

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELL**
*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.
H-063798
6. If Indian, Allottee or Tribe Name**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

DEVON ENERGY PRODUCTION CO LP

Contact: DAVID H COOK

Email: david.cook@devn.com

3a. Address

333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-552-7848

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

Sec 14 T24S R33E NENW 225FNL 1450FWL

8. Well Name and No.

BOOMSLANG 14 23 FED 2H

9. API Well No.

30-025-43308-00-X1

10. Field and Pool, or Exploratory

RED HILLS

11. County or Parish, and State

LEA COUNTY, NM

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	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, work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 recompleation in a new interval, a Form 3160-4 shall be filed 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.)

Devon Energy Production Co., L.P. respectfully requests approval to change the approved formation target to the Leonard A.

The TVD of target will change from 11,207' to 9,499'.
The MD at TD will change from 20,962' to 19,204'.

Surface hole and bottom hole footage calls will remain unchanged.

Please see the attached revised C-102, Revised Drill Plan and Directional Survey.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Electronic Submission #344440 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/18/2016 (16PP0908SE)

Name (Printed/Typed) DAVID H COOK

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 07/12/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified) Mustafa Haque

Title PETROLEUM ENGINEER

Date 08/03/2016

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 Hobbs

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 ****



Project: Lea County, NM (NAD-83)
 Site: Boomslang 14-23 Fed
 Well: 2H
 Wellbore: OH
 Design: Plan #1



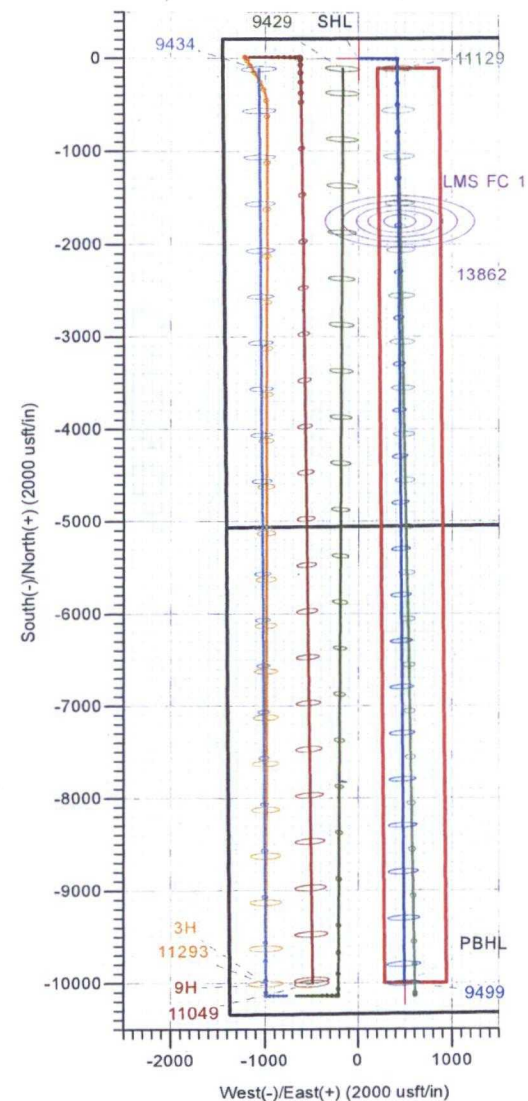
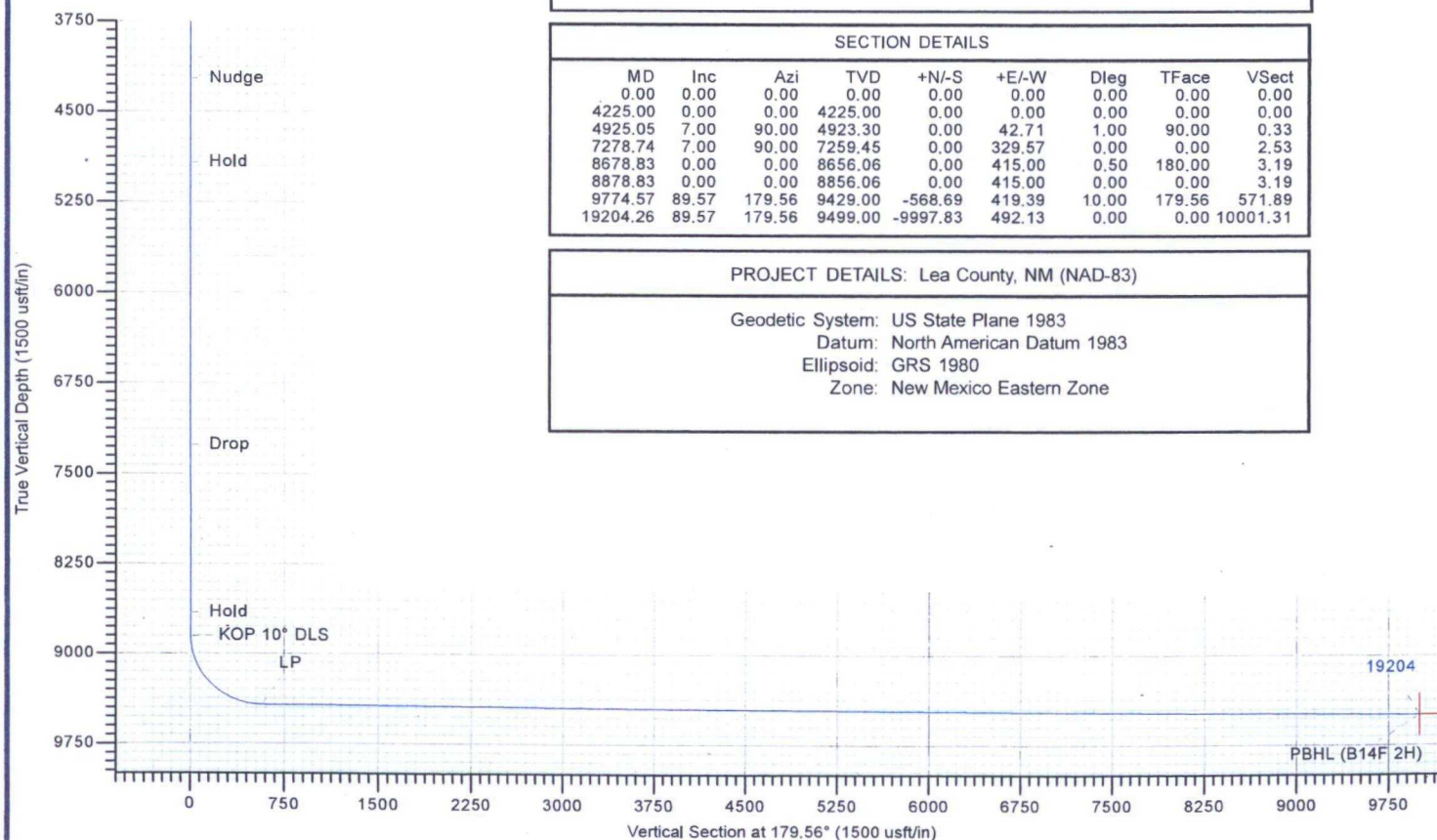
Azimuths to Grid North
 True North: -0.42°
 Magnetic North: 6.51°
 Magnetic Field
 Strength: 48232.5nT
 Dip Angle: 60.02°
 Date: 6/28/2016
 Model: HDGM



DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
SHL (B14F 2H)	0.00	0.00	0.00	446204.70	784509.02
PBHL (B14F 2H)	9499.00	-9997.83	492.13	436206.87	785001.15

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4225.00	0.00	0.00	4225.00	0.00	0.00	0.00	0.00	0.00	
4925.05	7.00	90.00	4923.30	0.00	42.71	1.00	90.00	0.33	
7278.74	7.00	90.00	7259.45	0.00	329.57	0.00	0.00	2.53	
8678.83	0.00	0.00	8656.06	0.00	415.00	0.50	180.00	3.19	
8878.83	0.00	0.00	8856.06	0.00	415.00	0.00	0.00	3.19	
9774.57	89.57	179.56	9429.00	-568.69	419.39	10.00	179.56	571.89	
19204.26	89.57	179.56	9499.00	-9997.83	492.13	0.00	0.00	10001.31	

PROJECT DETAILS: Lea County, NM (NAD-83)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone



DEVON ENERGY

Lea County, NM (NAD-83)

Boomslang 14-23 Fed

2H

OH

Plan: Plan #1

Standard Planning Report

12 July, 2016

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Site: Boomslang 14-23 Fed
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 2H
TVD Reference: 3599.8' GL + 25' RKB @ 3624.80usft
MD Reference: 3599.8' GL + 25' RKB @ 3624.80usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (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 Boomslang 14-23 Fed

Site Position: Northing: 446,243.13 usft Latitude: 32° 13' 27.535 N
From: Map Easting: 786,353.47 usft Longitude: 103° 32' 27.617 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16" Grid Convergence: 0.42 °

Well 2H, 2nd BS SS

Well Position +N/-S -38.43 usft Northing: 446,204.70 usft Latitude: 32° 13' 27.289 N
+E/-W -1,844.45 usft Easting: 784,509.02 usft Longitude: 103° 32' 49.091 W
Position Uncertainty 0.00 usft Wellhead Elevation: 3,624.80 usft Ground Level: 3,599.80 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/28/2016	6.93	60.02	48,233

Design Plan #1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.56

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,225.00	0.00	0.00	4,225.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,925.05	7.00	90.00	4,923.30	0.00	42.71	1.00	1.00	0.00	90.00	
7,278.74	7.00	90.00	7,259.45	0.00	329.57	0.00	0.00	0.00	0.00	
8,678.83	0.00	0.00	8,656.06	0.00	415.00	0.50	-0.50	0.00	180.00	
8,878.83	0.00	0.00	8,856.06	0.00	415.00	0.00	0.00	0.00	0.00	
9,774.57	89.57	179.56	9,429.00	-568.69	419.39	10.00	10.00	20.05	179.56	
19,204.26	89.57	179.56	9,499.00	-9,997.83	492.13	0.00	0.00	0.00	0.00	PBHL (B14F 2H)

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 MD Reference: 3599.8' GL + 25' RKB @ 3624.80usft
 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (B14F 2H)									
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
1,274.80	0.00	0.00	1,274.80	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,804.80	0.00	0.00	1,804.80	0.00	0.00	0.00	0.00	0.00	0.00
Top of Salt									
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
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
3,700.00	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
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,225.00	0.00	0.00	4,225.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge									
4,300.00	0.75	90.00	4,300.00	0.00	0.49	0.00	1.00	1.00	0.00
4,400.00	1.75	90.00	4,399.97	0.00	2.67	0.02	1.00	1.00	0.00
4,500.00	2.75	90.00	4,499.89	0.00	6.60	0.05	1.00	1.00	0.00
4,600.00	3.75	90.00	4,599.73	0.00	12.27	0.09	1.00	1.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Site: Boomslang 14-23 Fed
Well: 2H
Wellbore: OH
Design: Plan #1

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MD Reference: 3599.8' GL + 25' RKB @ 3624.80usft
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)
4,700.00	4.75	90.00	4,699.46	0.00	19.68	0.15	1.00	1.00	0.00
4,800.00	5.75	90.00	4,799.04	0.00	28.83	0.22	1.00	1.00	0.00
4,900.00	6.75	90.00	4,898.44	0.00	39.71	0.30	1.00	1.00	0.00
4,925.05	7.00	90.00	4,923.31	0.00	42.71	0.33	1.00	1.00	0.00
Hold									
5,000.00	7.00	90.00	4,997.70	0.00	51.85	0.40	0.00	0.00	0.00
5,100.00	7.00	90.00	5,096.96	0.00	64.04	0.49	0.00	0.00	0.00
5,200.00	7.00	90.00	5,196.21	0.00	76.22	0.59	0.00	0.00	0.00
5,240.90	7.00	90.00	5,236.80	0.00	81.21	0.62	0.00	0.00	0.00
Base of Salt - Delaware									
5,300.00	7.00	90.00	5,295.46	0.00	88.41	0.68	0.00	0.00	0.00
5,400.00	7.00	90.00	5,394.72	0.00	100.60	0.77	0.00	0.00	0.00
5,500.00	7.00	90.00	5,493.97	0.00	112.79	0.87	0.00	0.00	0.00
5,600.00	7.00	90.00	5,593.23	0.00	124.97	0.96	0.00	0.00	0.00
5,700.00	7.00	90.00	5,692.48	0.00	137.16	1.05	0.00	0.00	0.00
5,800.00	7.00	90.00	5,791.74	0.00	149.35	1.15	0.00	0.00	0.00
5,900.00	7.00	90.00	5,890.99	0.00	161.54	1.24	0.00	0.00	0.00
6,000.00	7.00	90.00	5,990.25	0.00	173.73	1.33	0.00	0.00	0.00
6,100.00	7.00	90.00	6,089.50	0.00	185.91	1.43	0.00	0.00	0.00
6,200.00	7.00	90.00	6,188.76	0.00	198.10	1.52	0.00	0.00	0.00
6,223.23	7.00	90.00	6,211.81	0.00	200.93	1.54	0.00	0.00	0.00
Cherry Canyon									
6,300.00	7.00	90.00	6,288.01	0.00	210.29	1.61	0.00	0.00	0.00
6,400.00	7.00	90.00	6,387.26	0.00	222.48	1.71	0.00	0.00	0.00
6,500.00	7.00	90.00	6,486.52	0.00	234.66	1.80	0.00	0.00	0.00
6,600.00	7.00	90.00	6,585.77	0.00	246.85	1.90	0.00	0.00	0.00
6,700.00	7.00	90.00	6,685.03	0.00	259.04	1.99	0.00	0.00	0.00
6,800.00	7.00	90.00	6,784.28	0.00	271.23	2.08	0.00	0.00	0.00
6,900.00	7.00	90.00	6,883.54	0.00	283.41	2.18	0.00	0.00	0.00
7,000.00	7.00	90.00	6,982.79	0.00	295.60	2.27	0.00	0.00	0.00
7,100.00	7.00	90.00	7,082.05	0.00	307.79	2.36	0.00	0.00	0.00
7,200.00	7.00	90.00	7,181.30	0.00	319.98	2.46	0.00	0.00	0.00
7,278.74	7.00	90.00	7,259.45	0.00	329.57	2.53	0.00	0.00	0.00
Drop									
7,300.00	6.89	90.00	7,280.56	0.00	332.15	2.55	0.50	-0.50	0.00
7,400.00	6.39	90.00	7,379.89	0.00	343.72	2.64	0.50	-0.50	0.00
7,500.00	5.89	90.00	7,479.31	0.00	354.42	2.72	0.50	-0.50	0.00
7,600.00	5.39	90.00	7,578.83	0.00	364.25	2.80	0.50	-0.50	0.00
7,700.00	4.89	90.00	7,678.42	0.00	373.22	2.87	0.50	-0.50	0.00
7,800.00	4.39	90.00	7,778.09	0.00	381.32	2.93	0.50	-0.50	0.00
7,832.82	4.23	90.00	7,810.82	0.00	383.78	2.95	0.50	-0.50	0.00
Brushy Canyon									
7,900.00	3.89	90.00	7,877.83	0.00	388.54	2.98	0.50	-0.50	0.00
8,000.00	3.39	90.00	7,977.63	0.00	394.90	3.03	0.50	-0.50	0.00
8,100.00	2.89	90.00	8,077.48	0.00	400.38	3.07	0.50	-0.50	0.00
8,200.00	2.39	90.00	8,177.37	0.00	405.00	3.11	0.50	-0.50	0.00
8,300.00	1.89	90.00	8,277.30	0.00	408.74	3.14	0.50	-0.50	0.00
8,400.00	1.39	90.00	8,377.26	0.00	411.61	3.16	0.50	-0.50	0.00
8,500.00	0.89	90.00	8,477.24	0.00	413.60	3.18	0.50	-0.50	0.00
8,600.00	0.39	90.00	8,577.23	0.00	414.73	3.18	0.50	-0.50	0.00
8,678.83	0.00	0.00	8,656.06	0.00	415.00	3.19	0.50	-0.50	0.00
Hold									
8,700.00	0.00	0.00	8,677.23	0.00	415.00	3.19	0.00	0.00	0.00

