

Well Name: RAGIN CAJUN 12-13 FED COM	Well Location: T26S / R34E / SEC 12 / NWNE /	County or Parish/State:
Well Number: 17H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM100567	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002551554	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2758511

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/27/2023

Time Sundry Submitted: 02:47

Date proposed operation will begin: 10/27/2023

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD, API 30-025-51554: BHL change from 20 FSL & 2200 FEL to 20 FSL & 1320 FEL, both 13-26S-34E. TVD/MD change from 11,110'/21,397' to 11,110'/21,431' Casing program change: Surface, Intermediate, & Production casing changes. Cement volume changes to accommodate casing change. Defining well designation change to Ragin Cajun 12-13 Fed Com 17H Please see attached revised C-102, and drilling & directional plans.

NOI Attachments

Procedure Description

Ragin_Cajun_12_13_Fed_Com_17H_Directional_Plan_10_27_23_20231027144537.pdf

RAGIN_CAJUN_12_13_FED_COM_17H_C_102_BHL_NOI_20231027144538.pdf

Ragin_Cajun_12_13_Fed_Com_17H_Drl_Plan_20231027144537.pdf

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Well Location: T26S / R34E / SEC 12 / NWNE /

County or Parish/State:

Well Number: 17H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM100567

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002551554

Well Status: Approved Application for Permit to Drill

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Ragin_Cajun_12_13_Fed_Com_17H_Sundry_ID_2758511_20231106120207.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: REBECCA DEAL

Signed on: NOV 06, 2023 09:01 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Analyst

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY **State:** OK

Phone: (303) 299-1406

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 11/06/2023

Signature: Long Vo

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWNE / 538 FNL / 1959 FEL / TWSP: 26S / RANGE: 34E / SECTION: 12 / LAT: 32.063667 / LONG: -103.42145 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2200 FEL / TWSP: 26S / RANGE: 34E / SECTION: 12 / LAT: 32.064873 / LONG: -103.422229 (TVD: 11060 feet, MD: 11241 feet)

PPP: NENW / 166 FNL / 2200 FEL / TWSP: 26S / RANGE: 34E / SECTION: 13 / LAT: 32.0501733 / LONG: -103.4222253 (TVD: 11110 feet, MD: 16300 feet)

BHL: SWSE / 20 FSL / 2200 FEL / TWSP: 26S / RANGE: 34E / SECTION: 13 / LAT: 32.036163 / LONG: -103.422223 (TVD: 11110 feet, MD: 21397 feet)

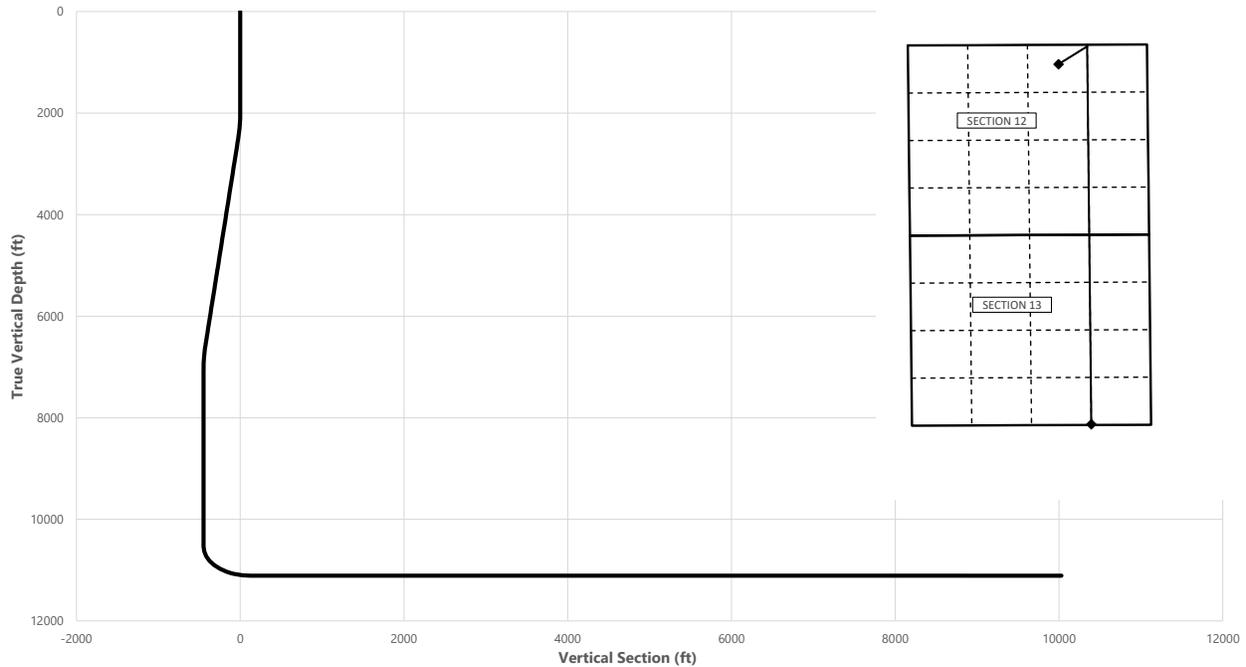
CONFIDENTIAL



Well: Ragin Cajun 12-13 Fed Com 17H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	52.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	52.00	2497.47	26.80	34.30	-24.25	2.00	Hold Tangent
6629.07	10.00	52.00	6563.80	468.23	599.30	-423.67	0.00	Drop to Vertical
7129.07	0.00	52.00	7061.27	495.02	633.60	-447.91	2.00	Hold Vertical
10604.84	0.00	179.50	10537.04	495.02	633.60	-447.91	0.00	KOP
11504.84	90.00	179.50	11110.00	-77.91	638.60	123.88	10.00	Landing Point
21430.85	90.00	179.50	11110.00	-10003.55	725.22	10029.80	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	930.00	930.00
Salt	1400.00	1400.00
Base of Salt	5112.22	5070.00
Delaware	5396.54	5350.00
Cherry Canyon	6452.58	6390.00
Brushy Canyon	8067.80	8000.00
1st Bone Spring Lime	9397.80	9330.00
Bone Spring 1st	10587.80	10520.00
Bone Spring 2nd / Point of Penetrati	11263.70	11060.00
exit	21350.85	11110.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.0636	-103.4215	538' FNL, 1959' FEL of Sec 12 in T26S, R34E
KOP	10604.84	10537.04	32.0649	-103.4195	46' FNL, 1321' FEL of Sec 12 in T26S, R34E
Point of Penetration	11263.70	11060.00	32.0649	-103.4194	100' FNL, 1320' FEL of Sec 12 in T26S, R34E
Exit	21350.85	11110.01	32.0364	-103.4194	100' FSL, 1320' FEL of Sec 13 in T26S, R34E
BHL	21430.85	11110.00	32.0361	-103.4195	20' FSL, 1320' FEL of Sec 13 in T26S, R34E

