

HOBBS OCD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

AUG 22 2016

RECEIVED

Carlsbad Field Office
OCD Hobbs

SONDRY 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.

Serial No.
48

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

8. Well Name and No.

STRAY CAT 8 FED COM 1H

2. Name of Operator

DEVON ENERGY PROD CO., L.P.

Contact: LINDA GOOD

E-Mail: linda.good@devn.com

9. API Well No.

30-025-42982

3a. Address

333 WEST SHERIDAN AVE.
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-552-6558

10. Field and Pool, or Exploratory

SAND DUNES; BONE SPRING

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

Sec 8 T23S R32E Mer NMP SWSW 211FSL 660FWL

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 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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.)

Devon Energy Production Co., L.P. respectfully requests to change the bottom hole location from 330' FNL & 660' FWL to 290' FNL & 360' FWL, along with the intermediate casing weight and grade to 36# J-55 from surface to 4,300' and 40# J-55 to 4,650'. Devon Energy also requests to add a two stage cement contingency option for the production casing and switch the primary slurry to contain a 9 ppg lead slurry.

Please see attached revised plat, drilling plan and directional plan.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Electronic Submission #346681 verified by the BLM Well Information System
For DEVON ENERGY PROD CO., L.P., sent to the Hobbs
Committed to AFMSS for processing by MUSTAFA HAQUE on 08/16/2016 ()

Name (Printed/Typed) LINDA GOOD

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 08/04/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

mustafa Haque

Title

PETROLEUM ENGINEER

Date

08-17-2016

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.

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

Devon Energy

Planning Report

Database: EDM r5000 US Production
Company: Devon US
Project: Delaware Basin
Site: Sec 8-23S-32E
Well: Stray Cat 8 Fed Com 1H
Wellbore: Original Hole
Design: Plan 2

Local Co-ordinate Reference: Well Stray Cat 8 Fed Com 1H
TVD Reference: KB @ 3616.40ft
MD Reference: KB @ 3616.40ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Delaware Basin		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 8-23S-32E			
Site Position:		Northing:	483,005.73 usft	Latitude: 32.326292
From:	Lat/Long	Easting:	735,349.80 usft	Longitude: -103.705234
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.34 °

Well	Stray Cat 8 Fed Com 1H			
Well Position	+N/-S	-5,063.64 ft	Northing:	477,942.09 usft
	+E/-W	693.65 ft	Easting:	736,043.44 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level: 3,592.90 ft

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,300.00	7.25	240.00	6,297.87	-25.27	-43.78	0.91	0.91	0.00	240.00	
8,500.00	7.25	240.00	8,480.28	-164.09	-284.22	0.00	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,278.14	-189.37	-327.99	0.91	-0.91	0.00	180.00	
10,000.00	0.00	0.00	9,978.14	-189.37	-327.99	0.00	0.00	0.00	0.00	
10,200.00	20.00	0.00	10,174.11	-154.81	-327.99	10.00	10.00	0.00	0.00	
10,818.02	90.20	0.00	10,506.00	320.94	-327.99	11.36	11.36	0.00	0.00	
15,274.56	90.20	0.00	10,490.44	4,777.45	-327.99	0.00	0.00	0.00	0.00	BHL_Stray Cat

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MD Reference: KB @ 3616.40ft
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 (°/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
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
1,700.00	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
1,900.00	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
4,300.00	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

Devon Energy

Planning Report

Database: EDM r5000 US Production
 Company: Devon US
 Project: Delaware Basin
 Site: Sec 8-23S-32E
 Well: Stray Cat 8 Fed Com 1H
 Wellbore: Original Hole
 Design: Plan 2