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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)
8,800.00	0.00	0.00	8,777.23	0.00	415.00	3.19	0.00	0.00	0.00
8,849.59	0.00	0.00	8,826.82	0.00	415.00	3.19	0.00	0.00	0.00
Madera									
8,878.83	0.00	0.00	8,856.06	0.00	415.00	3.19	0.00	0.00	0.00
KOP 10° DLS									
8,900.00	2.12	179.56	8,877.23	-0.39	415.00	3.58	10.00	10.00	0.00
8,950.00	7.12	179.56	8,927.05	-4.41	415.03	7.60	10.00	10.00	0.00
8,952.83	7.40	179.56	8,929.86	-4.77	415.04	7.96	10.00	10.00	0.00
Lower Brushy Canyon									
9,000.00	12.12	179.56	8,976.33	-12.77	415.10	15.95	10.00	10.00	0.00
9,050.00	17.12	179.56	9,024.70	-25.38	415.20	28.57	10.00	10.00	0.00
9,100.00	22.12	179.56	9,071.78	-42.16	415.33	45.35	10.00	10.00	0.00
9,127.75	24.89	179.56	9,097.22	-53.22	415.41	56.41	10.00	10.00	0.00
1st BSPG Lime									
9,150.00	27.12	179.56	9,117.22	-62.98	415.49	66.17	10.00	10.00	0.00
9,200.00	32.12	179.56	9,160.68	-87.68	415.68	90.87	10.00	10.00	0.00
9,250.00	37.12	179.56	9,201.81	-116.08	415.90	119.27	10.00	10.00	0.00
9,270.32	39.15	179.56	9,217.79	-128.62	415.99	131.81	10.00	10.00	0.00
Leonard A									
9,300.00	42.12	179.56	9,240.31	-147.95	416.14	151.14	10.00	10.00	0.00
9,350.00	47.12	179.56	9,275.89	-183.05	416.41	186.25	10.00	10.00	0.00
9,384.18	50.53	179.56	9,298.39	-208.78	416.61	211.97	10.00	10.00	0.00
Leonard A Mid Carbonate									
9,400.00	52.12	179.56	9,308.28	-221.13	416.71	224.32	10.00	10.00	0.00
9,450.00	57.12	179.56	9,337.22	-261.88	417.02	265.07	10.00	10.00	0.00
9,500.00	62.12	179.56	9,362.50	-305.00	417.35	308.19	10.00	10.00	0.00
9,550.00	67.12	179.56	9,383.93	-350.15	417.70	353.35	10.00	10.00	0.00
9,600.00	72.12	179.56	9,401.34	-397.01	418.06	400.21	10.00	10.00	0.00
9,634.98	75.62	179.56	9,411.06	-430.61	418.32	433.81	10.00	10.00	0.00
Leonard A Target Top									
9,650.00	77.12	179.56	9,414.60	-445.20	418.43	448.40	10.00	10.00	0.00
9,700.00	82.12	179.56	9,423.60	-494.36	418.81	497.57	10.00	10.00	0.00
9,750.00	87.12	179.56	9,428.29	-544.13	419.20	547.33	10.00	10.00	0.00
9,774.57	89.57	179.56	9,429.00	-568.68	419.39	571.89	10.00	10.00	0.00
LP									
9,800.00	89.57	179.56	9,429.19	-594.11	419.58	597.32	0.00	0.00	0.00
9,900.00	89.57	179.56	9,429.93	-694.11	420.35	697.31	0.00	0.00	0.00
10,000.00	89.57	179.56	9,430.68	-794.10	421.13	797.31	0.00	0.00	0.00
10,100.00	89.57	179.56	9,431.42	-894.09	421.90	897.31	0.00	0.00	0.00
10,200.00	89.57	179.56	9,432.16	-994.09	422.67	997.31	0.00	0.00	0.00
10,300.00	89.57	179.56	9,432.90	-1,094.08	423.44	1,097.30	0.00	0.00	0.00
10,400.00	89.57	179.56	9,433.64	-1,194.08	424.21	1,197.30	0.00	0.00	0.00
10,500.00	89.57	179.56	9,434.39	-1,294.07	424.98	1,297.30	0.00	0.00	0.00
10,600.00	89.57	179.56	9,435.13	-1,394.07	425.75	1,397.29	0.00	0.00	0.00
10,700.00	89.57	179.56	9,435.87	-1,494.06	426.53	1,497.29	0.00	0.00	0.00
10,800.00	89.57	179.56	9,436.61	-1,594.05	427.30	1,597.29	0.00	0.00	0.00
10,900.00	89.57	179.56	9,437.36	-1,694.05	428.07	1,697.29	0.00	0.00	0.00
11,000.00	89.57	179.56	9,438.10	-1,794.04	428.84	1,797.28	0.00	0.00	0.00
11,100.00	89.57	179.56	9,438.84	-1,894.04	429.61	1,897.28	0.00	0.00	0.00
11,200.00	89.57	179.56	9,439.58	-1,994.03	430.38	1,997.28	0.00	0.00	0.00
11,300.00	89.57	179.56	9,440.33	-2,094.03	431.15	2,097.28	0.00	0.00	0.00
11,400.00	89.57	179.56	9,441.07	-2,194.02	431.93	2,197.27	0.00	0.00	0.00
11,500.00	89.57	179.56	9,441.81	-2,294.01	432.70	2,297.27	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Site: Boomsiang 14-23 Fed
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 2H
TVD Reference: 3599.8' GL + 25' RKB @ 3624.80usft
MD Reference: 3599.8' GL + 25' RKB @ 3624.80usft
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)
11,600.00	89.57	179.56	9,442.55	-2,394.01	433.47	2,397.27	0.00	0.00	0.00
11,700.00	89.57	179.56	9,443.29	-2,494.00	434.24	2,497.26	0.00	0.00	0.00
