Sundry Print Reports

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

Well Name: Cotton Draw Unit Well Location: T24S / R31E / SEC 25 / County or Parish/State:

NWNW /

Well Number: 613H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM012121 Unit or CA Name: COTTON DRAW Unit or CA Number:

UNIT NMNM70928X

US Well Number: 3001549134 Well Status: Approved Application for Operator: DEVON ENERGY

Permit to Drill PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2752621

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/21/2023 Time Sundry Submitted: 12:37

Date proposed operation will begin: 09/21/2023

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: Name Change from Cotton Draw 25-36 Fed State Com 613H to Cotton Draw Unit 613H BHL change from 2620 FNL & 330 FWL, 35-24S-31E to 20 FSL & 495 FEL, 2-25S-31E. Dedicated acreage revision. New leases have been added since approved APD and notification has been given. TVD/MD change from 12,151'/19,835' to 11,940'/27,562' Casing program change: Surface, Intermediate, & Production casing changes. Cement volume changes to accommodate casing change. Please see attached revised C-102, spec sheets, and drilling & directional plans.

NOI Attachments

Procedure Description

MB_Wellhd_10M_13.375_8.625_5.5_20230921123453.PDF

COTTON_DRAW_UNIT_613H_Directional_Plan_09_15_23_20230921123446.pdf

8.625in_32lb_P110EC_SPRINT_FJ_20230921123445.pdf

COTTON_DRAW_UNIT_613H_20230921123445.pdf

10.750_45.5_J55_20230921123445.pdf

COTTON_DRAW_UNIT_613H_C_102_NAME_BHL_NOI_20230921123446.pdf

5.5in_17lb_P110EC_DWC_C_IS_PLUS_20230921123445.pdf

well Name: Cotton Draw Unit Well Location: T24S / R31E / SEC 25 / County or Parish/State: Page 2 of

NWNW /

Well Number: 613H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM012121 Unit or CA Name: COTTON DRAW Unit or CA Number:

UNIT NMNM70928X

US Well Number: 3001549134 Well Status: Approved Application for Operator: DEVON ENERGY

Permit to Drill PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

COTTON 1 20230929091324.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: SEP 21, 2023 12:35 PM

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: 5752345972 **BLM POC Email Address:** LVO@BLM.GOV

Disposition: Approved **Disposition Date:** 09/29/2023

Signature: Long Vo

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMENT		5. Lease Serial No.			
SUNDRY NOTICES AND REPORTS ON V Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for sur	o re-enter an	6. If Indian, Allottee or	Tribe Name		
SUBMIT IN TRIPLICATE - Other instructions on pag	ge 2	7. If Unit of CA/Agree	ment, Name and/or No.		
1. Type of Well Oil Well Gas Well Other		8. Well Name and No.			
2. Name of Operator		9. API Well No.			
	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
3a. Address 3b. Phone No.	(include area code)	10. Field and Pool or E	xploratory Area		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, S	State		
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOTI	CE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION	TYPE OF AC	ΓΙΟΝ			
Notice of Intent Acidize Deep Alter Casing Hyde	_	uction (Start/Resume) amation	Water Shut-Off Well Integrity		
Subsequent Report — — — — —	=	omplete	Other		
	=	porarily Abandon er Disposal			
completion of the involved operations. If the operation results in a multiple cor completed. Final Abandonment Notices must be filed only after all requirement is ready for final inspection.)					
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title				
Signature	Date				
THE SPACE FOR FED	ERAL OR STATE OF	ICE USE			
Approved by					
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject lewhich would entitle the applicant to conduct operations thereon.		D	Pate		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for a any false, fictitious or fraudulent statements or representations as to any matter with		fully to make to any dep	partment or agency of the United States		

(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

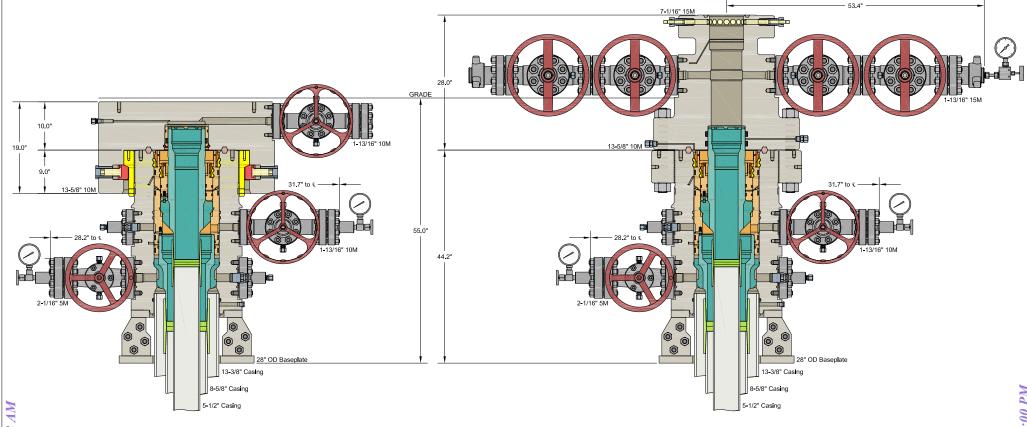
Location of Well

0. SHL: NWNW / 200 FNL / 165 FWL / TWSP: 24S / RANGE: 31E / SECTION: 25 / LAT: 32.1950508 / LONG: -103.7395125 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 25 / LAT: 32.1953259 / LONG: -103.7389793 (TVD: 11760 feet, MD: 11779 feet)

BHL: SWNW / 2620 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 36 / LAT: 32.1738842 / LONG: -103.7389941 (TVD: 12151 feet, MD: 19835 feet)





INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

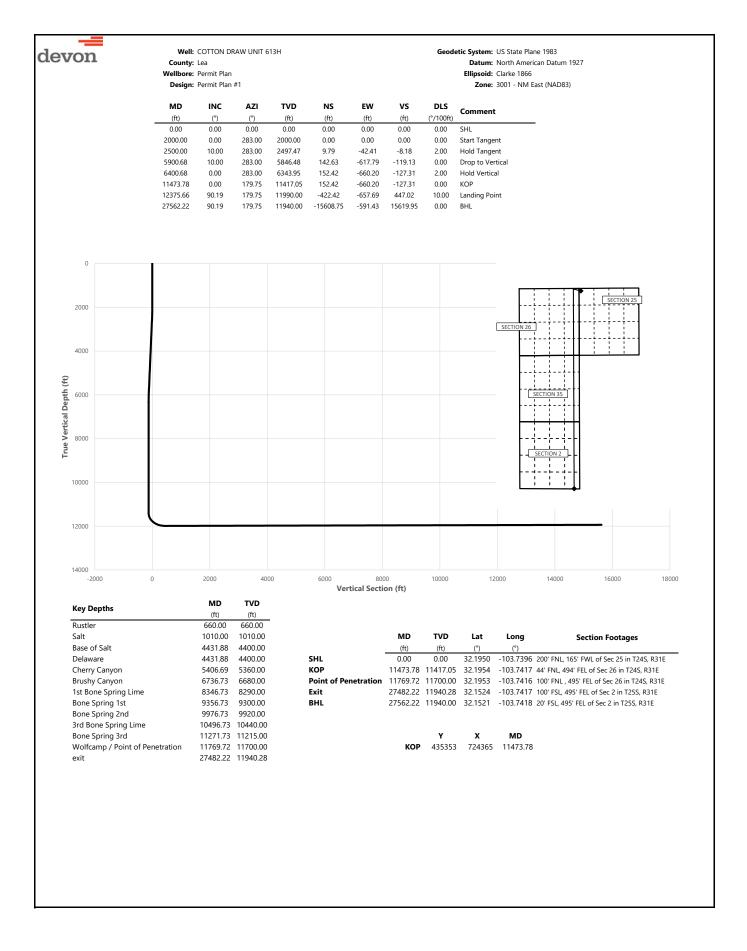
CACTUS WELLHEAD LLC

13-3/8" x 8-5/8" x 5-1/2" 5M MBU-3T Wellhead System With 8-5/8" & 5-1/2" Pin Down Rotating Mandrel Hangers And 13-5/8" 10M x 7-1/16" 15M CTH-P-DBLHPS Tubing Head

DEVON ENERGY CORPORATIO

DRAWN	DLE	10MAY1
APPRV		Jess
		00

DRAWING NO. ODE0002309





County: Lea Wellbore: Permit Plan Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

	Design:	Permit Plan	n #1					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	283.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	283.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	283.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	283.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	283.00	500.00	0.00	0.00	0.00	0.00	
600.00 660.00	0.00	283.00 283.00	600.00 660.00	0.00	0.00	0.00	0.00	Rustler
700.00	0.00	283.00	700.00	0.00	0.00	0.00	0.00	Kustiei
800.00	0.00	283.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	283.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	283.00	1000.00	0.00	0.00	0.00	0.00	
1010.00	0.00	283.00	1010.00	0.00	0.00	0.00	0.00	Salt
1100.00	0.00	283.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	283.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	283.00	1300.00	0.00	0.00	0.00	0.00	
1400.00 1500.00	0.00	283.00 283.00	1400.00 1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	283.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	283.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	283.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	283.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	283.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	283.00	2099.98	0.39	-1.70	-0.33	2.00	
2200.00	4.00	283.00	2199.84	1.57	-6.80	-1.31	2.00	
2300.00	6.00	283.00	2299.45	3.53	-15.29	-2.95	2.00	
2400.00 2500.00	8.00 10.00	283.00 283.00	2398.70 2497.47	6.27 9.79	-27.17 -42.41	-5.24 -8.18	2.00 2.00	Hold Tangent
2600.00	10.00	283.00	2595.95	13.70	-59.33	-11.44	0.00	Tiola rangent
2700.00	10.00	283.00	2694.43	17.60	-76.25	-14.70	0.00	
2800.00	10.00	283.00	2792.91	21.51	-93.17	-17.97	0.00	
2900.00	10.00	283.00	2891.39	25.42	-110.09	-21.23	0.00	
3000.00	10.00	283.00	2989.87	29.32	-127.01	-24.49	0.00	
3100.00	10.00	283.00	3088.35	33.23	-143.93	-27.75	0.00	
3200.00	10.00	283.00	3186.83	37.13	-160.85	-31.02	0.00	
3300.00	10.00	283.00	3285.31	41.04	-177.77	-34.28	0.00	
3400.00 3500.00	10.00 10.00	283.00 283.00	3383.79 3482.27	44.95 48.85	-194.68 -211.60	-37.54 -40.80	0.00	
3600.00	10.00	283.00	3580.75	52.76	-211.00	-44.07	0.00	
3700.00	10.00	283.00	3679.23	56.66	-245.44	-47.33	0.00	
3800.00	10.00	283.00	3777.72	60.57	-262.36	-50.59	0.00	
3900.00	10.00	283.00	3876.20	64.48	-279.28	-53.86	0.00	
4000.00	10.00	283.00	3974.68	68.38	-296.20	-57.12	0.00	
4100.00	10.00	283.00	4073.16	72.29	-313.12	-60.38	0.00	
4200.00	10.00	283.00	4171.64	76.20	-330.04	-63.64	0.00	
4300.00 4400.00	10.00 10.00	283.00 283.00	4270.12	80.10	-346.96 -363.88	-66.91	0.00	
4431.88	10.00	283.00	4368.60 4400.00	84.01 85.25	-369.28	-70.17 -71.21	0.00	Base of Salt, Delaware
4500.00	10.00	283.00	4467.08	87.91	-380.80	-73.43	0.00	Sase of Sang Delaware
4600.00	10.00	283.00	4565.56	91.82	-397.72	-76.69	0.00	
4700.00	10.00	283.00	4664.04	95.73	-414.64	-79.96	0.00	
4800.00	10.00	283.00	4762.52	99.63	-431.56	-83.22	0.00	
4900.00	10.00	283.00	4861.00	103.54	-448.48	-86.48	0.00	
5000.00	10.00	283.00	4959.48	107.44	-465.40	-89.74	0.00	
5100.00	10.00	283.00	5057.97	111.35	-482.32 400.34	-93.01	0.00	
5200.00 5300.00	10.00 10.00	283.00 283.00	5156.45 5254.93	115.26 119.16	-499.24 -516.16	-96.27 -99.53	0.00	
5400.00	10.00	283.00	5353.41	123.07	-533.08	-102.80	0.00	
5406.69	10.00	283.00	5360.00	123.33	-534.21	-103.01	0.00	Cherry Canyon
5500.00	10.00	283.00	5451.89	126.98	-550.00	-106.06	0.00	. ,
5600.00	10.00	283.00	5550.37	130.88	-566.92	-109.32	0.00	
5700.00	10.00	283.00	5648.85	134.79	-583.84	-112.58	0.00	
5800.00	10.00	283.00	5747.33	138.69	-600.76	-115.85	0.00	
5900.00	10.00	283.00	5845.81	142.60	-617.68	-119.11	0.00	Donata Markad
5900.68	10.00	283.00	5846.48	142.63	-617.79	-119.13	0.00	Drop to Vertical
6000.00 6100.00	8.01 6.01	283.00 283.00	5944.57 6043.82	146.13 148.87	-632.94 -644.84	-122.06 -124.35	2.00 2.00	
6200.00	4.01	283.00	6143.43	150.84	-653.36	-124.33	2.00	
6300.00	2.01	283.00	6243.29	152.02	-658.48	-126.98	2.00	
6400.00	0.01	283.00	6343.27	152.42	-660.20	-127.31	2.00	



