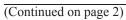
Form 3160-3 (June 2015)		OMB N	APPROVED o. 1004-0137 inuary 31, 2018
UNITED STATES DEPARTMENT OF THE INTER BUREAU OF LAND MANAGEM		5. Lease Serial No.	
APPLICATION FOR PERMIT TO DRILL		6. If Indian, Allotee	or Tribe Name
1a. Type of work: DRILL REENTED 1b. Type of Well: Oil Well Gas Well Other 1c. Type of Completion: Hydraulic Fracturing Single Zo		8. Lease Name and	reement, Name and No. Well No. [332766]
2. Name of Operator [6137]		9. API Well No.	30-025-50448
	one No. (include area code)	10. Field and Pool, o	or Exploratory [98248]
 4. Location of Well (<i>Report location clearly and in accordance with any</i> At surface At proposed prod. zone 	State requirements.*)	11. Sec., T. R. M. of	Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parisl	n 13. State
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		ing Unit dedicated to t //BIA Bond No. in file 23. Estimated durati	
24	Attachments		
The following, completed in accordance with the requirements of Onshor (as applicable)	re Oil and Gas Order No. 1, and the	Hydraulic Fracturing r	ule per 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 Lands SUPO must be filed with the appropriate Forest Service Office). 	 4. Bond to cover the operation Item 20 above). 5. Operator certification. 6. Such other site specific information BLM. 	5	C (
25. Signature	Name (Printed/Typed)		Date
Title			<u> </u>
Approved by (Signature)	Name (Printed/Typed)		Date
	Office		
Application approval does not warrant or certify that the applicant holds applicant to conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those rights	s in the subject lease w	hich would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a of the United States any false, fictitious or fraudulent statements or repres			any department or agency
NGMP Rec 07/05/2022		1	
	WITH CONDITIONS	0	KZ 8/11/2022
SL (Continued on page 2)	oto: 07/01/2022	*(In	structions on page 2)





Additional Operator Remarks

Location of Well

0. SHL: LOT 3 / 200 FNL / 2095 FWL / TWSP: 23S / RANGE: 32E / SECTION: 5 / LAT: 32.3402399 / LONG: -103.6985057 (TVD: 0 feet, MD: 0 feet) PPP: NESW / 2472 FSL / 1701 FWL / TWSP: 23S / RANGE: 32E / SECTION: 8 / LAT: 32.3184971 / LONG: -103.6998052 (TVD: 11999 feet, MD: 19800 feet) PPP: NENW / 109 FNL / 1719 FWL / TWSP: 23S / RANGE: 32E / SECTION: 8 / LAT: 32.3259186 / LONG: -103.6997535 (TVD: 11994 feet, MD: 17100 feet) PPP: LOT 3 / 100 FNL / 1650 FWL / TWSP: 23S / RANGE: 32E / SECTION: 5 / LAT: 32.34051 / LONG: -103.6999472 (TVD: 11910 feet, MD: 12045 feet) BHL: SESW / 20 FSL / 1650 FWL / TWSP: 23S / RANGE: 32E / SECTION: 17 / LAT: 32.2973349 / LONG: -103.6998708 (TVD: 12015 feet, MD: 27533 feet)

BLM Point of Contact

Name: Candy Vigil Title: LIE Phone: (575) 234-5982 Email: cvigil@blm.gov <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

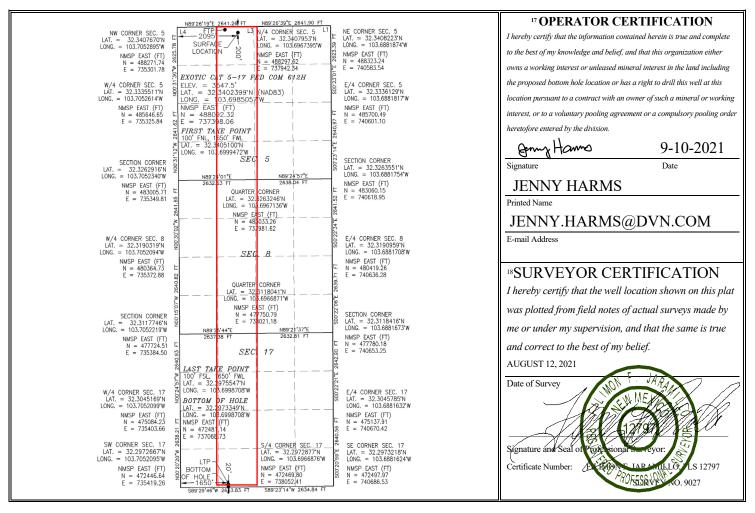
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

	API Number			² Pool Code ³ Pool Name							
30-025	5-50448			[9824	48] W	C-025 G-08 S2	43217P;UPF	R WC			
⁴ Property (-	⁵ Property	Name			⁶ Well Number		
33276	6			EX	OTIC CAT 5-	17 FED COM			612H		
⁷ OGRID	No.		⁸ Operator Name ⁹ Elevation								
6137			DEVON ENERGY PRODUCTION COMPANY, L.P. 3547.5								
	•				¹⁰ 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		
3	5	23 S	32 E		200	NORTH	2095	WEST	LEA		
			n F	Bottom H	lole 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		
Ν	17	23 S	32 E		20	SOUTH	1650	WEST	LEA		
12 Dedicated Acre	s ¹³ Joint	or Infill ¹⁴	Consolidation	n Code			¹⁵ Order No.				
479.47											

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.



Received by OCD: 7/5/2022 2:05:16 PM

Intent ^

As Drilled

API # 30-025-50448			
Operator Name:	Property Name	2:	Well Number
DEVON ENERGY PRODUC COMPANY, L.P.	CTION EXOTIC CA	5-17 FED COM	612H

Kick Off Point (KOP)

UL	Section 5	Township 23S	Range 32E	Lot	Feet 43 FNL	From N/S	Feet 1767 FW	From E/W	County LEA
Latitu 32.	^{de} 3405736	59			Longitude -103.699	65152			NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	5	23S	32E	3	100	NORTH	1650	WEST	LEA
Latitu 32.3	^{de} 840510	0			Longitude	9472			NAD 83

Last Take Point (LTP)

UL N	Section 17	Township 23S	Range 32E	Lot	Feet 100	From N/S SOUTH	^{Feet} 1650	From E/W WEST	County LEA
Latitude 32.2975547				0	Longitude 103.6998708			NAD	
32.2975547			103.0	103.6998708			83		

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

Is this well an infill well?

NO

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

	State of New MexicoSubmit ElectronicallyEnergy, Minerals and Natural Resources DepartmentVia E-permitting								
	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505								
	N	ATURAL G	AS MANA	GEMENT PI	LAN				
This Natural Gas Mana	gement Plan m	ust be submitted w	ith each Applica	tion for Permit to I	Drill (A)	PD) for a new o	r recompleted well.		
			1 – Plan D ffective May 25.						
I. Operator: DEVON EN	ERGY PRODUC	TION COMPANY, LP	OGRID: 613	37		Date: 7/	28 / 2021		
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	e:								
III. Well(s): Provide th be recompleted from a s					wells pr	roposed 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 attachment.									
V. Anticipated Schedu	IV. Central Delivery Point Name: See attachment [See 19.15.27.9(D)(1) NMAC] 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.								
Well Name API Spud Date TD Reached Completion Initial Flow First Production Date Commencement Date Back Date Date									
See attachment									
VI. Separation Equips VII. Operational Prac Subsection A through F VIII. Best Managemen	tices: 🖬 Attac of 19.15.27.8	ch a complete desc NMAC.	ription of the ac	tions Operator wil	l take t	o comply with t	the requirements of		
during active and plann		-	accomption of	Sperator 5 0000 II		Practices a			

