R	eceived by UCD. S/23/2023 9:41:12 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Reportso 03/22/2023
	Well Name: EXMOOR 10-34 FED COM	Well Location: T25S / R31E / SEC 15 / NENE /	County or Parish/State:
	Well Number: 334H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM0503	Unit or CA Name:	Unit or CA Number:
	<b>US Well Number:</b> 3001549349	Well Status: Approved Application for Permit to Drill	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP

LONG VO Date: 2023.03.23 09:54:00 -05'00'

#### **Notice of Intent**

Sundry ID: 2720764

Type of Submission: Notice of Intent

Date Sundry Submitted: 03/14/2023

Date proposed operation will begin: 03/14/2023

Type of Action: APD Change Time Sundry Submitted: 11:31

**Procedure Description:** ENGINEERING SUNDRY Devon Energy Production Company, L.P. respectfully requests approval for optional surface casing/drilling plan of 10-3/4" surface casing inside of 14-3/4" surface hole at previously permitted set depths. Devon Energy Production Company, L.P. will circulate class C cement to surface behind the 10-3/4" casing. Devon Energy Production Co., L.P. (Devon) respectfully requests to have a name change, BHL change, and break test variance on the subject well. Please see the attached documentation. Approved well name: Exmoor 10-34 Fed Com 334H Proposed well name: Exmoor 10-34 Fed Com 710H Approved BHL: 20 FNL & 530 FEL, 34-24S-31E, NENE Proposed BHL: 20 FNL & 820 FEL, 34-24S-31E, NENE

**NOI Attachments** 

#### **Procedure Description**

EXMOOR\_10\_34\_FED\_COM\_710H\_03.21.23\_20230321143101.pdf

10.750\_45.50\_J55\_SEAH\_20230314110436.pdf

break\_test\_variance\_BOP\_20230314110437.pdf

WA018233447\_EXMOOR\_10\_34\_FED\_COM\_710H\_WL\_SIGNED\_20230314110402.pdf

EXMOOR\_10\_34\_FED\_COM\_710H\_\_Directional\_Plan\_03\_02\_23\_20230314110402.pdf

k	eceived by OCD: 3/23/2023 9:41:12 AM Well Name: EXMOOR 10-34 FED COM	Well Location: T25S / R31E / SEC 15 / NENE /	County or Parish/State: Page 2 of 30
	Well Number: 334H	Type of Well: OIL WELL	Allottee or Tribe Name:
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#### Operator

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

Operator Electronic Signature: CHELSEY GREENName: DEVON ENERGY PRODUCTION COMPANY LPTitle: Regulatory Compliance ProfessionalStreet Address: 333 West Sheridan AvenueCity: Oklahoma CityState: OKPhone: (405) 228-8595

Email address: Chelsey.Green@dvn.com

#### **Field**

Representative Name: Street Address: City: State: Phone: Email address:

Zip:

Signed on: MAR 21, 2023 02:31 PM

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

LP

WELL NAME & NO.:	Exmoor 10-34 Fed Com 710H
SURFACE HOLE FOOTAGE:	515'/N & 634'/E
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 820'/E
ATS/API ID:	3001549349
APD ID:	
Sundry ID:	2720764

## COA

H2S	C Yes	🖸 No	
Potash	🖸 None	C Secretary	<b>C</b> R-111-P
Cave/Karst Potential	C Low	C Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	🖸 None	🖸 Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	🖸 Both
Wellhead Variance	C Diverter		
Other	□4 String	Capitan Reef	□ WIPP
Other	🗹 Fluid Filled	Pilot Hole	Open Annulus
Cementing	Contingency	EchoMeter	Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	🗖 Water Disposal	COM	🗖 Unit
Special Requirements	Batch Sundry		
Special Requirements	Break Testing	🗆 Offline	Casing
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 Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### **B.** CASING

- 1. The 10-3/4 inch surface casing shall be set at approximately 880 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - 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 6580' (505 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 709 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 BH to verify TOC.</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.

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

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

#### C. PRESSURE CONTROL

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

#### 2.

## **Option 1:**

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

## **Option 2:**

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

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

## **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 14-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

# GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - Lea County
    Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
    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 Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## A. CASING

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

## B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin

after cut-off or once cement reaches 500 psi compressive strength (including lead 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 Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

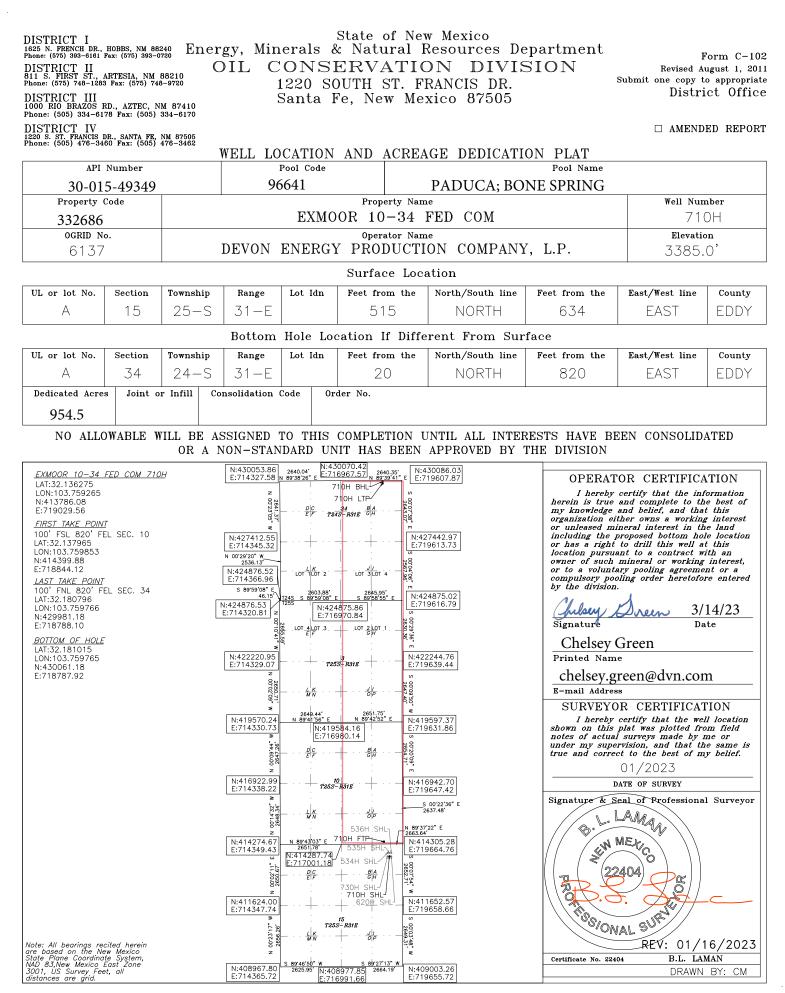
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

#### D. WASTE MATERIAL AND FLUIDS

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

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

LVO 3/23/2023



Released to Imaging: 3/23/2023 11:52:41 AM

#### Received by OCD: 3/23/2023 9:41:12 AM

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Intent
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As	Drilled	

API #

30-015-49349			
Operator Name:		Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, LP.		EXMOOR 10-34 FED COM	710H

#### Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
А	10	25S	31E		57	SOUTH	821	EAST	EDDY
Latitude				Longitude				NAD	
32.1378			-103.7599	1			83		

#### First Take Point (FTP)

UL P	Section 10	Township 25-S	Range 31-E	Lot	Feet 100	From N/S	Feet 820	From E/W	EDDY
Latitude 32.137965			Longitude <b>103.75</b>				NAD 83		

#### Last Take Point (LTP)

UL A	Section <b>34</b>	Township 24-S	Range 31-E	Lot	Feet 100	From N/S	Feet 820	From E/W	County EDDY
Latitude				U	Longitude			NAD	
32.180796					103.759766			83	

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

Is this well an infill well?

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

KZ 06/29/2018

#### 1. Geologic Formations

TVD of target	11660	Pilot hole depth	N/A
MD at TD:	27167	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	855		
Salt	1125		
Base of Salt	4340		
Cherry Canyon	5300		
Brushy Canyon	6580		
1st Bone Spring Lime	8220		
Bone Spring 1st	9290		
Bone Spring 2nd	9900		
3rd Bone Spring Lime	10415		
Bone Spring 3rd	11200		
Wolfcamp	11645		

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

To (TVD)

11660

2. Casing Program (Primary Design)								
		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TV)
14 3/4	10 3/4	45 1/2	J-55	BTC	0	880	0	880
9 7/8	8 5/8	32	P110	Sprint FJ	0	11100	0	11100
7 7/8	5 1/2	17	P110	BTC	0	27167	0	11660

#### Casing Program (Primary Design)

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

3	Cementing	Program	(Primary	Design)
J.	Cementing	Trogram	(I I IIIIai y	Dusign

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	534	Surf	13.2	1.44	Tail: Class H/ C Cement + additives
Int 1	709	Surf	13.2	1.44	Lead: Class C Cement + additives
Int I	505	6580	13.2	1.44	Tail: Class H / C + additives
Draduction	117	9137	9	3.27	Lead: Class H /C + additives
Production	2122	11137	13.2	1.44	Tail: Class H / C + additives

Cementing Program (Primary Design)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 Echometer 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 String	% Excess
Surface	50%
Intermediate 1	25%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three	æ Stillig D					
BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:
			Anı	nular	Х	50% of rated working pressure
Int 1	13-58"	5M	Blind	l Ram	Х	
	15-56	JIVI	Pipe	Ram		5M
			Doub	le Ram	Х	JIVI
			Other*			
				ar (5M)	Х	50% of rated working pressure
Production	13-5/8"	5M	Blind Ram		Х	
Tioduction	15-5/0	5101		Ram		5M
			Double Ram		Х	5141
			Other*			
			Annular (5M)			
			Blind Ram			
			Pipe Ram			
				le Ram		
			Other*			
N A variance is requested for	the use of	a diverter or	n the surface	casing. See	attached for	schematic.
Y A variance is requested to a	A variance is requested to run a 5 M annular on a 10M system					

#### 4. Pressure Control Equipment (Three String Design)

#### 5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

#### 6. Logging and Testing Procedures

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

Additiona	al 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	6366
Abnormal temperature	No
Abnormal temperature	

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<br/>greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is<br/>encountered measured values and formations will be provided to the BLM.NH2S is presentYH2S plan attached.

