Form 3160-3 (June 2015)		FORM APP OMB No. 10 Expires: Januar	04-0137
UNITED STATES		-	
DEPARTMENT OF THE INT BUREAU OF LAND MANAC		5. Lease Serial No.	
APPLICATION FOR PERMIT TO DR		6. If Indian, Allotee or T	rihe Name
APPLICATION FOR PERMIT TO DR			
		7. If Unit or CA Agreem	ent. Name and No.
	NTER		
1b. Type of Well:   Oil Well   Gas Well   Othe		8. Lease Name and Well	No
1c. Type of Completion:   Hydraulic Fracturing   Sing	le Zone 🗌 Multiple Zone		
2 Nama of Opprator		9. API Well No.	
2. Name of Operator		9. API well No.	
3a. Address   3b	p. Phone No. (include area code)	10. Field and Pool, or Ex	sploratory
4. Location of Well ( <i>Report location clearly and in accordance wit</i> )	h any State requirements.*)	11. Sec., T. R. M. or Blk	. and Survey or Area
At surface			-
At proposed prod. zone			
14. Distance in miles and direction from nearest town or post office	*	12. County or Parish	13. State
	6. No of acres in lease 17. Space	ing Unit dedicated to this v	zell
location to nearest property or lease line, ft.		0	
(Also to nearest drig. unit line, if any)			
18. Distance from proposed location*       1         to nearest well, drilling, completed, applied for, on this lease, ft.       1	9. Proposed Depth 20, BLM	/BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	2. Approximate date work will start*	23. Estimated duration	
	24. Attachments		
The following, completed in accordance with the requirements of O (as applicable)	nshore Oil and Gas Order No. 1, and the l	Hydraulic Fracturing rule p	per 43 CFR 3162.3-3
1. Well plat certified by a registered surveyor.	4. Bond to cover the operation	ns unless covered by an exi	sting bond on file (see
2. A Drilling Plan.	Item 20 above).		
3. A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office).	6. Such other site specific info	rmation and/or plans as may	be requested by the
25. Signature	BLM. Name (Printed/Typed)	Dat	e
Title			
The			
Approved by (Signature)	Name (Printed/Typed)	Dat	e
Title	Office	I	
Application approval does not warrant or certify that the applicant h applicant to conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights	in the subject lease which	would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak	e it a crime for any person knowingly and	willfully to make to any o	enartment or agency
of the United States any false, fictitious or fraudulent statements or i			repartment of agency



\*(Instructions on page 2)

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(Continued on page 2)

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 6824 Phone: (575) 393-6161 Fax: (575) 393-072 DISTRICT II 811 S. FIRST ST., ARTESIA, NM 66 Phone: (575) 746-1283 Fax: (575) 748- DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM Phone: (505) 334-6178 Fax: (505) 33	0IL 8210 9720	inerals & Na CONSERV 1220 SOUTH	of New Mexico tural Resources ATION DIV ST. FRANCIS DI ew Mexico 8750	VISION R.	Revised A Submit one copy t	°orm C-102 agust 1, 2011 o appropriate ct Office
DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, N Phone: (505) 476-3460 Fax: (505) 47					□ AMEND	ED REPORT
	WELL I		ACREAGE DEDIC			
API Number		Pool Code 96776	IABALIN	Pool Name A;WOLFCAMP,	SOUTHWEST	-
Property Code	I	Pr	operty Name		Well Nun	nber
OGRID No.			OJA FED UNIT		812 Elevatio	
6137	DEVON		DUCTION COMP.	ANY, L.P.	3090	
		Surf	ace Location			
	Township Range		from the North/South		East/West line	County
C 27				1000	WEST	LEA
UL or lot No. Section	Bottor Township Range		If Different From		East/West line	County
LOT 3 34	26-S 35-E		20 SOUTH		WEST	LEA
Dedicated Acres Joint or	Infill Consolidatio	n Code Order No.				
233.44						
NO ALLOWABLE WI			ETION UNTIL ALL IN S BEEN APPROVED		EEN CONSOLIDA	ATED
ARENA ROJA FED UNIT 812H           EL:3090.8'           GEODETIC COORDINATES NAD 83           NMSP EAST SURFACE LOCATION           N:372264.65           E:843438.60           LAT:32.019690           LON:103.358589           KICK OFF POINT           CALCS:44ENL,2439 FWL           N: 37281           E: 844227           LAT: 32.013           LON: -103.3561           FIRST TAKE POINT (PPP 1)           100' FNL 2430' FWL SEC. 27           N: 372827.12           E: 844228.46           LAT: 32.021216           LON: 103.356024           LAT: 32.021216           LON: 103.356017           BOTTOM OF HOLE           N:365240.03           E: 844298.41           LAT: 32.000580           LON: 103.356017           BOTTOM OF HOLE           N:365240.03           E: 844299.13           LAT: 32.000361           LON: 103.356017           PPP 2           0' FNL 2429' FWL SEC. 34           N:367642.08           E: 844276.77           LAT: 32.006963           LON: 103.356019           LON: 103.356019           LON: 103	N 00 00 1 1 1 1 200000 1 200000 1 2000000 1 2000000 1 200000000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	812H FTP       (PPP 1)   <	B I hereby herein is true my knowledge organization e. or unleased m including the or has a right location pursus owner of such or to a volumt compulsory po by the division B C Signature C Signature	al@dvn.com ss DR CERTIFICAT certify that the were plat was plotted for i surveys made by 1 revision, and that the revision, and that the local of Survey Date of Survey Seal of Professiona MEtco 2404 M	ormation e best of t this g interest e land le location t this ith an interest, nt or a re entered //1/2023 the nalyst CION U location me or e same is y belief.

Released to Imaging: 9/3/2024 7:28:05 AM

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Intent
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As Drilled	
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API #	

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	ARENA ROJA FED UNIT	812H

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	27	26S	35E		46	FNL	2429	FWL	LEA
Latit	ude				Longitude				NAD
	32.0	0213			-103	.3561			83

## First Take Point (FTP)

UL C	Section 27	Township 26-S	Range 35-E	Lot	Feet 100	From N/S	Feet 2430	From E/W	County LEA
Latitud 32.0	<sup>de</sup> )21216	6			Longitude <b>103.356</b>	024			NAD 83

## Last Take Point (LTP)

UL	Section <b>34</b>	Township 26-S	Range 35-E	Lot 3	Feet <b>100</b>	From N/S SOUTH	Feet 2430	From E/W	County LEA
Latitu	de				Longitud	de			NAD
32.0	00580	)			103.3	856017			83

Ν

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

Is this well an infill well?

V	
Y	

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
Devon Energy Production Company, L.P.	Arena Roja Fed Unit	712H

KZ 06/29/2018

<i>Received by OCD: 8/15/2024 11:21:16 AM</i>	Re	ceived b	v OCD:	8/15/2024	11:21:16 AM	[
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State of New Mexico Energy, Minerals and Natural Resources Department

> **Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description Effective May 25, 2021

I. Operator: Devon Energy Production Company, L.P. OGRID: 6137 Date: 11 /14 / 2023

Submit Electronically Via E-permitting

**II. Type:** ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.

If Other, please describe:

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.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached						

IV. Central Delivery Point Name: Arena Roja 27 CTB 1 & 2 [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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See Attached						

VI. Separation Equipment: X Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: X Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: X Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

## IX. Anticipated Natural Gas Production:

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

### X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

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

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

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

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

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

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

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

## Section 4 - Notices

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

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

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

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

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

Page 7 of 53

#### ARENA ROJA 27 CTB 1

Well Name	ΑΡΙ	ULSTR	N/S Footage	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
ARENA ROJA FED UNIT 712H		27-26S-35E	655 FNL & 1605 FWL	(+/-)2180bopd	(+/-)4030mcfd	(+/-)14908bwpd
ARENA ROJA FED UNIT 811H		27-26S-35E	655 FNL & 1575 FWL	(+/-)850bopd	(+/-)1245mcfd	(+/-)4110bwpd
ARENA ROJA FED UNIT 812H		27-26S-35E	600 FNL & 1635 FWL	(+/-)850bopd	(+/-)1245mcfd	(+/-)4110bwpd

Well Name	ΑΡΙ	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
ARENA ROJA FED UNIT 712H		11/23/2024	12/23/2024	4/22/2025	4/22/2025	4/22/2025
ARENA ROJA FED UNIT 811H		12/12/2024	1/11/2025	5/11/2025	5/11/2025	5/11/2025
ARENA ROJA FED UNIT 812H		10/28/2024	11/27/2024	3/27/2025	3/27/2025	3/27/2025

\*Dates and Volumes are subject to change

#### ARENA ROJA 27 CTB 2

Well Name	ΑΡΙ	ULSTR	N/S Footage	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
ARENA ROJA FED UNIT 713H		27-26S-35E	600 FNL & 1925 FEL	(+/-)2180bopd	(+/-)4030mcfd	(+/-)14908bwpd
ARENA ROJA FED UNIT 714H		27-26S-35E	600 FNL & 1865 FEL	(+/-)2180bopd	(+/-)4030mcfd	(+/-)14908bwpd
ARENA ROJA FED UNIT 715H		22-26S-35E	275 FSL & 738 FEL	(+/-)2180bopd	(+/-)4030mcfd	(+/-)14908bwpd
ARENA ROJA FED UNIT 716H		22-26S-35E	275 FSL & 798 FEL	(+/-)2180bopd	(+/-)4030mcfd	(+/-)14908bwpd
ARENA ROJA FED UNIT 813H		27-26S-35E	600 FNL & 1895 FEL	(+/-)850bopd	(+/-)1245mcfd	(+/-)4110bwpd
ARENA ROJA FED UNIT 814H		22-26S-35E	275 FSL & 768 FEL	(+/-)850bopd	(+/-)1245mcfd	(+/-)4110bwpd
ARENA ROJA FED UNIT 815H		22-26S-35E	275 FSL & 708 FEL	(+/-)850bopd	(+/-)1245mcfd	(+/-)4110bwpd

Well Name	ΑΡΙ	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
ARENA ROJA FED UNIT 713H		11/25/2024	12/25/2024	4/24/2025	4/24/2025	4/24/2025
ARENA ROJA FED UNIT 714H		11/5/2024	12/5/2024	4/4/2025	4/4/2025	4/4/2025
ARENA ROJA FED UNIT 715H		11/22/2024	12/22/2024	4/21/2025	4/21/2025	4/21/2025
ARENA ROJA FED UNIT 716H		10/22/2024	11/21/2024	3/21/2025	3/21/2025	3/21/2025
ARENA ROJA FED UNIT 813H		10/10/2024	11/9/2024	3/9/2025	3/9/2025	3/9/2025
ARENA ROJA FED UNIT 814H		11/2/2024	12/2/2024	4/1/2025	4/1/2025	4/1/2025
ARENA ROJA FED UNIT 815H		12/12/2024	1/11/2025	5/11/2025	5/11/2025	5/11/2025



#### 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



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	12800	Pilot hole depth	N/A
MD at TD:	20280	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	967		
Salt	1430		
Base of Salt	4880		
Delaware	4880		
Cherry Canyon	6211		
Brushy Canyon	7684		
1st Bone Spring Lime	9083		
Bone Spring 1st	10370		
Bone Spring 2nd	10884		
3rd Bone Spring Lime	11330		
Bone Spring 3rd	12020		
Wolfcamp	12317		

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

2.	Casing	Program
	Cubing	11051000

		Wt			Casing	Interval	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	992	0	992
9 7/8	8 5/8	32	P110	Sprint FJ	0	12212	0	12212
7 7/8	5 1/2	20	P110	DWC/IS-IS+	0	20280	0	12800

• 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

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the 8-5/8''intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	599	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	546	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int I	516	7766	13.2	1.44	Tail: Class H / C + additives
Production	117	10312.04	9	3.27	Lead: Class H /C + additives
Froduction	1055	12312.04	13.2	1.44	Tail: Class H / C + additives

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

.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	Туре		Tested to:
			An	nular	X	50% of rated working pressure
Int 1	13-5/8"	5M	Bline	d Ram	Х	
Int I	15-5/6	5101	Pipe	e Ram		5M
			Doub	le Ram	Х	5111
			Other*			
			Annular (5M)		Х	100% of rated working pressure
Production	13-5/8"	10M	Blind Ram		Х	
Troduction		10111	Pipe Ram			10M
			Double Ram		Х	10101
			Other*			
			Annul	ar (5M)		
			Blin	d Ram		
	Pipe Ram					
			Doub	le Ram		]
			Other*			
N A variance is requested for	r the use of a	a diverter or	the surface	casing. See a	attached for	schematic.
Y A variance is requested to	run a 5 M a	nnular on a	10M system	l		

### 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
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## 6. Logging and Testing Procedures

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

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

### 7. Drilling Conditions

Condition	Specfiy what type and where?			
BH pressure at deepest TVD	6989			
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.