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						Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	6
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6400.68	0.00	283.00	6343.95	152.42	-660.20	-127.31	2.00	Hold Vertical
6500.00	0.00	179.75	6443.27	152.42	-660.20	-127.31	0.00	
6600.00	0.00	179.75	6543.27	152.42	-660.20	-127.31	0.00	
6700.00	0.00	179.75	6643.27	152.42	-660.20	-127.31	0.00	
6736.73	0.00	179.75	6680.00	152.42	-660.20	-127.31	0.00	Brushy Canyon
6800.00	0.00	179.75	6743.27	152.42	-660.20	-127.31	0.00	
6900.00	0.00	179.75	6843.27	152.42	-660.20	-127.31	0.00	
7000.00	0.00	179.75	6943.27	152.42	-660.20	-127.31	0.00	
7100.00	0.00	179.75	7043.27	152.42	-660.20	-127.31	0.00	
7200.00	0.00	179.75	7143.27	152.42	-660.20	-127.31	0.00	
7300.00	0.00	179.75	7243.27	152.42	-660.20	-127.31	0.00	
7400.00	0.00	179.75	7343.27	152.42	-660.20	-127.31	0.00	
7500.00	0.00	179.75	7443.27	152.42	-660.20	-127.31	0.00	
7600.00	0.00	179.75	7543.27	152.42	-660.20	-127.31	0.00	
7700.00	0.00	179.75	7643.27	152.42	-660.20	-127.31	0.00	
7800.00	0.00	179.75	7743.27	152.42	-660.20	-127.31	0.00	
7900.00	0.00	179.75	7843.27	152.42	-660.20	-127.31	0.00	
8000.00	0.00	179.75	7943.27	152.42	-660.20	-127.31	0.00	
8100.00	0.00	179.75	8043.27	152.42	-660.20	-127.31	0.00	
8200.00	0.00	179.75	8143.27	152.42	-660.20	-127.31	0.00	
8300.00	0.00	179.75	8243.27	152.42	-660.20	-127.31	0.00	
8346.73	0.00	179.75	8290.00	152.42	-660.20	-127.31	0.00	1st Bone Spring Lime
8400.00	0.00	179.75	8343.27	152.42	-660.20	-127.31	0.00	13t bone spring time
8500.00		179.75		152.42		-127.31	0.00	
8600.00	0.00	179.75	8443.27 8543.27	152.42	-660.20 -660.20	-127.31	0.00	
8700.00	0.00	179.75	8643.27	152.42	-660.20	-127.31	0.00	
		179.75						
8800.00 8900.00	0.00	179.75	8743.27	152.42 152.42	-660.20	-127.31	0.00	
	0.00		8843.27		-660.20	-127.31 -127.31	0.00	
9000.00	0.00	179.75	8943.27	152.42	-660.20	-127.31	0.00	
9100.00	0.00	179.75	9043.27	152.42	-660.20		0.00	
9200.00	0.00	179.75	9143.27	152.42	-660.20	-127.31	0.00	
9300.00	0.00	179.75	9243.27	152.42	-660.20	-127.31	0.00	
9356.73	0.00	179.75	9300.00	152.42	-660.20	-127.31	0.00	Bone Spring 1st
9400.00	0.00	179.75	9343.27	152.42	-660.20	-127.31	0.00	
9500.00	0.00	179.75	9443.27	152.42	-660.20	-127.31	0.00	
9600.00	0.00	179.75	9543.27	152.42	-660.20	-127.31	0.00	
9700.00	0.00	179.75	9643.27	152.42	-660.20	-127.31	0.00	
9800.00	0.00	179.75	9743.27	152.42	-660.20	-127.31	0.00	
9900.00	0.00	179.75	9843.27	152.42	-660.20	-127.31	0.00	
9976.73	0.00	179.75	9920.00	152.42	-660.20	-127.31	0.00	Bone Spring 2nd
10000.00	0.00	179.75	9943.27	152.42	-660.20	-127.31	0.00	
10100.00	0.00	179.75	10043.27	152.42	-660.20	-127.31	0.00	
10200.00	0.00	179.75	10143.27	152.42	-660.20	-127.31	0.00	
10300.00	0.00	179.75	10243.27	152.42	-660.20	-127.31	0.00	
10400.00	0.00	179.75	10343.27	152.42	-660.20	-127.31	0.00	
10496.73	0.00	179.75	10440.00	152.42	-660.20	-127.31	0.00	3rd Bone Spring Lime
10500.00	0.00	179.75	10443.27	152.42	-660.20	-127.31	0.00	
10600.00	0.00	179.75	10543.27	152.42	-660.20	-127.31	0.00	
10700.00	0.00	179.75	10643.27	152.42	-660.20	-127.31	0.00	
10800.00	0.00	179.75	10743.27	152.42	-660.20	-127.31	0.00	
10900.00	0.00	179.75	10843.27	152.42	-660.20	-127.31	0.00	
11000.00	0.00	179.75	10943.27	152.42	-660.20	-127.31	0.00	
11100.00	0.00	179.75	11043.27	152.42	-660.20	-127.31	0.00	
11200.00	0.00	179.75	11143.27	152.42	-660.20	-127.31	0.00	
11271.73	0.00	179.75	11215.00	152.42	-660.20	-127.31	0.00	Bone Spring 3rd
11300.00	0.00	179.75	11243.27	152.42	-660.20	-127.31	0.00	
11400.00	0.00	179.75	11343.27	152.42	-660.20	-127.31	0.00	
11473.78	0.00	179.75	11417.05	152.42	-660.20	-127.31	0.00	KOP
11500.00	2.62	179.75	11443.26	151.82	-660.20	-126.71	10.00	
11600.00	12.62	179.75	11542.25	138.57	-660.14	-113.48	10.00	
11700.00	22.62	179.75	11637.43	108.34	-660.01	-83.27	10.00	
11769.72	29.59	179.75	11700.00	77.68	-659.88	-52.63	10.00	Wolfcamp / Point of Penetration
11800.00	32.62	179.75	11725.92	62.03	-659.81	-37.00	10.00	
11900.00	42.62	179.75	11805.03	1.07	-659.54	23.91	10.00	
12000.00	52.62	179.75	11872.35	-72.71	-659.22	97.62	10.00	
12100.00	62.62	179.75	11925.83	-157.06	-658.85	181.89	10.00	
12200.00	72.62	179.75	11963.85	-249.41	-658.45	274.16	10.00	
12300.00	82.62	179.75	11985.26	-346.96	-658.02	371.63	10.00	
12375.66	90.19	179.75	11990.00	-422.42	-657.69	447.02	10.00	Landing Point
12400.00	90.19	179.75	11989.92	-446.75	-657.59	471.33	0.00	



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#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
12500.00	90.19	179.75	11989.59	-546.75	-657.15	571.24	0.00	
12600.00	90.19	179.75	11989.26	-646.75	-656.71	671.15	0.00	
12700.00	90.19	179.75	11988.93	-746.75	-656.28	771.06	0.00	
12800.00	90.19	179.75	11988.60	-846.75	-655.84	870.97	0.00	
12900.00	90.19	179.75	11988.27	-946.75	-655.40	970.88	0.00	
13000.00	90.19	179.75	11987.95	-1046.75	-654.97	1070.80	0.00	
13100.00	90.19	179.75	11987.62	-1146.74	-654.53	1170.71	0.00	
13200.00	90.19	179.75	11987.29	-1246.74	-654.09	1270.62	0.00	
13300.00	90.19	179.75	11986.96	-1346.74	-653.66	1370.53	0.00	
13400.00	90.19	179.75	11986.63	-1446.74	-653.22	1470.44	0.00	
13500.00 13600.00	90.19 90.19	179.75 179.75	11986.30 11985.97	-1546.74 -1646.74	-652.78 -652.35	1570.35 1670.26	0.00	
13700.00	90.19	179.75	11985.64	-1746.73	-651.91	1770.17	0.00	
13800.00	90.19	179.75	11985.31	-1846.73	-651.47	1870.08	0.00	
13900.00	90.19	179.75	11984.98	-1946.73	-651.04	1969.99	0.00	
14000.00	90.19	179.75	11984.65	-2046.73	-650.60	2069.90	0.00	
14100.00	90.19	179.75	11984.33	-2146.73	-650.16	2169.81	0.00	
14200.00	90.19	179.75	11984.00	-2246.73	-649.73	2269.72	0.00	
14300.00	90.19	179.75	11983.67	-2346.73	-649.29	2369.63	0.00	
14400.00	90.19	179.75	11983.34	-2446.72	-648.86	2469.54	0.00	
14500.00	90.19	179.75	11983.01	-2546.72	-648.42	2569.45	0.00	
14600.00	90.19	179.75	11982.68	-2646.72 -2746.72	-647.98	2669.36 2769.27	0.00	
14700.00 14800.00	90.19 90.19	179.75 179.75	11982.35 11982.02	-2746.72 -2846.72	-647.55 -647.11	2769.27 2869.18	0.00	
14900.00	90.19	179.75	11982.02	-2946.72	-646.67	2969.09	0.00	
15000.00	90.19	179.75	11981.36	-3046.72	-646.24	3069.00	0.00	
15100.00	90.19	179.75	11981.03	-3146.71	-645.80	3168.91	0.00	
15200.00	90.19	179.75	11980.70	-3246.71	-645.36	3268.82	0.00	
15300.00	90.19	179.75	11980.38	-3346.71	-644.93	3368.73	0.00	
15400.00	90.19	179.75	11980.05	-3446.71	-644.49	3468.64	0.00	
15500.00	90.19	179.75	11979.72	-3546.71	-644.05	3568.55	0.00	
15600.00 15700.00	90.19	179.75	11979.39	-3646.71	-643.62	3668.46	0.00	
15800.00	90.19 90.19	179.75 179.75	11979.06 11978.73	-3746.71 -3846.70	-643.18 -642.74	3768.37 3868.28	0.00	
15900.00	90.19	179.75	11978.40	-3946.70	-642.31	3968.19	0.00	
16000.00	90.19	179.75	11978.07	-4046.70	-641.87	4068.10	0.00	
16100.00	90.19	179.75	11977.74	-4146.70	-641.43	4168.01	0.00	
16200.00	90.19	179.75	11977.41	-4246.70	-641.00	4267.92	0.00	
16300.00	90.19	179.75	11977.08	-4346.70	-640.56	4367.83	0.00	
16400.00	90.19	179.75	11976.76	-4446.69	-640.12	4467.74	0.00	
16500.00	90.19	179.75	11976.43	-4546.69	-639.69	4567.65	0.00	
16600.00	90.19	179.75	11976.10	-4646.69 -4746.69	-639.25	4667.56	0.00	
16700.00 16800.00	90.19 90.19	179.75 179.75	11975.77 11975.44	-4746.69 -4846.69	-638.81 -638.38	4767.47 4867.39	0.00	
16900.00	90.19	179.75	11975.11	-4946.69	-637.94	4967.30	0.00	
17000.00	90.19	179.75	11974.78	-5046.69	-637.50	5067.21	0.00	
17100.00	90.19	179.75	11974.45	-5146.68	-637.07	5167.12	0.00	
17200.00	90.19	179.75	11974.12	-5246.68	-636.63	5267.03	0.00	
17300.00	90.19	179.75	11973.79	-5346.68	-636.19	5366.94	0.00	
17400.00	90.19	179.75	11973.46		-635.76	5466.85	0.00	
17500.00	90.19	179.75	11973.14	-5546.68	-635.32	5566.76	0.00	
17600.00	90.19	179.75 179.75	11972.81		-634.88 634.45	5666.67 5766.58	0.00	
17700.00 17800.00	90.19 90.19	179.75	11972.48 11972.15	-5746.68 -5846.67	-634.45 -634.01	5766.58 5866.49	0.00	
17900.00	90.19	179.75	11972.13	-5946.67	-633.57	5966.40	0.00	
18000.00	90.19	179.75		-6046.67	-633.14	6066.31	0.00	
18100.00	90.19	179.75	11971.16		-632.70	6166.22	0.00	
18200.00	90.19	179.75	11970.83	-6246.67	-632.26	6266.13	0.00	
18300.00	90.19	179.75			-631.83	6366.04	0.00	
18400.00	90.19	179.75	11970.17		-631.39	6465.95	0.00	
18500.00	90.19	179.75	11969.84	-6546.66	-630.95	6565.86	0.00	
18600.00 18700.00	90.19 90.19	179.75 179.75	11969.52 11969.19	-6646.66	-630.52 -630.08	6665.77	0.00	
18700.00	90.19	179.75	11969.19	-6746.66 -6846.66	-630.08 -629.64	6765.68 6865.59	0.00	
18900.00	90.19	179.75	11968.53	-6946.66	-629.21	6965.50	0.00	
19000.00	90.19	179.75	11968.20	-7046.66	-628.77	7065.41	0.00	
19100.00	90.19	179.75	11967.87	-7146.65	-628.34	7165.32	0.00	
19200.00	90.19	179.75	11967.54	-7246.65	-627.90	7265.23	0.00	
19300.00	90.19	179.75	11967.21	-7346.65	-627.46	7365.14	0.00	
19400.00	90.19	179.75	11966.88	-/446.65	-627.03	7465.05	0.00	



