

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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.*5. Lease Serial No.
NMNM20979

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
LEA SOUTH 25 FEDERAL COM 8H9. API Well No.
30-025-43057-00-X110. Field and Pool, or Exploratory
LEA11. County or Parish, and State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEARBURG PRODUCING COMPANY

Contact: VICKI JOHNSTON

E-Mail: vjohnston1@gmail.com

3a. Address

3300 NORTH A STREET BLDG 2 STE 120
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 830-537-4599

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 25 T20S R34E SESE 0330FSL 0490FEL
32.321594 N Lat, 103.302433 W Lon**HOBBS OCD**

JUN 14 2016

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomple 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 recomple 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.)

Nearburg Producing Company (NPC) requests to drill a pilot hole for this well. After logging the pilot hole, NPC may decide to complete the well as a 3rd Bone Spring Carbonate. If the 3rd Bone Spring Carbonate is non-productive, NPC will file another Sundry Notice with revised drilling plan and related documents for the horizontal well. Please see revised attachments:

C-102
Drilling Plan
Directional Plan
Wellbore Diagram

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

Electronic Submission #340853 verified by the BLM Well Information System
For NEARBURG PRODUCING COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 06/02/2016 (16PP0716SE)

Name (Printed/Typed) TIM GREEN

Title PRODUCTION MANAGER

Signature (Electronic Submission)

Date 06/01/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

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

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.

