Form 3160-3 (June 2015) UNITED STATES	5	FORM APPR OMB No. 100 Expires: January	4-0137		
DEPARTMENT OF THE I BUREAU OF LAND MANA	NTERIOR	5. Lease Serial No.			
APPLICATION FOR PERMIT TO D	6. If Indian, Allotee or Tri	be Name			
1a. Type of work: DRILL RI	EENTER	7. If Unit or CA Agreeme	nt, Name and No.		
1b. Type of Well: Oil Well Gas Well Oil	ther				
1c. Type of Completion: Hydraulic Fracturing Si	ingle Zone Multiple Zone	8. Lease Name and Well I	No.		
2. Name of Operator		9. API Well No. 30-02	5-52836		
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exp	oloratory		
4. Location of Well (Report location clearly and in accordance v	with any State requirements.*)	11. Sec., T. R. M. or Blk.	and Survey or Area		
At surface					
At proposed prod. zone					
14. Distance in miles and direction from nearest town or post offi	ice*	12. County or Parish	13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 17. Space	ing Unit dedicated to this we	:11		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 20. BLN	I/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration			
	24. Attachments	L			
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule pe	r 43 CFR 3162.3-3		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office 	Item 20 above). m Lands, the 5. Operator certification.	ons unless covered by an exist			
25. Signature	Name (Printed/Typed)	Date			
Title	I	I			
Approved by (Signature)	Name (Printed/Typed)	Date			
Title Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	Office at holds legal or equitable title to those right	s in the subject lease which v	vould entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of			partment or agency		



(Continued on page 2)

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<u>District I</u> 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 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

		W	ELL LO	DCATIO	N AND ACR	EAGE DEDIC	CATION PLA	Т		
¹ API Number ² Pool Co 30-025-52836 [98248]					³ Pool Name WC-025 G-08 S243217P;UPR WC					
⁴ Property (332757	Code			FLOOF	⁵ Property Name FY CAT 21-16 FED STATE COM				⁶ Well Number 732H	
⁷ OGRID No. 6137 DEVON E					⁸ Operator Name CRGY PRODUCTION COMPANY, L.P.				⁹ Elevation 3683.5	
					[™] Surfac	e Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Ν	21	23 S	32 E		350	SOUTH	2340	WEST	LEA	
			11 H	Bottom H	ole Location	If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
С	16	23 S	32 E		20	NORTH	2310	WEST	LEA	
² Dedicated Acre 320	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.

	N89°25'27"E 2643.70 F N89°25'35"E 2640.19 FT	¹⁷ OPERATOR CERTIFICATION
NW CORNER SEC. 16 LAT. = 32.3118416'N 됴		CORNER SEC. 16 = 32.3118987'N
LONG. = 103.6881673W _	$BOTTOM _ / N LONG. = 103.6796121'W LONG$	5. = 103.6710683'W to the best of my knowledge and belief, and that this organization either
NMSP EAST (FT) 🖓 N = 477780.18 📩	NMSP EASI (FII) = 100000000000000000000000000000000000	 P EAST (FT) 477833.18 owns a working interest or unleased mineral interest in the land including
E = 740653.25 ∾	$= \frac{E}{BOTTOM OF HOLE} = \frac{E}{LAST TAKE POINT} = \frac{R}{LaST TAKE POINT}$	745935.72 the proposed bottom hole location or has a right to drill this well at this
21	LAT. = 32.3118120'N 100' FNL, 2310' FWL	location pursuant to a contract with an owner of such a mineral or working
W/4 CORNER SEC. 16	NMSP EAST (FT) LONG. = 103.6806918*W	CORNER SEC. 16 interest, or to a voluntary pooling agreement or a compulsory pooling order
LAT. = 32.3045785'N 2 LONG. = 103.6881632'W	Dir.	$= 32.3046362^{\circ}N$ heretofore entered by the division.
NMSP EAST (FT) N = 475137.91 ⊢		P EAST (FT) 475191.11 Penny Harms 6-2-2022
E = 740670.42		745952.33 Signature Date
2640.5	2641.	JENNY HARMS
M		Printed Name
0,59	21,3	JENNY.HARMS@DVN.COM
SECTION CORNER LAT. = 32.2973218 N		IION CORNER = 32.2973762'N E-mail Address
LONG. = 103.6881624'W	N89'24'55"E LONG. = 103.6796130'W N89'27'25"E LONG	G. = 103.6710664'W
NMSP EAST (FT) N = 472497.97	N = 472524.93	P EAST (FT) 472549.96 745089.05 IsSURVEYOR CERTIFICATION
E = 740686.53	E = 748328.17	745968.95 I hereby certify that the well location shown on this plat
264		was plotted from field notes of actual surveys made by
	213'E	me or under my supervision, and that the same is true
W/4 CORNER SEC. 21		CORNER SEC. 21 and correct to the best of my belief.
LAT. = 32.2900582*N Z LONG. = 103.6881558*W		= 32.2901167'N G. = 103.6710640'W JULY 29, 2021
NMSP EAST (FT) N = 469855.52	ELEV. = 3683.1' LAT. = 32.2831177'N NMS	Date of Survey
E = 740704.48		745986.01
20 74 12	NMSP EAST (FT) $1 + \frac{1}{2}$ N = 467594.87 $1 + \frac{1}{2}$ E = 743057.76 N	
SW CORNER SEC. 21 ≥		CORNER SEC. 21
SW CORNER SEC. 21 a LAT. = 32.2828069'N & LONG. = 103.6881552'W & NMSP EAST (FT) & N = 467217.53 z	SURFACE O LAT. = 32.2828480"N 5 LAT.	. = 32.2828569'N G. = 103.6710470'W Signature and Seal of Professional Surveyor:
NMSP EAST (FT)	NMSP EAST (FT)	SP EAST (FT)
N = 467217.53 ≥ E = 740720.53		= 467267.93 = 746007.58
	S89°19'43"W 2639.45 F S89°34'43"W 2649.00 FT	- / LURE V (2 HVU. 09/9

Received by OCD: 4/9/2024 5:35:14 AM

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As Drilled

Intent

Operator Name: Property Name:	Well Number
API #	

	FLOOFY CAT 21-16 FED STATE COM	732H
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Kick Off Point (KOP)

UL	Section 21	Township 23S	Range 32E	Lot	Feet 38 FSL	From N/S	Feet 2310 FW	From E/W	County LEA
Latitu	Latitude				Longitude		NAD		
32.	32.28285363				-103.680	76231			83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	21	23S	32E		100	SOUTH	2310	WEST	LEA
Latitu 32.2	^{de} 83117	7			Longitude 103.6806	6822			NAD 83

Last Take Point (LTP)

UL C	Section 16	Township 23S	Range 32E	Lot	Feet 100	From N/S NORTH	Feet 2310	From E/W WEST	County LEA
Latitude					Longitud	le		NAD	
32.3115921				103.6	103.6806918			83	

Is this well the defining well for the Horizontal Spacing Unit? no

Is this well an infill well?