	Y	X	MD
KOP	388588	824453.6	10604.84



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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	52.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	52.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	52.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	52.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	52.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	52.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	52.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	52.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	52.00	900.00	0.00	0.00	0.00	0.00	
930.00	0.00	52.00	930.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	52.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	52.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	52.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	52.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	52.00	1400.00	0.00	0.00	0.00	0.00	Salt,
1500.00	0.00	52.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	52.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	52.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	52.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	52.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	52.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	52.00	2099.98	1.07	1.38	-0.97	2.00	
2200.00	4.00	52.00	2199.84	4.30	5.50	-3.89	2.00	
2300.00	6.00	52.00	2299.45	9.66	12.37	-8.74	2.00	
2400.00	8.00	52.00	2398.70	17.16	21.97	-15.53	2.00	
2500.00	10.00	52.00	2497.47	26.80	34.30	-24.25	2.00	Hold Tangent
2600.00	10.00	52.00	2595.95	37.49	47.98	-33.92	0.00	
2700.00	10.00	52.00	2694.43	48.18	61.66	-43.59	0.00	
2800.00	10.00	52.00	2792.91	58.87	75.35	-53.27	0.00	
2900.00	10.00	52.00	2891.39	69.56	89.03	-62.94	0.00	
3000.00	10.00	52.00	2989.87	80.25	102.71	-72.61	0.00	
3100.00	10.00	52.00	3088.35	90.94	116.40	-82.29	0.00	
3200.00	10.00	52.00	3186.83	101.63	130.08	-91.96	0.00	
3300.00	10.00	52.00	3285.31	112.32	143.77	-101.63	0.00	
3400.00	10.00	52.00	3383.79	123.01	157.45	-111.31	0.00	
3500.00	10.00	52.00	3482.27	133.70	171.13	-120.98	0.00	
3600.00	10.00	52.00	3580.75	144.39	184.82	-130.65	0.00	
3700.00	10.00	52.00	3679.23	155.09	198.50	-140.33	0.00	
3800.00	10.00	52.00	3777.72	165.78	212.18	-150.00	0.00	
3900.00	10.00	52.00	3876.20	176.47	225.87	-159.67	0.00	
4000.00	10.00	52.00	3974.68	187.16	239.55	-169.35	0.00	
4100.00	10.00	52.00	4073.16	197.85	253.23	-179.02	0.00	
4200.00	10.00	52.00	4171.64	208.54	266.92	-188.69	0.00	
4300.00	10.00	52.00	4270.12	219.23	280.60	-198.37	0.00	
4400.00	10.00	52.00	4368.60	229.92	294.29	-208.04	0.00	
4500.00	10.00	52.00	4467.08	240.61	307.97	-217.71	0.00	
4600.00	10.00	52.00	4565.56	251.30	321.65	-227.39	0.00	
4700.00	10.00	52.00	4664.04	261.99	335.34	-237.06	0.00	
4800.00	10.00	52.00	4762.52	272.68	349.02	-246.73	0.00	
4900.00	10.00	52.00	4861.00	283.38	362.70	-256.41	0.00	
5000.00	10.00	52.00	4959.48	294.07	376.39	-266.08	0.00	
5100.00	10.00	52.00	5057.97	304.76	390.07	-275.75	0.00	
5112.22	10.00	52.00	5070.00	306.06	391.74	-276.94	0.00	Base of Salt
5200.00	10.00	52.00	5156.45	315.45	403.75	-285.43	0.00	
5300.00	10.00	52.00	5254.93	326.14	417.44	-295.10	0.00	
5396.54	10.00	52.00	5350.00	336.46	430.65	-304.44	0.00	Delaware
5400.00	10.00	52.00	5353.41	336.83	431.12	-304.77	0.00	
5500.00	10.00	52.00	5451.89	347.52	444.81	-314.45	0.00	
5600.00	10.00	52.00	5550.37	358.21	458.49	-324.12	0.00	
5700.00	10.00	52.00	5648.85	368.90	472.17	-333.79	0.00	
5800.00	10.00	52.00	5747.33	379.59	485.86	-343.47	0.00	
5900.00	10.00	52.00	5845.81	390.28	499.54	-353.14	0.00	
6000.00	10.00	52.00	5944.29	400.97	513.22	-362.82	0.00	
6100.00	10.00	52.00	6042.77	411.67	526.91	-372.49	0.00	
6200.00	10.00	52.00	6141.25	422.36	540.59	-382.16	0.00	
6300.00	10.00	52.00	6239.73	433.05	554.27	-391.84	0.00	
6400.00	10.00	52.00	6338.22	443.74	567.96	-401.51	0.00	
6452.58	10.00	52.00	6390.00	449.36	575.15	-406.60	0.00	Cherry Canyon
6500.00	10.00	52.00	6436.70	454.43	581.64	-411.18	0.00	



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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6600.00	10.00	52.00	6535.18	465.12	595.33	-420.86	0.00	
6629.07	10.00	52.00	6563.80	468.23	599.30	-423.67	0.00	Drop to Vertical
6700.00	8.58	52.00	6633.80	475.28	608.33	-430.05	2.00	
6800.00	6.58	52.00	6732.92	483.40	618.72	-437.40	2.00	
6900.00	4.58	52.00	6832.44	489.39	626.39	-442.81	2.00	
7000.00	2.58	52.00	6932.24	493.23	631.31	-446.29	2.00	
7100.00	0.58	52.00	7032.20	494.93	633.48	-447.83	2.00	
7129.07	0.00	52.00	7061.27	495.02	633.60	-447.91	2.00	Hold Vertical
7200.00	0.00	179.50	7132.20	495.02	633.60	-447.91	0.00	
7300.00	0.00	179.50	7232.20	495.02	633.60	-447.91	0.00	
7400.00	0.00	179.50	7332.20	495.02	633.60	-447.91	0.00	
7500.00	0.00	179.50	7432.20	495.02	633.60	-447.91	0.00	
7600.00	0.00	179.50	7532.20	495.02	633.60	-447.91	0.00	
7700.00	0.00	179.50	7632.20	495.02	633.60	-447.91	0.00	
7800.00	0.00	179.50	7732.20	495.02	633.60	-447.91	0.00	
7900.00	0.00	179.50	7832.20	495.02	633.60	-447.91	0.00	
8000.00	0.00	179.50	7932.20	495.02	633.60	-447.91	0.00	
8067.80	0.00	179.50	8000.00	495.02	633.60	-447.91	0.00	Brushy Canyon
8100.00	0.00	179.50	8032.20	495.02	633.60	-447.91	0.00	
8200.00	0.00	179.50	8132.20	495.02	633.60	-447.91	0.00	
8300.00	0.00	179.50	8232.20	495.02	633.60	-447.91	0.00	
8400.00	0.00	179.50	8332.20	495.02	633.60	-447.91	0.00	
8500.00	0.00	179.50	8432.20	495.02	633.60	-447.91	0.00	
8600.00	0.00	179.50	8532.20	495.02	633.60	-447.91	0.00	
8700.00	0.00	179.50	8632.20	495.02	633.60	-447.91	0.00	
8800.00	0.00	179.50	8732.20	495.02	633.60	-447.91	0.00	
8900.00	0.00	179.50	8832.20	495.02	633.60	-447.91	0.00	
9000.00	0.00	179.50	8932.20	495.02	633.60	-447.91	0.00	
9100.00	0.00	179.50	9032.20	495.02	633.60	-447.91	0.00	
9200.00	0.00	179.50	9132.20	495.02	633.60	-447.91	0.00	
9300.00	0.00	179.50	9232.20	495.02	633.60	-447.91	0.00	
9397.80	0.00	179.50	9330.00	495.02	633.60	-447.91	0.00	1st Bone Spring Lime
9400.00	0.00	179.50	9332.20	495.02	633.60	-447.91	0.00	
9500.00	0.00	179.50	9432.20	495.02	633.60	-447.91	0.00	
9600.00	0.00	179.50	9532.20	495.02	633.60	-447.91	0.00	
9700.00	0.00	179.50	9632.20	495.02	633.60	-447.91	0.00	
9800.00	0.00	179.50	9732.20	495.02	633.60	-447.91	0.00	
9900.00	0.00	179.50	9832.20	495.02	633.60	-447.91	0.00	
10000.00	0.00	179.50	9932.20	495.02	633.60	-447.91	0.00	
10100.00	0.00	179.50	10032.20	495.02	633.60	-447.91	0.00	
10200.00	0.00	179.50	10132.20	495.02	633.60	-447.91	0.00	
10300.00	0.00	179.50	10232.20	495.02	633.60	-447.91	0.00	
10400.00	0.00	179.50	10332.20	495.02	633.60	-447.91	0.00	
10500.00	0.00	179.50	10432.20	495.02	633.60	-447.91	0.00	
10587.80	0.00	179.50	10520.00	495.02	633.60	-447.91	0.00	Bone Spring 1st
10600.00	0.00	179.50	10532.20	495.02	633.60	-447.91	0.00	
10604.84	0.00	179.50	10537.04	495.02	633.60	-447.91	0.00	KOP
10700.00	9.52	179.50	10631.76	487.14	633.67	-440.04	10.00	
10800.00	19.52	179.50	10728.45	462.11	633.89	-415.06	10.00	
10900.00	29.52	179.50	10819.32	420.67	634.25	-373.70	10.00	
11000.00	39.52	179.50	10901.61	364.08	634.74	-317.23	10.00	
11100.00	49.52	179.50	10972.83	294.06	635.35	-247.35	10.00	
11200.00	59.52	179.50	11030.80	212.74	636.06	-166.19	10.00	
11263.70	65.89	179.50	11060.00	156.16	636.56	-109.72	10.00	Bone Spring 2nd / Point of Penetration
11300.00	69.52	179.50	11073.77	122.58	636.85	-76.21	10.00	
11400.00	79.52	179.50	11100.43	26.34	637.69	19.84	10.00	
11500.00	89.52	179.50	11109.98	-73.07	638.56	119.05	10.00	
11504.84	90.00	179.50	11110.00	-77.91	638.60	123.88	10.00	Landing Point
11600.00	90.00	179.50	11110.00	-173.07	639.43	218.85	0.00	
11700.00	90.00	179.50	11110.00	-273.07	640.30	318.65	0.00	
11800.00	90.00	179.50	11110.00	-373.06	641.18	418.45	0.00	
11900.00	90.00	179.50	11110.00	-473.06	642.05	518.24	0.00	
12000.00	90.00	179.50	11110.00	-573.05	642.92	618.04	0.00	
12100.00	90.00	179.50	11110.00	-673.05	643.80	717.84	0.00	
12200.00	90.00	179.50	11110.00	-773.05	644.67	817.64	0.00	
12300.00	90.00	179.50	11110.00	-873.04	645.54	917.44	0.00	
12400.00	90.00	179.50	11110.00	-973.04	646.41	1017.23	0.00	
12500.00	90.00	179.50	11110.00	-1073.04	647.29	1117.03	0.00	
12600.00	90.00	179.50	11110.00	-1173.03	648.16	1216.83	0.00	
12700.00	90.00	179.50	11110.00	-1273.03	649.03	1316.63	0.00	



