

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

Sundry Print Reports
05/15/2024

Well Name: ALLEY CAT 17-20 FED

COM

Well Location: T23S / R32E / SEC 17 /

NWNE / 32.3112625 / -103.6961148

County or Parish/State: LEA /

NM

Type of Action: APD Change

Well Number: 714H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM62223

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2788922

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/08/2024 Time Sundry Submitted: 07:16

Date proposed operation will begin: 05/08/2024

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the BHL and update the casing/cement design on the subject well. Please see attached revised C102, drill plan (offline cement variance included), and directional plan. Permitted BHL: SWSE, 20 FSL, 1650 FEL, 20-23S-32E Proposed BHL: SWSE, 20 FSL, 1320 FEL, 20-23S-32E No new leases have been added since approved APD APD ID: 10400085549

NOI Attachments

Procedure Description

8.625_32_P110HSCY_MO_FXL__with_95__RBW__20240508071547.pdf

10.750_45.5_J55_SEAH_20240508071547.pdf

 $Alley_Cat_17_20_Fed_Com_714H_Directional_Plan_05_01_24_20240508071547.pdf$

5.5_20__P110HP_CDC_HTQ_20240508071547.pdf

WA016886849_ALLEY_CAT_17_20_FED_COM_714H_WL_R5_20240508071548.pdf

Alley_Cat_17_20_Fed_Com_714H_20240508071547.pdf

eived by OCD: 5/15/2024 12:55:20 PM Well Name: ALLEY CAT 17-20 FED

COM

Well Location: T23S / R32E / SEC 17 / NWNE / 32.3112625 / -103.6961148

County or Parish/State: LEA 2 of

Well Number: 714H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM62223

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Alley Cat 17 20 Fed Com 714H Sundry ID 2788922 20240515124745.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: SHAYDA OMOUMI Signed on: MAY 08, 2024 07:16 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Associate 3 Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405) 235-3611

Email address: SHAYDA.OMOUMI@DVN.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

Signature: Long Vo

BLM POC Name: LONG VO BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402 BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved Disposition Date: 05/15/2024

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVE	D
OMB No. 1004-013	37
Expires: October 31, 2	202

5.	Lease	Serial	No

DOK	EAU OF LAND MANAGEMENT					
Do not use this t	IOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee or Tribe Name			
	TRIPLICATE - Other instructions on page	7. If Unit of CA/Agree	ment, Name and/or No.			
1. Type of Well	TRIPLICATE - Other Instructions on pag	<i>e</i> 2	-			
Oil Well Gas V	Vell Other		8. Well Name and No.			
2. Name of Operator			9. API Well No.			
3a. Address	2h Phone No.	(include area code)	10. Field and Pool or E	vnloratory Area		
Ja. Address	30. Filone No.	(include area code)	10. I leid and I ool of E	Apiolatoly Alea		
4. Location of Well (Footage, Sec., T., F.	R.,M., or Survey Description)		11. Country or Parish,	State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	TICE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TYPE OF AC	CTION			
Notice of Intent	Acidize Deep	en Pro	duction (Start/Resume)	Water Shut-Off		
	Alter Casing Hydr	~ <u>—</u>	lamation	Well Integrity		
Subsequent Report			omplete	Other		
Final Abandonment Notice		=	nporarily Abandon ter Disposal			
	peration: Clearly state all pertinent details, i			11		
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)					
		Title				
Signature		Date				
Signature						
	THE SPACE FOR FED	ERAL OR STATE O	FICE USE			
Approved by						
		Title	D	Pate		
	hed. Approval of this notice does not warran equitable title to those rights in the subject leaduct operations thereon.					
	3 U.S.C Section 1212, make it a crime for an ents or representations as to any matter with		llfully 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: NWNE / 198 FNL / 2456 FEL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.3112625 / LONG: -103.6961148 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 1650 FEL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.3115433 / LONG: -103.6935066 (TVD: 11930 feet, MD: 12013 feet)

PPP: NWSE / 2465 FSL / 1652 FEL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.3040831 / LONG: -103.6935036 (TVD: 12221 feet, MD: 14800 feet)

PPP: NWNE / 135 FNL / 1648 FEL / TWSP: 23S / RANGE: 32E / SECTION: 20 / LAT: 32.2969364 / LONG: -103.6934979 (TVD: 12229 feet, MD: 17400 feet)

BHL: SWSE / 20 FSL / 1650 FEL / TWSP: 23S / RANGE: 32E / SECTION: 20 / LAT: 32.2828431 / LONG: -103.6934931 (TVD: 12245 feet, MD: 22523 feet)

Metal One Corp.	MO EVI			MO-FXL 8-	-5/8 32.0					
·	MO-FXL	•	0004	P110HSCY						
Metal One	*1 Pipe Body: Borusan P110H	SCY MinYS125ksi	CDS#	MinYS125ksi						
	95%RBW Special Dr		95%RBW	SD7.875						
	Connection Data	a Sheet	Date	16-Jai	า-24					
ſ										
	Geometry	Imperia	ıl	<u>S.I.</u>						
	Pipe Body		_	_						
	Grade *1	P110HSCY		P110HSCY						
	MinYS *1	125	ksi	125	ksi					
	Pipe OD (D)	8 5/8	in	219.08	mm					
MO-FXL	Weight	32.00	lb/ft	47.68	kg/m					
	Actual weight	31.10		46.34	kg/m					
	Wall Thickness (t)	0.352	in	8.94	mm					
	Pipe ID (d)	7.921	in	201.19	mm					
	Pipe body cross section	9.149	in ²	5,902	mm ²					
A	Special Drift Dia. *1	7.875	in	200.03	mm					
	-	-	-	-	-					
		1	l .							
Box	Connection									
area	Box OD (W)	8.625	in	219.08	mm					
	PIN ID	7.921	in	201.19	mm					
	Make up Loss	3.847	in	97.71	mm					
d ← d	Box Critical Area	5.853	in ²	3686	mm ²					
Make	Joint load efficiency	69	%	69	%					
up	Thread Taper	1		2" per ft)						
loss D	Number of Threads		5	TPI						
Pin	Performance									
critical	Dorformanaa Branartiaa									
area	Performance Properties S.M.Y.S. *1	1.144	kips	5,087	kN					
	M.I.Y.P. *1	9,690	psi	66.83	MPa					
	Collapse Strength *1	4,300	psi	29.66	MPa					
		fied Minimum YIE	_							
<u> </u>		num Internal Yield		-	ıy					
	*1: Borusan: SOP-12-F05 R		11103341	ic of tipe body						
	P110HSCY: MinYS125ksi, 9		5 Collar	se Strength 4 3	∩∩nei					
	Performance Properties			3c offerigiti 4,0	ооры					
	Tensile Yield load	789 kips		of S.M.Y.S.)						
	Min. Compression Yield	789 kips	:	of S.M.Y.S.)						
	Internal Pressure	6,780 psi (-	of M.I.Y.P.)						
	External Pressure	5,. 55		of Collapse St	renath					
	Max. DLS (deg. /100ft)		2		g					
	, , ,		_							
	Recommended Torque									
	Min.	13,600	ft-lb	18,400	N-m					
	Opti.	14,900	ft-lb	20,200	N-m					
	Max.	16,200	ft-lb	21,900	N-m					
	Operational Max.	28,400	ft-lb	38,500	N-m					
	Note : Operational Max. t	· · · · · · · · · · · · · · · · · · ·								
	11010 . Operational Max. t	s. que sun se applie	a ioi iligii		•					
Legal Notice										

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/_images/top/WebsiteTerms_Active_20333287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.



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

in.

in.

1000 lbs

1000 lbs

493

796

10.750

0.400

Dimensions (Nominal)

Outside Diameter

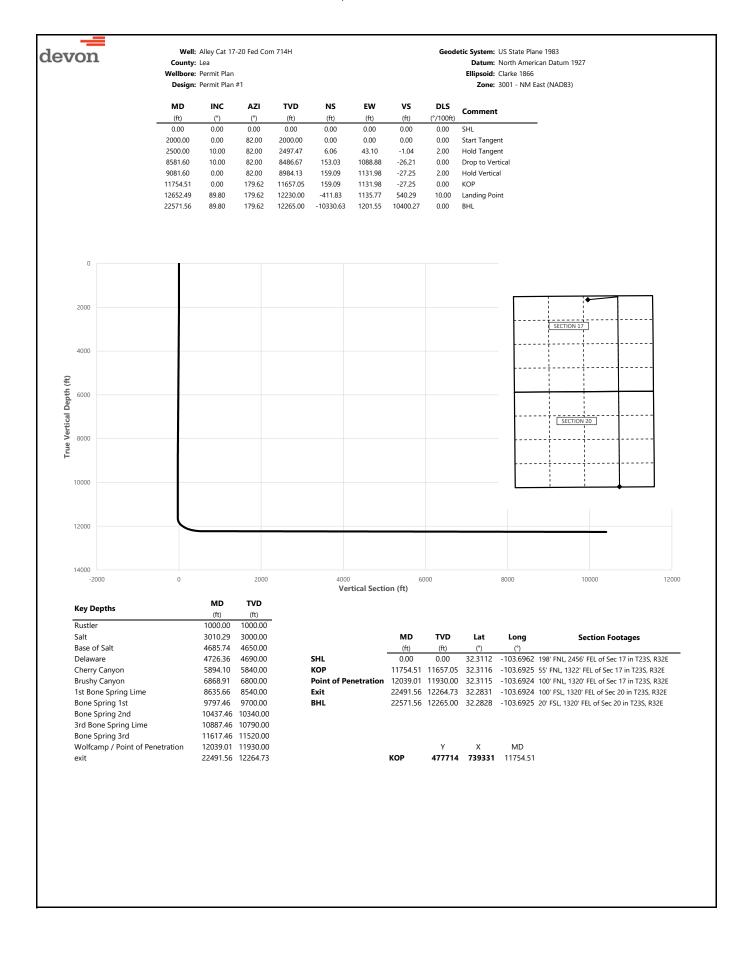
Wall

Inside Diameter Drift	9.950 9.875	in. in.								
Weight, T&C Weight, PE	45.500 44.260	lbs/ft 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										

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.