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

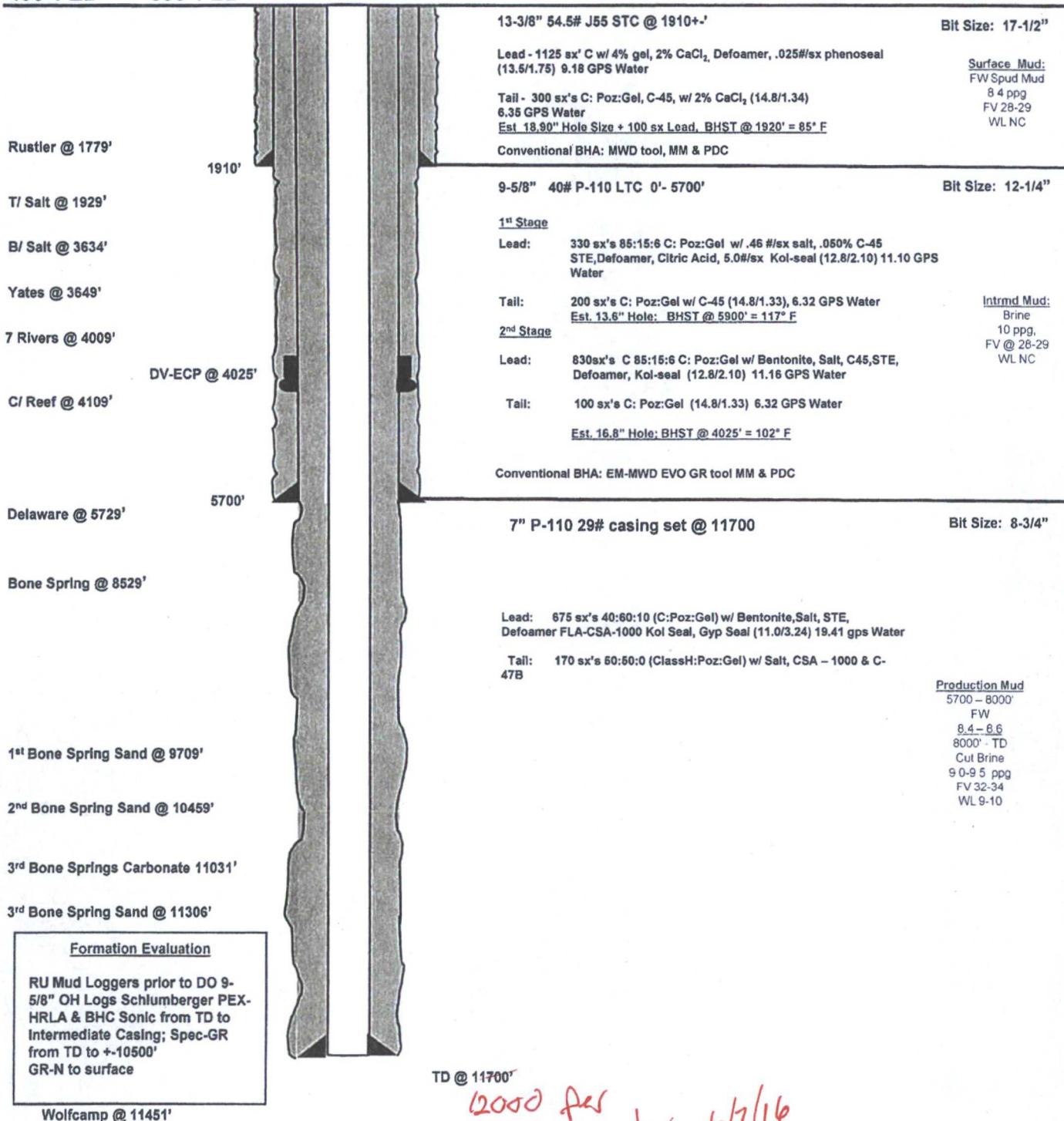
Lea County, NM
S25, T20S, R34E

Lea South 25 Federal Com #8
3rd Bone Spring
Proposed 7 " Wellbore
API: 30-025-43057

Rig: H&P 497
Well Type: Vertical Pilot
AFE Days: 24
AFE M\$: \$2,607

SHL BHL
330' FSL 330' FSL
490' FEL 330' FEL

KB: 3777'
GL: 3761'



DRILLING PLAN
 Lea South 25 Federal Com #8H
 REVISED 5/27/16 -- (Nearburg Revisions-Blue; COA Revisions-Red)
 Nearburg Producing Co. OGRID #15742
 UL: P, Sec. 25-20S-34E
 Lea Co., NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

- 1 Location: SHL 330 FSL 490 FEL
 BHL 660 FNL **330 FEL**
- 2 Elevation above sea level: 3761' GR
- 3 Geologic name of surface formation: Quaternary Alluvium Deposits
- 4 Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5 Proposed drilling depth: 15,631' MD 11,350' TVD
- 6 Estimated tops of geological markers:

Formation	Est. Top	Bearing
Rustler	1650	NA
Top of Salt	1800	NA
Tansill	3400	NA
Capitan	3970	NA
Delaware	5700	Hydrocarbons
Bone Spring	8400	NA
Avalon Shale	8900	Hydrocarbons
1st Bone Spring Ss	9600	Hydrocarbons
2nd Bone Spring Ss	10150	Hydrocarbons
3rd Carbonate	10630	NA
3rd Bone Spring Ss	10925	NA
3rd Bone Spring C Ss	11015	Hydrocarbons

- 7 Possible mineral bearing formation:
 Shown above

7A OSE Ground Water estimated depth: 100'

- 8 Casing Program:

Casing Depth From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF (1.125)	Burst SF (1.125)	Cumulative Air Weight (lbs)	Cumulative Bouyed Weight (lbs)	Bouyant Tension SF (1.8)
Surface															
0'	1910'	1910'	17 1/2	13 3/8	54.5	J-55	ST&C	New	801	8.4	1.45	3.42	97,010	84,569	6.08
Intermediate															
0'	5700'	5700'	12 1/4	9 5/8	40	P-110	LT&C	New	2,565	10.2	2.97	5.63	279,300	235,806	5.07
Production															
0'	11700'	11700'	8 3/4	7	29	P-110	LT&C	New	2,611	9.2	1.40	1.32	339,300	290,088	2.35
11700'	11700'	11700'	8 3/4	7	29	P-110	LT&C	New	5,108	9.2	1.40	1.32	339,300	290,088	2.35

Casing Design Criteria and Casing Loading Assumptions:

Surface

- Tension A 1.8 design factor with effects of buoyancy. 8.4 ppg
- Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.4 ppg mud gradient
- Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Intermediate

- Tension A 1.8 design factor with effects of buoyancy. 10.2 ppg
- Collapse A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.2 ppg mud gradient
- Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Production

- Tension A 1.8 design factor with effects of buoyancy. 9.2 ppg
- Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to a 9.2 ppg mud gradient
- Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Drilling Plan

Lea South 25 Federal Com #8H

REVISED 5/27/16 -- (Nearburg Revisions-Blue; COA Revisions-Red)