yes

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

API #		
Operator Name:	Property Name:	Well Number
	•	

KZ 06/29/2018

Re	ceived by	OCD:	4/9/2024	5:35:14	4M
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<i>iveu by</i> OCD. 4/9/2024	· J.JJ.14 /1//						ruge 4
	E	Stat nergy, Minerals a	te of New Mex and Natural Res		ent		nit Electronically E-permitting
		1220 \$	onservation Di South St. Fran Ita Fe, NM 87	cis Dr.			
	Ν	ATURAL G	AS MANA	GEMENT PI	LAN		
This Natural Gas Manag	gement Plan m	ust be submitted w	ith each Applicat	ion for Permit to I	Drill (Al	PD) for a new o	r recompleted well.
			<u>1 – Plan D</u> ffective May 25,				
I. Operator: <u>Devon En</u>	ergy Productio	on Company, L.P.	OGRID:	6137		Date: /	4 / 2024
II. Type: 🛛 Original	□ Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C 🗆 19.15.27.9.D(6)(b) N	MAC 🗆 Other.	
If Other, please describe	:						
III. Well(s): Provide the be recompleted from a s					vells pr	oposed to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D P	Anticipated roduced Water BBL/D
See Attached							
IV. Central Delivery P	oint Name:	SEE ATTAC	HMENTS			[See 19.15.2	27.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple					vell or s	et of wells prop	osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date
See Attached							
VI. Separation Equipn VII. Operational Prac Subsection A through F	tices: 🛛 Attac	ch a complete desc		-			
VIII. Best Managemen during active and planne			te description of	'Operator's best n	nanager	nent practices to	o minimize venting

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Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \square Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:						
Printed Name: Jeff Walla						
Title: Surface Land and Regulatory Manager						
E-mail Address:						
Date:						
Phone:						
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)						
Approved By:						
Title:						
Approval Date:						
Conditions of Approval:						

NATURAL GAS MANAGEMENT PLAN Section 1 - Plan Description

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

								Anticipated	Anticipated
							Anticipated	Gas	Produced Water
Well Name	API	ULSTR		FOOTA	GES		Oil BBL/D	MCF/D	BBL/D
Floofy Cat 21-16 Fed State Com 731H		21-23S-32E	850	FWL	350	FSL	(+/-)1981bop	d/(+/-)5413mcfd	/(+/-)5339bwpd
Floofy Cat 21-16 Fed State Com 732H		21-23S-32E	2340	FWL	350	FSL	(+/-)1981bop	d/(+/-)5413mcfd	/(+/-)5339bwpd
Floofy Cat 21-16 Fed State Com 733H		21-23S-32E	1650	FEL	20	FNL	(+/-)1981bop	d/(+/-)5413mcfd	/(+/-)5339bwpd

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

				Completion		First
			TD Reached	Commencem	Initial Flow	Production
Well Name	API	Spud Date	Date	ent Date	back Date	Date
Floofy Cat 21-16 Fed State Com 731H		6/1/2025	7/1/2025	10/29/2025	10/29/2025	10/29/2025
Floofy Cat 21-16 Fed State Com 732H		6/1/2025	7/1/2025	10/29/2025	10/29/2025	10/29/2025
Floofy Cat 21-16 Fed State Com 733H		6/1/2025	7/1/2025	10/29/2025	10/29/2025	10/29/2025
*dates above are subject to change						

above are subject to change



VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
 - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



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Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

FLOOFY CAT 21-16 FED STATE COM 732H

1. Geologic Formations

TVD of target	12550	Pilot hole depth	N/A
MD at TD:	22813	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1160		
Salt	2600		
Base of Salt	4805		
Delaware	4840		
Cherry Canyon	5970		
Brushy Canyon	6910		
1st Bone Spring Lime	8640		
Bone Spring 1st	9830		
Bone Spring 2nd	10545		
3rd Bone Spring Lime	10955		
Bone Spring 3rd	11710		
Wolfcamp	12100		

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

FLOOFY CAT 21-16 FED STATE COM 732H

		Wt				Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	10 3/4	40 1/2	H40	BTC	0	1185	0	1185
9 7/8	8 5/8	32	P110	TLW	0	12100	0	12100
7 7/8	5 1/2	17	P110	BTC	0	22813	0	12550

2. Casing Program (Primary Design)

• 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.

If necessary, a top out consisting of 500 sacks of Class C cement will be executed as a contingency.

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

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	473	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	483	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int I	600	6916	13.2	1.44	Tail: Class H / C + additives
Production	117	9985.183	9	3.27	Lead: Class H /C + additives
Froduction	1433	11985.18	13.2	1.44	Tail: Class H / C + additives

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

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		d Ram	Х	
Int 1	13-3/0	5101	Pipe	e Ram		5M
			Doub	le Ram	Х	5111
			Other*			
			Annul	ar (5M)	Х	100% of rated working pressure
Production	13-5/8"	10M	Blind Ram		Х	
Troduction	Pipe Ram		e Ram		10M	
			Doub	le Ram	Х	10101
			Other*			
			Annul	ar (5M)		
			Blind	d Ram		
			Pipe	e Ram]
			Doub	le Ram		
			Other*			
N A variance is requested for	the use of a	a diverter or	n the surface	casing. See	attached for	schematic.
Y A variance is requested to :	run a 5 M a	nnular on a	10M system			

4. Pressure Control Equipment (Three String Design)

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
what will be used to monitor the loss of gain of huid?	r v 1/r ason/ v isuai Monitoring

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6852
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.

	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.