STC

BTC





County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

	Design: Permit Plan #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	82.00	100.00	0.00	0.00	0.00	0.00			
200.00	0.00	82.00	200.00	0.00	0.00	0.00	0.00			
300.00	0.00	82.00	300.00	0.00	0.00	0.00	0.00			
400.00	0.00	82.00	400.00	0.00	0.00	0.00	0.00			
500.00	0.00	82.00	500.00	0.00	0.00	0.00	0.00			
600.00 700.00	0.00	82.00 82.00	600.00 700.00	0.00 0.00	0.00	0.00	0.00			
800.00	0.00	82.00	800.00	0.00	0.00	0.00	0.00			
900.00	0.00	82.00	900.00	0.00	0.00	0.00	0.00			
1000.00	0.00	82.00	1000.00	0.00	0.00	0.00	0.00	Rustler,		
1100.00	0.00	82.00	1100.00	0.00	0.00	0.00	0.00			
1200.00	0.00	82.00	1200.00	0.00	0.00	0.00	0.00			
1300.00	0.00	82.00	1300.00	0.00	0.00	0.00	0.00			
1400.00	0.00	82.00	1400.00	0.00	0.00	0.00	0.00			
1500.00 1600.00	0.00	82.00 82.00	1500.00 1600.00	0.00 0.00	0.00	0.00	0.00			
1700.00	0.00	82.00	1700.00	0.00	0.00	0.00	0.00			
1800.00	0.00	82.00	1800.00	0.00	0.00	0.00	0.00			
1900.00	0.00	82.00	1900.00	0.00	0.00	0.00	0.00			
2000.00	0.00	82.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent		
2100.00	2.00	82.00	2099.98	0.24	1.73	-0.04	2.00			
2200.00	4.00	82.00	2199.84	0.97	6.91	-0.17	2.00			
2300.00	6.00	82.00	2299.45	2.18	15.54	-0.37	2.00			
2400.00 2500.00	8.00 10.00	82.00 82.00	2398.70 2497.47	3.88 6.06	27.61 43.10	-0.66 -1.04	2.00 2.00	Hold Tangent		
2600.00	10.00	82.00	2595.95	8.47	60.29	-1.45	0.00	Tiold rangent		
2700.00	10.00	82.00	2694.43	10.89	77.49	-1.87	0.00			
2800.00	10.00	82.00	2792.91	13.31	94.69	-2.28	0.00			
2900.00	10.00	82.00	2891.39	15.72	111.88	-2.69	0.00			
3000.00	10.00	82.00	2989.87	18.14	129.08	-3.11	0.00			
3010.29	10.00	82.00	3000.00	18.39	130.85	-3.15	0.00	Salt		
3100.00 3200.00	10.00 10.00	82.00 82.00	3088.35 3186.83	20.56 22.97	146.27 163.47	-3.52 -3.93	0.00			
3300.00	10.00	82.00	3285.31	25.39	180.67	-3.95 -4.35	0.00			
3400.00	10.00	82.00	3383.79	27.81	197.86	-4.76	0.00			
3500.00	10.00	82.00	3482.27	30.22	215.06	-5.18	0.00			
3600.00	10.00	82.00	3580.75	32.64	232.25	-5.59	0.00			
3700.00	10.00	82.00	3679.23	35.06	249.45	-6.00	0.00			
3800.00	10.00	82.00	3777.72	37.47	266.64	-6.42	0.00			
3900.00	10.00	82.00	3876.20	39.89	283.84	-6.83	0.00			
4000.00 4100.00	10.00 10.00	82.00 82.00	3974.68 4073.16	42.31 44.72	301.04 318.23	-7.25 -7.66	0.00			
4200.00	10.00	82.00	4171.64	47.14	335.43	-8.07	0.00			
4300.00	10.00	82.00	4270.12	49.56	352.62	-8.49	0.00			
4400.00	10.00	82.00	4368.60	51.98	369.82	-8.90	0.00			
4500.00	10.00	82.00	4467.08	54.39	387.02	-9.32	0.00			
4600.00	10.00	82.00	4565.56	56.81	404.21	-9.73	0.00			
4685.74	10.00	82.00	4650.00	58.88	418.95	-10.08	0.00	Base of Salt		
4700.00 4726.26	10.00	82.00	4664.04	59.23 59.86	421.41	-10.14 10.25	0.00	Dolawara		
4726.36 4800.00	10.00 10.00	82.00 82.00	4690.00 4762.52	59.86 61.64	425.94 438.60	-10.25 -10.56	0.00	Delaware		
4900.00	10.00	82.00	4861.00	64.06	455.80	-10.36	0.00			
5000.00	10.00	82.00	4959.48	66.48	472.99	-11.38	0.00			
5100.00	10.00	82.00	5057.97	68.89	490.19	-11.80	0.00			
5200.00	10.00	82.00	5156.45	71.31	507.39	-12.21	0.00			
5300.00	10.00	82.00	5254.93	73.73	524.58	-12.63	0.00			
5400.00	10.00	82.00	5353.41	76.14	541.78	-13.04	0.00			
5500.00 5600.00	10.00 10.00	82.00 82.00	5451.89 5550.37	78.56 80.98	558.97 576.17	-13.45 -13.87	0.00			
5700.00	10.00	82.00	5648.85	83.39	593.36	-13.87 -14.28	0.00			
5800.00	10.00	82.00	5747.33	85.81	610.56	-14.70	0.00			
5894.10	10.00	82.00	5840.00	88.08	626.74	-15.09	0.00	Cherry Canyon		
5900.00	10.00	82.00	5845.81	88.23	627.76	-15.11	0.00			
6000.00	10.00	82.00	5944.29	90.64	644.95	-15.52	0.00			
6100.00	10.00	82.00	6042.77	93.06	662.15	-15.94	0.00			
6200.00	10.00	82.00	6141.25	95.48	679.34	-16.35 16.77	0.00			
6300.00 6400.00	10.00 10.00	82.00 82.00	6239.73 6338.22	97.89 100.31	696.54 713.74	-16.77 -17.18	0.00			
6500.00	10.00	82.00	6436.70	102.73	730.93	-17.59	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

Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment		
6600.00	10.00	82.00	6535.18	105.14	748.13	-18.01	0.00			
6700.00	10.00	82.00	6633.66	107.56	765.32	-18.42	0.00			
6800.00	10.00	82.00	6732.14	109.98	782.52	-18.83	0.00			
6868.91	10.00	82.00	6800.00	111.64	794.37	-19.12	0.00	Brushy Canyon		
6900.00	10.00	82.00	6830.62	112.39	799.71	-19.25	0.00	, ,		
7000.00	10.00	82.00	6929.10	114.81	816.91	-19.66	0.00			
7100.00	10.00	82.00	7027.58	117.23	834.11	-20.08	0.00			
7200.00	10.00	82.00	7126.06	119.64	851.30	-20.49	0.00			
7300.00	10.00	82.00	7224.54	122.06	868.50	-20.90	0.00			
7400.00	10.00	82.00	7323.02	124.48	885.69	-21.32	0.00			
7500.00	10.00	82.00	7421.50	126.89	902.89	-21.73	0.00			
		82.00	7519.99		920.09	-21.73	0.00			
7600.00	10.00			129.31						
7700.00	10.00	82.00	7618.47	131.73	937.28	-22.56	0.00			
7800.00	10.00	82.00	7716.95	134.14	954.48	-22.97	0.00			
7900.00	10.00	82.00	7815.43	136.56	971.67	-23.39	0.00			
8000.00	10.00	82.00	7913.91	138.98	988.87	-23.80	0.00			
8100.00	10.00	82.00	8012.39	141.39	1006.06	-24.22	0.00			
8200.00	10.00	82.00	8110.87	143.81	1023.26	-24.63	0.00			
8300.00	10.00	82.00	8209.35	146.23	1040.46	-25.04	0.00			
8400.00	10.00	82.00	8307.83	148.64	1057.65	-25.46	0.00			
8500.00	10.00	82.00	8406.31	151.06	1074.85	-25.87	0.00			
8581.60	10.00	82.00	8486.67	153.03	1088.88	-26.21	0.00	Drop to Vertical		
8600.00	9.63	82.00	8504.80	153.47	1091.99	-26.28	2.00			
8635.66	8.92	82.00	8540.00	154.27	1097.68	-26.42	2.00	1st Bone Spring Lime		
8700.00	7.63	82.00	8603.67	155.56	1106.85	-26.64	2.00	. 5		
8800.00	5.63	82.00	8702.99	157.16	1118.28	-26.91	2.00			
8900.00	3.63	82.00	8802.66	158.29	1126.28	-27.11	2.00			
9000.00	1.63	82.00	8902.55	158.93	1130.83	-27.22	2.00			
9081.60	0.00	82.00	8984.13	159.09	1131.98	-27.25	2.00	Hold Vertical		
9100.00	0.00	179.62	9002.54	159.09	1131.98	-27.24	0.00	Tiola Vertical		
9200.00	0.00	179.62	9102.54	159.09	1131.98	-27.24	0.00			
9300.00										
	0.00	179.62	9202.54	159.09	1131.98	-27.24	0.00			
9400.00	0.00	179.62	9302.54	159.09	1131.98	-27.24	0.00			
9500.00	0.00	179.62	9402.54	159.09	1131.98	-27.24	0.00			
9600.00	0.00	179.62	9502.54	159.09	1131.98	-27.24	0.00			
9700.00	0.00	179.62	9602.54	159.09	1131.98	-27.24	0.00			
9797.46	0.00	179.62	9700.00	159.09	1131.98	-27.24	0.00	Bone Spring 1st		
9800.00	0.00	179.62	9702.54	159.09	1131.98	-27.24	0.00			
9900.00	0.00	179.62	9802.54	159.09	1131.98	-27.24	0.00			
10000.00	0.00	179.62	9902.54	159.09	1131.98	-27.24	0.00			
10100.00	0.00	179.62	10002.54	159.09	1131.98	-27.24	0.00			
10200.00	0.00	179.62	10102.54	159.09	1131.98	-27.24	0.00			
10300.00	0.00	179.62	10202.54	159.09	1131.98	-27.24	0.00			
10400.00	0.00	179.62	10302.54	159.09	1131.98	-27.24	0.00			
10437.46	0.00	179.62	10340.00	159.09	1131.98	-27.24	0.00	Bone Spring 2nd		
10500.00	0.00	179.62	10402.54	159.09	1131.98	-27.24	0.00	. 5		
10600.00	0.00	179.62	10502.54	159.09	1131.98	-27.24	0.00			
10700.00	0.00	179.62	10602.54	159.09	1131.98	-27.24	0.00			
10800.00	0.00	179.62	10702.54	159.09	1131.98	-27.24	0.00			
10887.46	0.00	179.62	10702.34	159.09	1131.98	-27.24	0.00	3rd Bone Spring Lime		
10900.00	0.00	179.62	10790.00	159.09	1131.98	-27.24	0.00	ora pone opining time		
11000.00	0.00	179.62	10802.54	159.09	1131.98	-27.24 -27.24	0.00			
11100.00	0.00	179.62	11002.54	159.09	1131.98	-27.24	0.00			
11200.00	0.00	179.62	11102.54	159.09	1131.98	-27.24	0.00			
11300.00	0.00	179.62	11202.54	159.09	1131.98	-27.24	0.00			
11400.00	0.00	179.62	11302.54	159.09	1131.98	-27.24	0.00			
11500.00	0.00	179.62	11402.54	159.09	1131.98	-27.24	0.00			
11600.00	0.00	179.62	11502.54	159.09	1131.98	-27.24	0.00			
11617.46	0.00	179.62	11520.00	159.09	1131.98	-27.24	0.00	Bone Spring 3rd		
11700.00	0.00	179.62	11602.54	159.09	1131.98	-27.24	0.00			
11754.51	0.00	179.62	11657.05	159.09	1131.98	-27.25	0.00	KOP		
11800.00	4.55	179.62	11702.49	157.28	1131.99	-25.45	10.00			
11900.00	14.55	179.62	11800.98	140.72	1132.10	-8.98	10.00			
12000.00	24.55	179.62	11895.10	107.30	1132.32	24.24	10.00			
12039.01	28.45	179.62	11930.00	89.90	1132.44	41.54	10.00	Wolfcamp / Point of Penetration		
12100.00	34.55	179.62	11981.98	58.04	1132.65	73.20	10.00	, , , , , , , , , , , , , , , , , , , ,		
12200.00	44.55	179.62	12058.99	-5.55	1133.07	136.42	10.00			
12300.00	54.55	179.62	12123.79	-81.55	1133.58	211.96	10.00			
	64.55	179.62	12174.40	-167.64	1133.36	297.55	10.00			
12400 00										
12400.00 12500.00	74.55	179.62	12209.30	-261.22	1134.77	390.57	10.00			