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	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19500.00	90.19	179.75	11966.55	-7546.65	-626.59	7564.96	0.00	
19600.00	90.19	179.75	11966.22	-7646.65	-626.15	7664.87	0.00	
19700.00	90.19	179.75	11965.90	-7746.65	-625.72	7764.78	0.00	
19800.00	90.19	179.75	11965.57	-7846.64	-625.28	7864.69	0.00	
19900.00	90.19	179.75	11965.24	-7946.64	-624.84	7964.60	0.00	
20000.00	90.19	179.75	11964.91	-8046.64	-624.41	8064.51	0.00	
20100.00 20200.00	90.19 90.19	179.75 179.75	11964.58 11964.25	-8146.64 -8246.64	-623.97	8164.42 8264.33	0.00	
20300.00	90.19	179.75	11964.23	-8346.64	-623.53 -623.10	8364.24	0.00	
20400.00	90.19	179.75	11963.59	-8446.63	-622.66	8464.15	0.00	
20500.00	90.19	179.75	11963.26	-8546.63	-622.22	8564.06	0.00	
20600.00	90.19	179.75	11962.93	-8646.63	-621.79	8663.97	0.00	
20700.00	90.19	179.75	11962.60	-8746.63	-621.35	8763.89	0.00	
20800.00	90.19	179.75	11962.27	-8846.63	-620.91	8863.80	0.00	
20900.00	90.19	179.75	11961.95	-8946.63	-620.48	8963.71	0.00	
21000.00	90.19	179.75	11961.62	-9046.63	-620.04	9063.62	0.00	
21100.00	90.19	179.75	11961.29	-9146.62	-619.60	9163.53	0.00	
21200.00 21300.00	90.19 90.19	179.75 179.75	11960.96 11960.63	-9246.62 -9346.62	-619.17 -618.73	9263.44 9363.35	0.00	
21400.00	90.19	179.75	11960.30	-9446.62	-618.29	9463.26	0.00	
21500.00	90.19	179.75	11959.97	-9546.62	-617.86	9563.17	0.00	
21600.00	90.19	179.75	11959.64	-9646.62	-617.42	9663.08	0.00	
21700.00	90.19	179.75	11959.31	-9746.62	-616.98	9762.99	0.00	
21800.00	90.19	179.75	11958.98	-9846.61	-616.55	9862.90	0.00	
21900.00	90.19	179.75	11958.65	-9946.61	-616.11	9962.81	0.00	
22000.00	90.19	179.75		-10046.61	-615.67	10062.72	0.00	
22100.00	90.19	179.75		-10146.61	-615.24	10162.63	0.00	
22200.00 22300.00	90.19 90.19	179.75 179.75		-10246.61 -10346.61	-614.80 -614.36	10262.54 10362.45	0.00	
22400.00	90.19	179.75		-10446.60	-613.93	10462.36	0.00	
22500.00	90.19	179.75		-10546.60	-613.49	10562.27	0.00	
22600.00	90.19	179.75		-10646.60	-613.05	10662.18	0.00	
22700.00	90.19	179.75	11956.02	-10746.60	-612.62	10762.09	0.00	
22800.00	90.19	179.75	11955.69	-10846.60	-612.18	10862.00	0.00	
22900.00	90.19	179.75		-10946.60	-611.74	10961.91	0.00	
23000.00	90.19	179.75		-11046.60	-611.31	11061.82	0.00	
23100.00	90.19	179.75		-11146.59	-610.87	11161.73	0.00	
23200.00 23300.00	90.19 90.19	179.75 179.75		-11246.59 -11346.59	-610.43 -610.00	11261.64 11361.55	0.00	
23400.00	90.19	179.75		-11346.59	-609.56	11461.46	0.00	
23500.00	90.19	179.75		-11546.59	-609.13	11561.37	0.00	
23600.00	90.19	179.75		-11646.59	-608.69	11661.28	0.00	
23700.00	90.19	179.75	11952.73	-11746.59	-608.25	11761.19	0.00	
23800.00	90.19	179.75	11952.40	-11846.58	-607.82	11861.10	0.00	
23900.00	90.19	179.75	11952.07	-11946.58	-607.38	11961.01	0.00	
24000.00	90.19	179.75		-12046.58	-606.94	12060.92	0.00	
24100.00	90.19	179.75		-12146.58	-606.51	12160.83	0.00	
24200.00	90.19	179.75 179.75		-12246.58 -12346.58	-606.07 -605.63	12260.74	0.00	
24300.00 24400.00	90.19 90.19	179.75 179.75		-12346.58 -12446.58	-605.63 -605.20	12360.65 12460.56	0.00	
24500.00	90.19	179.75		-12546.57	-604.76	12560.48	0.00	
24600.00	90.19	179.75		-12646.57	-604.32	12660.39	0.00	
24700.00	90.19	179.75		-12746.57	-603.89	12760.30	0.00	
24800.00	90.19	179.75		-12846.57	-603.45	12860.21	0.00	
24900.00	90.19	179.75		-12946.57	-603.01	12960.12	0.00	
25000.00	90.19	179.75		-13046.57	-602.58	13060.03	0.00	
25100.00	90.19	179.75		-13146.56	-602.14	13159.94	0.00	
25200.00 25300.00	90.19 90.19	179.75 179.75		-13246.56 -13346.56	-601.70 -601.27	13259.85 13359.76	0.00	
25400.00	90.19	179.75		-13446.56	-600.83	13459.67	0.00	
25500.00	90.19	179.75		-13546.56	-600.39	13559.58	0.00	
25600.00	90.19	179.75		-13646.56	-599.96	13659.49	0.00	
25700.00	90.19	179.75		-13746.56	-599.52	13759.40	0.00	
25800.00	90.19	179.75	11945.82	-13846.55	-599.08	13859.31	0.00	
25900.00	90.19	179.75		-13946.55	-598.65	13959.22	0.00	
26000.00	90.19	179.75		-14046.55	-598.21	14059.13	0.00	
26100.00	90.19	179.75		-14146.55	-597.77	14159.04	0.00	
26200.00	90.19	179.75		-14246.55	-597.34	14258.95	0.00	
26300.00 26400.00	90.19 90.19	179.75 179.75		-14346.55 -14446.55	-596.90 -596.46	14358.86 14458.77	0.00	
20-100.00	50.15	113.13	115-15.04	1-1-10.55	330.40	14430.11	0.00	

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
26500.00	90.19	179.75	11943.52	-14546.54	-596.03	14558.68	0.00	
26600.00	90.19	179.75	11943.19	-14646.54	-595.59	14658.59	0.00	
26700.00	90.19	179.75	11942.86	-14746.54	-595.15	14758.50	0.00	
26800.00	90.19	179.75	11942.53	-14846.54	-594.72	14858.41	0.00	
26900.00	90.19	179.75	11942.20	-14946.54	-594.28	14958.32	0.00	
27000.00	90.19	179.75	11941.87	-15046.54	-593.84	15058.23	0.00	
27100.00	90.19	179.75	11941.54	-15146.53	-593.41	15158.14	0.00	
27200.00	90.19	179.75	11941.21	-15246.53	-592.97	15258.05	0.00	
27300.00	90.19	179.75	11940.88	-15346.53	-592.53	15357.96	0.00	
27400.00	90.19	179.75	11940.55	-15446.53	-592.10	15457.87	0.00	
27482.22	90.19	179.75	11940.28	-15528.75	-591.74	15540.02	0.00	exit
27500.00	90.19	179.75	11940.22	-15546.53	-591.66	15557.78	0.00	
27562.22	90.19	179.75	11940.00	-15608.75	-591.43	15619.95	0.00	BHL

Issued on: 16 Sep. 2022 by Logan Van Gorp



Connection Data Sheet

HIGHER TORQUE VERSION

OD	Weight (lb/ft)	Wall Th.	Grade	Alt. Drift:	Connection
8 5/8 in.	Nominal: 32.00	0.352 in.	P110EC	7.875 in.	VAM® SPRINT-FJ
	Plain End: 31.13				

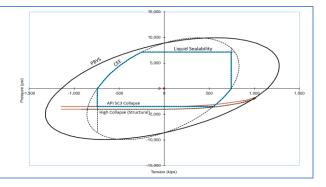
PIPE PROPERTIES		
Nominal OD	8.625	in.
Nominal ID	7.921	in.
Nominal Cross Section Area	9.149	sqin.
Grade Type	Hig	jh Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

CONNECTION PROP	ERTIES	
Connection Type	Semi-Premium Int	egral Flush
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	5.978	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	744	klb
Compression Resistance	744	klb
Max. Internal Pressure	7,150	psi
Structural Collapse Resistance	4,000	psi
Max. Structural Bending	41	°/100ft
Max. Bending with Sealability	10	°/100ft

23,000	ft.lb
25,500	ft.lb
28,000	ft.lb
48,000	ft.lb
	25,500 28,000

VAM® SPRINT-FJ is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension capacity are required for intermediate casing strings.



canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com Do you need help on this product? - Remember no one knows VAM[®] like VAM[®]

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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance



^{* 87.5%} RBW

COTTON DRAW UNIT 613H

1. Geologic Formations

TVD of target	11940	Pilot hole depth	N/A
MD at TD:	27562	Deepest expected fresh water	

Basin

Dasin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	660		
Salt	1010		
Base of Salt	4400		
Delaware	4400		
Cherry Canyon	5360		
Brushy Canyon	6680		
1st Bone Spring Lime	8290		
Bone Spring 1st	9300		
Bone Spring 2nd	9920		
3rd Bone Spring Lime	10440		
Bone Spring 3rd	11215		
Wolfcamp	11700		

^{*}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)
14 3/4	10 3/4	45 1/2	J-55	ВТС	0	685	0	685
9 7/8	8 5/8	32	P110EC	Sprint FJ	0	11373	0	11373
7 7/8	5 1/2	20	P110EC	DWC / C-IS+	0	27562	0	11940

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

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. Operator will run one CBL per well pad.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	421	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	475 Surf 13.0 2.3		2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives	
Int 1	538	6736	13.2	1.44	Tail: Class H / C + additives
Droduction	117	9474	9	3.27	Lead: Class H /C + additives
Production	2129	11474	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	ype	✓	Tested to:		
			Anı	nular	X	50% of rated working pressure		
Int 1	13-5/8"	5M		d Ram	X			
Int I	13-3/0	3111	Pipe	Ram		5M		
			Doub	le Ram	X	J1V1		
			Other*					
	13-5/8"	13-5/8"		Annul	ar (5M)	X	50% of rated working pressure	
Don Lordon			13-5/8" 5M	2.77/011 77.47	Bline	d Ram	X	
Production				Pipe	Ram		5M	
			Doub	le Ram	X	SIVI		
			Other*					
			Annul	ar (5M)				
			Bline	d Ram				
			Pipe Ram]		
			Double Ram]		
			Other*					
N A variance is requested for	the use of a	diverter or	n the surface	casing. See	attached for s	chematic.		
Y A variance is requested to a	A variance is requested to run a 5 M annular on a 10M system							

5. Mud Program (Three String Design)

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, C	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 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	Specfiy what type and where?
BH pressure at deepest TVD	6519
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.

measured va	alues and formations will be provided to the BLW.
N	H2S is present
Y	H2S plan attached.

COTTON DRAW UNIT 613H

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 (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.

Attachments	1
X	Directional Plan
	Other, describe



<u>10-3/4"</u> <u>45.50#</u> <u>0.400"</u> <u>J-55</u>

in.

in.