Attachments

X Directional Plan Other, describe



Section 1 - Geologic Formations

ction 1 - Geologic	Formatio	ns				
Formation Name	Elevation	True Vertical		Lithologies	Mineral Resources	Producing Formatio
UNKNOWN	3682	0	0	ALLUVIUM, OTHER : Surface	NONE	N
RUSTLER	2522	1160	1160	SANDSTONE	NONE	N
TOP SALT	1082	2600	2600	SALT	NONE	N
BASE OF SALT	-1123	4805	4805	SALT	NONE	N
DELAWARE	-1138	4820	4820	SANDSTONE	NATURAL GAS, OIL	N
LAMAR	-1158	4840	4840	SANDSTONE	NATURAL GAS, OIL	N
CHERRY CANYON	-2288	5970	5970	SANDSTONE	NATURAL GAS, OIL	N
BONE SPRING LIME	-4958	8640	8640	LIMESTONE	NATURAL GAS, OIL	N
AVALON SAND	-5478	9160	9160	SANDSTONE	NATURAL GAS, OIL	N
BONE SPRING 1ST	-6148	9830	9830	SANDSTONE	NATURAL GAS, OIL	N
BONE SPRING LIME	-6418	10100	10100	LIMESTONE	NATURAL GAS, OIL	N
BONE SPRING 2ND	-6863	10545	10545	SANDSTONE	NATURAL GAS, OIL	N
BONE SPRING LIME	-7273	10955	10955	LIMESTONE	NATURAL GAS, OIL	N
BONE SPRING 3RD	-8028	11710	11710	SANDSTONE	NATURAL GAS, OIL	N
WOLFCAMP	-8418	12100	12100	SANDSTONE	NATURAL GAS, OIL	Y
STRAWN	-10248	13930	13930	SANDSTONE	NATURAL GAS, OIL	N
	Formation Name UNKNOWN RUSTLER TOP SALT BASE OF SALT DELAWARE LAMAR CHERRY CANYON BONE SPRING LIME AVALON SAND BONE SPRING 1ST BONE SPRING 1ST BONE SPRING LIME BONE SPRING LIME BONE SPRING 2ND BONE SPRING 3RD	Formation Name UNKNOWNElevation 3682RUSTLER2522TOP SALT1082BASE OF SALT-1123DELAWARE-1138LAMAR-1158CHERRY CANYON-2288BONE SPRING LIME-4958AVALON SAND-5478BONE SPRING 1ST-6148BONE SPRING LIME-6418BONE SPRING LIME-7273BONE SPRING LIME-7273BONE SPRING SRD-8028WOLFCAMP-8418	Formation NameElevationUNKNOWN36820RUSTLER25221160TOP SALT10822600BASE OF SALT-11234805DELAWARE-111384820LAMAR-11584840CHERRY CANYON-22885970BONE SPRING LIME-49588640AVALON SAND-54789160BONE SPRING 1ST-61489830BONE SPRING LIME-641810100BONE SPRING LIME-686310545BONE SPRING LIME-727310955BONE SPRING LIME-802811710WOLFCAMP-841812100	Formation Name Elevation True Vertical Measured Depth UNKNOWN 3682 0 0 RUSTLER 2522 1160 1160 TOP SALT 1082 2600 2600 BASE OF SALT -1123 4805 4805 DELAWARE -1138 4820 4820 LAMAR -1158 4840 4840 CHERRY CANYON -2288 5970 5970 BONE SPRING LIME -4958 8640 8640 AVALON SAND -5478 9160 9160 BONE SPRING LIME -6418 10100 10100 BONE SPRING LIME -6463 10545 10545 BONE SPRING LIME -7273 10955 10955 BONE SPRING LIME -7273 10955 10955 BONE SPRING SRD -8028 11710 11710 WOLFCAMP -8418 12100 12100	Formation NameElevationTrue VerticalMeasured DepthLithologiesUNKNOWN3682000ALLUVIUM, OTHER : SurfaceRUSTLER252211601160SANDSTONETOP SALT108226002600SALTBASE OF SALT-112348054805SALTDELAWARE-113848204820SANDSTONELAMAR-115848405970SANDSTONECHERRY CANYON-228859705970SANDSTONEBONE SPRING LIME-495886408640LIMESTONEBONE SPRING SAND-547891609160SANDSTONEBONE SPRING LIME-64181010010100LIMESTONEBONE SPRING LIME-641810545SANDSTONEBONE SPRING SAND-686310545LIMESTONEBONE SPRING SAND-684181010010100LIMESTONEBONE SPRING SAND-684181010010100LIMESTONEBONE SPRING SAND-684181010010100LIMESTONEBONE SPRING SAND-80281171011710SANDSTONEBONE SPRING SAND-80281171011710SANDSTONEBONE SPRING SAND-84181210012100SANDSTONE	Formation NameElevationTrue Vertical DepthMeasured DepthLithologiesMineral ResourcesUNKNOWN368200ALLUVIUM,OTHER: SurfaceNONERUSTLER252211601160SANDSTONENONETOP SALT108226002600SALTNONEBASE OF SALT-112348054805SALTNONEDELAWARE-113848204820SANDSTONENATURAL GAS, OILLAMAR-115848404840SANDSTONENATURAL GAS, OILCHERRY CANYON-228859705970SANDSTONENATURAL GAS, OILBONE SPRING LIME-647891609160SANDSTONENATURAL GAS, OILBONE SPRING 1ST-61481010010100LIMESTONENATURAL GAS, OILBONE SPRING LIME-64181010410100LIMESTONENATURAL GAS, OILBONE SPRING LIME-72731095510955LIMESTONENATURAL GAS, OILBONE SPRING LIME-72731095510955LIMESTONENATURAL GAS, OILBONE SPRING 3RD-80281171011710SANDSTONENATURAL GAS, OILBONE SPRING 3RD-802811710112100SANDSTONENATURAL GAS, OILWOLFCAMP-84181210012100SANDSTONENATURAL GAS, OIL

Section 2 - Blowout Prevention





Commitment Runs Deep



Design Plan Operation and Maintenance Plan Closure Plan

SENM - Closed Loop Systems June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependent on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

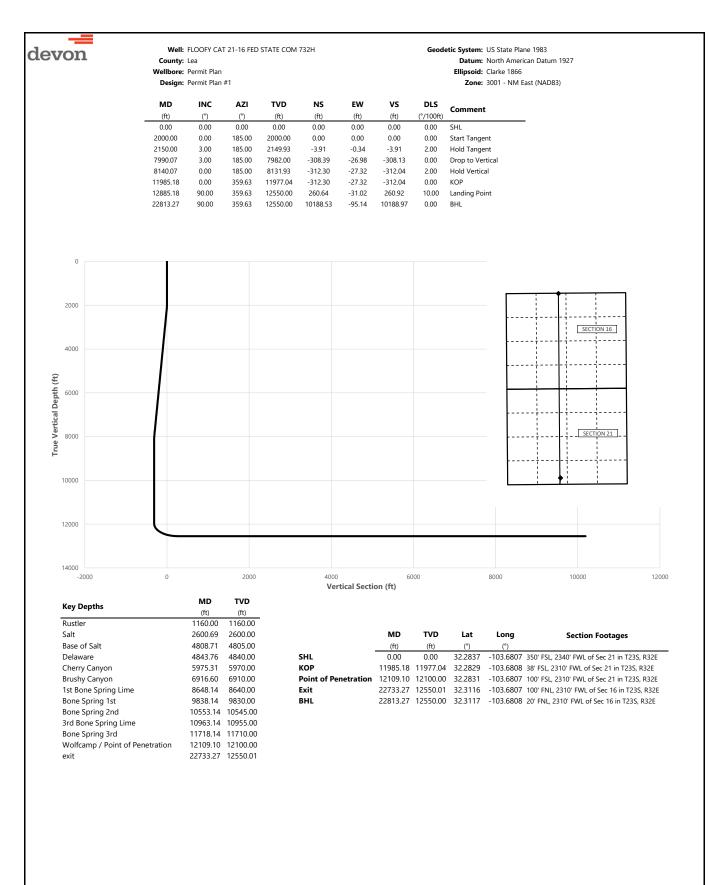
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