County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

Design: Permit Plan #1							Zone: 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment			
12600.00	84.55	179.62	12227.41	-359.43	1135.42	488.20	10.00				
12652.49	89.80	179.62	12230.00	-411.83	1135.77	540.29	10.00	Landing Point			
12700.00	89.80	179.62	12230.17	-459.35	1136.08	587.52	0.00	<u> </u>			
12800.00	89.80	179.62	12230.52	-559.34	1136.74	686.93	0.00				
12900.00	89.80	179.62	12230.87	-659.34	1137.41	786.33	0.00				
13000.00	89.80	179.62	12231.23	-759.34	1138.07	885.74	0.00				
13100.00	89.80	179.62	12231.58	-859.34	1138.73	985.14	0.00				
13200.00	89.80	179.62	12231.36	-959.33	1130.73	1084.55	0.00				
13300.00	89.80	179.62	12231.93	-959.33	1140.06	1183.95	0.00				
13400.00	89.80	179.62	12232.29	-1059.33	1140.06		0.00				
						1283.35 1382.76					
13500.00	89.80	179.62	12232.99	-1259.32	1141.39		0.00				
13600.00	89.80	179.62		-1359.32	1142.05	1482.16	0.00				
13700.00	89.80	179.62	12233.70	-1459.32	1142.72	1581.57	0.00				
13800.00	89.80	179.62	12234.05	-1559.32	1143.38	1680.97	0.00				
13900.00	89.80	179.62		-1659.31	1144.04	1780.38	0.00				
14000.00	89.80	179.62		-1759.31	1144.71	1879.78	0.00				
14100.00	89.80	179.62	12235.11	-1859.31	1145.37	1979.18	0.00				
4200.00	89.80	179.62		-1959.30	1146.03	2078.59	0.00				
4300.00	89.80	179.62	12235.82	-2059.30	1146.70	2177.99	0.00				
14400.00	89.80	179.62	12236.17	-2159.30	1147.36	2277.40	0.00				
14500.00	89.80	179.62	12236.52	-2259.30	1148.02	2376.80	0.00				
14600.00	89.80	179.62	12236.87	-2359.29	1148.69	2476.20	0.00				
14700.00	89.80	179.62	12237.23	-2459.29	1149.35	2575.61	0.00				
14800.00	89.80	179.62	12237.58	-2559.29	1150.01	2675.01	0.00				
14900.00	89.80	179.62	12237.93	-2659.28	1150.68	2774.42	0.00				
15000.00	89.80	179.62	12238.29	-2759.28	1151.34	2873.82	0.00				
15100.00	89.80	179.62	12238.64	-2859.28	1152.00	2973.23	0.00				
15200.00	89.80	179.62	12238.99	-2959.28	1152.67	3072.63	0.00				
15300.00	89.80	179.62	12239.35	-3059.27	1153.33	3172.03	0.00				
5400.00	89.80	179.62	12239.70	-3159.27	1153.99	3271.44	0.00				
5500.00	89.80	179.62	12240.05	-3159.27	1155.99	3370.84	0.00				
		179.62	12240.03	-3259.27	1154.66		0.00				
5600.00	89.80 89.80					3470.25 3569.65					
5700.00	89.80	179.62	12240.76	-3459.26	1155.98	3569.65	0.00				
5800.00	89.80	179.62	12241.11	-3559.26	1156.65	3669.06	0.00				
5900.00	89.80	179.62		-3659.26	1157.31	3768.46	0.00				
16000.00	89.80	179.62	12241.82	-3759.25	1157.98	3867.86	0.00				
16100.00	89.80	179.62	12242.17	-3859.25	1158.64	3967.27	0.00				
16200.00	89.80	179.62	12242.52	-3959.25	1159.30	4066.67	0.00				
16300.00	89.80	179.62	12242.88	-4059.25	1159.97	4166.08	0.00				
16400.00	89.80	179.62	12243.23	-4159.24	1160.63	4265.48	0.00				
16500.00	89.80	179.62	12243.58	-4259.24	1161.29	4364.89	0.00				
6600.00	89.80	179.62	12243.93	-4359.24	1161.96	4464.29	0.00				
6700.00	89.80	179.62	12244.29	-4459.23	1162.62	4563.69	0.00				
6800.00	89.80	179.62	12244.64	-4559.23	1163.28	4663.10	0.00				
6900.00	89.80	179.62	12244.99	-4659.23	1163.95	4762.50	0.00				
7000.00	89.80	179.62	12245.35	-4759.23	1164.61	4861.91	0.00				
7100.00	89.80	179.62	12245.70	-4859.22	1165.27	4961.31	0.00				
7200.00	89.80	179.62	12246.05		1165.94	5060.71	0.00				
7300.00	89.80	179.62	12246.41	-5059.22	1166.60	5160.12	0.00				
7400.00	89.80	179.62	12246.76		1167.26	5259.52	0.00				
7500.00	89.80	179.62	12247.11	-5259.21	1167.23	5358.93	0.00				
7600.00	89.80	179.62	12247.11		1167.93	5458.33	0.00				
7700.00	89.80	179.62	12247.46	-5459.21	1169.25	5557.74	0.00				
17800.00											
	89.80	179.62	12248.17	-5559.20	1169.92	5657.14	0.00				
7900.00	89.80	179.62	12248.52	-5659.20	1170.58	5756.54	0.00				
8000.00	89.80	179.62	12248.88	-5759.20	1171.24	5855.95	0.00				
18100.00	89.80	179.62	12249.23	-5859.19	1171.91	5955.35	0.00				
18200.00	89.80	179.62	12249.58	-5959.19	1172.57	6054.76	0.00				
18300.00	89.80	179.62	12249.94	-6059.19	1173.24	6154.16	0.00				
18400.00	89.80	179.62	12250.29	-6159.19	1173.90	6253.57	0.00				
18500.00	89.80	179.62	12250.64	-6259.18	1174.56	6352.97	0.00				
18600.00	89.80	179.62	12250.99	-6359.18	1175.23	6452.37	0.00				
18700.00	89.80	179.62	12251.35	-6459.18	1175.89	6551.78	0.00				
18800.00	89.80	179.62	12251.70	-6559.17	1176.55	6651.18	0.00				
18900.00	89.80	179.62	12252.05	-6659.17	1177.22	6750.59	0.00				
19000.00	89.80	179.62	12252.41	-6759.17	1177.88	6849.99	0.00				
19100.00	89.80	179.62	12252.76	-6859.17	1178.54	6949.40	0.00				
19200.00	89.80	179.62	12253.11	-6959.16	1179.21	7048.80	0.00				
19300.00	89.80	179.62	12253.11		1179.87	7148.20	0.00				
	55.00										
19400.00	89.80	179.62	12253.82	-7159 16	1180.53	7247.61	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

MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19500.00	89.80	179.62	12254.17	-7259.15	1181.20	7347.01	0.00	_
19600.00	89.80	179.62	12254.52	-7359.15	1181.86	7446.42	0.00	
19700.00	89.80	179.62	12254.88	-7459.15	1182.52	7545.82	0.00	
19800.00	89.80	179.62	12255.23	-7559.15	1183.19	7645.22	0.00	
19900.00	89.80	179.62	12255.58	-7659.14	1183.85	7744.63	0.00	
20000.00	89.80	179.62	12255.94	-7759.14	1184.51	7844.03	0.00	
20100.00	89.80	179.62	12256.29	-7859.14	1185.18	7943.44	0.00	
20200.00	89.80	179.62	12256.64	-7959.14	1185.84	8042.84	0.00	
20300.00	89.80	179.62	12256.99	-8059.13	1186.51	8142.25	0.00	
20400.00	89.80	179.62	12257.35	-8159.13	1187.17	8241.65	0.00	
20500.00	89.80	179.62	12257.70	-8259.13	1187.83	8341.05	0.00	
20600.00	89.80	179.62	12258.05	-8359.12	1188.50	8440.46	0.00	
20700.00	89.80	179.62	12258.41	-8459.12	1189.16	8539.86	0.00	
20800.00	89.80	179.62	12258.76	-8559.12	1189.82	8639.27	0.00	
20900.00	89.80	179.62	12259.11	-8659.12	1190.49	8738.67	0.00	
21000.00	89.80	179.62	12259.47	-8759.11	1191.15	8838.08	0.00	
21100.00	89.80	179.62	12259.82	-8859.11	1191.81	8937.48	0.00	
21200.00	89.80	179.62	12260.17	-8959.11	1192.48	9036.88	0.00	
21300.00	89.80	179.62	12260.52	-9059.10	1193.14	9136.29	0.00	
21400.00	89.80	179.62	12260.88	-9159.10	1193.80	9235.69	0.00	
21500.00	89.80	179.62	12261.23	-9259.10	1194.47	9335.10	0.00	
21600.00	89.80	179.62	12261.58	-9359.10	1195.13	9434.50	0.00	
21700.00	89.80	179.62	12261.94	-9459.09	1195.79	9533.90	0.00	
21800.00	89.80	179.62	12262.29	-9559.09	1196.46	9633.31	0.00	
21900.00	89.80	179.62	12262.64	-9659.09	1197.12	9732.71	0.00	
22000.00	89.80	179.62	12263.00	-9759.08	1197.78	9832.12	0.00	
22100.00	89.80	179.62	12263.35	-9859.08	1198.45	9931.52	0.00	
22200.00	89.80	179.62	12263.70	-9959.08	1199.11	10030.93	0.00	
22300.00	89.80	179.62	12264.05	-10059.08	1199.77	10130.33	0.00	
22400.00	89.80	179.62	12264.41	-10159.07	1200.44	10229.73	0.00	
22491.56	89.80	179.62	12264.73	-10250.63	1201.05	10320.75	0.00	exit
22500.00	89.80	179.62	12264.76	-10259.07	1201.10	10329.14	0.00	
22571.56	89.80	179.62	12265.00	-10330.63	1201.55	10400.27	0.00	BHL

2/21/2024 7:47:29 AM

U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

P110 HP USS-CDC HTQ®

		Y		
MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]		
Minimum Yield Strength	125,000		psi	-
Maximum Yield Strength	140,000		psi	-
Minimum Tensile Strength	130,000		psi	-
DIMENSIONS	Pipe	USS-CDC HTQ [®]		
Outside Diameter	5.500	6.300	in.	-
Wall Thickness	0.361		in.	-
Inside Diameter	4.778	4.778	in.	-
Standard Drift	4.653	4.653	in.	-
Alternate Drift			in.	-
Nominal Linear Weight, T&C	20.00		lb/ft	-
Plain End Weight	19.83		lb/ft	-
SECTION AREA	Pipe	USS-CDC HTQ [®]		
Critical Area	5.828	5.828	sq. in.	-
Joint Efficiency		97.0	%	-
PERFORMANCE	Pipe	USS-CDC HTQ [®]		
Minimum Collapse Pressure	13,150	13,150	psi	-
External Pressure Leak Resistance		10,520	psi	-
Minimum Internal Yield Pressure	14,360	14,360	psi	-
Minimum Pipe Body Yield Strength	729,000		lb	-
Joint Strength		707,000	lb	-
Compression Rating		424,000	lb	-
Reference Length		23,567	ft	-
Maximum Uniaxial Bend Rating		60.6	deg/100 ft	-
MAKE-UP DATA	Pipe	USS-CDC HTQ [®]		
Make-Up Loss		4.63	in.	
Minimum Make-Up Torque		14,500	ft-lb	-
Maximum Make-Up Torque		20,500	ft-lb	-
Connection Yield Torque		25,300	ft-lb	-

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
- 5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

Legal Notice

USS - CDC HTQ[®] (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

UL or lot no.

Section

Township

Range

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

☐ AMENDED REPORT

County

LEA

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code ³ Pool Name					
		98248	WC-025 G-08 S243217P; U	PR WC			
⁴ Property Code		⁶ Well Number					
		714H					
⁷ OGRID No.		⁸ Operator Name					
6137		DEVON ENERGY PRODUCTION COMPANY, L.P.					

¹⁰ Surface Location

North/South line

Feet from the

East/West line

EAST

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
В	17	23 S	32 E		198	NORTH	2456	EAST	LEA	
¹¹ Bottom Hole Location If Different From Surface										

Feet from the

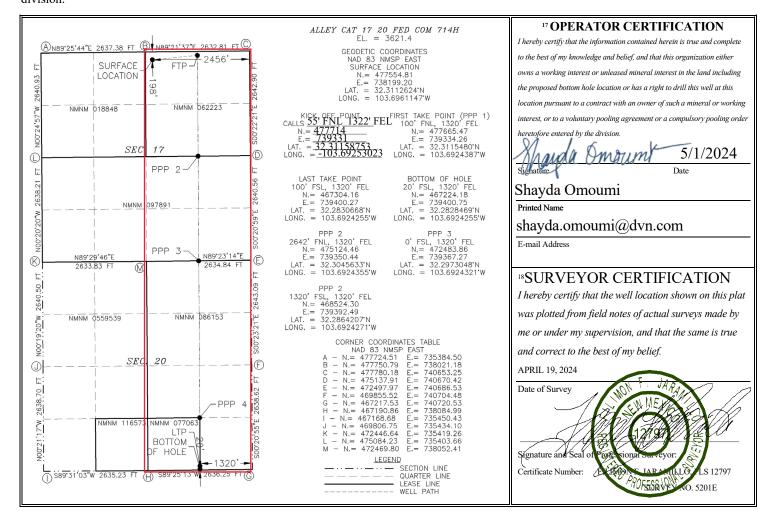
O 20 23 S 32 E 20 SOUTH 1320

12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

Lot Idn

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.



Inten	t X	As Dril	led										
API#													
DE\	Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.				N	Property ALLEY			0 FED	СО	M		Well Number 714H
Kick C	Off Point	(KOP)											
UL	Section	Township	Range	Lot	Feet	From	N/S	Feet	t	From	ı E/W	County	
В	17	235	32E		55		DRTH	1322	2	E.	AST	LEA	
Latitu 32.311					Longitu -103.69							NAD 83	
First 1	Гake Poin	nt (FTP)											
UL B	Section 17	Township 23S	Range 32E	Lot	Feet 100	From N/S NORTH			Feet Fro		i E/W S T	County LEA	
Latitu	ide 311548	0			Longitu 103.6							NAD 83	
UL O Latitu		Township 23S	Range 32E	Lot	Feet 100 Longitu				From E EAST		Count LEA NAD		
32.2	283066	8			103.6	3.6924255 83							
		defining v	vell for th	e Hori:	zontal Sp	pacing Uni	t? [Υ					
	l is yes p ng Unit.	lease prov	ide API if	availak	ole, Oper	rator Nam	e and	well r	number	for [Definiı	ng well fo	r Horizontal
API#													
Ope	Operator Name:				Property	Name	<u>:</u> :					Well Number	

KZ 06/29/2018

1. Geologic Formations

TVD of target	12265	Pilot hole depth	N/A
MD at TD:	22572	Deepest expected fresh water	

Basin

Dasin	Donth	Water/Mineral	
	Depth		
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1000		
Salt	3000		
Base of Salt	4650		
Delaware	4690		
Cherry Canyon	5840		
Brushy Canyon	6800		
1st Bone Spring Lime	8540		
Bone Spring 1st	9700		
Bone Spring 2nd	10340		
3rd Bone Spring Lime	10790		
Bone Spring 3rd	11520		
Wolfcamp	11930		

^{*}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	BTC	0	1025	0	1025
9 7/8	8 5/8	32	P110HSCY	MOFXL	0	11655	0	11655
7 7/8	5 1/2	20	P110HP	CDC-HTQ	0	22572	0	12265

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

3. Cementing Program (Primary Design)

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. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	618	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	476	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int 1	555	6868	13.2	1.44	Tail: Class H / C + additives
Production	117	9755	9	3.27	Lead: Class H /C + additives
Production	1432	11755	13.2	1.44	Tail: Class H / C + additives

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

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

4. Pressure Control Equipment (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	Blind	d Ram	X	
IIIt I	13-3/6	3101	Pipe	Ram		5M
			Doub	le Ram	X	SIVI
			Other*			
			Annular (5M)		X	100% of rated working pressure
Production	13-5/8"	10M	Blind Ram		X	
Production		TOM	Pipe Ram			101/4
			Double Ram		X	10M
			Other*			1
			Annular (5M)			
			Blind Ram			
			Pipe Ram Double Ram			1
			Other*			i
N A variance is requested for	the use of	a diverter o	n the surface	e casing. See	attached for	schematic.
Y A variance is requested to	run a 5 M a	nnular on a	10M system	1		

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,	Logging, Coring and Testing					
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the					
X	Completion Report and shumitted to the BLM.					
	No logs are planned based on well control or offset log information.					
	Drill stem test? If yes, explain.					
	Coring? If yes, explain.					