Local Co-ordinate Reference: Well Stray Cat 8 Fed Com 1H
 TVD Reference: KB @ 3616.40ft
 MID Reference: KB @ 3616.40ft
 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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
5,600.00	0.91	240.00	5,600.00	-0.40	-0.68	-0.40	0.91	0.91	0.00
5,700.00	1.81	240.00	5,699.97	-1.58	-2.74	-1.58	0.91	0.91	0.00
5,800.00	2.72	240.00	5,799.89	-3.56	-6.16	-3.56	0.91	0.91	0.00
5,900.00	3.63	240.00	5,899.73	-6.32	-10.95	-6.32	0.91	0.91	0.00
6,000.00	4.53	240.00	5,999.48	-9.88	-17.11	-9.88	0.91	0.91	0.00
6,100.00	5.44	240.00	6,099.10	-14.22	-24.64	-14.22	0.91	0.91	0.00
6,200.00	6.34	240.00	6,198.57	-19.36	-33.53	-19.36	0.91	0.91	0.00
6,300.00	7.25	240.00	6,297.87	-25.27	-43.78	-25.27	0.91	0.91	0.00
6,400.00	7.25	240.00	6,397.07	-31.58	-54.70	-31.58	0.00	0.00	0.00
6,500.00	7.25	240.00	6,496.27	-37.89	-65.63	-37.89	0.00	0.00	0.00
6,600.00	7.25	240.00	6,595.47	-44.20	-76.56	-44.20	0.00	0.00	0.00
6,700.00	7.25	240.00	6,694.67	-50.51	-87.49	-50.51	0.00	0.00	0.00
6,800.00	7.25	240.00	6,793.87	-56.82	-98.42	-56.82	0.00	0.00	0.00
6,900.00	7.25	240.00	6,893.07	-63.13	-109.35	-63.13	0.00	0.00	0.00
7,000.00	7.25	240.00	6,992.27	-69.44	-120.28	-69.44	0.00	0.00	0.00
7,100.00	7.25	240.00	7,091.47	-75.75	-131.21	-75.75	0.00	0.00	0.00
7,200.00	7.25	240.00	7,190.67	-82.06	-142.14	-82.06	0.00	0.00	0.00
7,300.00	7.25	240.00	7,289.87	-88.37	-153.07	-88.37	0.00	0.00	0.00
7,400.00	7.25	240.00	7,389.07	-94.68	-164.00	-94.68	0.00	0.00	0.00
7,500.00	7.25	240.00	7,488.27	-100.99	-174.92	-100.99	0.00	0.00	0.00
7,600.00	7.25	240.00	7,587.47	-107.30	-185.85	-107.30	0.00	0.00	0.00
7,700.00	7.25	240.00	7,686.67	-113.61	-196.78	-113.61	0.00	0.00	0.00
7,800.00	7.25	240.00	7,785.87	-119.92	-207.71	-119.92	0.00	0.00	0.00
7,900.00	7.25	240.00	7,885.07	-126.23	-218.64	-126.23	0.00	0.00	0.00
8,000.00	7.25	240.00	7,984.28	-132.54	-229.57	-132.54	0.00	0.00	0.00
8,100.00	7.25	240.00	8,083.48	-138.85	-240.50	-138.85	0.00	0.00	0.00
8,200.00	7.25	240.00	8,182.68	-145.16	-251.43	-145.16	0.00	0.00	0.00
8,300.00	7.25	240.00	8,281.88	-151.47	-262.36	-151.47	0.00	0.00	0.00
8,400.00	7.25	240.00	8,381.08	-157.78	-273.29	-157.78	0.00	0.00	0.00
8,500.00	7.25	240.00	8,480.28	-164.09	-284.22	-164.09	0.00	0.00	0.00
8,600.00	6.34	240.00	8,579.57	-170.01	-294.47	-170.01	0.91	-0.91	0.00
8,700.00	5.44	240.00	8,679.05	-175.14	-303.35	-175.14	0.91	-0.91	0.00
8,800.00	4.53	240.00	8,778.67	-179.49	-310.88	-179.49	0.91	-0.91	0.00
8,900.00	3.63	240.00	8,878.41	-183.04	-317.04	-183.04	0.91	-0.91	0.00
9,000.00	2.72	240.00	8,978.26	-185.81	-321.83	-185.81	0.91	-0.91	0.00
9,100.00	1.81	240.00	9,078.18	-187.78	-325.25	-187.78	0.91	-0.91	0.00
9,200.00	0.91	240.00	9,178.15	-188.97	-327.31	-188.97	0.91	-0.91	0.00
9,300.00	0.00	0.00	9,278.14	-189.37	-327.99	-189.37	0.91	-0.91	0.00
9,400.00	0.00	0.00	9,378.14	-189.37	-327.99	-189.37	0.00	0.00	0.00
9,500.00	0.00	0.00	9,478.14	-189.37	-327.99	-189.37	0.00	0.00	0.00
9,600.00	0.00	0.00	9,578.14	-189.37	-327.99	-189.37	0.00	0.00	0.00
9,700.00	0.00	0.00	9,678.14	-189.37	-327.99	-189.37	0.00	0.00	0.00
9,800.00	0.00	0.00	9,778.14	-189.37	-327.99	-189.37	0.00	0.00	0.00
9,900.00	0.00	0.00	9,878.14	-189.37	-327.99	-189.37	0.00	0.00	0.00
10,000.00	0.00	0.00	9,978.14	-189.37	-327.99	-189.37	0.00	0.00	0.00
10,050.00	5.00	0.00	10,028.08	-187.19	-327.99	-187.19	10.00	10.00	0.00
10,100.00	10.00	0.00	10,077.64	-180.66	-327.99	-180.66	10.00	10.00	0.00
10,150.00	15.00	0.00	10,126.44	-169.84	-327.99	-169.84	10.00	10.00	0.00
10,200.00	20.00	0.00	10,174.11	-154.81	-327.99	-154.81	10.00	10.00	0.00
10,250.00	25.68	0.00	10,220.17	-135.41	-327.99	-135.41	11.36	11.36	0.00
10,300.00	31.36	0.00	10,264.08	-111.55	-327.99	-111.55	11.36	11.36	0.00
10,350.00	37.04	0.00	10,305.42	-83.46	-327.99	-83.46	11.36	11.36	0.00