devon		County: Wellbore:	Lea Permit Plar		STATE COM	732H			Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866
		Design:	Permit Plar	n #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	185.00	100.00	0.00	0.00	0.00	0.00	SHE
	200.00	0.00	185.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	185.00	300.00	0.00	0.00	0.00	0.00	
	400.00 500.00	0.00 0.00	185.00 185.00	400.00 500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	600.00	0.00	185.00	600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	185.00	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	185.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	185.00	900.00	0.00	0.00	0.00	0.00	
	1000.00 1100.00	0.00 0.00	185.00 185.00	1000.00 1100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1160.00	0.00	185.00	1160.00	0.00	0.00	0.00	0.00	Rustler
	1200.00	0.00	185.00	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	185.00	1300.00	0.00	0.00	0.00	0.00	
	1400.00	0.00 0.00	185.00 185.00	1400.00	0.00	0.00 0.00	0.00 0.00	0.00	
	1500.00 1600.00	0.00	185.00	1500.00 1600.00	0.00 0.00	0.00	0.00	0.00 0.00	
	1700.00	0.00	185.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	185.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	185.00	1900.00	0.00	0.00	0.00	0.00	Charle Transact
	2000.00 2100.00	0.00 2.00	185.00 185.00	2000.00 2099.98	0.00 -1.74	0.00 -0.15	0.00 -1.74	0.00 2.00	Start Tangent
	2150.00	3.00	185.00	2149.93	-3.91	-0.34	-3.91	2.00	Hold Tangent
	2200.00	3.00	185.00	2199.86	-6.52	-0.57	-6.51	0.00	5
	2300.00	3.00	185.00	2299.73	-11.73	-1.03	-11.72	0.00	
	2400.00	3.00	185.00	2399.59	-16.95	-1.48	-16.93	0.00	
	2500.00 2600.00	3.00 3.00	185.00 185.00	2499.45 2599.31	-22.16 -27.37	-1.94 -2.39	-22.14 -27.35	0.00 0.00	
	2600.69	3.00	185.00	2600.00	-27.41	-2.40	-27.38	0.00	Salt
	2700.00	3.00	185.00	2699.18	-32.59	-2.85	-32.56	0.00	
	2800.00	3.00	185.00	2799.04	-37.80	-3.31	-37.77	0.00	
	2900.00 3000.00	3.00 3.00	185.00 185.00	2898.90 2998.77	-43.01 -48.23	-3.76 -4.22	-42.98 -48.19	0.00 0.00	
	3100.00	3.00	185.00	3098.63	-53.44	-4.68	-40.19	0.00	
	3200.00	3.00	185.00	3198.49	-58.65	-5.13	-58.60	0.00	
	3300.00	3.00	185.00	3298.36	-63.87	-5.59	-63.81	0.00	
	3400.00 3500.00	3.00 3.00	185.00 185.00	3398.22 3498.08	-69.08 -74.30	-6.04 -6.50	-69.02 -74.23	0.00 0.00	
	3600.00	3.00	185.00	3498.08	-79.51	-6.96	-79.44	0.00	
	3700.00	3.00	185.00	3697.81	-84.72	-7.41	-84.65	0.00	
	3800.00	3.00	185.00	3797.67	-89.94	-7.87	-89.86	0.00	
	3900.00	3.00	185.00	3897.53	-95.15	-8.32	-95.07	0.00	
	4000.00 4100.00	3.00 3.00	185.00 185.00	3997.40 4097.26	-100.36 -105.58	-8.78 -9.24	-100.28 -105.49	0.00 0.00	
	4200.00	3.00	185.00	4197.12	-110.79	-9.69	-110.70	0.00	
	4300.00	3.00	185.00	4296.98	-116.01	-10.15	-115.91	0.00	
	4400.00	3.00	185.00	4396.85	-121.22	-10.60	-121.11	0.00	
	4500.00 4600.00	3.00 3.00	185.00 185.00	4496.71 4596.57	-126.43 -131.65	-11.06 -11.52	-126.32 -131.53	0.00 0.00	
	4700.00	3.00	185.00	4596.57 4696.44	-131.65	-11.52	-136.74	0.00	
	4800.00	3.00	185.00	4796.30	-142.07	-12.43	-141.95	0.00	
	4808.71	3.00	185.00	4805.00	-142.53	-12.47	-142.41	0.00	Base of Salt
	4843.76 4900.00	3.00 3.00	185.00 185.00	4840.00 4896.16	-144.36 -147.29	-12.63 -12.89	-144.23 -147.16	0.00 0.00	Delaware
	4900.00 5000.00	3.00	185.00	4896.16	-147.29 -152.50	-12.89	-147.16	0.00	
	5100.00	3.00	185.00	5095.89	-157.71	-13.80	-157.58	0.00	
	5200.00	3.00	185.00	5195.75	-162.93	-14.25	-162.79	0.00	
	5300.00	3.00	185.00	5295.61	-168.14	-14.71	-168.00	0.00	
	5400.00 5500.00	3.00 3.00	185.00 185.00	5395.48 5495.34	-173.36 -178.57	-15.17 -15.62	-173.21 -178.42	0.00 0.00	
	5600.00	3.00	185.00	5595.20	-178.57	-15.02	-178.42	0.00	
	5700.00	3.00	185.00	5695.07	-189.00	-16.53	-188.83	0.00	
	5800.00	3.00	185.00	5794.93	-194.21	-16.99	-194.04	0.00	
	5900.00	3.00	185.00	5894.79	-199.42	-17.45	-199.25	0.00	Charge Conven
	5975.31 6000.00	3.00 3.00	185.00 185.00	5970.00 5994.66	-203.35 -204.64	-17.79 -17.90	-203.18 -204.46	0.00 0.00	Cherry Canyon
	6100.00	3.00	185.00	6094.52	-209.85	-18.36	-209.67	0.00	
	6200.00	3.00	185.00	6194.38	-215.07	-18.82	-214.88	0.00	
	6300.00	3.00	185.00	6294.24	-220.28	-19.27	-220.09	0.00	

