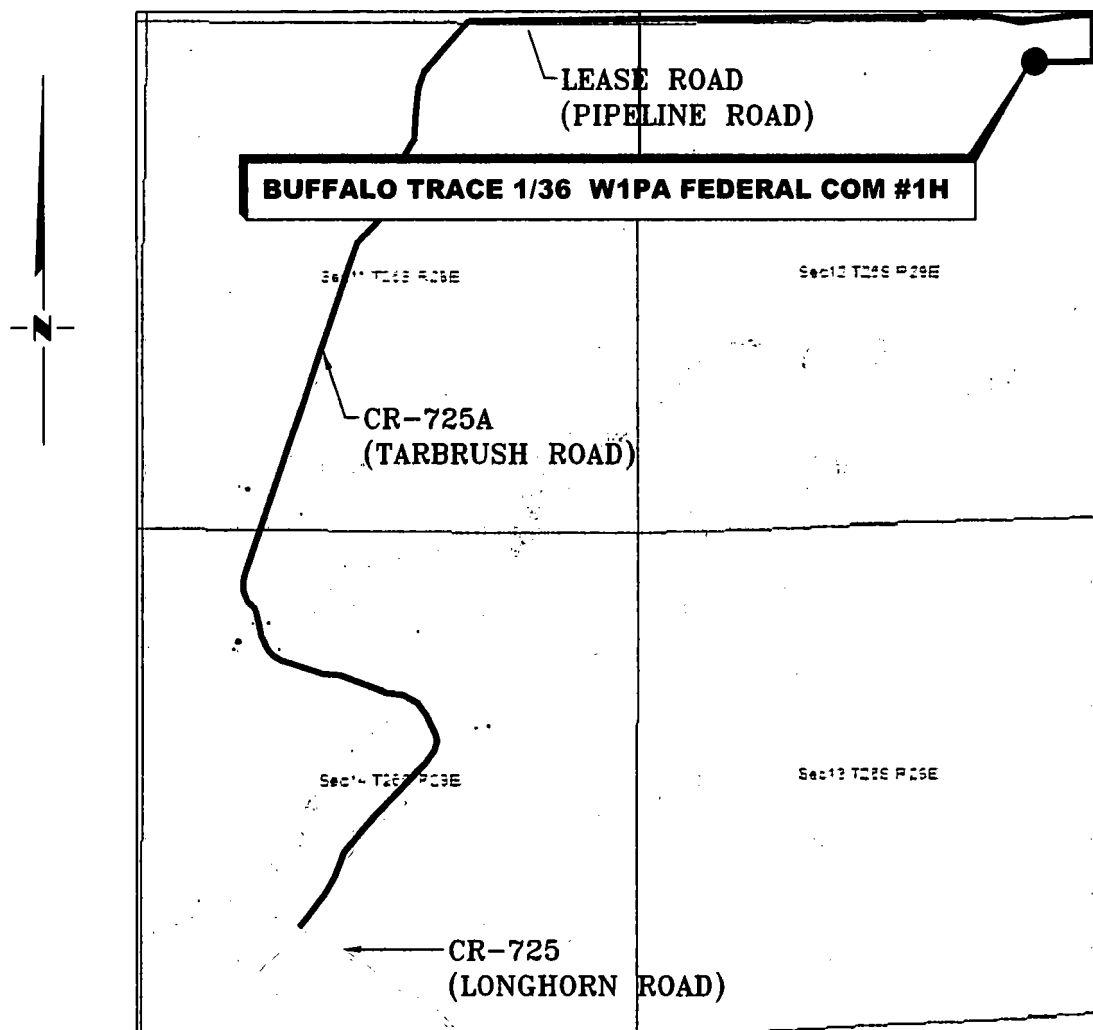
RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 3-2-2018
SURVEYED BY: JF/BK
DRAWN BY: LPS
APPROVED BY: RMH
SHEET: 1 OF 1

LOCATION VERIFICATION MAP

NOT TO SCALE



*SECTION 12, TWP. 26 SOUTH, RGE. 29 EAST,
N. M. P. M., EDDY CO., NEW MEXICO*

OPERATOR: Mewbourne Oil Company
LEASE: Buffalo Trace 1/36 W1PA Federal Com
WELL NO.: 1H
ELEVATION: 3042'