N	H2S is present
Y	H2S plan attached.

#### ARENA ROJA FED UNIT 812H

#### 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**

Se	ction 1 - Geologic F	ormatio	ns				
Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13932161		3091	0	0	OTHER : Surface	NONE	N
13932162	RUSTLER	2124	967	967	SANDSTONE	NONE	N
13932163	TOP SALT	1661	1430	1430	SALT	NONE	N
13932171	BASE OF SALT	-1789	4880	4880	ANHYDRITE	NONE	N
13932178	LAMAR	-1789	4880	4880	LIMESTONE	NATURAL GAS, OIL	N
13932179	BELL CANYON	-2065	5156	5156	LIMESTONE	NATURAL GAS, OIL	N
13932180	CHERRY CANYON	-3120	6211	6211	LIMESTONE	NATURAL GAS, OIL	N
13932181	BRUSHY CANYON	-4593	7684	7684	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
13932160	BONE SPRING 1ST	-5992	9083	9083	LIMESTONE	NATURAL GAS, OIL	N
13932182	FIRST BONE SPRING SAND	-7279	10370	10370	SANDSTONE	NATURAL GAS, OIL	N
13932184	BONE SPRING 2ND	-7420	10511	10511	LIMESTONE	NATURAL GAS, OIL	N
13932169	BONE SPRING 2ND	-7793	10884	10884	SANDSTONE	NATURAL GAS, OIL	N
13932185	BONE SPRING 3RD	-8239	11330	11330	LIMESTONE	NATURAL GAS, OIL	N
13932167	BONE SPRING 3RD	-8929	12020	12020	SANDSTONE	NATURAL GAS, OIL	N
13932170	WOLFCAMP	-9226	12317	12317	SHALE	NATURAL GAS, OIL	Y

## **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.

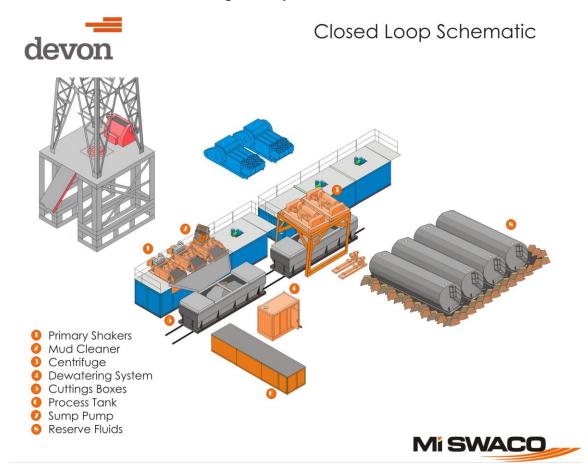
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.

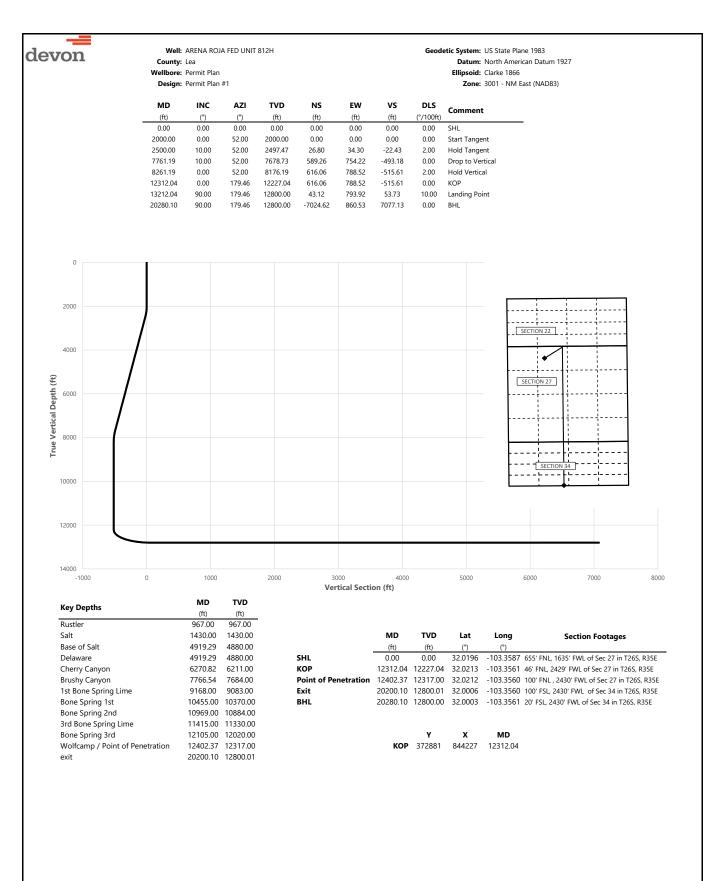
All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills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



levon		County: Wellbore:			B12H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	52.00	100.00	0.00	0.00	0.00	0.00	SHE
	200.00	0.00	52.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	52.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	52.00	400.00	0.00	0.00	0.00	0.00	
	500.00	0.00	52.00	500.00	0.00	0.00	0.00	0.00	
	600.00	0.00	52.00	600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	52.00	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	52.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	52.00	900.00	0.00	0.00	0.00	0.00	
	967.00	0.00	52.00	967.00	0.00	0.00	0.00	0.00	Rustler
	1000.00	0.00	52.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	52.00	1100.00	0.00	0.00	0.00	0.00	
	1200.00	0.00	52.00	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	52.00	1300.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	52.00	1400.00	0.00	0.00	0.00	0.00	
	1430.00	0.00	52.00	1430.00	0.00	0.00	0.00	0.00	Salt
	1500.00	0.00	52.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	52.00	1600.00	0.00	0.00	0.00	0.00	
	1700.00	0.00	52.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	52.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	52.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	52.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	52.00	2099.98	1.07	1.38	-0.90	2.00	
	2200.00	4.00	52.00	2199.84	4.30	5.50	-3.60	2.00	
	2300.00 2400.00	6.00 8.00	52.00 52.00	2299.45	9.66	12.37 21.97	-8.09	2.00 2.00	
	2400.00 2500.00			2398.70	17.16		-14.37		Hold Tangont
	2500.00	10.00 10.00	52.00 52.00	2497.47 2595.95	26.80 37.49	34.30	-22.43 -31.37	2.00 0.00	Hold Tangent
	2700.00	10.00	52.00	2694.43	48.18	47.98 61.66	-40.32	0.00	
	2800.00	10.00	52.00	2792.91	58.87	75.35	-40.32	0.00	
	2900.00	10.00	52.00	2891.39	69.56	89.03	-58.22	0.00	
	3000.00	10.00	52.00	2989.87	80.25	102.71	-67.16	0.00	
	3100.00	10.00	52.00	3088.35	90.94	116.40	-76.11	0.00	
	3200.00	10.00	52.00	3186.83	101.63	130.08	-85.06	0.00	
	3300.00	10.00	52.00	3285.31	112.32	143.77	-94.01	0.00	
	3400.00	10.00	52.00	3383.79	123.01	157.45	-102.96	0.00	
	3500.00	10.00	52.00	3482.27	133.70	171.13	-111.90	0.00	
	3600.00	10.00	52.00	3580.75	144.39	184.82	-120.85	0.00	
	3700.00	10.00	52.00	3679.23	155.09	198.50	-129.80	0.00	
	3800.00	10.00	52.00	3777.72	165.78	212.18	-138.75	0.00	
	3900.00	10.00	52.00	3876.20	176.47	225.87	-147.69	0.00	
	4000.00	10.00	52.00	3974.68	187.16	239.55	-156.64	0.00	
	4100.00	10.00	52.00	4073.16	197.85	253.23	-165.59	0.00	
	4200.00	10.00	52.00	4171.64	208.54	266.92	-174.54	0.00	
	4300.00	10.00	52.00	4270.12	219.23	280.60	-183.48	0.00	
	4400.00	10.00	52.00	4368.60	229.92	294.29	-192.43	0.00	
	4500.00	10.00	52.00	4467.08	240.61	307.97	-201.38	0.00	
	4600.00	10.00	52.00	4565.56	251.30	321.65	-210.33	0.00	
	4700.00	10.00	52.00	4664.04	261.99	335.34	-219.27	0.00	
	4800.00	10.00	52.00	4762.52	272.68	349.02	-228.22	0.00	
	4900.00	10.00	52.00	4861.00	283.38	362.70	-237.17	0.00	
	4919.29	10.00	52.00	4880.00	285.44	365.34	-238.90	0.00	Base of Salt, Delaware
	5000.00	10.00	52.00	4959.48	294.07	376.39	-246.12	0.00	
	5100.00	10.00	52.00	5057.97	304.76	390.07	-255.07	0.00	
	5200.00	10.00	52.00	5156.45	315.45	403.75	-264.01	0.00	
	5300.00	10.00	52.00	5254.93	326.14	417.44	-272.96	0.00	
	5400.00	10.00	52.00	5353.41	336.83	431.12	-281.91	0.00	
	5500.00	10.00	52.00	5451.89	347.52	444.81	-290.86	0.00	
	5600.00	10.00	52.00	5550.37	358.21	458.49	-299.80	0.00	
	5700.00	10.00	52.00	5648.85	368.90	472.17	-308.75	0.00	
	5800.00	10.00	52.00	5747.33	379.59	485.86	-317.70	0.00	
	5900.00	10.00	52.00	5845.81	390.28	499.54	-326.65	0.00	
	6000.00	10.00	52.00	5944.29	400.97	513.22	-335.59	0.00	
	6100.00	10.00	52.00	6042.77	411.67	526.91	-344.54	0.00	
	6200.00	10.00	52.00	6141.25	422.36	540.59	-353.49	0.00	
	6270.82	10.00	52.00	6211.00	429.93	550.28	-359.83	0.00	Cherry Canyon
	6300.00	10.00	52.00	6239.73	433.05	554.27	-362.44	0.00	
	6400.00	10.00	52.00	6338.22	443.74	567.96	-371.39	0.00	
	6500.00	10.00	52.00	6436.70	454.43	581.64	-380.33	0.00	

