

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

Sundry Print Reports
04/17/2025

Well Name: GATO GRANDE 9-4 FED

STATE COM

Well Number: 714H

Well Location: T23S / R32E / SEC 9 /

SESE / 32.3125737 / -103.6747743

Type of Well: OIL WELL

County or Parish/State: LEA /

NM

Allottee or Tribe Name:

Lease Number: NMNM98192

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002551326

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2840455

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/07/2025 Time Sundry Submitted: 06:50

Date proposed operation will begin: 03/07/2025

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to move the SHL/BHL on the subject well. Devon is also requesting a variance for break testing and offline cementing. Please see attached revised C102, Drill plan, directional plan. Permitted SHL: SESE, 250 FSL, 1145 FEL, 9-23S-32E Proposed SHL: SESE, 206 FSL, 1122 FEL, 9-23S-32E Permitted BHL: Lot 1, 20 FNL, 1990 FEL, 9-23S-32E Proposed BHL: Lot 1, 20 FNL, 430 FEL, 4-23S-32E

NOI Attachments

Procedure Description

New_Site_MAP_714H_GATO_GRANDE_9_WP_3_R2_20250307125012.pdf

Offline_Cementing___Variance_Request_20250306140146.pdf

Break_Test_Variance_Offline_BOP_2_3_2025_20250306140146.pdf

GATO_GRANDE_9_4_FED_COM_714H_Directional_Plan_03_05_25_20250306140055.pdf

WA018132079_GATO_GRANDE_9_4_FED_COM_714H_R3___Signed_20250306140056.pdf

GATO_GRANDE_9_4_FED_COM_714H_combined_20250306140055.pdf

vived by OCD: 4/17/2025 10:05:09 AM Well Name: GATO GRANDE 9-4 FED

STATE COM

Well Location: T23S / R32E / SEC 9 / SESE / 32.3125737 / -103.6747743

County or Parish/State: LEA/ 2 of

Well Number: 714H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM98192

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002551326

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Additional

9 23 32 P Sundry ID 2840455 Alt 20250321095138.pdf

Gato_Grande_9_4_Fed_State_Com_714H_Dr_COA_20250321095138.pdf

9_23_32_P_Sundry_ID_2840455_20250321095139.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: LAUREN WATSON Signed on: MAR 07, 2025 06:50 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional Street Address: 333 W. SHERIDAN AVE.

City: OKLAHOMA CITY State: OK

Phone: (405) 552-3379

Email address: LAUREN.WATSON@DVN.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Phone: 5752342234

Disposition: Approved Signature: Chris Walls

BLM POC Title: Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

Disposition Date: 04/16/2025

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUR	EAU OF LAND MANA	GEMENT		5. Lease Serial No.	
Do not use this t	IOTICES AND REPOR form for proposals to Use Form 3160-3 (AP	drill or to re-	enter an	6. If Indian, Allottee or Tribe	Name
SUBMIT IN	TRIPLICATE - Other instruc	tions on page 2		7. If Unit of CA/Agreement,	Name and/or No.
1. Type of Well Oil Well Gas V	Vell Other			8. Well Name and No.	
2. Name of Operator				9. API Well No.	
3a. Address	3	b. Phone No. (include	de area code)	10. Field and Pool or Explora	atory Area
4. Location of Well (Footage, Sec., T., F.	R.,M., or Survey Description)			11. Country or Parish, State	
12. CHE	CK THE APPROPRIATE BOX	X(ES) TO INDICAT	E NATURE (DF NOTICE, REPORT OR OT	THER DATA
TYPE OF SUBMISSION			TYPE	E OF ACTION	
Notice of Intent	Acidize Alter Casing	Deepen Hydraulic F	Fracturing [Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Constr	ruction [Recomplete	Other
	Change Plans	Plug and Al	bandon [Temporarily Abandon	
Final Abandonment Notice	Convert to Injection	Plug Back	<u> </u>	Water Disposal	york and approximate duration thereof. If
is ready for final inspection.) 14. I hereby certify that the foregoing is			uding reciama	tion, nave been completed and	the operator has detennined that the site
14. I hereby certify that the folegoing is	true and correct. Name (Frint	Title			
Signature		Date			
	THE SPACE	FOR FEDERA	L OR STA	TE OFICE USE	
Approved by					
			Title		Date
Conditions of approval, if any, are attackertify that the applicant holds legal or which would entitle the applicant to con	equitable title to those rights in		Office		
Title 18 U.S.C Section 1001 and Title 4.	3 U.S.C Section 1212, make it	a crime for any pers	son knowingly	and willfully to make to any d	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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SESE / 250 FSL / 1145 FEL / TWSP: 23S / RANGE: 32E / SECTION: 9 / LAT: 32.3125737 / LONG: -103.6747743 (TVD: 0 feet, MD: 0 feet)
PPP: SESE / 100 FSL / 990 FEL / TWSP: 23S / RANGE: 32E / SECTION: 9 / LAT: 32.312163 / LONG: -103.6742723 (TVD: 12097 feet, MD: 12133 feet)
PPP: SENE / 2509 FNL / 1006 FEL / TWSP: 23S / RANGE: 32E / SECTION: 4 / LAT: 32.333876 / LONG: -103.6744218 (TVD: 12239 feet, MD: 20100 feet)
PPP: SESE / 152 FSL / 1022 FEL / TWSP: 23S / RANGE: 32E / SECTION: 4 / LAT: 32.3267303 / LONG: -103.6744736 (TVD: 12278 feet, MD: 17500 feet)
BHL: LOT 1 / 20 FNL / 990 FEL / TWSP: 23S / RANGE: 32E / SECTION: 4 / LAT: 32.3408129 / LONG: -103.6742898 (TVD: 12203 feet, MD: 22590 feet)

Devon Energy Production Company LP

10 3/4	surf	ace csg in a	14 3/4	inch hole.		Design I	actors			Surfac	e	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50		j 55	btc	13.27	3.77	0.56	1,185	7	0.94	7.13	53,918
"B"				btc				0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	1,185	-			53,918
Comparison o	f Proposed to Mir	nimum Required Ceme	ent Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
14 3/4	0.5563	711	1024	659	55	9.00	3820	5M				1.50
Burst Frac Grad	dient(s) for Segme	nt(s) A, B = , b All > 0	0.70, OK.									