Well: Ragin Cajun 12-13 Fed Com 17H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	90.00	179.50	11110.00	-1373.02	649.91	1416.42	0.00	
12900.00	90.00	179.50	11110.00	-1473.02	650.78	1516.22	0.00	
13000.00	90.00	179.50	11110.00	-1573.02	651.65	1616.02	0.00	
13100.00	90.00	179.50	11110.00	-1673.01	652.52	1715.82	0.00	
13200.00	90.00	179.50	11110.00	-1773.01	653.40	1815.61	0.00	
13300.00	90.00	179.50	11110.00	-1873.00	654.27	1915.41	0.00	
13400.00	90.00	179.50	11110.00	-1973.00	655.14	2015.21	0.00	
13500.00	90.00	179.50	11110.00	-2073.00	656.02	2115.01	0.00	
13600.00	90.00	179.50	11110.00	-2172.99	656.89	2214.80	0.00	
13700.00	90.00	179.50	11110.00	-2272.99	657.76	2314.60	0.00	
13800.00	90.00	179.50	11110.00	-2372.99	658.64	2414.40	0.00	
13900.00	90.00	179.50	11110.00	-2472.98	659.51	2514.20	0.00	
14000.00	90.00	179.50	11110.00	-2572.98	660.38	2613.99	0.00	
14100.00	90.00	179.50	11110.00	-2672.97	661.25	2713.79	0.00	
14200.00	90.00	179.50	11110.00	-2772.97	662.13	2813.59	0.00	
14300.00	90.00	179.50	11110.00	-2872.97	663.00	2913.39	0.00	
14400.00	90.00	179.50	11110.00	-2972.96	663.87	3013.18	0.00	
14500.00	90.00	179.50	11110.00	-3072.96	664.75	3112.98	0.00	
14600.00	90.00	179.50	11110.00	-3172.96	665.62	3212.78	0.00	
14700.00	90.00	179.50	11110.00	-3272.95	666.49	3312.58	0.00	
14800.00	90.00	179.50	11110.00	-3372.95	667.36	3412.37	0.00	
14900.00	90.00	179.50	11110.00	-3472.94	668.24	3512.17	0.00	
15000.00	90.00	179.50	11110.00	-3572.94	669.11	3611.97	0.00	
15100.00	90.00	179.50	11110.00	-3672.94	669.98	3711.77	0.00	
15200.00	90.00	179.50	11110.00	-3772.93	670.86	3811.56	0.00	
15300.00	90.00	179.50	11110.00	-3872.93	671.73	3911.36	0.00	
15400.00	90.00	179.50	11110.00	-3972.92	672.60	4011.16	0.00	
15500.00	90.00	179.50	11110.00	-4072.92	673.47	4110.96	0.00	
15600.00	90.00	179.50	11110.00	-4172.92	674.35	4210.75	0.00	
15700.00	90.00	179.50	11110.00	-4272.91	675.22	4310.55	0.00	
15800.00	90.00	179.50	11110.00	-4372.91	676.09	4410.35	0.00	
15900.00	90.00	179.50	11110.01	-4472.91	676.97	4510.15	0.00	
16000.00	90.00	179.50	11110.01	-4572.90	677.84	4609.94	0.00	
16100.00	90.00	179.50	11110.01	-4672.90	678.71	4709.74	0.00	
16200.00	90.00	179.50	11110.01	-4772.89	679.59	4809.54	0.00	
16300.00	90.00	179.50	11110.01	-4872.89	680.46	4909.34	0.00	
16400.00	90.00	179.50	11110.01	-4972.89	681.33	5009.13	0.00	
16500.00	90.00	179.50	11110.01	-5072.88	682.20	5108.93	0.00	
16600.00	90.00	179.50	11110.01	-5172.88	683.08	5208.73	0.00	
16700.00	90.00	179.50	11110.01	-5272.88	683.95	5308.53	0.00	
16800.00	90.00	179.50	11110.01	-5372.87	684.82	5408.33	0.00	
16900.00	90.00	179.50	11110.01	-5472.87	685.70	5508.12	0.00	
17000.00	90.00	179.50	11110.01	-5572.86	686.57	5607.92	0.00	
17100.00	90.00	179.50	11110.01	-5672.86	687.44	5707.72	0.00	
17200.00	90.00	179.50	11110.01	-5772.86	688.31	5807.52	0.00	
17300.00	90.00	179.50	11110.01	-5872.85	689.19	5907.31	0.00	
17400.00	90.00	179.50	11110.01	-5972.85	690.06	6007.11	0.00	
17500.00	90.00	179.50	11110.01	-6072.84	690.93	6106.91	0.00	
17600.00	90.00	179.50	11110.01	-6172.84	691.81	6206.71	0.00	
17700.00	90.00	179.50	11110.01	-6272.84	692.68	6306.50	0.00	
17800.00	90.00	179.50	11110.01	-6372.83	693.55	6406.30	0.00	
17900.00	90.00	179.50	11110.01	-6472.83	694.42	6506.10	0.00	
18000.00	90.00	179.50	11110.01	-6572.83	695.30	6605.90	0.00	
18100.00	90.00	179.50	11110.01	-6672.82	696.17	6705.69	0.00	
18200.00	90.00	179.50	11110.01	-6772.82	697.04	6805.49	0.00	
18300.00	90.00	179.50	11110.01	-6872.81	697.92	6905.29	0.00	
18400.00	90.00	179.50	11110.01	-6972.81	698.79	7005.09	0.00	
18500.00	90.00	179.50	11110.01	-7072.81	699.66	7104.88	0.00	
18600.00	90.00	179.50	11110.01	-7172.80	700.54	7204.68	0.00	
18700.00	90.00	179.50	11110.01	-7272.80	701.41	7304.48	0.00	
18800.00	90.00	179.50	11110.01	-7372.80	702.28	7404.28	0.00	
18900.00	90.00	179.50	11110.01	-7472.79	703.15	7504.07	0.00	
19000.00	90.00	179.50	11110.01	-7572.79	704.03	7603.87	0.00	
19100.00	90.00	179.50	11110.01	-7672.78	704.90	7703.67	0.00	
19200.00	90.00	179.50	11110.01	-7772.78	705.77	7803.47	0.00	
19300.00	90.00	179.50	11110.01	-7872.78	706.65	7903.26	0.00	
19400.00	90.00	179.50	11110.01	-7972.77	707.52	8003.06	0.00	
19500.00	90.00	179.50	11110.01	-8072.77	708.39	8102.86	0.00	
19600.00	90.00	179.50	11110.01	-8172.76	709.26	8202.66	0.00	
19700.00	90.00	179.50	11110.01	-8272.76	710.14	8302.45	0.00	