. —		Mall		T 21-16 FED :		7321			Gendetic System: LIS State Diane 1982
devon		Well: County:		1 21-10 FED	STATE COM	1 3211			Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plar	1					Ellipsoid: Clarke 1866
		Design:	Permit Plar	n #1					Zone: 3001 - NM East (NAD83)
	MD	INC	A 71		NC	E14/	VC		
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
	6400.00	3.00	185.00	6394.11	-225.49	-19.73	-225.30	0.00	
	6500.00	3.00	185.00	6493.97	-230.71	-20.18	-230.51	0.00	
	6600.00	3.00	185.00	6593.83	-235.92	-20.64	-235.72	0.00	
	6700.00	3.00	185.00	6693.70	-241.13	-21.10	-240.93	0.00	
	6800.00 6900.00	3.00 3.00	185.00 185.00	6793.56 6893.42	-246.35 -251.56	-21.55 -22.01	-246.14 -251.34	0.00 0.00	
	6900.00 6916.60	3.00	185.00	6893.42 6910.00	-251.56	-22.01 -22.08	-251.34 -252.21	0.00	Brushy Canyon
	7000.00	3.00	185.00	6993.28	-256.77	-22.46	-256.55	0.00	··· ,··,-··
	7100.00	3.00	185.00	7093.15	-261.99	-22.92	-261.76	0.00	
	7200.00	3.00	185.00	7193.01	-267.20	-23.38	-266.97	0.00	
	7300.00	3.00	185.00	7292.87	-272.42	-23.83	-272.18	0.00	
	7400.00 7500.00	3.00 3.00	185.00 185.00	7392.74 7492.60	-277.63 -282.84	-24.29 -24.74	-277.39 -282.60	0.00 0.00	
	7600.00	3.00	185.00	7492.60 7592.46	-282.84 -288.06	-24.74 -25.20	-282.60	0.00	
	7700.00	3.00	185.00	7692.33	-293.27	-25.66	-293.02	0.00	
	7800.00	3.00	185.00	7792.19	-298.48	-26.11	-298.23	0.00	
	7900.00	3.00	185.00	7892.05	-303.70	-26.57	-303.44	0.00	
	7990.07	3.00	185.00	7982.00	-308.39	-26.98	-308.13	0.00	Drop to Vertical
	8000.00 8100.00	2.80 0.80	185.00 185.00	7991.92 8091.86	-308.89 -312.03	-27.02 -27.30	-308.63 -311.76	2.00 2.00	
	8100.00 8140.07	0.80	185.00	8131.93	-312.03	-27.30	-311.76	2.00	Hold Vertical
	8200.00	0.00	359.63	8191.86	-312.30	-27.32	-312.04	0.00	
	8300.00	0.00	359.63	8291.86	-312.30	-27.32	-312.04	0.00	
	8400.00	0.00	359.63	8391.86	-312.30	-27.32	-312.04	0.00	
	8500.00	0.00	359.63	8491.86	-312.30	-27.32	-312.04	0.00	
	8600.00 8648.14	0.00 0.00	359.63 359.63	8591.86 8640.00	-312.30 -312.30	-27.32 -27.32	-312.04 -312.04	0.00 0.00	1st Bone Spring Lime
	8048.14 8700.00	0.00	359.63	8691.86	-312.30	-27.32	-312.04	0.00	
	8800.00	0.00	359.63	8791.86	-312.30	-27.32	-312.04	0.00	
	8900.00	0.00	359.63	8891.86	-312.30	-27.32	-312.04	0.00	
	9000.00	0.00	359.63	8991.86	-312.30	-27.32	-312.04	0.00	
	9100.00	0.00	359.63	9091.86	-312.30	-27.32	-312.04	0.00	
	9200.00 9300.00	0.00 0.00	359.63 359.63	9191.86 9291.86	-312.30 -312.30	-27.32 -27.32	-312.04 -312.04	0.00 0.00	
	9400.00	0.00	359.63	9391.86	-312.30	-27.32	-312.04	0.00	
	9500.00	0.00	359.63	9491.86	-312.30	-27.32	-312.04	0.00	
	9600.00	0.00	359.63	9591.86	-312.30	-27.32	-312.04	0.00	
	9700.00	0.00	359.63	9691.86	-312.30	-27.32	-312.04	0.00	
	9800.00	0.00	359.63	9791.86	-312.30	-27.32	-312.04	0.00	Rono Spring 1ct
	9838.14 9900.00	0.00 0.00	359.63 359.63	9830.00 9891.86	-312.30 -312.30	-27.32 -27.32	-312.04 -312.04	0.00 0.00	Bone Spring 1st
	10000.00	0.00	359.63	9991.86 9991.86	-312.30	-27.32	-312.04	0.00	
	10100.00	0.00	359.63	10091.86	-312.30	-27.32	-312.04	0.00	
	10200.00	0.00	359.63	10191.86	-312.30	-27.32	-312.04	0.00	
	10300.00	0.00	359.63	10291.86	-312.30	-27.32	-312.04	0.00	
	10400.00	0.00	359.63 359.63	10391.86	-312.30	-27.32	-312.04	0.00	
	10500.00 10553.14	0.00 0.00	359.63 359.63	10491.86 10545.00	-312.30 -312.30	-27.32 -27.32	-312.04 -312.04	0.00 0.00	Bone Spring 2nd
	10600.00	0.00	359.63	10591.86	-312.30	-27.32	-312.04	0.00	· · · · · · · · · · · · · · · · · · ·
	10700.00	0.00	359.63	10691.86	-312.30	-27.32	-312.04	0.00	
	10800.00	0.00	359.63	10791.86	-312.30	-27.32	-312.04	0.00	
	10900.00	0.00	359.63	10891.86	-312.30	-27.32	-312.04	0.00	
	10963.14 11000.00	0.00 0.00	359.63 359.63	10955.00 10991.86	-312.30 -312.30	-27.32 -27.32	-312.04 -312.04	0.00 0.00	3rd Bone Spring Lime
	11100.00	0.00	359.63	110991.86	-312.30	-27.32	-312.04	0.00	
	11200.00	0.00	359.63	11191.86	-312.30	-27.32	-312.04	0.00	
	11300.00	0.00	359.63	11291.86	-312.30	-27.32	-312.04	0.00	
	11400.00	0.00	359.63	11391.86	-312.30	-27.32	-312.04	0.00	
	11500.00	0.00	359.63	11491.86	-312.30	-27.32	-312.04	0.00	
	11600.00 11700.00	0.00 0.00	359.63 359.63	11591.86 11691.86	-312.30 -312.30	-27.32 -27.32	-312.04 -312.04	0.00 0.00	
	11700.00	0.00	359.63	11710.00	-312.30	-27.32	-312.04	0.00	Bone Spring 3rd
	11800.00	0.00	359.63	11791.86	-312.30	-27.32	-312.04	0.00	
	11900.00	0.00	359.63	11891.86	-312.30	-27.32	-312.04	0.00	
	11985.18	0.00	359.63	11977.04	-312.30	-27.32	-312.04	0.00	КОР
	12000.00	1.48	359.63	11991.86	-312.11	-27.32	-311.85	10.00	
	12100.00 12109.10	11.48 12.39	359.63 359.63	12091.09	-300.84	-27.40	-300.57 -298.69	10.00	Wolfcamp / Point of Penetration
	12109.10	12.39 21.48	359.63	12100.00 12186.86	-298.96 -272.50	-27.41 -27.58	-298.69 -272.24	10.00 10.00	Wolfcamp / Point of Penetration
	12300.00	31.48	359.63	12276.26	-227.97	-27.87	-227.70	10.00	