10.750

0.400

Dimensions (Nominal)

Outside Diameter

Wall

•••	0.400	
Inside Diameter	9.950	in.
Drift	9.875	in.
Weight, T&C	45.500	lbs/ft
Weight, PE	44.260	lbs/ft
Internal Yield Pressure at Minimum Yield		
Collapse	2090	psi
Internal Yields Pressure		
PE	3580	psi
STC	3580	psi
ВТС	3580	psi
Yield Strength, Pipe Body	715	1000 lbs
Joint Strength, STC		
STC	493	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

796

1000 lbs

BTC

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

1,913.48

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

X AMENDED REPORT

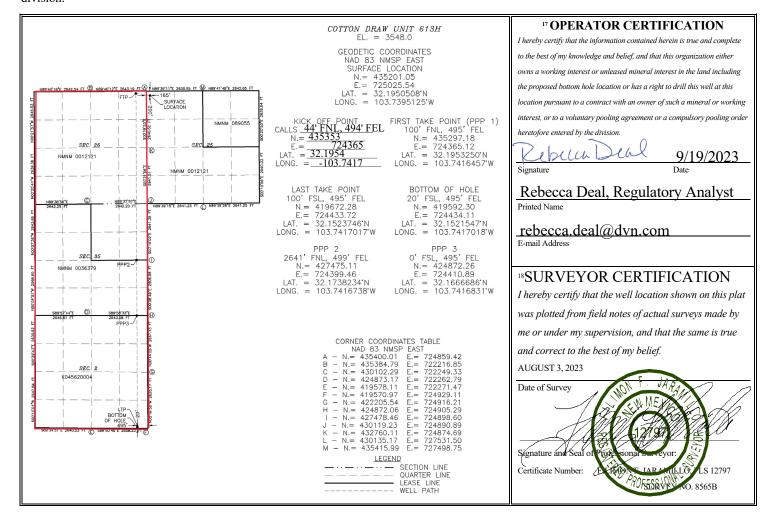
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code			
30-015-4	30-015-49134		PURPLE SAGE;WOLFCA	MP	
⁴ Property Code		⁵ Pr	roperty Name	⁶ Well Number	
33184		COTTO	613H		
⁷ OGRID No.		8 Operator Name			
6137		DEVON ENERGY PRO	ODUCTION COMPANY, L.P.	3548.0	

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	24 S	31 E		200	NORTH	165	WEST	EDDY
	Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	25 S	31 E		20	SOUTH	495	EAST	EDDY
12 Dedicated Acre	s 13 Joint	or Infill 14	Consolidation	n Code			15 Order No.		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Intent	x	As Dril	led											
API#														
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.							perty N			JNIT				Well Number 613H
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet			n E/W	County	
Latitu	26 Ide	24S	31E		Longitu	ıde	FNL			494	F	EL	LEA NAD	
Latita		2.1954			Longita		103.7417						147.15	83
	ake Poin							1/6						
UL A	Section 26	Township 24S	Range 31E	Lot	Feet 100		From N NOR1		Feet 495		EAS	n E/W ST	County EDDY	
Latitu 32.1	de 95325	0			Longitu 103.7	gitude NAD 3.7416457 83								
Last T	ake Poin	t (LTP)												
UL P	Section 2	Township 25S	Range 31E	Lot	Feet 100		m N/S UTH	Feet 495		From I		Count		
132.1	de 52374	6			Longitu 103.7	tude NAD .7417017 83								
ls this	well the	defining v	vell for th	e Hori:	zontal Sp	pacing	g Unit?		N					
s this	well an	infill well?		Υ										
	l is yes p ng Unit.	lease provi	ide API if a	availak	ole, Oper	rator	Name	and v	vell nu	ımber	for [Definir	ng well fo	or Horizontal
API#]											
Ope	rator Nar	me:				Prop	perty N	ame:						Well Number
DEVC	ON ENER	GY PRODU	CTION CC	MPAN	NY, L.P.	(сотто	N DR	AW UI	NIT				607H
														K7 06/20/201

KZ 06/29/2018



Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 17.00 Plain End: 16.89	0.304	VST P110 EC	4.767	87.5	DWC/C-IS PLUS

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.892	in.
Nominal Area	4.962	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	620	klb
Ultimate Strength	670	klb
Min. Internal Yield	12,090	psi
High Collapse	8,840	psi

Connection Type	Semi-Premium T&	ιC
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.892	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	4.962	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	620	klb
Parting Load	670	klb
Compression Rating	620	klb
Min. Internal Yield	12,090	psi
High Collapse	8,840	psi
Maximum Uniaxial Bend Rating	104.2	°/100 ft
Ref String Length w 1.4 Design Factor	26,050	ft

FIELD TORQUE VALUES		
Min. Make-up Torque	13,400	ft.lbs
Opti. Make-up Torque	14,350	ft.lbs
Max. Make-up Torque	15,300	ft.lbs
Min. Shoulder Torque	1,340	ft.lbs
Max. Shoulder Torque	10,720	ft.lbs
Max. Delta Turn	0.200	Turns
Max Operational Torque	17,200	ft.lbs
Maximum Torsional Value (MTV)	18,920	ft.lbs

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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05/23/2023 4:15 PM



VAM USA 2107 CityWest Boulevard Suite 1300 Houston, TX 77042 Phone: 713-479-3200

Fax: 713-479-3234

VAM USA Sales E-mail: VAMUSAsales@vam-usa.com Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

- DWC connections are available with a seal ring (SR) option.
- All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- The torque values listed are recommended. The actual torque required may be affected by field 8. conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each

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05/23/2023 4:15 PM



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

Sundry Print Reports

Well Name: COTTON DRAW 25-36 Well Location: T24S / R31E / SEC 25 / County or Parish/State:

FED STATE CO NWNW /

Well Number: 613H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM012121 Unit or CA Name: COTTON DRAW Unit or CA Number:

UNIT NMNM70928X

US Well Number: 3001549134 Well Status: Approved Application for Operator: DEVON ENERGY

Permit to Drill PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2752621

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/21/2023 Time Sundry Submitted: 12:37

Date proposed operation will begin: 09/21/2023

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: Name Change from Cotton Draw 25-36 Fed State Com 613H to Cotton Draw Unit 613H BHL change from 2620 FNL & 330 FWL, 35-24S-31E to 20 FSL & 495 FEL, 2-25S-31E. Dedicated acreage revision. New leases have been added since approved APD and notification has been given. TVD/MD change from 12,151'/19,835' to 11,940'/27,562' Casing program change: Surface, Intermediate, & Production casing changes. Cement volume changes to accommodate casing change. Please see attached revised C-102, spec sheets, and drilling & directional plans.

NOI Attachments

Procedure Description

MB_Wellhd_10M_13.375_8.625_5.5_20230921123453.PDF

COTTON_DRAW_UNIT_613H_Directional_Plan_09_15_23_20230921123446.pdf

8.625in_32lb_P110EC_SPRINT_FJ_20230921123445.pdf

COTTON_DRAW_UNIT_613H_20230921123445.pdf

10.750_45.5_J55_20230921123445.pdf

COTTON_DRAW_UNIT_613H_C_102_NAME_BHL_NOI_20230921123446.pdf

5.5in_17lb_P110EC_DWC_C_IS_PLUS_20230921123445.pdf

well Name: COTTON DRAW 25-36

FED STATE CO

Well Location: T24S / R31E / SEC 25 /

NWNW /

County or Parish/State: Pro

Well Number: 613H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM012121

US Well Number: 3001549134

Unit or CA Name: COTTON DRAW UNIT

. \ \ /

Unit or CA Number:

C

NMNM70928X

Well Status: Approved Application for

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Permit to Drill

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: SEP 21, 2023 12:35 PM

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:

Citv:

State:

Zip:

Phone:

Email address:

Page 2 of 2

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP

LEASE NO.: NMNM012121

LOCATION: Section 25, T.24 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: | Cotton Draw Unit 613H

SURFACE HOLE FOOTAGE: 200'/N & 165'/W **BOTTOM HOLE FOOTAGE** 20'/S & 495'/E

ATS/API ID: 3001549134 APD ID: 10400065593 Sundry ID: 2752621

COA

H2S	Yes ▼		
Potash	None		
Cave/Karst Potential	Low		
Cave/Karst	☐ Critical		
Potential			
Variance	None None	☑ Flex Hose	C Other
Wellhead	Conventional and Multibov	/I <u> </u>	
Other	□4 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	□ СОМ	✓ Unit
Requirements	Disposal/Injection		
Special	☐ Batch Sundry		
Requirements			
Special	☐ Break Testing	□ Offline	☐ Casing
Requirements	_	Cementing	Clearance
Variance			

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Cotton Draw** pool. 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 775 feet (a minimum of 70 feet (Eddy 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 6680' (538 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 475 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.

- 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.
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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.
- 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 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 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 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 OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

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)

(575) 361-2822

- ☑ Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM_NM_CFO_DrillingNotifications@BLM.GOV
- 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 intergrity 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 intergrity 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 9/29/2023

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR DUBEAU OF LAND MANAGEMENT

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

BUREAU OF LAND MANAGEMENT		5. Lease Serial No. NMNM012121		
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.		6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well		COTTON DRAW UNIT/NMNM70928X		
Oil Well Gas Well Other		8. Well Name and No. COTTON DRAW 25-36 FED STATE		
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP		9. API Well No. 3001549134		
3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY, 3b. Phone No. (include area code) (405) 235-3611		10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 25/T24S/R31E/NMP	11. Country or Parish, State EDDY/NM			
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	ICE, REPORT OR OTH	IER DATA	
TYPE OF SUBMISSION	TYPE OF AC	TION		
Notice of Intent Acidize Deep	pen Prod	luction (Start/Resume) amation	Water Shut-Off Well Integrity	
Subsequent Report	=	omplete porarily Abandon	Other	
Final Abandonment Notice Convert to Injection Plug	Back Wate	er Disposal		
completed. Final Abandonment Notices must be filed only after all requirements ready for final inspection.) Devon Energy Production Company L.P. respectfully requests the followance Change from Cotton Draw 25-36 Fed State Com 613H to Cotton BHL change from 2620 FNL & 330 FWL, 35-24S-31E to 20 FSL & 498 Dedicated acreage revision. New leases have been added since approved APD and notification has TVD/MD change from 12,151/19,835 to 11,940/27,562 Casing program change: Surface, Intermediate, & Production casing of Please see attached revised C-102, spec sheets, and drilling & directions.	owing changes to the appron Draw Unit 613H 5 FEL, 2-25S-31E. as been given. changes. Cement volume of	oved APD:		
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) REBECCA DEAL / Ph: (303) 299-1406	Regulatory Analyst Title			
Signature	Date	ate 09/21/2023		
THE SPACE FOR FED	ERAL OR STATE OF	ICE USE		
Approved by	Title	ı	Date	
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject leads which would entitle the applicant to conduct operations thereon.	nt or	1	Sant	
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for a any false, fictitious or fraudulent statements or representations as to any matter with		Ifully to make to any de	partment or agency of the United States	

(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

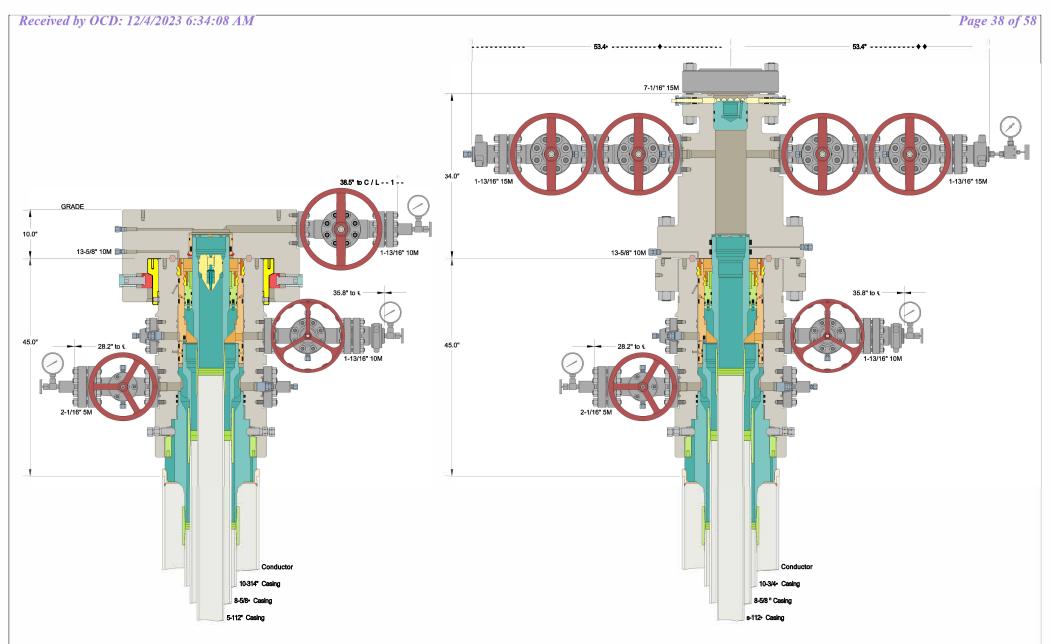
Location of Well

0. SHL: NWNW / 200 FNL / 165 FWL / TWSP: 24S / RANGE: 31E / SECTION: 25 / LAT: 32.1950508 / LONG: -103.7395125 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 25 / LAT: 32.1953259 / LONG: -103.7389793 (TVD: 11760 feet, MD: 11779 feet)

BHL: SWNW / 2620 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 36 / LAT: 32.1738842 / LONG: -103.7389941 (TVD: 12151 feet, MD: 19835 feet)