11,800.00	89.57	179.56	9,444.04	-2,594.00	435.01	2,597.26	0.00	0.00	0.00
11,900.00	89.57	179.56	9,444.78	-2,693.99	435.78	2,697.26	0.00	0.00	0.00
12,000.00	89.57	179.56	9,445.52	-2,793.99	436.55	2,797.26	0.00	0.00	0.00
12,100.00	89.57	179.56	9,446.26	-2,893.98	437.33	2,897.25	0.00	0.00	0.00
12,200.00	89.57	179.56	9,447.01	-2,993.97	438.10	2,997.25	0.00	0.00	0.00
12,300.00	89.57	179.56	9,447.75	-3,093.97	438.87	3,097.25	0.00	0.00	0.00
12,400.00	89.57	179.56	9,448.49	-3,193.96	439.64	3,197.24	0.00	0.00	0.00
12,500.00	89.57	179.56	9,449.23	-3,293.96	440.41	3,297.24	0.00	0.00	0.00
12,600.00	89.57	179.56	9,449.98	-3,393.95	441.18	3,397.24	0.00	0.00	0.00
12,700.00	89.57	179.56	9,450.72	-3,493.95	441.95	3,497.24	0.00	0.00	0.00
12,800.00	89.57	179.56	9,451.46	-3,593.94	442.73	3,597.23	0.00	0.00	0.00
12,900.00	89.57	179.56	9,452.20	-3,693.93	443.50	3,697.23	0.00	0.00	0.00
13,000.00	89.57	179.56	9,452.95	-3,793.93	444.27	3,797.23	0.00	0.00	0.00
13,100.00	89.57	179.56	9,453.69	-3,893.92	445.04	3,897.23	0.00	0.00	0.00
13,200.00	89.57	179.56	9,454.43	-3,993.92	445.81	3,997.22	0.00	0.00	0.00
13,300.00	89.57	179.56	9,455.17	-4,093.91	446.58	4,097.22	0.00	0.00	0.00
13,400.00	89.57	179.56	9,455.91	-4,193.91	447.35	4,197.22	0.00	0.00	0.00
13,500.00	89.57	179.56	9,456.66	-4,293.90	448.13	4,297.21	0.00	0.00	0.00
13,600.00	89.57	179.56	9,457.40	-4,393.89	448.90	4,397.21	0.00	0.00	0.00
13,700.00	89.57	179.56	9,458.14	-4,493.89	449.67	4,497.21	0.00	0.00	0.00
13,800.00	89.57	179.56	9,458.88	-4,593.88	450.44	4,597.21	0.00	0.00	0.00
13,900.00	89.57	179.56	9,459.63	-4,693.88	451.21	4,697.20	0.00	0.00	0.00
14,000.00	89.57	179.56	9,460.37	-4,793.87	451.98	4,797.20	0.00	0.00	0.00
14,100.00	89.57	179.56	9,461.11	-4,893.87	452.75	4,897.20	0.00	0.00	0.00
14,200.00	89.57	179.56	9,461.85	-4,993.86	453.53	4,997.20	0.00	0.00	0.00
14,300.00	89.57	179.56	9,462.60	-5,093.85	454.30	5,097.19	0.00	0.00	0.00
14,400.00	89.57	179.56	9,463.34	-5,193.85	455.07	5,197.19	0.00	0.00	0.00
14,500.00	89.57	179.56	9,464.08	-5,293.84	455.84	5,297.19	0.00	0.00	0.00
14,600.00	89.57	179.56	9,464.82	-5,393.84	456.61	5,397.18	0.00	0.00	0.00
14,700.00	89.57	179.56	9,465.56	-5,493.83	457.38	5,497.18	0.00	0.00	0.00
14,800.00	89.57	179.56	9,466.31	-5,593.83	458.15	5,597.18	0.00	0.00	0.00
14,900.00	89.57	179.56	9,467.05	-5,693.82	458.93	5,697.18	0.00	0.00	0.00
15,000.00	89.57	179.56	9,467.79	-5,793.81	459.70	5,797.17	0.00	0.00	0.00
15,100.00	89.57	179.56	9,468.53	-5,893.81	460.47	5,897.17	0.00	0.00	0.00
15,200.00	89.57	179.56	9,469.28	-5,993.80	461.24	5,997.17	0.00	0.00	0.00
15,300.00	89.57	179.56	9,470.02	-6,093.80	462.01	6,097.17	0.00	0.00	0.00
15,400.00	89.57	179.56	9,470.76	-6,193.79	462.78	6,197.16	0.00	0.00	0.00
15,500.00	89.57	179.56	9,471.50	-6,293.79	463.55	6,297.16	0.00	0.00	0.00
15,600.00	89.57	179.56	9,472.25	-6,393.78	464.33	6,397.16	0.00	0.00	0.00
15,700.00	89.57	179.56	9,472.99	-6,493.77	465.10	6,497.15	0.00	0.00	0.00
15,800.00	89.57	179.56	9,473.73	-6,593.77	465.87	6,597.15	0.00	0.00	0.00
15,900.00	89.57	179.56	9,474.47	-6,693.76	466.64	6,697.15	0.00	0.00	0.00
16,000.00	89.57	179.56	9,475.21	-6,793.76	467.41	6,797.15	0.00	0.00	0.00
16,100.00	89.57	179.56	9,475.96	-6,893.75	468.18	6,897.14	0.00	0.00	0.00
16,200.00	89.57	179.56	9,476.70	-6,993.75	468.95	6,997.14	0.00	0.00	0.00
16,300.00	89.57	179.56	9,477.44	-7,093.74	469.73	7,097.14	0.00	0.00	0.00
16,400.00	89.57	179.56	9,478.18	-7,193.73	470.50	7,197.13	0.00	0.00	0.00
16,500.00	89.57	179.56	9,478.93	-7,293.73	471.27	7,297.13	0.00	0.00	0.00
16,600.00	89.57	179.56	9,479.67	-7,393.72	472.04	7,397.13	0.00	0.00	0.00
16,700.00	89.57	179.56	9,480.41	-7,493.72	472.81	7,497.13	0.00	0.00	0.00
16,800.00	89.57	179.56	9,481.15	-7,593.71	473.58	7,597.12	0.00	0.00	0.00
16,900.00	89.57	179.56	9,481.90	-7,693.71	474.35	7,697.12	0.00	0.00	0.00