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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 Gas nticipated Oil Produced Water entral Delivery Point Name Well Name ٩PI ULSTR FOOTAGES BBL/D MCF/D BBL/D (+/-) 3270mcfd/(+/-)1344bopd/(+/-)2353bwpd Exotic Cat 5-17 Fed Com 521H AVALON 5-23S-32E Exotic Cat 5 CTB 1 715 FWL 715 FNL Exotic Cat 5-17 Fed Com 522H AVALON 5-23S-32E 745 FWL 715 FNL (+/-) 3270mcfd/(+/-)1344bopd/(+/-)2353bwpd Exotic Cat 5 CTB 1 Exotic Cat 5-17 Fed Com 523H AVALON 5-23S-32E 775 FWL 715 FNI (+/-) 3270mcfd/(+/-)1344bopd/(+/-)2353bwpd (+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd Exotic Cat 5 CTB 1 Exotic Cat 5-17 Fed Com 611H WFMP 715 FWL 565 FNL 5-23S-32E Exotic Cat 5 CTB 1 xotic Cat 5-17 Fed Com 711H WFMP 5-23S-32E 745 FWL 565 FNL (+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd Exotic Cat 5 CTB 1 Exotic Cat 5-17 Fed Com 331H Exotic Cat 5-17 Fed Com 532H WFMP 5-23S-32E 775 FWL 565 350 FNL (+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd (+/-) 3270mcfd/(+/-)1344bopd/(+/-)2353bwpd Exotic Cat 5 CTB 1 AVALON 5-23S-32E 2125 FWL FNL Exotic Cat 5 CTB 2 Exotic Cat 5-17 Fed Com 533H AVALON 5-23S-32E 2155 FWL 350 FNL (+/-) 3270mcfd/(+/-)1344bopd/(+/-)2353bwpd Exotic Cat 5 CTB 2 30-025-50448 Exotic Cat 5-17 Fed Com 612H WFMP 5-23S-32E 2095 FWL 200 FNL (+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd Exotic Cat 5 CTB 2 (+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd (+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd (+/-) 5413mcfd/(+/-)1981bopd/(+/-)5339bwpd Exotic Cat 5-17 Fed Com 712H WFMP 5-23S-32E 2125 FWL 200 FNL Exotic Cat 5 CTB 2 Exotic Cat 5-17 Fed Com 332H WFMP 5-23S-32E 2155 FWI 200 FNI Exotic Cat 5 CTB 2

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
Exotic Cat 5-17 Fed Com 521H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 522H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 523H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 611H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 711H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 331H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 532H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 533H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 612H 30-C	25-50448	8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 712H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022
Exotic Cat 5-17 Fed Com 332H		8/2/2022	9/1/2022	12/30/2022	12/30/2022	12/30/2022

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.

Section 3 - Certifications Effective May 25, 2021

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.
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. □ 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.

Si	gnatòre:
Pr	inted Name: Lindsey Miles
Ti	^{tle:} Land Manager
E-	mail Address:
Da	ate:
Ph	none:
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
A	pproved By:
Ti	tle:
A	oproval Date:
Co	onditions of Approval:



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



VIII. Best Management Practices during Maintenance

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.

1. Geologic Formations

TVD of target	12015	Pilot hole depth	N/A
MD at TD:	27533	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1023		
Salt	1351		
Base of Salt	4483		
Delaware	4668		
Cherry Canyon	5586		
Brushy Canyon	6858		
1st Bone Spring Lime	8525		
Avalon B	8950		
Bone Spring 1st	9684		
2nd Bone Spring Silt	9950		
Bone Spring 2nd	10260		
3rd Bone Spring Lime	10780		
Bone Spring 3rd	11510		
Wolfcamp	11910		

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

.

2. Casing Program (Primary Design)

	Csg. Size	Wt (PPF)	Grade C		Casing	Interval	Casing Interval	
Hole Size				Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	1048	0	1048
9 7/8	8 5/8	32	P110	TLW	0	11510	0	11510
7 7/8	5 1/2	17	P110	BTC	0	27533	0	12015

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

3. Cementing Program (Primary Design)

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	797	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	477	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	477	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	9441	9	3.27	Lead: Class H /C + additives
Fioduction	2130	11441	13.2	1.44	Tail: Class H / C + additives

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	~	Tested to:																																												
			Annular		X	50% of rated working pressure																																												
Int 1	13-58"	5M		d Ram	Х																																													
	15-50	5101	-	e Ram		5M																																												
			Doub	le Ram	Х	5101																																												
			Other*																																															
	13-5/8"	1014	Annul	ar (5M)	X	100% of rated working pressure																																												
Production			Blind Ram		Х																																													
Production		15-5/8	15-5/8	13-5/8	13-5/8 10M	13-3/8 10M	15-5/8 10W	10M	TOM	10101	10101	13-3/8 10M	5/8 10M	10101	10101	10101	10101	10101	10101	10101	10101	10101	10101	10101	10101	10101	10111	1011	10101	10101	10101	10101	10101	10101	10101	10101	10101	1011	10101	10111	10111	10111	10111	10111	1011	1011	10101	Pipe	e Ram	
			Doub	le Ram	X	10101																																												
			Other*																																															
			Annul	ar (5M)																																														
			Blin	d Ram																																														
			Pipe Ram																																															
			Doub	le Ram																																														
			Other*																																															
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.																																																	
Y A variance is requested to :	A variance is requested to run a 5 M annular on a 10M system																																																	

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 Wontoring

6. Logging and Testing Procedures

Logging, C	Logging, Coring and Testing					
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the					
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	6560
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.

IN 112	2S is present
Y H2	2S 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

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
6974435	UNKNOWN	3536	0	Ö	ALLUVIUM, OTHER : Surface	NONE	Ν
6974436	RUSTLER	2513	1023	1023	SANDSTONE	NONE	N
6974440	TOP SALT	2185	1351	1351	SALT	NONE	N
6974438	BASE OF SALT	-947	4483	4483	SALT	NONE	Ν
6974444	BELL CANYON	-1132	4668	4668	SANDSTONE	NATURAL GAS, OIL	Ν
6974445	CHERRY CANYON	-2050	5586	5586	SANDSTONE	NATURAL GAS, OIL	N
6974446	BRUSHY CANYON	-3322	6858	6858	SANDSTONE	NATURAL GAS, OIL	N
6974447	BONE SPRING LIME	-4989	8525	8525	LIMESTONE	NATURAL GAS, OIL	N
6974437	BONE SPRING	-6148	9684	9684	SANDSTONE	NATURAL GAS, OIL	N
6974434	BONE SPRING 2ND	-6724	10260	10260	SANDSTONE	NATURAL GAS, OIL	N
6974448	BONE SPRING LIME	-7244	10780	10780	LIMESTONE	NATURAL GAS, OIL	N
6974450	WOLFCAMP	-8374	11910	11910	SANDSTONE	NATURAL GAS, OIL	Y
6974451	STRAWN	-10042	13578	13578	LIMESTONE	NATURAL GAS, OIL	N

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.