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Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,400.00	42.72	0.00	10,343.78	-51.41	-327.99	-51.41	11.36	11.36	0.00
10,450.00	48.40	0.00	10,378.77	-15.73	-327.99	-15.73	11.36	11.36	0.00
10,500.00	54.08	0.00	10,410.06	23.24	-327.99	23.24	11.36	11.36	0.00
10,550.00	59.76	0.00	10,437.35	65.12	-327.99	65.12	11.36	11.36	0.00
10,600.00	65.44	0.00	10,460.35	109.49	-327.99	109.49	11.36	11.36	0.00
10,650.00	71.11	0.00	10,478.85	155.92	-327.99	155.92	11.36	11.36	0.00
10,700.00	76.79	0.00	10,492.66	203.95	-327.99	203.95	11.36	11.36	0.00
10,750.00	82.47	0.00	10,501.66	253.11	-327.99	253.11	11.36	11.36	0.00
10,800.00	88.15	0.00	10,505.74	302.93	-327.99	302.93	11.36	11.36	0.00
10,818.02	90.20	0.00	10,506.00	320.94	-327.99	320.94	11.36	11.36	0.00
10,900.00	90.20	0.00	10,505.71	402.92	-327.99	402.92	0.00	0.00	0.00
11,000.00	90.20	0.00	10,505.37	502.92	-327.99	502.92	0.00	0.00	0.00
11,100.00	90.20	0.00	10,505.02	602.92	-327.99	602.92	0.00	0.00	0.00
11,200.00	90.20	0.00	10,504.67	702.92	-327.99	702.92	0.00	0.00	0.00
11,300.00	90.20	0.00	10,504.32	802.92	-327.99	802.92	0.00	0.00	0.00
11,400.00	90.20	0.00	10,503.97	902.92	-327.99	902.92	0.00	0.00	0.00
11,500.00	90.20	0.00	10,503.62	1,002.92	-327.99	1,002.92	0.00	0.00	0.00
11,600.00	90.20	0.00	10,503.27	1,102.92	-327.99	1,102.92	0.00	0.00	0.00
11,700.00	90.20	0.00	10,502.92	1,202.92	-327.99	1,202.92	0.00	0.00	0.00
11,800.00	90.20	0.00	10,502.57	1,302.92	-327.99	1,302.92	0.00	0.00	0.00
11,900.00	90.20	0.00	10,502.22	1,402.92	-327.99	1,402.92	0.00	0.00	0.00
12,000.00	90.20	0.00	10,501.87	1,502.92	-327.99	1,502.92	0.00	0.00	0.00
12,100.00	90.20	0.00	10,501.53	1,602.92	-327.99	1,602.92	0.00	0.00	0.00
12,200.00	90.20	0.00	10,501.18	1,702.91	-327.99	1,702.91	0.00	0.00	0.00
12,300.00	90.20	0.00	10,500.83	1,802.91	-327.99	1,802.91	0.00	0.00	0.00
12,400.00	90.20	0.00	10,500.48	1,902.91	-327.99	1,902.91	0.00	0.00	0.00
12,500.00	90.20	0.00	10,500.13	2,002.91	-327.99	2,002.91	0.00	0.00	0.00
12,600.00	90.20	0.00	10,499.78	2,102.91	-327.99	2,102.91	0.00	0.00	0.00
12,700.00	90.20	0.00	10,499.43	2,202.91	-327.99	2,202.91	0.00	0.00	0.00
12,800.00	90.20	0.00	10,499.08	2,302.91	-327.99	2,302.91	0.00	0.00	0.00
12,900.00	90.20	0.00	10,498.73	2,402.91	-327.99	2,402.91	0.00	0.00	0.00
13,000.00	90.20	0.00	10,498.38	2,502.91	-327.99	2,502.91	0.00	0.00	0.00
13,100.00	90.20	0.00	10,498.03	2,602.91	-327.99	2,602.91	0.00	0.00	0.00
13,200.00	90.20	0.00	10,497.69	2,702.91	-327.99	2,702.91	0.00	0.00	0.00
13,300.00	90.20	0.00	10,497.34	2,802.91	-327.99	2,802.91	0.00	0.00	0.00
13,400.00	90.20	0.00	10,496.99	2,902.91	-327.99	2,902.91	0.00	0.00	0.00
13,500.00	90.20	0.00	10,496.64	3,002.91	-327.99	3,002.91	0.00	0.00	0.00
13,600.00	90.20	0.00	10,496.29	3,102.91	-327.99	3,102.91	0.00	0.00	0.00
13,700.00	90.20	0.00	10,495.94	3,202.91	-327.99	3,202.91	0.00	0.00	0.00
13,800.00	90.20	0.00	10,495.59	3,302.91	-327.99	3,302.91	0.00	0.00	0.00
13,900.00	90.20	0.00	10,495.24	3,402.90	-327.99	3,402.90	0.00	0.00	0.00
14,000.00	90.20	0.00	10,494.89	3,502.90	-327.99	3,502.90	0.00	0.00	0.00
14,100.00	90.20	0.00	10,494.54	3,602.90	-327.99	3,602.90	0.00	0.00	0.00
14,200.00	90.20	0.00	10,494.19	3,702.90	-327.99	3,702.90	0.00	0.00	0.00
14,300.00	90.20	0.00	10,493.85	3,802.90	-327.99	3,802.90	0.00	0.00	0.00
14,400.00	90.20	0.00	10,493.50	3,902.90	-327.99	3,902.90	0.00	0.00	0.00
14,500.00	90.20	0.00	10,493.15	4,002.90	-327.99	4,002.90	0.00	0.00	0.00
14,600.00	90.20	0.00	10,492.80	4,102.90	-327.99	4,102.90	0.00	0.00	0.00
14,700.00	90.20	0.00	10,492.45	4,202.90	-327.99	4,202.90	0.00	0.00	0.00
14,800.00	90.20	0.00	10,492.10	4,302.90	-327.99	4,302.90	0.00	0.00	0.00
14,900.00	90.20	0.00	10,491.75	4,402.90	-327.99	4,402.90	0.00	0.00	0.00
15,000.00	90.20	0.00	10,491.40	4,502.90	-327.99	4,502.90	0.00	0.00	0.00
15,100.00	90.20	0.00	10,491.05	4,602.90	-327.99	4,602.90	0.00	0.00	0.00
15,200.00	90.20	0.00	10,490.70	4,702.90	-327.99	4,702.90	0.00	0.00	0.00