LEAM Drilling Systems LLC

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 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)
17,000.00	89.57	179.56	9,482.64	-7,793.70	475.13	7,797.12	0.00	0.00	0.00
17,100.00	89.57	179.56	9,483.38	-7,893.69	475.90	7,897.12	0.00	0.00	0.00
17,200.00	89.57	179.56	9,484.12	-7,993.69	476.67	7,997.11	0.00	0.00	0.00
17,300.00	89.57	179.56	9,484.86	-8,093.68	477.44	8,097.11	0.00	0.00	0.00
17,400.00	89.57	179.56	9,485.61	-8,193.68	478.21	8,197.11	0.00	0.00	0.00
17,500.00	89.57	179.56	9,486.35	-8,293.67	478.98	8,297.10	0.00	0.00	0.00
17,600.00	89.57	179.56	9,487.09	-8,393.67	479.75	8,397.10	0.00	0.00	0.00
17,700.00	89.57	179.56	9,487.83	-8,493.66	480.53	8,497.10	0.00	0.00	0.00
17,800.00	89.57	179.56	9,488.58	-8,593.65	481.30	8,597.10	0.00	0.00	0.00
17,900.00	89.57	179.56	9,489.32	-8,693.65	482.07	8,697.09	0.00	0.00	0.00
18,000.00	89.57	179.56	9,490.06	-8,793.64	482.84	8,797.09	0.00	0.00	0.00
18,100.00	89.57	179.56	9,490.80	-8,893.64	483.61	8,897.09	0.00	0.00	0.00
18,200.00	89.57	179.56	9,491.55	-8,993.63	484.38	8,997.09	0.00	0.00	0.00
18,300.00	89.57	179.56	9,492.29	-9,093.62	485.15	9,097.08	0.00	0.00	0.00
18,400.00	89.57	179.56	9,493.03	-9,193.62	485.93	9,197.08	0.00	0.00	0.00
18,500.00	89.57	179.56	9,493.77	-9,293.61	486.70	9,297.08	0.00	0.00	0.00
18,600.00	89.57	179.56	9,494.51	-9,393.61	487.47	9,397.07	0.00	0.00	0.00
18,700.00	89.57	179.56	9,495.26	-9,493.60	488.24	9,497.07	0.00	0.00	0.00
18,800.00	89.57	179.56	9,496.00	-9,593.60	489.01	9,597.07	0.00	0.00	0.00
18,900.00	89.57	179.56	9,496.74	-9,693.59	489.78	9,697.07	0.00	0.00	0.00
19,000.00	89.57	179.56	9,497.48	-9,793.58	490.55	9,797.06	0.00	0.00	0.00
19,100.00	89.57	179.56	9,498.23	-9,893.58	491.33	9,897.06	0.00	0.00	0.00
19,204.26	89.57	179.56	9,499.00	-9,997.83	492.13	10,001.31	0.00	0.00	0.00
TD - PBHL (B14F 2H)									

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
SHL (B14F 2H) - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	446,204.70	784,509.02	32° 13' 27.289 N	103° 32' 49.091 W
PBHL (B14F 2H) - plan hits target center - Point	0.00	0.00	9,499.00	-9,997.83	492.13	436,206.87	785,001.15	32° 11' 48.323 N	103° 32' 44.215 W

LEAM Drilling Systems LLC

Planning Report

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 Design: Plan #1

Local Co-ordinate Reference: Well 2H
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 MD Reference: 3599.8' GL + 25' RKB @ 3624.80usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,274.80	1,231.10	Rustler		0.43	179.56
1,804.80	1,761.10	Top of Salt		0.43	179.56
5,240.90	5,193.10	Base of Salt		0.43	179.56
5,240.90	5,193.10	Delaware		0.43	179.56
6,223.23	6,168.11	Cherry Canyon		0.43	179.56
7,832.82	7,767.12	Brushy Canyon		0.43	179.56
8,849.59	8,783.12	Madera		0.43	179.56
8,952.83	8,886.16	Lower Brushy Canyon		0.43	179.56
9,127.75	9,053.52	1st BSPG Lime		0.43	179.56
9,270.32	9,174.09	Leonard A		0.43	179.56
9,384.18	9,254.69	Leonard A Mid Carbonate		0.43	179.56
9,634.98	9,367.36	Leonard A Target Top		0.43	179.56

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,225.00	4,225.00	0.00	0.00	Nudge
4,925.05	4,923.31	0.00	42.71	Hold
7,278.74	7,259.45	0.00	329.57	Drop
8,678.83	8,656.06	0.00	415.00	Hold
8,878.83	8,856.06	0.00	415.00	KOP 10° DLS
9,774.57	9,429.00	-568.68	419.39	LP
19,204.26	9,499.00	-9,997.83	492.13	TD

Devon Energy, Boomslang 14-23 Fed 2H

1. Geologic Formations

TVD of target	9,499'	Pilot hole depth	N/A
MD at TD:	19,204'	Deepest expected fresh water:	90'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1,274		
Top of Salt	1,804		
Base of Salt	5,236		
Delaware	5,236		
Cherry Canyon	6,211		
Brushy Canyon	7,810		
Madera	8,826		
Lower Brushy Canyon	8,926		
1 st Bone Spring Lime	9,096		
Leonard A	9,216		
Leonard A Mid Carbonate	9,296		
Leonard A Target Top	9,407		
Leonard A Target Base	9,454		
Leonard B	9,548		

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

2. Casing Program ~~→ SEE CoA~~

SEE CoA

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1,315' 1400'	13.375"	48	H40	BTC	1.22	2.75	8.57
12.25"	0	4,300'	9.625"	40	J55	BTC	1.15	1.77	4.15
	4,300'	5,150'	9.625"	40	HCK55	BTC	1.58	1.47	4.50
8.75"	0	19,204'	5.5"	17	HCP110	BTC	1.60	1.98	2.13
BLM Minimum Safety Factor							1.125	1	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
Does casing meet API specifications? 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 intermediate 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?	

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	620	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	550	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1080	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod	540	10.9	20.6	3.31	24	Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000
	2720	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
5-1/2" Prod Two Stage	520	10.9	20.6	3.31	24	1 st Stage Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000
	2720	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool = 5200ft					
	20	10.9	20.6	3.31	24	2 nd Stage Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000
	30	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing	4950'	25%
5-1/2" Production Casing Two Stage Option	1 st Stage = 5200' / 2 nd Stage = 4950'	25%

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	--

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			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.

Y	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.
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Devon Energy, Boomslang 14-23 Fed 2H

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.
Y	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. Devon proposes the option of using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. - Wellhead will be installed by wellhead's representatives. - If the welding is performed by a third party, the wellhead's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. - Wellhead representative will install the test plug for the initial BOP test. - Wellhead will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. - If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. - Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. - Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the Uni-head. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns
See attached schematic.

5. Mud Program ~~→ SEE COA~~

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,315' 1400'	FW Gel	8.6-8.8	28-34	N/C
1,315'	5,150'	Saturated Brine	10.0-10.2	28-34	N/C
5,150'	19,204'	Cut Brine	8.5-9.3	28-34	N/C

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?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL from TD 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
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
X CBL	Production casing
X Mud log	Intermediate shoe to TD
PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4594 psi
Abnormal Temperature	No

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

Devon Energy, Boomslang 14-23 Fed 2H

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.