Nearburg Producing Co. OGRID #15742

UL: P, Sec. 25-20S-34E

Lea Co., NM

9 Cementing Program:

13-3/8"	Surface	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
		1125	1.75	13.5	1969	100:0 4 (Class C: Poz: Gel) + Bentonite + Phenoseal + Defoamer + CaCl 2%
	Lead					
	Tail	300	1.34	14.8	402	100:0:0 (Class C: Poz: Gel C-45 + CaCl 2%)
TOC: 0' 85% Excess Centralizers per Onshore Order 2.III.B.1f						
9-5/8"	Intermediate 1	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
		330	2.1	12.8	693	85:15:6 (Class C: Poz: Gel) + salt + C-45 + STE + Defoamer + Citric Acid + Kol-Seal
	Lead					
	Tail	200	1.33	14.8	266	100:0:0 (Class C: Poz: Gel) + Econolite
TOC: 0' 81% Excess SV tool @ 4025						
9-5/8"	Intermediate 2	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
		830	2.1	12.8	1743	85:15:6 (Class C: Poz: Gel) + Bentonite + salt + Econolite + STE + Defoamer + Kol-Seal
	Lead					
	Tail	100	1.33	14.8	133	100:0:0 (Class C: Poz: Gel) + Econolite
TOC: 0' 0% Excess						
7"	Production	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
	Lead	675	3.24	11	1928	40:60:10 C: Poz: Gel
	Tail	170	1.25	14.2	204	50:50 (poz/H) + Salt + Fluid Loss

10 Pressure Control Equipment:

Exhibit "E-1". A BOP consisting of two rams with blind rams and pipe rams, and one annular preventer. Below the surface casing, a 2M system will be used. Below the intermediate casing, a **5M** system will be used. See attachments for BOP and choke manifold diagrams. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A Rotating head may be installed as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP and associated equipment will be installed, used, maintained, and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe. The Annular Preventer shall be functioned at least weekly. The pipe and blind rams will be operated each trip. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and **5000** psi high.

The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 low and **2500** high on the intermediate casing.

Nearburg Producing Company requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Application to Drill
Lea South 25 Federal Com #8H
REVISED 5/27/16 -- (Nearburg Revisions-Blue; COA Revisions-Red)
Nearburg Producing Co. OGRID #15742
UL: P, Sec. 25-20S-34E
Lea Co., NM

11 Proposed Mud Circulating System:

Depth		Mud Wt	Visc	Fluid Loss	Type Mud
0'	to 1910'	8.4	28	NC	FW Spud Mud
1910'	to 5700'	10.2	30-32	NC	Brine water
5700'	to 11700'	9.2	30-32	NC	FW/Cut Brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

12 Proposed Drilling Plan

Pilot Hole TD: 11700'

Set surface and intermediate strings. Drill production hole to 11700'.

13 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 5700' to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / GR -- Inter. Csg to TD
CNL / GR -- Surf to Inter. Csg
- C. No DSTs or cores are planned at this time.
- D. CBL w/ CCL from as far as gravity will let it fall to TOC

14 Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Nearburg does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP 5108 psi Estimated BHT 180°

15 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take : 21 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

16 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from TD over possible pay intervals.

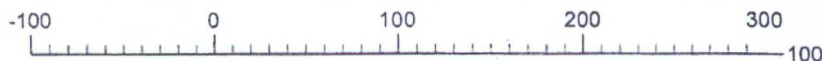
Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potential as Oil

NEARBURG PRODUCING COMPANY

Project: Lea County, NM (NAD83)
 Site: Lea South 25 Fed Com 8H Pilot
 Well: 8H Pilot
 Wellbore: Original Hole
 Design: Plan #2

West(-)/East(+) (100 ft/in)