Devon Energy

Planning Report

Database:	EDM r5000 US Production	Local Co-ordinate Reference:	Well Stray Cat 8 Fed Com 1H
Company:	Devon US	TVD Reference:	KB @ 3616.40ft
Project:	Delaware Basin	MD Reference:	KB @ 3616.40ft
Site:	Sec 8-23S-32E	North Reference:	Grid
Well:	Stray Cat 8 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan 2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,274.56	90.20	0.00	10,490.44	4,777.45	-327.99	4,777.45	0.00	0.00	0.00

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Co., LP
LEASE NO.:	NMNM98826
WELL NAME & NO.:	Stray Cat 8 Fed Com 1H
SURFACE HOLE FOOTAGE:	211'/S & 660'/W
BOTTOM HOLE FOOTAGE:	290'/N & 360'/W
LOCATION:	Section 8, T.23 S., R.32 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.).

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

☒ Cement to surface. If cement does not circulate:

- a. 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 remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- c. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. 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.
Excess calculates to 22% - Additional cement might be required.

Option #2:

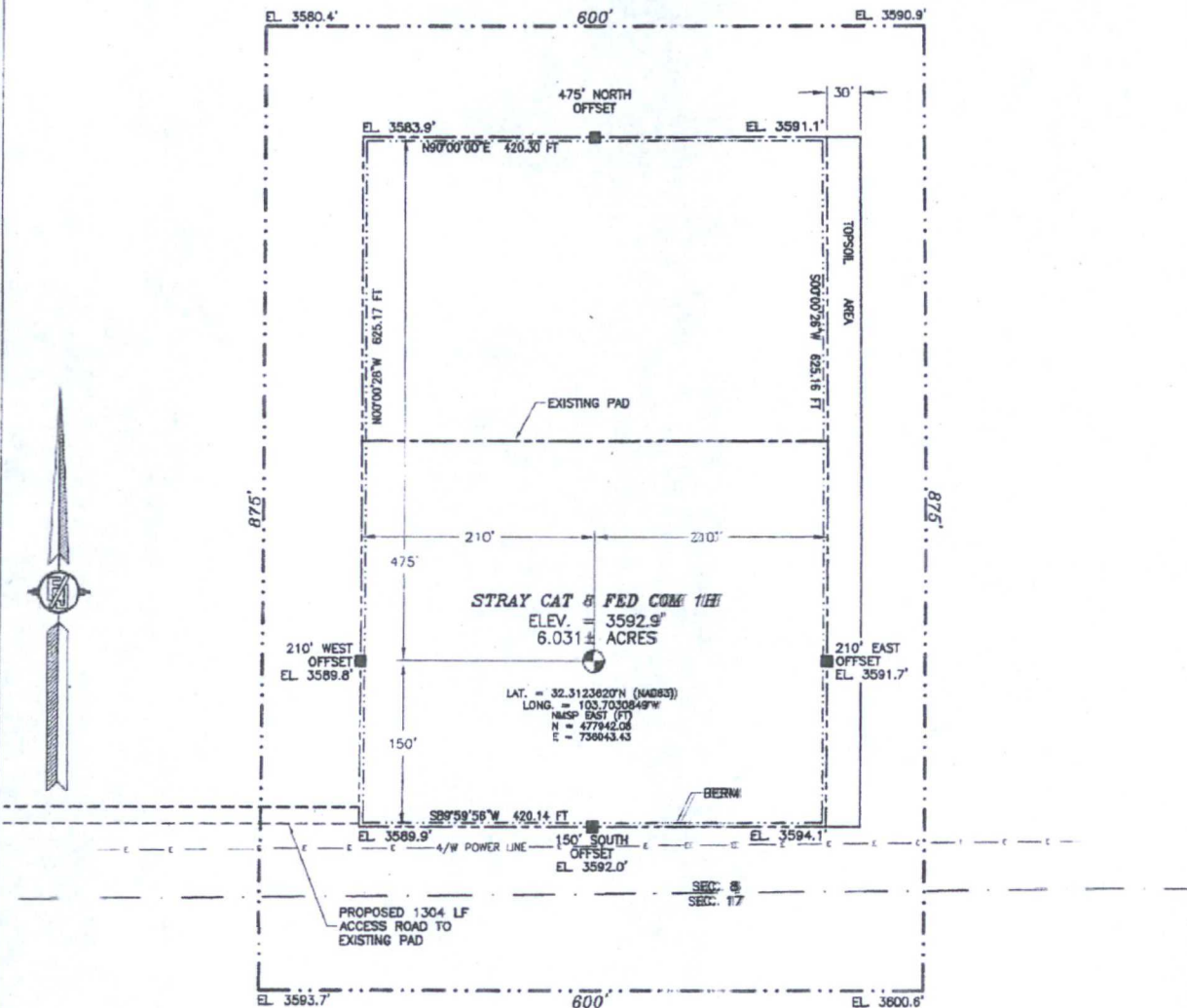
Operator has proposed DV tool at depth of 4700', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- 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. **Excess calculates to 23% - Additional cement might be required.**
- b. Second stage above DV tool:
 - ☒ Cement as proposed by operator. Operator shall provide method of verification. **Excess calculates to negative 27% - Additional cement will be required.**
- 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.