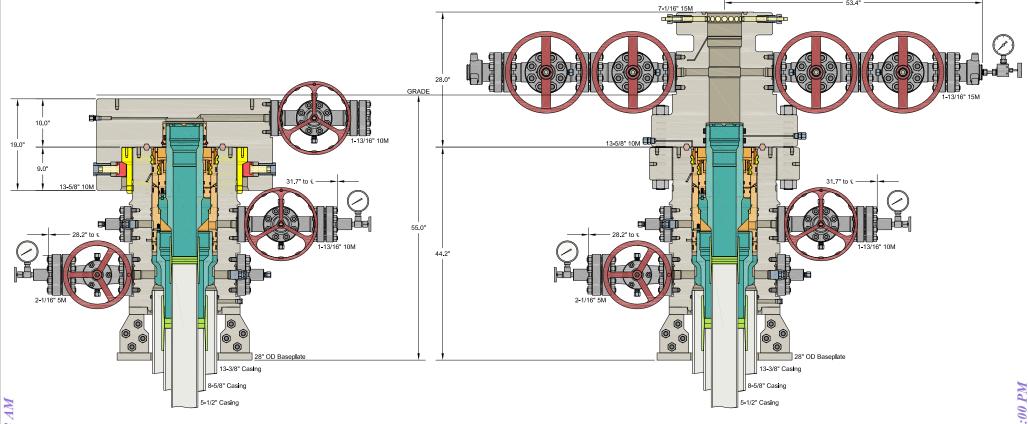




INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC DEVON ENERGY CORPORATION DELAWARE BASIN 10-3/4" x 8-5/8" x 5-1/2" 10M MBU-3T-CFL-R-DBLO Wellhead Sys. With 8-5/8" And 5-1/2" Mandrel Casing Hangers With 8-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head PRAWING NO. HBE0000595



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CACTUS WELLHEAD LLC

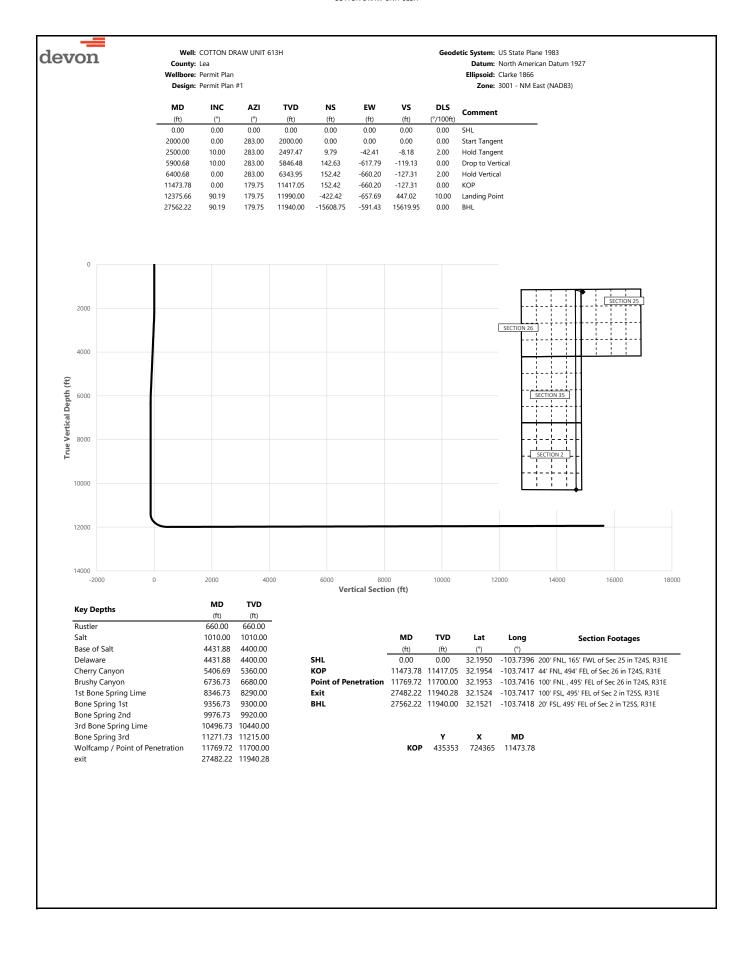
13-3/8" x 8-5/8" x 5-1/2" 5M MBU-3T Wellhead System With 8-5/8" & 5-1/2" Pin Down Rotating Mandrel Hangers And 13-5/8" 10M x 7-1/16" 15M CTH-P-DBLHPS Tubing Head

DEVON ENERGY CORPORATION

DRAWN DLE 10MAY18
APPRV

DRAWING NO.

ODE0002309





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	INC	AZI	TVD	NS	EW	vs	DLS	C	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL	
100.00	0.00	283.00	100.00	0.00	0.00	0.00	0.00		
200.00	0.00	283.00	200.00	0.00	0.00	0.00	0.00		
300.00 400.00	0.00	283.00 283.00	300.00 400.00	0.00	0.00	0.00	0.00		
500.00	0.00	283.00	500.00	0.00	0.00	0.00	0.00		
600.00	0.00	283.00	600.00	0.00	0.00	0.00	0.00		
660.00	0.00	283.00	660.00	0.00	0.00	0.00	0.00	Rustler	
700.00	0.00	283.00	700.00	0.00	0.00	0.00	0.00		
800.00	0.00	283.00	800.00	0.00	0.00	0.00	0.00		
900.00	0.00	283.00	900.00	0.00	0.00	0.00	0.00		
1000.00	0.00	283.00	1000.00	0.00	0.00	0.00	0.00		
1010.00	0.00	283.00	1010.00	0.00	0.00	0.00	0.00	Salt	
1100.00 1200.00	0.00	283.00 283.00	1100.00 1200.00	0.00	0.00	0.00	0.00		
1300.00	0.00	283.00	1300.00	0.00	0.00	0.00	0.00		
1400.00	0.00	283.00	1400.00	0.00	0.00	0.00	0.00		
1500.00	0.00	283.00	1500.00	0.00	0.00	0.00	0.00		
1600.00	0.00	283.00	1600.00	0.00	0.00	0.00	0.00		
1700.00	0.00	283.00	1700.00	0.00	0.00	0.00	0.00		
1800.00	0.00	283.00	1800.00	0.00	0.00	0.00	0.00		
1900.00	0.00	283.00	1900.00	0.00	0.00	0.00	0.00		
2000.00	0.00	283.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent	
2100.00	2.00	283.00	2099.98	0.39	-1.70	-0.33	2.00		
2200.00 2300.00	4.00 6.00	283.00 283.00	2199.84 2299.45	1.57 3.53	-6.80 -15.29	-1.31 -2.95	2.00 2.00		
2400.00	8.00	283.00	2398.70	6.27	-13.29	-2.95 -5.24	2.00		
2500.00	10.00	283.00	2497.47	9.79	-42.41	-8.18	2.00	Hold Tangent	
2600.00	10.00	283.00	2595.95	13.70	-59.33	-11.44	0.00		
2700.00	10.00	283.00	2694.43	17.60	-76.25	-14.70	0.00		
2800.00	10.00	283.00	2792.91	21.51	-93.17	-17.97	0.00		
2900.00	10.00	283.00	2891.39	25.42	-110.09	-21.23	0.00		
3000.00	10.00	283.00	2989.87	29.32	-127.01	-24.49	0.00		
3100.00	10.00	283.00	3088.35	33.23	-143.93	-27.75	0.00		
3200.00 3300.00	10.00 10.00	283.00 283.00	3186.83 3285.31	37.13 41.04	-160.85 -177.77	-31.02 -34.28	0.00		
3400.00	10.00	283.00	3383.79	44.95	-177.77	-34.20	0.00		
3500.00	10.00	283.00	3482.27	48.85	-211.60	-40.80	0.00		
3600.00	10.00	283.00	3580.75	52.76	-228.52	-44.07	0.00		
3700.00	10.00	283.00	3679.23	56.66	-245.44	-47.33	0.00		
3800.00	10.00	283.00	3777.72	60.57	-262.36	-50.59	0.00		
3900.00	10.00	283.00	3876.20	64.48	-279.28	-53.86	0.00		
4000.00	10.00	283.00	3974.68	68.38	-296.20	-57.12	0.00		
4100.00	10.00	283.00	4073.16	72.29	-313.12	-60.38	0.00		
4200.00 4300.00	10.00 10.00	283.00 283.00	4171.64 4270.12	76.20 80.10	-330.04 -346.96	-63.64 -66.91	0.00		
4400.00	10.00	283.00	4368.60	84.01	-363.88	-70.17	0.00		
4431.88	10.00	283.00	4400.00	85.25	-369.28	-71.21	0.00	Base of Salt, Delaware	
4500.00	10.00	283.00	4467.08	87.91	-380.80	-73.43	0.00		
4600.00	10.00	283.00	4565.56	91.82	-397.72	-76.69	0.00		
4700.00	10.00	283.00	4664.04	95.73	-414.64	-79.96	0.00		
4800.00	10.00	283.00	4762.52	99.63	-431.56	-83.22	0.00		
4900.00	10.00	283.00	4861.00	103.54	-448.48	-86.48	0.00		
5000.00 5100.00	10.00	283.00 283.00	4959.48 5057.97	107.44	-465.40 -482.32	-89.74 -93.01	0.00		
5100.00	10.00 10.00	283.00	5057.97	111.35 115.26	-482.32 -499.24	-93.01 -96.27	0.00		
5300.00	10.00	283.00	5254.93	119.16	-516.16	-99.53	0.00		
5400.00	10.00	283.00	5353.41	123.07	-533.08	-102.80	0.00		
5406.69	10.00	283.00	5360.00	123.33	-534.21	-103.01	0.00	Cherry Canyon	
5500.00	10.00	283.00	5451.89	126.98	-550.00	-106.06	0.00		
5600.00	10.00	283.00	5550.37	130.88	-566.92	-109.32	0.00		
5700.00	10.00	283.00	5648.85	134.79	-583.84	-112.58	0.00		
5800.00	10.00	283.00	5747.33	138.69	-600.76	-115.85	0.00		
5900.00 5900.68	10.00 10.00	283.00 283.00	5845.81 5846.48	142.60 142.63	-617.68 -617.79	-119.11 -119.13	0.00	Drop to Vertical	
6000.00	8.01	283.00	5944.57	146.13	-617.79 -632.94	-119.13	2.00	Drop to Vertical	
6100.00	6.01	283.00	6043.82	148.87	-644.84	-124.35	2.00		
6200.00	4.01	283.00	6143.43	150.84	-653.36	-125.99	2.00		
6300.00	2.01	283.00	6243.29	152.02	-658.48	-126.98	2.00		
6400.00	0.01	283.00	6343.27	152.42	-660.20	-127.31	2.00		