LOCATION: 450' FNL & 750' FEL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Ross Ranch, NM (1968)

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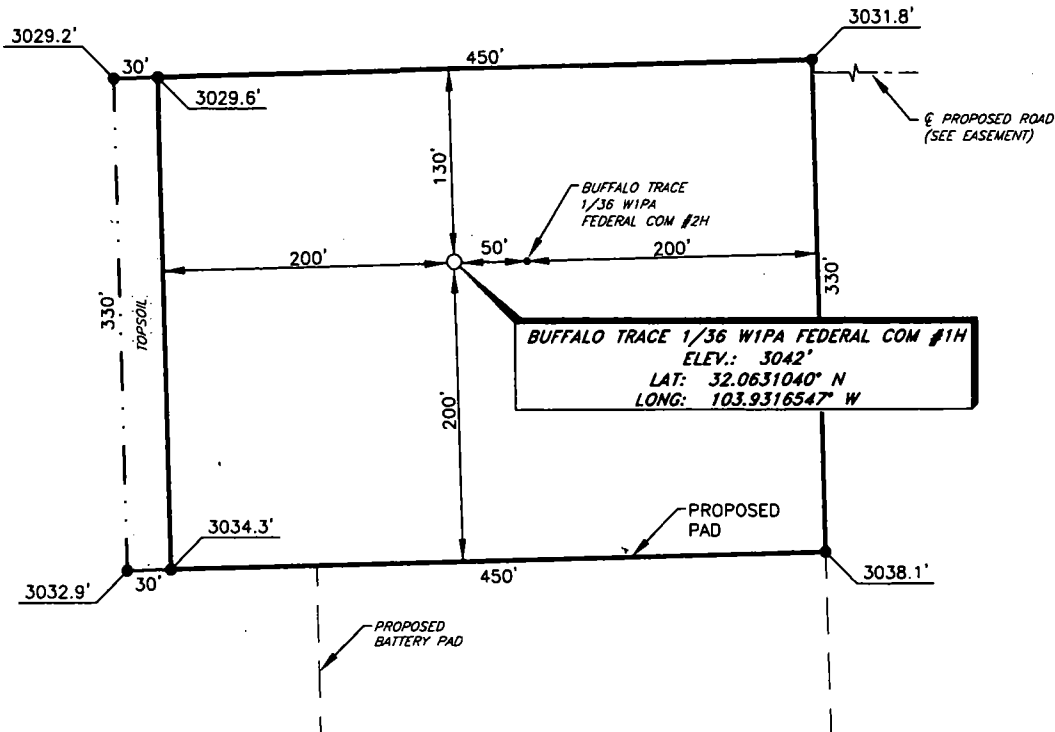
NO.	REVISION	DATE
JOB NO.: LS1804504		
DWG. NO.: 1804504VM		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 3-2-2018
SURVEYED BY: JF/BK
DRAWN BY: LPS
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
BUFFALO TRACE 1/36 W1PA FEDERAL COM #1H
(450' FNL & 750' FEL)
SECTION 12, T28S, R29E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR-725 (Longhorn Rd.) and CR-725A (Tarbrush Rd.)
 Go Northeast on CR-725 approx. 0.5 miles to a curve to the left;
 Turn left and go Northwest approx. .5 miles to a curve to the right;
 Turn right and go Northeast approx. 1.2 miles to a lease road on the right;
 Turn right and go East approx. 1.2 miles to a proposed road;
 Continue East on proposed road approx. 0.1 miles to proposed road right;
 Turn right and go South approx. 330 feet to proposed road right;
 Turn right and go West approx. 620 feet to location on the left.