Additional	logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

7. Et iming Conditions	
Condition	Specfiy what type and where?
BH pressure at deepest TVD	6697
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

cheountered	a measured variety and formations will be provided to the BEM.
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachment	S
X	Directional Plan
	Other, describe



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

Sundry Print Reports
05/15/2024

Well Name: ALLEY CAT 17-20 FED

COM

Well Location: T23S / R32E / SEC 17 /

NWNE / 32.3112625 / -103.6961148

Well Number: 714H Type of Well: OIL WELL

County or Parish/State: LEA /

NM

Allottee or Tribe Name:

Lease Number: NMNM62223

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2788922

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/08/2024 Time Sundry Submitted: 07:16

Date proposed operation will begin: 05/08/2024

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the BHL and update the casing/cement design on the subject well. Please see attached revised C102, drill plan (offline cement variance included), and directional plan. Permitted BHL: SWSE, 20 FSL, 1650 FEL, 20-23S-32E Proposed BHL: SWSE, 20 FSL, 1320 FEL, 20-23S-32E No new leases have been added since approved APD APD ID: 10400085549

NOI Attachments

Procedure Description

8.625_32_P110HSCY_MO_FXL__with_95__RBW__20240508071547.pdf

10.750_45.5_J55_SEAH_20240508071547.pdf

Alley_Cat_17_20_Fed_Com_714H_Directional_Plan_05_01_24_20240508071547.pdf

5.5_20__P110HP_CDC_HTQ_20240508071547.pdf

WA016886849_ALLEY_CAT_17_20_FED_COM_714H_WL_R5_20240508071548.pdf

Alley_Cat_17_20_Fed_Com_714H_20240508071547.pdf

eived by OCD: 5/15/2024 12:55:20 PM Well Name: ALLEY CAT 17-20 FED Well Location: T23S / R32E / SEC 17 /

COM NWNE / 32.3112625 / -103.6961148 County or Parish/State: Page 22 of

NM

Well Number: 714H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM62223

Unit or CA Name:

Unit or CA Number:

Zip:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHAYDA OMOUMI Signed on: MAY 08, 2024 07:16 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Associate 3 Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405) 235-3611

Email address: SHAYDA.OMOUMI@DVN.COM

Field

Representative Name:

Street Address:

City: State:

Phone:

Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

Devon Energy Production Company LP OPERATOR'S NAME:

LEASE NO.: NMNM62223

Section 17, T.23 S., R.32 E., NMPM **LOCATION: COUNTY:** •

Lea County, New Mexico

WELL NAME & NO.: Alley Cat 17-20 Fed Com 714H

SURFACE HOLE FOOTAGE: 198'/N & 2456'/E **BOTTOM HOLE FOOTAGE** 20'/S & 1320'/E ATS/API ID: ATS-22-1298

APD ID: 10400085549 **Sundry ID:** 2788922

COA

H2S	Yes		
Potash	None 🔻		
Cave/Karst	Low		
Potential			
Cave/Karst	Critical		
Potential			
Variance	O None	© Flex Hose	Other
Wellhead	Conventional and Multibov	vI 🔻	
Other	4 String	Capitan Reef	WIPP
		None ▼	
		Ittoric	
Other	Pilot Hole	Open Annulus	
	None 🔻		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None	Int 1	Squeeze
			None -
Special	☐ Water	▼ COM	Unit
Requirements	Disposal/Injection		
Special	Batch Sundry		
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 **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 10-3/4 inch surface casing shall be set at approximately 1215 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 14 3/4 inch in diameter.
 - 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 6800' (555 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 476 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.

C. PRESSURE CONTROL

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

Option 1:

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

Option 2:

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

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.

- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

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

GENERAL REQUIREMENTS

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

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

✓ Lea CountyCall 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 when present.
- A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

- off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 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.

Long Vo (LVO) 5/15/2024

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

EAU OF LAND MANAGEMENT	5. Lease Ser
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SUNDRY NOTICES AND REPORTS ON V Do not use this form for proposals to drill or to	V,
abandoned well. Use Form 3160-3 (APD) for su	
SUBMIT IN TRIPLICATE - Other instructions on page	7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well	0 W-II N I N-
Oil Well Gas Well Other	8. Well Name and No.
2. Name of Operator	9. API Well No.
3a. Address 3b. Phone No.	(include area code) 10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	11. Country or Parish, State
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION
Notice of Intent Acidize Deep Alter Casing Hyde	pen Production (Start/Resume) Water Shut-Off raulic Fracturing Reclamation Well Integrity
Subsequent Report = 5	Construction Recomplete Other and Abandon Temporarily Abandon
Final Abandonment Notice Convert to Injection Plug	Back Water Disposal
is ready for final inspection.)	
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date
	ERAL OR STATE OFICE USE
Approved by	
	Title 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 lewhich would entitle the applicant to conduct operations thereon.	nt or
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	ny person knowingly and willfully to make to any department or agency of the United States in its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NWNE / 198 FNL / 2456 FEL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.3112625 / LONG: -103.6961148 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 1650 FEL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.3115433 / LONG: -103.6935066 (TVD: 11930 feet, MD: 12013 feet)

PPP: NWSE / 2465 FSL / 1652 FEL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.3040831 / LONG: -103.6935036 (TVD: 12221 feet, MD: 14800 feet)

PPP: NWNE / 135 FNL / 1648 FEL / TWSP: 23S / RANGE: 32E / SECTION: 20 / LAT: 32.2969364 / LONG: -103.6934979 (TVD: 12229 feet, MD: 17400 feet)

BHL: SWSE / 20 FSL / 1650 FEL / TWSP: 23S / RANGE: 32E / SECTION: 20 / LAT: 32.2828431 / LONG: -103.6934931 (TVD: 12245 feet, MD: 22523 feet)

etal One Corp.	MO-FXL			MO-FXL 8-	
			CDS#	P110H	
Metal <mark>O</mark> ne	*1 Pipe Body: Borusan P110H		22311	MinYS1	
	95%RBW Special Dri	ļ.	Date	95%RBW	
	Connection Data	Connection Data Sheet		16-Jar	า-24
	Geometry				
	Occinctly	<u>Imperia</u>	<u>l</u>	<u>S.I.</u>	
	Pipe Body				
	Grade *1	P110HSCY		P110HSCY	
	MinYS *1	125	ksi	125	ksi
	Pipe OD (D)	8 5/8	in	219.08	mm
MO-FXL	Weight	32.00	lb/ft	47.68	kg/m
	Actual weight	31.10		46.34	kg/m
	Wall Thickness (t)	0.352	in	8.94	mm
	Pipe ID (d)	7.921	in	201.19	mm
	Pipe body cross section	9.149	in ²	5,902	mm ²
1	Special Drift Dia. *1	7.875	in	200.03	mm
	-	-	-	-	-
Box	O a mare at la m		ı		
critical	Connection	0.005	. 1	040.00	
area	Box OD (W)	8.625	in	219.08	mm
5	PIN ID	7.921	in	201.19	mm
	Make up Loss	3.847	in	97.71	mm
	Box Critical Area	5.853	in ²	3686	mm ²
		0.000			
	Joint load efficiency	69	%	69	%
Make up d d	Joint load efficiency Thread Taper		<mark>%</mark> / 10 (1.	2" per ft)	%
Make	Joint load efficiency	69	<mark>%</mark> / 10 (1.		%
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance	69	<mark>%</mark> / 10 (1.	2" per ft)	%
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties	69 1	% / 10 (1. 5	2" per ft) TPI	
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1	69 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	% / 10 (1. 5	2" per ft) TPI 5,087	kN
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1	69 1,144 9,690	% / 10 (1. 5 kips psi	2" per ft) TPI 5,087 66.83	kN MPa
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1	69 1,144 9,690 4,300	% / 10 (1.	2" per ft) TPI 5,087 66.83 29.66	kN MPa MPa
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi	69 1,144 9,690 4,300 ied Minimum YIE	% / 10 (1. 5	2" per ft) TPI 5,087 66.83 29.66 agth of Pipe bod	kN MPa MPa
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield	% / 10 (1. 5	2" per ft) TPI 5,087 66.83 29.66 agth of Pipe bod	kN MPa MPa
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023	% / 10 (1. 5	2" per ft) TPI 5,087 66.83 29.66 agth of Pipe body	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 9%RBW, SD7.875	% / 10 (1. 5	2" per ft) TPI 5,087 66.83 29.66 agth of Pipe body	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 9%RBW, SD7.879 for Connection	kips psi psi LD Strer Pressur	2" per ft) TPI 5,087 66.83 29.66 ngth of Pipe body se Strength 4,3	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load	for Pipe Body 1,144 9,690 4,300 led Minimum YIE um Internal Yield v.2, 10/17/2023 %RBW, SD7.875 for Connectior 789 kips (kips psi psi LD Strer Pressur	5,087 66.83 29.66 e of Pipe body se Strength 4,3 of S.M.Y.S.	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 6%RBW, SD7.875 for Connection 789 kips (789 kips (kips psi psi LD Strer Pressur 5, Collap	5,087 66.83 29.66 ngth of Pipe body se Strength 4,3 of S.M.Y.S.)	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure	for Pipe Body 1,144 9,690 4,300 led Minimum YIE um Internal Yield v.2, 10/17/2023 %RBW, SD7.875 for Connectior 789 kips (% / 10 (1. 5	5,087 66.83 29.66 ngth of Pipe body se Strength 4,3 of S.M.Y.S.) of M.I.Y.P.)	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 6%RBW, SD7.875 for Connection 789 kips (789 kips (% / 10 (1. 5	5,087 66.83 29.66 agth of Pipe body se Strength 4,3 of S.M.Y.S.) of M.I.Y.P.) of Collapse St	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 6%RBW, SD7.875 for Connection 789 kips (789 kips (% / 10 (1. 5	5,087 66.83 29.66 agth of Pipe body se Strength 4,3 of S.M.Y.S.) of M.I.Y.P.) of Collapse St	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 6%RBW, SD7.875 for Connection 789 kips 6,780 psi (% / 10 (1. 5	5,087 66.83 29.66 ngth of Pipe body se Strength 4,3 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	kN MPa MPa y
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 9%RBW, SD7.875 for Connection 789 kips 789 kips 6,780 psi (% / 10 (1. 5 5 5 5 5 5 5 5 5	5,087 66.83 29.66 ngth of Pipe body se Strength 4,3 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	kN MPa MPa y 00psi rength
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Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti. Max.	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 9%RBW, SD7.875 for Connection 789 kips 789 kips 6,780 psi (% / 10 (1. 5 5 5 5 5 5 5 5 5	5,087 66.83 29.66 ngth of Pipe body se Strength 4,3 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 9 18,400 20,200 21,900	kN MPa MPa y 00psi rength
Make up loss D	Joint load efficiency Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: Borusan: SOP-12-F05 Re P110HSCY: MinYS125ksi, 95 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti.	for Pipe Body 1,144 9,690 4,300 ied Minimum YIE um Internal Yield v.2, 10/17/2023 9%RBW, SD7.875 for Connection 789 kips 789 kips 6,780 psi (13,600 14,900	% / 10 (1	5,087 66.83 29.66 ngth of Pipe body se Strength 4,3 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 9	kN MPa MPa y 00psi rength

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/_images/top/WebsiteTerms_Active_20333287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.