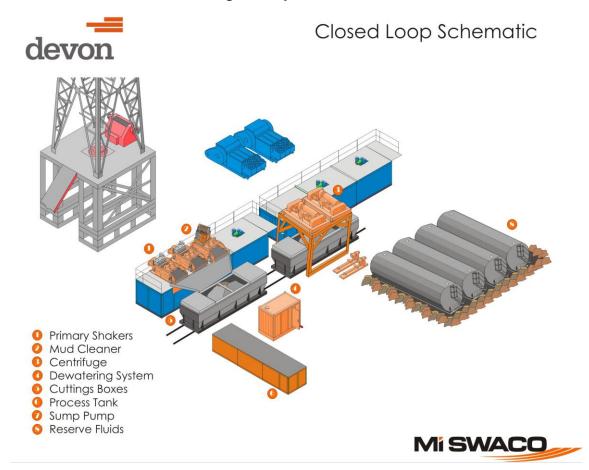
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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

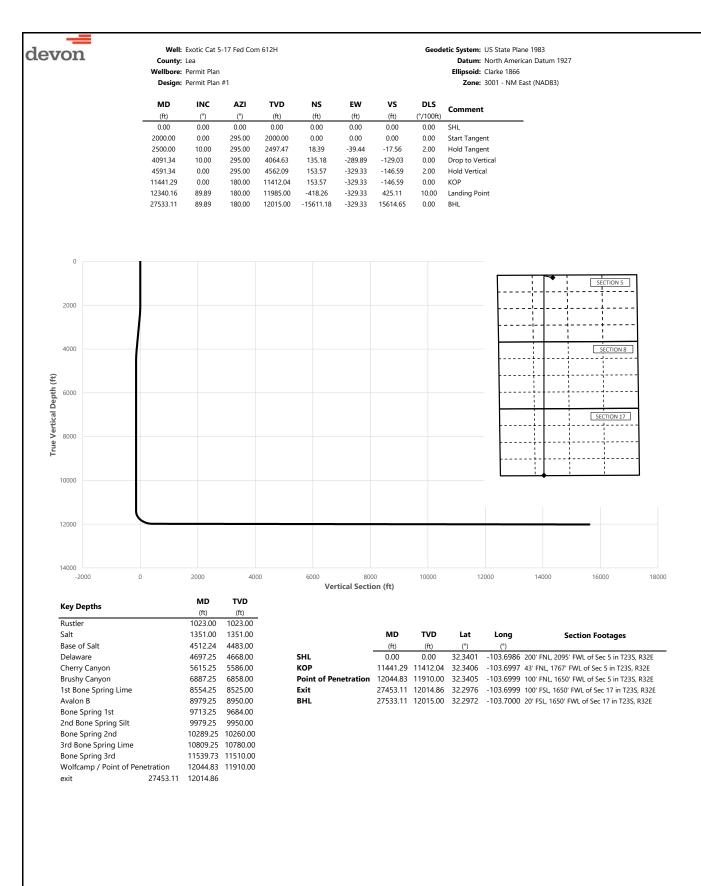
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

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.



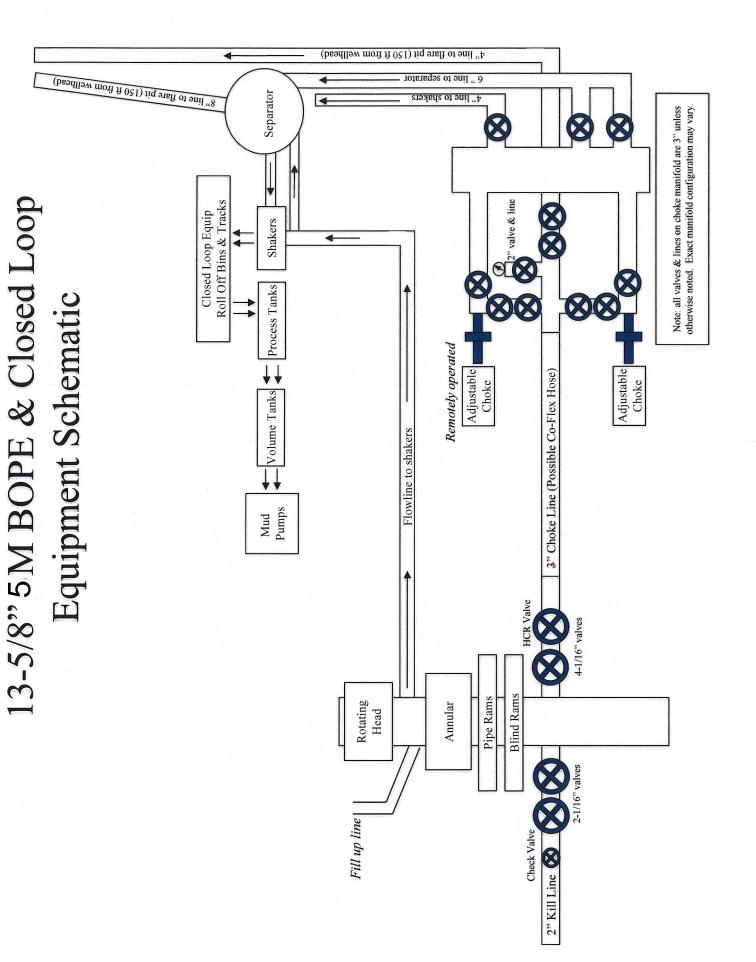
				475.10	64011				
devon		Well: County:		5-17 Fed Com	612H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plan	1					Ellipsoid: Clarke 1866
			Permit Plan						Zone: 3001 - NM East (NAD83)
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
	100.00	0.00	295.00	100.00	0.00	0.00	0.00	0.00	
	200.00	0.00	295.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	295.00	300.00	0.00	0.00	0.00	0.00	
	400.00 500.00	0.00 0.00	295.00 295.00	400.00 500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	600.00	0.00	295.00	600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	295.00	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	295.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	295.00	900.00	0.00	0.00	0.00	0.00	
	1000.00 1023.00	0.00 0.00	295.00 295.00	1000.00 1023.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	Rustler
	1100.00	0.00	295.00	1100.00	0.00	0.00	0.00	0.00	Kustiel
	1200.00	0.00	295.00	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	295.00	1300.00	0.00	0.00	0.00	0.00	
	1351.00	0.00	295.00	1351.00	0.00	0.00	0.00	0.00	Salt
	1400.00	0.00	295.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00 1600.00	0.00 0.00	295.00 295.00	1500.00 1600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1700.00	0.00	295.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	295.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	295.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	295.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00 2200.00	2.00 4.00	295.00 295.00	2099.98 2199.84	0.74 2.95	-1.58 -6.32	-0.70 -2.82	2.00 2.00	
	2200.00	4.00 6.00	295.00	2199.64	6.63	-0.52	-2.82	2.00	
	2400.00	8.00	295.00	2398.70	11.78	-25.27	-11.25	2.00	
	2500.00	10.00	295.00	2497.47	18.39	-39.44	-17.56	2.00	Hold Tangent
	2600.00	10.00	295.00	2595.95	25.73	-55.18	-24.56	0.00	
	2700.00 2800.00	10.00	295.00 295.00	2694.43 2792.91	33.07 40.41	-70.92	-31.57 -38.57	0.00 0.00	
	2900.00	10.00 10.00	295.00	2891.39	40.41	-86.66 -102.40	-36.57 -45.58	0.00	
	3000.00	10.00	295.00	2989.87	55.09	-118.13	-52.58	0.00	
	3100.00	10.00	295.00	3088.35	62.43	-133.87	-59.59	0.00	
	3200.00	10.00	295.00	3186.83	69.76	-149.61	-66.59	0.00	
	3300.00	10.00	295.00	3285.31	77.10	-165.35	-73.60	0.00	
	3400.00 3500.00	10.00 10.00	295.00 295.00	3383.79 3482.27	84.44 91.78	-181.09 -196.82	-80.60 -87.61	0.00 0.00	
	3600.00	10.00	295.00	3580.75	99.12	-212.56	-94.61	0.00	
	3700.00	10.00	295.00	3679.23	106.46	-228.30	-101.62	0.00	
	3800.00	10.00	295.00	3777.72	113.80	-244.04	-108.62	0.00	
	3900.00 4000.00	10.00 10.00	295.00	3876.20 3974.68	121.13 128.47	-259.78	-115.63	0.00 0.00	
	4000.00	10.00	295.00 295.00	4064.63	135.18	-275.51 -289.89	-122.63 -129.03	0.00	Drop to Vertical
	4100.00	9.83	295.00	4073.16	135.81	-291.24	-129.63	2.00	
	4200.00	7.83	295.00	4171.97	142.29	-305.15	-135.82	2.00	
	4300.00	5.83	295.00	4271.26	147.31	-315.92	-140.62	2.00	
	4400.00	3.83	295.00	4370.90	150.87	-323.54	-144.01	2.00	
	4500.00 4512.24	1.83 1.58	295.00 295.00	4470.77 4483.00	152.95 153.11	-328.01 -328.34	-146.00 -146.15	2.00 2.00	Base of Salt
	4591.34	0.00	295.00	4463.00	153.57	-329.33	-146.59	2.00	Hold Vertical
	4600.00	0.00	180.00	4570.75	153.57	-329.33	-146.59	0.00	
	4697.25	0.00	180.00	4668.00	153.57	-329.33	-146.59	0.00	Delaware
	4700.00	0.00	180.00	4670.75	153.57	-329.33	-146.59 -146.59	0.00	
	4800.00 4900.00	0.00 0.00	180.00 180.00	4770.75 4870.75	153.57 153.57	-329.33 -329.33	-146.59 -146.59	0.00 0.00	
	5000.00	0.00	180.00	4970.75	153.57	-329.33	-146.59	0.00	
	5100.00	0.00	180.00	5070.75	153.57	-329.33	-146.59	0.00	
	5200.00	0.00	180.00	5170.75	153.57	-329.33	-146.59	0.00	
	5300.00	0.00	180.00	5270.75	153.57	-329.33	-146.59	0.00	
	5400.00	0.00	180.00	5370.75	153.57	-329.33	-146.59	0.00	
	5500.00 5600.00	0.00 0.00	180.00 180.00	5470.75 5570.75	153.57 153.57	-329.33 -329.33	-146.59 -146.59	0.00 0.00	
	5615.25	0.00	180.00	5586.00	153.57	-329.33	-146.59	0.00	Cherry Canyon
	5700.00	0.00	180.00	5670.75	153.57	-329.33	-146.59	0.00	
	5800.00	0.00	180.00	5770.75	153.57	-329.33	-146.59	0.00	
	5900.00	0.00	180.00	5870.75	153.57	-329.33	-146.59	0.00	
	6000.00 6100.00	0.00 0.00	180.00 180.00	5970.75 6070.75	153.57 153.57	-329.33 -329.33	-146.59 -146.59	0.00 0.00	
	6200.00	0.00	180.00	6170.75	153.57	-329.33	-146.59	0.00	