Well: Ragin Cajun 12-13 Fed Com 17H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19800.00	90.00	179.50	11110.01	-8372.76	711.01	8402.25	0.00	
19900.00	90.00	179.50	11110.01	-8472.75	711.88	8502.05	0.00	
20000.00	90.00	179.50	11110.01	-8572.75	712.76	8601.85	0.00	
20100.00	90.00	179.50	11110.01	-8672.75	713.63	8701.64	0.00	
20200.00	90.00	179.50	11110.01	-8772.74	714.50	8801.44	0.00	
20300.00	90.00	179.50	11110.01	-8872.74	715.37	8901.24	0.00	
20400.00	90.00	179.50	11110.01	-8972.73	716.25	9001.04	0.00	
20500.00	90.00	179.50	11110.01	-9072.73	717.12	9100.83	0.00	
20600.00	90.00	179.50	11110.01	-9172.73	717.99	9200.63	0.00	
20700.00	90.00	179.50	11110.01	-9272.72	718.87	9300.43	0.00	
20800.00	90.00	179.50	11110.01	-9372.72	719.74	9400.23	0.00	
20900.00	90.00	179.50	11110.01	-9472.72	720.61	9500.02	0.00	
21000.00	90.00	179.50	11110.01	-9572.71	721.49	9599.82	0.00	
21100.00	90.00	179.50	11110.01	-9672.71	722.36	9699.62	0.00	
21200.00	90.00	179.50	11110.01	-9772.70	723.23	9799.42	0.00	
21300.00	90.00	179.50	11110.01	-9872.70	724.10	9899.22	0.00	
21350.85	90.00	179.50	11110.01	-9923.55	724.55	9949.97	0.00	exit
21400.00	90.00	179.50	11110.01	-9972.70	724.98	9999.01	0.00	
21430.85	90.00	179.50	11110.00	-10003.55	725.22	10029.80	0.00	BHL

Intent As Drilled

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: RAGIN CAJUN 12-13 FED COM	Well Number 17H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	12	26S	34E		46	FNL	1321	FEL	LEA
Latitude					Longitude				NAD
32.0649					-103.4195				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	12	26-S	34-E		100	NORTH	1320	EAST	LEA
Latitude					Longitude				NAD
32.064866					103.419388				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	13	26-S	34-E		100	SOUTH	1320	EAST	LEA
Latitude					Longitude				NAD
32.036374					103.419383				83

Is this well the defining well for the Horizontal Spacing Unit? Y

Is this well an infill well? N

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Ragin Cajun 12-13 Fed Com 17H

1. Geologic Formations

TVD of target	11110	Pilot hole depth	N/A
MD at TD:	21431	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	930		
Salt	1400		
Base of Salt	5070		
Delaware	5350		
Cherry Canyon	6390		
Brushy Canyon	8000		
1st Bone Spring Lime	9330		
Bone Spring 1st	10520		
Bone Spring 2nd	11060		

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

Ragin Cajun 12-13 Fed Com 17H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	955	0	955
9 7/8	8 5/8	32	P110	Sprint FJ	0	10504	0	10504
7 7/8	5 1/2	17	P110	DWC/C-IS+	0	21431	0	11110

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

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft ³ /sack)	Slurry Description
Surface	577	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	390	Surf	9	3.27	Lead: Class C Cement + additives
	295	8000	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	507	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	390	Surf	9	3.27	Lead: Class C Cement + additives
	295	8000	13.2	1.44	Tail: Class H / C + additives
Production	117	8605	9	3.27	Lead: Class H / C + additives
	1433	10605	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
Other*					
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
Other*					
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
Other*					
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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
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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 Rpeort and sbumitted 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	Specfy what type and where?
BH pressure at deepest TVD	6066
Abnormal temperature	No

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

Hydrogren 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	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

- Directional Plan
- Other, describe

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: RAGIN CAJUN 12-13 FED COM	Well Location: T26S / R34E / SEC 12 / NWNE /	County or Parish/State:
Well Number: 17H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM100567	Unit or CA Name:	Unit or CA Number:
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2758511

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/27/2023

Time Sundry Submitted: 02:47

Date proposed operation will begin: 10/27/2023

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD, API 30-025-51554: BHL change from 20 FSL & 2200 FEL to 20 FSL & 1320 FEL, both 13-26S-34E. TVD/MD change from 11,110'/21,397' to 11,110'/21,431' Casing program change: Surface, Intermediate, & Production casing changes. Cement volume changes to accommodate casing change. Defining well designation change to Ragin Cajun 12-13 Fed Com 17H Please see attached revised C-102, and drilling & directional plans.

NOI Attachments

Procedure Description

Ragin_Cajun_12_13_Fed_Com_17H_Directional_Plan_10_27_23_20231027144537.pdf

RAGIN_CAJUN_12_13_FED_COM_17H_C_102_BHL_NOI_20231027144538.pdf

Ragin_Cajun_12_13_Fed_Com_17H_Drl_Plan_20231027144537.pdf

Well Name: RAGIN CAJUN 12-13 FED
COM

Well Location: T26S / R34E / SEC 12 /
NWNE /

County or Parish/State:

Well Number: 17H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM100567

Unit or CA Name:

Unit or CA Number:

US Well Number:

Well Status: Approved Application for
Permit to Drill

Operator: DEVON ENERGY
PRODUCTION COMPANY LP

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: REBECCA DEAL

Signed on: NOV 06, 2023 09:01 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Analyst

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (303) 299-1406

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM100567
LOCATION:	Section 12, T.26 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Ragin Cajun 12-13 Fed Com 17H
SURFACE HOLE FOOTAGE:	538'/N & 1959'/E
BOTTOM HOLE FOOTAGE:	20'/S & 1320'/E
ATS/API ID:	3002551554
APD ID:	10400090744
Sundry ID:	2758511