N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

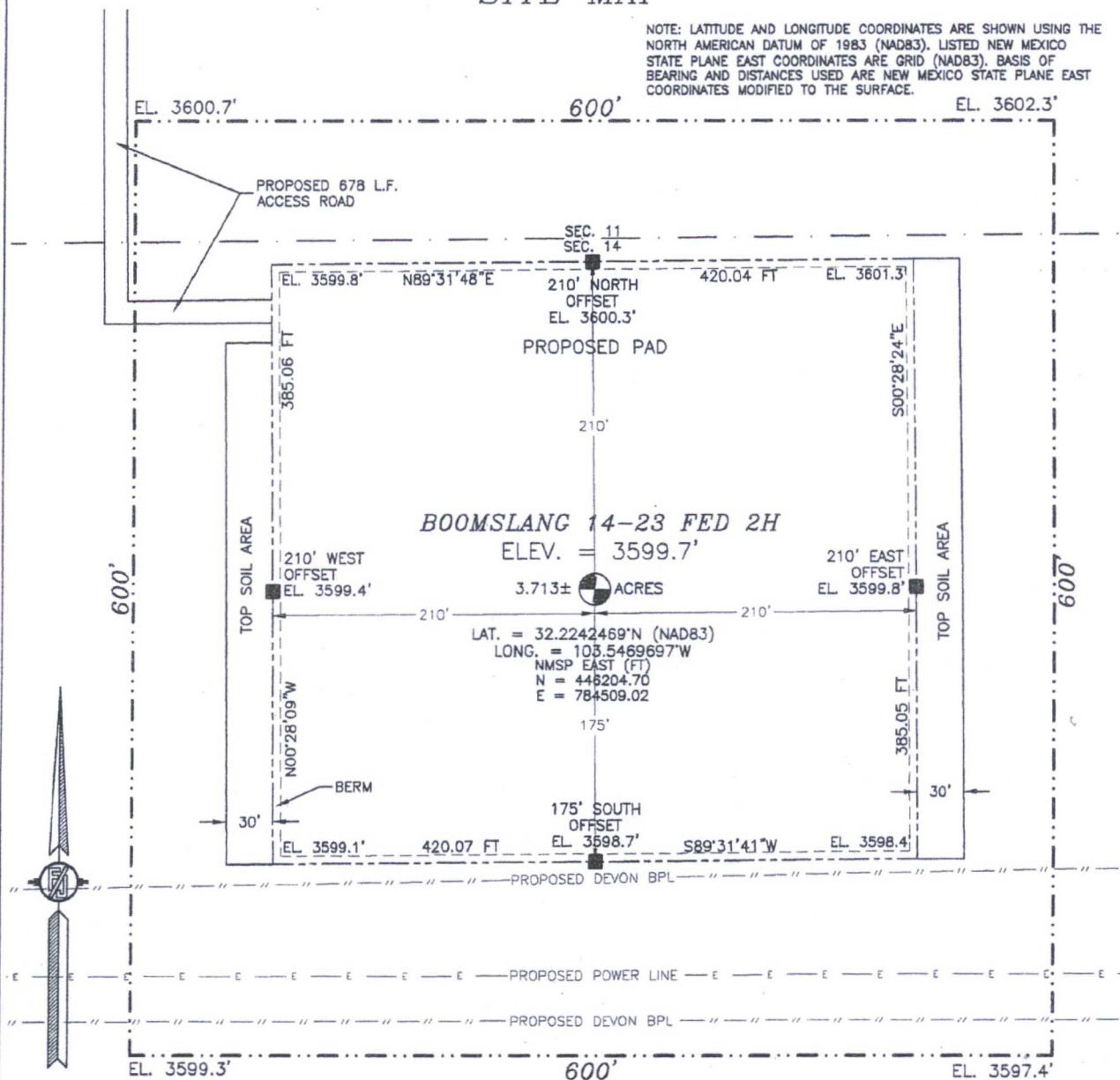
Attachments

☒ Directional Plan

☐ Other, describe

SECTION 14, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.



010 50 100 200

SCALE 1" = 100'
DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR. J2 (BRINSTOOL) GO NORTH ON CR. J2 0.85 MILE, TURN RIGHT AND GO EAST 0.5 MILE, BEND LEFT AND GO NORTH 0.25 MILE, TURN RIGHT AND GO EAST 0.69 MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 578', THEN EAST 100' TO NORTHWEST PAD CORNER FOR THIS LOCATION.

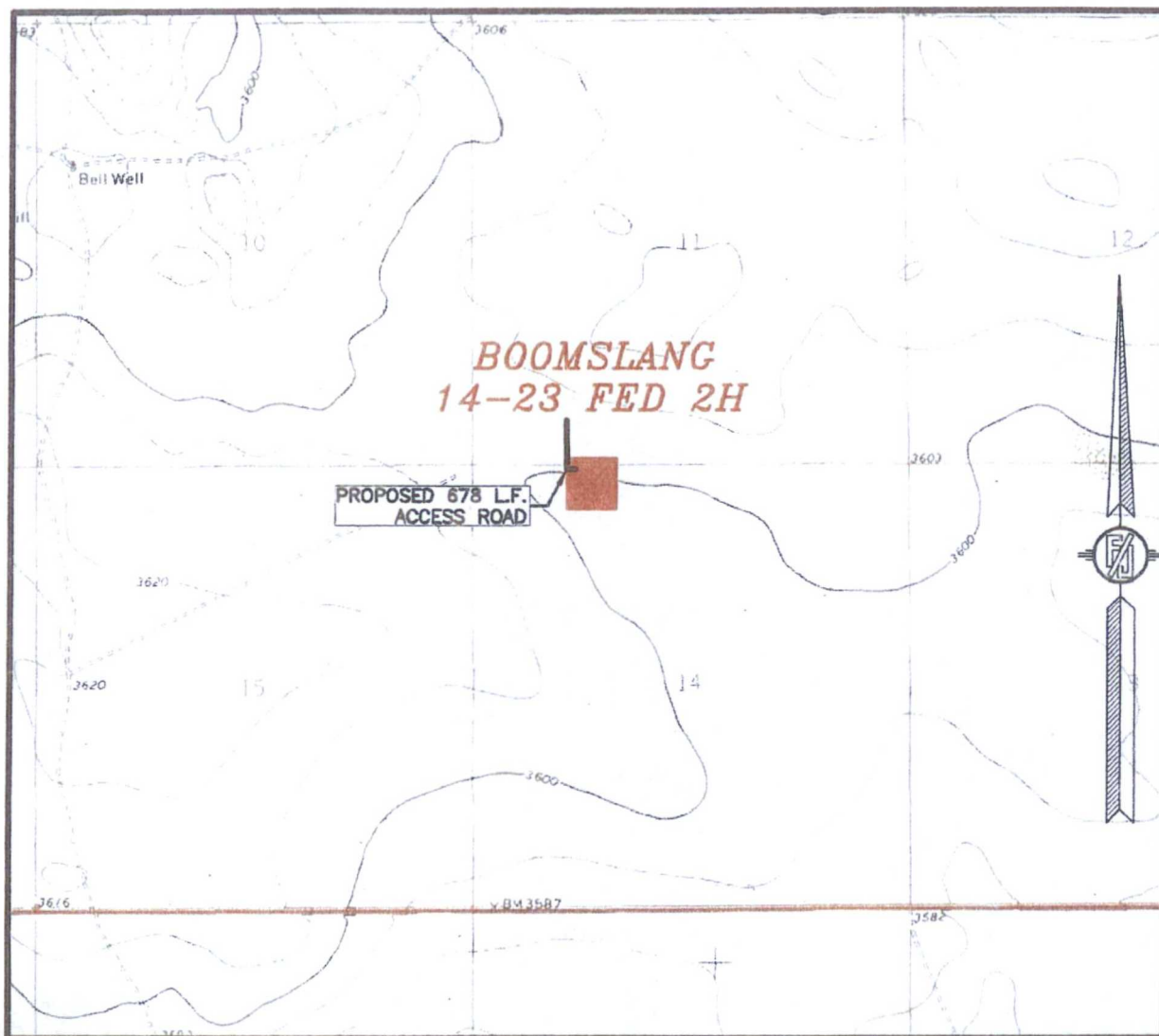
DEVON ENERGY PRODUCTION COMPANY, L.P.
BOOMSLANG 14-23 FED 2H
LOCATED 225 FT. FROM THE NORTH LINE
AND 1450 FT. FROM THE WEST LINE OF
SECTION 14, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 6, 2016