#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.

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

<sup>3</sup> 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 2 - Blowout Preventer Testing Procedure

#### Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

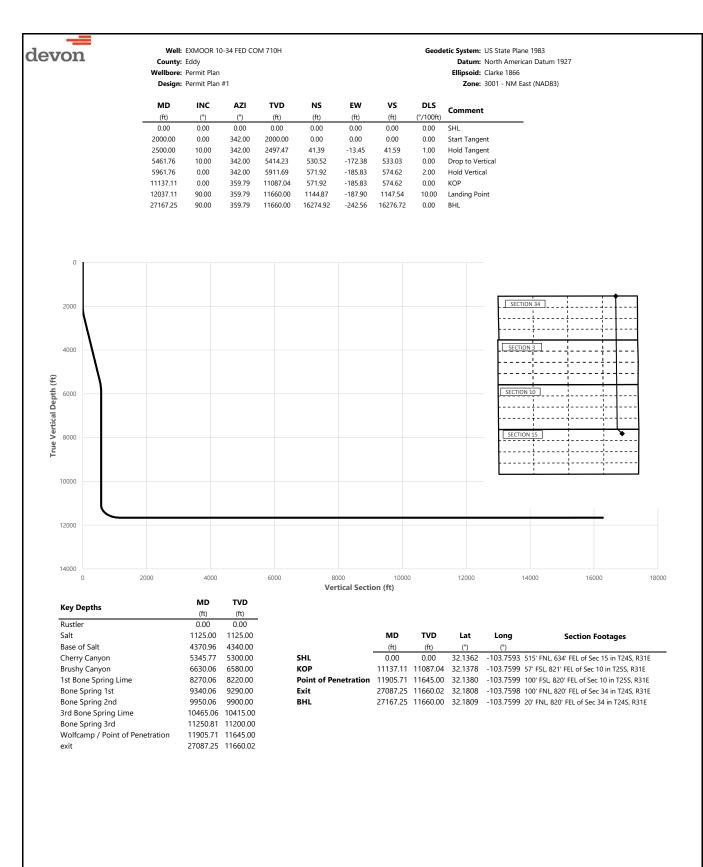
1. Well Control Response:

1. Primary barrier remains fluid

2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:

- a) Annular first
- b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
- c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third