8 5/8	ca	sing inside the	103/4			Design	Factors		-	Int :		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	vam sprint fj	1.98	0.62	1.07	11,737	1	1.80	1.05	375,584
"B"								0				0
1	w/8	.4#/g mud, 30min Sfc Csg Test psig	ξ:				Totals:	11,737				375,584
j		The cement vol	ume(s) are inter	nded to achieve a top of	0	ft from su	urface or a	1185				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
9 7/8	0.1261	552	795	1490	-47	10.50	3972	5M				0.61
D V Tool(s):			6915				sum of sx	<u>Σ CuFt</u>				Σ%excess
t by stage % :		31	27				1040	1917				29
Class 'C' tail cm	nt yld > 1.35											

5 1/2	casing	g inside the	8 5/8			Design Fac	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	dwc/c is+	2.99	1.82	2.16	22,638	2	3.62	3.04	452,760
"B"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 2,685				Totals:	22,638				452,760
		The cement	volume(s) are inten	ded to achieve a top of	11537	ft from su	rface or a	200				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
7 7/8	0.1733	1547	2442	1924	27	10.50						0.79
lass 'C' tail cm	t yld > 1.35											

0			5 1/2			<u>Design</u> l	Factors		<0	Choose C	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 ca	alc below includes th	is csg, TOC intended	#N/A	ft from su	rface or a	#N/A				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef est	top XXXX.								

Carlsbad Field Office 3/21/2025

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP

LOCATION: Section 9, T.23 S., R.32 E., NMPM

COUNTY: Lea County, New Mexico

WELL NAME & NO.: Gato Grande 9-4 Fed State Com 714H

ATS/API ID: 3002551326 APD ID: 10400064656

Sundry ID: 2840455

COA

Primary Design:

	7		
H2S	Yes ▼		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	□ Critical		
Variance	None	☑ Flex Hose	Other
Wellhead	Conventional and Multibov	vI 🔻	
Other	□4 String □5 String	Capitan Reef	□WIPP
		None ▼	
Other	Pilot Hole	☐ Open Annulus	
	None 🔻		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None ▼	Int 1 ▼	Squeeze
			None -
Special	☐ Water	☑ COM	□ Unit
Requirements	Disposal/Injection		
Special	☐ Batch Sundry	Waste Prevention	
Requirements		None	
Special	☑ BOPE Break Testing	✓ Offline	☐ Casing
Requirements	Offline BOPE Testing	Cementing	Clearance
Variance			

Alternate Design:

Potash	None	None ▼	
Cave/Karst Potential	Low ▼		
Cave/Karst Potential	Critical		
Other	□ 4 String □ 5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None ▼	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** 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.

Primary Design

B. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 1258 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 13 1/2 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.
- 2. The minimum required fill of cement behind the 7-5/8 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 6915'.

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 385 sxs Class C)

Operator has proposed to pump down 9-5/8" X 7-5/8" 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 7-5/8" 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. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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.

- 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.

Alternate Design

C. CASING

- 4. The 10-3/4 inch surface casing shall be set at approximately 1185 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 14 3/4 inch in diameter.
 - e. 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.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
- h. 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.

5. 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.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon at 6915'.
- d. 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 488 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. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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.

- 6. 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.

D. 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 5000 (5M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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 43 CFR 3172.6(b)(9) must be followed.

E. 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 (Approved)

- 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 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline BOPE Testing

Operator has been (Approved) to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at Lea County: 575-689-5981.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at Lea County: 575-689-5981.

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)

✓ 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.

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 of both lead and tail cement, 2) until cement has been in place at least 8 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 43 CFR 3172.6(b)(9) 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 8 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.

Long Vo (LVO) 3/21/2025

9-23-32-P Sundry ID 2840455 Devon Energy Production Company LP Lea NM98192 Gato Grande 9-4 Fed State Com 714H 13-22c 11-03-2021 LV

Devon Energy Production Company LP

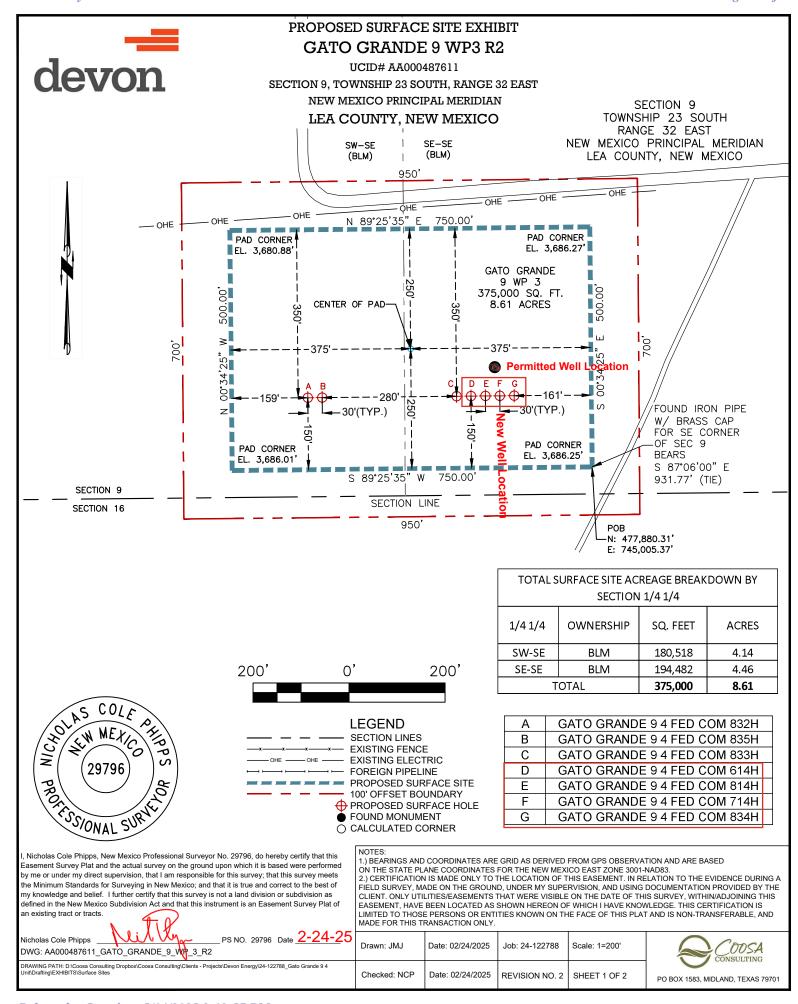
9 5/8	sı	ırface csg in a	13 1/2	inch hole.		Design I	Factors			Surfac	:e	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		j 55	btc	12.52	4.37	0.62	1,258	7	1.03	8.25	50,320
"B"				btc				0				0
	w/8.4	#/g mud, 30min Sfc Csg Test ps	g: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	1,258	_		_	50,320
Comparison o	f Proposed to	Minimum Required Cemen	t Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
13 1/2	0.4887	622	896	615	46	9.00	3820	5M				1.44
Burst Frac Grac	dient(s) for Segi	ment(s) A, B = , b All > 0.7	0, OK.									