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 vs INC AZI TVD NS EW DLS Comment (°/100ft) (ft) (°) (°) (ft) (ft) (ft) (ft) Hold Vertical 6400.68 0.00 283.00 6343.95 152.42 -660.20-127.312.00 6500.00 0.00 179.75 6443.27 152.42 -660.20 -127.31 0.00 6600.00 0.00 179.75 6543.27 152.42 -660.20 -127.31 0.00 6700.00 0.00 179.75 6643.27 152.42 -660.20 -127.31 0.00 6736.73 0.00 179.75 6680.00 152.42 -660.20 -127.31 0.00 Brushy Canyon 0.00 6800.00 0.00 179.75 6743.27 152.42 -660.20 -127.31 6900.00 0.00 179.75 6843.27 152.42 -660.20 -127.31 0.00 6943.27 7000.00 0.00 179.75 152.42 -660.20 -127.31 0.00 7100.00 0.00 179.75 7043.27 152.42 -660.20 -127.31 0.00 7200.00 0.00 179.75 7143.27 152.42 -660.20 -127.31 0.00 7300.00 179.75 7243.27 152.42 -660.20 -127.31 0.00 0.00 7400.00 0.00 179.75 7343.27 152.42 -660.20 -127.31 0.00 7500.00 0.00 179.75 7443.27 152.42 -660.20 -127.31 0.00 7600.00 0.00 179.75 7543.27 152.42 -660.20 -127.31 7700.00 0.00 179.75 7643.27 152.42 -660.20 -127.31 0.00 7800.00 0.00 179.75 7743.27 152.42 -660.20 -127.31 0.00 7900.00 179.75 7843.27 152.42 -660.20 -127.31 0.00 0.00 8000.00 179.75 7943.27 -660.20 -127.31 0.00 152.42 0.00 8100.00 0.00 179.75 8043.27 152.42 -660.20 -127.31 0.00 8200.00 0.00 179.75 8143.27 152.42 -660.20 -127.31 0.00 8300.00 0.00 179.75 8243.27 152.42 -660.20 -127.31 0.00 8290.00 8346.73 0.00 179.75 152.42 -660.20 -127.31 0.00 1st Bone Spring Lime 8400.00 0.00 179 75 8343 27 152 42 -660.20 -127 31 0.00 8500.00 0.00 179.75 8443.27 152.42 -660.20 -127.31 0.00 8600.00 0.00 179.75 8543.27 152.42 -660.20 -127.31 0.00 8700.00 0.00 179.75 8643.27 152.42 -660.20 -127.31 0.00 8800.00 0.00 179.75 8743 27 152 42 -660.20 -127.31 0.00 8900.00 179.75 8843.27 152.42 -660.20 -127.31 0.00 0.00 9000.00 0.00 179.75 8943.27 152.42 -660.20 -127.31 0.00 9100.00 0.00 179.75 9043.27 152.42 -660.20 -127.31 0.00 9200.00 0.00 179.75 9143.27 152.42 -660.20 -127.31 0.00 9300.00 9243.27 152.42 -660.20 -127.31 0.00 179.75 0.00 9356.73 179.75 9300.00 -660.20 -127.31 0.00 152.42 0.00 Bone Spring 1st 9400.00 0.00 179.75 9343.27 152.42 -660.20 -127.310.00 9500.00 0.00 179.75 9443 27 152 42 -660.20 -127.31 0.00 9600.00 0.00 179.75 9543.27 152.42 -660.20 -127.31 0.00 9700.00 0.00 179.75 9643.27 152.42 -660.20 -127.31 0.00 9800.00 0.00 179.75 9743.27 152.42 -660.20 -127.31 0.00 9900.00 0.00 179.75 9843.27 152.42 -660.20 -127.31 0.00 9976.73 0.00 179.75 9920.00 -660.20 -127.31 0.00 152.42 Bone Spring 2nd 10000.00 9943.27 0.00 179.75 152.42 -660.20 -127.310.00 10100.00 0.00 179.75 10043.27 152.42 -660.20 -127.31 0.00 10200.00 0.00 179.75 10143.27 152.42 -660.20 -127.31 0.00 -127.31 10300.00 0.00 179.75 10243.27 152.42 -660.20 0.00 10400.00 0.00 179.75 10343.27 152.42 -660.20 -127.310.00 10496.73 0.00 179.75 10440.00 152.42 -660.20 -127.31 0.00 3rd Bone Spring Lime 10500.00 0.00 179.75 10443.27 152.42 -660.20 -127.31 0.00 0.00 10543.27 -660.20 0.00 10600.00 179.75 152.42 -127.31 10700.00 0.00 179.75 10643.27 152.42 -660.20 -127.31 0.00 10800.00 179.75 10743.27 152.42 -660.20 -127.31 0.00 0.00 10900.00 0.00 179.75 10843.27 152.42 -660.20 -127.31 0.00 11000.00 0.00 179.75 10943.27 152.42 -660.20 -127.31 0.00 11100.00 0.00 179.75 11043.27 152.42 -660.20 -127.31 0.00 11200.00 152.42 -660.20 -127.31 0.00 179.75 11143.27 0.00 11271.73 11215.00 -127.31 0.00 179.75 152.42 -660.20 0.00 Bone Spring 3rd 11300 00 0.00 179 75 11243 27 152 42 -660.20 -127 31 0.00 11400.00 0.00 179.75 11343.27 152.42 -660.20 -127.31 0.00 11473.78 0.00 179.75 11417.05 152.42 -660.20 -127.31 0.00 2.62 -660.20 10.00 11500.00 179.75 11443.26 151.82 -126.7111600.00 12.62 179.75 11542.25 138.57 -660.14 -113.48 10.00 11700.00 -660.01 22.62 179.75 11637.43 108.34 -83.27 10.00 11769.72 29.59 179.75 11700.00 77.68 -659.88 -52.63 10.00 Wolfcamp / Point of Penetration 11800 00 32 62 179 75 11725 92 62 03 -659.81 -37 00 10.00 11900.00 42.62 179.75 11805.03 1.07 -659.54 23.91 10.00 12000.00 52.62 179.75 11872.35 -72.71 -659.22 97.62 10.00 -157.06 12100.00 62.62 179.75 11925.83 -658.85 181.89 10.00 12200.00 72.62 179 75 11963.85 -249 41 -658 45 274.16 10.00 12300.00 82.62 179.75 11985.26 -346.96 -658.02 371.63 10.00 12375.66 90.19 179.75 11990.00 -422.42 -657.69 447.02 10.00 Landing Point 12400.00 90.19 11989.92 -446.75 -657.59 471.33 0.00 179.75



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	90.19	179.75	11989.59	-546.75	-657.15	571.24	0.00		
12600.00	90.19	179.75	11989.26	-646.75	-656.71	671.15	0.00		
12700.00	90.19	179.75	11988.93	-746.75	-656.28	771.06	0.00		
12800.00	90.19	179.75	11988.60	-846.75	-655.84	870.97	0.00		
12900.00 13000.00	90.19 90.19	179.75 179.75	11988.27 11987.95	-946.75 -1046.75	-655.40 -654.97	970.88 1070.80	0.00		
13100.00	90.19	179.75	11987.62	-1146.74	-654.53	1170.71	0.00		
13200.00	90.19	179.75	11987.29	-1246.74	-654.09	1270.62	0.00		
13300.00	90.19	179.75	11986.96	-1346.74	-653.66	1370.53	0.00		
13400.00	90.19	179.75	11986.63	-1446.74	-653.22	1470.44	0.00		
13500.00	90.19	179.75	11986.30	-1546.74	-652.78	1570.35	0.00		
13600.00	90.19	179.75	11985.97	-1646.74	-652.35	1670.26	0.00		
13700.00	90.19	179.75	11985.64	-1746.73	-651.91	1770.17	0.00		
13800.00	90.19	179.75	11985.31	-1846.73	-651.47	1870.08	0.00		
13900.00 14000.00	90.19	179.75 179.75	11984.98 11984.65	-1946.73 -2046.73	-651.04	1969.99	0.00		
14100.00	90.19 90.19	179.75	11984.33	-2046.73	-650.60 -650.16	2069.90 2169.81	0.00		
14200.00	90.19	179.75	11984.00	-2246.73	-649.73	2269.72	0.00		
14300.00	90.19	179.75	11983.67	-2346.73	-649.29	2369.63	0.00		
14400.00	90.19	179.75	11983.34	-2446.72	-648.86	2469.54	0.00		
14500.00	90.19	179.75	11983.01	-2546.72	-648.42	2569.45	0.00		
14600.00	90.19	179.75	11982.68	-2646.72	-647.98	2669.36	0.00		
14700.00	90.19	179.75	11982.35	-2746.72	-647.55	2769.27	0.00		
14800.00	90.19	179.75	11982.02	-2846.72	-647.11	2869.18	0.00		
14900.00	90.19	179.75	11981.69	-2946.72	-646.67	2969.09	0.00		
15000.00 15100.00	90.19 90.19	179.75 179.75	11981.36 11981.03	-3046.72 -3146.71	-646.24 -645.80	3069.00 3168.91	0.00		
15200.00	90.19	179.75	11980.70	-3246.71	-645.36	3268.82	0.00		
15300.00	90.19	179.75	11980.38	-3346.71	-644.93	3368.73	0.00		
15400.00	90.19	179.75	11980.05	-3446.71	-644.49	3468.64	0.00		
15500.00	90.19	179.75	11979.72	-3546.71	-644.05	3568.55	0.00		
15600.00	90.19	179.75	11979.39	-3646.71	-643.62	3668.46	0.00		
15700.00	90.19	179.75	11979.06	-3746.71	-643.18	3768.37	0.00		
15800.00	90.19	179.75	11978.73	-3846.70	-642.74	3868.28	0.00		
15900.00	90.19	179.75	11978.40	-3946.70	-642.31	3968.19	0.00		
16000.00 16100.00	90.19	179.75 179.75	11978.07 11977.74	-4046.70 -4146.70	-641.87 -641.43	4068.10 4168.01	0.00		
16200.00	90.19 90.19	179.75	11977.74	-4246.70	-641.43	4267.92	0.00		
16300.00	90.19	179.75	11977.08	-4346.70	-640.56	4367.83	0.00		
16400.00	90.19	179.75	11976.76	-4446.69	-640.12	4467.74	0.00		
16500.00	90.19	179.75	11976.43	-4546.69	-639.69	4567.65	0.00		
16600.00	90.19	179.75	11976.10	-4646.69	-639.25	4667.56	0.00		
16700.00	90.19	179.75	11975.77	-4746.69	-638.81	4767.47	0.00		
16800.00	90.19	179.75	11975.44	-4846.69	-638.38	4867.39	0.00		
16900.00	90.19	179.75	11975.11	-4946.69	-637.94	4967.30	0.00		
17000.00 17100.00	90.19 90.19	179.75 179.75	11974.78 11974.45	-5046.69 -5146.68	-637.50 -637.07	5067.21 5167.12	0.00		
17100.00	90.19	179.75	11974.12		-636.63	5267.03	0.00		
17300.00	90.19	179.75	11973.79	-5346.68	-636.19	5366.94	0.00		
17400.00	90.19	179.75	11973.46	-5446.68	-635.76	5466.85	0.00		
17500.00	90.19	179.75	11973.14	-5546.68	-635.32	5566.76	0.00		
17600.00	90.19	179.75	11972.81	-5646.68	-634.88	5666.67	0.00		
17700.00	90.19	179.75	11972.48	-5746.68	-634.45	5766.58	0.00		
17800.00	90.19	179.75	11972.15	-5846.67	-634.01	5866.49	0.00		
17900.00	90.19	179.75	11971.82	-5946.67	-633.57	5966.40	0.00		
18000.00 18100.00	90.19 90.19	179.75 179.75	11971.49 11971.16	-6046.67 -6146.67	-633.14 -632.70	6066.31 6166.22	0.00		
18200.00	90.19	179.75	11971.16	-6246.67	-632.70	6266.13	0.00		
18300.00	90.19	179.75	11970.50	-6346.67	-631.83	6366.04	0.00		
18400.00	90.19	179.75	11970.17	-6446.66	-631.39	6465.95	0.00		
18500.00	90.19	179.75	11969.84	-6546.66	-630.95	6565.86	0.00		
18600.00	90.19	179.75	11969.52	-6646.66	-630.52	6665.77	0.00		
18700.00	90.19	179.75	11969.19	-6746.66	-630.08	6765.68	0.00		
18800.00	90.19	179.75	11968.86	-6846.66	-629.64	6865.59	0.00		
18900.00	90.19	179.75	11968.53	-6946.66	-629.21	6965.50	0.00		
19000.00	90.19	179.75	11968.20	-7046.66	-628.77	7065.41	0.00		
19100.00 19200.00	90.19 90.19	179.75 179.75	11967.87 11967.54	-7146.65 -7246.65	-628.34 -627.90	7165.32 7265.23	0.00		
19200.00	90.19	179.75	11967.54	-7246.65 -7346.65	-627.90 -627.46	7365.14	0.00		
19400.00	90.19	179.75	11966.88	-7446.65	-627.03	7465.05	0.00		