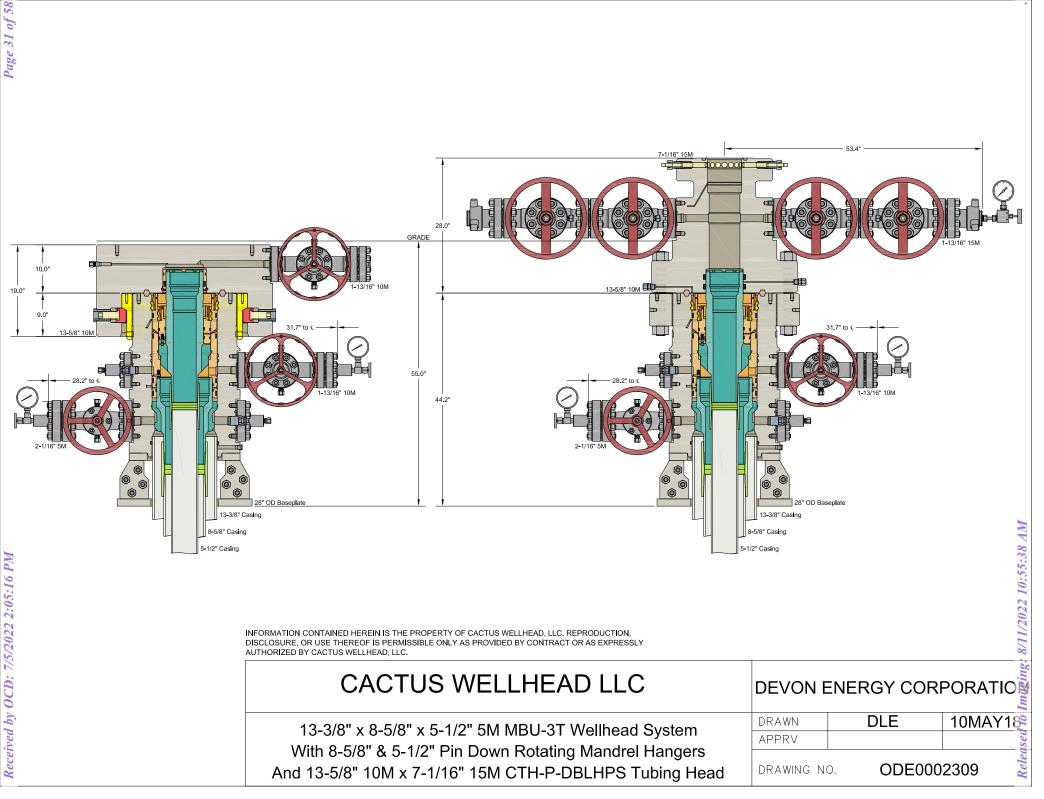
evon		Well: County:		-17 Fed Com	612H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927		
			Permit Plar Permit Plar						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)		
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment		
-	6300.00	0.00	180.00	6270.75	153.57	-329.33	-146.59	0.00			
	6400.00	0.00	180.00	6370.75	153.57	-329.33	-146.59	0.00			
	6500.00	0.00	180.00	6470.75	153.57	-329.33	-146.59	0.00			
	6600.00	0.00	180.00	6570.75	153.57	-329.33	-146.59	0.00			
	6700.00	0.00	180.00	6670.75	153.57	-329.33	-146.59	0.00			
	6800.00	0.00	180.00	6770.75	153.57	-329.33	-146.59	0.00	Brushu Canuan		
	6887.25 6900.00	0.00 0.00	180.00 180.00	6858.00 6870.75	153.57 153.57	-329.33 -329.33	-146.59 -146.59	0.00 0.00	Brushy Canyon		
	7000.00	0.00	180.00	6970.75	153.57	-329.33	-146.59	0.00			
	7100.00	0.00	180.00	7070.75	153.57	-329.33	-146.59	0.00			
	7200.00	0.00	180.00	7170.75	153.57	-329.33	-146.59	0.00			
	7300.00	0.00	180.00	7270.75	153.57	-329.33	-146.59	0.00			
	7400.00	0.00	180.00	7370.75	153.57	-329.33	-146.59	0.00			
	7500.00	0.00	180.00	7470.75	153.57	-329.33	-146.59	0.00			
	7600.00	0.00	180.00	7570.75	153.57	-329.33	-146.59	0.00			
	7700.00	0.00	180.00	7670.75	153.57	-329.33	-146.59	0.00			
	7800.00	0.00	180.00	7770.75	153.57	-329.33	-146.59	0.00			
	7900.00	0.00	180.00	7870.75	153.57	-329.33	-146.59	0.00			
	8000.00 8100.00	0.00 0.00	180.00 180.00	7970.75 8070.75	153.57 153.57	-329.33 -329.33	-146.59 -146.59	0.00 0.00			
	8200.00	0.00	180.00	8170.75	153.57	-329.33	-146.59	0.00			
	8300.00	0.00	180.00	8270.75	153.57	-329.33	-146.59	0.00			
	8400.00	0.00	180.00	8370.75	153.57	-329.33	-146.59	0.00			
	8500.00	0.00	180.00	8470.75	153.57	-329.33	-146.59	0.00			
	8554.25	0.00	180.00	8525.00	153.57	-329.33	-146.59	0.00	1st Bone Spring Lime		
	8600.00	0.00	180.00	8570.75	153.57	-329.33	-146.59	0.00			
	8700.00	0.00	180.00	8670.75	153.57	-329.33	-146.59	0.00			
	8800.00	0.00	180.00	8770.75	153.57	-329.33	-146.59	0.00			
	8900.00 8979.25	0.00 0.00	180.00 180.00	8870.75 8950.00	153.57 153.57	-329.33 -329.33	-146.59	0.00	Avalan P		
	9000.00	0.00	180.00	8950.00 8970.75	153.57	-329.33	-146.59 -146.59	0.00 0.00	Avalon B		
	9100.00	0.00	180.00	9070.75	153.57	-329.33	-146.59	0.00			
	9200.00	0.00	180.00	9170.75	153.57	-329.33	-146.59	0.00			
	9300.00	0.00	180.00	9270.75	153.57	-329.33	-146.59	0.00			
	9400.00	0.00	180.00	9370.75	153.57	-329.33	-146.59	0.00			
	9500.00	0.00	180.00	9470.75	153.57	-329.33	-146.59	0.00			
	9600.00	0.00	180.00	9570.75	153.57	-329.33	-146.59	0.00			
	9700.00	0.00	180.00	9670.75	153.57	-329.33	-146.59	0.00			
	9713.25	0.00	180.00	9684.00	153.57	-329.33	-146.59	0.00	Bone Spring 1st		
	9800.00	0.00	180.00	9770.75	153.57	-329.33	-146.59	0.00			
	9900.00 9979.25	0.00 0.00	180.00 180.00	9870.75 9950.00	153.57	-329.33 -329.33	-146.59	0.00 0.00	and Ropp Carring Cilt		
	10000.00	0.00	180.00	9950.00 9970.75	153.57 153.57	-329.33	-146.59 -146.59	0.00	2nd Bone Spring Silt		
	10100.00	0.00	180.00	10070.75	153.57	-329.33	-146.59	0.00			
	10200.00	0.00	180.00	10170.75	153.57	-329.33	-146.59	0.00			
	10289.25	0.00	180.00	10260.00	153.57	-329.33	-146.59	0.00	Bone Spring 2nd		
	10300.00	0.00	180.00	10270.75	153.57	-329.33	-146.59	0.00			
	10400.00	0.00	180.00	10370.75	153.57	-329.33	-146.59	0.00			
	10500.00	0.00	180.00	10470.75	153.57	-329.33	-146.59	0.00			
	10600.00	0.00	180.00	10570.75	153.57	-329.33	-146.59	0.00			
	10700.00	0.00	180.00	10670.75	153.57	-329.33	-146.59	0.00			
	10800.00	0.00	180.00	10770.75	153.57 153.57	-329.33 -329.33	-146.59 -146.59	0.00	3rd Bone Spring Lime		
	10809.25 10900.00	0.00 0.00	180.00 180.00	10780.00 10870.75	153.57 153.57	-329.33 -329.33	-146.59 -146.59	0.00 0.00	Sid boile Spring Line		
	11000.00	0.00	180.00	10870.75	153.57	-329.33	-146.59	0.00			
	11100.00	0.00	180.00	11070.75	153.57	-329.33	-146.59	0.00			
	11200.00	0.00	180.00	11170.75	153.57	-329.33	-146.59	0.00			
	11300.00	0.00	180.00	11270.75	153.57	-329.33	-146.59	0.00			
	11400.00	0.00	180.00	11370.75	153.57	-329.33	-146.59	0.00			
	11441.29	0.00	180.00	11412.04	153.57	-329.33	-146.59	0.00	КОР		
	11500.00	5.87	180.00	11470.65	150.56	-329.33	-143.58	10.00			
	11539.73	9.84	180.00	11510.00	145.13	-329.33	-138.16	10.00	Bone Spring 3rd		
	11600.00	15.87	180.00	11568.73	131.73	-329.33	-124.75	10.00			
	11700.00	25.87	180.00	11662.05	96.15	-329.33	-89.18	10.00			
	11800.00	35.87	180.00	11747.78	44.90	-329.33	-37.94	10.00			
	11900.00 12000.00	45.87 55.87	180.00 180.00	11823.30 11886 33	-20.45	-329.33	27.39 104.85	10.00 10.00			
	12000.00	55.87 60.35	180.00	11886.33 11910.00	-97.93 -135.98	-329.33 -329.33	104.85 142.90	10.00	Wolfcamp / Point of Penetration		
	12044.83	65.87	180.00	11910.00	-135.98	-329.33	192.07	10.00	Woncamp / Foint of Feneration		
		00.07		11967.67	-279.53	-329.33	286.41	10.00			