7 5/8	c	asing inside the	9 5/8			Design	Factors -			Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70		110	talon sfc	2.63	1.13	1.62	11,737	2	2.71	1.90	348,589
"B"								0				0
	w/8	3.4#/g mud, 30min Sfc Csg Test psig	:				Totals:	11,737				348,589
j		The cement vol	ume(s) are inter	nded to achieve a top of	0	ft from su	ırface or a	1258				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
8 3/4	0.1005	439	632	1190	-47	10.50	3972	5M				0.43
D V Tool(s):			6915				sum of sx	<u>Σ CuFt</u>				Σ%excess
t by stage % :		30	26				824	1518				28
Class 'C' tail cm	t yld > 1.35											

Tail cmt									_			
5 1/2	cas	sing inside the	7 5/8			Design Fa	ctors		Prod 1			
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	р	110	talon rd	2.99	1.98	2.16	22,638	2	3.62	3.31	452,760
"B"								0				0
	w/8.4	#/g mud, 30min Sfc Csg Test psig:	2,685				Totals:	22,638				452,760
!		The cement volu	me(s) are inter	nded to achieve a top of	11537	ft from su	rface or a	200				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
6 3/4	0.0835	751	1195	928	29	10.50						0.43
Class 'C' tail cn	nt yld > 1.35											

0			5 1/2			Design I	actors		<c< th=""><th>hoose (</th><th>Casing></th><th></th></c<>	hoose (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 p	sig:				Totals:	0				0
		Cmt vol ca	Ic below includes t	his csg, TOC intended	#N/A	ft from su	rface or a	#N/A				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef es	t top XXXX.								

Carlsbad Field Office 3/21/2025



Offline Cementing

Variance Request

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressure-containing and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		X	X	X
Blind Rams		X		X
Lower Rams				X
Outside Kill Valve		X	X	X
Inside Kill Valve		X	X	X
Kill Line Check Valve		X	X	X
Inside Choke Valve		X	X	X
HCR		X	X	X
Kill Line	X			X
Annular		X		X
Choke Manifold Valves and Hose	X			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	X			X
Standpipe Valve	X			X
IBOP (Upper and Lower)	X			X

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72-hours form completing the offline BOPE component testing

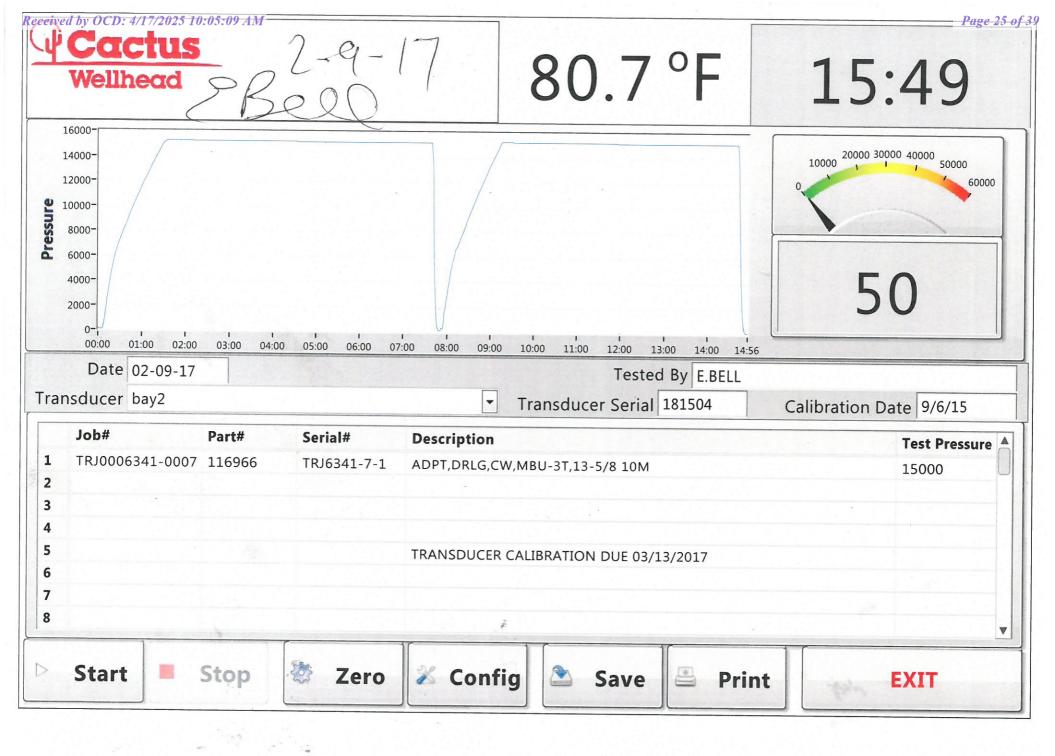
Notify the BLM if the online BOPE testing exceeds 72-hours

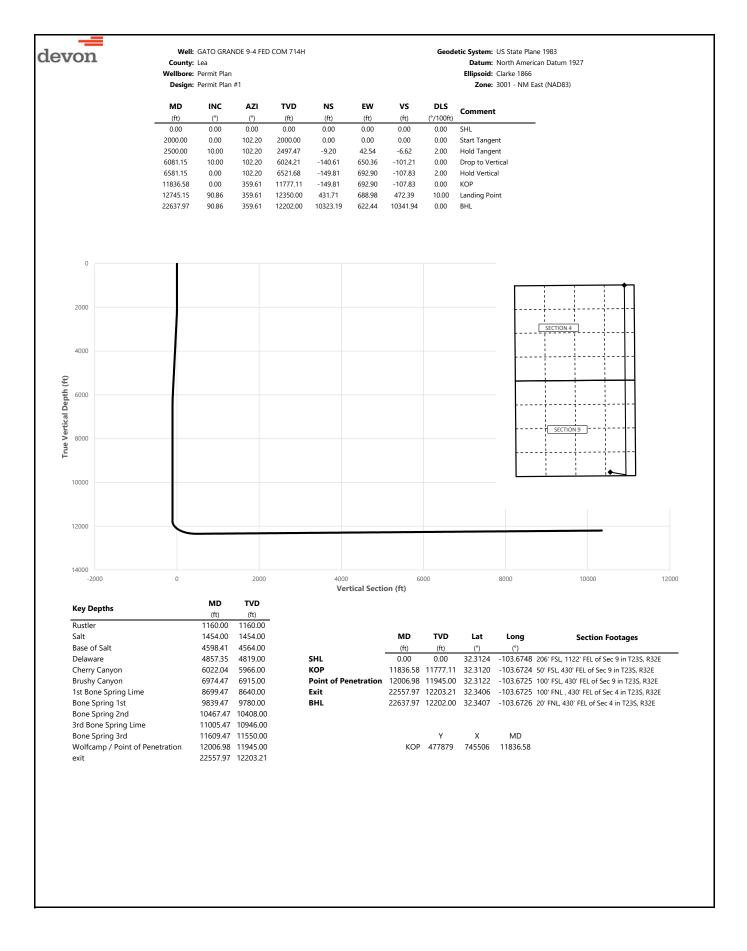
All Full Tests not completed "Offline" or "Offline, BOPE" are required to be complete Online