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	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19500.00	90.19	179.75	11966.55	-7546.65	-626.59	7564.96	0.00	
19600.00	90.19	179.75	11966.22	-7646.65	-626.15	7664.87	0.00	
19700.00	90.19	179.75	11965.90	-7746.65	-625.72	7764.78	0.00	
19800.00	90.19	179.75	11965.57	-7846.64	-625.28	7864.69	0.00	
19900.00	90.19	179.75	11965.24	-7946.64	-624.84	7964.60	0.00	
20000.00	90.19	179.75	11964.91	-8046.64	-624.41	8064.51	0.00	
20100.00 20200.00	90.19 90.19	179.75 179.75	11964.58 11964.25	-8146.64 -8246.64	-623.97	8164.42 8264.33	0.00	
20300.00	90.19	179.75	11964.23	-8346.64	-623.53 -623.10	8364.24	0.00	
20400.00	90.19	179.75	11963.59	-8446.63	-622.66	8464.15	0.00	
20500.00	90.19	179.75	11963.26	-8546.63	-622.22	8564.06	0.00	
20600.00	90.19	179.75	11962.93	-8646.63	-621.79	8663.97	0.00	
20700.00	90.19	179.75	11962.60	-8746.63	-621.35	8763.89	0.00	
20800.00	90.19	179.75	11962.27	-8846.63	-620.91	8863.80	0.00	
20900.00	90.19	179.75	11961.95	-8946.63	-620.48	8963.71	0.00	
21000.00	90.19	179.75	11961.62	-9046.63	-620.04	9063.62	0.00	
21100.00	90.19	179.75	11961.29	-9146.62	-619.60	9163.53	0.00	
21200.00 21300.00	90.19 90.19	179.75 179.75	11960.96 11960.63	-9246.62 -9346.62	-619.17 -618.73	9263.44 9363.35	0.00	
21400.00	90.19	179.75	11960.30	-9446.62	-618.29	9463.26	0.00	
21500.00	90.19	179.75	11959.97	-9546.62	-617.86	9563.17	0.00	
21600.00	90.19	179.75	11959.64	-9646.62	-617.42	9663.08	0.00	
21700.00	90.19	179.75	11959.31	-9746.62	-616.98	9762.99	0.00	
21800.00	90.19	179.75	11958.98	-9846.61	-616.55	9862.90	0.00	
21900.00	90.19	179.75	11958.65	-9946.61	-616.11	9962.81	0.00	
22000.00	90.19	179.75		-10046.61	-615.67	10062.72	0.00	
22100.00	90.19	179.75		-10146.61	-615.24	10162.63	0.00	
22200.00 22300.00	90.19 90.19	179.75 179.75		-10246.61 -10346.61	-614.80 -614.36	10262.54 10362.45	0.00	
22400.00	90.19	179.75		-10446.60	-613.93	10462.36	0.00	
22500.00	90.19	179.75		-10546.60	-613.49	10562.27	0.00	
22600.00	90.19	179.75		-10646.60	-613.05	10662.18	0.00	
22700.00	90.19	179.75	11956.02	-10746.60	-612.62	10762.09	0.00	
22800.00	90.19	179.75	11955.69	-10846.60	-612.18	10862.00	0.00	
22900.00	90.19	179.75		-10946.60	-611.74	10961.91	0.00	
23000.00	90.19	179.75		-11046.60	-611.31	11061.82	0.00	
23100.00	90.19	179.75		-11146.59	-610.87	11161.73	0.00	
23200.00 23300.00	90.19 90.19	179.75 179.75		-11246.59 -11346.59	-610.43 -610.00	11261.64 11361.55	0.00	
23400.00	90.19	179.75		-11346.59	-609.56	11461.46	0.00	
23500.00	90.19	179.75		-11546.59	-609.13	11561.37	0.00	
23600.00	90.19	179.75		-11646.59	-608.69	11661.28	0.00	
23700.00	90.19	179.75	11952.73	-11746.59	-608.25	11761.19	0.00	
23800.00	90.19	179.75	11952.40	-11846.58	-607.82	11861.10	0.00	
23900.00	90.19	179.75	11952.07	-11946.58	-607.38	11961.01	0.00	
24000.00	90.19	179.75		-12046.58	-606.94	12060.92	0.00	
24100.00	90.19	179.75		-12146.58	-606.51	12160.83	0.00	
24200.00	90.19	179.75 179.75		-12246.58 -12346.58	-606.07 -605.63	12260.74	0.00	
24300.00 24400.00	90.19 90.19	179.75 179.75		-12346.58 -12446.58	-605.63 -605.20	12360.65 12460.56	0.00	
24500.00	90.19	179.75		-12546.57	-604.76	12560.48	0.00	
24600.00	90.19	179.75		-12646.57	-604.32	12660.39	0.00	
24700.00	90.19	179.75		-12746.57	-603.89	12760.30	0.00	
24800.00	90.19	179.75		-12846.57	-603.45	12860.21	0.00	
24900.00	90.19	179.75		-12946.57	-603.01	12960.12	0.00	
25000.00	90.19	179.75		-13046.57	-602.58	13060.03	0.00	
25100.00	90.19	179.75		-13146.56	-602.14	13159.94	0.00	
25200.00 25300.00	90.19 90.19	179.75 179.75		-13246.56 -13346.56	-601.70 -601.27	13259.85 13359.76	0.00	
25400.00	90.19	179.75		-13446.56	-600.83	13459.67	0.00	
25500.00	90.19	179.75		-13546.56	-600.39	13559.58	0.00	
25600.00	90.19	179.75		-13646.56	-599.96	13659.49	0.00	
25700.00	90.19	179.75		-13746.56	-599.52	13759.40	0.00	
25800.00	90.19	179.75	11945.82	-13846.55	-599.08	13859.31	0.00	
25900.00	90.19	179.75		-13946.55	-598.65	13959.22	0.00	
26000.00	90.19	179.75		-14046.55	-598.21	14059.13	0.00	
26100.00	90.19	179.75		-14146.55	-597.77	14159.04	0.00	
26200.00	90.19	179.75		-14246.55	-597.34	14258.95	0.00	
26300.00 26400.00	90.19 90.19	179.75 179.75		-14346.55 -14446.55	-596.90 -596.46	14358.86 14458.77	0.00	
20-100.00	50.15	113.13	115-15.04	1-1-10.55	330.40	14430.11	0.00	

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
26500.00	90.19	179.75	11943.52	-14546.54	-596.03	14558.68	0.00	_
26600.00	90.19	179.75	11943.19	-14646.54	-595.59	14658.59	0.00	
26700.00	90.19	179.75	11942.86	-14746.54	-595.15	14758.50	0.00	
26800.00	90.19	179.75	11942.53	-14846.54	-594.72	14858.41	0.00	
26900.00	90.19	179.75	11942.20	-14946.54	-594.28	14958.32	0.00	
27000.00	90.19	179.75	11941.87	-15046.54	-593.84	15058.23	0.00	
27100.00	90.19	179.75	11941.54	-15146.53	-593.41	15158.14	0.00	
27200.00	90.19	179.75	11941.21	-15246.53	-592.97	15258.05	0.00	
27300.00	90.19	179.75	11940.88	-15346.53	-592.53	15357.96	0.00	
27400.00	90.19	179.75	11940.55	-15446.53	-592.10	15457.87	0.00	
27482.22	90.19	179.75	11940.28	-15528.75	-591.74	15540.02	0.00	exit
27500.00	90.19	179.75	11940.22	-15546.53	-591.66	15557.78	0.00	
27562.22	90.19	179.75	11940.00	-15608.75	-591.43	15619.95	0.00	BHL

Issued on: 16 Sep. 2022 by Logan Van Gorp



Connection Data Sheet

HIGHER TORQUE VERSION

OD	Weight (lb/ft)	Wall Th.	Grade	Alt. Drift:	Connection
8 5/8 in.	Nominal: 32.00	0.352 in.	P110EC	7.875 in.	VAM® SPRINT-FJ
	Plain End: 31.13				

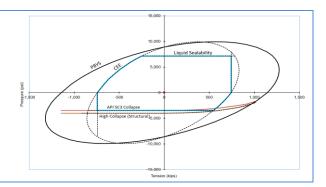
PIPE PROPERTIES										
Nominal OD	8.625	in.								
Nominal ID	7.921	in.								
Nominal Cross Section Area	9.149	sqin.								
Grade Type	Hig	jh Yield								
Min. Yield Strength	125	ksi								
Max. Yield Strength	140	ksi								
Min. Ultimate Tensile Strength	135	ksi								

CONNECTION PROP	ERTIES	
Connection Type	Semi-Premium Int	egral Flush
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	5.978	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMAN	ICES	
Tensile Yield Strength	744	klb
Compression Resistance	744	klb
Max. Internal Pressure	7,150	psi
Structural Collapse Resistance	4,000	psi
Max. Structural Bending	41	°/100ft
Max. Bending with Sealability	10	°/100ft

23,000	ft.lb
25,500	ft.lb
28,000	ft.lb
48,000	ft.lb
	25,500 28,000

VAM® SPRINT-FJ is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension capacity are required for intermediate casing strings.



canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com Do you need help on this product? - Remember no one knows $\mathrm{VAM}^{\scriptsize{\textcircled{\tiny{\$}}}}$ like $\mathrm{VAM}^{\scriptsize{\textcircled{\$}}}$

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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance



^{* 87.5%} RBW

COTTON DRAW UNIT 613H

1. Geologic Formations

TVD of target	11940	Pilot hole depth	N/A
MD at TD:	27562	Deepest expected fresh water	

Basin

Dasin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	660		
Salt	1010		
Base of Salt	4400		
Delaware	4400		
Cherry Canyon	5360		
Brushy Canyon	6680		
1st Bone Spring Lime	8290		
Bone Spring 1st	9300		
Bone Spring 2nd	9920		
3rd Bone Spring Lime	10440		
Bone Spring 3rd	11215		
Wolfcamp	11700		

^{*}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)
14 3/4	10 3/4	45 1/2	J-55	ВТС	0	685	0	685
9 7/8	8 5/8	32	P110EC	Sprint FJ	0	11373	0	11373
7 7/8	5 1/2	20	P110EC	DWC / C-IS+	0	27562	0	11940

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

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. Operator will run one CBL per well pad.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	421	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	475	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int I	538	6736	13.2	1.44	Tail: Class H / C + additives
Production	117	9474	9	3.27	Lead: Class H /C + additives
Production	2129	11474	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:											
			Anı	nular	X	50% of rated working pressure											
Int 1	13-5/8"	5M	Bline	Blind Ram													
Int 1	13-3/6	3101		Ram		5M											
			Doub	le Ram	X	J1V1											
			Other*														
	13-5/8"	5M	Annul	ar (5M)	X	50% of rated working pressure											
Doe doest on			Blind Ram		X	514											
Production			Pipe Ram														
														Doub	le Ram	X	5M
			Other*														
			Annul	ar (5M)													
			Blind	d Ram													
			Pipe	Ram													
			Doub	le Ram													
			Other*														
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.																
Y A variance is requested to	A variance is requested to run a 5 M annular on a 10M system																

5. Mud Program (Three String Design)

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 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	Specfiy what type and where?
BH pressure at deepest TVD	6519
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.

measured va	measured values and formations will be provided to the BLM.		
N	H2S is present		
Y	H2S plan attached.		

COTTON DRAW UNIT 613H

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 (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.

Attachments	1
X	Directional Plan
	Other, describe



<u>10-3/4"</u> <u>45.50#</u> <u>0.400"</u> <u>J-55</u>

in.

10.750

Dimensions (Nominal)

Outside Diameter

Wall Inside Diameter	0.400 9.950	in. in.
Drift	9.875	in.
Weight, T&C	45.500	lbs/ft
Weight, PE	44.260	lbs/ft
Internal Yield Pressure at Minimum Yield		
Collapse	2090	psi
Internal Yields Pressure		
PE	3580	psi
STC	3580	psi
ВТС	3580	psi
Yield Strength, Pipe Body	715	1000 lbs
Joint Strength, STC		
STC	493	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

796

1000 lbs

BTC

Form C-102

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

1,913.48

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Revised August 1, 2011 Submit one copy to appropriate District Office

X AMENDED REPORT

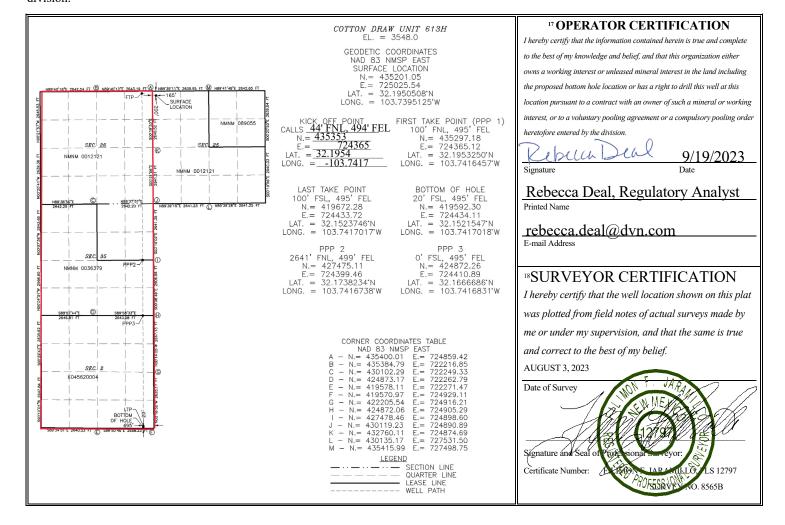
WELL LOCATION AND ACREAGE DEDICATION PLAT

	¹ API Number ² Pool Code 30-015-49134 98220		³ Pool Name PURPLE SAGE; WOLFCAMP	
⁴ Property Code	17134		5 Property Name	
33184	COTTON DRAW UNIT		⁶ Well Number 613 H	
⁷ OGRID No.	8 Operator Name		⁹ Elevation	
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.		3548.0	

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	25	24 S	31 E		200	NORTH	165	WEST	EDDY	
	" Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
P	2	25 S	31 E		20	SOUTH	495	EAST	EDDY	
12 Dedicated Acre	es 13 Joint	or Infill 14	Consolidation	n Code	¹⁵ Order No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



ntent	t x	As Dril	led											
API#]											
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.						Property Name: COTTON DRAW UNIT							Well Number	
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet			n E/W	County	
Latitu	26	24S	31E		44	مام	FNL			494	F	EL	LEA NAD	
Latitu		2.1954			Longitu		-103.7417	,					NAD	83
First T	ake Poir	nt (FTP)												
UL A	Section 26	Township 24S	Range 31E	Lot	Feet 100		From N		Feet 495		From	n E/W S T	County EDDY	
Latitu		1	J . L		Longitu				.00			•	NAD	
32.1	195325	0			103.7	416	6457						83	
UL P Latitu	Section 2	t (LTP) Township 25S	Range 31E	Lot	Feet 100 Longitu	SO	m N/S OUTH	Feet 495		From EAS		Count EDD NAD		
32.1	152374	-6			103.7	417	7017					83		
		defining v	vell for th	e Hori:	zontal Sp	oacin	g Unit?		N]				
	l is yes p ng Unit.	lease provi	ide API if a	availak	ole, Oper	ator	Name	and v	vell ni	umber	for [Definir	ng well fo	or Horizontal
API#														
Ope	rator Nai	me:				Pro	perty N	lame:						Well Number
DEVO	ON ENER	GY PRODU	CTION CC	MPAN	NY, L.P.		сотто	N DR	AW U	INIT				607H
														V7.00/20/20