SCALE: 1" = 100'
 0 50 100

BEARINGS ARE
 NAD 83 GRID - NM EAST
 DISTANCES ARE GROUND

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett

Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.:	LS1804504	
DWG. NO.:	1804504PAD	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 3-2-2018
SURVEYED BY: JF/BK
DRAWN BY: LPS
APPROVED BY: RMH
SHEET: 1 OF 1



GATES E & S NORTH AMERICA, INC.
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: Tim.Cantu@gates.com
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER

Product Description: 10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :
Date :
Signature :

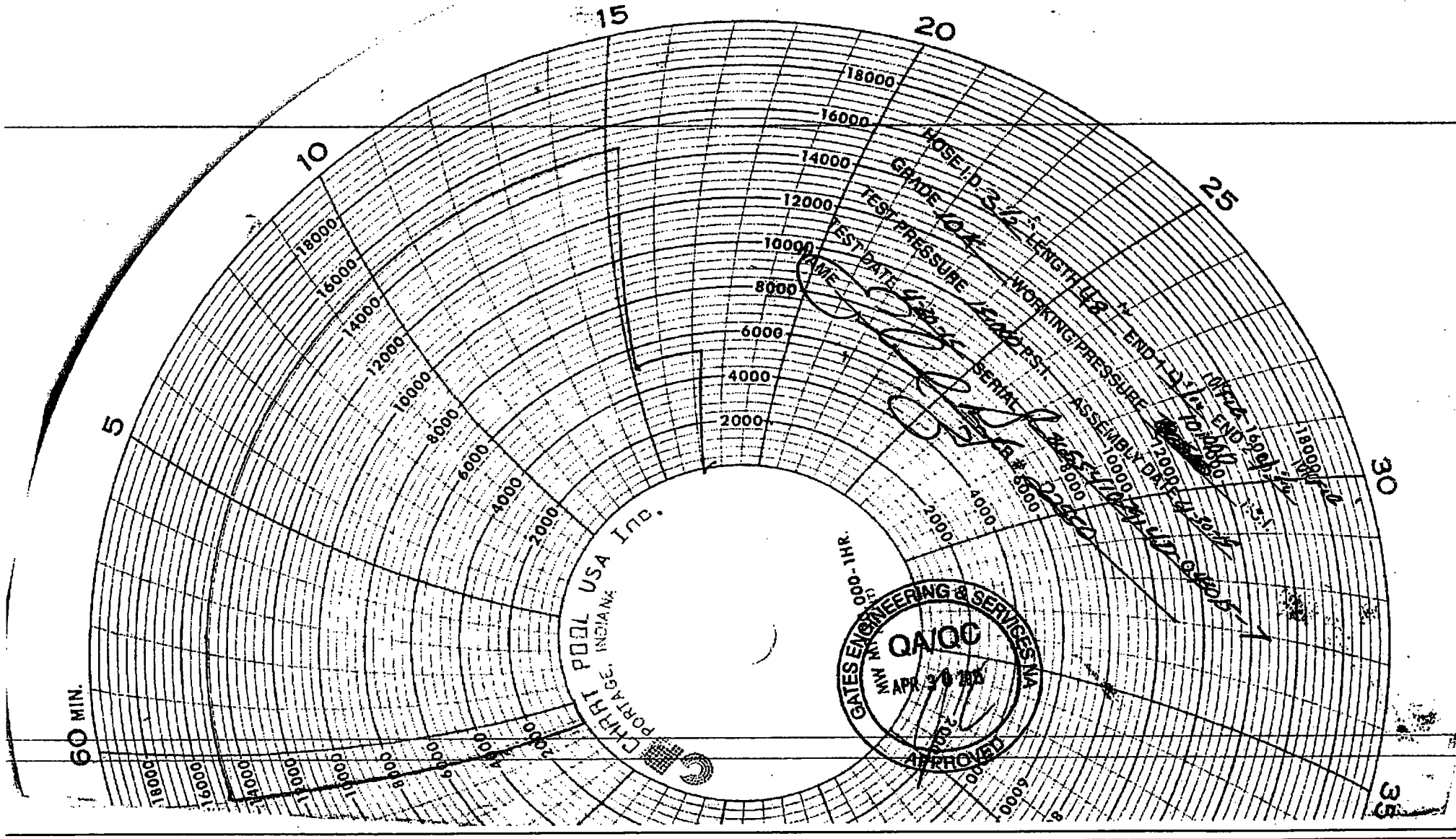
QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:
Date :
Signature :