Clearcol      Web:      Double D	SS State France 1909					VI 710H	)-34 FED COM	FXMOOD 1	W/60-		
Webset: Prime The 12      Control to 12 and 12 a	North American Datum 1927	•				VI / IUH	J-54 FED COI				devon
NO.      NO.      AZ      TVD      NS      EV      VS      DLS      connent        000      0.00									-		
(m)      (m)      (m)      (m)      (m)      (m)      (m)      (m)        100.00      0.00 <th>3001 - NM East (NAD83)</th> <th>Zone:</th> <th></th> <th></th> <th></th> <th></th> <th>#1</th> <th>Permit Plan</th> <th>Design:</th> <th></th> <th></th>	3001 - NM East (NAD83)	Zone:					#1	Permit Plan	Design:		
(m)      (m) <th></th> <th><b>.</b></th> <th>DLS</th> <th>vs</th> <th>EW</th> <th>NS</th> <th>TVD</th> <th>AZI</th> <th>INC</th> <th>MD</th> <th></th>		<b>.</b>	DLS	vs	EW	NS	TVD	AZI	INC	MD	
100.00      0.00      34.20      300.00      0.00      0.00      0.00        300.00      0.00      342.00      300.00      0.00      0.00      0.00        500.00      0.00      342.00      0.00      0.00      0.00      0.00        500.00      0.00      342.00      0.000      0.00      0.00      0.00        700.00      0.00      342.00      0.000      0.00      0.00      0.00        600.00      0.00      342.00      0.000      0.00      0.00      0.00        1000.00      0.00      342.00      1000.00      0.00      0.00      0.00        1125.00      0.00      342.00      1000.00      0.00      0.00      0.00        1126.00      0.00      342.00      1000.00      0.00      0.00      0.00        1100.00      0.00      342.00      1000.00      0.00      0.00      0.00        1100.00      0.00      342.00      1000.00      0.00      0.00      0.00        1100.00      0.00      342											-
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855.00      0.00      342.00      855.00      0.00      0.00      0.00      0.00      0.00        1000.00      0.00      342.00      1000.00      0.00      0.00      0.00      0.00        1100.00      0.00      342.00      1100.00      0.00<											
900.0      0.00      342.0      900.00      0.00      0.00      0.00        1100.00      0.00      342.0      1100.00      0.00      0.00      0.00      0.00        1125.00      0.00      342.00      120.00      0.00      0.00      0.00      0.00      0.00        1300.00      0.00      342.00      120.00      0.00      0.00      0.00      0.00      1.00        1500.00      0.00      342.00      150.00      0.00      0.00      0.00      0.00      1.00        1700.00      0.00      342.00      150.00      0.00      0.00      0.00      0.00      1.00        1900.00      0.00      342.00      190.00      0.00      0.00      0.00      0.00      1.00        1900.00      0.00      342.00      190.00      0.00      0.00      0.00      0.00      1.00        1900.00      0.00      342.00      190.00      0.00      0.00      0.00      0.00      1.00        2100.00      1.00      342.00      199.9				0.00	0.00	0.00	800.00				
10000      0.00      342.00      10000      0.00		Rustler									
11000    0.00    342.00    1102.00    0.00											
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130000    0.00    342.00    1300.00    0.00    0.00    0.00    0.00      1400.00    0.00    342.00    1500.00    0.00    0.00    0.00    0.00      1600.00    0.00    342.00    1500.00    0.00    0.00    0.00    0.00      1700.00    0.00    342.00    1500.00    0.00    0.00    0.00    0.00      1800.00    0.00    342.00    1900.00    0.00    0.00    0.00    0.00      2000.00    0.00    342.00    1900.00    0.00    0.00    0.00    0.00      2000.00    0.00    342.00    2999.90    6.64    -1.67    2.00      2000.00    1.00    342.00    299.79    1.845    1.50    2.00      2000.00    1.00    342.00    299.79    1.845    5.16    0.01      2000.00    1.00    342.00    299.79    1.93.45    5.19    1.00      2000.00    1.00    342.00    299.87    1.23.77    -40.28    1.94.5    1.00      2000.00    1.00 <th></th> <td>Salt</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Salt									
14000    0.00    342.00    16000    0.00    0.00    0.00    0.00      150000    0.00    342.00    16000    0.00    0.00    0.00    0.00      1700.00    0.00    342.00    1600.00    0.00    0.00    0.00    0.00      1800.00    0.00    342.00    1800.00    0.00    0.00    0.00    0.00      1900.00    0.00    342.00    1800.00    0.00    0.00    0.00    0.00      2000.00    0.00    342.00    2999.90    1.66    -0.54    1.67    2.00      2000.00    0.00    342.00    2299.40    1.433    -4.45    1.5.00    2.00      2000.00    1.00    342.00    2299.47    1.433    -4.45    1.5.00    2.00      2000.00    1.00    342.00    299.47    2.52    9.137    1.00    4.00      2000.00    1.00    342.00    299.437    1.42    -4.48    1.415    0.00      2000.00    1.00    342.00    299.433    1.745    -3.491    1.07.76 <th></th> <td></td>											
150000    0.00    342.00    150000    0.00    0.00    0.00    0.00      160000    0.00    342.00    1700.00    0.00    0.00    0.00    0.00      100000    0.00    342.00    1700.00    0.00    0.00    0.00    0.00      200000    0.00    342.00    1900.00    0.00    0.00    0.00    0.00      200000    0.00    342.00    209998    1.66    -54.1    1.67    2.00      200000    0.00    342.00    229457    1.68    1.50    2.00      200000    6.00    342.00    229857    2.751    1.842    1.59    1.00      200000    10.00    342.00    2595.57    571    1.842    518    0.00      200000    10.00    342.00    2794.71    3.345    1.50    1.00      200000    10.00    342.00    2795.91    7.184    7.417    1.00      200000    10.00    342.00    2791.71    3.82    1.517.7    0.00      200000    10.00 <t< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
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1800.00      0.00      342.00      1800.00      0.00      0.00      0.00      0.00        2000.00      0.00      342.00      2000.00      0.00      0.00      0.00      100        2000.00      0.00      342.00      2009.00      0.00      0.00      0.00      100        2000.00      0.00      342.00      2099.80      1.66      -0.54      1.67      2.00        2000.00      6.00      342.00      2299.45      1.439      -1.45      1.50      2.00        2000.00      10.00      342.00      259.55      5.731      -1.82      5.818      0.00        2000.00      10.00      342.00      279.291      9.94      -29.55      91.37      0.00        2000.00      10.00      342.00      279.291      9.94      -29.55      91.37      0.00        2000.00      10.00      342.00      278.37      -4.42      14.15      0.00        2000.00      10.00      342.00      328.37      19.074      -56.38      174.3      0.00											
190000      0.00      342.00      1900.00      0.00      0.00      0.00      Start Tangent        200000      2.00      342.00      2099.80      1.66      -0.54      1.67      2.00        2200.00      4.00      342.00      2199.84      6.64      -2.16      6.67      2.00        2400.00      8.00      342.00      299.70      2.65.2      -8.62      2.66.4      2.00        2400.00      8.00      342.00      299.70      2.65.2      -8.62      2.66.4      2.00        2600.00      10.00      342.00      299.74      7.43.5      1.15      0.00        2700.00      10.00      342.00      299.93      10.45      -34.91      10.79      0.00        2800.00      10.00      342.00      2991.39      107.45      5.31      1.00        2900.00      10.00      342.00      3983.71      10.33      1.015      0.00        300.00      10.00      342.00      388.71      123.97      -77.84      241.11      0.00        300.00      1											
210000    2.00    342.00    2199.84    1.66    -0.54    1.67    2.00      2200.00    4.00    342.00    2199.84    6.64    -2.16    6.67    2.00      2400.00    6.00    342.00    2298.70    265.2    -8.62    26.64    2.00      2500.00    10.00    342.00    259.55    57.91    -13.45    41.59    1.00      2600.00    10.00    342.00    259.59    57.91    -13.82    58.18    0.00      2700.00    10.00    342.00    299.39    107.45    -34.91    107.96    0.00      2900.00    10.00    342.00    2988.87    12.337    -40.28    124.55    0.00      3100.00    10.00    342.00    3285.31    157.00    -51.11    157.74    0.00      3200.00    10.00    342.00    3285.31    173.51    -56.38    174.33    0.00      3300.00    10.00    342.00    388.79    190.03    -67.14    190.93    0.00      3600.00    10.00    342.00    388.72    223.61											
220000    4.00    342.00    2199.84    6.64    -2.16    6.67    2.00      2400.00    6.00    342.00    2293.45    14.93    -4.85    15.00    2.00      2400.00    6.00    342.00    2299.45    7.43.3    -4.85    15.00    2.00      2500.00    10.00    342.00    2395.70    25.52    8.82    26.64    2.00      2600.00    10.00    342.00    2595.57    79.1    -13.82    58.18    0.00      2700.00    10.00    342.00    299.91    107.45    -34.91    107.96    0.00      3000.00    10.00    342.00    2989.87    12.397    -40.28    124.55    0.00      3100.00    10.00    342.00    308.35    140.48    -45.65    141.15    0.00      3200.00    10.00    342.00    3285.31    173.51    -56.38    174.33    0.00      3300.00    10.00    342.00    380.75    22.06    -72.48    22.411    0.00      3600.00    10.00    342.00    377.72    256.69		Start Tangent					2000.00				
2300.0    6.00    342.00    2294.5    14.93    -4.85    15.00    2.00      2400.00    8.00    342.00    2398.70    265.2    -8.62    26.64    2.00      2500.00    10.00    342.00    2595.95    57.91    -18.82    58.18    0.00      2600.00    10.00    342.00    2694.43    74.42    -24.18    74.77    0.00      2800.00    10.00    342.00    2694.77    -13.94    107.45    0.00      2800.00    10.00    342.00    2891.39    107.45    -34.91    107.95    0.00      3000.00    10.00    342.00    2891.39    107.45    -34.91    107.35    0.00      3100.00    10.00    342.00    388.35    140.48    -45.65    14.15    0.00      3300.00    10.00    342.00    388.37    190.03    -61.74    190.93    0.00      3600.00    10.00    342.00    388.75    220.54    -67.11    207.52    0.00      3600.00    10.00    342.00    3777.72    256.09    -83.											
2400.00    8.00    342.00    2398.70    26.52    -8.62    26.64    2.00      2500.00    10.00    342.00    2497.47    41.39    -13.45    85.18    0.00      2700.00    10.00    342.00    2595    57.91    -18.82    S6.18    0.00      2800.00    10.00    342.00    2792.91    90.94    -29.55    91.37    0.00      2800.00    10.00    342.00    2989.87    123.97    -34.98    124.55    0.00      3100.00    10.00    342.00    388.35    140.48    -45.65    141.15    0.00      3200.00    10.00    342.00    388.35    170.00    -51.01    157.74    0.00      3300.00    10.00    342.00    388.379    190.3    -61.74    190.93    0.00      3600.00    10.00    342.00    380.75    223.06    -72.48    24.11    0.00      3700.00    10.00    342.00    367.22    72.60    -88.57    73.89    0.00      3800.00    10.00    342.00    377.68    280.17 </td <th></th> <td></td>											
2600.00    10.00    342.00    2595.95    77.91    -18.82    58.18    0.00      2700.00    10.00    342.00    2694.43    74.42    -24.18    74.77    0.00      2800.00    10.00    342.00    2299.13    90.4    -29.55    91.37    0.00      2900.00    10.00    342.00    299.139    107.45    -34.91    107.96    0.00      3100.00    10.00    342.00    298.83    123.97    -40.28    124.55    0.00      3200.00    10.00    342.00    3166.83    157.00    -51.01    157.74    0.00      3300.00    10.00    342.00    3482.27    206.54    -67.11    207.52    0.00      3500.00    10.00    342.00    3482.27    206.54    -67.11    207.52    0.00      3600.00    10.00    342.00    3767.22    223.05    -77.84    24.070    0.00      3800.00    10.00    342.00    377.72    256.09    -83.21    257.30    0.00      3800.00    10.00    342.00    377.62											
2700.00    10.00    342.00    2694.43    74.42    -24.18    74.77    0.00      2800.00    10.00    342.00    2792.51    90.34    -29.55    91.37    0.00      3000.00    10.00    342.00    2891.39    107.45    -34.91    107.96    0.00      3100.00    10.00    342.00    2898.87    123.97    -40.28    124.55    0.00      3200.00    10.00    342.00    3088.35    140.48    -45.65    141.15    0.00      3300.00    10.00    342.00    3285.31    173.51    -56.38    174.33    0.00      3600.00    10.00    342.00    388.79    190.03    -61.71    190.93    0.00      3600.00    10.00    342.00    3672.23    239.57    -77.84    24.070    0.00      3800.00    10.00    342.00    3672.23    239.57    -77.84    240.70    0.00      3900.00    10.00    342.00    377.72    256.09    -83.21    257.30    0.00      4000.00    10.00    342.00    477.12		Hold Tangent		41.59	-13.45	41.39					
2800.00    10.00    342.00    2792.91    90.94    -29.55    91.37    0.00      2900.00    10.00    342.00    2891.39    107.45    -34.91    107.96    0.00      3100.00    10.00    342.00    2891.87    127.97    -40.28    124.55    0.00      3100.00    10.00    342.00    3088.35    140.48    -45.65    141.15    0.00      3300.00    10.00    342.00    3186.83    157.00    -51.01    157.74    0.00      3400.00    10.00    342.00    388.79    190.03    -61.74    190.93    0.00      3600.00    10.00    342.00    388.77    239.57    -77.84    240.70    0.00      3700.00    10.00    342.00    377.72    256.09    -88.57    273.89    0.00      3800.00    10.00    342.00    397.46    289.12    -93.94    290.48    0.00      4000.00    10.00    342.00    377.72    256.09    -88.57    273.67    0.00      4300.00    10.00    342.00    377.68											
2900.00    10.00    342.00    2891.39    107.45    -34.91    107.96    0.00      3100.00    10.00    342.00    2898.87    123.97    -40.28    124.55    0.00      3200.00    10.00    342.00    3088.35    140.48    -45.65    141.15    0.00      3300.00    10.00    342.00    3283.31    173.51    -56.38    174.33    0.00      3400.00    10.00    342.00    388.79    190.03    -61.74    190.93    0.00      3500.00    10.00    342.00    356.75    223.06    -72.48    224.11    0.00      3600.00    10.00    342.00    367.22    239.57    -77.84    240.70    0.00      3800.00    10.00    342.00    387.62    272.60    -88.57    273.89    0.00      3900.00    10.00    342.00    3974.82    289.12    -93.94    290.48    0.00      4100.00    10.00    342.00    4270.12    33.66    -110.04    3402.6    0.00      4300.00    10.00    342.00    426.00											
3100.00    10.00    342.00    3088.35    140.48    -45.65    141.15    0.00      3200.00    10.00    342.00    3166.83    157.00    -51.01    157.74    0.00      3400.00    10.00    342.00    3285.31    173.51    -56.38    174.33    0.00      3500.00    10.00    342.00    388.79    190.03    -61.74    190.93    0.00      3600.00    10.00    342.00    3580.75    223.06    -72.48    224.11    0.00      3700.00    10.00    342.00    3677.72    256.09    -83.21    257.30    0.00      3800.00    10.00    342.00    3777.72    256.09    -88.57    273.89    0.00      3900.00    10.00    342.00    3974.68    289.12    -93.94    290.48    0.00      4100.00    10.00    342.00    4771.64    322.15    -104.67    323.67    0.00      4370.96    10.00    342.00    4360.00    355.38    -99.31    307.48    0.00      4400.00    10.00    342.00    456.56 <th></th> <td></td>											
3200.00    10.00    342.00    3186.83    157.00    -51.01    157.74    0.00      3300.00    10.00    342.00    3285.31    173.51    -56.38    174.33    0.00      3500.00    10.00    342.00    3383.79    190.33    -61.71    207.52    0.00      3600.00    10.00    342.00    3580.75    223.06    -72.48    224.11    0.00      3700.00    10.00    342.00    3679.23    239.57    -77.84    240.70    0.00      3800.00    10.00    342.00    3679.23    239.57    -77.84    240.70    0.00      3900.00    10.00    342.00    3679.23    239.57    -77.84    240.70    0.00      3900.00    10.00    342.00    377.72    256.09    -88.57    273.89    0.00      4000.00    10.00    342.00    471.164    321.57    -104.67    323.67    0.00      4300.00    10.00    342.00    4340.00    350.38    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    34											
3300.00    10.00    342.00    3285.31    173.51    -56.38    174.33    0.00      3400.00    10.00    342.00    3383.79    190.03    -61.74    190.93    0.00      3500.00    10.00    342.00    3682.27    206.54    -67.11    207.52    0.00      3600.00    10.00    342.00    3580.75    223.06    -72.48    224.11    0.00      3700.00    10.00    342.00    3679.23    239.57    -77.84    240.70    0.00      3800.00    10.00    342.00    3777.72    256.09    -83.21    257.30    0.00      3900.00    10.00    342.00    3974.68    281.21    -93.34    290.48    0.00      4100.00    10.00    342.00    4071.16    322.15    -104.67    323.67    0.00      4300.00    10.00    342.00    470.12    338.66    -110.04    340.26    0.00      4300.00    10.00    342.00    4368.60    355.18    -115.41    356.66    0.00      4300.00    10.00    342.00    466.03<											
3400.00    10.00    342.00    3383.79    190.03    -61.74    190.93    0.00      3500.00    10.00    342.00    3482.27    206.54    -67.11    207.52    0.00      3600.00    10.00    342.00    3580.75    223.06    -72.48    224.11    0.00      3700.00    10.00    342.00    3672.22    239.57    -77.84    240.70    0.00      3800.00    10.00    342.00    397.62    272.60    -88.57    273.89    0.00      4000.00    10.00    342.00    397.68    289.12    -93.91    307.86    0.00      4100.00    10.00    342.00    4071.16    325.67    0.00    0.00      4300.00    10.00    342.00    4171.64    322.15    -104.67    323.67    0.00      4300.00    10.00    342.00    436.00    355.18    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    456.56    388.20    -126.14    390.40    0.00      4500.00    10.00    342.00    4661.0											
3600.00    10.00    342.00    3580.75    223.06    -72.48    224.11    0.00      3700.00    10.00    342.00    3679.23    239.57    -77.84    240.70    0.00      3800.00    10.00    342.00    3777.72    256.09    -83.21    257.30    0.00      3900.00    10.00    342.00    3876.20    272.60    -88.57    273.89    0.00      4000.00    10.00    342.00    3974.68    289.12    -93.94    290.48    0.00      4100.00    10.00    342.00    4073.16    305.63    -99.31    307.08    0.00      4200.00    10.00    342.00    4171.64    322.15    -104.67    323.67    0.00      4300.00    10.00    342.00    4200.10    356.38    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    4366.00    355.18    -115.41    390.04    0.00      4500.00    10.00    342.00    466.40    404.72    -131.50    406.63    0.00      4600.00    10.00										3400.00	
3700.00    10.00    342.00    3679.23    239.57    -77.84    240.70    0.00      3800.00    10.00    342.00    3777.72    256.09    -83.21    257.30    0.00      3900.00    10.00    342.00    3876.20    272.60    -88.57    273.89    0.00      4000.00    10.00    342.00    3974.68    289.12    -93.94    290.48    0.00      4100.00    10.00    342.00    4073.16    305.63    -99.31    307.08    0.00      4200.00    10.00    342.00    4071.12    338.66    -110.04    340.26    0.00      4300.00    10.00    342.00    4368.60    355.18    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    4368.60    355.18    -112.77    373.45    0.00      4500.00    10.00    342.00    456.56    388.20    -126.14    390.04    0.00      4600.00    10.00    342.00    4661.22    421.23    -136.87    423.23    0.00      4700.00    10.00 <td< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
3800.00    10.00    342.00    3777.72    256.09    -83.21    257.30    0.00      3900.00    10.00    342.00    3876.20    272.60    -88.57    273.89    0.00      4000.00    10.00    342.00    3974.68    289.12    -93.94    290.48    0.00      4100.00    10.00    342.00    4073.16    305.63    -99.31    307.08    0.00      4200.00    10.00    342.00    4171.64    322.15    -104.67    323.67    0.00      4300.00    10.00    342.00    4270.12    338.66    -110.04    340.26    0.00      4370.96    10.00    342.00    436.80    355.18    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    4368.60    355.18    -115.41    356.86    0.00      4500.00    10.00    342.00    4565.56    388.20    -126.14    390.44    0.00      4600.00    10.00    342.00    4661.00    437.75    -142.24    439.82    0.00      4800.00    10.00 <t< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
4000.00    10.00    342.00    3974.68    289.12    -93.94    290.48    0.00      4100.00    10.00    342.00    4073.16    305.63    -99.31    307.08    0.00      4200.00    10.00    342.00    4171.64    322.15    -104.67    323.67    0.00      4300.00    10.00    342.00    4270.12    338.66    -110.04    340.26    0.00      4370.96    10.00    342.00    4360.80    355.18    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    4368.60    355.18    -115.41    356.86    0.00      4500.00    10.00    342.00    4368.60    355.18    -115.41    390.44    0.00      4600.00    10.00    342.00    4565.56    388.20    -126.14    390.44    0.00      4700.00    10.00    342.00    4664.04    404.72    -131.50    406.63    0.00      4800.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00											
4100.00    10.00    342.00    4073.16    305.63    -99.31    307.08    0.00      4200.00    10.00    342.00    4171.64    322.15    -104.67    323.67    0.00      4300.00    10.00    342.00    4270.12    338.66    -110.04    340.26    0.00      4370.96    10.00    342.00    4340.00    350.38    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    4368.60    355.18    -115.41    356.86    0.00      4500.00    10.00    342.00    4365.56    388.20    -126.14    390.4    0.00      4600.00    10.00    342.00    4664.04    404.72    -131.50    406.63    0.00      4700.00    10.00    342.00    4661.00    437.75    -142.24    439.82    0.00      4800.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00    342.00    505.77    470.78    -152.97    473.01    0.00      5000.00    10.00											
4200.00    10.00    342.00    4171.64    322.15    -104.67    323.67    0.00      4300.00    10.00    342.00    4270.12    338.66    -110.04    340.26    0.00      4370.96    10.00    342.00    4340.00    350.38    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    4368.60    355.18    -115.41    356.86    0.00      4500.00    10.00    342.00    4467.08    371.69    -120.77    373.45    0.00      4600.00    10.00    342.00    455.56    388.20    -126.14    390.04    0.00      4700.00    10.00    342.00    4664.04    404.72    -131.50    406.63    0.00      4800.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      4900.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00    342.00    505.797    470.78    -152.97    473.01    0.00      5000.00    10.00											
4300.00    10.00    342.00    4270.12    338.66    -110.04    340.26    0.00      4370.96    10.00    342.00    4340.00    350.38    -113.85    352.04    0.00    Base of Salt      4400.00    10.00    342.00    4368.60    355.18    -115.41    356.86    0.00      4500.00    10.00    342.00    4667.08    371.69    -120.77    373.45    0.00      4600.00    10.00    342.00    4565.56    388.20    -126.14    390.44    0.00      4700.00    10.00    342.00    4565.56    388.20    -126.14    390.44    0.00      4800.00    10.00    342.00    4664.04    404.72    -131.50    406.63    0.00      4800.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00    342.00    495.48    454.26    -147.60    456.41    0.00      5100.00    10.00    342.00    505.797    470.78    -152.97    473.01    0.00      5200.00    10.00											
4400.00    10.00    342.00    4368.60    355.18    -115.41    356.86    0.00      4500.00    10.00    342.00    4467.08    371.69    -120.77    373.45    0.00      4600.00    10.00    342.00    4565.56    388.20    -126.14    390.04    0.00      4700.00    10.00    342.00    4664.04    404.72    -131.50    406.63    0.00      4800.00    10.00    342.00    4762.52    421.23    -136.87    423.23    0.00      4900.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00    342.00    4959.48    454.26    -147.60    456.41    0.00      5100.00    10.00    342.00    4959.48    454.26    -147.60    456.41    0.00      5200.00    10.00    342.00    5057.97    470.78    -152.97    473.01    0.00      5200.00    10.00    342.00    5156.45    487.29    -158.33    489.60    0.00      5300.00    10.00    342.00 <td< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
4500.00    10.00    342.00    4467.08    371.69    -120.77    373.45    0.00      4600.00    10.00    342.00    4565.56    388.20    -126.14    390.04    0.00      4700.00    10.00    342.00    4664.04    404.72    -131.50    406.63    0.00      4800.00    10.00    342.00    4762.52    421.23    -136.87    423.23    0.00      4900.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00    342.00    4959.48    454.26    -147.60    456.41    0.00      5100.00    10.00    342.00    5057.97    470.78    -152.97    473.01    0.00      5200.00    10.00    342.00    5156.45    487.29    -158.33    489.60    0.00      5300.00    10.00    342.00    5254.93    503.81    -163.70    506.19    0.00      5345.77    10.00    342.00    5353.41    520.32    -169.07    522.79    0.00    Cherry Canyon      5400.00    10.00		Base of Salt									
4600.00    10.00    342.00    4565.56    388.20    -126.14    390.04    0.00      4700.00    10.00    342.00    4664.04    404.72    -131.50    406.63    0.00      4800.00    10.00    342.00    4762.52    421.23    -136.87    423.23    0.00      4900.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00    342.00    4959.48    454.26    -147.60    456.41    0.00      5100.00    10.00    342.00    495.797    470.78    -152.97    473.01    0.00      5200.00    10.00    342.00    5156.45    487.29    -158.33    489.60    0.00      5300.00    10.00    342.00    5254.93    503.81    -163.70    5061.9    0.00      5345.77    10.00    342.00    5300.00    511.37    -166.16    513.79    0.00    Cherry Canyon      5400.00    10.00    342.00    5353.41    520.32    -169.07    522.79    0.00    Cherry Canyon											
4700.0010.00342.004664.04404.72-131.50406.630.004800.0010.00342.004762.52421.23-136.87423.230.004900.0010.00342.004861.00437.75-142.24439.820.005000.0010.00342.004959.48454.26-147.60456.410.005100.0010.00342.005057.97470.78-152.97473.010.005200.0010.00342.005156.45487.29-158.33489.600.005300.0010.00342.005254.93503.81-163.70506.190.005345.7710.00342.005353.41520.32-169.07522.790.005400.0010.00342.005353.41520.32-169.07522.790.00											
4900.00    10.00    342.00    4861.00    437.75    -142.24    439.82    0.00      5000.00    10.00    342.00    4959.48    454.26    -147.60    456.41    0.00      5100.00    10.00    342.00    5057.97    470.78    -152.97    473.01    0.00      5200.00    10.00    342.00    5156.45    487.29    -158.33    489.60    0.00      5300.00    10.00    342.00    5254.93    503.81    -163.70    506.19    0.00      5345.77    10.00    342.00    5300.00    511.37    -166.16    513.79    0.00    Cherry Canyon      5400.00    10.00    342.00    5353.41    520.32    -169.07    522.79    0.00											
5000.00    10.00    342.00    4959.48    454.26    -147.60    456.41    0.00      5100.00    10.00    342.00    5057.97    470.78    -152.97    473.01    0.00      5200.00    10.00    342.00    5156.45    487.29    -158.33    489.60    0.00      5300.00    10.00    342.00    5254.93    503.81    -163.70    506.19    0.00      5345.77    10.00    342.00    5300.00    511.37    -166.16    513.79    0.00    Cherry Canyon      5400.00    10.00    342.00    5353.41    520.32    -169.07    522.79    0.00											
5100.00    10.00    342.00    5057.97    470.78    -152.97    473.01    0.00      5200.00    10.00    342.00    5156.45    487.29    -158.33    489.60    0.00      5300.00    10.00    342.00    5254.93    503.81    -163.70    506.19    0.00      5345.77    10.00    342.00    5300.00    511.37    -166.16    513.79    0.00    Cherry Canyon      5400.00    10.00    342.00    5353.41    520.32    -169.07    522.79    0.00											
5300.00 10.00 342.00 5254.93 503.81 -163.70 506.19 0.00 5345.77 10.00 342.00 5300.00 511.37 -166.16 513.79 0.00 Cherry Canyon 5400.00 10.00 342.00 5353.41 520.32 -169.07 522.79 0.00											
5345.77 10.00 342.00 5300.00 511.37 -166.16 513.79 0.00 Cherry Canyon 5400.00 10.00 342.00 5353.41 520.32 -169.07 522.79 0.00			0.00				5156.45				
5400.00 10.00 342.00 5353.41 520.32 -169.07 522.79 0.00		<b>c</b> i <b>c</b>									
		Cherry Canyon									
		Drop to Vertical									
5500.00 9.24 342.00 5451.93 536.60 -174.35 539.14 2.00			2.00	539.14	-174.35	536.60	5451.93	342.00	9.24	5500.00	
5600.00 7.24 342.00 5550.90 550.22 -178.78 552.83 2.00											
5700.00 5.24 342.00 5650.30 560.55 -182.13 563.20 2.00 5800.00 3.24 342.00 5750.02 567.57 -184.42 570.26 2.00											
5900.00 1.24 342.00 5849.94 571.28 -185.62 573.99 2.00											
5961.76 0.00 342.00 5911.69 571.92 -185.83 574.62 2.00 Hold Vertical		Hold Vertical	2.00	574.62	-185.83	571.92	5911.69	342.00	0.00		
6000.00 0.00 359.79 5949.94 571.92 -185.83 574.62 0.00 6100.00 0.00 259.79 6049.94 571.92 185.83 574.62 0.00											
6100.00 0.00 359.79 6049.94 571.92 -185.83 574.62 0.00 6200.00 0.00 359.79 6149.94 571.92 -185.83 574.62 0.00											
6300.00 0.00 359.79 6249.94 571.92 -185.83 574.62 0.00											