KZ 06/29/2018



Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 17.00 Plain End: 16.89	0.304	VST P110 EC	4.767	87.5	DWC/C-IS PLUS

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.892	in.
Nominal Area	4.962	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	620	klb
Ultimate Strength	670	klb
Min. Internal Yield	12,090	psi
High Collapse	8,840	psi

Connection Type	Semi-Premium T&	С
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.892	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	4.962	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	620	klb
Parting Load	670	klb
Compression Rating	620	klb
Min. Internal Yield	12,090	psi
High Collapse	8,840	psi
Maximum Uniaxial Bend Rating	104.2	°/100 ft
Ref String Length w 1.4 Design Factor	26,050	ft

FIELD TORQUE VALUES		
Min. Make-up Torque	13,400	ft.lbs
Opti. Make-up Torque	14,350	ft.lbs
Max. Make-up Torque	15,300	ft.lbs
Min. Shoulder Torque	1,340	ft.lbs
Max. Shoulder Torque	10,720	ft.lbs
Max. Delta Turn	0.200	Turns
Max Operational Torque	17,200	ft.lbs
Maximum Torsional Value (MTV)	18,920	ft.lbs

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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05/23/2023 4:15 PM



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VAM USA Sales E-mail: VAMUSAsales@vam-usa.com Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

- DWC connections are available with a seal ring (SR) option.
- All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- The torque values listed are recommended. The actual torque required may be affected by field 8. conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

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05/23/2023 4:15 PM



Page 57 of 58 26-24-31-D Sundry ID 2752621 Cotton Draw Unit 613H Eddy NM012121 DEVON ENERGY PRODUCTION COMPANY LP 13-22fa 9-29-2023 LV.xlsm

10 3/4		surface csg in a	14 3/4	inch hole.		Design I	Factors			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	а-В	a-C	Weigh
"A"	45.50		j 55	btc	20.29	5.77	0.58	775	10	0.97	10.89	35,26
"B"			,	btc				0				0
_	w/s	8.4#/g mud, 30min Sfc Csg Test	nsig: 1 500	Tail Cmt	does not	circ to sfc.	Totals:	775				35,26
Comparison		o Minimum Required Ceme		run ome	doco not	on o to oro.	i otais.	770				00,20
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
14 3/4	0.5563	421	606	431	41	9.00	3701	5M				1.50
		gment(s) A, B = , b All > 0.7	70, OK.			e racks S or E) a		II.D.4.i. not fo				
85/8	C	asing inside the	10 3/4			Design I	Factors			Int 1		
Segment	#/ft	Grade	,-	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	32.00		p 110	vam sprint fj	2.04	0.64	1.1	11,373	1	1.84	1.08	_
"B"	02.00		F 110	Tani opinicij	2.01	0.01	1	0	•	1.01	1.50	0
	· //	8.4#/g mud, 30min Sfc Csg Test	ncia: 12				Totals:	11,373				363,93
	w/			ded to achieve a top of	0	ft from su		775				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
9 7/8	0.1261	538	775	1441	-46	10.50	3886	5M				0.61
	0.1261	536		1441	-40	10.50						
D V Tool(s): by stage %:		31	6680 29				sum of sx 1013	<u>Σ CuFt</u> 1867				Σ%exce
Class 'C' tail cn	nt yld > 1.35											
Tail cmt												
Tail cmt 5 1/2	C	asing inside the	8 5/8			Design Fac	ctors			Prod 1		
	c: #/ft	asing inside the Grade	8 5/8	Coupling	Joint	Design Fac	ctors Burst	Length	B@s	Prod 1 a-B	a-C	Weigh
5 1/2			8 5/8 p 110	Coupling dwc/c is+	Joint 3.05			Length 27,562	B@s 2		a-C 3.11	_
5 1/2 Segment	#/ft					Collapse	Burst	_	_	а-В	-	_
5 1/2 Segment "A"	#/ft					Collapse	Burst	27,562	_	а-В	-	551,24
5 1/2 Segment "A" "B"	#/ft			dwc/c is+		Collapse	Burst	27,562 0	_	а-В	-	551,24 0
5 1/2 Segment "A" "B" "C"	#/ft 20.00	Grade	p 110			Collapse	Burst	27,562 0 0 0	_	а-В	-	551,24 0 0 0
5 1/2 Segment "A" "B" "C"	#/ft 20.00	Grade 8.4#/g mud, 30min Sfc Csg Test	p 110 psig: 2,627	dwc/c is+	3.05	Collapse 1.86	Burst 2.2 Totals:	27,562 0 0	_	а-В	3.11	551,24 0 0 0 551,24
5 1/2 Segment "A" "B" "C"	#/ft 20.00	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v	p 110 psig: 2,627 olume(s) are intend	dwc/c is+ 0 ded to achieve a top of	3.05	Collapse 1.86	Burst 2.2 Totals:	27,562 0 0 0 27,562 200	_	а-В	3.11	551,24 0 0 0 551,24 overlap.
5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00 w/s	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage	p 110 psig: 2,627 olume(s) are intend 1 Stage	dwc/c is+ 0 ded to achieve a top of Min	3.05 11173 1 Stage	Collapse 1.86 ft from su Drilling	Burst 2.2 Totals: rface or a Calc	27,562 0 0 0 27,562 200 Req'd	_	а-В	3.11	551,24 0 0 0 551,24 overlap. Min Dis
5 1/2 Segment "A" "B" "C" "D" Hole Size	#/ft 20.00 w/s Annular Volume	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,627 olume(s) are intend 1 Stage CuFt Cmt	dwc/c is+ 0 ded to achieve a top of Min Cu Ft	3.05 11173 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 2.2 Totals:	27,562 0 0 0 27,562 200	_	а-В	3.11	0 0 551,24 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8	#/ft 20.00 w/s Annular Volume 0.1733	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage	p 110 psig: 2,627 olume(s) are intend 1 Stage	dwc/c is+ 0 ded to achieve a top of Min	3.05 11173 1 Stage	Collapse 1.86 ft from su Drilling	Burst 2.2 Totals: rface or a Calc	27,562 0 0 0 27,562 200 Req'd	_	а-В	3.11	551,24 0 0 0 551,24 overlap. Min Dis
5 1/2 Segment "A" "B" "C" "D" Hole Size	#/ft 20.00 w/s Annular Volume 0.1733	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,627 olume(s) are intend 1 Stage CuFt Cmt	dwc/c is+ 0 ded to achieve a top of Min Cu Ft	3.05 11173 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 2.2 Totals: rface or a Calc	27,562 0 0 0 27,562 200 Req'd	_	а-В	3.11	551,24 0 0 0 551,24 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail on	#/ft 20.00 w/s Annular Volume 0.1733	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,627 rolume(s) are intend 1 Stage CuFt Cmt 3448	dwc/c is+ 0 ded to achieve a top of Min Cu Ft	3.05 11173 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Burst 2.2 Totals: rface or a Calc MASP	27,562 0 0 0 27,562 200 Req'd	2	a-B 3.70	3.11	551,24 0 0 0 551,24 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail on	#/ft 20.00 w/s Annular Volume 0.1733 mt yld > 1.35	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 2246	p 110 psig: 2,627 olume(s) are intend 1 Stage CuFt Cmt	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840	3.05 11173 1 Stage % Excess 21	ft from su Drilling Mud Wt 10.50	Burst 2.2 Totals: rface or a Calc MASP	27,562 0 0 27,562 200 Req'd BOPE	2 <c< td=""><td>a-B 3.70</td><td>3.11</td><td>551,24 0 0 0 551,24 overlap. Min Dis Hole-Cp 1.19</td></c<>	a-B 3.70	3.11	551,24 0 0 0 551,24 overlap. Min Dis Hole-Cp 1.19
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail on #N/A 0 Segment	#/ft 20.00 w/s Annular Volume 0.1733	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,627 rolume(s) are intend 1 Stage CuFt Cmt 3448	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840 Coupling	3.05 11173 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Burst 2.2 Totals: rface or a Calc MASP	27,562 0 0 0 27,562 200 Req'd BOPE	2	a-B 3.70	3.11	551,24 0 0 0 551,24 overlap. Min Dis Hole-Cp 1.19
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail on #N/A 0 Segment "A"	#/ft 20.00 w/s Annular Volume 0.1733 mt yld > 1.35	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 2246	p 110 psig: 2,627 rolume(s) are intend 1 Stage CuFt Cmt 3448	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840 Coupling 0.00	3.05 11173 1 Stage % Excess 21	ft from su Drilling Mud Wt 10.50	Burst 2.2 Totals: rface or a Calc MASP	27,562 0 0 27,562 200 Req'd BOPE	2 <c< td=""><td>a-B 3.70</td><td>3.11</td><td>551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh</td></c<>	a-B 3.70	3.11	551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail on #N/A 0 Segment	#/ft 20.00 W/s Annular Volume 0.1733 mt yld > 1.35	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 2246 Grade	p 110 psig: 2,627 olume(s) are intent 1 Stage CuFt Cmt 3448	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840 Coupling	3.05 11173 1 Stage % Excess 21	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	27,562 0 0 27,562 200 Req'd BOPE	2 <c< td=""><td>a-B 3.70</td><td>3.11</td><td>551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0</td></c<>	a-B 3.70	3.11	551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class C tail on #N/A 0 Segment "A"	#/ft 20.00 W/s Annular Volume 0.1733 mt yld > 1.35	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 2246 Grade 8.4#/g mud, 30min Sfc Csg Test	p 110 psig: 2,627 olume(s) are intent 1 Stage CuFt Cmt 3448	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840 Coupling 0.00 0.00	3.05 11173 1 Stage % Excess 21 #N/A	ft from su Drilling Mud Wt 10.50 Design F Collapse	Burst 2.2 Totals: rface or a Calc MASP Factors Burst Totals:	27,562 0 0 27,562 200 Req'd BOPE	2 <c< td=""><td>a-B 3.70</td><td>3.11 ng> a-C</td><td>551,24 0 0 551,24 0 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0</td></c<>	a-B 3.70	3.11 ng> a-C	551,24 0 0 551,24 0 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail on #N/A 0 Segment "A" "B"	#/ft 20.00 W/s Annular Volume 0.1733 mt yld > 1.35	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 2246 Grade 8.4#/g mud, 30min Sfc Csg Test	p 110 psig: 2,627 olume(s) are intent 1 Stage CuFt Cmt 3448	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840 Coupling 0.00	3.05 11173 1 Stage % Excess 21 #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Burst 2.2 Totals: rface or a Calc MASP Factors Burst Totals: rface or a	27,562 0 0 27,562 200 Req'd BOPE	2 <c< td=""><td>a-B 3.70</td><td>3.11 ng> a-C</td><td>551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0 overlap.</td></c<>	a-B 3.70	3.11 ng> a-C	551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0 overlap.
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cn #N/A 0 Segment "A"	#/ft 20.00 W/s Annular Volume 0.1733 mt yld > 1.35	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 2246 Grade 8.4#/g mud, 30min Sfc Csg Test	p 110 psig: 2,627 olume(s) are intent 1 Stage CuFt Cmt 3448	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840 Coupling 0.00 0.00	3.05 11173 1 Stage % Excess 21 #N/A	ft from su Drilling Mud Wt 10.50 Design F Collapse	Burst 2.2 Totals: rface or a Calc MASP Factors Burst Totals:	27,562 0 0 27,562 200 Req'd BOPE	2 <c< td=""><td>a-B 3.70</td><td>3.11 ng> a-C</td><td>551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0 overlap.</td></c<>	a-B 3.70	3.11 ng> a-C	551,24 0 0 551,24 overlap. Min Dis Hole-Cp 1.19 Weigh 0 0 overlap.
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail on #N/A 0 Segment "A" "B"	#/ft 20.00 w/s Annular Volume 0.1733 mt yld > 1.35 #/ft	Grade 8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 2246 Grade 8.4#/g mud, 30min Sfc Csg Test Cmt vol ca	p 110 psig: 2,627 rolume(s) are intend 1 Stage CuFt Cmt 3448 5 1/2 psig:	dwc/c is+ 0 ded to achieve a top of Min Cu Ft 2840 Coupling 0.00 0.00 his csg, TOC intended	3.05 11173 1 Stage % Excess 21 #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Burst 2.2 Totals: rface or a Calc MASP Factors Burst Totals: rface or a	27,562 0 0 27,562 200 Req'd BOPE Length 0 0 4N/A	2 <c< td=""><td>a-B 3.70</td><td>3.11 ng> a-C</td><td>551,24 0 0 551,24 0 voverlap. Min Dis Hole-Cp 1.19 Weigh 0 0 0</td></c<>	a-B 3.70	3.11 ng> a-C	551,24 0 0 551,24 0 voverlap. Min Dis Hole-Cp 1.19 Weigh 0 0 0

Carlsbad Field Office 9/29/2023

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#N/A

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

CONDITIONS

Action 290516

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	290516
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing, then a CBL is required.	12/6/2023