COA

H2S	Yes <input type="checkbox"/>		
Potash	None <input type="checkbox"/>		
Cave/Karst Potential	Low <input type="checkbox"/>		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	Conventional and Multibowl <input type="checkbox"/>		
Other	<input type="checkbox"/> 4 String	Capitan Reef <input type="checkbox"/> None <input type="checkbox"/>	<input type="checkbox"/> WIPP
Other	Pilot Hole <input type="checkbox"/> None <input type="checkbox"/>	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze <input type="checkbox"/> None <input type="checkbox"/>	Echo-Meter <input type="checkbox"/> Int 1 <input type="checkbox"/>	Primary Cement Squeeze <input type="checkbox"/> None <input type="checkbox"/>
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Morrow** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1100 feet** (a minimum of **25 feet (Lea County)**) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4** inch in diameter.
 - 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 will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

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

Option 1 (Single Stage):

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

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 8000'** (685 sxs Class H/C+ additives).
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 807 sxs Class C)

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 8-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

Production casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Annular which shall be tested to 3500 (70% Working Pressure) psi.**

- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP**)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (**575-689-5981 Lea County**) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a

digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: 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 for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. 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.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR**

part 3170 Subpart 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

LVO 11/6/2023

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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. **NMNM100567**
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **DEVON ENERGY PRODUCTION COMPANY LP**

3a. Address **333 WEST SHERIDAN AVE, OKLAHOMA CITY,** 3b. Phone No. (include area code)
(405) 235-3611

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 12/T26S/R34E/NMP

7. If Unit of CA/Agreement, Name and/or No.
 8. Well Name and No. **RAGIN CAJUN 12-13 FED COM/17H**
 9. API Well No.
 10. Field and Pool or Exploratory Area
WC-025 G-08 S263412K/BONE SPRING
 11. Country or Parish, State
LEA/NM

12. CHECK THE 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"/> Hydraulic Fracturing	<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 type="checkbox"/> Other	
	<input checked="" 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD, API 30-025-51554:

- BHL change from 20 FSL & 2200 FEL to 20 FSL & 1320 FEL, both 13-26S-34E.
- TVD/MD change from 11,110/21,397 to 11,110/21,431
- Casing program change: Surface, Intermediate, & Production casing changes. Cement volume changes to accommodate casing change.
- Defining well designation change to Ragin Cajun 12-13 Fed Com 17H
- Please see attached revised C-102, and drilling & directional plans.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
REBECCA DEAL / Ph: (303) 299-1406

Regulatory Analyst
 Title

(Electronic Submission)
 Signature

Date

THE 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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWNE / 538 FNL / 1959 FEL / TWSP: 26S / RANGE: 34E / SECTION: 12 / LAT: 32.063667 / LONG: -103.42145 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2200 FEL / TWSP: 26S / RANGE: 34E / SECTION: 12 / LAT: 32.064873 / LONG: -103.422229 (TVD: 11060 feet, MD: 11241 feet)

PPP: NENW / 166 FNL / 2200 FEL / TWSP: 26S / RANGE: 34E / SECTION: 13 / LAT: 32.0501733 / LONG: -103.4222253 (TVD: 11110 feet, MD: 16300 feet)

BHL: SWSE / 20 FSL / 2200 FEL / TWSP: 26S / RANGE: 34E / SECTION: 13 / LAT: 32.036163 / LONG: -103.422223 (TVD: 11110 feet, MD: 21397 feet)

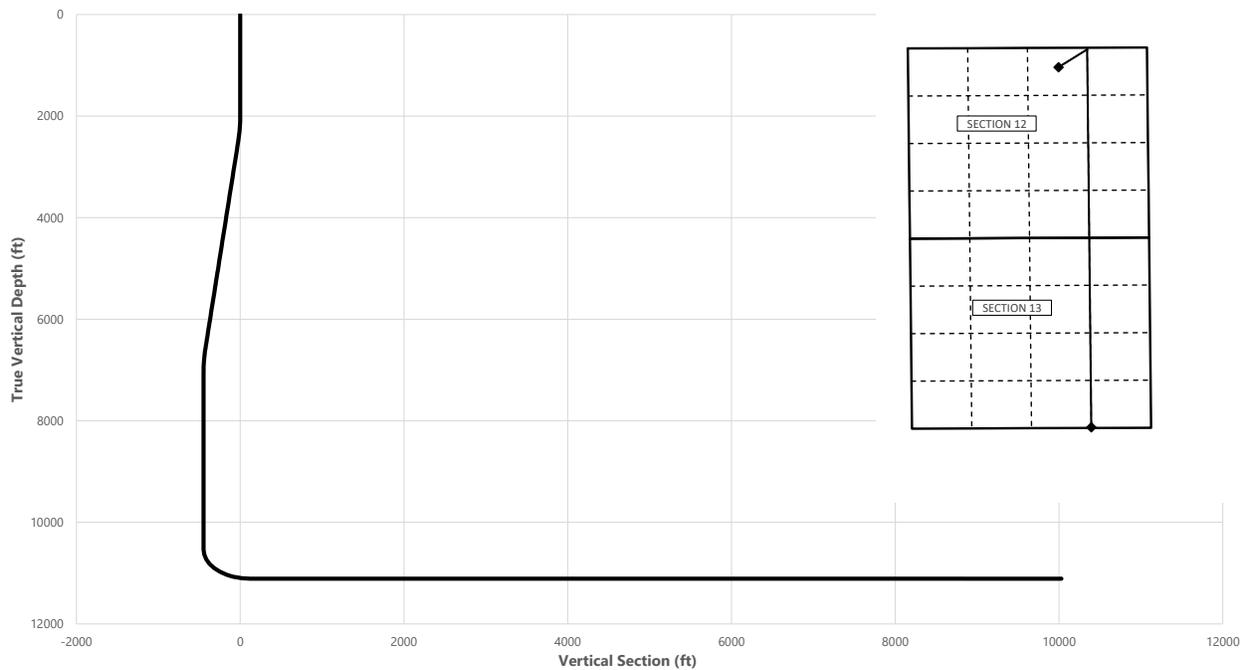
CONFIDENTIAL



Well: Ragin Cajun 12-13 Fed Com 17H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	52.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	52.00	2497.47	26.80	34.30	-24.25	2.00	Hold Tangent
6629.07	10.00	52.00	6563.80	468.23	599.30	-423.67	0.00	Drop to Vertical
7129.07	0.00	52.00	7061.27	495.02	633.60	-447.91	2.00	Hold Vertical
10604.84	0.00	179.50	10537.04	495.02	633.60	-447.91	0.00	KOP
11504.84	90.00	179.50	11110.00	-77.91	638.60	123.88	10.00	Landing Point
21430.85	90.00	179.50	11110.00	-10003.55	725.22	10029.80	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	930.00	930.00
Salt	1400.00	1400.00
Base of Salt	5112.22	5070.00
Delaware	5396.54	5350.00
Cherry Canyon	6452.58	6390.00
Brushy Canyon	8067.80	8000.00
1st Bone Spring Lime	9397.80	9330.00
Bone Spring 1st	10587.80	10520.00
Bone Spring 2nd / Point of Penetrati	11263.70	11060.00
exit	21350.85	11110.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.0636	-103.4215	538' FNL, 1959' FEL of Sec 12 in T26S, R34E
KOP	10604.84	10537.04	32.0649	-103.4195	46' FNL, 1321' FEL of Sec 12 in T26S, R34E
Point of Penetration	11263.70	11060.00	32.0649	-103.4194	100' FNL, 1320' FEL of Sec 12 in T26S, R34E
Exit	21350.85	11110.01	32.0364	-103.4194	100' FSL, 1320' FEL of Sec 13 in T26S, R34E
BHL	21430.85	11110.00	32.0361	-103.4195	20' FSL, 1320' FEL of Sec 13 in T26S, R34E