lorrole		Well:	ARENA RO	JA FED UNIT 8	312H				Geodetic System: US State Plane 1983
levon		County:							Datum: North American Datum 1927
			Permit Plar						Ellipsoid: Clarke 1866
		Design:	Permit Plar	ו #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
	6600.00	10.00	52.00	6535.18	465.12	595.33	-389.28	0.00	
	6700.00 6800.00	10.00 10.00	52.00 52.00	6633.66 6732.14	475.81 486.50	609.01 622.69	-398.23 -407.18	0.00 0.00	
	6900.00	10.00	52.00	6830.62	497.19	636.38	-416.12	0.00	
	7000.00	10.00	52.00	6929.10	507.88	650.06	-425.07	0.00	
	7100.00	10.00	52.00	7027.58	518.57	663.74	-434.02	0.00	
	7200.00	10.00	52.00	7126.06	529.27	677.43	-442.97	0.00	
	7300.00 7400.00	10.00 10.00	52.00 52.00	7224.54 7323.02	539.96 550.65	691.11 704.79	-451.91 -460.86	0.00 0.00	
	7500.00	10.00	52.00	7421.50	561.34	718.48	-469.81	0.00	
	7600.00	10.00	52.00	7519.99	572.03	732.16	-478.76	0.00	
	7700.00	10.00	52.00	7618.47	582.72	745.85	-487.71	0.00	
	7761.19	10.00	52.00	7678.73	589.26	754.22	-493.18	0.00	Drop to Vertical
	7766.54 7800.00	9.89	52.00	7684.00 7716.99	589.83	754.95	-493.66	2.00	Brushy Canyon
	7800.00	9.22 7.22	52.00 52.00	7815.96	593.25 602.06	759.33 770.60	-496.52 -503.89	2.00 2.00	
	8000.00	5.22	52.00	7915.36	608.73	779.14	-509.48	2.00	
	8100.00	3.22	52.00	8015.09	613.27	784.94	-513.27	2.00	
	8200.00	1.22	52.00	8115.01	615.65	788.00	-515.27	2.00	
	8261.19	0.00	52.00	8176.19	616.06	788.52	-515.61	2.00	Hold Vertical
	8300.00	0.00	179.46	8215.00 8315.00	616.06	788.52	-515.61	0.00	
	8400.00 8500.00	0.00 0.00	179.46 179.46	8315.00 8415.00	616.06 616.06	788.52 788.52	-515.61 -515.61	0.00 0.00	
	8600.00	0.00	179.46	8515.00	616.06	788.52	-515.61	0.00	
	8700.00	0.00	179.46	8615.00	616.06	788.52	-515.61	0.00	
	8800.00	0.00	179.46	8715.00	616.06	788.52	-515.61	0.00	
	8900.00	0.00	179.46	8815.00	616.06	788.52	-515.61	0.00	
	9000.00 9100.00	0.00 0.00	179.46 179.46	8915.00 9015.00	616.06 616.06	788.52 788.52	-515.61 -515.61	0.00 0.00	
	9168.00	0.00	179.46	9083.00	616.06	788.52	-515.61	0.00	1st Bone Spring Lime
	9200.00	0.00	179.46	9115.00	616.06	788.52	-515.61	0.00	
	9300.00	0.00	179.46	9215.00	616.06	788.52	-515.61	0.00	
	9400.00	0.00	179.46	9315.00	616.06	788.52	-515.61	0.00	
	9500.00	0.00	179.46	9415.00	616.06	788.52	-515.61	0.00	
	9600.00 9700.00	0.00 0.00	179.46 179.46	9515.00 9615.00	616.06 616.06	788.52 788.52	-515.61 -515.61	0.00 0.00	
	9800.00	0.00	179.46	9715.00	616.06	788.52	-515.61	0.00	
	9900.00	0.00	179.46	9815.00	616.06	788.52	-515.61	0.00	
	10000.00	0.00	179.46	9915.00	616.06	788.52	-515.61	0.00	
	10100.00	0.00	179.46	10015.00	616.06	788.52	-515.61	0.00	
	10200.00	0.00	179.46	10115.00	616.06	788.52	-515.61	0.00	
	10300.00 10400.00	0.00 0.00	179.46 179.46	10215.00 10315.00	616.06 616.06	788.52 788.52	-515.61 -515.61	0.00 0.00	
	10455.00	0.00	179.46	10370.00	616.06	788.52	-515.61	0.00	Bone Spring 1st
	10500.00	0.00	179.46	10415.00	616.06	788.52	-515.61	0.00	
	10600.00	0.00	179.46	10515.00	616.06	788.52	-515.61	0.00	
	10700.00	0.00	179.46	10615.00	616.06	788.52	-515.61	0.00	
	10800.00 10900.00	0.00	179.46 179.46	10715.00 10815.00	616.06	788.52 788.52	-515.61	0.00	
	10900.00	0.00 0.00	179.46 179.46	10815.00 10884.00	616.06 616.06	788.52 788.52	-515.61 -515.61	0.00 0.00	Bone Spring 2nd
	11000.00	0.00	179.46	10915.00	616.06	788.52	-515.61	0.00	
	11100.00	0.00	179.46	11015.00	616.06	788.52	-515.61	0.00	
	11200.00	0.00	179.46	11115.00	616.06	788.52	-515.61	0.00	
	11300.00	0.00	179.46	11215.00	616.06	788.52	-515.61	0.00	
	11400.00	0.00 0.00	179.46	11315.00 11330.00	616.06 616.06	788.52 788.52	-515.61	0.00 0.00	and Pone Chrine Lime
	11415.00 11500.00	0.00	179.46 179.46	11415.00	616.06	788.52	-515.61 -515.61	0.00	3rd Bone Spring Lime
	11600.00	0.00	179.46	11515.00	616.06	788.52	-515.61	0.00	
	11700.00	0.00	179.46	11615.00	616.06	788.52	-515.61	0.00	
	11800.00	0.00	179.46	11715.00	616.06	788.52	-515.61	0.00	
	11900.00	0.00	179.46	11815.00	616.06	788.52	-515.61	0.00	
	12000.00	0.00	179.46	11915.00	616.06	788.52	-515.61	0.00	
	12100.00 12105.00	0.00 0.00	179.46 179.46	12015.00 12020.00	616.06 616.06	788.52 788.52	-515.61 -515.61	0.00 0.00	Bone Spring 3rd
	12200.00	0.00	179.46	12020.00	616.06	788.52	-515.61	0.00	Some spring stu
	12300.00	0.00	179.46	12215.00	616.06	788.52	-515.61	0.00	
	12312.04	0.00	179.46	12227.04	616.06	788.52	-515.61	0.00	КОР
	12400.00	8.80	179.46	12314.66	609.32	788.58	-508.91	10.00	
	12402.37	9.03	179.46	12317.00	608.95	788.58	-508.55	10.00	Wolfcamp / Point of Penetration
	12500.00	18.80	179.46	12411.65	585.50	788.80	-485.24	10.00	