SURVEY NO. 3461D

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 14, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
BELL LKAE

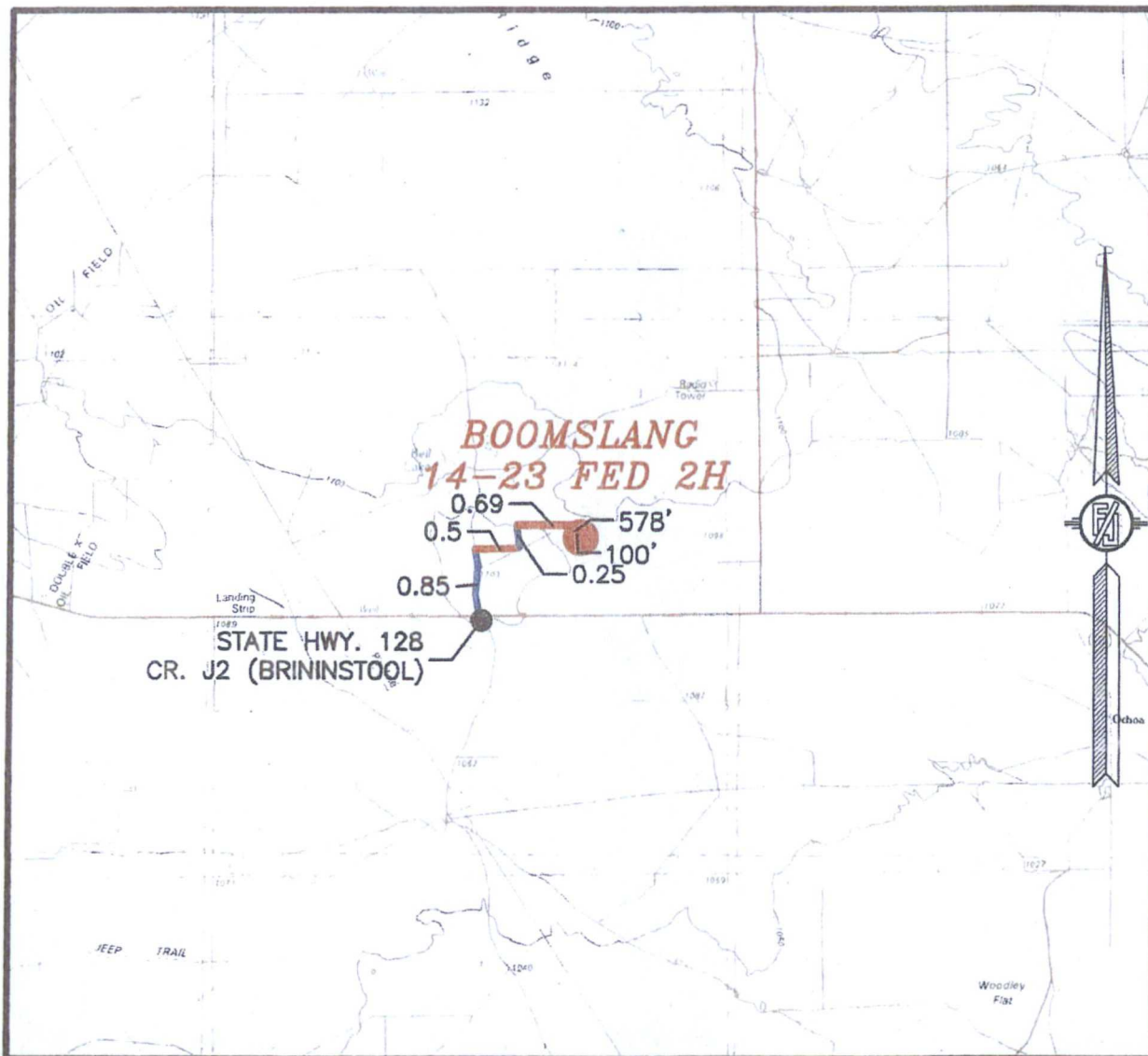
NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
BOOMSLANG 14-23 FED 2H
LOCATED 225 FT. FROM THE NORTH LINE
AND 1450 FT. FROM THE WEST LINE OF
SECTION 14, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 6, 2016

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SURVEY NO. 3461D

SECTION 14, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR. J2 (BRINSTOOL) GO NORTH ON CR. J2 0.85 MILE, TURN RIGHT AND GO EAST 0.5 MILE, BEND LEFT AND GO NORTH 0.25 MILE, TURN RIGHT AND GO EAST 0.69 MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 578', THEN EAST 100' TO NORTHWEST PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.

BOOMSLANG 14-23 FED 2H

LOCATED 225 FT. FROM THE NORTH LINE

AND 1450 FT. FROM THE WEST LINE OF

SECTION 14, TOWNSHIP 24 SOUTH,

RANGE 33 EAST, N.M.P.M.