<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

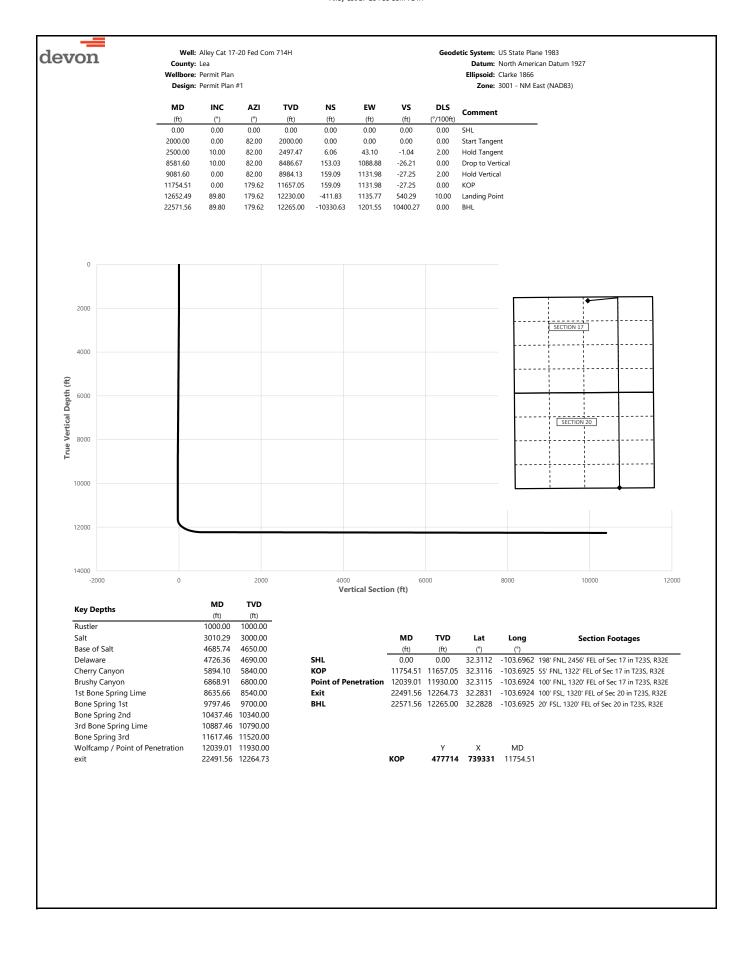
•••	0.100	
Inside Diameter	9.950	in.
Drift	9.875	in.
Weight, T&C	45.500	lbs/ft
Weight, PE	44.260	lbs/ft
Internal Yield Pressure at Minimum Yield		
Collapse	2090	psi
•		•
Internal Yields Pressure		
PE	3580	psi
STC	3580	psi
ВТС	3580	psi
Yield Strength, Pipe Body	715	1000 lbs
Joint Strength, STC		
STC	493	1000 lbs

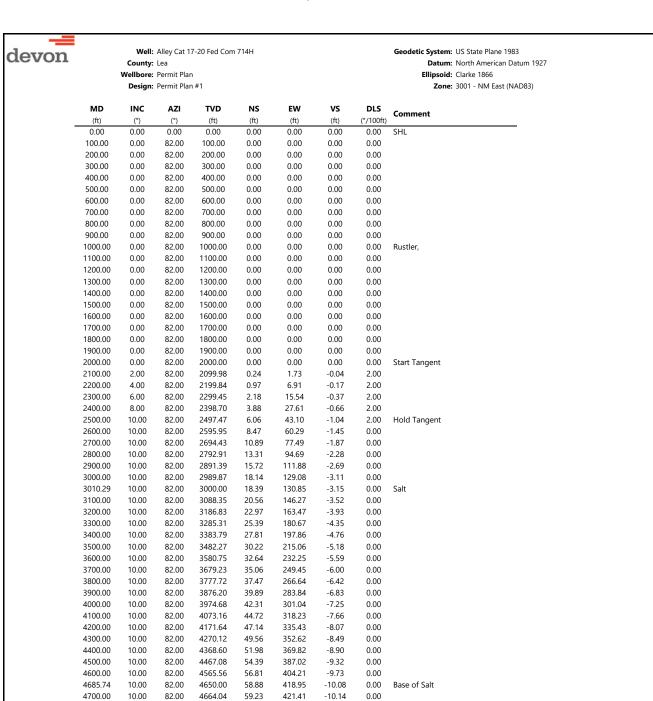
Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

796

1000 lbs

BTC







Well: Alley Cat 17-20 Fed Com 714H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

Zone: 3001 - NM East (NAD83)

	Design:	Permit Plar	1#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6600.00	10.00	82.00	6535.18	105.14	748.13	-18.01	0.00	
6700.00	10.00	82.00	6633.66	107.56	765.32	-18.42	0.00	
6800.00	10.00	82.00	6732.14	109.98	782.52	-18.83	0.00	
6868.91	10.00	82.00	6800.00	111.64	794.37	-19.12	0.00	Brushy Canyon
6900.00	10.00	82.00	6830.62	112.39	799.71	-19.25	0.00	, ,
7000.00	10.00	82.00	6929.10	114.81	816.91	-19.66	0.00	
7100.00	10.00	82.00	7027.58	117.23	834.11	-20.08	0.00	
7200.00	10.00	82.00	7126.06	119.64	851.30	-20.49	0.00	
7300.00	10.00	82.00	7224.54	122.06	868.50	-20.90	0.00	
7400.00	10.00	82.00	7323.02	124.48	885.69	-21.32	0.00	
7500.00	10.00	82.00	7421.50	126.89	902.89	-21.73	0.00	
		82.00	7519.99		920.09	-21.73	0.00	
7600.00	10.00			129.31				
7700.00	10.00	82.00	7618.47	131.73	937.28	-22.56	0.00	
7800.00	10.00	82.00	7716.95	134.14	954.48	-22.97	0.00	
7900.00	10.00	82.00	7815.43	136.56	971.67	-23.39	0.00	
8000.00	10.00	82.00	7913.91	138.98	988.87	-23.80	0.00	
8100.00	10.00	82.00	8012.39	141.39	1006.06	-24.22	0.00	
8200.00	10.00	82.00	8110.87	143.81	1023.26	-24.63	0.00	
8300.00	10.00	82.00	8209.35	146.23	1040.46	-25.04	0.00	
8400.00	10.00	82.00	8307.83	148.64	1057.65	-25.46	0.00	
8500.00	10.00	82.00	8406.31	151.06	1074.85	-25.87	0.00	
8581.60	10.00	82.00	8486.67	153.03	1088.88	-26.21	0.00	Drop to Vertical
8600.00	9.63	82.00	8504.80	153.47	1091.99	-26.28	2.00	
8635.66	8.92	82.00	8540.00	154.27	1097.68	-26.42	2.00	1st Bone Spring Lime
8700.00	7.63	82.00	8603.67	155.56	1106.85	-26.64	2.00	. 5
8800.00	5.63	82.00	8702.99	157.16	1118.28	-26.91	2.00	
8900.00	3.63	82.00	8802.66	158.29	1126.28	-27.11	2.00	
9000.00	1.63	82.00	8902.55	158.93	1130.83	-27.22	2.00	
9081.60	0.00	82.00	8984.13	159.09	1131.98	-27.25	2.00	Hold Vertical
9100.00	0.00	179.62	9002.54	159.09	1131.98	-27.24	0.00	Tiola Vertical
9200.00	0.00	179.62	9102.54	159.09	1131.98	-27.24	0.00	
9300.00								
	0.00	179.62	9202.54	159.09	1131.98	-27.24	0.00	
9400.00	0.00	179.62	9302.54	159.09	1131.98	-27.24	0.00	
9500.00	0.00	179.62	9402.54	159.09	1131.98	-27.24	0.00	
9600.00	0.00	179.62	9502.54	159.09	1131.98	-27.24	0.00	
9700.00	0.00	179.62	9602.54	159.09	1131.98	-27.24	0.00	
9797.46	0.00	179.62	9700.00	159.09	1131.98	-27.24	0.00	Bone Spring 1st
9800.00	0.00	179.62	9702.54	159.09	1131.98	-27.24	0.00	
9900.00	0.00	179.62	9802.54	159.09	1131.98	-27.24	0.00	
10000.00	0.00	179.62	9902.54	159.09	1131.98	-27.24	0.00	
10100.00	0.00	179.62	10002.54	159.09	1131.98	-27.24	0.00	
10200.00	0.00	179.62	10102.54	159.09	1131.98	-27.24	0.00	
10300.00	0.00	179.62	10202.54	159.09	1131.98	-27.24	0.00	
10400.00	0.00	179.62	10302.54	159.09	1131.98	-27.24	0.00	
10437.46	0.00	179.62	10340.00	159.09	1131.98	-27.24	0.00	Bone Spring 2nd
10500.00	0.00	179.62	10402.54	159.09	1131.98	-27.24	0.00	. 5
10600.00	0.00	179.62	10502.54	159.09	1131.98	-27.24	0.00	
10700.00	0.00	179.62	10602.54	159.09	1131.98	-27.24	0.00	
10800.00	0.00	179.62	10702.54	159.09	1131.98	-27.24	0.00	
10887.46	0.00	179.62	10702.34	159.09	1131.98	-27.24	0.00	3rd Bone Spring Lime
10900.00	0.00	179.62	10790.00	159.09	1131.98	-27.24	0.00	ora pone opining time
11000.00	0.00	179.62	10802.54	159.09	1131.98	-27.24 -27.24	0.00	
11100.00	0.00	179.62	11002.54	159.09	1131.98	-27.24	0.00	
11200.00	0.00	179.62	11102.54	159.09	1131.98	-27.24	0.00	
11300.00	0.00	179.62	11202.54	159.09	1131.98	-27.24	0.00	
11400.00	0.00	179.62	11302.54	159.09	1131.98	-27.24	0.00	
11500.00	0.00	179.62	11402.54	159.09	1131.98	-27.24	0.00	
11600.00	0.00	179.62	11502.54	159.09	1131.98	-27.24	0.00	
11617.46	0.00	179.62	11520.00	159.09	1131.98	-27.24	0.00	Bone Spring 3rd
11700.00	0.00	179.62	11602.54	159.09	1131.98	-27.24	0.00	
11754.51	0.00	179.62	11657.05	159.09	1131.98	-27.25	0.00	KOP
11800.00	4.55	179.62	11702.49	157.28	1131.99	-25.45	10.00	
11900.00	14.55	179.62	11800.98	140.72	1132.10	-8.98	10.00	
12000.00	24.55	179.62	11895.10	107.30	1132.32	24.24	10.00	
12039.01	28.45	179.62	11930.00	89.90	1132.44	41.54	10.00	Wolfcamp / Point of Penetration
12100.00	34.55	179.62	11981.98	58.04	1132.65	73.20	10.00	, , , , , , , , , , , , , , , , , , , ,
12200.00	44.55	179.62	12058.99	-5.55	1133.07	136.42	10.00	
12300.00	54.55	179.62	12123.79	-81.55	1133.58	211.96	10.00	
	64.55	179.62	12174.40	-167.64	1133.36	297.55	10.00	
12400 00								
12400.00 12500.00	74.55	179.62	12209.30	-261.22	1134.77	390.57	10.00	



Well: Alley Cat 17-20 Fed Com 714H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