Image: Description         Market Ruber											
Control Line         Control Line         Control Line         Database         Database<											
Mutuate         From First         Sec and Decision         Sec and Decisin         Sec and Decision <th< th=""><th>devon</th><th></th><th></th><th></th><th>JA FED UNIT 8</th><th>312H</th><th></th><th></th><th></th><th>•</th><th></th></th<>	devon				JA FED UNIT 8	312H				•	
Degree Heart #1         Zero X 100         K <th>acvon</th> <th></th>	acvon										
ND         IN         IV         IV        IV        IV         IV <th></th>											
(b)         (c)         (c)         (c)         (c)         (c)         (c)         (c)         (c)         (c)           172000         38.00         1734         1556.03         465.0         787.0         30.00         1000           172000         38.00         1734         1256.03         420.5         783.0         1000           172000         88.0         1734         127.17         320.5         173.2         1000           132000         68.0         1734         1200.5         123.5         113.0         0           132000         60.00         17346         1200.00         -44.8         757.5         141.4         000           133000         90.00         17346         1200.00         -44.8         756.3         3387         0.00         -           130000         90.00         17346         1200.00         -44.8         757.5         131.4         0.00         -           130000         90.00         17346         1200.00         -44.8         957.3         0.00         -           140000         90.00         17346         1200.00         -44.8         957.3         0.00         -           1			Design:	Permit Plar	1#1					Zone:	3001 - NM East (NAD83)
(b)         (c)         (c)         (c)         (c)         (c)         (c)         (c)         (c)         (c)           172000         38.00         1734         1556.03         465.0         787.0         30.00         1000           172000         38.00         1734         1256.03         420.5         783.0         1000           172000         88.0         1734         127.17         320.5         173.2         1000           132000         68.0         1734         1200.5         123.5         113.0         0           132000         60.00         17346         1200.00         -44.8         757.5         141.4         000           133000         90.00         17346         1200.00         -44.8         756.3         3387         0.00         -           130000         90.00         17346         1200.00         -44.8         757.5         131.4         0.00         -           130000         90.00         17346         1200.00         -44.8         957.3         0.00         -           140000         90.00         17346         1200.00         -44.8         957.3         0.00         -           1		MD	INC	471	TVD	NS	FW/	vs	DIS		
120000       28/80       17946       1220103       54/21       79318       -44/20       1000         120000       58/80       17946       125/81       20154       20150       1000         1300000       58/80       17946       127112       2033       20132       1000         1300000       68/80       17946       127112       2033       11213       1000         1310000       68/80       17946       127012       2033       11213       1000         1310000       9000       17846       120000       4112       7152       4132       1000         1310000       9000       17846       120000       -4483       7975       41324       1000         1300000       9000       17846       120000       -4483       7975       41324       1000         1300000       9000       17846       120000       -4483       8013       8571       100         1400000       9000       17846       120000       -4483       8047       13335       100         1400000       9000       17846       120000       -4443       8047       13349       100         1400000       9000 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Comment</th><th></th></t<>										Comment	
170000     8480     1744     17540     2580     4866     7872     -8100     100       120000     8480     1744     17171     3393     79112     -21123     100       130000     7880     1744     17171     3393     1541     -2123     100       131000     7880     1744     17210     1541     1523     5480     100       131000     900     1746     12000     4483     7452     1141     00       130000     900     1746     12000     -4443     7452     1344     00       130000     900     1744     12000     -4443     7452     1532     00       130000     900     1744     12000     -4443     7453     1314     00       130000     900     1744     12000     -4443     7453     1314     00       130000     900     1744     12000     -4443     8040     7134     00       140000     900     1744     12000     14478     8174     17340     100       140000     900     1744     12000     14478     8174     13142     100       140000     900     1744     12000     14478	-										
128000         6800         17946         12714         13969         7915         -24123         1000           130000         680         17946         127141         2903         7919         -5219         100           1300000         680         17946         1279687         5516         7358         417         100           1320000         680         17946         1279687         5516         7358         417         100           1320000         680         17946         127000         4482         7855         4104         100           1440000         9000         17946         128000         -4442         7855         4304         100           1300000         9000         17946         128000         -4448         7815         33861         00           1300000         9000         17946         128000         -4448         7815         100         -           1400000         9000         17946         128000         -4448         7815         100         -           1400000         9000         17946         128000         -4448         7815         100         -           1400000         9000											
13000.0       68.0       179.6       172.0.2       25.0.3       791.9       15.0.0         13200.0       88.0       179.6       1279.9.5       51.6       793.0       1.7.0       10.0         13200.0       88.0       179.6       1280.00       44.12       793.6       23.03       0.0         13300.0       90.0       179.46       1280.00       -44.83       784.7       430.14       0.0         1300.00       90.0       179.46       1280.00       -44.83       784.5       380.0       0.0         1300.00       90.0       179.46       1280.00       -44.84       785.5       380.0       0.0         1300.00       90.0       179.46       1280.00       -44.84       785.5       380.0       0.0         14000.00       90.0       179.46       1280.00       -44.84       785.5       380.0       0.0         14000.00       90.0       179.46       1280.00       -44.84       785.5       380.4       0.0         14000.00       90.0       179.46       1280.00       -14.44       80.12       134.54       0.0         14000.00       90.0       179.46       1280.00       144.47       134.22 <td< th=""><th></th><th>12800.00</th><th>48.80</th><th>179.46</th><th>12658.12</th><th>420.54</th><th>790.36</th><th>-321.32</th><th></th><th></th><th></th></td<>		12800.00	48.80	179.46	12658.12	420.54	790.36	-321.32			
13100.00       78.60       179.46       172.87.00       55.16       73.80       11.77       10.00       Landing Point         13212.44       91.79       10.74.6       12.800.00       43.81       79.51       13.11.4       0.00       Landing Point         13400.00       90.00       179.46       12.800.00       44.83       79.57       40.12.4       0.00         13000.00       90.00       179.46       12.800.00       44.82       79.57       40.12.4       0.00         13000.00       90.00       179.46       12.800.00       44.82       79.57       40.32.4       0.00         13000.00       90.00       179.46       12.800.00       -44.84       79.54       10.00       -         13000.00       90.00       179.46       12.800.00       -44.84       80.46       10.35       0.00         14000.00       90.00       179.46       12.800.00       -14.41       80.57       10.83.5       0.00         14000.00       90.00       179.46       12.800.00       14.42.7       80.77       13.93.20       0.00         14000.00       90.00       179.46       12.800.00       14.42.7       80.77       13.93.20       0.00		12900.00	58.80	179.46	12717.11	339.95	791.12	-241.23	10.00		
122004         8880         17946         12798.07         55.16         793.80         41.7         10.00           13300.00         90.00         17946         12800.00         -44.83         78.75         11.14         0.00           13000.00         90.00         17946         12800.00         -44.83         78.65         39.97         0.00           13000.00         90.00         17946         12800.00         -44.84         78.52         53.81         10.00           13000.00         90.00         17946         12800.00         -44.84         785.2         53.81         10.00           13000.00         90.00         17946         12800.00         -44.84         79.51         13.00         14.97         17.97         12.00           14000.00         90.00         179.44         1280.00         14.44         80.51         13.35         0.0           14000.00         90.00         179.44         1280.00         13.44         80.51         13.355         0.0           14000.00         90.00         179.44         1280.00         13.355         0.0         14.97         87.6         13.355         0.0           14000.00         90.00         179.44<		13000.00	68.80	179.46	12761.21	250.35	791.96	-152.19	10.00		
1212100       9000       17346       122000       4.83       79.56       2.43.50       90.00         134000       90.00       17346       1220.00       -4.84.8       79.56       33.95       0.00         135000       90.00       17346       1220.00       -4.84.8       79.57       49.24       0.00         136000       90.00       17346       1220.00       -4.84.8       79.75       49.24       0.00         138000       90.00       17346       1220.00       -4.84.8       79.75       49.24       0.00         1380000       90.00       17346       1220.00       -4.84.8       79.75       0.00         1400000       90.00       17346       1220.00       -4.84.8       79.35       0.00         1400000       90.00       17346       1220.00       -4.84.7       70.70       132.22       0.00         1400000       90.00       17346       1220.00       -14.47       80.71       10.34       122.22       0.00         1470000       90.00       17346       1220.00       134.47       80.71       10.34       120.00       124.71       10.34       10.00       124.71       10.34       10.00       124.71		13100.00	78.80	179.46	12789.08	154.45	792.87	-56.89	10.00		
133000       900       1746       128000       9408         135000       900       1746       128000       9448       7575       4324       00         135000       900       1746       128000       9448       7575       4324       00         137000       9000       1746       128000       9448       7575       4324       00         138000       9000       1746       128000       6448       8004       73735       00         139000       9000       1746       128000       9448       8004       73735       00         141000       9000       1746       128000       9448       80023       13568       00         143000       9000       1746       128000       14447       80407       134282       00         144000       9000       1746       128000       14447       80406       13335       00         144000       9000       1746       128000       14447       8046       13355       00         1440000       9000       1746       128000       14447       8079       13223       00         1400000       9000       17464       12800											
144000       9000       1746       128000       9448.       7956       31957       000         136000       9000       1746       128000       9448.       7975       41924       000         138000       9000       1746       128000       9448.       7975       41924       000         138000       9000       1746       128000       9448.       8924       50738       000         140000       9000       1746.       128000       9448.       80134       816.71       000         142000       9000       1746.       128000       944.80       80134       816.71       0.00         142000       9000       1746.       128000       1444.78       8012       1234.19       0.00         144000       9000       1746.4       128000       1444.78       8012       1234.19       0.00         146000       9000       1746.4       128000       1444.78       8012       1331.60       0.00         1480000       9000       1746.4       128000       1444.78       807.11       1332.40       0.00         150000       900       1746.4       128000       144.47       817.11       1322.55<										Landing Point	
155000       9000       1746       128000       94482       757       41324       000         137000       9000       1746       128000       94484       7575       41324       000         137000       9000       17464       128000       94484       8040       71735       000         139000       9000       17464       128000       9448       8023       1867       00         1410000       9000       17464       128000       9448       80229       91668       00         1430000       9000       17464       128000       94477       80713       124422       000         1430000       9000       17464       128000       14447       80743       124320       000         1440000       9000       17464       128000       14447       80743       13355       000         1470000       9000       17464       128000       14447       80743       13133       000         1420000       9000       17464       128000       14447       80743       13133       000         1420000       9000       17464       128000       14447       80743       12820       000											
13600.0       900       17946       12000.0       444.81       797.57       439.24       0.00         13800.0       900.0       17946       1200.00       -644.81       796.52       538.61       0.00         14000.00       900.0       17946       1200.00       -644.81       796.46       637.98       0.00         14000.00       900.0       17946       1200.00       -644.80       801.34       836.71       0.00         14200.00       900.0       17946       1200.00       -044.79       80.23       103.45       0.00         14200.00       900.0       17946       1200.00       -144.74       80.52       123.19       0.00         14400.00       900.0       17946       1200.00       -144.74       80.50       133.55       0.00         14600.00       900.0       17946       1200.00       -144.74       80.79       133.22       0.00         15000.00       900.0       17946       1200.00       -144.74       80.79       133.22       0.00         15000.00       900.0       17946       1200.00       -144.74       81.74       138.04       0.00         15000.00       900.0       17946       1200.00 <th></th>											
13700.00       900.00       17946       1200.00       -44.81       97946       373.55       0.00         13900.00       900.00       17944       1200.00       -44.81       800.40       737.35       0.00         14000.00       900.00       17944       1200.00       -44.81       802.29       936.08       0.00         14000.00       900.00       17944       1200.00       944.79       80.12       1134.82       0.00         14000.00       900.00       17944       1200.00       -144.47       80.12       133.55       0.00         14000.00       900.00       17944       1200.00       -144.47       807.00       133.55       0.00         14700.00       900.01       17944       1200.00       -144.47       807.00       133.55       0.00         14900.00       900.01       17944       1200.00       -144.47       807.00       133.55       0.00         15000.00       900.01       17944       1200.00       -144.47       807.01       133.25       0.00         15000.00       900.01       17944       1200.00       124.47       807.71       130.00       0.01         15000.00       900.01       17944											
1380000       9000       17946       120000       -64.48       873.88       0.00         140000       9000       17946       120000       -64.48       813.44       836.71       0.00         140000       9000       17946       120000       -64.48       813.44       836.71       0.00         1420000       9000       17946       120000       -144.78       803.24       915.66       0.00         1440000       9000       17946       120000       -144.78       805.12       123.419       0.00         1440000       9000       17946       120000       -144.77       805.12       123.419       0.00         1440000       9000       17946       120000       -144.77       807.90       132.92       0.00         1440000       9000       17944       120000       -144.76       807.91       132.92       0.00         150000       9000       17944       120000       -144.76       807.91       132.92       0.00         150000       9000       17944       120000       -144.76       807.91       132.92       0.00         150000       9000       17944       1200.00       -144.78       815.42											
139000       900       1744       120000       7443       8074         1410000       9000       17444       120000       944480       802.29       936.08       0.00         1420000       9000       17444       120000       944.79       80.17       1134.82       0.00         1430000       9000       17444       120000       944.79       80.17       1134.82       0.00         1440000       9000       17444       120000       144.47       80.70       133.55       0.00         1440000       9000       17444       120000       144.47       807.00       133.55       0.00         1470000       9000       17444       120000       144.47       807.00       133.55       0.00         1470000       9000       17444       120000       144.47       807.01       133.25       0.00         1490000       9000       17444       120000       144.47       807.71       133.0       0.00         150000       9000       17444       120000       144.47       807.71       130.0       0.00         150000       9000       17444       120000       144.47       81.77       130.0       0.00											
14100.00       90.00       173.46       12800.00       944.79       980.78       930.80       0.00         14200.00       90.00       173.46       1280.00       -1044.79       90.17       113.42       0.00         14200.00       90.00       173.46       1280.00       -1044.78       805.12       123.42       0.00         14400.00       90.00       173.46       1280.00       -1044.78       805.06       133.55       0.00         14700.00       90.00       173.46       1280.00       -144.47       807.80       135.22       0.00         14900.00       90.00       173.46       1280.00       -144.47       807.80       135.60       0.00         14900.00       90.00       173.46       1280.00       -144.47       801.81       11.16       0.00         1500.00       90.00       173.46       1280.00       -144.47       81.54       222.78       0.00         1500.00       90.00       173.46       1280.00       -244.74       81.54       222.74       0.00         1560.00       90.00       173.46       1280.00       -244.71       81.54       222.74       0.00         1560.00       90.00       173.46		13900.00	90.00	179.46			800.40	737.35	0.00		
1420000       90.00       173.46       1280000       944.79       882.21       103.44       0.00         1440000       90.00       173.46       1280000       114.78       805.12       123.19       0.00         1460000       90.00       179.46       1280000       124.477       807.80       132.92       0.00         1470000       90.00       179.46       1280000       144.477       807.84       153.29       0.00         1470000       90.00       179.46       1280000       144.477       807.84       153.166       0.00         1490000       90.00       179.46       1280000       144.47       808.89       181.166       0.00         1500000       90.00       179.46       1280000       124.47       81.62       128.17       180.40       0.00         1500000       90.00       179.46       128000       124.47       81.62       128.10       0.00         1500000       90.00       179.46       1280.00       224.47       81.62       225.70       0.00         1500000       90.00       179.46       1280.00       224.47       81.53       227.47       0.00         1500000       90.00       179.46 <th></th> <th>14000.00</th> <th>90.00</th> <th>179.46</th> <th>12800.00</th> <th>-744.80</th> <th>801.34</th> <th>836.71</th> <th>0.00</th> <th></th> <th></th>		14000.00	90.00	179.46	12800.00	-744.80	801.34	836.71	0.00		