devon				5-17 Fed Com	612H					US State Plane 1983
		County: Wellbore:	Lea Permit Plar	1						North American Datum 1927 Clarke 1866
			Permit Plar							3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	6	
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
	12300.00 12340.16	85.87 89.89	180.00 180.00	11983.51 11985.00	-378.13 -418.26	-329.33 -329.33	385.00 425.11	10.00 10.00	Landing Point	
	12400.00	89.89	180.00	11985.12	-478.10	-329.33	484.94	0.00	Landing Form	
	12500.00	89.89	180.00	11985.32	-578.10	-329.33	584.92	0.00		
	12600.00	89.89	180.00	11985.51	-678.10	-329.33	684.89	0.00		
	12700.00 12800.00	89.89 89.89	180.00 180.00	11985.71 11985.91	-778.10 -878.10	-329.33 -329.33	784.87 884.85	0.00 0.00		
	12900.00	89.89	180.00	11986.11	-978.10	-329.33	984.83	0.00		
	13000.00	89.89	180.00	11986.30	-1078.10	-329.33	1084.80	0.00		
	13100.00	89.89	180.00	11986.50	-1178.10	-329.33	1184.78	0.00		
	13200.00 13300.00	89.89 89.89	180.00 180.00	11986.70 11986.90	-1278.10 -1378.10	-329.33 -329.33	1284.76 1384.74	0.00 0.00		
	13400.00	89.89	180.00	11987.09	-1478.10	-329.33	1484.71	0.00		
	13500.00	89.89	180.00		-1578.10	-329.33	1584.69	0.00		
	13600.00	89.89	180.00	11987.49	-1678.10	-329.33	1684.67	0.00		
	13700.00 13800.00	89.89 89.89	180.00 180.00	11987.69 11987.88	-1778.10 -1878.10	-329.33 -329.33	1784.65 1884.63	0.00 0.00		
	13900.00	89.89	180.00	11988.08	-1978.10	-329.33	1984.60	0.00		
	14000.00	89.89	180.00	11988.28	-2078.10	-329.33	2084.58	0.00		
	14100.00	89.89	180.00	11988.48	-2178.10	-329.33	2184.56	0.00		
	14200.00 14300.00	89.89 89.89	180.00 180.00	11988.67 11988.87	-2278.10 -2378.10	-329.33 -329.33	2284.54 2384.51	0.00 0.00		
	14400.00	89.89	180.00	11989.07	-2478.10	-329.33	2484.49	0.00		
	14500.00	89.89	180.00	11989.27	-2578.10	-329.33	2584.47	0.00		
	14600.00	89.89	180.00	11989.47	-2678.10	-329.33	2684.45	0.00		
	14700.00 14800.00	89.89 89.89	180.00 180.00	11989.66 11989.86	-2778.09 -2878.09	-329.33 -329.33	2784.42 2884.40	0.00 0.00		
	14900.00	89.89	180.00	11990.06	-2978.09	-329.33	2984.38	0.00		
	15000.00	89.89	180.00	11990.26	-3078.09	-329.33	3084.36	0.00		
	15100.00 15200.00	89.89 89.89	180.00 180.00	11990.45 11990.65	-3178.09 -3278.09	-329.33 -329.32	3184.33 3284.31	0.00 0.00		
	15300.00	89.89	180.00	11990.85	-3378.09	-329.32	3384.29	0.00		
	15400.00	89.89	180.00	11991.05	-3478.09	-329.32	3484.27	0.00		
	15500.00	89.89	180.00	11991.24	-3578.09	-329.32	3584.24	0.00		
	15600.00 15700.00	89.89 89.89	180.00 180.00	11991.44 11991.64	-3678.09 -3778.09	-329.32 -329.32	3684.22 3784.20	0.00 0.00		
	15800.00	89.89	180.00	11991.84	-3878.09	-329.32	3884.18	0.00		
	15900.00	89.89	180.00	11992.03	-3978.09	-329.32	3984.15	0.00		
	16000.00	89.89	180.00	11992.23	-4078.09	-329.32	4084.13	0.00		
	16100.00 16200.00	89.89 89.89	180.00 180.00	11992.43 11992.63	-4178.09 -4278.09	-329.32 -329.32	4184.11 4284.09	0.00 0.00		
	16300.00	89.89	180.00		-4378.09	-329.32	4384.06	0.00		
	16400.00	89.89	180.00	11993.02	-4478.09	-329.32	4484.04	0.00		
	16500.00	89.89	180.00		-4578.09	-329.32	4584.02 4684.00	0.00		
	16600.00 16700.00	89.89 89.89	180.00 180.00	11993.42 11993.61	-4678.09 -4778.09	-329.32 -329.32	4684.00 4783.97	0.00 0.00		
	16800.00	89.89	180.00	11993.81	-4878.09	-329.32	4883.95	0.00		
	16900.00	89.89	180.00	11994.01	-4978.09	-329.32	4983.93	0.00		
	17000.00 17100.00	89.89 89.89	180.00	11994.21 11994.41	-5078.09 -5178.09	-329.32 -329.32	5083.91	0.00 0.00		
	17200.00	89.89	180.00 180.00	11994.41	-5278.09	-329.32	5183.88 5283.86	0.00		
	17300.00	89.89	180.00		-5378.09	-329.32	5383.84	0.00		
	17400.00	89.89	180.00		-5478.09	-329.32	5483.82	0.00		
	17500.00 17600.00	89.89 89.89	180.00 180.00	11995.20 11995.39	-5578.09 -5678.09	-329.32 -329.32	5583.79 5683.77	0.00 0.00		
	17700.00	89.89	180.00	11995.59	-5778.09	-329.32	5783.75	0.00		
	17800.00	89.89	180.00	11995.79	-5878.09	-329.32	5883.73	0.00		
	17900.00	89.89	180.00	11995.99	-5978.09	-329.32	5983.70	0.00		
	18000.00 18100.00	89.89 89.89	180.00 180.00	11996.18 11996.38	-6078.09	-329.32	6083.68 6183.66	0.00 0.00		
	18100.00	89.89 89.89	180.00	11996.38	-6178.09 -6278.09	-329.32 -329.32	6183.66 6283.64	0.00		
	18300.00	89.89	180.00	11996.78	-6378.09	-329.32	6383.62	0.00		
	18400.00	89.89	180.00	11996.97	-6478.09	-329.32	6483.59	0.00		
	18500.00	89.89 80.80	180.00	11997.17	-6578.09	-329.32	6583.57	0.00		
	18600.00 18700.00	89.89 89.89	180.00 180.00	11997.37 11997.57	-6678.09 -6778.09	-329.32 -329.32	6683.55 6783.53	0.00 0.00		
	18800.00	89.89	180.00	11997.76	-6878.09	-329.32	6883.50	0.00		
	18900.00	89.89	180.00	11997.96	-6978.09	-329.31	6983.48	0.00		
	19000.00 19100.00	89.89 89.89	180.00 180.00	11998.16 11998.36	-7078.09 -7178.09	-329.31 -329.31	7083.46 7183.44	0.00 0.00		
	15100.00	09.09	100.00	05.06611	1110.03	563.31	1105.44	0.00		