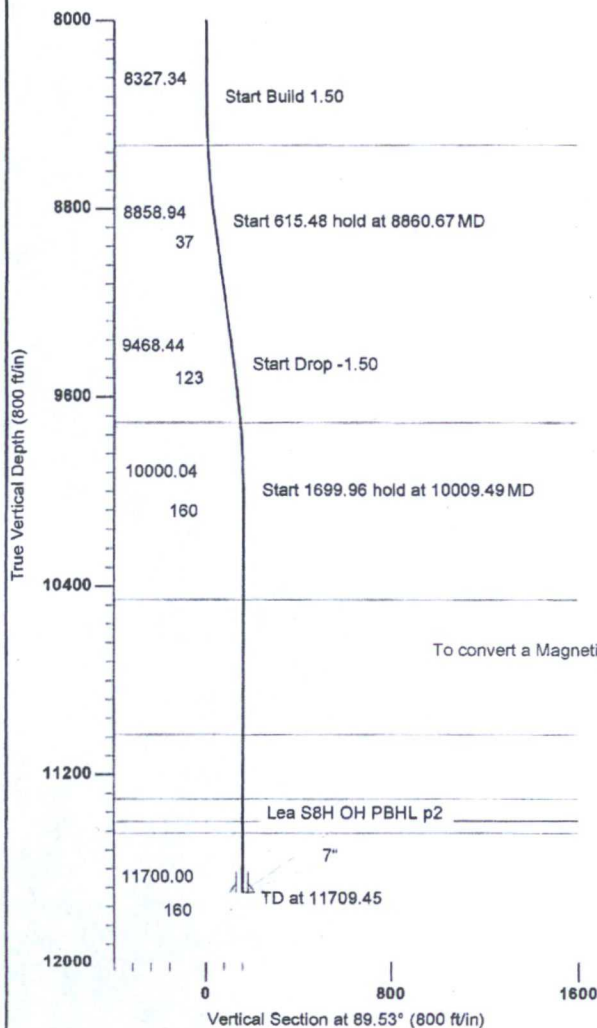
Lea S8H OH SL p2
 13 3/8"
 9 5/8"

Lea S8H OH PBHL p2
 7"



South(-)/North(+) (100 ft/in)

3761+15 @ 3776.00ft (Per GeoProg)
 North American Datum 1983



Azimuths to Grid North
 T G M True North: -0.44°
 Magnetic North: 6.63°

Magnetic Field
 Strength: 48250.9snT
 Dip Angle: 60.38°
 Date: 04/12/2016
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.63°

Section Line Distances

Surface - 490.0'FEL, 330.1'FSL

PBHL - 330.0'FEL, 330.0'FSL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1779.00	1779.00	Rustler
1929.00	1929.00	Salt
3649.00	3649.00	Yates
4009.00	4009.00	Seven Rivers
4109.00	4109.00	Capitan
5729.00	5729.00	Delaware
8529.00	8529.00	Bone Springs
9709.00	9718.17	1 BS Sand
10459.00	10468.45	2 BS Sand
11031.00	11040.45	3 BS Carbonate
11306.00	11315.45	3 BS Sand
11401.00	11410.45	Basal 3 S Sand
11451.00	11460.45	Wolfcamp Mkr

CASING DETAILS

TVD	MD	Name	Size
1675.00	1675.00	13 3/8"	13.37
5500.00	5500.00	9 5/8"	9.62
11700.00	11709.45	5 1/2"	5.50

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Lea S8H OH SL p2	0.00	0.00	0.00	560356.50	796063.30	Point
Lea S8H OH PBHL p2	11700.00	1.30	160.00	560357.80	796223.30	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8327.34	0.00	0.00	8327.34	0.00	0.00	0.00	0.00	0.00	
8860.67	8.00	89.53	8858.94	0.30	37.17	1.50	89.53	37.17	
9476.16	8.00	89.53	9468.44	1.00	122.83	0.00	0.00	122.83	
10009.49	0.00	0.00	10000.04	1.30	160.00	1.50	180.00	160.01	
11709.45	0.00	0.00	11700.00	1.30	160.00	0.00	0.00	160.01	Lea S8H OH PBHL p2

Plan: Plan #2 (8H Pilot/Original Hole)
 Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 15:19, May 27 2016

VON DIRECTIONAL
 12074 FM 3083 Conroe, Texas 77301
 936-756-2400



Planning Report



Database: VONEDM
Company: NEARBURG PRODUCING COMPANY
Project: Lea County, NM (NAD83)
Site: Lea South 25 Fed Com 8H Pilot
Well: 8H Pilot
Wellbore: Original Hole
Design: Plan #2

Local Co-ordinate Reference: Site Lea South 25 Fed Com 8H Pilot
TVD Reference: 3761+15 @ 3776.00ft (Per GeoProg)
MD Reference: 3761+15 @ 3776.00ft (Per GeoProg)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lea South 25 Fed Com 8H Pilot, Sec 25 20S-34E (Lat Long per Plat)			
Site Position:		Northing:	560,356.50 ft	Latitude: 32° 32' 15.929 N
From:	Map	Easting:	796,063.30 ft	Longitude: 103° 30' 24.344 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence: 0.44 °