MHH 08172016

SECTION 8, TOWNSHIP 23 SOUTH, RANGE 32 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



015 75 150 300

SCALE 1" = 150'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 128 AND RED ROAD (CR 798) GO NORTH ON RED ROAD APPROX. 4.9 MILES TO A LEASE ROAD ON RIGHT (EAST), TURN EAST AT LEASE ROAD GO APPROX. 1.9 MILES, ROAD TURNS RIGHT (SOUTH), TURN SOUTH GO APPROX. 0.8 MILES TO AN EXISTING WELL PAD ON LEFT (EAST) OF ROAD BEFORE ROAD TURNS RIGHT (WEST). AT SOUTH EDGE MIDDLE OF EXISTING PAD IS A DIRT TRAIL ROAD GOING SOUTH IS A ROAD LATH WITH RED & WHITE FLAGGING, GO SOUTHEAST FOLLOW ROAD LATHS 664' TO A PI RIGHT ROAD LATH, GO SOUTH 150' TO A PI LEFT ROAD LATH, GO EAST 490' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.
STRAY CAT 8 FED COM 1H
LOCATED 211 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 8, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

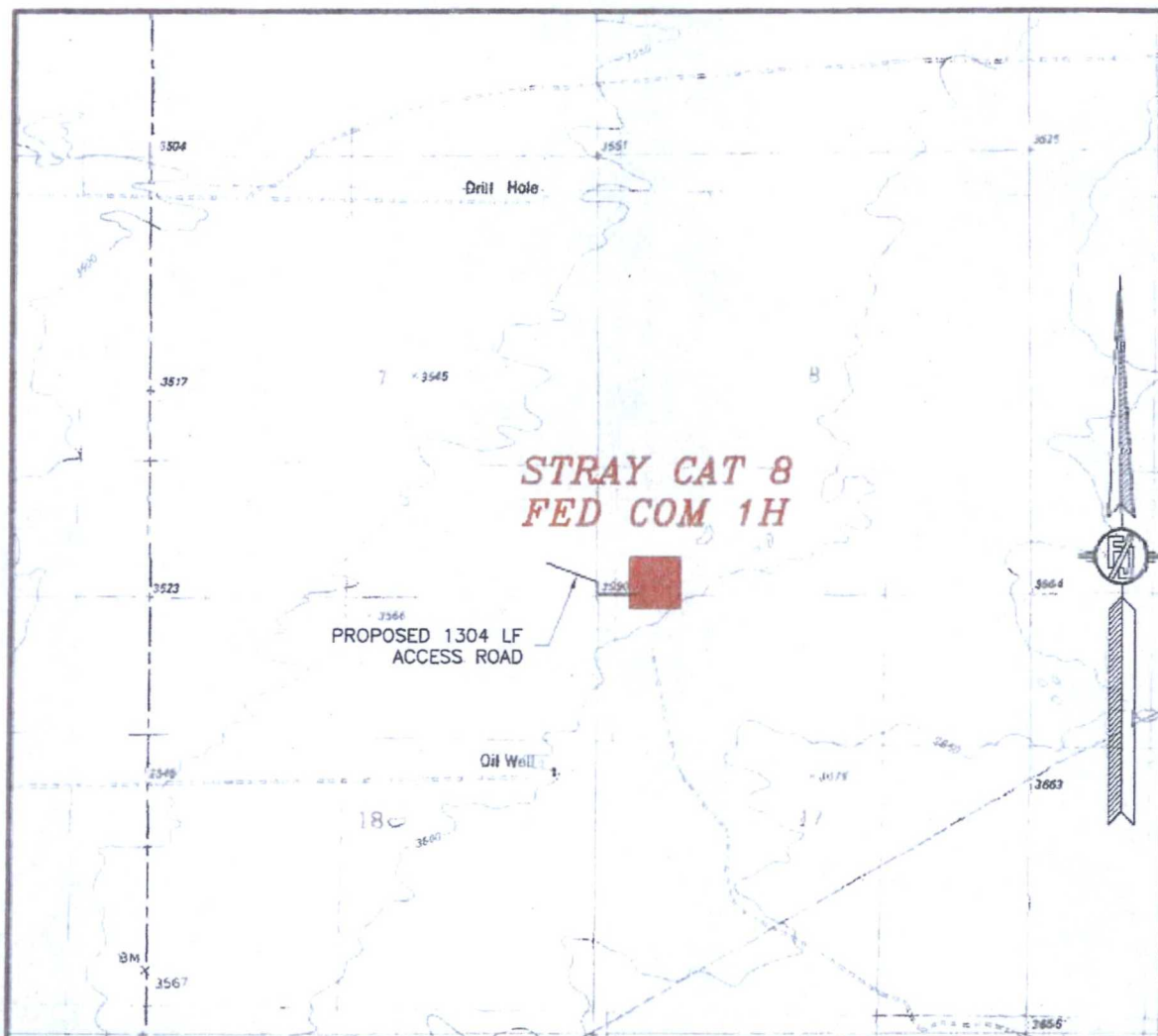
JUNE 15, 2016

SURVEY NO. 3638B

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

CARLSBAD, NEW MEXICO

SECTION 8, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
BOOTLEG RIDGE

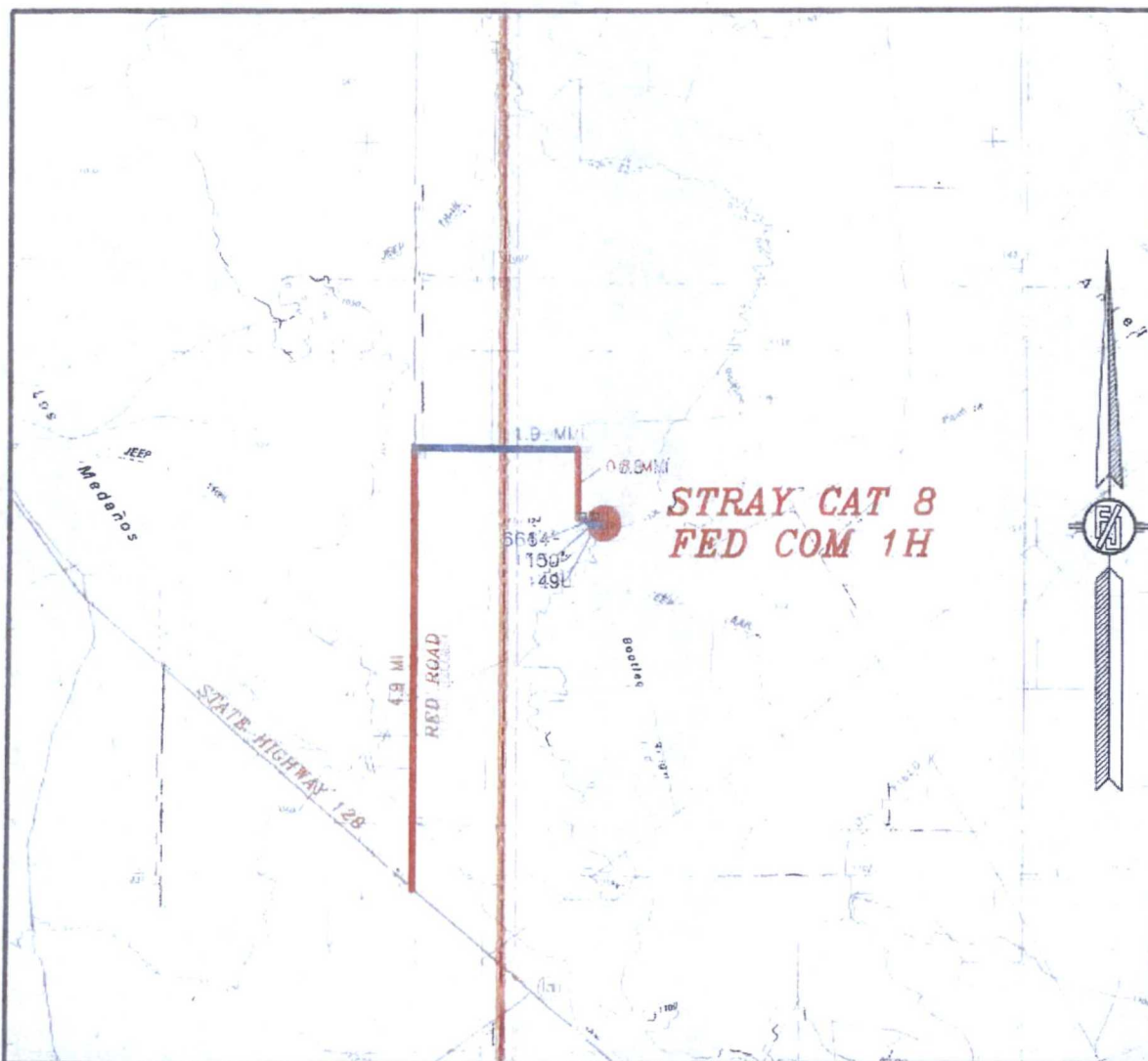
NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
STRAY CAT 8 FED COM 1H
LOCATED 211 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 8, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JUNE 15, 2016

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 3638B

SECTION 8, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRAY CAT 8 FED COM 1H