1430000       90.00       173.46       1280000       -1044.79       80.12       124.82       0.00         1460000       90.00       173.46       1280000       -124.78       806.60       133.55       0.00         1470000       90.00       173.46       1280000       -124.78       807.00       132.29       0.00         1470000       90.00       173.46       1280000       -144.47       807.84       133.65       0.00         1480000       90.00       179.46       128000       -164.47       808.89       131.06       0.00         150000       90.00       179.46       128000       -164.47       808.89       131.06       0.00         150000       90.00       179.46       128000       -164.47       813.55       0.00         150000       90.00       179.46       128000       -164.47       813.55       0.00         150000       90.00       179.46       128000       -244.74       813.54       227.87       0.00         150000       90.00       179.46       128000       -244.74       813.42       227.87       0.00         1560000       90.00       179.46       128000       -244.71       813.42 <th></th> <th>14100.00</th> <th>90.00</th> <th>179.46</th> <th>12800.00</th> <th>-844.80</th> <th>802.29</th> <th>936.08</th> <th>0.00</th> <th></th> <th></th>		14100.00	90.00	179.46	12800.00	-844.80	802.29	936.08	0.00		
14400.0         90.00         179.46         12200.00         124.478         805.01         333.55         0.00           14500.00         90.00         179.46         12200.00         124.477         807.00         133.22         0.00           14600.00         90.00         179.46         12200.00         144.77         807.80         133.22         0.00           14600.00         90.00         179.46         12200.00         144.77         807.80         133.22         0.00           14600.00         90.00         179.46         12200.00         164.47.6         893.83         173.103         0.00           15000.00         90.00         179.46         12200.00         -144.47         81.61         1282.71         0.00           15000.00         90.00         179.46         12200.00         -244.47         81.54         227.24         0.00           15000.00         90.00         179.46         12200.00         -244.73         81.54         227.24         0.00           15000.00         90.00         179.46         1220.00         224.47         10.22         227.47         0.00           15000.00         90.00         179.46         1220.00         224.47											
145000         90.00         17946         128000         1344.77         807.94         133.25         0.00           1470000         90.00         17946         12800.00         144.477         807.94         133.22         0.00           14800.00         90.00         17946         12800.00         1644.77         807.89         131.25         0.00           15000.00         90.00         17946         12800.00         1744.75         817.07         183.04         0.00           15000.00         90.00         17946         12800.00         1744.75         817.66         202.13         0.00           15000.00         90.00         17946         12800.00         244.74         815.45         227.87         0.00           15000.00         90.00         17946         12800.00         244.74         815.45         227.87         0.00           15000.00         90.00         17946         12800.00         244.74         811.45         227.87         0.00           15000.00         90.00         17946         12800.00         244.72         813.31         265.34         0.00           15000.00         90.00         17946         12800.00         244.72         81											
146000         90.00         179.46         128000         143.477         807.00         135.22         0.00           14800.00         90.00         179.46         12800.00         -154.477         807.89         1531.65         0.00           14800.00         90.00         179.46         12800.00         -164.47.6         808.89         1531.65         0.00           15000.00         90.00         179.46         12800.00         -174.47         810.77         1830.40         0.00           1500.00         90.00         179.46         12800.00         -144.47         813.60         2128.50         0.00           1500.00         90.00         179.46         12800.00         -244.47         813.60         2128.50         0.00           1560.00         90.00         179.46         12800.00         -244.47         813.40         200.00         174.46         1280.00         -244.73         815.49         2227.87         0.00           1560.00         90.00         179.46         1280.00         -244.73         815.49         227.87         0.00           1560.00         90.00         179.46         1280.00         -244.71         812.20         282.48         0.00 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>											
147000       9000       17946       128000       -164477       80794       15326       0.00         148000       9000       17946       128000       -164476       80983       173103       0.00         150000       9000       17946       128000       -164476       80171       183040       0.00         151000       9000       17946       128000       -164475       81171       183040       0.00         152000       9000       17946       128000       -164475       81171       183040       0.00         154000       9000       17946       128000       -244478       81454       221250       0.00         156000       9000       17946       128000       -244473       81543       22527       0.00         156000       9000       17946       128000       -244472       81234       242540       0.00         1560000       9000       17946       128000       -244472       81234       22125       0.00         1560000       9000       17946       128000       -244474       81230       312215       0.00         1600000       9000       17946       128000       -244479       82230 </th <th></th>											
148000       9000       179.46       128000       -164.477       808.89       1731.03       0.00         150000       90.00       179.46       12800.00       -1744.76       810.77       1830.40       0.00         151000       90.00       179.46       12800.00       -1744.76       811.71       129.27       0.00         152000       90.00       179.46       12800.00       -244.475       811.60       212.850       0.00         1530000       90.00       179.46       12800.00       -244.474       815.45       227.87       0.00         1550000       90.00       179.46       12800.00       -244.73       815.49       2327.87       0.00         15600.00       90.00       179.46       12800.00       -244.73       81.44       242.60       0.00         15900.00       90.00       179.46       12800.00       -244.72       81.93       242.50       0.00         15900.00       90.00       179.46       12800.00       -244.71       81.14       81.14       92.14       1.14         16000.00       90.00       179.46       1280.00       -244.72       81.93       302.21       0.00         15000.00       90.00											
14900       9000       179.46       1280000       -164.76       809.83       173.10       0.00         150000       9000       179.46       1280000       -1744.75       811.77       183.40       0.00         1520000       90.00       179.46       1280000       -144.75       811.21       122.50       0.00         154000       90.00       179.46       128000       -244.74       81.54       227.24       0.00         155000       90.00       179.46       128000       -244.73       81.43       227.24       0.00         156000       90.00       179.46       128000       -244.73       81.43       227.24       0.00         156000       90.00       179.46       128000       -244.73       81.43       242.53       0.00         156000       90.00       179.46       128000       -244.71       812.14       282.48       0.00         150000       90.00       179.46       1280.00       -244.71       82.14       282.48       0.00         160000       90.00       179.46       1280.00       -344.79       82.14       282.45       0.00         160000       90.00       179.46       1280.00 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>											
150000       9000       17346       1280000       1744.76       810.77       183.40       0.00         1510000       9000       17346       1280000       1244.75       812.66       2029.13       0.00         1530000       9000       17344       1280000       2244.74       813.60       2228.80       0.00         1540000       9000       17344       1280000       2244.73       815.49       2227.87       0.00         1550000       9000       17344       1280000       244.73       815.49       2227.87       0.00         1500000       9000       17344       1280000       -244.73       815.49       225.377       0.00         1500000       9000       17346       1280000       -244.71       812.41       225.45       0.00         1500000       9000       17346       1280000       -244.71       812.42       822.08       0.00         1600000       9000       17346       1280000       -244.71       821.14       222.81       0.00         1600000       9000       17346       1280000       -244.70       812.84       80.09       122.15       0.00         1600000       9000       17346       <											
15100.00       9000       17346       12800.00       -1644.75       812.66       2029.13       0.00         15300.00       90.00       17346       12800.00       -2044.74       813.60       2128.50       0.00         15400.00       90.00       17346       12800.00       -2044.74       813.60       2128.50       0.00         15500.00       90.00       17346       12800.00       -2244.73       815.43       2327.24       0.00         15600.00       90.00       17346       12800.00       -2244.73       815.43       2426.00       0.00         15900.00       90.00       17346       12800.00       -2244.71       812.11       252.97       0.00         15900.00       90.00       17346       12800.00       -2244.71       812.02       228.40       0.00         15000.00       90.00       17346       1280.00       -2244.71       821.14       292.345       0.00         16000.00       90.00       17346       1280.00       -2244.71       821.4       292.215       0.00         16000.00       90.00       17346       1280.00       -2344.79       821.0       320.21       0.00         16000.00       90.00       <											
1520000       90.00       179.46       12800.00       -2044.74       813.60       2128.50       0.00         15400.00       90.00       179.46       12800.00       -2144.74       814.54       2227.37       0.00         15500.00       90.00       179.46       12800.00       -2244.73       815.44       2427.24       0.00         15500.00       90.00       179.46       12800.00       -244.73       817.44       2425.97       0.00         15700.00       90.00       179.46       12800.00       -244.72       819.26       272.71       0.00         15900.00       90.00       179.46       12800.00       -244.72       819.26       272.71       0.00         16000.00       90.00       179.46       12800.00       -244.71       820.20       222.18       0.00         16000.00       90.00       179.46       12800.00       -244.71       820.20       302.21       0.00         16200.00       90.00       179.46       12800.00       -344.68       823.97       322.15       0.00         16400.00       90.00       179.46       12800.00       -344.68       824.69       319.02       0.00         16400.00       90.00											
1500.00       90.00       17346       12800.00       -2244.73       815.49       2272.72       0.00         15500.00       90.00       17346       12800.00       -2244.73       817.37       2525.57       0.00         15700.00       90.00       17346       12800.00       -2244.73       817.37       2525.57       0.00         15800.00       90.00       17346       12800.00       -2244.73       817.37       2525.57       0.00         15900.00       90.00       17346       12800.00       -2244.71       812.3       2525.57       0.00         16000.00       90.00       17346       12800.00       -2244.71       821.4       292.45       0.00         16100.00       90.00       17346       12800.00       -2244.71       821.4       292.45       0.00         16400.00       90.00       17346       12800.00       -3244.69       822.94       3320.29       0.00         16400.00       90.00       17346       12800.00       -3244.69       823.97       3221.55       0.00         16600.00       90.00       17346       12800.00       -3244.69       823.97       320.29       0.00         16900.00       90.00       <											
15600.00       90.00       179.46       12800.00       -2344.73       815.49       2327.24       0.00         15700.00       90.00       179.46       12800.00       -2344.73       817.37       2525.97       0.00         15800.00       90.00       179.46       12800.00       -2444.72       818.31       2625.34       0.00         15900.00       90.00       179.46       12800.00       -244.71       821.14       292.47       10.00         16000.00       90.00       179.46       12800.00       -244.71       821.14       292.345       0.00         16100.00       90.00       179.46       12800.00       -244.70       822.08       322.21       0.00         16200.00       90.00       179.46       12800.00       -3244.70       823.03       312.18       0.00         16400.00       90.00       179.46       12800.00       -3244.69       823.97       321.55       0.00         16600.01       90.00       179.46       12800.00       -344.69       82.491       320.92       0.00         16700.00       90.00       179.46       1280.00       -344.68       82.74       3619.02       0.00         17000.00       90.00		15300.00	90.00	179.46	12800.00	-2044.74	813.60	2128.50	0.00		
1560.00       90.00       179.46       1280.00       -2444.73       816.43       2255.97       0.00         1580.00       90.00       179.46       12800.00       -254.72       818.31       265.34       0.00         1590.00       90.00       179.46       12800.00       -254.72       819.26       272.71       0.00         1600.00       90.00       179.46       12800.00       -2544.71       821.14       292.245       0.00         1610.00       90.00       179.46       12800.00       -2344.71       822.08       3022.81       0.00         1620.00       90.00       179.46       12800.00       -344.69       822.08       3022.81       0.00         16400.00       90.00       179.46       12800.00       -344.69       823.97       322.15       0.00         16500.00       90.00       179.46       12800.00       -344.68       82.68       3519.66       0.00         16600.00       90.00       179.46       12800.00       -344.46       82.68       3519.66       0.00         1690.00       90.00       179.46       1280.00       -344.67       82.68       3718.39       0.00         1700.00       90.00       179		15400.00	90.00	179.46	12800.00	-2144.74	814.54	2227.87	0.00		
15700.00       90.00       179.46       12800.00       -2544.72       818.31       2625.34       0.00         15900.00       90.00       179.46       12800.00       -2644.72       818.31       2625.34       0.00         16000.00       90.00       179.46       12800.00       -2644.72       818.31       2625.34       0.00         16000.00       90.00       179.46       12800.00       -2644.71       821.02       2224.71       0.00         16000.00       90.00       179.46       12800.00       -2844.71       821.02       282.48       0.00         16200.00       90.00       179.46       12800.00       -2844.71       821.03       3122.18       0.00         16400.00       90.00       179.46       12800.00       -344.69       824.91       3320.92       0.00         16600.00       90.00       179.46       12800.00       -344.68       824.94       3320.92       0.00         16600.00       90.00       179.46       12800.00       -344.64       826.80       319.66       0.00         16900.00       90.00       179.46       12800.00       -344.46       826.83       317.83       0.00         17000.00       90.00 <th></th>											
15800.0       90.00       179.46       12800.00       -2544.72       818.31       2625.34       0.00         16000.00       90.00       179.46       12800.00       -2644.72       819.26       2724.71       0.00         16000.00       90.00       179.46       12800.00       -274.471       821.14       2923.45       0.00         16200.00       90.00       179.46       12800.00       -2844.71       821.08       3022.81       0.00         16300.00       90.00       179.46       12800.00       -3244.70       823.03       3122.18       0.00         16600.00       90.00       179.46       12800.00       -3244.70       823.03       3122.18       0.00         16600.00       90.00       179.46       12800.00       -3244.67       826.80       3519.66       0.00         16600.00       90.00       179.46       12800.00       -344.68       826.80       3519.66       0.00         16900.00       90.00       179.46       12800.00       -344.68       830.57       317.13       0.00         17000.00       90.00       179.46       1280.00       -344.68       831.51       4715.86       0.00         17000.00       90.00 </th <th></th>											
15900.0       90.00       179.46       12800.00       -2644.72       819.26       2724.71       0.00         16100.00       90.00       179.46       12800.00       -2744.71       821.14       282.08       0.00         16200.00       90.00       179.46       12800.00       -2844.70       821.04       282.08       0.00         16200.00       90.00       179.46       12800.00       -2944.70       822.08       3022.81       0.00         16300.00       90.00       179.46       12800.00       -3144.69       823.93       3122.18       0.00         16600.00       90.00       179.46       12800.00       -3244.69       824.91       3320.92       0.00         16600.00       90.00       179.46       12800.00       -344.46       826.80       3718.39       0.00         16900.00       90.00       179.46       12800.00       -344.46       826.84       3717.80       0.00         16900.00       90.00       179.46       12800.00       -344.46       831.51       4016.50       0.00         17000.00       90.00       179.46       12800.01       -444.65       832.44       4115.86       0.00         17000.00       90.00 <th></th>											
16000.00       90.00       179.46       12800.00       -2244.71       820.20       2824.08       0.00         16100.00       90.00       179.46       12800.00       -2244.71       822.14       2923.45       0.00         16200.00       90.00       179.46       12800.00       -2244.71       822.08       0.00         16300.00       90.00       179.46       12800.00       -3244.70       822.08       0.00         16400.00       90.00       179.46       12800.00       -3244.69       823.97       322.155       0.00         16500.00       90.00       179.46       12800.00       -3344.69       825.86       3420.92       0.00         16600.00       90.00       179.46       12800.00       -344.46       827.47       3619.02       0.00         16700.00       90.00       179.46       12800.00       -344.67       828.68       3718.39       0.00         17000.00       90.00       179.46       12800.00       -344.66       830.57       917.13       0.00         1720.00       90.00       179.46       12800.00       -344.66       831.51       4016.50       0.00         17400.00       90.00       179.46       12800.01 </th <th></th>											