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nd C C N N N N N N 1900.00 969 10001 11985 770.00 -2331 781.33 0.00 1900.00 869 1000 11984 770.00 -2331 781.33 0.00 1900.00 869 1000 11994 770.00 -2331 783.32 0.00 1900.00 869 1000 11994 770.00 -2331 785.32 0.00 2000.00 869 1000 100014 770.00 -2331 855.31 0.00 2000.00 869 1000 100014 -770.80 -2331 855.11 0.00 2000.00 869 1000 100013 -770.80 -2331 855.11 0.00 2000.00 869 1000 120017 877.80 -2331 855.10 0.00 2000.00 869 1000 120017 877.80 -2331 855.10 0.00 <			Design:	Permit Plar	n #1					Zone: 3001 - NM East (NAD83)
nd C C N N N N N N 1900.00 969 10001 11985 770.00 -2331 781.33 0.00 1900.00 869 1000 11984 770.00 -2331 781.33 0.00 1900.00 869 1000 11994 770.00 -2331 783.32 0.00 1900.00 869 1000 11994 770.00 -2331 785.32 0.00 2000.00 869 1000 100014 770.00 -2331 855.31 0.00 2000.00 869 1000 100014 -770.80 -2331 855.11 0.00 2000.00 869 1000 100013 -770.80 -2331 855.11 0.00 2000.00 869 1000 120017 877.80 -2331 855.10 0.00 2000.00 869 1000 120017 877.80 -2331 855.10 0.00 <		MD	INC	A71	TVD	NS	FW	vs	DIS	
193000 8489 8100 19487 72700 22831 78339 000 195000 849 1000 19494 77700 2311 78133 000 195000 859 1000 19934 77700 2311 78133 000 195000 859 1000 19934 77604 2331 78138 000 200000 889 1000 109947 77604 2331 78138 000 200000 889 1000 100014 477040 2331 88132 000 200000 889 1000 100014 477040 2331 88132 000 200000 889 1000 100017 477040 2331 85112 000 207000 889 1000 100017 477040 2331 85132 000 207000 889 1000 100017 97708 2331 85132 000 207000 889 1000										Comment
14.0000 84.89 16.00 1995. 7.7700 7.23.31 783.33 0.00 190000 85.90 16.00 1993.4 7.7700 7.23.31 783.33 0.00 190000 85.90 16.00 1993.4 7.7700 7.23.31 783.33 0.00 190000 85.90 16.00 1993.4 7.7700 7.23.31 783.33 0.00 200000 85.90 16.000 170.00 7.7700 7.23.31 783.23 0.00 201000 85.90 16.000 170.003 877.800 7.23.31 188.32 0.00 201000 85.90 16.000 170.003 877.800 7.23.31 188.31 0.00 201000 85.90 16.000 170.013 877.800 7.23.31 883.13 0.00 201000 85.90 16.000 170.013 877.800 7.23.31 883.13 0.00 210000 85.90 16.000 170.013 877.800 7.23.31 983.03 0.00 210000 85.90 16.000 170.013 877.800 7.23.31 983.03 0.00 210000 85.90 16.000 170.013 177.800 7.23.31										
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		26100.00	89.89	180.00	12012.19	-14178.07	-329.30	14181.86	0.00	