LOCATED 211 FT. FROM THE SOUTH LINE

AND 660 FT. FROM THE WEST LINE OF

SECTION 8, TOWNSHIP 23 SOUTH,

RANGE 32 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

JUNE 15, 2016

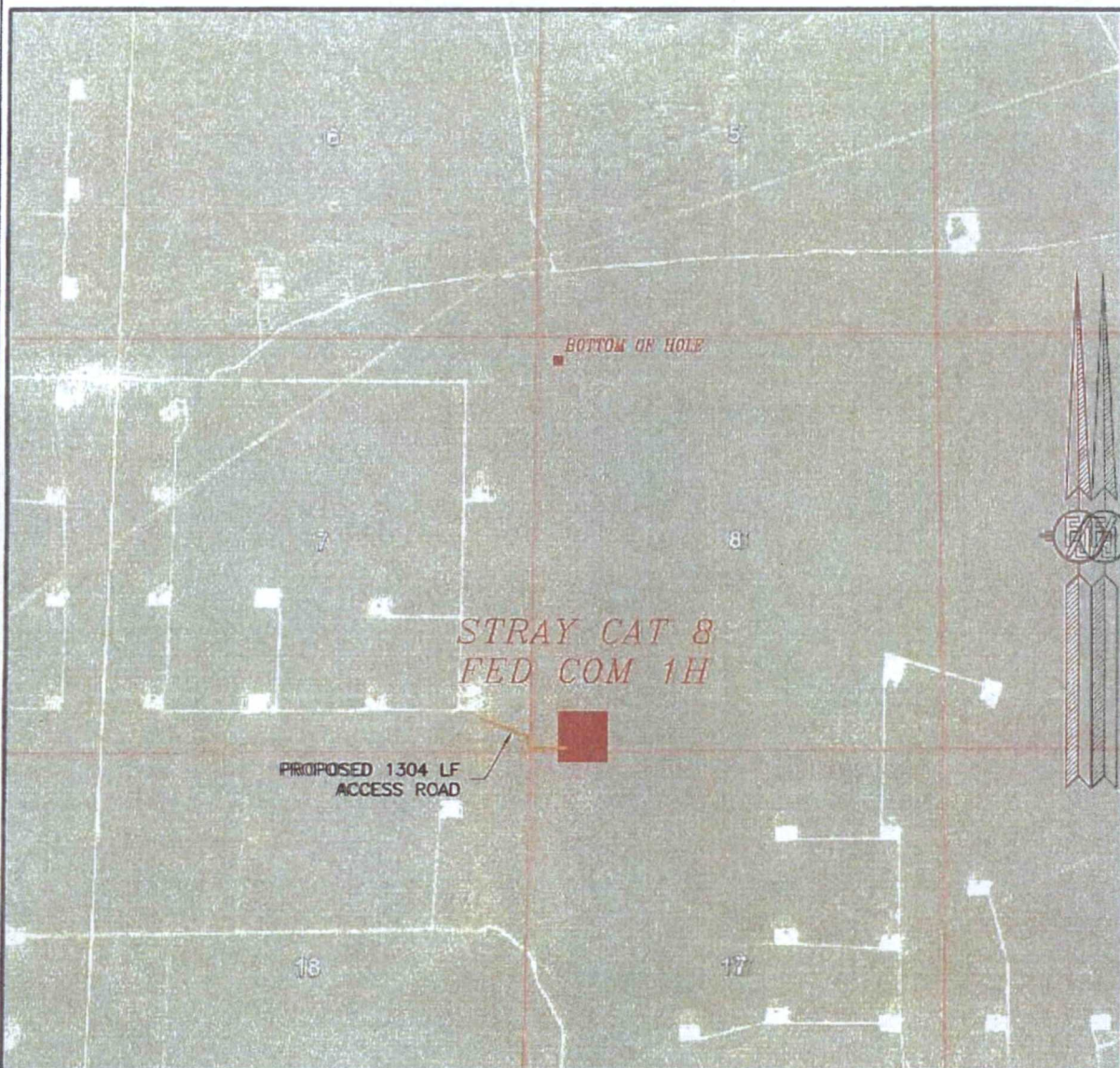
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 128 AND RED ROAD (CR 798) GO NORTH ON RED ROAD APPROX. 4.9 MILES TO A LEASE ROAD ON RIGHT (EAST), TURN EAST AT LEASE ROAD GO APPROX. 1.9 MILES, ROAD TURNS RIGHT (SOUTH), TURN SOUTH GO APPROX. 0.8 MILES TO AN EXISTING WELL PAD ON LEFT (EAST) OF ROAD BEFORE ROAD TURNS RIGHT (WEST). AT SOUTH EDGE MIDDLE OF EXISTING PAD IS A DIRT TRAIL ROAD GOING SOUTH IS A ROAD LATH WITH RED & WHITE FLAGGING, GO SOUTHEAST FOLLOW ROAD LATHS 664' TO A PI RIGHT ROAD LATH, GO SOUTH 150' TO A PI LEFT ROAD LATH, GO EAST 490' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