Devon requests Break testing as stated above for 5K tests, not including production hole

 $Annular\ Preventer\ will\ be\ tested\ to\ minimum\ of\ 70\%\ RWP\ and\ higher\ than\ MASP\ during\ initial\ BOP\ test$

Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test Full Tests required when entering production hole







Well: GATO GRANDE 9-4 FED COM 714H

Geodetic System: US State Plane 1983

County: Lea

Datum: North American Datum 1927

Wellbore: Permit Plan

Ellipsoid: Clarke 1866

Wellbore: Permit Plan

Design: Permit Plan #1

	Design: Permit Plan #1					Zone: 3001 - NM East (NAD83)			
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment	
(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft)	(ft) 0.00	(ft)	(°/100ft) 0.00	SHL	
100.00	0.00	102.20	100.00	0.00	0.00	0.00	0.00	SHL	
200.00	0.00	102.20	200.00	0.00	0.00	0.00	0.00		
300.00	0.00	102.20	300.00	0.00	0.00	0.00	0.00		
400.00	0.00	102.20	400.00	0.00	0.00	0.00	0.00		
500.00	0.00	102.20	500.00	0.00	0.00	0.00	0.00		
600.00	0.00	102.20	600.00	0.00	0.00	0.00	0.00		
700.00	0.00	102.20	700.00	0.00	0.00	0.00	0.00		
800.00 900.00	0.00	102.20 102.20	800.00 900.00	0.00	0.00	0.00	0.00		
1000.00	0.00	102.20	1000.00	0.00	0.00	0.00	0.00		
1100.00	0.00	102.20	1100.00	0.00	0.00	0.00	0.00		
1160.00	0.00	102.20	1160.00	0.00	0.00	0.00	0.00	Rustler	
1200.00	0.00	102.20	1200.00	0.00	0.00	0.00	0.00		
1300.00	0.00	102.20	1300.00	0.00	0.00	0.00	0.00		
1400.00	0.00	102.20	1400.00	0.00	0.00	0.00	0.00		
1454.00 1500.00	0.00	102.20 102.20	1454.00 1500.00	0.00	0.00	0.00 0.00	0.00	Salt	
1600.00	0.00	102.20	1600.00	0.00	0.00	0.00	0.00		
1700.00	0.00	102.20	1700.00	0.00	0.00	0.00	0.00		
1800.00	0.00	102.20	1800.00	0.00	0.00	0.00	0.00		
1900.00	0.00	102.20	1900.00	0.00	0.00	0.00	0.00		
2000.00	0.00	102.20	2000.00	0.00	0.00	0.00	0.00	Start Tangent	
2100.00	2.00	102.20	2099.98	-0.37	1.71	-0.27	2.00		
2200.00	4.00	102.20	2199.84	-1.47	6.82	-1.06	2.00		
2300.00 2400.00	6.00 8.00	102.20 102.20	2299.45 2398.70	-3.32 -5.89	15.34 27.25	-2.39 -4.24	2.00 2.00		
2500.00	10.00	102.20	2497.47	-9.20	42.54	-4.24 -6.62	2.00	Hold Tangent	
2600.00	10.00	102.20	2595.95	-12.87	59.51	-9.26	0.00	Tiola tangent	
2700.00	10.00	102.20	2694.43	-16.54	76.48	-11.90	0.00		
2800.00	10.00	102.20	2792.91	-20.21	93.46	-14.54	0.00		
2900.00	10.00	102.20	2891.39	-23.88	110.43	-17.19	0.00		
3000.00	10.00	102.20	2989.87	-27.55	127.40	-19.83	0.00		
3100.00 3200.00	10.00 10.00	102.20 102.20	3088.35 3186.83	-31.21 -34.88	144.38 161.35	-22.47 -25.11	0.00		
3300.00	10.00	102.20	3285.31	-34.66	178.32	-23.11	0.00		
3400.00	10.00	102.20	3383.79	-42.22	195.29	-30.39	0.00		
3500.00	10.00	102.20	3482.27	-45.89	212.27	-33.03	0.00		
3600.00	10.00	102.20	3580.75	-49.56	229.24	-35.68	0.00		
3700.00	10.00	102.20	3679.23	-53.23	246.21	-38.32	0.00		
3800.00	10.00	102.20	3777.72	-56.90	263.18	-40.96	0.00		
3900.00 4000.00	10.00	102.20 102.20	3876.20 3974.68	-60.57	280.16	-43.60 -46.24	0.00		
4100.00	10.00 10.00	102.20	4073.16	-64.24 -67.91	297.13 314.10	-48.88	0.00		
4200.00	10.00	102.20	4171.64	-71.58	331.07	-51.52	0.00		
4300.00	10.00	102.20	4270.12	-75.25	348.05	-54.17	0.00		
4400.00	10.00	102.20	4368.60	-78.92	365.02	-56.81	0.00		
4500.00	10.00	102.20	4467.08	-82.59	381.99	-59.45	0.00		
4598.41	10.00	102.20	4564.00	-86.20	398.70	-62.05	0.00	Base of Salt	
4600.00 4700.00	10.00	102.20 102.20	4565.56 4664.04	-86.26 -89.93	398.97 415.94	-62.09 -64.73	0.00		
4800.00	10.00 10.00	102.20	4664.04 4762.52	-89.93 -93.60	432.91	-64.73 -67.37	0.00		
4857.35	10.00	102.20	4819.00	-95.70	442.64	-68.89	0.00	Delaware	
4900.00	10.00	102.20	4861.00	-97.27	449.88	-70.01	0.00		
5000.00	10.00	102.20	4959.48	-100.94	466.86	-72.66	0.00		
5100.00	10.00	102.20	5057.97	-104.61	483.83	-75.30	0.00		
5200.00	10.00	102.20	5156.45	-108.28	500.80	-77.94	0.00		
5300.00 5400.00	10.00 10.00	102.20 102.20	5254.93 5353.41	-111.95 -115.62	517.77 534.75	-80.58 -83.22	0.00		
5500.00	10.00	102.20	5451.89	-115.62	551.72	-85.86	0.00		
5600.00	10.00	102.20	5550.37	-113.23	568.69	-88.50	0.00		
5700.00	10.00	102.20	5648.85	-126.62	585.66	-91.15	0.00		
5800.00	10.00	102.20	5747.33	-130.29	602.64	-93.79	0.00		
5900.00	10.00	102.20	5845.81	-133.96	619.61	-96.43	0.00		
6000.00	10.00	102.20	5944.29	-137.63	636.58	-99.07	0.00		
6022.04	10.00	102.20	5966.00	-138.44 140.61	640.32	-99.65 101.21	0.00	Cherry Canyon Prop to Vertical	
6081.15 6100.00	10.00 9.62	102.20 102.20	6024.21 6042.78	-140.61 -141.29	650.36 653.50	-101.21 -101.70	0.00 2.00	Drop to Vertical	
6200.00	7.62	102.20	6141.65	-144.46	668.15	-103.98	2.00		
6300.00	5.62	102.20	6240.98	-146.90	679.42	-105.74	2.00		