	Y	X	MD
KOP	388588	824453.6	10604.84



Well: Ragin Cajun 12-13 Fed Com 17H
 County: Lea
 Wellbore: Permit Plan
 Design: Permit Plan #1

Geodetic System: US State Plane 1983
 Datum: North American Datum 1927
 Ellipsoid: Clarke 1866
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	52.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	52.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	52.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	52.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	52.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	52.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	52.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	52.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	52.00	900.00	0.00	0.00	0.00	0.00	
930.00	0.00	52.00	930.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	52.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	52.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	52.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	52.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	52.00	1400.00	0.00	0.00	0.00	0.00	Salt,
1500.00	0.00	52.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	52.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	52.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	52.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	52.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	52.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	52.00	2099.98	1.07	1.38	-0.97	2.00	
2200.00	4.00	52.00	2199.84	4.30	5.50	-3.89	2.00	
2300.00	6.00	52.00	2299.45	9.66	12.37	-8.74	2.00	
2400.00	8.00	52.00	2398.70	17.16	21.97	-15.53	2.00	
2500.00	10.00	52.00	2497.47	26.80	34.30	-24.25	2.00	Hold Tangent
2600.00	10.00	52.00	2595.95	37.49	47.98	-33.92	0.00	
2700.00	10.00	52.00	2694.43	48.18	61.66	-43.59	0.00	
2800.00	10.00	52.00	2792.91	58.87	75.35	-53.27	0.00	
2900.00	10.00	52.00	2891.39	69.56	89.03	-62.94	0.00	
3000.00	10.00	52.00	2989.87	80.25	102.71	-72.61	0.00	
3100.00	10.00	52.00	3088.35	90.94	116.40	-82.29	0.00	
3200.00	10.00	52.00	3186.83	101.63	130.08	-91.96	0.00	
3300.00	10.00	52.00	3285.31	112.32	143.77	-101.63	0.00	
3400.00	10.00	52.00	3383.79	123.01	157.45	-111.31	0.00	
3500.00	10.00	52.00	3482.27	133.70	171.13	-120.98	0.00	
3600.00	10.00	52.00	3580.75	144.39	184.82	-130.65	0.00	
3700.00	10.00	52.00	3679.23	155.09	198.50	-140.33	0.00	
3800.00	10.00	52.00	3777.72	165.78	212.18	-150.00	0.00	
3900.00	10.00	52.00	3876.20	176.47	225.87	-159.67	0.00	
4000.00	10.00	52.00	3974.68	187.16	239.55	-169.35	0.00	
4100.00	10.00	52.00	4073.16	197.85	253.23	-179.02	0.00	
4200.00	10.00	52.00	4171.64	208.54	266.92	-188.69	0.00	
4300.00	10.00	52.00	4270.12	219.23	280.60	-198.37	0.00	
4400.00	10.00	52.00	4368.60	229.92	294.29	-208.04	0.00	
4500.00	10.00	52.00	4467.08	240.61	307.97	-217.71	0.00	
4600.00	10.00	52.00	4565.56	251.30	321.65	-227.39	0.00	
4700.00	10.00	52.00	4664.04	261.99	335.34	-237.06	0.00	
4800.00	10.00	52.00	4762.52	272.68	349.02	-246.73	0.00	
4900.00	10.00	52.00	4861.00	283.38	362.70	-256.41	0.00	
5000.00	10.00	52.00	4959.48	294.07	376.39	-266.08	0.00	
5100.00	10.00	52.00	5057.97	304.76	390.07	-275.75	0.00	
5112.22	10.00	52.00	5070.00	306.06	391.74	-276.94	0.00	Base of Salt
5200.00	10.00	52.00	5156.45	315.45	403.75	-285.43	0.00	
5300.00	10.00	52.00	5254.93	326.14	417.44	-295.10	0.00	
5396.54	10.00	52.00	5350.00	336.46	430.65	-304.44	0.00	Delaware
5400.00	10.00	52.00	5353.41	336.83	431.12	-304.77	0.00	
5500.00	10.00	52.00	5451.89	347.52	444.81	-314.45	0.00	
5600.00	10.00	52.00	5550.37	358.21	458.49	-324.12	0.00	
5700.00	10.00	52.00	5648.85	368.90	472.17	-333.79	0.00	
5800.00	10.00	52.00	5747.33	379.59	485.86	-343.47	0.00	
5900.00	10.00	52.00	5845.81	390.28	499.54	-353.14	0.00	
6000.00	10.00	52.00	5944.29	400.97	513.22	-362.82	0.00	
6100.00	10.00	52.00	6042.77	411.67	526.91	-372.49	0.00	
6200.00	10.00	52.00	6141.25	422.36	540.59	-382.16	0.00	
6300.00	10.00	52.00	6239.73	433.05	554.27	-391.84	0.00	
6400.00	10.00	52.00	6338.22	443.74	567.96	-401.51	0.00	
6452.58	10.00	52.00	6390.00	449.36	575.15	-406.60	0.00	Cherry Canyon
6500.00	10.00	52.00	6436.70	454.43	581.64	-411.18	0.00	