		Design:	Permit Plan	n #1					Zone: 3001 - NM East (NAD83)
1500.00									Comment
126524 8 8 8 8 0 1796 123000									
1270000 889									Landing Point
1200000 89.80									Landing Form
1220000 89.80 179.62 1223.15 1-859.31 131.04 76.33 0.00 13100000 89.80 179.62 1223.15 1-859.31 131.07 857.14 0.00 13100000 89.80 179.62 1223.15 1-859.31 131.05 1857.00 13130000 89.80 179.62 1223.29 1-059.33 114.06 181.85 0.00 13130000 89.80 179.62 1223.29 1-059.33 114.06 181.85 0.00 13130000 89.80 179.62 1223.29 1-059.31 114.06 182.76 0.00 13130000 89.80 179.62 1223.29 1-059.22 114.13 182.76 0.00 13130000 89.80 179.62 1223.37 1-459.22 114.27 187.37 0.00 13130000 89.80 179.62 1223.37 1-459.22 114.27 187.37 0.00 13130000 89.80 179.62 1223.37 1-459.22 114.27 187.37 0.00 13130000 89.80 179.62 1223.37 1-459.22 114.27 187.37 0.00 13130000 89.80 179.62 1223.37 1-459.23 114.40 179.38 1.00 1410000 89.80 179.62 1223.40 1-159.31 114.04 179.38 0.00 1410000 89.80 179.62 1223.51 1-159.31 114.04 179.38 0.00 1410000 89.80 179.62 1223.64 1-159.31 114.05 182.16 0.00 1410000 89.80 179.62 1223.65 1-059.30 114.07 127.99 0.00 1410000 89.80 179.62 1223.67 1-259.30 114.00 2078.59 0.00 14100000 89.80 179.62 1223.67 2-259.30 114.00 2078.59 0.00 14100000 89.80 179.62 1223.67 2-259.30 114.00 2078.59 0.00 14100000 89.80 179.62 1223.67 2-259.30 114.00 2078.59 0.00 14100000 89.80 179.62 1223.69 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.69 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.69 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.69 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.69 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.69 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.69 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.60 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.60 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.60 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1223.60 2-259.20 115.00 2-259.20 115.00 2078.50 0.00 14100000 89.80 179.62 1224.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.20 115.00 2-259.									
130000 89.0									
1310000 89.80 179.62 1221.58 8.993.44 1387.3 985.14 0.00 13130000 89.80 179.62 1222.29 1959.33 140.00 188.95 0.00 13130000 89.80 179.62 1222.29 1959.33 140.00 188.95 0.00 13130000 89.80 179.62 1222.29 1959.32 141.93 182.76 0.00 13130000 89.80 179.62 1223.34 1.159.32 141.93 182.76 0.00 13130000 89.80 179.62 1223.34 1.159.32 144.25 182.65 0.00 13130000 89.80 179.62 1223.34 1.159.32 144.25 182.65 0.00 13130000 89.80 179.62 1223.07 1.459.32 144.27 181.57 0.00 13130000 89.80 179.62 1223.40 1.599.31 144.04 1780.38 0.00 1400000 89.80 179.62 1223.64 1.599.31 144.04 1780.38 0.00 14140000 89.80 179.62 1223.64 1.599.31 144.07 1870.38 0.00 1430000 89.80 179.62 1223.62 1.599.31 144.07 1879.38 0.00 1430000 89.80 179.62 1223.62 1.599.31 144.03 1879.38 0.00 1430000 89.80 179.62 1223.62 1.599.30 144.07 1879.38 0.00 1430000 89.80 179.62 1223.62 1.599.30 144.03 1879.38 0.00 1430000 89.80 179.62 1223.62 1.299.30 144.03 1879.38 0.00 1430000 89.80 179.62 1223.62 1.299.30 144.03 1879.38 0.00 1430000 89.80 179.62 1223.62 1.299.30 144.03 1879.38 0.00 1430000 89.80 179.62 1223.62 1.299.30 144.03 1879.38 0.00 1430000 89.80 179.62 1223.62 1.299.30 144.03 1879.38 0.00 1430000 89.80 179.62 1223.62 1.299.30 144.03 1879.38 0.00 1430000 89.80 179.62 1223.63 1.299.39 144.35 1879.38 0.00 1430000 89.80 179.62 1223.63 1.299.39 144.35 1879.38 0.00 1430000 89.80 179.62 1223.63 1.299.39 144.35 1879.38 0.00 1500000 89.80 179.62 1224.04 1.299.38 185.00 185.00 185.00 185.00 185.00 1879.38 1879.38 1879.39 1879.49 1879.									
1320000 89.80 179.62 1223.93 499.33 1734.04 1084.55 0.00 1340000 89.80 179.62 1223.64 1193.33 1140.72 1283.55 0.00 1350000 89.80 179.62 1223.34 1393.24 114.39 1382.76 0.00 1350000 89.80 179.62 1223.34 1393.25 114.295 182.16 0.00 1350000 89.80 179.62 1223.37 1459.32 114.295 182.16 0.00 1380000 89.80 179.62 1223.40 1599.31 14.407 189.78 0.00 1400000 89.80 179.62 1223.40 1599.31 14.404 1789.38 0.00 1400000 89.80 179.62 1223.46 1999.30 144.60 1899.31 14.404 1789.38 0.00 1400000 89.80 179.62 1223.66 1999.30 14.60 1899.30 14.40 1899.31 14.40 1899.81 0.00 1420000 89.80 179.62 1223.66 1999.30 14.60 1899.30 1899.3									
1330000 8880 17962 122329 105933 114006 183895 0.00 1350000 8890 17962 122329 125332 114139 18276 0.00 1350000 8890 17962 122334 135932 114279 181577 0.00 1370000 8890 17962 122340 159533 114279 181577 0.00 1390000 8890 17962 122340 159533 114274 18138 18007 0.00 1390000 8890 17962 122340 159533 114404 178038 0.00 14100000 8890 17962 122351 18931 114404 178038 0.00 14100000 8890 17962 122351 18931 114404 178038 0.00 14100000 8890 17962 122351 18931 114537 19978 0.00 1430000 8890 17962 122351 18931 114537 19978 0.00 1430000 8890 17962 122352 259530 114670 277799 0.00 1430000 8890 17962 122362 259530 114670 277799 0.00 1430000 8890 17962 122362 259530 114602 227680 0.00 1440000 8890 17962 1223652 259530 114602 227680 0.00 1440000 8890 17962 122362 259530 114602 227680 0.00 1440000 8890 17962 122362 259530 114002 227680 0.00 1440000 8890 17962 122373 245929 114035 257561 0.00 1490000 8890 17962 122369 259528 15080 277442 0.00 1490000 8890 17962 122369 259528 15080 277442 0.00 1490000 8890 17962 122369 259528 15080 277442 0.00 1500000 8890 17962 122369 259528 15080 277442 0.00 1500000 8890 17962 122369 259528 15500 267324 0.00 1500000 8890 17962 122369 259528 15500 267324 0.00 1500000 8890 17962 122404 259527 15580 259528 10500 2000 1500000 8890 17962 122406 259528 15590 259628 0.00 1500000 8890 17962 122406 259528 15590 259628 0.00 1500000 8890 17962 122446 259528 15590 259628 0.00 1500000 8890 17962 122446 259528 15590 259628 0.00 1500000 8890 17962 122446 259528 15590 259628 0.00 1500000 8890 17962 122448 259528 15590 259628 0.00 1500000 8890 17962 122448 259528 15590 259628 0.00 1500000 8890 17962 122448 259528 15590 259628 0.00 1500000 8890 17962 122448 259528 15590 259628 0.00 1500000 8890 17962 122449 259528 15590 259628 0.00 1500000 8890 17962 122449 259529 15590 259628 0.00 1500000 8890 17962 122449 259528 15590 259628 0.00 1500000 8890 17962 122458 259529 15590 25504 0.00 1500000 8890 17962 122458 259529 15590 25504 0.00 1500000 8890 17962 122458 259529 15590 25504 0.00 1500000 8890 17962 122458 259529 15									
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13700.00 89.80 17962 1223370 1459.32 114238 1809.77 0.00 13900.00 89.80 17962 1223440 1659.31 1144.01 1780.38 0.00 14100.00 89.80 17962 1223541 1859.31 1144.01 1787.78 0.00 14100.00 89.80 17962 1223551 1859.31 1144.71 1879.78 0.00 14100.00 89.80 17962 122352 151.059.31 1144.01 1787.89 0.00 14200.00 89.80 17962 122352 151.059.31 1145.01 174.01 177.74 0.00 14200.00 89.80 17962 122352 2599.30 1146.01 2075.74 0.00 14300.00 89.80 17962 122352 2599.30 1146.01 2075.01 174.0	13500.00	89.80	179.62	12232.99	-1259.32	1141.39	1382.76	0.00	
13800.00 89.80 17962 12234.05 1759.32 1143.8 1880.97 0.00 14000.00 89.80 17962 12234.76 1759.31 1144.71 1879.78 0.00 14000.00 89.80 17962 12235.11 1893.1 1143.71 1879.78 0.00 14000.00 89.80 17962 12235.11 1893.1 1145.37 1979.18 0.00 14000.00 89.80 17962 12235.28 293.91 1146.02 2078.59 0.00 14000.00 89.80 17962 12236.12 2159.30 1147.36 277.40 0.00 14000.00 89.80 17962 12236.27 2259.30 1146.02 2376.80 0.00 14000.00 89.80 17962 12237.23 2459.29 1148.03 2376.80 0.00 14000.00 89.80 17962 12237.23 2459.29 1148.03 2575.61 0.00 14000.00 89.80 17962 12237.23 2459.29 1145.00 277.44 0.00 14000.00 89.80 17962 12237.23 2459.29 1145.32 2575.61 0.00 14000.00 89.80 17962 12237.23 2459.29 1150.01 2675.01 0.00 14000.00 89.80 17962 12237.23 2459.29 1150.01 2675.01 0.00 151000.00 89.80 17962 12236.4 2899.28 1150.00 2675.01 0.00 151000.00 89.80 17962 12236.4 2899.28 1152.67 307.24 0.00 151000.00 89.80 17962 12236.4 2899.28 1152.67 307.24 0.00 151000.00 89.80 17962 12236.4 2899.28 1152.67 307.24 0.00 151000.00 89.80 17962 12240.0 2899.28 1152.67 307.24 0.00 151000.00 89.80 17962 12240.0 3399.27 1153.3 3172.03 0.00 151000.00 89.80 17962 12240.0 3399.27 1153.9 321.44 0.00 15000.00 89.80 17962 12240.0 3399.27 1153.29 370.44 0.00 15000.00 89.80 17962 12240.0 3399.27 1153.29 370.40 15000.00 89.80 17962 12241.0 3599.26 1155.20 300.0 15000.00 89.80 17962 12241.0 3599.26 1155.20 300.0 15000.00 89.80 17962 12241.0 3599.26 1155.20 300.0 15000.00 89.80 17962 12241.0 3599.26 1155.20 300.0 15000.00 89.80 17962 12241.0 3599.26 1155.20 300.0 15000.00 89.80 17962 12241.0 3599.26 1156.50 360.00 15000.00 89.80 17962 12241.0 3599.26 1156.60 310.00 15000.00 89.80 17962 12241.0 3599.26 1156.50 360.00 15000.00 89.80 17962 12241.0 3599.26 1156.00 310.00 15000.00 89.80 17962 12241.0 3599.26 1156.00 310.00 15000.00 89.80 17962 12241.0 3599.20 1166.00 310.00 15000.00 89.80 17962 12241.0 3599.20 1166.00 310.00 170000.00 89.80 17962 12241.0 3599.20 1166.00 310.00 170000.00 89.80 17962 12241.0 3599.20 1166.00 310.00 170000.00 89.80 17962 12241.0 3599.20 1166.00	13600.00	89.80	179.62	12233.34	-1359.32	1142.05	1482.16	0.00	
13900.00	13700.00	89.80	179.62	12233.70	-1459.32	1142.72	1581.57	0.00	
1400000 89.80 17962 1223476 1759.31 114371 1879.78 0.00 1420000 89.80 17962 1223545 1959.30 1146.03 2078.59 0.00 1420000 89.80 17962 1223652 2259.30 1146.02 2376.80 0.00 1430000 89.80 17962 1223657 2599.30 1146.02 2376.80 0.00 1440000 89.80 17962 1223657 2599.30 1146.02 2376.80 0.00 1470000 89.80 17962 1223657 2599.30 1146.02 2376.80 0.00 1470000 89.80 17962 12237.32 2459.39 1148.02 2376.80 0.00 1470000 89.80 17962 12237.32 2459.39 1148.02 2376.80 0.00 1490000 89.80 17962 12237.32 2459.39 1149.02 2376.80 0.00 1490000 89.80 17962 12237.32 2459.39 1149.02 2376.80 0.00 1490000 89.80 17962 12237.39 2599.38 1150.01 2675.01 0.00 1490000 89.80 17962 12237.39 2599.38 1150.01 2675.01 0.00 1490000 89.80 17962 1223864 2859.28 1150.01 2675.01 0.00 1490000 89.80 17962 1223864 2859.28 1150.02 2673.23 0.00 15100000 89.80 17962 1223864 2859.28 1152.67 3076.24 0.00 1550000 89.80 17962 12240.03 2359.27 1153.31 2370.44 0.00 1550000 89.80 17962 12240.05 2359.27 1153.39 3370.44 0.00 1550000 89.80 17962 12240.05 2359.27 1153.99 3271.44 0.00 1500000 89.80 17962 12240.05 2359.27 1153.99 3271.44 0.00 1500000 89.80 17962 12240.05 2359.27 1153.99 367.68 0.00 1500000 89.80 17962 12241.11 3599.26 1155.09 367.66 0.00 1500000 89.80 17962 12241.28 2495.24 1559.99 350.00 1500000 89.80 17962 12242.28 2959.25 1153.04 265.00 1600000 89.80 17962 12242.28 2495.24 1616.29 4648.99 0.00 1600000 89.80 17962 12243.33 4459.24 1161.62 4642.9 0.00 1600000 89.80 17962 12243.39 4599.24 1161.62 4642.9 0.00 1600000 89.80 17962 12244.29 4599.25 1163.04 166.00 0.00 1700000 89.80 17962 12244.29 4599.21 1162.24 4642.9 0.00 1700000 89.80 17962 12244.29 4599.21 1162.24 4642.9 0.00 1700000 89.80 17962 12244.29 4599.21 1162.24 4642.9 0.00 1700000 89.80 17962 12245.24 599.91 1179.19 5955.35 0.00 1700000 89.80 17962 12245.24 599.91 1179.19 5955.35 0.00 1700000 89.80 17962 12246.44 45592.3 1162.24 466.91 0.00 1700000 89.80 17962 12247.81 5459.21 1162.91 5657.74 0.00 1700000 89.80 17962 12247.82 5459.21 1163.91 5657.74 0.00 1700000 89.80 17962 12247.81 5459.21 1163.91 565	13800.00	89.80	179.62	12234.05	-1559.32	1143.38	1680.97	0.00	
14100.00	13900.00	89.80	179.62	12234.40	-1659.31	1144.04	1780.38	0.00	
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1440000 89.80 1796.2 12236.17 - 21593.0 1147.36 2277.40 0.00 14600.00 89.80 1796.2 12236.27 - 2359.29 1148.69 2476.20 0.00 14600.00 89.80 1796.2 12237.23 - 2459.29 1148.69 2476.20 0.00 14900.00 89.80 1796.2 12237.23 - 2459.29 1150.01 2675.01 0.00 14900.00 89.80 1796.2 12237.93 - 2659.28 1150.06 2774.42 0.00 15100.00 89.80 1796.2 12238.93 - 2595.28 1150.00 2675.01 0.00 15100.00 89.80 1796.2 12238.93 - 2595.28 1152.67 307.83 0.00 15100.00 89.80 1796.2 12238.93 - 2595.28 1152.67 3072.63 0.00 15100.00 89.80 1796.2 12238.93 - 2595.28 1152.67 3072.63 0.00 15300.00 89.80 1796.2 12239.93 - 3595.27 1153.93 2371.44 0.00 15500.00 89.80 1796.2 12240.03 - 3592.97 1153.99 3271.44 0.00 15700.00 89.80 1796.2 12240.03 - 3592.97 1153.99 3271.44 0.00 15700.00 89.80 1796.2 12240.03 - 3592.97 1153.99 3271.44 0.00 15700.00 89.80 1796.2 12240.03 - 3592.97 1153.99 377.44 0.00 15700.00 89.80 1796.2 12240.03 - 3592.97 1153.99 3667.86 0.00 15700.00 89.80 1796.2 12241.63 - 3592.26 1155.73 8569.05 0.00 15700.00 89.80 1796.2 12241.63 - 3592.25 1155.73 8708.45 0.00 16000.00 89.80 1796.2 12241.82 - 3759.25 1157.31 3768.45 0.00 16000.00 89.80 1796.2 12241.82 - 3759.25 1157.31 3768.45 0.00 16000.00 89.80 1796.2 12241.82 - 3759.25 1158.64 367.04 0.00 16000.00 89.80 1796.2 12241.82 - 3859.25 1159.91 4166.03 4265.48 0.00 16000.00 89.80 1796.2 12241.82 - 3859.25 1159.91 4166.03 4265.48 0.00 16000.00 89.80 1796.2 12242.83 - 4592.24 1161.29 4464.29 0.00 16000.00 89.80 1796.2 12244.83 - 4592.23 1162.26 4563.99 0.00 17000.00 89.80 1796.2 12244.85 - 4592.21 1161.29 4661.91 0.00 17000.00 89.80 1796.2 12244.85 - 2595.22 1165.94 666.31 0.00 17000.00 89.80 1796.2 12244.85 - 2595.21 1162.62 4563.99 0.00 17000.00 89.80 1796.2 12244.85 - 2595.21 1162.62 4563.99 0.00 17000.00 89.80 1796.2 12244.85 - 2595.21 1162.65 4563.99 0.00 17000.00 89.80 1796.2 12244.85 - 2595.21 1169.95 466.31 0.00 17000.00 89.80 1796.2 12244.85 - 2595.21 1162.65 4563.99 0.00 17000.00 89.80 1796.2 12248.91 - 3595.21 1162.65 4563.99 0.00 17000.00 89.80 1796.2 12248.91 - 3595.21 1162.65 456		89.80	179.62		-1959.30	1146.03	2078.59	0.00	
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17000.00 89.80 179.62 12245.35 -4759.23 1164.61 4861.91 0.00 17100.00 89.80 179.62 12245.70 -4859.22 1165.27 4961.31 0.00 17200.00 89.80 179.62 12246.05 -4959.22 1165.94 5060.71 0.00 17300.00 89.80 179.62 12246.64 -5059.22 1166.60 5160.12 0.00 17500.00 89.80 179.62 12247.11 -5259.21 1167.26 5259.52 0.00 17600.00 89.80 179.62 12247.12 -5259.21 1168.59 5458.33 0.00 17700.00 89.80 179.62 12247.82 -5459.21 1169.25 5557.74 0.00 17800.00 89.80 179.62 12248.81 -7559.20 1170.58 5756.54 0.00 18000.00 89.80 179.62 12249.58 -5859.19 1171.24 5855.95 0.00 18200.00 89.80 179.62 12249.	16800.00	89.80	179.62	12244.64	-4559.23	1163.28	4663.10	0.00	
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17200.00 89.80 179.62 12246.05 -4959.22 1165.94 5060.71 0.00 17300.00 89.80 179.62 12246.41 -5059.22 1166.60 5160.12 0.00 17400.00 89.80 179.62 12247.11 -5259.21 1167.93 5358.93 0.00 17500.00 89.80 179.62 12247.46 -5359.21 1167.93 5358.93 0.00 17700.00 89.80 179.62 12247.46 -5359.21 1169.92 5557.74 0.00 17800.00 89.80 179.62 12248.87 -5559.20 1169.92 5657.14 0.00 17900.00 89.80 179.62 12248.82 -5659.20 1170.58 5756.54 0.00 18000.00 89.80 179.62 12249.84 -5759.20 1171.24 5855.95 0.00 18200.00 89.80 179.62 12249.94 -6059.19 1172.57 6054.76 0.00 18300.00 89.80 179.62 12250.		89.80	179.62	12245.35	-4759.23	1164.61	4861.91	0.00	
17300.00 89.80 179.62 12246.41 -5059.22 1166.60 5160.12 0.00 17400.00 89.80 179.62 12246.76 -5159.21 1167.26 5259.52 0.00 17500.00 89.80 179.62 12247.41 -5259.21 1168.59 5358.93 0.00 17600.00 89.80 179.62 12247.82 -5459.21 1168.59 5458.33 0.00 17800.00 89.80 179.62 12248.81 -5559.20 1169.92 5657.14 0.00 17900.00 89.80 179.62 12248.82 -5659.20 1170.58 5756.54 0.00 18000.00 89.80 179.62 12248.88 -5759.20 1171.24 5855.95 0.00 18100.00 89.80 179.62 12249.23 -5859.19 1172.57 6054.76 0.00 18200.00 89.80 179.62 12249.94 -6059.19 1173.24 6154.16 0.00 18500.00 89.80 179.62 12250.									
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19400.00 89.80 179.62 12253.82 -7159.16 1180.53 7247.61 0.00									