Well: GATO GRANDE 9-4 FED COM 714H

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	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)			(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6400.00	(°) 3.62	(°) 102.20	6340.65	-148.60	687.30	-106.96	2.00	
6500.00	1.62	102.20	6440.54	-149.57	691.77	-100.30	2.00	
			6521.68					Hold Vertical
6581.15	0.00	102.20		-149.81	692.90	-107.83	2.00	Hold Vertical
6600.00	0.00	359.61	6540.53	-149.81	692.90	-107.83	0.00	
6700.00	0.00	359.61	6640.53	-149.81	692.90	-107.83	0.00	
6800.00	0.00	359.61	6740.53	-149.81	692.90	-107.83	0.00	
6900.00	0.00	359.61	6840.53	-149.81	692.90	-107.83	0.00	
6974.47	0.00	359.61	6915.00	-149.81	692.90	-107.83	0.00	Brushy Canyon
7000.00	0.00	359.61	6940.53	-149.81	692.90	-107.83	0.00	
7100.00	0.00	359.61	7040.53	-149.81	692.90	-107.83	0.00	
7200.00	0.00	359.61	7140.53	-149.81	692.90	-107.83	0.00	
7300.00	0.00	359.61	7240.53	-149.81	692.90	-107.83	0.00	
7400.00	0.00	359.61	7340.53	-149.81	692.90	-107.83	0.00	
7500.00	0.00	359.61	7440.53	-149.81	692.90	-107.83	0.00	
7600.00	0.00	359.61	7540.53	-149.81	692.90	-107.83	0.00	
7700.00	0.00	359.61	7640.53	-149.81	692.90	-107.83	0.00	
7800.00	0.00	359.61	7740.53	-149.81	692.90	-107.83	0.00	
7900.00	0.00	359.61	7840.53	-149.81	692.90	-107.83	0.00	
8000.00	0.00	359.61	7940.53	-149.81	692.90	-107.83	0.00	
8100.00	0.00	359.61	8040.53	-149.81	692.90	-107.83	0.00	
8200.00	0.00	359.61	8140.53	-149.81	692.90	-107.83	0.00	
8300.00	0.00	359.61	8240.53	-149.81	692.90	-107.83	0.00	
8400.00	0.00	359.61	8340.53	-149.81	692.90	-107.83	0.00	
8500.00	0.00	359.61	8440.53	-149.81	692.90	-107.83	0.00	
8600.00	0.00	359.61	8540.53	-149.81	692.90	-107.83	0.00	4.5.6.1.11
8699.47	0.00	359.61	8640.00	-149.81	692.90	-107.83	0.00	1st Bone Spring Lime
8700.00	0.00	359.61	8640.53	-149.81	692.90	-107.83	0.00	
8800.00	0.00	359.61	8740.53	-149.81	692.90	-107.83	0.00	
8900.00	0.00	359.61	8840.53	-149.81	692.90	-107.83	0.00	
9000.00	0.00	359.61	8940.53	-149.81	692.90	-107.83	0.00	
9100.00	0.00	359.61	9040.53	-149.81	692.90	-107.83	0.00	
9200.00	0.00	359.61	9140.53	-149.81	692.90	-107.83	0.00	
9300.00	0.00	359.61	9240.53	-149.81	692.90	-107.83	0.00	
9400.00	0.00	359.61	9340.53	-149.81	692.90	-107.83	0.00	
9500.00	0.00	359.61	9440.53	-149.81	692.90	-107.83	0.00	
9600.00	0.00	359.61	9540.53	-149.81	692.90	-107.83	0.00	
9700.00	0.00	359.61	9640.53	-149.81	692.90	-107.83	0.00	
9800.00	0.00	359.61	9740.53	-149.81	692.90	-107.83	0.00	
9839.47	0.00	359.61	9780.00	-149.81	692.90	-107.83	0.00	Bone Spring 1st
	0.00	359.61	9840.53			-107.83	0.00	bone spring 1st
9900.00				-149.81	692.90			
10000.00	0.00	359.61	9940.53	-149.81	692.90	-107.83	0.00	
10100.00	0.00	359.61	10040.53	-149.81	692.90	-107.83	0.00	
10200.00	0.00	359.61	10140.53	-149.81	692.90	-107.83	0.00	
10300.00	0.00	359.61	10240.53	-149.81	692.90	-107.83	0.00	
10400.00	0.00	359.61	10340.53	-149.81	692.90	-107.83	0.00	
10467.47	0.00	359.61	10408.00	-149.81	692.90	-107.83	0.00	Bone Spring 2nd
10500.00	0.00	359.61	10440.53	-149.81	692.90	-107.83	0.00	
10600.00	0.00	359.61	10540.53	-149.81	692.90	-107.83	0.00	
10700.00	0.00	359.61	10640.53	-149.81	692.90	-107.83	0.00	
10800.00	0.00	359.61	10740.53	-149.81	692.90	-107.83	0.00	
10900.00	0.00	359.61	10840.53	-149.81	692.90	-107.83	0.00	
11000.00	0.00	359.61	10940.53	-149.81	692.90	-107.83	0.00	
11005.47	0.00	359.61	10946.00	-149.81	692.90	-107.83	0.00	3rd Bone Spring Lime
11100.00	0.00	359.61	11040.53	-149.81	692.90	-107.83	0.00	
11200.00	0.00	359.61	11140.53	-149.81	692.90	-107.83	0.00	
11300.00	0.00	359.61	11140.53	-149.81	692.90	-107.83	0.00	
				-149.81		-107.83		
11400.00	0.00	359.61	11340.53	-149.81 -149.81	692.90		0.00	
11500.00	0.00	359.61	11440.53		692.90	-107.83	0.00	
11600.00	0.00	359.61	11540.53	-149.81	692.90	-107.83	0.00	
11609.47	0.00	359.61	11550.00	-149.81	692.90	-107.83	0.00	Bone Spring 3rd
11700.00	0.00	359.61	11640.53	-149.81	692.90	-107.83	0.00	
11800.00	0.00	359.61	11740.53	-149.81	692.90	-107.83	0.00	
11836.58	0.00	359.61	11777.11	-149.81	692.90	-107.83	0.00	KOP
11900.00	6.34	359.61	11840.40	-146.30	692.87	-104.34	10.00	
12000.00	16.34	359.61	11938.32	-126.66	692.74	-84.74	10.00	
12006.98	17.04	359.61	11945.00	-124.66	692.73	-82.74	10.00	Wolfcamp / Point of Penetration
12100.00	26.34	359.61	12031.34	-90.32	692.50	-48.47	10.00	•
12200.00	36.34	359.61	12116.64	-38.37	692.15	3.36	10.00	
12300.00	46.34	359.61	12191.63	27.60	691.70	69.18	10.00	
	56.34	359.61	12254.01	105.59	691.18	147.00	10.00	
12400.00		JJJ.U I	12234.01	100.00	051.10	1-7.00	10.00	