_				T 01 10 555					Conduction Contraction	IC State Diana 1092
devon		Well: County:		T 21-16 FED	STATE COM	732H			Geodetic System: L	JS State Plane 1983 North American Datum 1927
			Permit Plar	1					Ellipsoid: C	
		Design:	Permit Plar	n #1					Zone: 3	3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
-	12400.00	41.48	359.63	12356.56	-168.59	-28.25	-168.32	10.00		
	12500.00	51.48	359.63	12425.33	-96.17	-28.72	-95.90	10.00		
	12600.00 12700.00	61.48 71.48	359.63 359.63	12480.48 12520.33	-12.91 78.67	-29.26 -29.85	-12.63 78.94	10.00 10.00		
	12800.00	81.48	359.63	12543.68	175.77	-30.48	176.05	10.00		
	12885.18	90.00	359.63	12550.00	260.64	-31.02	260.92	10.00	Landing Point	
	12900.00	90.00	359.63	12550.00	275.46	-31.12	275.74	0.00		
	13000.00 13100.00	90.00 90.00	359.63 359.63	12550.00 12550.00	375.46 475.45	-31.77 -32.41	375.74 475.74	0.00 0.00		
	13200.00	90.00	359.63	12550.00	575.45	-33.06	575.74	0.00		
	13300.00	90.00	359.63	12550.00	675.45	-33.70	675.73	0.00		
	13400.00	90.00	359.63	12550.00	775.45	-34.35	775.73	0.00		
	13500.00 13600.00	90.00 90.00	359.63 359.63	12550.00 12550.00	875.45 975.44	-35.00 -35.64	875.73 975.73	0.00 0.00		
	13700.00	90.00	359.63	12550.00	1075.44	-36.29	1075.73	0.00		
	13800.00	90.00	359.63	12550.00	1175.44	-36.94	1175.73	0.00		
	13900.00	90.00	359.63	12550.00	1275.44	-37.58	1275.73	0.00		
	14000.00	90.00	359.63	12550.00	1375.44	-38.23	1375.73	0.00		
	14100.00 14200.00	90.00 90.00	359.63 359.63	12550.00 12550.00	1475.43 1575.43	-38.87 -39.52	1475.73 1575.73	0.00 0.00		
	14300.00	90.00	359.63	12550.00	1675.43	-40.17	1675.73	0.00		
	14400.00	90.00	359.63	12550.00	1775.43	-40.81	1775.73	0.00		
	14500.00	90.00	359.63	12550.00	1875.42	-41.46	1875.73	0.00		
	14600.00 14700.00	90.00 90.00	359.63 359.63	12550.00 12550.00	1975.42 2075.42	-42.11 -42.75	1975.73 2075.73	0.00 0.00		
	14800.00	90.00	359.63	12550.00	2175.42	-43.40	2175.73	0.00		
	14900.00	90.00	359.63	12550.00	2275.42	-44.04	2275.73	0.00		
	15000.00	90.00	359.63	12550.00	2375.41	-44.69	2375.73	0.00		
	15100.00 15200.00	90.00 90.00	359.63 359.63	12550.00 12550.00	2475.41 2575.41	-45.34 -45.98	2475.73 2575.73	0.00 0.00		
	15300.00	90.00	359.63	12550.00	2675.41	-46.63	2675.73	0.00		
	15400.00	90.00	359.63	12550.00	2775.41	-47.28	2775.73	0.00		
	15500.00	90.00	359.63	12550.00	2875.40	-47.92	2875.73	0.00		
	15600.00 15700.00	90.00 90.00	359.63 359.63	12550.00 12550.00	2975.40 3075.40	-48.57 -49.22	2975.73 3075.72	0.00 0.00		
	15800.00	90.00	359.63	12550.00	3175.40	-49.86	3175.72	0.00		
	15900.00	90.00	359.63	12550.00	3275.40	-50.51	3275.72	0.00		
	16000.00	90.00	359.63	12550.00	3375.39	-51.15	3375.72	0.00		
	16100.00 16200.00	90.00	359.63 359.63	12550.00 12550.00	3475.39	-51.80	3475.72	0.00 0.00		
	16300.00	90.00 90.00	359.63	12550.00	3575.39 3675.39	-52.45 -53.09	3575.72 3675.72	0.00		
	16400.00	90.00	359.63	12550.00	3775.39	-53.74	3775.72	0.00		
	16500.00	90.00	359.63	12550.00	3875.38	-54.39	3875.72	0.00		
	16600.00 16700.00	90.00 90.00	359.63	12550.00	3975.38	-55.03	3975.72	0.00 0.00		
	16800.00	90.00	359.63 359.63	12550.01 12550.01	4075.38 4175.38	-55.68 -56.32	4075.72 4175.72	0.00		
	16900.00	90.00	359.63	12550.01	4275.37	-56.97	4275.72	0.00		
	17000.00	90.00	359.63	12550.01	4375.37	-57.62	4375.72	0.00		
	17100.00 17200.00	90.00 90.00	359.63 359.63	12550.01 12550.01	4475.37 4575.37	-58.26 -58.91	4475.72 4575.72	0.00 0.00		
	17200.00	90.00	359.63	12550.01	4675.37	-59.56	4675.72	0.00		
	17400.00	90.00	359.63	12550.01	4775.36	-60.20	4775.72	0.00		
	17500.00	90.00	359.63	12550.01	4875.36	-60.85	4875.72	0.00		
	17600.00 17700.00	90.00 90.00	359.63 359.63	12550.01 12550.01	4975.36 5075.36	-61.49 -62.14	4975.72 5075.72	0.00 0.00		
	17800.00	90.00	359.63	12550.01	5175.36	-62.79	5175.72	0.00		
	17900.00	90.00	359.63	12550.01	5275.35	-63.43	5275.72	0.00		
	18000.00	90.00	359.63	12550.01	5375.35	-64.08	5375.72	0.00		
	18100.00 18200.00	90.00	359.63 359.63	12550.01	5475.35	-64.73	5475.72	0.00 0.00		
	18200.00	90.00 90.00	359.63	12550.01 12550.01	5575.35 5675.35	-65.37 -66.02	5575.71 5675.71	0.00		
	18400.00	90.00	359.63	12550.01	5775.34	-66.67	5775.71	0.00		
	18500.00	90.00	359.63	12550.01	5875.34	-67.31	5875.71	0.00		
	18600.00	90.00	359.63	12550.01	5975.34	-67.96	5975.71	0.00		
	18700.00 18800.00	90.00 90.00	359.63 359.63	12550.01 12550.01	6075.34 6175.33	-68.60 -69.25	6075.71 6175.71	0.00 0.00		
	18900.00	90.00	359.63	12550.01	6275.33	-69.23	6275.71	0.00		
	19000.00	90.00	359.63	12550.01	6375.33	-70.54	6375.71	0.00		
	19100.00	90.00	359.63	12550.01	6475.33	-71.19	6475.71	0.00		
	19200.00	90.00	359.63	12550.01	6575.33	-71.84	6575.71	0.00		

evon		Well:	FLOOFY CA	AT 21-16 FED	STATE COM 7	732H			Geodetic System: US State Plane 1983
CV011		County:							Datum: North American Datum 192
			Permit Plar						Ellipsoid: Clarke 1866
		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
-	19300.00	90.00	359.63	12550.01	6675.32	-72.48	6675.71	0.00	
	19400.00	90.00	359.63	12550.01	6775.32	-73.13	6775.71	0.00	
	19500.00	90.00	359.63	12550.01	6875.32	-73.77	6875.71	0.00	
	19600.00	90.00	359.63	12550.01	6975.32	-74.42	6975.71	0.00	
	19700.00	90.00	359.63	12550.01	7075.32	-75.07	7075.71	0.00	
	19800.00	90.00	359.63	12550.01	7175.31	-75.71	7175.71	0.00	
	19900.00	90.00	359.63	12550.01	7275.31	-76.36	7275.71	0.00	
	20000.00	90.00	359.63	12550.01	7375.31	-77.01	7375.71	0.00	
	20100.00	90.00	359.63	12550.01	7475.31	-77.65	7475.71	0.00	
	20200.00	90.00	359.63	12550.01	7575.31	-78.30	7575.71	0.00	
	20300.00	90.00	359.63	12550.01	7675.30 7775.30	-78.94	7675.71	0.00	
	20400.00 20500.00	90.00 90.00	359.63 359.63	12550.01 12550.01	7875.30	-79.59 -80.24	7775.71 7875.71	0.00 0.00	
	20600.00	90.00	359.63	12550.01	7975.30	-80.88	7975.70	0.00	
	20700.00	90.00	359.63	12550.01	8075.30	-81.53	8075.70	0.00	
	20800.00	90.00	359.63	12550.01	8175.29	-82.18	8175.70	0.00	
	20900.00	90.00	359.63	12550.01	8275.29	-82.82	8275.70	0.00	
	21000.00	90.00	359.63	12550.01	8375.29	-83.47	8375.70	0.00	
	21100.00	90.00	359.63	12550.01	8475.29	-84.12	8475.70	0.00	
	21200.00	90.00	359.63	12550.01	8575.28	-84.76	8575.70	0.00	
	21300.00	90.00	359.63	12550.01	8675.28	-85.41	8675.70	0.00	
	21400.00	90.00	359.63	12550.01	8775.28	-86.05	8775.70	0.00	
	21500.00	90.00	359.63	12550.01	8875.28	-86.70	8875.70	0.00	
	21600.00	90.00	359.63	12550.01	8975.28	-87.35	8975.70	0.00	
	21700.00	90.00	359.63	12550.01	9075.27	-87.99	9075.70	0.00	
	21800.00	90.00	359.63	12550.01	9175.27	-88.64	9175.70	0.00	
	21900.00	90.00	359.63	12550.01	9275.27	-89.29	9275.70	0.00	
	22000.00	90.00	359.63	12550.01	9375.27	-89.93	9375.70	0.00	
	22100.00	90.00	359.63	12550.01	9475.27	-90.58	9475.70	0.00	
	22200.00	90.00	359.63	12550.01	9575.26	-91.22	9575.70	0.00	
	22300.00	90.00	359.63	12550.01	9675.26	-91.87 -92.52	9675.70	0.00	
	22400.00 22500.00	90.00 90.00	359.63	12550.01 12550.01	9775.26 9875.26	-92.52 -93.16	9775.70 9875.70	0.00 0.00	
			359.63						
									exit
									BHL
	22600.00 22700.00 22733.27 22800.00 22813.27	90.00 90.00 90.00 90.00 90.00	359.63 359.63 359.63 359.63 359.63	12550.01 12550.01 12550.01 12550.01 12550.00	9975.26 10075.25 10108.53 10175.25 10188.53	-93.81 -94.46 -94.67 -95.10 -95.14	9975.70 10075.70 10108.97 10175.70 10188.97	0.00 0.00 0.00 0.00 0.00	exit BHL

	County: Wellbore:	Lea		STATE COM	732H		Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)				
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment			