PRODUCTION
4/30/2015
<i>Justin Cropper</i>

Form PTC - 01 Rev.02

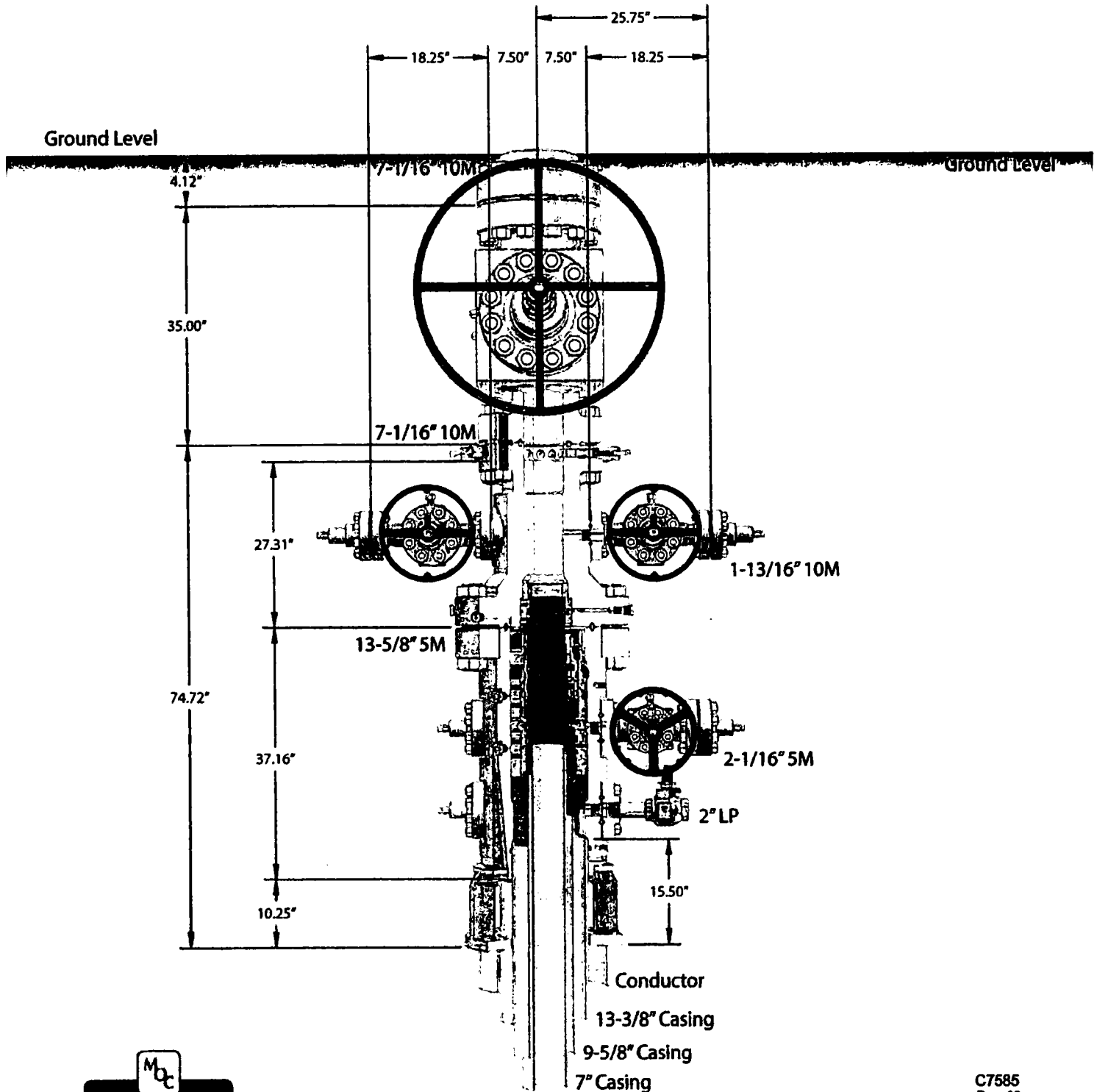




CAMERON

A Schlumberger Company

13-5/8" MN-DS Wellhead System



C7585
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

existing flange 57" conductor cut-off
709

**NM OIL CONSERVATION
ARTESIA DISTRICT**

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

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-43914		² Pool Code 98220	³ Pool Name PURPLE SAGE WOLFCAMP
⁴ Property Code 322234	⁵ Property Name BUFFALO TRACE 1/36 W1PA FEDERAL COM		⁶ Well Number 1H
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY		⁹ Elevation 3042'