r										
			5V0.4005	0.24550.000	4 7101 -			_		
devon		Well: County:		0-34 FED COM	vi /10H				-	US State Plane 1983 North American Datum 1927
			Permit Plar	1						Clarke 1866
			Permit Plar						•	3001 - NM East (NAD83)
	MD (ft)	INC	<b>AZI</b> (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment	
	6400.00	(°) 0.00	359.79	6349.94	571.92	-185.83	574.62	0.00		
	6500.00	0.00	359.79	6449.94	571.92	-185.83	574.62	0.00		
	6600.00	0.00	359.79	6549.94	571.92	-185.83	574.62	0.00		
	6630.06	0.00	359.79	6580.00	571.92	-185.83	574.62	0.00	Brushy Canyon	
	6700.00 6800.00	0.00 0.00	359.79 359.79	6649.94 6749.94	571.92 571.92	-185.83 -185.83	574.62 574.62	0.00 0.00		
	6900.00	0.00	359.79	6749.94 6849.94	571.92	-185.83	574.62 574.62	0.00		
	7000.00	0.00	359.79	6949.94	571.92	-185.83	574.62	0.00		
	7100.00	0.00	359.79	7049.94	571.92	-185.83	574.62	0.00		
	7200.00	0.00	359.79	7149.94	571.92	-185.83	574.62	0.00		
	7300.00 7400.00	0.00	359.79	7249.94	571.92 571.92	-185.83	574.62	0.00 0.00		
	7400.00	0.00 0.00	359.79 359.79	7349.94 7449.94	571.92	-185.83 -185.83	574.62 574.62	0.00		
	7600.00	0.00	359.79	7549.94	571.92	-185.83	574.62	0.00		
	7700.00	0.00	359.79	7649.94	571.92	-185.83	574.62	0.00		
	7800.00	0.00	359.79	7749.94	571.92	-185.83	574.62	0.00		
	7900.00	0.00	359.79	7849.94	571.92	-185.83	574.62	0.00		
	8000.00 8100.00	0.00 0.00	359.79 359.79	7949.94 8049.94	571.92 571.92	-185.83 -185.83	574.62 574.62	0.00 0.00		
	8200.00	0.00	359.79	8149.94	571.92	-185.83	574.62	0.00		
	8270.06	0.00	359.79	8220.00	571.92	-185.83	574.62	0.00	1st Bone Spring Li	me
	8300.00	0.00	359.79	8249.94	571.92	-185.83	574.62	0.00		
	8400.00	0.00	359.79	8349.94	571.92	-185.83	574.62	0.00		
	8500.00 8600.00	0.00 0.00	359.79 359.79	8449.94 8549.94	571.92 571.92	-185.83 -185.83	574.62 574.62	0.00 0.00		
	8700.00	0.00	359.79	8649.94 8649.94	571.92	-185.83	574.62 574.62	0.00		
	8800.00	0.00	359.79	8749.94	571.92	-185.83	574.62	0.00		
	8900.00	0.00	359.79	8849.94	571.92	-185.83	574.62	0.00		
	9000.00	0.00	359.79	8949.94	571.92	-185.83	574.62	0.00		
	9100.00	0.00	359.79	9049.94	571.92	-185.83	574.62	0.00		
	9200.00 9300.00	0.00 0.00	359.79 359.79	9149.94 9249.94	571.92 571.92	-185.83 -185.83	574.62 574.62	0.00 0.00		
	9340.06	0.00	359.79	9290.00	571.92	-185.83	574.62	0.00	Bone Spring 1st	
	9400.00	0.00	359.79	9349.94	571.92	-185.83	574.62	0.00		
	9500.00	0.00	359.79	9449.94	571.92	-185.83	574.62	0.00		
	9600.00	0.00	359.79	9549.94	571.92	-185.83	574.62	0.00		
	9700.00 9800.00	0.00 0.00	359.79 359.79	9649.94 9749.94	571.92 571.92	-185.83 -185.83	574.62 574.62	0.00 0.00		
	9900.00	0.00	359.79	9849.94	571.92	-185.83	574.62	0.00		
	9950.06	0.00	359.79	9900.00	571.92	-185.83	574.62	0.00	Bone Spring 2nd	
	10000.00	0.00	359.79	9949.94	571.92	-185.83	574.62	0.00		
	10100.00	0.00	359.79	10049.94	571.92	-185.83	574.62	0.00		
	10200.00 10300.00	0.00 0.00	359.79 359.79	10149.94 10249.94	571.92 571.92	-185.83 -185.83	574.62 574.62	0.00 0.00		
	10400.00	0.00	359.79	10249.94	571.92	-185.83	574.62	0.00		
	10465.06	0.00	359.79	10415.00	571.92	-185.83	574.62	0.00	3rd Bone Spring L	ime
	10500.00	0.00	359.79	10449.94	571.92	-185.83	574.62	0.00		
	10600.00	0.00	359.79	10549.94	571.92	-185.83	574.62	0.00		
	10700.00	0.00	359.79	10649.94 10749.94	571.92	-185.83	574.62	0.00		
	10800.00 10900.00	0.00 0.00	359.79 359.79	10749.94 10849.94	571.92 571.92	-185.83 -185.83	574.62 574.62	0.00 0.00		
	11000.00	0.00	359.79	10949.94	571.92	-185.83	574.62	0.00		
	11100.00	0.00	359.79	11049.94	571.92	-185.83	574.62	0.00		
	11137.11	0.00	359.79	11087.04	571.92	-185.83	574.62	0.00	KOP	
	11200.00	6.29	359.79	11149.81	575.37	-185.84	578.07	10.00	Popo Contra Dad	
	11250.81 11300.00	11.37 16.29	359.79 359.79	11200.00 11247.75	583.16 594.92	-185.87 -185.91	585.87 597.62	10.00 10.00	Bone Spring 3rd	
	11400.00	26.29	359.79	11340.81	631.18	-186.04	633.88	10.00		
	11500.00	36.29	359.79	11426.15	683.05	-186.23	685.75	10.00		
	11600.00	46.29	359.79	11501.20	748.95	-186.47	751.65	10.00		
	11700.00	56.29	359.79	11563.66	826.88	-186.75	829.57	10.00		
	11800.00	66.29	359.79	11611.64	914.48	-187.07	917.16	10.00		
	11900.00 11905.71	76.29 76.86	359.79 359.79	11643.67 11645.00	1009.07 1014.63	-187.41 -187.43	1011.75 1017.31	10.00 10.00	Wolfcamp / Point	of Penetration
	12000.00	86.29	359.79	11658.80	1107.79	-187.77	1110.47	10.00		
	12037.11	90.00	359.79	11660.00	1144.87	-187.90	1147.54	10.00	Landing Point	
	12100.00	90.00	359.79	11660.00	1207.76	-188.12	1210.43	0.00		
	12200.00	90.00	359.79	11660.00	1307.76	-188.49	1310.43	0.00		
	12300.00 12400.00	90.00 90.00	359.79 359.79	11660.00 11660.00	1407.76 1507.76	-188.85 -189.21	1410.42 1510.41	0.00 0.00		
		2 0.00	233.13					0.00		