		Exotic Cat	Geodetic System: US State Plane 1983						
	County:							Datum: North American	Datum 1927
		Permit Plar			Ellipsoid: Clarke 1866				
	Design:	Permit Plar	n #1		Zone: 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
26200.00	89.89	180.00	12012.39	-14278.07	-329.30	14281.84	0.00		
26300.00	89.89	180.00	12012.58	-14378.07	-329.30	14381.82	0.00		
26400.00	89.89	180.00	12012.78	-14478.07	-329.30	14481.80	0.00		
26500.00	89.89	180.00	12012.98	-14578.07	-329.29	14581.77	0.00		
26600.00	89.89	180.00	12013.18	-14678.07	-329.29	14681.75	0.00		
26700.00	89.89	180.00	12013.37	-14778.07	-329.29	14781.73	0.00		
26800.00	89.89	180.00	12013.57	-14878.07	-329.29	14881.71	0.00		
26900.00	89.89	180.00	12013.77	-14978.07	-329.29	14981.68	0.00		
27000.00	89.89	180.00	12013.97	-15078.07	-329.29	15081.66	0.00		
27100.00	89.89	180.00	12014.16	-15178.07	-329.29	15181.64	0.00		
27200.00	89.89	180.00	12014.36	-15278.07	-329.29	15281.62	0.00		
27300.00	89.89	180.00	12014.56	-15378.07	-329.29	15381.59	0.00		
27400.00	89.89	180.00	12014.76	-15478.07	-329.29	15481.57	0.00		
27453.11	89.89	180.00	12014.86	-15531.18	-329.29	15534.67	0.00	exit	
27500.00	89.89	180.00	12014.95	-15578.07	-329.29	15581.55	0.00		
27533.11	89.89	180.00	12015.00	-15611.18	-329.33	15614.65	0.00	BHL	





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.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (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.

General Procedure While Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in (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 compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram.
 - d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper pipe ram.
 - f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon proposes using a multi-bowl wellhead assembly. 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.

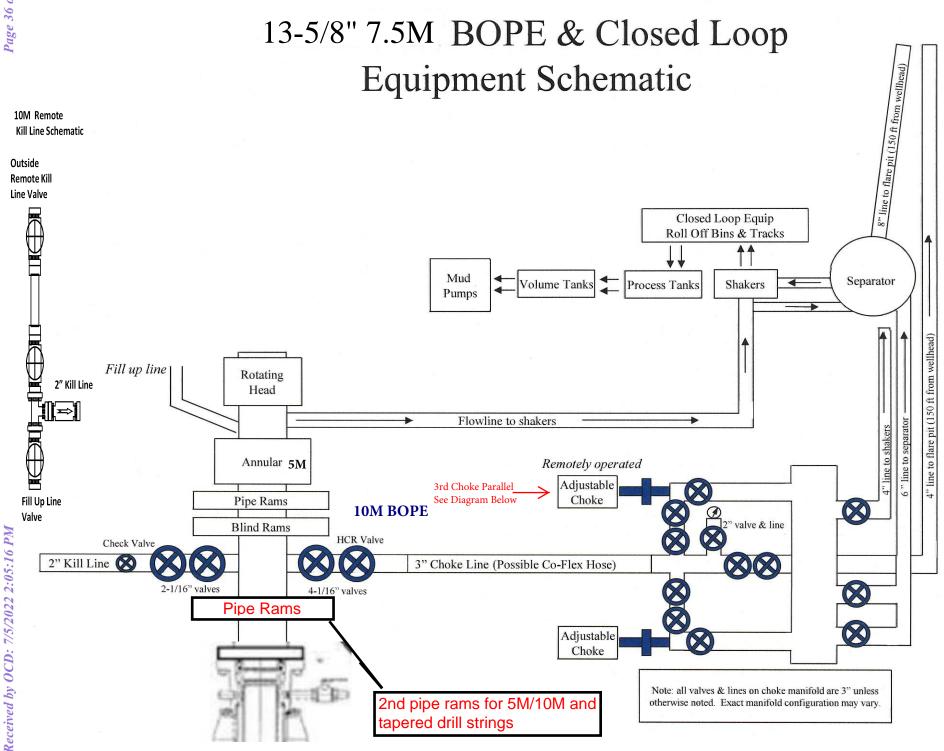
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

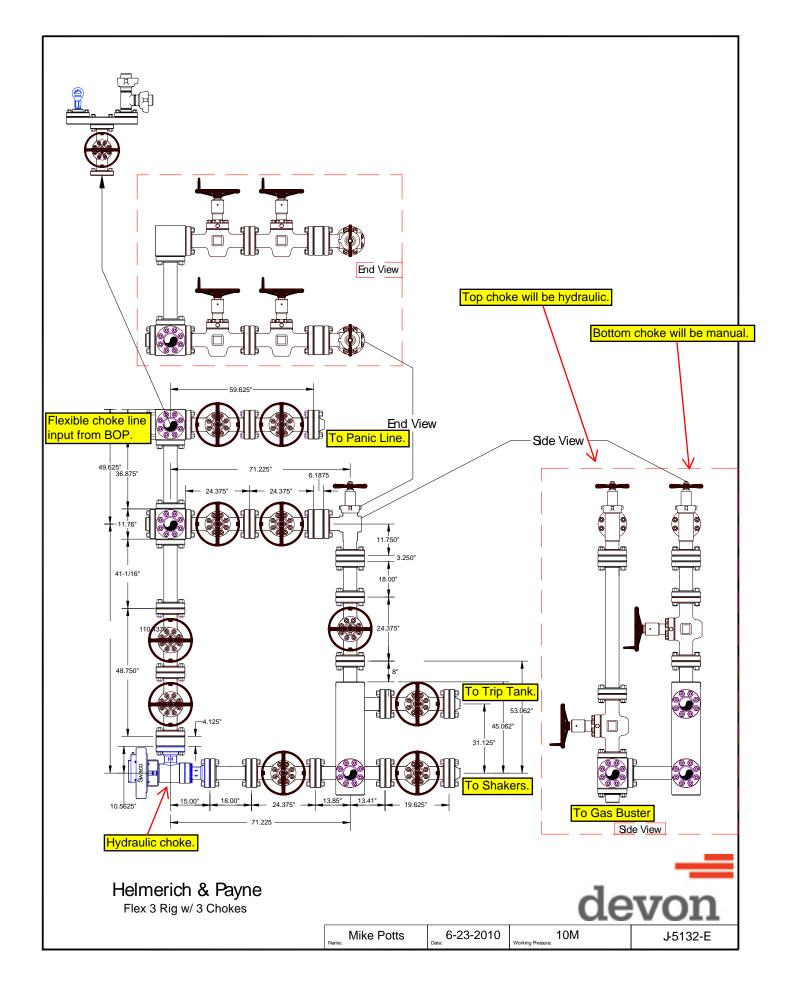
After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed and tested, with 5M annular being tested to 100% of rated working pressure.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 10,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.