Well	8H Pilot			
Well Position	+N/-S	0.00 ft	Northing: 560,356.50 ft	Latitude: 32° 32' 15.929 N
	+E/-W	0.00 ft	Easting: 796,063.30 ft	Longitude: 103° 30' 24.344 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level: 3,761.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/12/2016	7.07	60.38	48,251

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD (ft))	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	89.53

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/ft)	Build Rate (°/ft)	Turn Rate (°/ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,327.34	0.00	0.00	8,327.34	0.00	0.00	0.00	0.00	0.00	0.00	
8,860.67	8.00	89.53	8,858.94	0.30	37.17	1.50	1.50	0.00	89.53	
9,476.16	8.00	89.53	9,468.44	1.00	122.83	0.00	0.00	0.00	0.00	
10,009.49	0.00	0.00	10,000.04	1.30	160.00	1.50	-1.50	0.00	180.00	
11,709.45	0.00	0.00	11,700.00	1.30	160.00	0.00	0.00	0.00	0.00	Lea S8H OH PBHL p

Planning Report



Database: VONEDM
Company: NEARBURG PRODUCING COMPANY
Project: Lea County, NM (NAD83)
Site: Lea South 25 Fed Com 8H Pilot
Well: 8H Pilot
Wellbore: Original Hole
Design: Plan #2

Local Co-ordinate Reference: Site Lea South 25 Fed Com 8H Pilot
TVD Reference: 3761+15 @ 3776.00ft (Per GeoProg)
MD Reference: 3761+15 @ 3776.00ft (Per GeoProg)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/ft)	Build Rate (°/ft)	Turn Rate (°/ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,675.00	0.00	0.00	1,675.00	0.00	0.00	0.00	0.00	0.00	0.00
3 3/8"									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,779.00	0.00	0.00	1,779.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,929.00	0.00	0.00	1,929.00	0.00	0.00	0.00	0.00	0.00	0.00
Salt									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,649.00	0.00	0.00	3,649.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,009.00	0.00	0.00	4,009.00	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,109.00	0.00	0.00	4,109.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report



Database: VONEDM
Company: NEARBURG PRODUCING COMPANY
Project: Lea County, NM (NAD83)
Site: Lea South 25 Fed Com 8H Pilot
Well: 8H Pilot
Wellbore: Original Hole
Design: Plan #2

Local Co-ordinate Reference: Site Lea South 25 Fed Com 8H Pilot
TVD Reference: 3761+15 @ 3776.00ft (Per GeoProg)
MD Reference: 3761+15 @ 3776.00ft (Per GeoProg)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/ft)	Build Rate (°/ft)	Turn Rate (°/ft)
Capitan									
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,729.00	0.00	0.00	5,729.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,327.34	0.00	0.00	8,327.34	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	1.09	89.53	8,400.00	0.01	0.69	0.69	1.50	1.50	0.00
8,500.00	2.59	89.53	8,499.94	0.03	3.90	3.90	1.50	1.50	0.00
8,529.09	3.03	89.53	8,529.00	0.04	5.33	5.33	1.50	1.50	0.00
Bone Springs									
8,600.00	4.09	89.53	8,599.77	0.08	9.73	9.73	1.50	1.50	0.00
8,700.00	5.59	89.53	8,699.41	0.15	18.16	18.16	1.50	1.50	0.00