1		County: Wellbore:			M 710H				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) 12500.00	(°) 90.00	(°) 359.79	(ft) 11660.00	(ft) 1607.76	(ft) -189.57	(ft) 1610.41	(°/100ft) 0.00	
	12600.00	90.00	359.79	11660.00	1707.76	-189.93	1710.40	0.00	
	12700.00	90.00	359.79	11660.00	1807.76	-190.30	1810.40	0.00	
	12800.00	90.00	359.79	11660.00	1907.76	-190.66	1910.39	0.00	
	12900.00	90.00	359.79	11660.00	2007.76	-191.02	2010.38	0.00	
	13000.00	90.00	359.79	11660.00	2107.76	-191.38	2110.38	0.00	
	13100.00	90.00	359.79	11660.00	2207.76	-191.74	2210.37	0.00	
	13200.00	90.00	359.79	11660.00	2307.76	-192.10	2310.36	0.00	
	13300.00 13400.00	90.00 90.00	359.79 359.79	11660.00 11660.00	2407.76 2507.76	-192.47 -192.83	2410.36 2510.35	0.00 0.00	
	13500.00	90.00	359.79	11660.00	2607.75	-192.85	2610.33	0.00	
	13600.00	90.00	359.79	11660.00	2707.75	-193.55	2710.34	0.00	
	13700.00	90.00	359.79	11660.00	2807.75	-193.91	2810.33	0.00	
	13800.00	90.00	359.79	11660.00	2907.75	-194.28	2910.33	0.00	
	13900.00	90.00	359.79	11660.00	3007.75	-194.64	3010.32	0.00	
	14000.00	90.00	359.79	11660.00	3107.75	-195.00	3110.31	0.00	
	14100.00	90.00	359.79	11660.00	3207.75	-195.36	3210.31	0.00	
	14200.00	90.00	359.79	11660.00	3307.75	-195.72	3310.30	0.00	
	14300.00	90.00	359.79	11660.00	3407.75	-196.08	3410.29	0.00	
	14400.00 14500.00	90.00 90.00	359.79 359.79	11660.00 11660.00	3507.75 3607.75	-196.45 -196.81	3510.29 3610.28	0.00 0.00	
	14500.00 14600.00	90.00 90.00	359.79 359.79	11660.00	3607.75 3707.75	-196.81 -197.17	3610.28 3710.27	0.00	
	14800.00	90.00	359.79	11660.00	3807.75	-197.17	3810.27	0.00	
	14800.00	90.00	359.79	11660.00	3907.75	-197.89	3910.26	0.00	
	14900.00	90.00	359.79	11660.00	4007.75	-198.26	4010.26	0.00	
	15000.00	90.00	359.79	11660.00	4107.75	-198.62	4110.25	0.00	
	15100.00	90.00	359.79	11660.00	4207.74	-198.98	4210.24	0.00	
	15200.00	90.00	359.79	11660.00	4307.74	-199.34	4310.24	0.00	
	15300.00	90.00	359.79	11660.00	4407.74	-199.70	4410.23	0.00	
	15400.00	90.00	359.79	11660.00	4507.74	-200.06	4510.22	0.00	
	15500.00 15600.00	90.00 90.00	359.79 359.79	11660.00 11660.00	4607.74 4707.74	-200.43 -200.79	4610.22 4710.21	0.00 0.00	
	15700.00	90.00	359.79	11660.00	4807.74	-201.15	4810.20	0.00	
	15800.00	90.00	359.79	11660.00	4907.74	-201.51	4910.20	0.00	
	15900.00	90.00	359.79	11660.00	5007.74	-201.87	5010.19	0.00	
	16000.00	90.00	359.79	11660.00	5107.74	-202.24	5110.19	0.00	
	16100.00	90.00	359.79	11660.01	5207.74	-202.60	5210.18	0.00	
	16200.00	90.00	359.79	11660.01	5307.74	-202.96	5310.17	0.00	
	16300.00	90.00	359.79	11660.01	5407.74	-203.32	5410.17	0.00	
	16400.00	90.00	359.79	11660.01	5507.74	-203.68	5510.16	0.00	
	16500.00 16600.00	90.00 90.00	359.79 359.79	11660.01 11660.01	5607.74 5707.73	-204.04 -204.41	5610.15 5710.15	0.00 0.00	
	16600.00	90.00 90.00	359.79 359.79	11660.01	5707.73 5807.73	-204.41 -204.77	5710.15 5810.14	0.00	
	16800.00	90.00	359.79	11660.01	5907.73	-204.77	5910.14 5910.13	0.00	
	16900.00	90.00	359.79	11660.01	6007.73	-205.49	6010.13	0.00	
	17000.00	90.00	359.79	11660.01	6107.73	-205.85	6110.12	0.00	
	17100.00	90.00	359.79	11660.01	6207.73	-206.22	6210.12	0.00	
	17200.00	90.00	359.79	11660.01	6307.73	-206.58	6310.11	0.00	
	17300.00	90.00	359.79	11660.01	6407.73	-206.94	6410.10	0.00	
	17400.00	90.00	359.79	11660.01	6507.73	-207.30	6510.10	0.00	
	17500.00	90.00	359.79	11660.01	6607.73	-207.66	6610.09	0.00	
	17600.00 17700.00	90.00 90.00	359.79 359.79	11660.01 11660.01	6707.73 6807.73	-208.02 -208.39	6710.08 6810.08	0.00 0.00	
	17800.00	90.00 90.00	359.79	11660.01	6907.73	-208.39	6910.08 6910.07	0.00	
	17900.00	90.00	359.79	11660.01	7007.73	-208.75	7010.06	0.00	
	18000.00	90.00	359.79	11660.01	7107.73	-209.47	7110.06	0.00	
	18100.00	90.00	359.79	11660.01	7207.72	-209.83	7210.05	0.00	
	18200.00	90.00	359.79	11660.01	7307.72	-210.20	7310.05	0.00	
	18300.00	90.00	359.79	11660.01	7407.72	-210.56	7410.04	0.00	
	18400.00	90.00	359.79	11660.01	7507.72	-210.92	7510.03	0.00	
	18500.00	90.00	359.79	11660.01	7607.72	-211.28	7610.03	0.00	
	18600.00	90.00	359.79	11660.01	7707.72	-211.64	7710.02	0.00	
	18700.00	90.00	359.79	11660.01	7807.72	-212.00	7810.01	0.00	
	18800.00 18900.00	90.00 90.00	359.79 359.79	11660.01 11660.01	7907.72 8007.72	-212.37 -212.73	7910.01 8010.00	0.00 0.00	
	19000.00	90.00 90.00	359.79	11660.01	8107.72	-212.73	8109.99	0.00	
	19000.00	90.00	359.79	11660.01	8207.72	-213.09	8209.99	0.00	
	19200.00	90.00	359.79	11660.01	8307.72	-213.81	8309.98	0.00	
	19300.00	90.00	359.79	11660.01	8407.72	-214.18	8409.98	0.00	
	19400.00	90.00	359.79	11660.01	8507.72	-214.54	8509.97	0.00	