Devon Energy APD VARIANCE DATA

OPERATOR NAME: Devon Energy

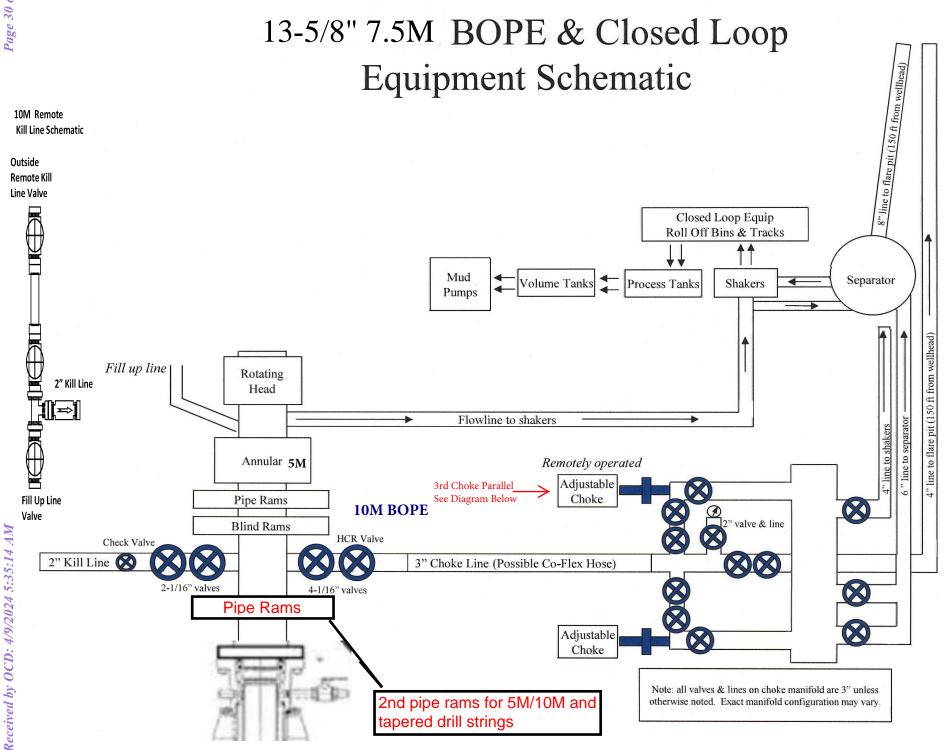
1. SUMMARY OF Variance:

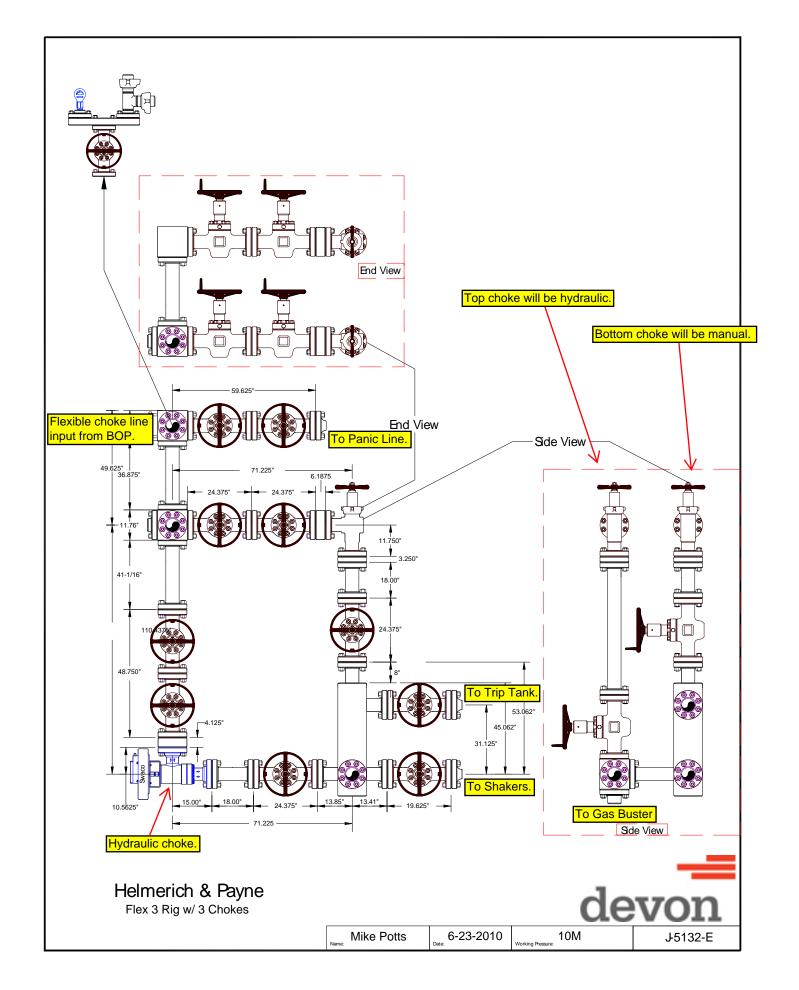
Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

- **1.** A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
 - **a.** After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - **b.** Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- **3.** A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 5. Drilling operation will be performed with the big rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - **a.** The BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.





Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD	Preventer	RWP
Drillpipe	4.5"	Fixed lower 4.5"	10M
		Upper 4.5-7" VBR	
HWDP	4.5"	Fixed lower 4.5"	10M
		Upper 4.5-7" VBR	
Drill collars and MWD tools	4.75"	Upper 4.5-7" VBR	10M
Mud Motor	4.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

6-3/4" Production hole section, 10M requirement

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP		
LEASE NO.:	NMNM086153		
LOCATION:	Section 21, T.23 S., R.32 E., NMPM		
COUNTY:	Lea County, New Mexico		
WELL NAME & NO.:	Floofy Cat 21-16 Fed State Com 731H		
SURFACE HOLE FOOTAGE:	350'/S & 850'/W		
BOTTOM HOLE FOOTAGE	20'/N & 990'/W		
ATS/API ID:	ATS-22-1379		
APD ID:	10400085796		
Sundry ID:	N/a		
WELL NAME & NO.:	Floofy Cat 21-16 Fed State Com 732H		
SURFACE HOLE FOOTAGE:	350'/S & 2340'/W		
BOTTOM HOLE FOOTAGE	20'/N & 2310'/W		
ATS/API ID:	ATS-22-1380		
APD ID:	10400085802		
Sundry ID:	N/a		
WELL NAME & NO.:	Floofy Cat 21-16 Fed State Com 733H		
SURFACE HOLE FOOTAGE:	200'/S & 2603'/E		
BOTTOM HOLE FOOTAGE	20'/N & 1650'/E		
ATS/API ID:	ATS-22-1381		
APD ID:	10400085814		
Sundry ID:	N/a		

COA

Approval Date: 03/22/2024

IIOC			
H2S	No <u> </u>		
Potash	None 🔽		
Cave/Karst	Low 🔫		
Potential			
Cave/Karst	Critical		
Potential			
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibowl		
Other	□ 4 String	Capitan Reef	□ WIPP
		None -	
		·	
Other	Pilot Hole	🗆 Open Annulus	
	None 🔽		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None	None 🔫	Squeeze
			Int 1 👻
Special	□ Water	COM	Unit Unit
Requirements	Disposal/Injection		
Special	Batch Sundry		
Requirements	-		
Special	Break Testing	□ Offline	Casing
Requirements		Cementing	Clearance
Variance			

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- The 10-3/4 inch surface casing shall be set at approximately 1315 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 13 1/2 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of