Well: Alley Cat 17-20 Fed Com 714H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19500.00	89.80	179.62	12254.17	-7259.15	1181.20	7347.01	0.00	
19600.00	89.80	179.62	12254.52	-7359.15	1181.86	7446.42	0.00	
19700.00	89.80	179.62	12254.88	-7459.15	1182.52	7545.82	0.00	
19800.00	89.80	179.62	12255.23	-7559.15	1183.19	7645.22	0.00	
19900.00	89.80	179.62	12255.58	-7659.14	1183.85	7744.63	0.00	
20000.00	89.80	179.62	12255.94	-7759.14	1184.51	7844.03	0.00	
20100.00	89.80	179.62	12256.29	-7859.14	1185.18	7943.44	0.00	
20200.00	89.80	179.62	12256.64	-7959.14	1185.84	8042.84	0.00	
20300.00	89.80	179.62	12256.99	-8059.13	1186.51	8142.25	0.00	
20400.00	89.80	179.62	12257.35	-8159.13	1187.17	8241.65	0.00	
20500.00	89.80	179.62	12257.70	-8259.13	1187.83	8341.05	0.00	
20600.00	89.80	179.62	12258.05	-8359.12	1188.50	8440.46	0.00	
20700.00	89.80	179.62	12258.41	-8459.12	1189.16	8539.86	0.00	
20800.00	89.80	179.62	12258.76	-8559.12	1189.82	8639.27	0.00	
20900.00	89.80	179.62	12259.11	-8659.12	1190.49	8738.67	0.00	
21000.00	89.80	179.62	12259.47	-8759.11	1191.15	8838.08	0.00	
21100.00	89.80	179.62	12259.82	-8859.11	1191.81	8937.48	0.00	
21200.00	89.80	179.62	12260.17	-8959.11	1192.48	9036.88	0.00	
21300.00	89.80	179.62	12260.52	-9059.10	1193.14	9136.29	0.00	
21400.00	89.80	179.62	12260.88	-9159.10	1193.80	9235.69	0.00	
21500.00	89.80	179.62	12261.23	-9259.10	1194.47	9335.10	0.00	
21600.00	89.80	179.62	12261.58	-9359.10	1195.13	9434.50	0.00	
21700.00	89.80	179.62	12261.94	-9459.09	1195.79	9533.90	0.00	
21800.00	89.80	179.62	12262.29	-9559.09	1196.46	9633.31	0.00	
21900.00	89.80	179.62	12262.64	-9659.09	1197.12	9732.71	0.00	
22000.00	89.80	179.62	12263.00	-9759.08	1197.78	9832.12	0.00	
22100.00	89.80	179.62	12263.35	-9859.08	1198.45	9931.52	0.00	
22200.00	89.80	179.62	12263.70	-9959.08	1199.11	10030.93	0.00	
22300.00	89.80	179.62	12264.05	-10059.08	1199.77	10130.33	0.00	
22400.00	89.80	179.62	12264.41	-10159.07	1200.44	10229.73	0.00	
22491.56	89.80	179.62	12264.73	-10250.63	1201.05	10320.75	0.00	exit
22500.00	89.80	179.62	12264.76	-10259.07	1201.10	10329.14	0.00	
22571.56	89.80	179.62	12265.00	-10330.63	1201.55	10400.27	0.00	BHL

2/21/2024 7:47:29 AM

U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

P110 HP USS-CDC HTQ®

		Y		
MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]		
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-CDC HTQ [®]		
Outside Diameter	5.500	6.300	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-CDC HTQ [®]		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		97.0	%	
PERFORMANCE	Pipe	USS-CDC HTQ [®]		
Minimum Collapse Pressure	13,150	13,150	psi	
External Pressure Leak Resistance		10,520	psi	
Minimum Internal Yield Pressure	14,360	14,360	psi	
Minimum Pipe Body Yield Strength	729,000		lb	
Joint Strength		707,000	lb	
Compression Rating		424,000	lb	
Reference Length		23,567	ft	
Maximum Uniaxial Bend Rating		60.6	deg/100 ft	
MAKE-UP DATA	Pipe	USS-CDC HTQ [®]		
Make-Up Loss		4.63	in.	
Minimum Make-Up Torque		14,500	ft-lb	
Maximum Make-Up Torque		20,500	ft-lb	
Connection Yield Torque		25,300	ft-lb	

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g., make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
- 5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

Legal Notice

USS - CDC HTQ[®] (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

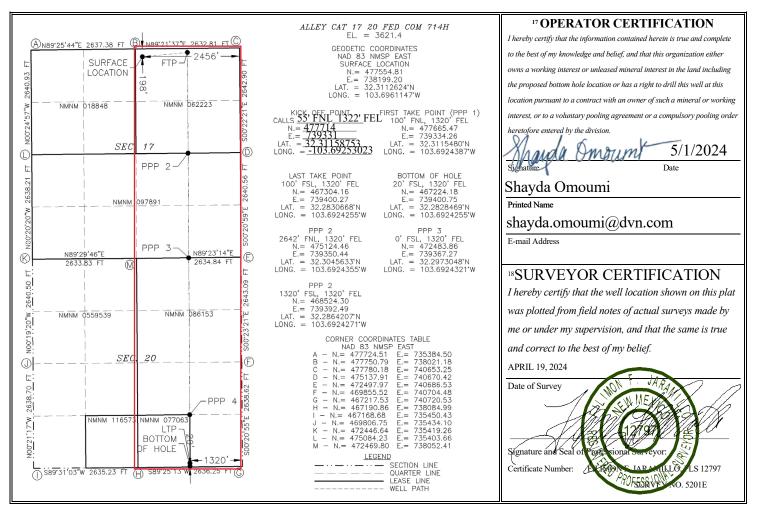
¹ API Numbe	er	² Pool Code					
		98248	JPR WC				
⁴ Property Code		⁵ Property Name					
		ALLEY CA	T 17 20 FED COM	714H			
⁷ OGRID No.		8 O _l	perator Name	⁹ Elevation			
6137		DEVON ENERGY PRO	ODUCTION COMPANY, L.P.	3621.4			

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		
В	17	23 S	32 E		198	NORTH	2456	EAST	LEA		
" Bottom Hole Location If Different From Surface											

UL or lot no.	Section 20	Township 23 S	Range 32 E	Lot Idn	Feet from the 20	North/South line SOUTH	Feet from the 1320	East/West line EAST	County LEA
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.