Well: GATO GRANDE 9-4 FED COM 714H

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)

	Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)			
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment		
12500.00	66.34	359.61	12301.91	193.22	690.59	234.44	10.00			
12600.00	76.34	359.61	12333.86	287.85	689.95	328.85	10.00			
12700.00	86.34	359.61	12348.90	386.58	689.28	427.36	10.00			
12745.15	90.86	359.61	12350.00	431.71	688.98	472.39	10.00	Landing Point		
12800.00	90.86	359.61	12349.18	486.55	688.61	527.11	0.00			
12900.00	90.86	359.61	12347.68	586.53	687.94	626.87	0.00			
13000.00	90.86	359.61	12346.19	686.52	687.27	726.64	0.00			
13100.00	90.86	359.61	12344.69	786.51	686.60	826.40	0.00			
13200.00	90.86	359.61	12343.20	886.49	685.92	926.17	0.00			
13300.00	90.86	359.61	12341.70	986.48	685.25	1025.93	0.00			
13400.00	90.86	359.61	12340.20	1086.47	684.58	1125.70	0.00			
13500.00	90.86	359.61	12338.71	1186.45	683.90	1225.46	0.00			
13600.00	90.86	359.61	12337.21	1286.44	683.23	1325.23	0.00			
13700.00	90.86	359.61	12335.72	1386.43	682.56	1424.99	0.00			
13800.00	90.86	359.61	12334.22	1486.41	681.88	1524.76	0.00			
13900.00	90.86	359.61	12332.73	1586.40	681.21	1624.52	0.00			
14000.00	90.86	359.61	12331.23	1686.38	680.54	1724.29	0.00			
14100.00	90.86	359.61	12329.73	1786.37	679.86	1824.05	0.00			
14200.00	90.86	359.61	12328.24	1886.36	679.19	1923.82	0.00			
14300.00	90.86	359.61	12326.74	1986.34	678.52	2023.58	0.00			
14400.00	90.86	359.61	12325.25	2086.33	677.84	2123.35	0.00			
14500.00	90.86	359.61	12323.75	2186.32	677.17	2223.11	0.00			
14600.00	90.86	359.61	12322.25	2286.30	676.50	2322.88	0.00			
14700.00	90.86	359.61	12320.76	2386.29	675.82	2422.64	0.00			
14800.00 14900.00	90.86 90.86	359.61 359.61	12319.26 12317.77	2486.28 2586.26	675.15 674.48	2522.41 2622.17	0.00			
15000.00	90.86	359.61	12317.77	2686.25	673.80	2721.93	0.00			
15100.00	90.86	359.61	12314.77	2786.24	673.13	2821.70	0.00			
15200.00	90.86	359.61	12313.28	2886.22	672.46	2921.46	0.00			
15300.00	90.86	359.61	12311.78	2986.21	671.79	3021.23	0.00			
15400.00	90.86	359.61	12310.29	3086.20	671.11	3120.99	0.00			
15500.00	90.86	359.61	12308.79	3186.18	670.44	3220.76	0.00			
15600.00	90.86	359.61	12307.29	3286.17	669.77	3320.52	0.00			
15700.00	90.86	359.61	12305.80	3386.16	669.09	3420.29	0.00			
15800.00	90.86	359.61	12304.30	3486.14	668.42	3520.05	0.00			
15900.00	90.86	359.61	12302.81	3586.13	667.75	3619.82	0.00			
16000.00	90.86	359.61	12301.31	3686.12	667.07	3719.58	0.00			
16100.00	90.86	359.61	12299.82	3786.10	666.40	3819.35	0.00			
16200.00	90.86	359.61	12298.32	3886.09	665.73	3919.11	0.00			
16300.00	90.86	359.61	12296.82	3986.08	665.05	4018.88	0.00			
16400.00	90.86	359.61	12295.33	4086.06	664.38	4118.64	0.00			
16500.00	90.86	359.61	12293.83	4186.05	663.71	4218.41	0.00			
16600.00	90.86	359.61	12292.34	4286.03	663.03	4318.17	0.00			
16700.00	90.86	359.61	12290.84	4386.02	662.36	4417.94	0.00			
16800.00	90.86	359.61	12289.34	4486.01	661.69	4517.70	0.00			
16900.00	90.86	359.61	12287.85	4585.99	661.01	4617.47	0.00			
17000.00	90.86	359.61	12286.35	4685.98	660.34	4717.23	0.00			
17100.00	90.86	359.61	12284.86	4785.97	659.67	4816.99	0.00			
17200.00	90.86	359.61	12283.36	4885.95	658.99	4916.76	0.00			
17300.00	90.86	359.61	12281.86	4985.94	658.32	5016.52	0.00			
17400.00	90.86	359.61	12280.37	5085.93	657.65	5116.29	0.00			
17500.00	90.86	359.61	12278.87	5185.91	656.98	5216.05	0.00			
17600.00	90.86	359.61	12277.38	5285.90	656.30	5315.82	0.00			
17700.00	90.86	359.61	12275.88	5385.89	655.63	5415.58	0.00			
17800.00	90.86	359.61	12274.38	5485.87	654.96	5515.35	0.00			
17900.00	90.86	359.61	12272.89	5585.86	654.28	5615.11	0.00			
18000.00 18100.00	90.86	359.61	12271.39	5685.85	653.61	5714.88	0.00			
	90.86	359.61	12269.90	5785.83	652.94	5814.64	0.00			
18200.00	90.86	359.61	12268.40	5885.82	652.26	5914.41	0.00			
18300.00	90.86	359.61	12266.91	5985.81	651.59	6014.17	0.00			
18400.00	90.86	359.61 359.61	12265.41	6085.79	650.92	6113.94	0.00			
18500.00 18600.00	90.86		12263.91	6185.78	650.24 649.57	6213.70 6313.47	0.00			
18600.00	90.86 90.86	359.61 359.61	12262.42 12260.92	6285.77 6385.75	648.90	6313.47 6413.23	0.00			
18700.00		359.61	12259.43		648.90 648.22		0.00			
18900.00	90.86 90.86	359.61 359.61	12259.43	6485.74 6585.73	648.22	6513.00 6612.76	0.00			
19000.00	90.86	359.61	12257.93	6685.71	646.88	6712.53	0.00			
19000.00	90.86	359.61	12256.43	6785.70	646.20	6812.29	0.00			
19200.00	90.86	359.61	12253.44	6885.69	645.53	6912.05	0.00			
19300.00	90.86	359.61	12251.95	6985.67	644.86	7011.82	0.00			