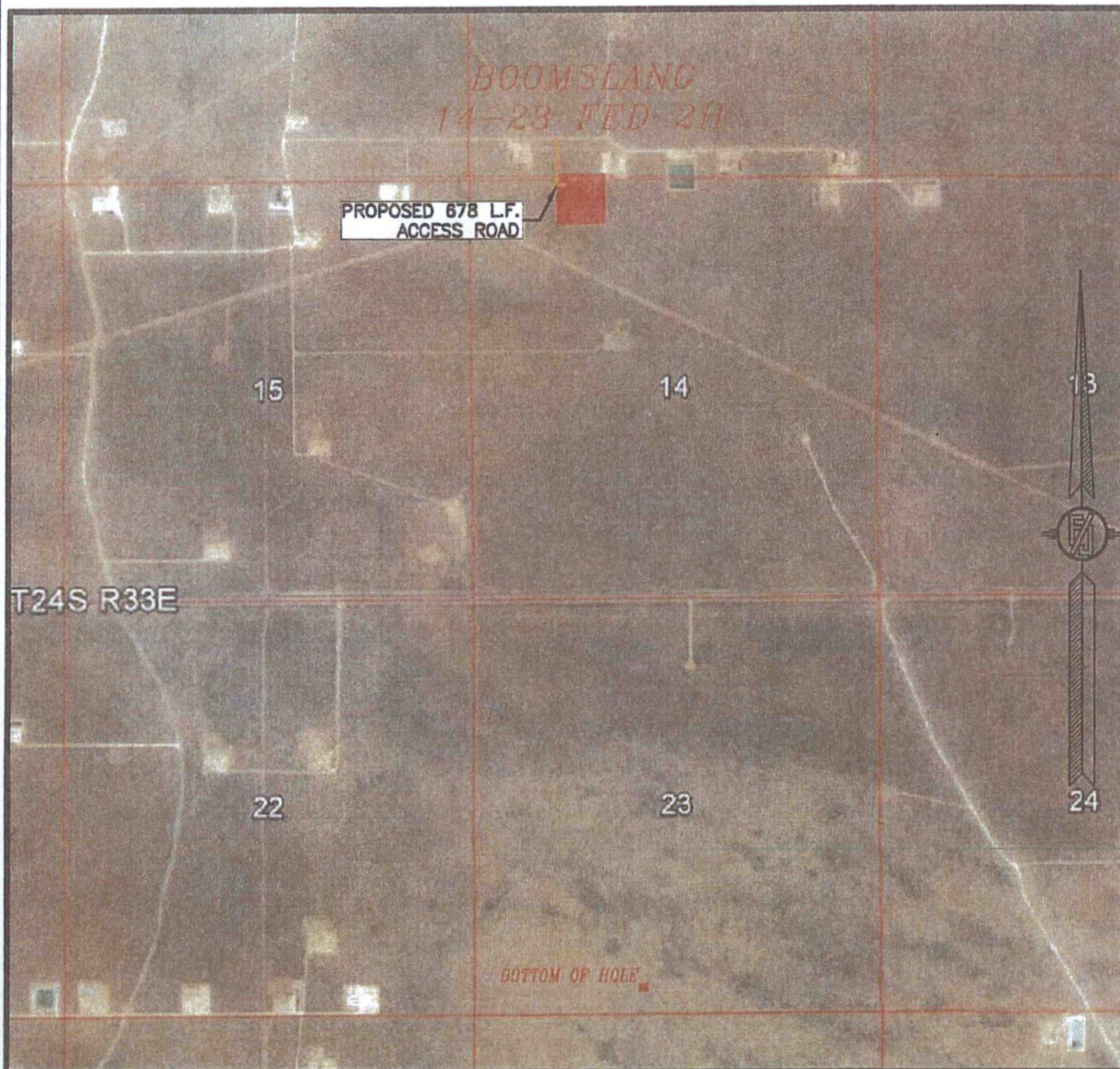
LEA COUNTY, STATE OF NEW MEXICO

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SECTION 14, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEB. 2014

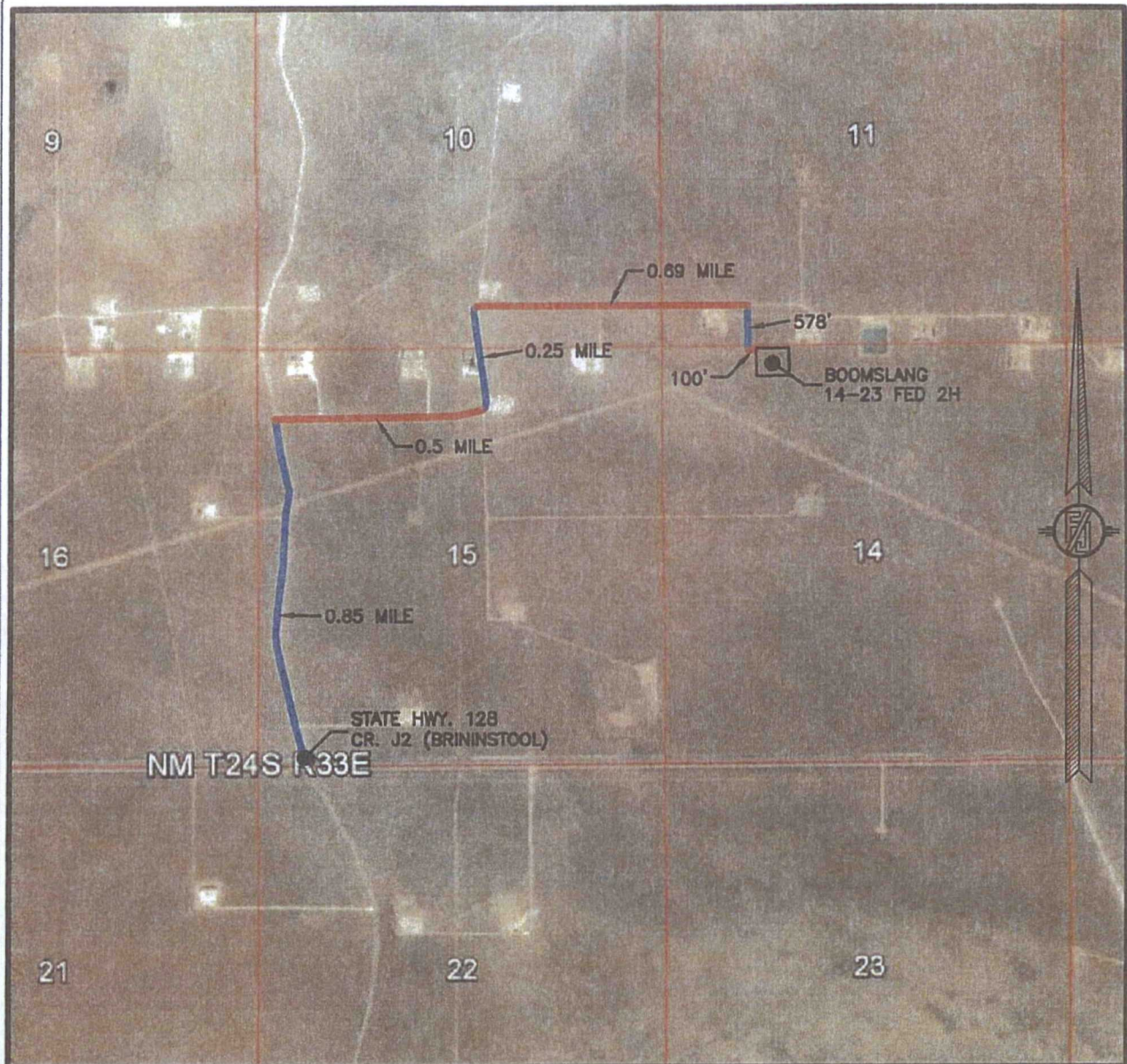
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LEA COUNTY, STATE OF NEW MEXICO

JULY 6, 2016

SURVEY NO. 3461D

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 14, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEB. 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.

BOOMSLANG 14-23 FED 2H

LOCATED 225 FT. FROM THE NORTH LINE
AND 1450 FT. FROM THE WEST LINE OF
SECTION 14, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 6, 2016

SURVEY NO. 3461D

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMLC-063798
WELL NAME & NO.:	Boomslang 14 23 Fed 2H
SURFACE HOLE FOOTAGE:	0225' FNL & 1450' FWL
BOTTOM HOLE FOOTAGE:	0330' FSL & 2188' FWL
LOCATION:	Section 14, T. 24 S., R 33 E., NMPM
COUNTY:	Lea County, New Mexico

A. CASING

All previous COAs still apply except the following:

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe; 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

1. The 13-3/8 inch surface casing shall be set at approximately 1400 feet (**in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt**) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of

the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is :

Option #1 (Single Stage):

☒ Cement as proposed by operator. Operator shall provide method of verification.

Option #2:

Operator has proposed DV tool at depth of 5200', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

a. First stage to DV tool:

☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve approved top of cement on the next stage.

b. Second stage above DV tool:

☒ Cement as proposed by operator. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.