1		Well:	EXMOOR 1	0-34 FED CO	M 710H				Geodetic System:	US State Plane 1983
levon		County:							•	North American Datum 1927
		Wellbore:	Permit Plar	ı					•	Clarke 1866
		Design:	Permit Plar	1 #1					Zone:	3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Commont	
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
	19500.00 19600.00	90.00	359.79 359.79	11660.01 11660.01	8607.72 8707.72	-214.90	8609.96 8709.96	0.00 0.00		
	19800.00	90.00 90.00	359.79	11660.01	8807.71	-215.26 -215.62	8809.95	0.00		
	19800.00	90.00	359.79	11660.01	8907.71	-215.98	8909.94	0.00		
	19900.00	90.00	359.79	11660.01	9007.71	-216.35	9009.94	0.00		
	20000.00	90.00	359.79	11660.01	9107.71	-216.71	9109.93	0.00		
	20100.00 20200.00	90.00 90.00	359.79 359.79	11660.01 11660.01	9207.71 9307.71	-217.07 -217.43	9209.92 9309.92	0.00 0.00		
	20200.00	90.00	359.79	11660.01	9407.71	-217.43	9409.92	0.00		
	20400.00	90.00	359.79	11660.01	9507.71	-218.16	9509.91	0.00		
	20500.00	90.00	359.79	11660.01	9607.71	-218.52	9609.90	0.00		
	20600.00	90.00	359.79	11660.01	9707.71	-218.88	9709.89	0.00		
	20700.00 20800.00	90.00 90.00	359.79 359.79	11660.01 11660.01	9807.71 9907.71	-219.24 -219.60	9809.89 9909.88	0.00 0.00		
	20900.00	90.00	359.79	11660.01	10007.71	-219.00	10009.87	0.00		
	21000.00	90.00	359.79	11660.01	10107.71	-220.33	10109.87	0.00		
	21100.00	90.00	359.79	11660.01	10207.71	-220.69	10209.86	0.00		
	21200.00	90.00	359.79	11660.01		-221.05	10309.85	0.00		
	21300.00	90.00	359.79	11660.01		-221.41	10409.85	0.00		
	21400.00 21500.00	90.00 90.00	359.79 359.79	11660.01 11660.01		-221.77 -222.14	10509.84 10609.84	0.00 0.00		
	21600.00	90.00	359.79	11660.01		-222.50	10709.83	0.00		
	21700.00	90.00	359.79	11660.01	10807.70	-222.86	10809.82	0.00		
	21800.00	90.00	359.79	11660.01	10907.70	-223.22	10909.82	0.00		
	21900.00	90.00	359.79	11660.01		-223.58	11009.81	0.00		
	22000.00 22100.00	90.00 90.00	359.79 359.79	11660.01 11660.01		-223.94 -224.31	11109.80 11209.80	0.00 0.00		
	22200.00	90.00	359.79	11660.01		-224.67	11209.00	0.00		
	22300.00	90.00	359.79	11660.01		-225.03	11409.78	0.00		
	22400.00	90.00	359.79	11660.01		-225.39	11509.78	0.00		
	22500.00	90.00	359.79	11660.01		-225.75	11609.77	0.00		
	22600.00 22700.00	90.00 90.00	359.79 359.79	11660.01 11660.01		-226.11 -226.48	11709.76 11809.76	0.00 0.00		
	22800.00	90.00	359.79	11660.01		-226.84	11909.75	0.00		
	22900.00	90.00	359.79	11660.01	12007.69	-227.20	12009.75	0.00		
	23000.00	90.00	359.79	11660.01		-227.56	12109.74	0.00		
	23100.00	90.00	359.79	11660.01		-227.92	12209.73	0.00		
	23200.00 23300.00	90.00 90.00	359.79 359.79	11660.01 11660.01		-228.29 -228.65	12309.73 12409.72	0.00 0.00		
	23400.00	90.00	359.79	11660.01		-229.01	12509.71	0.00		
	23500.00	90.00	359.79	11660.01		-229.37	12609.71	0.00		
	23600.00	90.00	359.79	11660.01		-229.73	12709.70	0.00		
	23700.00	90.00	359.79	11660.02		-230.09	12809.69	0.00		
	23800.00 23900.00	90.00 90.00	359.79 359.79	11660.02 11660.02		-230.46 -230.82	12909.69 13009.68	0.00 0.00		
	23900.00	90.00 90.00	359.79	11660.02		-230.82	13009.68	0.00		
	24100.00	90.00	359.79	11660.02		-231.54	13209.67	0.00		
	24200.00	90.00	359.79	11660.02		-231.90	13309.66	0.00		
	24300.00	90.00	359.79	11660.02		-232.27	13409.66	0.00		
	24400.00	90.00	359.79	11660.02		-232.63	13509.65	0.00		
	24500.00 24600.00	90.00 90.00	359.79 359.79	11660.02 11660.02		-232.99 -233.35	13609.64 13709.64	0.00 0.00		
	24700.00	90.00	359.79	11660.02		-233.71	13809.63	0.00		
	24800.00	90.00	359.79	11660.02		-234.07	13909.62	0.00		
	24900.00	90.00	359.79	11660.02		-234.44	14009.62	0.00		
	25000.00	90.00	359.79	11660.02		-234.80	14109.61	0.00		
	25100.00 25200.00	90.00 90.00	359.79 359.79	11660.02 11660.02		-235.16 -235.52	14209.61 14309.60	0.00 0.00		
	25200.00	90.00	359.79	11660.02		-235.82	14309.60	0.00		
	25400.00	90.00	359.79	11660.02		-236.25	14509.59	0.00		
	25500.00	90.00	359.79	11660.02		-236.61	14609.58	0.00		
	25600.00	90.00	359.79	11660.02		-236.97	14709.57	0.00		
	25700.00	90.00	359.79	11660.02		-237.33	14809.57	0.00		
	25800.00 25900.00	90.00 90.00	359.79 359.79	11660.02 11660.02		-237.69 -238.05	14909.56 15009.55	0.00 0.00		
	26000.00	90.00	359.79	11660.02		-238.42	15109.55	0.00		
	26100.00	90.00	359.79	11660.02		-238.78	15209.54	0.00		
	26200.00	90.00	359.79	11660.02		-239.14	15309.54	0.00		
	26300.00	90.00	359.79	11660.02		-239.50	15409.53	0.00		
	26400.00	90.00	359.79	11660.02	15507.67	-239.86	15509.52	0.00		