Well: GATO GRANDE 9-4 FED COM 714H

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	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19400.00	90.86	359.61	12250.45	7085.66	644.18	7111.58	0.00	_
19500.00	90.86	359.61	12248.95	7185.64	643.51	7211.35	0.00	
19600.00	90.86	359.61	12247.46	7285.63	642.84	7311.11	0.00	
19700.00	90.86	359.61	12245.96	7385.62	642.17	7410.88	0.00	
19800.00	90.86	359.61	12244.47	7485.60	641.49	7510.64	0.00	
19900.00	90.86	359.61	12242.97	7585.59	640.82	7610.41	0.00	
20000.00	90.86	359.61	12241.48	7685.58	640.15	7710.17	0.00	
20100.00	90.86	359.61	12239.98	7785.56	639.47	7809.94	0.00	
20200.00	90.86	359.61	12238.48	7885.55	638.80	7909.70	0.00	
20300.00	90.86	359.61	12236.99	7985.54	638.13	8009.47	0.00	
20400.00	90.86	359.61	12235.49	8085.52	637.45	8109.23	0.00	
20500.00	90.86	359.61	12234.00	8185.51	636.78	8209.00	0.00	
20600.00	90.86	359.61	12232.50	8285.50	636.11	8308.76	0.00	
20700.00	90.86	359.61	12231.00	8385.48	635.43	8408.53	0.00	
20800.00	90.86	359.61	12229.51	8485.47	634.76	8508.29	0.00	
20900.00	90.86	359.61	12228.01	8585.46	634.09	8608.06	0.00	
21000.00	90.86	359.61	12226.52	8685.44	633.41	8707.82	0.00	
21100.00	90.86	359.61	12225.02	8785.43	632.74	8807.59	0.00	
21200.00	90.86	359.61	12223.52	8885.42	632.07	8907.35	0.00	
21300.00	90.86	359.61	12222.03	8985.40	631.39	9007.11	0.00	
21400.00	90.86	359.61	12220.53	9085.39	630.72	9106.88	0.00	
21500.00	90.86	359.61	12219.04	9185.38	630.05	9206.64	0.00	
21600.00	90.86	359.61	12217.54	9285.36	629.37	9306.41	0.00	
21700.00	90.86	359.61	12216.04	9385.35	628.70	9406.17	0.00	
21800.00	90.86	359.61	12214.55	9485.34	628.03	9505.94	0.00	
21900.00	90.86	359.61	12213.05	9585.32	627.36	9605.70	0.00	
22000.00	90.86	359.61	12211.56	9685.31	626.68	9705.47	0.00	
22100.00	90.86	359.61	12210.06	9785.29	626.01	9805.23	0.00	
22200.00	90.86	359.61	12208.57	9885.28	625.34	9905.00	0.00	
22300.00	90.86	359.61	12207.07	9985.27	624.66	10004.76	0.00	
22400.00	90.86	359.61	12205.57	10085.25	623.99	10104.53	0.00	
22500.00	90.86	359.61	12204.08	10185.24	623.32	10204.29	0.00	
22557.97	90.86	359.61	12203.21	10243.20	622.93	10262.12	0.00	exit
22600.00	90.86	359.61	12202.58	10285.23	622.64	10304.06	0.00	
22637.97	90.86	359.61	12202.00	10323.19	622.44	10341.94	0.00	BHL

C-10	2 Electronicall	v	En		nerals & Nat	-	ew Mexico Iral Resources Department TION DIVISION			Revised July 9, 2024		
	Permitting	у		OIL C	JONOLIVA	CHOIL DIVISION		Submittal	☑ Initial Su			
ŧ								Type:	☐ Amende	•		
					WELLLOCAT	☐ As Drilled						
API Nu	ımber		Pool Code	[98248	i	Pool Name	205 0 00 0	.0.400.475				
Propert	ty Code)-025-51326	Property N		1	WC-0	025 G-08 S	5243217P;	UPR WOLF			
Порсп		[333920]			GATO GR	ANDE 9 4 FED COM				714H		
OGRID	No. 6137		Operator N		N ENERGY P	RODUCTION COMPA	NY, L.P.		1	vel Elevation , 683.90'		
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal					Federal	Mineral Owr	ner: 🗹 State	e 🗆 Fee 🗆	☐ Tribal ☑ Fe	ederal		
					Surf	ace Location						
UL	Section	Township	Range			Ft. from E/W	Latitude	Lo	ongitude	County		
P	9	238	32E		206' FSL	1,122' FEL	32.312	454° -10	03.674699°	LEA		
			1		Bottor	n Hole Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County		
LOT 1	4	23S	32E		20' FNL	430' FEL	32.340	319° -10	03.672478°	LEA		
Dedica	ted Acres	Infill or Defir	ning Well	Defining 33-025	Well API -51323	Overlapping Spacing	Unit (Y/N)	Consolidat	ion Code			
Order N	Numbers.			•		Well setbacks are under Common Ownership: □Yes □No						
	Kick Off Point (KOP)											
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County		
P	9	23S	32E		50' FSL	430' FEL	32.312	032° -10	03.672460°	LEA		
-					+	ake Point (FTP)						
UL_	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County		
Р	9	23S	32E		100' FSL	430' FEL	32.312169° -10		03.672460°	LEA		
UL	Section	Township	Range	Lot	Ft. from N/S	ake Point (LTP) Ft. from E/W	ongitude	County				
LOT 1	4	238	32E		100' FNL	430' FEL	Latitude 32.340 !		03.672478°	LEA		
Unitize	d Area or A	rea of Uniform	Interest	Spacing	Unit Type ☑ H	orizontal □ Vertical	Grou	nd Floor Ele	evation:			
OPERA	ATOR CER	TIFICATIONS				SURVEYOR CERTIFIC	CATIONS					
best of r that this in the la well at ti unlease pooling If this we the cons mineral the wall	my knowledge organization not including this location p d mineral intorder heretof lell is a horizo sent of at least interest in earls completed on the division.	e and belief, and either owns a value proposed bursuant to a corect, or to a voore entered by the trail well, I furthest one lessee or ch tract (in the trails).	d, if the well is vorking interes outloom hole location threat with an olluntary pooling he division. For certify that the owner of a wo larget pool or for cated or obtain	a vertical or t or unlease tion or has a wner of a w agreement is organizat rking interes ormation) in	which any part of oulsory pooling	I hereby certify that the we actual surveys made by no correct to the best of my the surveys made by no correct to the best of my the survey of the survey o	HIPPS P.S.I G CORPOR	y supervision	, and that the s	ame is true and		
	en Wats	son				Signature and Sear OF PIC	Jiessiuliai sul					
Printed	_{Name} en.Wat	son@dvn	.com			Certificate Number 29796	Date of Survey 2/7/2025					
Note: No	allowable	will be assigne	ed to this cor	nnletion ur	ntil all interests l	nave been consolidated o	r a non-stan	dard unit ha	s heen annro	ved by the division		