16100.00       90.00       179.46       12800.00       -2844.71       821.14       2923.45       0.00         16200.00       90.00       179.46       12800.00       -2944.70       822.08       3022.81       0.00         16300.00       90.00       179.46       12800.00       -3244.70       822.08       3022.81       0.00         16400.00       90.00       179.46       12800.00       -3244.69       824.91       320.92       0.00         16600.00       90.00       179.46       12800.00       -3244.69       824.91       320.92       0.00         16700.00       90.00       179.46       12800.00       -3444.68       827.74       3619.02       0.00         16800.00       90.00       179.46       12800.00       -344.68       827.74       3619.02       0.00         16900.00       90.00       179.46       12800.00       -344.64       825.63       3817.76       0.00         17000.00       90.00       179.46       12800.00       -344.64       835.73       3917.13       0.00         1720.00       90.00       179.46       12800.00       -344.64       835.74       4115.86       0.00         1720.00       90.00 <th></th>											
16200.00       90.00       179.46       12800.00       -2944.70       822.08       3022.81       0.00         16300.00       90.00       179.46       12800.00       -3044.70       823.03       3122.15       0.00         16400.00       90.00       179.46       12800.00       -3244.69       823.91       322.02       0.00         16500.00       90.00       179.46       12800.00       -3244.69       825.86       320.29       0.00         16600.00       90.00       179.46       12800.00       -3444.68       825.86       3519.66       0.00         16600.00       90.00       179.46       12800.00       -3444.68       827.74       3619.02       0.00         16900.00       90.00       179.46       1280.00       -3444.67       828.68       3718.39       0.00         17000.00       90.00       179.46       1280.00       -344.66       830.57       3917.13       0.00         17200.00       90.00       179.46       1280.00       -344.65       832.45       4115.86       0.00         17200.00       90.00       179.46       1280.01       -444.65       834.44       4314.60       0.00         17400.00       90.00											
16400.00       90.00       179.46       12800.00       -3144.69       823.97       3221.55       0.00         16500.00       90.00       179.46       12800.00       -3244.69       824.91       3320.92       0.00         16700.00       90.00       179.46       12800.00       -3444.68       826.80       3519.60       0.00         16700.00       90.00       179.46       12800.00       -3444.68       826.80       3519.60       0.00         16900.00       90.00       179.46       12800.00       -344.67       828.68       3718.39       0.00         17000.00       90.00       179.46       12800.00       -344.66       830.57       3917.13       0.00         17000.00       90.00       179.46       12800.00       -344.66       831.51       4016.50       0.00         17400.00       90.00       179.46       12800.01       -444.65       833.40       4215.23       0.00         17400.00       90.00       179.46       12800.01       -444.65       834.34       4314.60       0.00         17400.00       90.00       179.46       12800.01       -444.64       835.23       4513.34       0.00         17600.00       90.00 </th <th></th>											
16500.00       90.00       179.46       12800.00       -3244.69       824.91       3320.22       0.00         16600.00       90.00       179.46       12800.00       -3344.69       825.86       3420.29       0.00         16600.00       90.00       179.46       12800.00       -3544.68       826.80       3519.66       0.00         16900.00       90.00       179.46       12800.00       -3644.67       828.68       3718.39       0.00         17000.00       90.00       179.46       12800.00       -3744.67       829.63       3817.76       0.00         17100.00       90.00       179.46       12800.00       -344.66       830.57       3917.13       0.00         17200.00       90.00       179.46       12800.00       -344.66       831.51       4016.50       0.00         17300.00       90.00       179.46       12800.01       -4144.65       833.40       4215.23       0.00         17500.00       90.00       179.46       12800.01       -4244.65       834.24       4115.86       0.00         17600.00       90.00       179.46       12800.01       -4244.65       837.17       4612.271       0.00         17600.00       90		16300.00	90.00	179.46	12800.00	-3044.70	823.03	3122.18	0.00		
16600.00       90.00       179.46       12800.00       -3344.69       825.86       3420.29       0.00         16700.00       90.00       179.46       12800.00       -3444.68       826.80       3519.66       0.00         16900.00       90.00       179.46       12800.00       -3544.68       827.74       3619.02       0.00         16900.00       90.00       179.46       12800.00       -3644.76       829.63       3817.76       0.00         17000.00       90.00       179.46       12800.00       -3844.66       830.57       3917.13       0.00         17200.00       90.00       179.46       12800.00       -3844.66       831.51       4016.50       0.00         17300.00       90.00       179.46       12800.00       -344.465       832.45       4115.86       0.00         17400.00       90.00       179.46       12800.01       -4144.65       834.34       4314.60       0.00         17500.00       90.00       179.46       12800.01       -4444.65       836.23       4513.34       0.00         17600.00       90.00       179.46       12800.01       -4444.64       836.23       4513.34       0.00         1790.00       90		16400.00	90.00	179.46	12800.00	-3144.69	823.97	3221.55	0.00		
16700.00       90.00       179.46       12800.00       -3544.68       826.80       3519.66       0.00         16900.00       90.00       179.46       12800.00       -3644.67       828.68       3718.39       0.00         17000.00       90.00       179.46       12800.00       -3744.67       829.63       3817.76       0.00         17100.00       90.00       179.46       12800.00       -3844.66       830.57       3917.13       0.00         17200.00       90.00       179.46       12800.00       -3444.65       831.51       4016.50       0.00         17400.00       90.00       179.46       12800.00       -344.65       831.41       4016.50       0.00         17400.00       90.00       179.46       12800.01       -444.65       833.40       4215.23       0.00         17600.00       90.00       179.46       12800.01       -4244.65       834.34       4314.60       0.00         17600.00       90.00       179.46       12800.01       -4444.63       836.23       4513.34       0.00         17600.00       90.00       179.46       12800.01       -4444.64       836.24       4513.44       0.00         17800.00       90.											
16800.00       90.00       179.46       12800.00       -3544.68       827.74       3619.02       0.00         16900.00       90.00       179.46       12800.00       -3644.67       828.68       3718.39       0.00         17000.00       90.00       179.46       12800.00       -344.67       829.68       3817.76       0.00         17100.00       90.00       179.46       12800.00       -3844.66       830.57       3917.13       0.00         17200.00       90.00       179.46       12800.00       -3944.66       831.51       4016.50       0.00         17300.00       90.00       179.46       12800.00       -4044.65       832.45       4115.86       0.00         17400.00       90.00       179.46       12800.01       -4144.65       833.40       4215.23       0.00         17500.00       90.00       179.46       12800.01       -4344.64       835.28       4413.97       0.00         17600.00       90.00       179.46       12800.01       -4444.63       837.17       4612.71       0.00         17800.00       90.00       179.46       12800.01       -4444.63       838.11       4712.07       0.00         18000.00       90											
16900.00       90.00       179.46       12800.00       -3644.67       828.68       3718.39       0.00         17000.00       90.00       179.46       12800.00       -3744.67       829.63       3817.76       0.00         17100.00       90.00       179.46       12800.00       -3844.66       830.57       3917.13       0.00         17200.00       90.00       179.46       12800.00       -4044.65       832.45       4115.86       0.00         17300.00       90.00       179.46       12800.01       -4144.65       833.40       4215.23       0.00         17600.00       90.00       179.46       12800.01       -4244.65       834.34       4314.60       0.00         17600.00       90.00       179.46       12800.01       -4244.65       834.34       4314.97       0.00         17700.00       90.00       179.46       12800.01       -4444.64       836.23       4513.34       0.00         17800.00       90.00       179.46       12800.01       -4444.63       837.17       4612.71       0.00         17800.00       90.00       179.46       12800.01       -4444.63       838.11       4712.07       0.00         18000.00       9											
17000.00       90.00       179.46       12800.00       -3744.67       829.63       3817.76       0.00         17100.00       90.00       179.46       12800.00       -3844.66       830.57       3917.13       0.00         17200.00       90.00       179.46       12800.00       -3944.66       831.51       4016.50       0.00         17300.00       90.00       179.46       12800.01       -4044.65       832.45       4115.86       0.00         17600.00       90.00       179.46       12800.01       -4044.65       832.45       4115.86       0.00         17500.00       90.00       179.46       12800.01       -4244.65       834.34       4314.60       0.00         17600.00       90.00       179.46       12800.01       -4344.64       835.28       4413.97       0.00         17700.00       90.00       179.46       12800.01       -4444.64       836.23       4513.34       0.00         17800.00       90.00       179.46       12800.01       -4444.64       836.11       4712.07       0.00         18000.00       90.00       179.46       12800.01       -4444.63       837.17       4612.71       0.00         18000.00       9											
17100.00       90.00       179.46       12800.00       -3844.66       830.57       3917.13       0.00         17200.00       90.00       179.46       12800.00       -3944.66       831.51       4016.50       0.00         17300.00       90.00       179.46       12800.00       -4044.65       832.45       4115.86       0.00         17400.00       90.00       179.46       12800.01       -4144.65       833.40       4215.23       0.00         17500.00       90.00       179.46       12800.01       -4244.65       834.34       4314.60       0.00         17600.00       90.00       179.46       12800.01       -4344.64       835.28       4413.97       0.00         17700.00       90.00       179.46       12800.01       -4544.63       837.17       4612.71       0.00         17800.00       90.00       179.46       12800.01       -4644.63       838.11       4712.07       0.00         17800.00       90.00       179.46       12800.01       -4744.62       830.05       4811.44       0.00         1800.00       90.00       179.46       12800.01       -4744.62       840.04       910.81       0.00         1800.00       90.0											
17200.00       90.00       179.46       12800.00       -3944.66       831.51       4016.50       0.00         17300.00       90.00       179.46       12800.00       -4044.65       832.45       4115.86       0.00         17400.00       90.00       179.46       12800.01       -4144.65       833.40       4215.23       0.00         17500.00       90.00       179.46       12800.01       -4244.65       834.34       4314.60       0.00         17600.00       90.00       179.46       12800.01       -4444.64       835.28       4413.97       0.00         17700.00       90.00       179.46       12800.01       -4444.64       836.23       4513.34       0.00         17800.00       90.00       179.46       12800.01       -4444.64       836.23       4511.34       0.00         17900.00       90.00       179.46       12800.01       -4444.64       836.23       4811.44       0.00         18000.00       90.00       179.46       12800.01       -4444.62       839.05       4811.44       0.00         18000.00       90.00       179.46       12800.01       -4444.63       834.14       410.00         1800.00       90.00       17											
17300.0       90.00       179.46       12800.00       -4044.65       832.45       4115.86       0.00         17400.00       90.00       179.46       12800.01       -4144.65       833.40       4215.23       0.00         17500.00       90.00       179.46       12800.01       -4244.65       834.34       4314.60       0.00         17600.00       90.00       179.46       12800.01       -4344.64       835.28       4413.97       0.00         17700.00       90.00       179.46       12800.01       -4444.64       835.28       4513.34       0.00         17800.00       90.00       179.46       12800.01       -4444.64       835.28       4513.34       0.00         17800.00       90.00       179.46       12800.01       -4544.63       837.17       4612.71       0.00         17900.00       90.00       179.46       12800.01       -4744.62       839.05       4811.44       0.00         1800.00       90.00       179.46       12800.01       -4844.62       840.00       4910.81       0.00         1800.00       90.00       179.46       12800.01       -544.61       84.82       5208.91       0.00         1800.00       90.00 </th <th></th>											
17400.0090.00179.4612800.01-4144.65833.404215.230.0017500.0090.00179.4612800.01-4244.65834.344314.600.0017600.0090.00179.4612800.01-4344.64835.284413.970.0017700.0090.00179.4612800.01-4444.64835.234513.340.0017800.0090.00179.4612800.01-4444.63837.174612.710.001790.0090.00179.4612800.01-4744.62839.554811.440.001800.0090.00179.4612800.01-4744.62839.554811.440.001800.0090.00179.4612800.01-4844.63840.004910.810.0018100.0090.00179.4612800.01-5044.61840.945010.180.0018200.0090.00179.4612800.01-5144.61841.825109.550.0018400.0090.00179.4612800.01-5144.60842.755308.280.0018600.0090.00179.4612800.01-5244.60844.715407.650.0018600.0090.00179.4612800.01-5444.59845.655507.020.0018600.0090.00179.4612800.01-5444.59845.655507.020.0018600.0090.00179.4612800.01-5444.59845.655507.020.0018600.0090.00179.46<											
17600.00       90.00       179.46       12800.01       -4344.64       835.28       4413.97       0.00         17700.00       90.00       179.46       12800.01       -4444.64       836.23       4513.34       0.00         17800.00       90.00       179.46       12800.01       -4544.63       837.17       4612.71       0.00         17900.00       90.00       179.46       12800.01       -4544.63       837.17       4612.71       0.00         18000.00       90.00       179.46       12800.01       -4744.62       839.05       4811.44       0.00         18100.00       90.00       179.46       12800.01       -4744.62       839.05       4811.44       0.00         18200.00       90.00       179.46       12800.01       -4844.61       840.94       5010.18       0.00         18200.00       90.00       179.46       12800.01       -544.61       841.88       5109.55       0.00         18300.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18400.00       90.00       179.46       12800.01       -5144.60       844.71       5407.65       0.00         18600.00       90		17400.00			12800.01	-4144.65					
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17800.00       90.00       179.46       12800.01       -4544.63       837.17       4612.71       0.00         17900.00       90.00       179.46       12800.01       -4644.63       838.11       4712.07       0.00         18000.00       90.00       179.46       12800.01       -4744.62       839.05       4811.44       0.00         18100.00       90.00       179.46       12800.01       -4744.62       840.00       4910.81       0.00         18200.00       90.00       179.46       12800.01       -4844.62       840.94       5010.18       0.00         18200.00       90.00       179.46       12800.01       -4944.61       840.94       5101.81       0.00         18300.00       90.00       179.46       12800.01       -5144.61       840.94       5101.81       0.00         18400.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18600.00       90.00       179.46       12800.01       -5244.60       843.77       5308.28       0.00         18600.00       90.00       179.46       12800.01       -5444.59       845.65       5507.02       0.00         18700.00       9											
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18000.00       90.00       179.46       12800.01       -4744.62       839.05       4811.44       0.00         18100.00       90.00       179.46       12800.01       -4844.62       840.00       4910.81       0.00         18200.00       90.00       179.46       12800.01       -4944.61       840.94       5010.18       0.00         18300.00       90.00       179.46       12800.01       -5044.61       841.88       5109.55       0.00         18400.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18500.00       90.00       179.46       12800.01       -5144.60       843.77       5308.28       0.00         18600.00       90.00       179.46       12800.01       -5244.60       844.71       5407.65       0.00         18600.00       90.00       179.46       12800.01       -5344.60       844.71       5407.65       0.00         18700.00       90.00       179.46       12800.01       -5444.59       845.65       5507.02       0.00         18800.00       90.00       179.46       12800.01       -5444.59       846.60       5606.39       0.00											
18100.00       90.00       179.46       12800.01       -4844.62       840.00       4910.81       0.00         18200.00       90.00       179.46       12800.01       -4944.61       840.94       5010.18       0.00         18300.00       90.00       179.46       12800.01       -5044.61       841.88       5109.55       0.00         18400.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18500.00       90.00       179.46       12800.01       -5144.60       842.82       5208.91       0.00         18600.00       90.00       179.46       12800.01       -5244.60       842.82       5308.28       0.00         18600.00       90.00       179.46       12800.01       -5344.60       844.71       5407.65       0.00         18700.00       90.00       179.46       12800.01       -5444.59       845.65       5507.02       0.00         18800.00       90.00       179.46       12800.01       -544.59       846.60       5606.39       0.00											
18200.00       90.00       179.46       12800.01       -4944.61       840.94       5010.18       0.00         18300.00       90.00       179.46       12800.01       -5044.61       841.88       5109.55       0.00         18400.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18500.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18500.00       90.00       179.46       12800.01       -5244.60       843.77       5308.28       0.00         18600.00       90.00       179.46       12800.01       -5344.60       844.71       5407.65       0.00         18700.00       90.00       179.46       12800.01       -5444.59       845.65       5507.02       0.00         18800.00       90.00       179.46       12800.01       -5445.59       846.60       5606.39       0.00											
18300.00       90.00       179.46       12800.01       -5044.61       841.88       5109.55       0.00         18400.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18500.00       90.00       179.46       12800.01       -5244.60       843.77       5308.28       0.00         18600.00       90.00       179.46       12800.01       -5344.60       844.71       5407.65       0.00         18600.00       90.00       179.46       12800.01       -5344.60       844.71       5407.65       0.00         18700.00       90.00       179.46       12800.01       -5444.59       845.65       5507.02       0.00         18800.00       90.00       179.46       12800.01       -5444.59       846.60       5606.39       0.00											
18400.00       90.00       179.46       12800.01       -5144.61       842.82       5208.91       0.00         18500.00       90.00       179.46       12800.01       -5244.60       843.77       5308.28       0.00         18600.00       90.00       179.46       12800.01       -5344.60       844.71       5407.65       0.00         18700.00       90.00       179.46       12800.01       -5444.59       845.65       5507.02       0.00         18800.00       90.00       179.46       12800.01       -5444.59       845.65       5507.02       0.00											
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			90.00	179.46		-5444.59	845.65				
		18900.00	90.00	179.46	12800.01	-5644.58	847.54	5705.76	0.00		
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19400.00 90.00 179.46 12800.01 -6144.56 852.25 6202.60 0.00											