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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6600.00	10.00	52.00	6535.18	465.12	595.33	-420.86	0.00	
6629.07	10.00	52.00	6563.80	468.23	599.30	-423.67	0.00	Drop to Vertical
6700.00	8.58	52.00	6633.80	475.28	608.33	-430.05	2.00	
6800.00	6.58	52.00	6732.92	483.40	618.72	-437.40	2.00	
6900.00	4.58	52.00	6832.44	489.39	626.39	-442.81	2.00	
7000.00	2.58	52.00	6932.24	493.23	631.31	-446.29	2.00	
7100.00	0.58	52.00	7032.20	494.93	633.48	-447.83	2.00	
7129.07	0.00	52.00	7061.27	495.02	633.60	-447.91	2.00	Hold Vertical
7200.00	0.00	179.50	7132.20	495.02	633.60	-447.91	0.00	
7300.00	0.00	179.50	7232.20	495.02	633.60	-447.91	0.00	
7400.00	0.00	179.50	7332.20	495.02	633.60	-447.91	0.00	
7500.00	0.00	179.50	7432.20	495.02	633.60	-447.91	0.00	
7600.00	0.00	179.50	7532.20	495.02	633.60	-447.91	0.00	
7700.00	0.00	179.50	7632.20	495.02	633.60	-447.91	0.00	
7800.00	0.00	179.50	7732.20	495.02	633.60	-447.91	0.00	
7900.00	0.00	179.50	7832.20	495.02	633.60	-447.91	0.00	
8000.00	0.00	179.50	7932.20	495.02	633.60	-447.91	0.00	
8067.80	0.00	179.50	8000.00	495.02	633.60	-447.91	0.00	Brushy Canyon
8100.00	0.00	179.50	8032.20	495.02	633.60	-447.91	0.00	
8200.00	0.00	179.50	8132.20	495.02	633.60	-447.91	0.00	
8300.00	0.00	179.50	8232.20	495.02	633.60	-447.91	0.00	
8400.00	0.00	179.50	8332.20	495.02	633.60	-447.91	0.00	
8500.00	0.00	179.50	8432.20	495.02	633.60	-447.91	0.00	
8600.00	0.00	179.50	8532.20	495.02	633.60	-447.91	0.00	
8700.00	0.00	179.50	8632.20	495.02	633.60	-447.91	0.00	
8800.00	0.00	179.50	8732.20	495.02	633.60	-447.91	0.00	
8900.00	0.00	179.50	8832.20	495.02	633.60	-447.91	0.00	
9000.00	0.00	179.50	8932.20	495.02	633.60	-447.91	0.00	
9100.00	0.00	179.50	9032.20	495.02	633.60	-447.91	0.00	
9200.00	0.00	179.50	9132.20	495.02	633.60	-447.91	0.00	
9300.00	0.00	179.50	9232.20	495.02	633.60	-447.91	0.00	
9397.80	0.00	179.50	9330.00	495.02	633.60	-447.91	0.00	1st Bone Spring Lime
9400.00	0.00	179.50	9332.20	495.02	633.60	-447.91	0.00	
9500.00	0.00	179.50	9432.20	495.02	633.60	-447.91	0.00	
9600.00	0.00	179.50	9532.20	495.02	633.60	-447.91	0.00	
9700.00	0.00	179.50	9632.20	495.02	633.60	-447.91	0.00	
9800.00	0.00	179.50	9732.20	495.02	633.60	-447.91	0.00	
9900.00	0.00	179.50	9832.20	495.02	633.60	-447.91	0.00	
10000.00	0.00	179.50	9932.20	495.02	633.60	-447.91	0.00	
10100.00	0.00	179.50	10032.20	495.02	633.60	-447.91	0.00	
10200.00	0.00	179.50	10132.20	495.02	633.60	-447.91	0.00	
10300.00	0.00	179.50	10232.20	495.02	633.60	-447.91	0.00	
10400.00	0.00	179.50	10332.20	495.02	633.60	-447.91	0.00	
10500.00	0.00	179.50	10432.20	495.02	633.60	-447.91	0.00	
10587.80	0.00	179.50	10520.00	495.02	633.60	-447.91	0.00	Bone Spring 1st
10600.00	0.00	179.50	10532.20	495.02	633.60	-447.91	0.00	
10604.84	0.00	179.50	10537.04	495.02	633.60	-447.91	0.00	KOP
10700.00	9.52	179.50	10631.76	487.14	633.67	-440.04	10.00	
10800.00	19.52	179.50	10728.45	462.11	633.89	-415.06	10.00	
10900.00	29.52	179.50	10819.32	420.67	634.25	-373.70	10.00	
11000.00	39.52	179.50	10901.61	364.08	634.74	-317.23	10.00	
11100.00	49.52	179.50	10972.83	294.06	635.35	-247.35	10.00	
11200.00	59.52	179.50	11030.80	212.74	636.06	-166.19	10.00	
11263.70	65.89	179.50	11060.00	156.16	636.56	-109.72	10.00	Bone Spring 2nd / Point of Penetration
11300.00	69.52	179.50	11073.77	122.58	636.85	-76.21	10.00	
11400.00	79.52	179.50	11100.43	26.34	637.69	19.84	10.00	
11500.00	89.52	179.50	11109.98	-73.07	638.56	119.05	10.00	
11504.84	90.00	179.50	11110.00	-77.91	638.60	123.88	10.00	Landing Point
11600.00	90.00	179.50	11110.00	-173.07	639.43	218.85	0.00	
11700.00	90.00	179.50	11110.00	-273.07	640.30	318.65	0.00	
11800.00	90.00	179.50	11110.00	-373.06	641.18	418.45	0.00	
11900.00	90.00	179.50	11110.00	-473.06	642.05	518.24	0.00	
12000.00	90.00	179.50	11110.00	-573.05	642.92	618.04	0.00	
12100.00	90.00	179.50	11110.00	-673.05	643.80	717.84	0.00	
12200.00	90.00	179.50	11110.00	-773.05	644.67	817.64	0.00	
12300.00	90.00	179.50	11110.00	-873.04	645.54	917.44	0.00	
12400.00	90.00	179.50	11110.00	-973.04	646.41	1017.23	0.00	
12500.00	90.00	179.50	11110.00	-1073.04	647.29	1117.03	0.00	
12600.00	90.00	179.50	11110.00	-1173.03	648.16	1216.83	0.00	
12700.00	90.00	179.50	11110.00	-1273.03	649.03	1316.63	0.00	



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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	90.00	179.50	11110.00	-1373.02	649.91	1416.42	0.00	
12900.00	90.00	179.50	11110.00	-1473.02	650.78	1516.22	0.00	
13000.00	90.00	179.50	11110.00	-1573.02	651.65	1616.02	0.00	
13100.00	90.00	179.50	11110.00	-1673.01	652.52	1715.82	0.00	
13200.00	90.00	179.50	11110.00	-1773.01	653.40	1815.61	0.00	
13300.00	90.00	179.50	11110.00	-1873.00	654.27	1915.41	0.00	
13400.00	90.00	179.50	11110.00	-1973.00	655.14	2015.21	0.00	
13500.00	90.00	179.50	11110.00	-2073.00	656.02	2115.01	0.00	
13600.00	90.00	179.50	11110.00	-2172.99	656.89	2214.80	0.00	
13700.00	90.00	179.50	11110.00	-2272.99	657.76	2314.60	0.00	
13800.00	90.00	179.50	11110.00	-2372.99	658.64	2414.40	0.00	
13900.00	90.00	179.50	11110.00	-2472.98	659.51	2514.20	0.00	
14000.00	90.00	179.50	11110.00	-2572.98	660.38	2613.99	0.00	
14100.00	90.00	179.50	11110.00	-2672.97	661.25	2713.79	0.00	
14200.00	90.00	179.50	11110.00	-2772.97	662.13	2813.59	0.00	
14300.00	90.00	179.50	11110.00	-2872.97	663.00	2913.39	0.00	
14400.00	90.00	179.50	11110.00	-2972.96	663.87	3013.18	0.00	
14500.00	90.00	179.50	11110.00	-3072.96	664.75	3112.98	0.00	
14600.00	90.00	179.50	11110.00	-3172.96	665.62	3212.78	0.00	
14700.00	90.00	179.50	11110.00	-3272.95	666.49	3312.58	0.00	
14800.00	90.00	179.50	11110.00	-3372.95	667.36	3412.37	0.00	
14900.00	90.00	179.50	11110.00	-3472.94	668.24	3512.17	0.00	
15000.00	90.00	179.50	11110.00	-3572.94	669.11	3611.97	0.00	
15100.00	90.00	179.50	11110.00	-3672.94	669.98	3711.77	0.00	
15200.00	90.00	179.50	11110.00	-3772.93	670.86	3811.56	0.00	
15300.00	90.00	179.50	11110.00	-3872.93	671.73	3911.36	0.00	
15400.00	90.00	179.50	11110.00	-3972.92	672.60	4011.16	0.00	
15500.00	90.00	179.50	11110.00	-4072.92	673.47	4110.96	0.00	
15600.00	90.00	179.50	11110.00	-4172.92	674.35	4210.75	0.00	
15700.00	90.00	179.50	11110.00	-4272.91	675.22	4310.55	0.00	
15800.00	90.00	179.50	11110.00	-4372.91	676.09	4410.35	0.00	
15900.00	90.00	179.50	11110.01	-4472.91	676.97	4510.15	0.00	
16000.00	90.00	179.50	11110.01	-4572.90	677.84	4609.94	0.00	
16100.00	90.00	179.50	11110.01	-4672.90	678.71	4709.74	0.00	
16200.00	90.00	179.50	11110.01	-4772.89	679.59	4809.54	0.00	
16300.00	90.00	179.50	11110.01	-4872.89	680.46	4909.34	0.00	
16400.00	90.00	179.50	11110.01	-4972.89	681.33	5009.13	0.00	
16500.00	90.00	179.50	11110.01	-5072.88	682.20	5108.93	0.00	
16600.00	90.00	179.50	11110.01	-5172.88	683.08	5208.73	0.00	
16700.00	90.00	179.50	11110.01	-5272.88	683.95	5308.53	0.00	
16800.00	90.00	179.50	11110.01	-5372.87	684.82	5408.33	0.00	
16900.00	90.00	179.50	11110.01	-5472.87	685.70	5508.12	0.00	
17000.00	90.00	179.50	11110.01	-5572.86	686.57	5607.92	0.00	
17100.00	90.00	179.50	11110.01	-5672.86	687.44	5707.72	0.00	
17200.00	90.00	179.50	11110.01	-5772.86	688.31	5807.52	0.00	
17300.00	90.00	179.50	11110.01	-5872.85	689.19	5907.31	0.00	
17400.00	90.00	179.50	11110.01	-5972.85	690.06	6007.11	0.00	
17500.00	90.00	179.50	11110.01	-6072.84	690.93	6106.91	0.00	
17600.00	90.00	179.50	11110.01	-6172.84	691.81	6206.71	0.00	
17700.00	90.00	179.50	11110.01	-6272.84	692.68	6306.50	0.00	
17800.00	90.00	179.50	11110.01	-6372.83	693.55	6406.30	0.00	
17900.00	90.00	179.50	11110.01	-6472.83	694.42	6506.10	0.00	
18000.00	90.00	179.50	11110.01	-6572.83	695.30	6605.90	0.00	
18100.00	90.00	179.50	11110.01	-6672.82	696.17	6705.69	0.00	
18200.00	90.00	179.50	11110.01	-6772.82	697.04	6805.49	0.00	
18300.00	90.00	179.50	11110.01	-6872.81	697.92	6905.29	0.00	
18400.00	90.00	179.50	11110.01	-6972.81	698.79	7005.09	0.00	
18500.00	90.00	179.50	11110.01	-7072.81	699.66	7104.88	0.00	
18600.00	90.00	179.50	11110.01	-7172.80	700.54	7204.68	0.00	
18700.00	90.00	179.50	11110.01	-7272.80	701.41	7304.48	0.00	
18800.00	90.00	179.50	11110.01	-7372.80	702.28	7404.28	0.00	
18900.00	90.00	179.50	11110.01	-7472.79	703.15	7504.07	0.00	
19000.00	90.00	179.50	11110.01	-7572.79	704.03	7603.87	0.00	
19100.00	90.00	179.50	11110.01	-7672.78	704.90	7703.67	0.00	
19200.00	90.00	179.50	11110.01	-7772.78	705.77	7803.47	0.00	
19300.00	90.00	179.50	11110.01	-7872.78	706.65	7903.26	0.00	
19400.00	90.00	179.50	11110.01	-7972.77	707.52	8003.06	0.00	
19500.00	90.00	179.50	11110.01	-8072.77	708.39	8102.86	0.00	
19600.00	90.00	179.50	11110.01	-8172.76	709.26	8202.66	0.00	
19700.00	90.00	179.50	11110.01	-8272.76	710.14	8302.45	0.00	