¹⁰ Surface Location

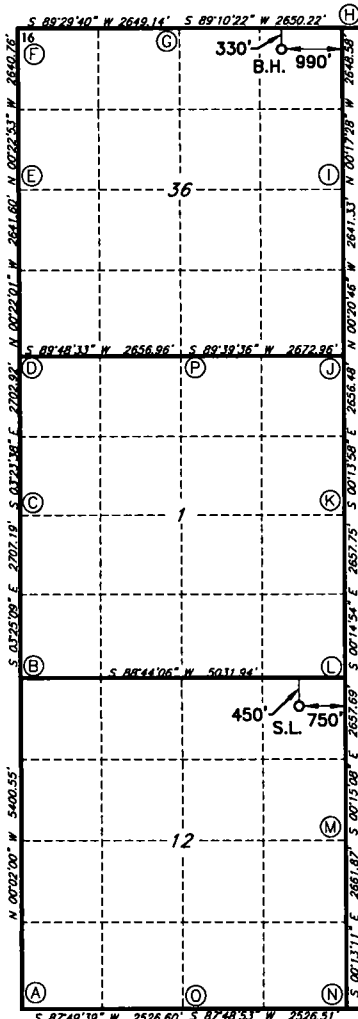
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
A	12	26S	29E		450	NORTH	750	EAST	EDDY

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
A	36	25S	29E		330	NORTH	990	EAST	EDDY

¹² Dedicated Acres 640	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.



GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION
N: 386926.4 - E: 665768.2

LAT: 32.0631040° N
LONG: 103.9316547° W

BOTTOM HOLE
N: 397685.1 - E: 665470.9

LAT: 32.0926816° N
LONG: 103.9324852° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1940" I: FOUND BRASS CAP "1940"
N: 381882.4 - E: 661489.4 N: 395364.5 - E: 666476.0
B: FOUND BRASS CAP "1940" J: FOUND BRASS CAP "1940"
N: 387281.8 - E: 661486.2 N: 392705.9 - E: 666493.5
C: FOUND BRASS CAP "1940" K: FOUND BRASS CAP "1940"
N: 389983.6 - E: 661324.8 N: 390050.0 - E: 666504.3
D: FOUND BRASS CAP "1940" L: FOUND 1/2" REBAR
N: 392681.2 - E: 661164.8 N: 387392.8 - E: 666515.9
E: FOUND BRASS CAP "1940" M: FOUND BRASS CAP "1940"
N: 395334.5 - E: 661152.0 N: 384735.7 - E: 666527.5
F: FOUND 5/8" REBAR N: FOUND BRASS CAP "1940"
N: 397988.6 - E: 661141.0 N: 382074.4 - E: 666537.7
G: FOUND BRASS CAP "1940" O: FOUND BRASS CAP "1940"
N: 398004.2 - E: 663799.3 N: 381978.1 - E: 664013.6
H: FOUND BRASS CAP "1940" P: FOUND BRASS CAP "1940"
N: 398021.4 - E: 666458.5 N: 392690.0 - E: 663821.2

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 *Bradley Bishop* Date **8-15-18**
BRADLEY BISHOP
Printed Name
BBISHOP@MEWBOURNE.COM
E-mail Address

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.

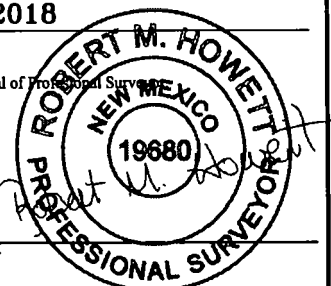
4-20-2018

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



RRC-Job No.: LS1804504

RWP 8-14-18