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ACREAGE DEDICATION PLATS

CORNER COORDINATES

В

С

D

Е

F

G

Н

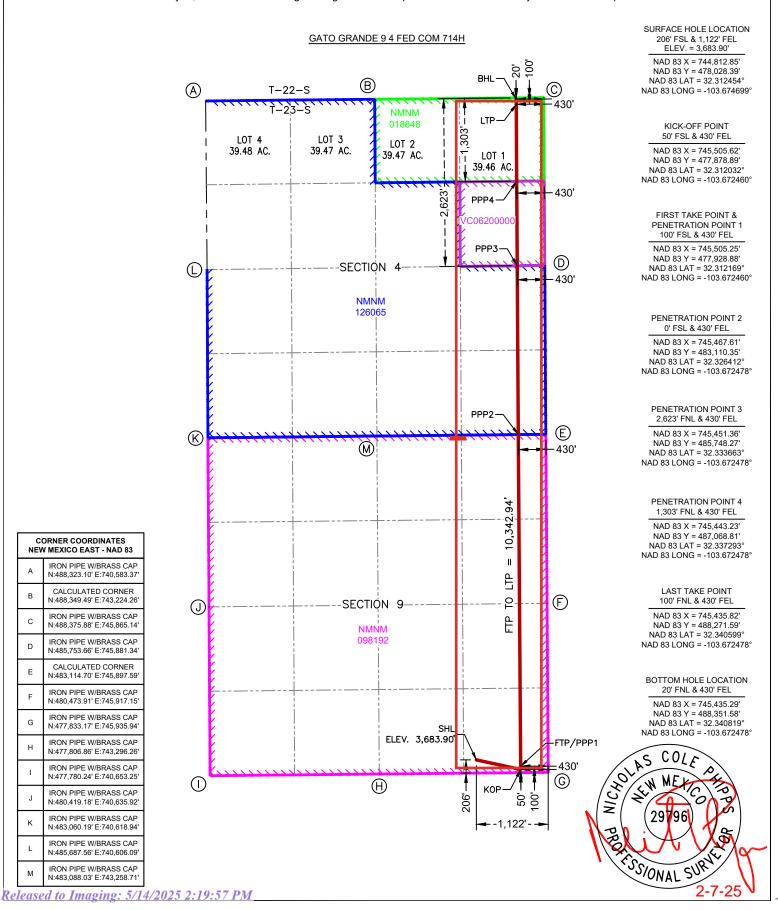
J

K

L

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



GATO GRANDE 9-4 FED COM 714H

1. Geologic Formations

TVD of target	12203	Pilot hole depth	N/A
MD at TD:	22638	Deepest expected fresh water	

Basin

Dasiii	D (1	XX 4 /3/1° 1	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1160		
Salt	1454		
Base of Salt	4564		
Delaware	4819		
Cherry Canyon	5966		
Brushy Canyon	6915		
1st Bone Spring Lime	8640		
Bone Spring 1st	9780		
Bone Spring 2nd	10408		
3rd Bone Spring Lime	10946		
Bone Spring 3rd	11550		
Wolfcamp	11945		

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	BTC	0	1185	0	1185
8 3/4	7 5/8	29.7	P110HP	TALON SFC	0	11737	0	11737
6 3/4	5 1/2	20	P110HP	TALON RD	0	22638	0	12203

[•]All casing strings will be tested in accordance with 43 CFR 3172.

3. Cementing Program (Primary Design)

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	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	622	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	385	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	439	6974	13.2	1.44	Tail: Class H / C + additives
Production	62	9837	9	3.27	Lead: Class H /C + additives
Froduction	689	11837	13.2	1.44	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

2. Casing Program (Secondary Design)

		Wt		Conn	Casing	Interval	Casing Interval		
Hole Size	Csg. Size	(PPF)	Grade		From (MD)	To (MD)	From (TVD)	To (TVD)	
14 3/4	10 3/4	45 1/2	J-55	ВТС	0	1185	0	1185	
9 7/8	8 5/8	32	P110	Sprint FJ	0	11737	0	11737	
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	22638	0	12203	

[•]All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program (Secondary Design)

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	# Sks	TOC	Wt.	Yld (ft3/sack)	Slurry Description
Surface	711	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	488	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int 1	552	6974	13.2	1.44	Tail: Class H / C + additives
Production	117	9837	9	3.27	Lead: Class H /C + additives
Production	1430	11837	13.2	1.44	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	ype	✓	Tested to:
	Annular		nular	X	50% of rated working pressure	
Int 1	13-5/8"	5M	Blind Ram		X	
IIIt 1	13-3/0	3111		Ram		5M
			Doub	le Ram	X	JIVI
			Other*			
			Annul	ar (5M)	X	100% of rated working
	13-5/8"	10M	Annular (5M)		Α	pressure
Production			Blind Ram		X	
Troduction			Pipe Ram Double Ram Other*			10M
					X	10111
			Annul	ar (5M)		
			Bline	d Ram		
	Pipe Ram			1		
			Double Ram			1
			Other*			1
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
	A variance is requested to run a 5 M annular on a 10M system					

5. Mud Program

Section	Туре	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				
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the			
X	Completion Report and shumitted 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	Specfiy what type and where?
BH pressure at deepest TVD	6663
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 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N H2S is present
Y H2S plan attached.

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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.
- 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 (43 CFR 3172, 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 nippled 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.

Attachm	ents
X	Directional Plan
	Other, describe

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 453093

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	453093
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	5/14/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	5/14/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	5/14/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	5/14/2025