Inten	t X	As Dril	led											
API#	:													
DE\	rator Nai /ON EN MPANY	IERGY F	PRODUC	CTION	N	-	erty N EY C) FED	CO	M		Well Number 714H
														I
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	ı E/W	County	
В	17	23S	32E		55		NOR	TH	1322		Е	AST	LEA	
Latitu 32.311	ude .58753				Longitu -103.69		3						NAD 83	
First 7	Take Poir	nt (FTP)												
UL	Section	Township 23S	Range 32E	Lot	Feet		From N		Feet			n E/W	County	
B Latitu	17	238	32E		100 Longitu		NORT	П	132	U	EAS)	LEA NAD	
	311548	0			103.6		387						83	
UL O	Section 20	t (LTP) Township 23S	Range 32E	Lot	Feet 100		n N/S UTH	Feet 132		From I	-	Count LEA	ty	
Latitu 32.2	ude 283066	8			Longitu 103.6		255					NAD 83		
ls this	s well the	defining v	vell for th	e Hori:	zontal Sp	oacing	g Unit?		Υ					
Is this	s well an	infill well?		N										
	ll is yes p ng Unit.	lease prov	ide API if	availak	ole, Oper	rator	Name a	and v	vell n	umber	for [Definiı	ng well fo	r Horizontal
API#	;													
Ope	rator Nai	me:				Prop	erty N	ame						Well Number

KZ 06/29/2018

1. Geologic Formations

TVD of target	12265	Pilot hole depth	N/A
MD at TD:	22572	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1000		
Salt	3000		
Base of Salt	4650		
Delaware	4690		
Cherry Canyon	5840		
Brushy Canyon	6800		
1st Bone Spring Lime	8540		
Bone Spring 1st	9700		
Bone Spring 2nd	10340		
3rd Bone Spring Lime	10790		
Bone Spring 3rd	11520		
Wolfcamp	11930		

^{*}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	de Conn From (MD)		To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	1025	0	1025
9 7/8	8 5/8	32	P110HSCY	MOFXL	0	11655	0	11655
7 7/8	5 1/2	20	P110HP	CDC-HTQ	0	22572	0	12265

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

3. Cementing Program (Primary Design)

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. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	618	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	476	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	555	6868	13.2	1.44	Tail: Class H / C + additives
Production	117	9755	9	3.27	Lead: Class H /C + additives
Production	1432	11755	13.2	1.44	Tail: Class H / C + additives

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

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

4. Pressure Control Equipment (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																								
IIIt I	13-3/6	3101	Pipe Ram			5M																						
			Double Ram		X	3101																						
			Other*																									
	13-5/8"		Annular (5M)		X	100% of rated working pressure																						
Production		10M	Blind Ram		X																							
Floduction		TOIVI	TOW	TOW	1011	1011	1011	1011	TOW	1011	10111	10111	1011	10111	TOIVI	1011	1011	1011	1011	10101	TOWI	10111	TOWI	TOWI	Pipe	Ram		10M
					Doub	le Ram	X	TOW																				
			Other*																									
			Annular (5M)																									
			Bline	d Ram																								
			Pipe	Ram		7																						
			Double Ram]																						
			Other*			1																						
N A variance is requested for	the use of	a diverter o	n the surface	e 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,	Logging, Coring and Testing					
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the					
X	Completion Report and shumitted to the BLM.					
	No logs are planned based on well control or offset log information.					
	Drill stem test? If yes, explain.					
	Coring? If yes, explain.					

Additional	logs planned	Interval		
	Resistivity	Int. shoe to KOP		
	Density	Int. shoe to KOP		
X	CBL	Production casing		
X	Mud log	Intermediate shoe to TD		
	PEX			

7. Drilling Conditions

7. Dining conditions	
Condition	Specfiy what type and where?
BH pressure at deepest TVD	6697
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

circountere	a measured variety and formations will be provided to the BEN.
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 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.

Attachme	ents
X	Directional Plan
	Other, describe

Alley Cat 17-20 Fed Com 714H

10 3/4	surfa	ce csg in a	14 3/4 i	nch hole.		<u>Design</u>	Factors			Surface	:	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	45.50		j 55	btc	12.94	3.68	0.56	1,215	7	0.94	6.95	55,28
"B"				btc				0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	1,215	_			55,28
omparison o	f Proposed to Mini	mum Required Cem	ent Volumes_									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Di
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
14 3/4	0.5563	618	890	676	32	9.00	3793	5M				1.50
Burst Frac Grad	dient(s) for Segmen	t(s) A, B = , b All > 0	0.70, OK.									
									,			
8 5/8	casing	inside the	10 3/4			<u>Design</u>	Factors -		7	Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigl
"A"	32.00		p 110	mo-fxl	2.12	0.68	0.93	11,655	1	1.57	1.13	372,96
"B"			·					0				0
	w/8.4#/g	nud, 30min Sfc Csg Test	psig: -711				Totals:	11,655	-			372,96
		The cement	volume(s) are intend	led to achieve a top of	0	ft from su	rface or a	1215				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Di
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
9 7/8	0.1261	555	799	1480	-46	10.50	3992	5M				0.63
O V Tool(s):			6800				sum of sx	Σ CuFt				Σ%exce
by stage %:		31	26				1031	1894				28
Class 'C' tail cm	nt vld > 1.35											
	dient(s) for Segmen	t(s): A, B, C, D = 0.54,	b, c, d <0.70 a Prob	lem!!					,			
Tail cmt									,			
5 1/2			8 5/8									
		inside the	0.0,0			Design Fa			50	Prod 1		NA ()
	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	а-В	a-C	
"A"	#/ft 20.00	•	p 110	Coupling cdc-htq	Joint 2.61			22,572	B@s			451,44
	20.00	Grade	p 110			Collapse	Burst 1.89	22,572 0		а-В	a-C	451,44 0
"A"	20.00	Grade mud, 30min Sfc Csg Test	p 110 psig: 2,698	cdc-htq	2.61	Collapse 1.82	Burst 1.89 Totals:	22,572 0 22,572		a-B	a-C	451,44 0 451,44
"A" "B"	20.00 w/8.4#/g	Grade mud, 30min Sfc Csg Test The cement	p 110 psig: 2,698 volume(s) are intence	cdc-htq	2.61	Collapse 1.82	Burst 1.89 Totals:	22,572 0 22,572 200		a-B	a-C	451,44 0 451,44 overlap.
"A" "B"	20.00 w/8.4#/g Annular	Grade mud, 30min Sfc Csg Test The cement 1 Stage	p 110 psig: 2,698 volume(s) are intenc	cdc-htq led to achieve a top of Min	2.61 11455 1 Stage	Collapse 1.82 ft from su Drilling	Burst 1.89 Totals: rface or a Calc	22,572 0 22,572 200 Req'd		a-B	a-C	451,44 0 451,44 overlap . Min Dis
"A" "B" Hole Size	20.00 w/8.4#/g Annular Volume	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,698 volume(s) are intenc 1 Stage CuFt Cmt	cdc-htq led to achieve a top of Min Cu Ft	2.61 11455 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 1.89 Totals:	22,572 0 22,572 200		a-B	a-C	451,44 0 451,44 overlap . Min Dis Hole-Cr
"A" "B" Hole Size 7 7/8	20.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test The cement 1 Stage	p 110 psig: 2,698 volume(s) are intenc	cdc-htq led to achieve a top of Min	2.61 11455 1 Stage	Collapse 1.82 ft from su Drilling	Burst 1.89 Totals: rface or a Calc	22,572 0 22,572 200 Req'd		a-B	a-C	451,44 0 451,44 overlap . Min Di
"A" "B" Hole Size 7 7/8	20.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,698 volume(s) are intenc 1 Stage CuFt Cmt	cdc-htq led to achieve a top of Min Cu Ft	2.61 11455 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 1.89 Totals: rface or a Calc	22,572 0 22,572 200 Req'd		a-B	a-C	451,44 0 451,44 overlap. Min Di: Hole-Cr
"B" Hole Size 7 7/8 Class 'C' tail cm	20.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,698 volume(s) are intenc 1 Stage CuFt Cmt	cdc-htq led to achieve a top of Min Cu Ft	2.61 11455 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 1.89 Totals: rface or a Calc	22,572 0 22,572 200 Req'd		a-B	a-C	451,44 0 451,44 overlap . Min Dis Hole-Cr
"A" "B" Hole Size 7 7/8 Class 'C' tail cm	20.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,698 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq led to achieve a top of Min Cu Ft	2.61 11455 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Burst 1.89 Totals: rface or a Calc MASP	22,572 0 22,572 200 Req'd	2	a-B 3.17	a-C 3.06	451,44 overlap. Min Dis Hole-Cp
"A" "B" Hole Size 7 7/8 Class 'C' tail cm	20.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,698 volume(s) are intenc 1 Stage CuFt Cmt	cdc-htq led to achieve a top of Min Cu Ft	2.61 11455 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 1.89 Totals: rface or a Calc MASP	22,572 0 22,572 200 Req'd	2	a-B 3.17 Choose Ca	a-C 3.06	451,44 0 451,44 overlap. Min Di: Hole-Cr
"A" "B" Hole Size 7 7/8 Class 'C' tail cm	20.00 w/8.4#/g Annular Volume 0.1733 at yld > 1.35	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1549	p 110 psig: 2,698 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq led to achieve a top of Min Cu Ft 1927	2.61 11455 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Burst 1.89 Totals: rface or a Calc MASP	22,572 0 22,572 200 Req'd BOPE	2	a-B 3.17 Choose Ca	a-C 3.06	451,44 0 451,44 overlap. Min Di: Hole-Cp 0.79
"A" "B" Hole Size 7 7/8 class 'C' tail cm #N/A 0 Segment	20.00 w/8.4#/g Annular Volume 0.1733 at yld > 1.35	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1549	p 110 psig: 2,698 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq led to achieve a top of Min Cu Ft 1927 Coupling	2.61 11455 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Burst 1.89 Totals: rface or a Calc MASP	22,572 0 22,572 200 Req'd BOPE	2	a-B 3.17	a-C 3.06	451,44 0 451,44 overlap. Min Di Hole-C ₁ 0.79
"A" "B" Hole Size 7 7/8 class 'C' tail cm #N/A 0 Segment "A"	20.00 w/8.4#/g Annular Volume 0.1733 at yld > 1.35	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1549 Grade	p 110 psig: 2,698 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq led to achieve a top of Min Cu Ft 1927 Coupling 0.00	2.61 11455 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Burst 1.89 Totals: rface or a Calc MASP	22,572 0 22,572 200 Req'd BOPE	2	a-B 3.17	a-C 3.06	451,44 0 451,44 overlap. Min Di Hole-C 0.79 Weigl
"A" "B" Hole Size 7 7/8 lass 'C' tail cm #N/A 0 Segment "A"	20.00 w/8.4#/g Annular Volume 0.1733 at yld > 1.35	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1549 Grade	p 110 psig: 2,698 volume(s) are intenc 1 Stage CuFt Cmt 2445 5 1/2	cdc-htq led to achieve a top of Min Cu Ft 1927 Coupling 0.00 0.00	2.61 11455 1 Stage % Excess 27 #N/A	tt from su Drilling Mud Wt 10.50 Design Collapse	Burst 1.89 Totals: rface or a Calc MASP Factors Burst Totals:	22,572 0 22,572 200 Req'd BOPE	2	a-B 3.17	a-C 3.06	451,44 0 451,44 overlap. Min Di Hole-C 0.79 Weig 0 0
"A" "B" Hole Size 7 7/8 class 'C' tail cm #N/A 0 Segment "A" "B"	20.00 w/8.4#/g Annular Volume 0.1733 at yld > 1.35 #/ft w/8.4#/g	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1549 Grade mud, 30min Sfc Csg Test Cmt vol of	p 110 psig: 2,698 volume(s) are intend 1 Stage CuFt Cmt 2445 5 1/2	cdc-htq led to achieve a top of Min Cu Ft 1927 Coupling 0.00 0.00 his csg, TOC intended	2.61 11455 1 Stage % Excess 27 #N/A	Collapse 1.82 ft from su Drilling Mud Wt 10.50 Design Collapse	Burst 1.89 Totals: rface or a Calc MASP Factors Burst Totals: rface or a	22,572 0 22,572 200 Req'd BOPE Length 0 0 0	2	a-B 3.17	a-C 3.06	451,44 0 451,44 overlap. Min Di Hole-Ci 0.79 Weigi 0 0 overlap.
"A" "B" Hole Size 7 7/8 Class 'C' tail on #N/A 0 Segment "A" "B"	20.00 w/8.4#/g Annular Volume 0.1733 nt yld > 1.35 #/ft w/8.4#/g Annular	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1549 Grade mud, 30min Sfc Csg Test Cmt vol 0 1 Stage	p 110 psig: 2,698 volume(s) are intend 1 Stage CuFt Cmt 2445 5 1/2 psig: alc below includes the stage of t	cdc-htq led to achieve a top of Min Cu Ft 1927 Coupling 0.00 0.00 his csg, TOC intended Min	2.61 11455 1 Stage % Excess 27 #N/A #N/A	tt from su Drilling Mud Wt 10.50 Design Collapse	Burst 1.89 Totals: rface or a Calc MASP Factors Burst Totals: rface or a Calc	22,572 0 22,572 200 Req'd BOPE Length 0 0 0 #N/A Req'd	2	a-B 3.17	a-C 3.06	451,44 0 451,44 overlap. Min Di Hole-Cj 0.79 Weigl 0 0 overlap. Min Di
"A" "B" Hole Size 7 7/8 class 'C' tail cm #N/A 0 Segment "A" "B"	20.00 w/8.4#/g Annular Volume 0.1733 at yld > 1.35 #/ft w/8.4#/g	Grade mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1549 Grade mud, 30min Sfc Csg Test Cmt vol of	p 110 psig: 2,698 volume(s) are intend 1 Stage CuFt Cmt 2445 5 1/2	cdc-htq led to achieve a top of Min Cu Ft 1927 Coupling 0.00 0.00 his csg, TOC intended	2.61 11455 1 Stage % Excess 27 #N/A	Collapse 1.82 ft from su Drilling Mud Wt 10.50 Design Collapse	Burst 1.89 Totals: rface or a Calc MASP Factors Burst Totals: rface or a	22,572 0 22,572 200 Req'd BOPE Length 0 0 0	2	a-B 3.17	a-C 3.06	451,44 0 451,44 overlap. Min Di Hole-C ₁ 0.79 Weigl 0 0

Carlsbad Field Office 5/15/2024

Capitan Reef est top XXXX.

#N/A

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District II

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 344726

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	344726
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	ALL PREVIOUS COA'S APPLY	5/21/2024