Casing Assumptions and Load Cases

Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Surface Casing Burst Design			
Load Case External Pressure Internal Pressure			
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-	
		section plus Test psi	
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole	
		section	
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point	

Surface Casing Collapse Design				
Load Case External Pressure Internal Pressure				
Full Evacuation Water gradient in cement, mud above TOC None		None		
Cementing	Wet cement weight	Water (8.33ppg)		

Surface Casing Tension Design		
Load Case Assumptions		
Overpull	100kips	
Runing in hole 3 ft/s		
Service Loads N/A		

Casing Assumptions and Load Cases

Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Intermediate Casing Burst Design				
Load Case External Pressure Internal Pressure				
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-		
		section plus Test psi		
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole		
section				
Fracture @ Shoe	Formation Pore Pressure	Dry gas		

Intermediate Casing Collapse Design				
Load Case External Pressure Internal Pressure				
Full Evacuation	Water gradient in cement, mud	None		
above TOC				
Cementing Wet cement weight Water (8.33ppg)				

Intermediate Casing Tension Design		
Load Case Assumptions		
Overpull	100kips	
Runing in hole 2 ft/s		
Service Loads N/A		

Casing Assumptions and Load Cases

Production

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Production Casing Burst Design			
Load Case External Pressure Internal Pressure			
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced	
		water) + test psi	
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below	
		surface 8.6 ppg packer fluid	
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest	
		frac fluid	

Production Casing Collapse Design				
Load Case External Pressure Internal Pressure				
Full Evacuation Water gradient in cement, mud None above TOC. None				
above roc.				
Cementing Wet cement weight Water (8.33ppg)				

Production Casing Tension Design		
Load Case Assumptions		
Overpull	100kips	
Runing in hole 2 ft/s		
Service Loads N/A		

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM63994
LOCATION:	Section 5, T.23 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	Exotic Cat 5-17 Fed Com 611H
SURFACE HOLE FOOTAGE:	565'/N & 715'/W
BOTTOM HOLE FOOTAGE	20'/S & 330'/W
WELL NAME & NO.:	Exotic Cat 5-17 Fed Com 612H
SURFACE HOLE FOOTAGE:	200'/N & 2095'/W
BOTTOM HOLE FOOTAGE	20'/S & 1650'/W
WELL NAME & NO.:	Exotic Cat 5-17 Fed Com 711H
SURFACE HOLE FOOTAGE:	565'/N & 745'/W
BOTTOM HOLE FOOTAGE	20'/S & 790'/W
WELL NAME O NO	

WELL NAME & NO.:	Exotic Cat 5-17 Fed Com 712H
SURFACE HOLE FOOTAGE:	200'/N & 2125'/W
BOTTOM HOLE FOOTAGE	20'/S & 2110'/W

COA

H2S	• Yes	🖸 No	
Potash	None	Secretary	🖸 R-111-P
Cave/Karst Potential	🖸 Low	🖸 Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	🖸 None	Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	Both
Wellhead Variance	Diverter		
Other	□4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	🗆 Pilot Hole	🗆 Open Annulus
Cementing	Cement Squeeze	□ EchoMeter	
Special Requirements	🗌 Water Disposal	COM	🗖 Unit
Special Requirements	Break Testing	□ Offline	
Variance		Cementing	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Sand Dunes, Triste Draw, Wildcat, and Bone Springs** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 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 **13-3/8** inch surface casing shall be set at approximately **1146 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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 <u>8</u> <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:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" 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.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
 Cement excess is less than 25%, more cement might be required.

C. PRESSURE CONTROL

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

Option 1:

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

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** 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.
- 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>

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 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 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 Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <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</u> <u>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

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.
- 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.



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

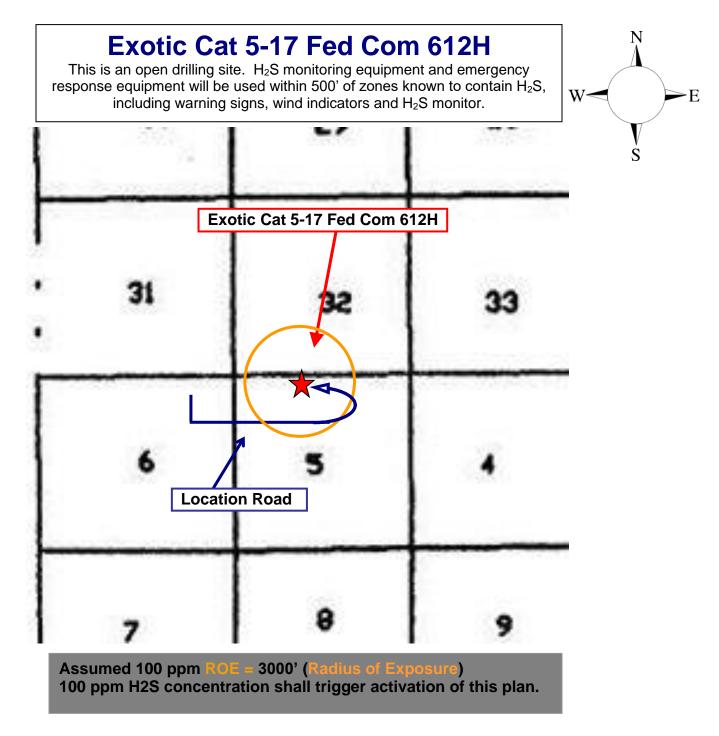
Hydrogen Sulfide (H₂S) Contingency Plan

For

Exotic Cat 5-17 Fed Com 612H

Sec-5 T-23S R-32E 200 FNL & 2095' FWL LAT. = 32.3402399' N (NAD83) LONG = 103.6985057' 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

Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal	
Name	Formula	Gravity	Limit	Hazardous Limit	Concentration	
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm	
Sulfur	60	2.21	2	N/A	1000	
Dioxide	SO ₂	Air = 1	2 ppm	N/A	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

There will be weekly H₂S and well control drills conducted for all personnel on each crew.

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.

Employee/Company Contract Representative	Position	Phone Number	After Hours Number	
Jonathan Fisher (North)	Drilling Manager	832-967-7912		
Jason Hildebrand (South)	Drilling Manager	405-552-6514		
Rich Downey	Drilling VP	405-228-2415		
Josh Harvey	EHS Manager	405-228-2440	918-500-5536	
Laura Wright	EHS Supervisor	405-552-5334	832-969-8145	
Robert Glover	EHS Professional	575-703-5712	575-703-5712	
Lane Frank	Lead EHS	580-579-7052	580-579-7052	
Rickey Porter	Lead EHS	903-720-8315	903-720-8315	
Ronnie Handy	Lead EHS	918-839-2046	918-839-2046	
Brock Vise	Lead EHS	918-413-3291	918-413-3291	
Delay	ware Basin Business U	nit (DBBU) Emergenc	y Contacts	
County/Lo	cation			
Police / Sherriff				
Eddy County			575-616-7155	
Lea County		575-397-9265		
Loving County		432-377-2411		
Winkler County			432-586-3461	
Fire Eddy County			575-616-7155	
Lea County			575-397-9265	
Loving County		432-377-2411		
Winkler County			432-577-2411 432-586-3461	
Ambulance & Hospital			452-560-5401	
Eddy County			575-616-7155	
Lea County			575-397-9265	
Carlsbad Medical Center			575-887-4100	
Lea County Regional Medica	l Center		575-492-5000	
Reeves County Hospital Dist	rict		432-447-3551	
Winkler County Memorial Ho	ospital		432-586-5864	
Helicopter/Lifeline Services				
Aero Care/Life Flight		575-616-7155 Ed	dy County or 575-397-9265 Le	
Acto curcy life Hight			County	

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_ u	Pipe Racks	Self-Contained Breathing Apparatus (SCBA) Arus Sensors Located Around the Rig May a Parm box
Devon Energy - Well Pad Rig Location Layout Safety Equipment Location	ISO ft. ISO ft. Iso ft. Iso ft. Iso ft. Istre stack with Electronic igniter Istre stack with Electronic igniter Aud/Gas Separator Mud/Gas Separator Mud/Gas Separator Mud/Gas Separator Accumulator Accumulator	300 ft. 300 ft.
Prevailing Wind Direction S, SW	Frac Tank & Water Storage Generator Generator 360 ft. HPU HPU	Location Dimensions 600 ft × 450 ft Not to Scale Wellhead Location Secondary Egres Crew Housing Change House

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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	122757
	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	8/11/2022		
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	8/11/2022		
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	8/11/2022		
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	8/11/2022		

CONDITIONS

Page 58 of 58

Action 122757