devon	Well: ARENA ROJA FED UNIT 812H County: Lea Wellbore: Permit Plan Design: Permit Plan #1						Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)				
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Connection		
	19500.00	90.00	179.46	12800.01	-6244.56	853.19	6301.96	0.00			
	19600.00	90.00	179.46	12800.01	-6344.55	854.14	6401.33	0.00			
	19700.00	90.00	179.46	12800.01	-6444.55	855.08	6500.70	0.00			
	19800.00	90.00	179.46	12800.01	-6544.54	856.02	6600.07	0.00			
	19900.00	90.00	179.46	12800.01	-6644.54	856.97	6699.44	0.00			
	20000.00	90.00	179.46	12800.01	-6744.53	857.91	6798.81	0.00			
	20100.00	90.00	179.46	12800.01	-6844.53	858.85	6898.17	0.00			
	20200.00	90.00	179.46	12800.01	-6944.53	859.79	6997.54	0.00			
	20200.10	90.00	179.46	12800.01	-6944.62	859.79	6997.64	0.00	exit		
	20280.10	90.00	179.46	12800.00	-7024.62	860.53	7077.13	0.00	BHL		

## **Devon Energy** APD VARIANCE DATA

## **OPERATOR NAME:** Devon Energy

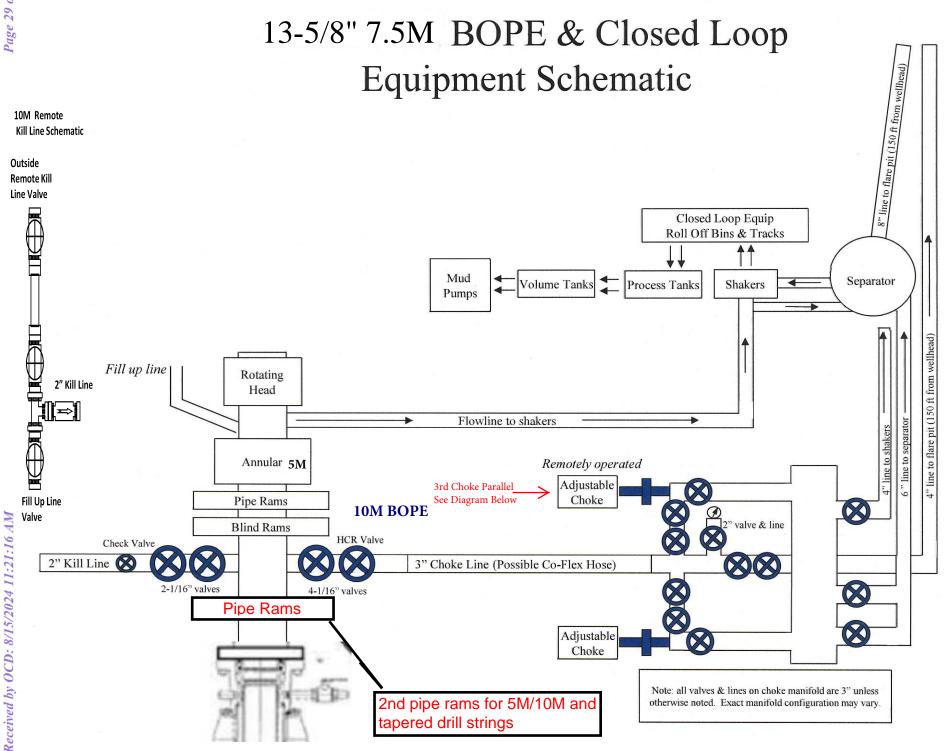
### 1. SUMMARY OF Variance:

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

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

### 2. Description of Operations

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



## **Devon Energy Annular Preventer Summary**

### 1. Component and Preventer Compatibility Table

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

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

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

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

### 2. Well Control Procedures

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

### General Procedure While Drilling

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

## **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.

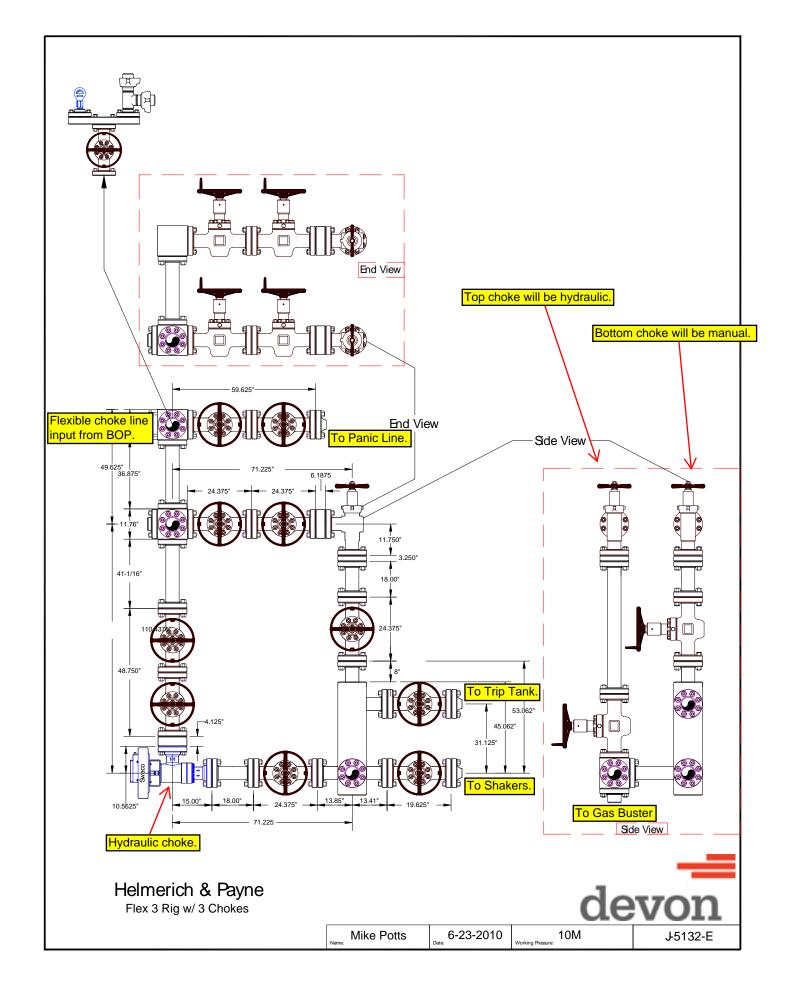
## General Procedure With No Pipe In Hole (Open Hole)

- 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.