Page 2 of 10

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 $\underline{\mathbf{8}}$ <u>hours</u> 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 6910' (600 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 488 sxs Class C)

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. <u>Operator must run a CBL from TD of the 8-5/8" casing to surface.</u> <u>Submit results to the BLM.</u>

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

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

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

C. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. Annular which shall be tested to **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 OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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 Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Approval Date: 03/22/2024

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GENERAL REQUIREMENTS

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

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

Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

Lea 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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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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**

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part 3170 Subpart 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

LVO 8/17/2023



Devon Energy Center 333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

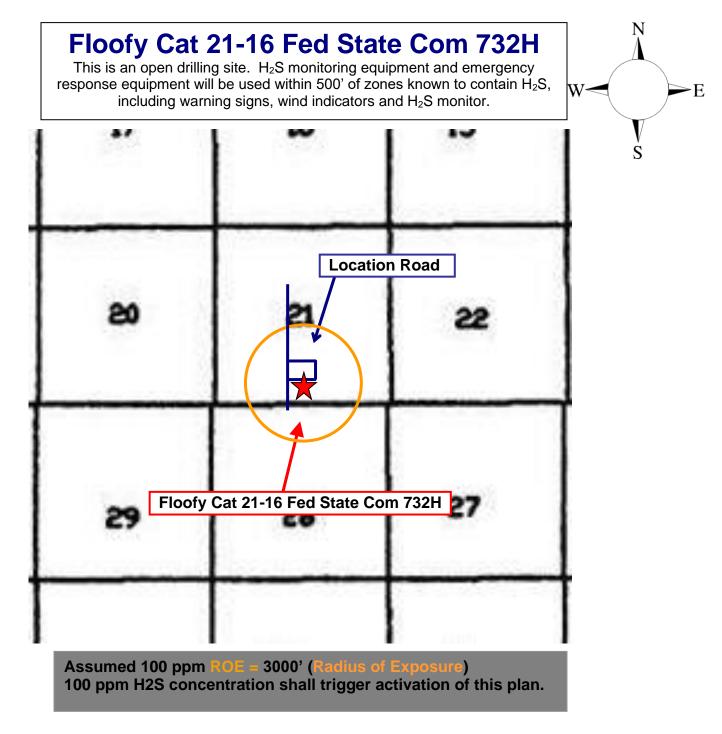
Hydrogen Sulfide (H₂S) Contingency Plan

For

Floofy Cat 21-16 Fed State Com 732H

Sec-21 T-23S R-32E 350 FSL & 2340' FWL LAT. = 32.2838052' N (NAD83) LONG = 103.6805852' W

Lea County NM



Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in or near the ROE</u>.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - \circ Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

011414010110					
Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal
Name	Formula	Gravity	Limit		Concentration
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur	50	2.21	2	N/A	1000
Dioxide	SO ₂	Air = 1	2 ppm		1000 ppm

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
 Possum Belly/Shale shaker
- Rig floor
 Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

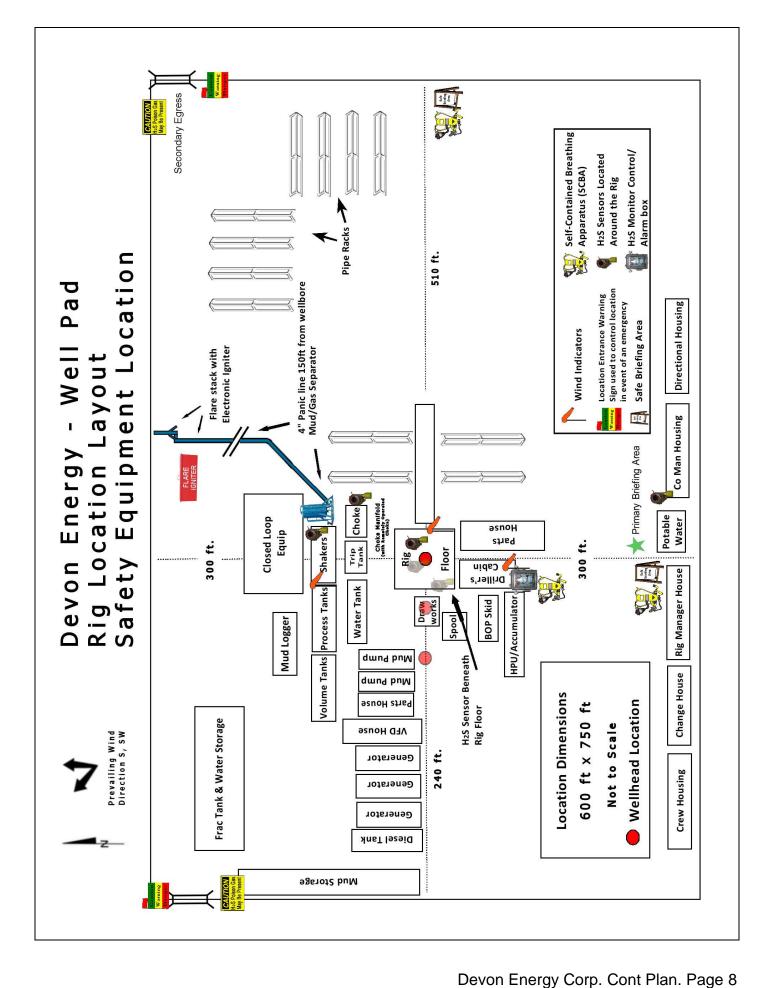
7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

<u>Devon En</u>	ergy Corp. Company Call List				
Drilling Su	upervisor – Basin – Mark Kramer 405-823-4				
EHS Profe	essional – Laura Wright		405-439-8129		
Agency	Call List				
Lea	Hobbs				
<u>County</u> (575)	Lea County Communication Authority State Police	<u>393-3981</u> 392-5588			
<u>(••••</u>	City Police		397-9265		
	Sheriff's Office		393-2515		
	Ambulance		911		
	Fire Department		397-9308		
	LEPC (Local Emergency Planning Co	ommittee)	393-2870		
	NMOCD	/	393-6161		
	US Bureau of Land Management		393-3612		
Eddy	Carlsbad				
County	State Police		885-3137		
(575)	City Police		885-2111		
	Sheriff's Office		887-7551		
	Ambulance	911			
	Fire Department	885-3125			
	LEPC (Local Emergency Planning Co	887-3798			
	US Bureau of Land Management	887-6544			
	NM Emergency Response Commission	(505) 476-9600			
	24 HR		(505) 827-9126		
	National Emergency Response Center	(800) 424-8802			
	National Pollution Control Center: Dir	(703) 872-6000			
	For Oil Spills	(800) 280-7118			
	Emergency Services				
	Wild Well Control		(281) 784-4700		
	Cudd Pressure Control	(915) 699- 0139	(915) 563-3356		
	Halliburton	-	(575) 746-2757		
	B. J. Services	(575) 746-3569			
Give	Native Air – Emergency Helicopter –	(575) 392-6429			
GPS	Flight For Life - Lubbock, TX	(806) 743-9911			
position:	Aerocare - Lubbock, TX	(806) 747-8923			
	Med Flight Air Amb - Albuquerque, N	(575) 842-4433			
	Lifeguard Air Med Svc. Albuquerque,	(800) 222-1222			
	Poison Control (24/7)	(575) 272-3115			
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366			
	NOAA – Website - www.nhc.noaa.go	V			



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

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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Action 331170

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	331170
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date		
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/24/2024		
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	4/24/2024		
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	4/24/2024		
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	4/24/2024		
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	4/24/2024		