Planning Report



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Design: Plan #2

Local Co-ordinate Reference: Site Lea South 25 Fed Com 8H Pilot
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MD Reference: 3761+15 @ 3776.00ft (Per GeoProg)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/ft)	Build Rate (°/ft)	Turn Rate (°/ft)
8,800.00	7.09	89.53	8,798.79	0.24	29.21	29.21	1.50	1.50	0.00
8,860.67	8.00	89.53	8,858.94	0.30	37.17	37.17	1.50	1.50	0.00
8,900.00	8.00	89.53	8,897.89	0.35	42.65	42.65	0.00	0.00	0.00
9,000.00	8.00	89.53	8,996.91	0.46	56.56	56.56	0.00	0.00	0.00
9,100.00	8.00	89.53	9,095.94	0.57	70.48	70.48	0.00	0.00	0.00
9,200.00	8.00	89.53	9,194.97	0.69	84.40	84.40	0.00	0.00	0.00
9,300.00	8.00	89.53	9,293.99	0.80	98.31	98.32	0.00	0.00	0.00
9,400.00	8.00	89.53	9,393.02	0.91	112.23	112.23	0.00	0.00	0.00
9,476.16	8.00	89.53	9,468.44	1.00	122.83	122.83	0.00	0.00	0.00
9,500.00	7.64	89.53	9,492.06	1.02	126.07	126.08	1.50	-1.50	0.00
9,600.00	6.14	89.53	9,591.33	1.12	138.07	138.08	1.50	-1.50	0.00
9,700.00	4.64	89.53	9,690.89	1.20	147.47	147.47	1.50	-1.50	0.00
9,718.17	4.37	89.53	9,709.00	1.21	148.90	148.90	1.50	-1.50	0.00
BS Sand									
9,800.00	3.14	89.53	9,790.65	1.25	154.26	154.26	1.50	-1.50	0.00
9,900.00	1.64	89.53	9,890.56	1.29	158.43	158.44	1.50	-1.50	0.00
10,009.49	0.00	0.00	10,000.04	1.30	160.00	160.01	1.50	-1.50	0.00
10,100.00	0.00	0.00	10,090.55	1.30	160.00	160.01	0.00	0.00	0.00
10,200.00	0.00	0.00	10,190.55	1.30	160.00	160.01	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.55	1.30	160.00	160.01	0.00	0.00	0.00
10,400.00	0.00	0.00	10,390.55	1.30	160.00	160.01	0.00	0.00	0.00
10,468.45	0.00	0.00	10,459.00	1.30	160.00	160.01	0.00	0.00	0.00
2 BS Sand									
10,500.00	0.00	0.00	10,490.55	1.30	160.00	160.01	0.00	0.00	0.00
10,600.00	0.00	0.00	10,590.55	1.30	160.00	160.01	0.00	0.00	0.00
10,700.00	0.00	0.00	10,690.55	1.30	160.00	160.01	0.00	0.00	0.00
10,800.00	0.00	0.00	10,790.55	1.30	160.00	160.01	0.00	0.00	0.00
10,900.00	0.00	0.00	10,890.55	1.30	160.00	160.01	0.00	0.00	0.00
11,000.00	0.00	0.00	10,990.55	1.30	160.00	160.01	0.00	0.00	0.00
11,040.45	0.00	0.00	11,031.00	1.30	160.00	160.01	0.00	0.00	0.00
3 BS Carbonate									
11,100.00	0.00	0.00	11,090.55	1.30	160.00	160.01	0.00	0.00	0.00
11,200.00	0.00	0.00	11,190.55	1.30	160.00	160.01	0.00	0.00	0.00
11,300.00	0.00	0.00	11,290.55	1.30	160.00	160.01	0.00	0.00	0.00
11,315.45	0.00	0.00	11,306.00	1.30	160.00	160.01	0.00	0.00	0.00
3 BS Sand									
11,400.00	0.00	0.00	11,390.55	1.30	160.00	160.01	0.00	0.00	0.00
11,410.45	0.00	0.00	11,401.00	1.30	160.00	160.01	0.00	0.00	0.00
Basal 3 S Sand									
11,460.45	0.00	0.00	11,451.00	1.30	160.00	160.01	0.00	0.00	0.00
Wolfcamp Mkr									
11,500.00	0.00	0.00	11,490.55	1.30	160.00	160.01	0.00	0.00	0.00
11,600.00	0.00	0.00	11,590.55	1.30	160.00	160.01	0.00	0.00	0.00
11,709.45	0.00	0.00	11,700.00	1.30	160.00	160.01	0.00	0.00	0.00

7"

Planning Report



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Design: Plan #2

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Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Lea S8H OH SL p2 - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	560,356.50	796,063.30	32° 32' 15.929 N	103° 30' 24.344 w
Lea S8H OH PBHL p2 - plan hits target center - Point	0.00	0.01	11,700.00	1.30	160.00	560,357.80	796,223.30	32° 32' 15.930 N	103° 30' 22.475 w

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,675.00	1,675.00	13 3/8"	13.37	17.50
5,500.00	5,500.00	9 5/8"	9.62	12.25
11,709.45	11,700.00	7"	5.50	6.75