	Well:	EXMOOR 1	0-34 FED CO	M 710H				Geodetic System: US State Plane 1983
	County:	Eddy						Datum: North American Datum 1927
	Wellbore:	Permit Plar	ı					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
26500.00	90.00	359.79	11660.02	15607.67	-240.23	15609.52	0.00	
26600.00	90.00	359.79	11660.02	15707.67	-240.59	15709.51	0.00	
26700.00	90.00	359.79	11660.02	15807.67	-240.95	15809.50	0.00	
26800.00	90.00	359.79	11660.02	15907.67	-241.31	15909.50	0.00	
26900.00	90.00	359.79	11660.02	16007.67	-241.67	16009.49	0.00	
27000.00	90.00	359.79	11660.02	16107.67	-242.03	16109.48	0.00	
27087.25	90.00	359.79	11660.02	16194.92	-242.35	16196.73	0.00	exit
27100.00	90.00	359.79	11660.02	16207.67	-242.40	16209.48	0.00	
27167.25	90.00	359.79	11660.00	16274.92	-242.56	16276.72	0.00	BHL



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

# **Dimensions (Nominal)**

Outside Diameter Wall Inside Diameter	10.750 0.400 9.950	in. in. in.
Drift	9.875	in.
Weight, T&C	45.500	lbs/ft
Weight, PE	44.260	lbs/ft
Internal Yield Pressure at Minimum Yield		
Collapse	2090	psi
Internal Yields Pressure		
PE	3580	psi
STC	3580	psi
ВТС	3580	psi
Yield Strength, Pipe Body	715	1000 lbs
Joint Strength, STC		
STC	493	1000 lbs
ВТС	796	1000 lbs

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

#### Received by OCD: 3/23/2023 9:41:12 AM

Page 29 of 30 15-25-31-A Sundry ID 2720764 Exmoor 10-34 Fed Com 710H Eddy NM0503 DEVON ENERGY PRODUCTION COMPANY LP 13-22fa 3-21-2023 LV.xlsm