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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19800.00	90.00	179.50	11110.01	-8372.76	711.01	8402.25	0.00	
19900.00	90.00	179.50	11110.01	-8472.75	711.88	8502.05	0.00	
20000.00	90.00	179.50	11110.01	-8572.75	712.76	8601.85	0.00	
20100.00	90.00	179.50	11110.01	-8672.75	713.63	8701.64	0.00	
20200.00	90.00	179.50	11110.01	-8772.74	714.50	8801.44	0.00	
20300.00	90.00	179.50	11110.01	-8872.74	715.37	8901.24	0.00	
20400.00	90.00	179.50	11110.01	-8972.73	716.25	9001.04	0.00	
20500.00	90.00	179.50	11110.01	-9072.73	717.12	9100.83	0.00	
20600.00	90.00	179.50	11110.01	-9172.73	717.99	9200.63	0.00	
20700.00	90.00	179.50	11110.01	-9272.72	718.87	9300.43	0.00	
20800.00	90.00	179.50	11110.01	-9372.72	719.74	9400.23	0.00	
20900.00	90.00	179.50	11110.01	-9472.72	720.61	9500.02	0.00	
21000.00	90.00	179.50	11110.01	-9572.71	721.49	9599.82	0.00	
21100.00	90.00	179.50	11110.01	-9672.71	722.36	9699.62	0.00	
21200.00	90.00	179.50	11110.01	-9772.70	723.23	9799.42	0.00	
21300.00	90.00	179.50	11110.01	-9872.70	724.10	9899.22	0.00	
21350.85	90.00	179.50	11110.01	-9923.55	724.55	9949.97	0.00	exit
21400.00	90.00	179.50	11110.01	-9972.70	724.98	9999.01	0.00	
21430.85	90.00	179.50	11110.00	-10003.55	725.22	10029.80	0.00	BHL

Intent As Drilled

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: RAGIN CAJUN 12-13 FED COM	Well Number 17H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	12	26S	34E		46	FNL	1321	FEL	LEA
Latitude					Longitude				NAD
32.0649					-103.4195				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	12	26-S	34-E		100	NORTH	1320	EAST	LEA
Latitude					Longitude				NAD
32.064866					103.419388				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	13	26-S	34-E		100	SOUTH	1320	EAST	LEA
Latitude					Longitude				NAD
32.036374					103.419383				83

Is this well the defining well for the Horizontal Spacing Unit? Y

Is this well an infill well? N

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Ragin Cajun 12-13 Fed Com 17H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	955	0	955
9 7/8	8 5/8	32	P110	Sprint FJ	0	10504	0	10504
7 7/8	5 1/2	17	P110	DWC/C-IS+	0	21431	0	11110

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

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft ³ /sack)	Slurry Description
Surface	577	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	390	Surf	9	3.27	Lead: Class C Cement + additives
	295	8000	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	507	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	390	Surf	9	3.27	Lead: Class C Cement + additives
	295	8000	13.2	1.44	Tail: Class H / C + additives
Production	117	8605	9	3.27	Lead: Class H / C + additives
	1433	10605	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
Other*					
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
Other*					
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
Other*					
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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 Rpeort and sbumitted 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	6066
Abnormal temperature	No

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

Hydrogren 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	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

- Directional Plan
- Other, describe

Rajun Cajun 12-13 Fed Com 17H

10 3/4		surface csg in a		14 3/4		inch hole.		Design Factors				Surface	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	45.50		j 55	btc	14.29	4.06	0.62	1,100	7	1.05	7.68	50,050	
"B"				btc				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500								Totals:	1,100			50,050	
Comparison of Proposed to Minimum Required Cement Volumes Tail Cmt does not circ to sfc.													
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg		
14 3/4	0.5563	577	831	612	36	9.00	3419	5M			1.50		
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.													

8 5/8		casing inside the		10 3/4		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	vam sprint fj	2.21	0.7	1.18	10,504	1	1.98	1.17	336,128
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 421								Totals:	10,504			336,128
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1100 overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
9 7/8	0.1261	685	1700	1334	27	10.50	3616	5M			0.61	
r D V Tool(s): l by stage % : Class 'H' tail cmt yld > 1.20												
								sum of sx	Σ CuFt			Σ%excess
								1492	2862			115

5 1/2		casing inside the		8 5/8		Design Factors				Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00		p 110	dwc/c is+	2.89	1.23	1.76	21,431	2	2.94	2.07	364,327
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,444								Totals:	21,431			364,327
The cement volume(s) are intended to achieve a top of 10304 ft from surface or a 200 overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
7 7/8	0.1733	1550	2446	1929	27	10.50					0.91	
Class 'C' tail cmt yld > 1.35												

#N/A		0		5 1/2		Design Factors				<Choose Casing>		
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:								Totals:	0			0
Cmt vol calc below includes this csg, TOC intended #N/A ft from surface or a #N/A overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
0		#N/A	#N/A	0	#N/A							
#N/A Capitan Reef est top XXXX.												

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District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 284581

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 284581
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/6/2023