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

	Devon Energy Production Company LP NMNM97910
	Section 27, T.26 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico 🗨

Arena Roja Fed Unit 811H
20'/S & 1590'/W
ATS-24-337
104000
N/a
N/a

Arena Roja Fed Unit 812H
20'/S & 2430'/W
ATS-24-338
104000
N/a
N/a

WELL NAME & NO.:	Arena Roja Fed Unit 813H
<b>BOTTOM HOLE FOOTAGE</b>	20'/S & 2010'/E
ATS/API ID:	ATS-24-341
APD ID:	104000
Sundry ID:	
Date APD Submitted:	N/a

.

## COA

			1
H2S	No		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	Critical		
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibov	vl 🛨	
Other	4 String	Capitan Reef	WIPP
		None 🔻	
Other	Pilot Hole	C Open Annulus	
	None <b>T</b>	<b>P</b> 1 N 6	D' C
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None 🔻	Int 1	Squeeze None
Special	□ Water	COM	Unit Unit
Requirements	Disposal/Injection		
Special	□ Batch Sundry	Waste Prevention	
Requirements		None 🔻	
Special	Break Testing	□ Offline	Casing
Requirements Variance		Cementing	Clearance

## A. HYDROGEN SULFIDE

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

## **B.** CASING

- The 10-3/4 inch surface casing shall be set at approximately 1040 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 14 3/4 inch in diameter.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <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:

#### **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

### **Option 2:**

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon at 7684' (539 sxs Class H/C+ additives).
- b. Second stage:
  - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 541 sxs Class C)

Operator has proposed to pump down **10-3/4**" X **8-5/8**" annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the **8-5/8**" casing to surface after the second stage <u>BH to verify TOC.</u></u>

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

## C. PRESSURE CONTROL

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

2.

## **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

## **Option 2:**

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000** (**10M**) psi. Variance is approved to use a **5000** (**5M**) Annular which shall be tested to **5000** (**5M**) psi.

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

## **D. SPECIAL REQUIREMENT (S)**

### <u>Unit Wells</u>

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

## **Commercial Well Determination**

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

## **GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

## A. CASING

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

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

Page 7 of 10

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170
  Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

## C. DRILLING MUD

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

## D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

Long Vo (LVO) 7/19/2024



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

# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

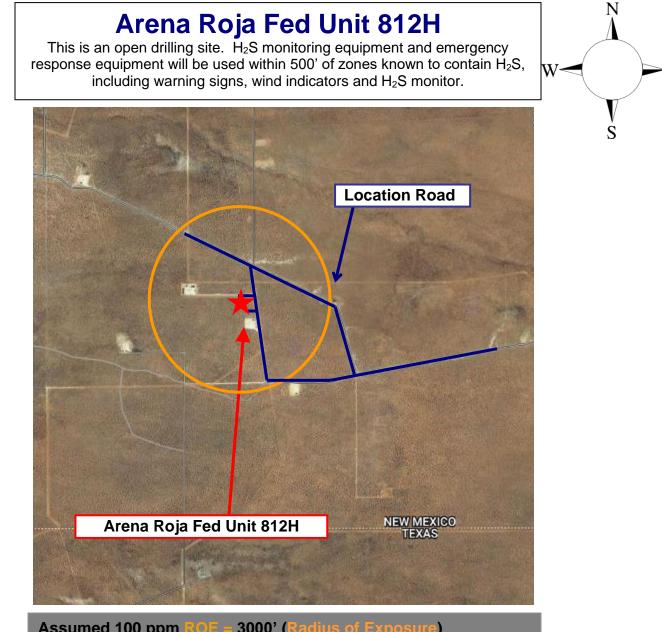
For

## Arena Roja Fed Unit 812H

Sec-27 T-26S R-35E 655' FNL & 1635' FWL LAT. = 32.019690° N (NAD83) LONG = 103.358589° W

Lea County NM

E



Assumed 100 ppm ROE = 3000' (Radius of Exposure) 100 ppm H2S concentration shall trigger activation of this plan.

### 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 H<sub>2</sub>S concentration shall trigger activation of this plan.

## Emergency Procedures

In the event of a release of gas containing H<sub>2</sub>S, 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 H<sub>2</sub>S 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
  - Detection of  $H_2S$ , 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 (SO<sub>2</sub>). 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 Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

## Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

## **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 (H<sub>2</sub>S) 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 (H<sub>2</sub>S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S Drilling Operations Plan.

There will be weekly H<sub>2</sub>S and well control drills for all personnel in each crew.

## II. HYDROGEN SULFIDE TRAINING

Note: All H<sub>2</sub>S 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<sub>2</sub>S.

## 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. H<sub>2</sub>S detection and monitoring equipment:

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S 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  $H_2S$  circulated to surface. Proper mud weight, safe drilling practices and the use of  $H_2S$  scavengers will minimize hazards when penetrating  $H_2S$  bearing zones.

## 5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.

## 6. Communication:

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

## 7. Well testing:

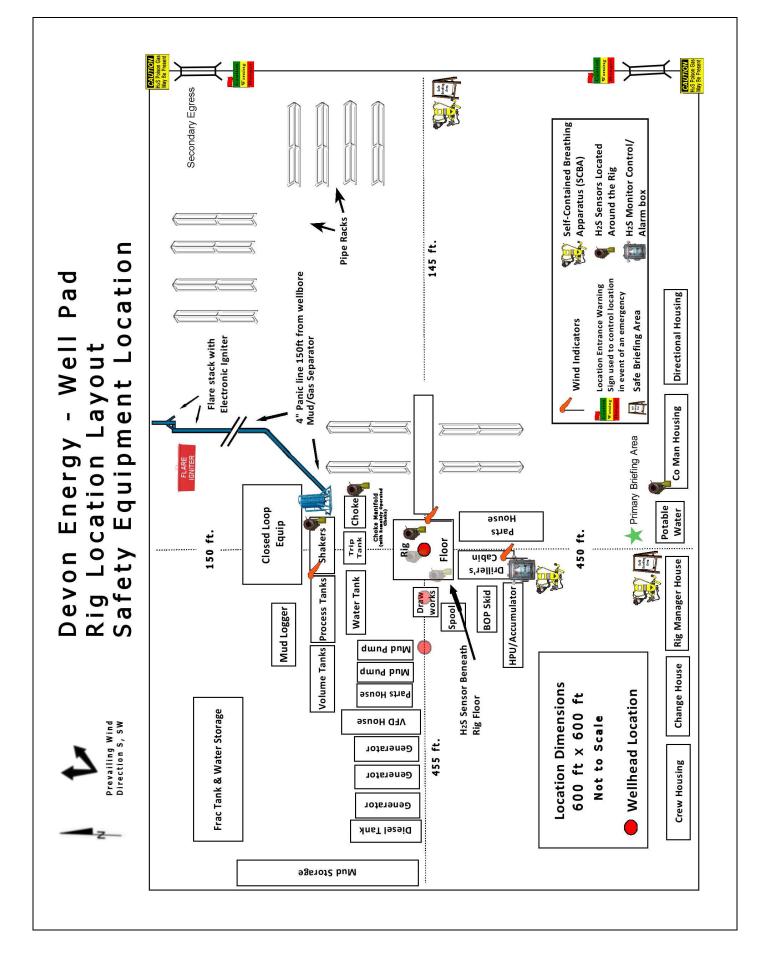
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Company Call List						
Employee/Company Contact 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			

Hobbs         Lea County Communication Authority         State Police         City Police         Sheriff's Office         Ambulance         Fire Department         LEPC (Local Emergency Planning Committee         NMOCD         US Bureau of Land Management (Closed)         Carlsbad         State Police         City Police         Sheriff's Office         Ambulance	)	397-9265 885-3138 397-9265 396-3611 911 397-9308 393-2870 393-6161 393-0002 885-3137 885-2111 887-7551
State Police City Police Sheriff's Office <b>Ambulance</b> Fire Department LEPC (Local Emergency Planning Committee NMOCD US Bureau of Land Management (Closed) US Bureau of Land Management (Closed) <b>Carlsbad</b> State Police City Police Sheriff's Office <b>Ambulance</b>	)	885-3138 397-9265 396-3611 911 397-9308 393-2870 393-6161 393-0002 885-3137 885-2111
City Police Sheriff's Office Ambulance Fire Department LEPC (Local Emergency Planning Committee NMOCD US Bureau of Land Management (Closed) US Bureau of Land Management (Closed) Carlsbad State Police City Police Sheriff's Office Ambulance	)	397-9265 396-3611 911 397-9308 393-2870 393-6161 393-0002 885-3137 885-3137
Sheriff's Office Ambulance Fire Department LEPC (Local Emergency Planning Committee NMOCD US Bureau of Land Management (Closed) Carlsbad State Police City Police Sheriff's Office Ambulance	)	396-3611 911 397-9308 393-2870 393-6161 393-0002 885-3137 885-3137
Ambulance         Fire Department         LEPC (Local Emergency Planning Committee         NMOCD         US Bureau of Land Management (Closed)         Carlsbad         State Police         City Police         Sheriff's Office         Ambulance	)	911 397-9308 393-2870 393-6161 393-0002 885-3137 885-3137 885-2111
Fire Department LEPC (Local Emergency Planning Committee NMOCD US Bureau of Land Management (Closed) Carlsbad State Police City Police Sheriff's Office Ambulance	)	397-9308 393-2870 393-6161 393-0002 885-3137 885-3137
LEPC (Local Emergency Planning Committee NMOCD US Bureau of Land Management (Closed) Carlsbad State Police City Police Sheriff's Office Ambulance	)	393-2870 393-6161 393-0002 885-3137 885-3137
NMOCD US Bureau of Land Management (Closed) Carlsbad State Police City Police Sheriff's Office Ambulance	)	393-6161 393-0002 885-3137 885-2111
US Bureau of Land Management (Closed) Carlsbad State Police City Police Sheriff's Office Ambulance		393-0002 885-3137 885-2111
Carlsbad State Police City Police Sheriff's Office Ambulance		885-3137 885-2111
State Police City Police Sheriff's Office Ambulance		885-2111
City Police Sheriff's Office Ambulance		885-2111
Sheriff's Office Ambulance		
Ambulance		887-7551
Fire Department		911
		885-3125
LEPC (Local Emergency Planning Committee	)	887-3798
US Bureau of Land Management		234-5972
		(505) 476-9600
24 HR		(505) 827-9126
National Emergency Response Center	(800) 424-8802	
National Pollution Control Center: Direct		(703) 872-6000
For Oil Spills		(800) 280-7118
		. ,
Wild Well Control		(281) 784-4700
Cudd Pressure Control (915)	699-0139	(915) 563-3356
		(575) 746-2757
		(575) 746-3569
		(575) 347-9836
		(575)-616-7155
		(575)-397-9265
		(800) 222-1222
		(800) 364-4366
	(,	
National Pollution Control Center		202-795-6958
NPCC – Oil Spills		800-280-7118
	24 HR National Emergency Response Center National Pollution Control Center: Direct For Oil Spills <b>Emergency Services</b> Wild Well Control Cudd Pressure Control (915) Halliburton B. J. Services Native Air – Emergency Helicopter – Hobbs For Air Ambulance - <b>Eddy County</b> Dispatch For Air Ambulance - <b>Lea County</b> (LCCA) Poison Control (24/7) Oil & Gas Pipeline 24 Hour Service NOAA – Website - www.nhc.noaa.gov National Pollution Control Center	National Emergency Response Center         National Pollution Control Center: Direct         For Oil Spills         Emergency Services         Wild Well Control         Cudd Pressure Control       (915) 699-0139         Halliburton         B. J. Services         Native Air – Emergency Helicopter – Hobbs         For Air Ambulance - Eddy County Dispatch         For Air Ambulance - Lea County (LCCA)         Poison Control (24/7)         Oil & Gas Pipeline 24 Hour Service         NOAA – Website - www.nhc.noaa.gov         National Pollution Control Center



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

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

District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	374249
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

CONDITIC	NO	
Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/3/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/3/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/3/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/3/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	9/3/2024

Action 374249

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