SURVEY NO. 3639B

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

SECTION 8, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2014

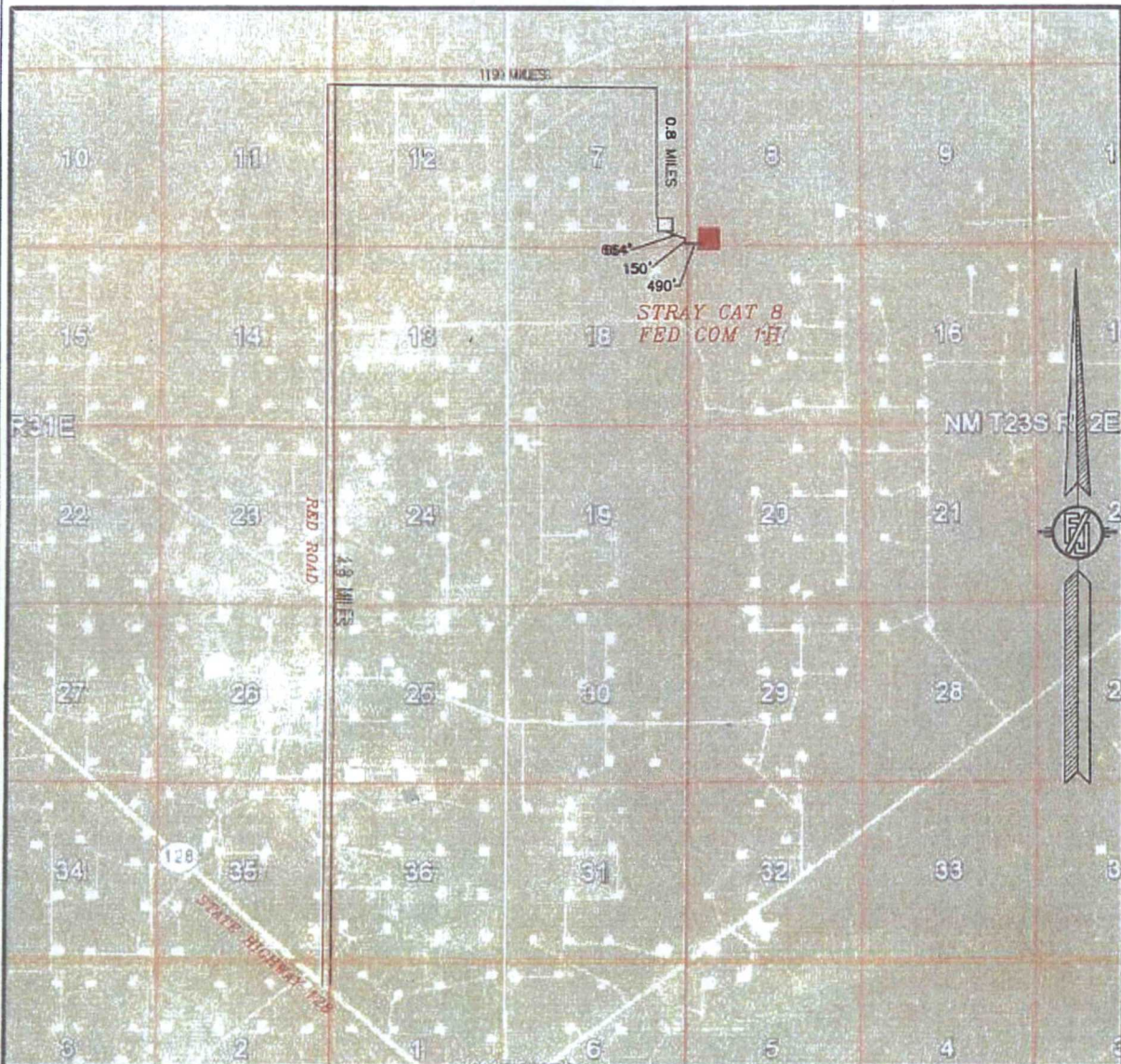
DEVON ENERGY PRODUCTION COMPANY, L.P.
STRAY CAT 8 FED COM 1H
LOCATED 211 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 8, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JUNE 15, 2016

SURVEY NO. 3638B

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

SECTION 8, TOWNSHIP 23 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
STRAY CAT 8 FED COM 1H
LOCATED 211 FT. FROM THE SOUTH LINE
AND 660 FT. FROM THE WEST LINE OF
SECTION 8, TOWNSHIP 23 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JUNE 15, 2016

SURVEY NO. 3638B

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

Stray Cat 8 Fed Com 1H Sundry Request

Casing Design

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1,075'	13.375"	48	H-40	STC	1.60	3.60	10.48
12.25"	0	3,400'	9.625"	36	J-55	LTC	1.15	1.66	1.97
12.25"	3,400'	4,650'	9.625"	40	J-55	BTC	1.18	1.81	3.10
8.75"	0	15,275'	5.5"	17	P-110	BTC	1.57	1.95	3.18
BLM Minimum Safety Factor							1.125	1.00	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

Cement Program

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strengt h (hours)	Slurry Description
13-3/8" Surf.	1150	14.8	6.32	1.33	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	960	12.9	9.81	1.85	17	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	<u>560</u>	9	13.5	<u>3.27</u>	21	Lead: Tuned Light® Cement
	<u>1340</u>	14.5	5.31	<u>1.2</u>	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	<u>508</u>	10.9	20.6	<u>3.31</u>	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
	<u>1340</u>	14.5	5.31	<u>1.2</u>	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 = 4,700ft					
	<u>20</u>	10.9	20.6	<u>3.31</u>	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
	<u>30</u>	14.8	6.32	<u>1.33</u>	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

DV tool 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	4,150'	25%
5-1/2" Production Casing Two Stage Option	1 st Stage = 4700' / 2 nd Stage = 4150'	25%

Low Cement
- SEE COA

Low Cement
SEE COA

Devon US

Delaware Basin

Sec 8-23S-32E

Stray Cat 8 Fed Com 1H

Original Hole

Plan: Plan 2

Standard Planning Report

03 August, 2016