#### Exmoor 10-34 Fed Com 710H

10 3/4	st	ırface csg in a	14 3/4	inch hole.		Design	Factors			Surface	e	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50		j 55	btc	17.87	5.08	0.59	880	9	0.99	9.59	40,040
"B"			,	btc				0				0
	w/8.4	#/g mud, 30min Sfc Csg Test	psig: 1.500	Tail Cmt	does not	circ to sfc.	Totals:	880				40.040
omparison o		Minimum Required Ceme										- ,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
14 3/4	0.5563	534	769	490	57	9.00	3613	5M				1.50
urst Frac Grac	dient(s) for Segr	ment(s)  A, B = , b     All > 0	D.70, OK.									
									a a			·· <b>—</b> ·—·
8 5/8		sing inside the	10 3/4	_		Design			_	Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	vam sprint fj	2.09	0.66	1.12	11,100	1	1.88	1.11	355,20
"B"								0				0
	w/8.4	#/g mud, 30min Sfc Csg Test					Totals:	11,100				355,20
				nded to achieve a top of	0	ft from su		880				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
9 7/8	0.1261	505	727	1407	-48	10.50	3795	5M				0.61
			6580				sum of sx	Σ CuFt				Σ%exces
D V Tool(s):												
by stage % :	it yld > 1.35	28	22				1214	1748				24
by stage % : lass 'C' tail cm Tail cmt			22			Docian Fa	1214		a a	Drod 1		
by stage % : lass 'C' tail cm Tail cmt 5 1/2	cas	sing inside the		Coupling		Design Fa	1214	1748	Per	Prod 1		
by stage % : lass 'C' tail cm Tail cmt 5 1/2 Segment	cas #/ft		22 8 5/8	Coupling	Body	Collapse	1214 ctors Burst	1748	B@s	a-B	a-C	Weigh
Tail cmt 5 1/2 Segment "A"	cas	sing inside the	22	Coupling btc	<b>Body</b> 2.75		1214	1748 Length 27,167	<b>B@s</b> 2			<b>Weigh</b> 461,83
by stage % : lass 'C' tail cm Tail cmt 5 1/2 Segment	cas #/ft 17.00	sing inside the Grade	22 8 5/8 p 110			Collapse	1214 <u>ctors</u> Burst 1.67	1748 Length 27,167 0		a-B	a-C	Weigh 461,83 0
by stage % : Class 'C' tail cm Tail cmt 5 1/2 Segment "A"	cas #/ft 17.00	sing inside the Grade #/g mud, 30min Sfc Csg Test	22 8 5/8 p 110 psig: 2,565	btc	2.75	Collapse 1.18	1214 ctors Burst 1.67 Totals:	1748 Length 27,167 0 27,167		a-B	a-C	Weigh 461,83 0 461,83
by stage % : class 'C' tail cm Tail cmt 51/2 Segment "A" "B"	cas #/ft 17.00 w/8.4	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement	22 8 5/8 p 110 psig: 2,565 volume(s) are inter	btc nded to achieve a top of	2.75	Collapse 1.18 ft from su	1214 ctors Burst 1.67 Totals: Inface or a	1748 Length 27,167 0 27,167 200		a-B	a-C	Weigh 461,833 0 461,839 overlap.
by stage % : Class 'C' tail cm Tail cmt 51/2 Segment "A" "B" Hole	cas #/ft 17.00 w/8.4 Annular	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage	btc nded to achieve a top of Min	2.75 10900 1 Stage	Collapse 1.18 ft from su Drilling	1214 ctors Burst 1.67 Totals: urface or a Calc	1748 Length 27,167 0 27,167 200 Req'd		a-B	a-C	Weigh 461,839 0 461,839 overlap. Min Dis
by stage % : Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" Hole Size	cas #/ft 17.00 w/8.4 Annular Volume	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt	btc nded to achieve a top of Min Cu Ft	2.75 10900 1 Stage % Excess	Collapse 1.18 ft from su Drilling Mud Wt	1214 ctors Burst 1.67 Totals: Inface or a	1748 Length 27,167 0 27,167 200		a-B	a-C	Weight 461,839 0 461,839 overlap. Min Dist Hole-Cpl
by stage % : Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" Hole	cas #/ft 17.00 w/8.4 Annular Volume 0.1733	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage	btc nded to achieve a top of Min	2.75 10900 1 Stage	Collapse 1.18 ft from su Drilling	1214 ctors Burst 1.67 Totals: urface or a Calc	1748 Length 27,167 0 27,167 200 Req'd		a-B	a-C	Weight 461,839 0 461,839
by stage % : Class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8	cas #/ft 17.00 w/8.4 Annular Volume 0.1733	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt	btc nded to achieve a top of Min Cu Ft	2.75 10900 1 Stage % Excess	Collapse 1.18 ft from su Drilling Mud Wt	1214 ctors Burst 1.67 Totals: urface or a Calc	1748 Length 27,167 0 27,167 200 Req'd		a-B	a-C	Weigh 461,833 0 461,839 overlap. Min Dis Hole-Cpl
by stage % : Class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm	cas #/ft 17.00 w/8.4 Annular Volume 0.1733	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt	btc nded to achieve a top of Min Cu Ft	2.75 10900 1 Stage % Excess	Collapse 1.18 ft from su Drilling Mud Wt	1214 ctors Burst 1.67 Totals: urface or a Calc MASP	1748 Length 27,167 0 27,167 200 Req'd	2	a-B	<b>a-C</b> 1.97	Weigh 461,833 0 461,839 overlap. Min Dis Hole-Cpl
by stage % : Class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment	cas #/ft 17.00 w/8.4 Annular Volume 0.1733	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438	btc nded to achieve a top of Min Cu Ft	2.75 10900 1 Stage % Excess	Collapse 1.18 ft from su Drilling Mud Wt 10.50	1214 ctors Burst 1.67 Totals: urface or a Calc MASP	1748 Length 27,167 0 27,167 200 Req'd	2	a-B 2.80	<b>a-C</b> 1.97	Weigh 461,833 0 461,839 overlap. Min Dis Hole-Cpl
by stage % : class 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 class 'C' tail cm #N/A 0	cas #/ft 17.00 w/8.4 Annular Volume 0.1733 it yld > 1.35	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 2239	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438	btc nded to achieve a top of Min Cu Ft 2819	2.75 10900 1 Stage % Excess 22	Collapse 1.18 ft from su Drilling Mud Wt 10.50 Design	1214 ctors Burst 1.67 Totals: Inface or a Calc MASP Factors	1748 Length 27,167 0 27,167 200 Req'd BOPE	2	a-B 2.80	a-C 1.97 sing>	Weigh 461,83 0 461,83 overlap. Min Dis Hole-Cpi 0.91
y stage % : lass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cm #N/A 0 Segment	cas #/ft 17.00 w/8.4 Annular Volume 0.1733 it yld > 1.35	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 2239	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438	btc nded to achieve a top of Min Cu Ft 2819 Coupling	2.75 10900 1 Stage % Excess 22	Collapse 1.18 ft from su Drilling Mud Wt 10.50 Design	1214 ctors Burst 1.67 Totals: Inface or a Calc MASP Factors	1748 Length 27,167 0 27,167 200 Req'd BOPE	2	a-B 2.80	a-C 1.97 sing>	Weigh 461,83 0 461,83 overlap. Min Dis Hole-Cpi 0.91 Weigh
by stage % : Ilass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 Ilass 'C' tail cm #N/A 0 Segment "A"	cas #/ft 17.00 w/8.4 Annular Volume 0.1733 it yld > 1.35 #/ft	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 2239	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438 5 1/2	btc nded to achieve a top of Min Cu Ft 2819 Coupling 0.00	2.75 10900 1 Stage % Excess 22	Collapse 1.18 ft from su Drilling Mud Wt 10.50 Design	1214 ctors Burst 1.67 Totals: Inface or a Calc MASP Factors	1748 Length 27,167 0 27,167 200 Req'd BOPE Length 0	2	a-B 2.80	a-C 1.97 sing>	Weigh 461,83 0 461,83 overlap. Min Dis Hole-Cp 0.91
by stage % : Ilass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 Ilass 'C' tail cm #N/A 0 Segment "A"	cas #/ft 17.00 w/8.4 Annular Volume 0.1733 it yld > 1.35 #/ft	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 2239 Grade #/g mud, 30min Sfc Csg Test	22 <b>8 5/8</b> p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438 <b>5 1/2</b> psig:	btc nded to achieve a top of Min Cu Ft 2819 Coupling 0.00	2.75 10900 1 Stage % Excess 22	Collapse 1.18 ft from su Drilling Mud Wt 10.50 Design	1214 <u>ctors</u> Burst 1.67 Totals: urface or a Calc MASP Factors Burst Totals:	1748 Length 27,167 0 27,167 200 Req'd BOPE Length 0 0	2	a-B 2.80	a-C 1.97 sing>	Weigh 461,83 0 461,83 overlap. Min Dis Hole-Cp 0.91 0.91
by stage % : Class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A"	cas #/ft 17.00 w/8.4 Annular Volume 0.1733 it yld > 1.35 #/ft	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 2239 Grade #/g mud, 30min Sfc Csg Test	22 <b>8 5/8</b> p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438 <b>5 1/2</b> psig:	btc nded to achieve a top of Min Cu Ft 2819 Coupling 0.00 0.00	2.75 10900 1 Stage % Excess 22 #N/A	Collapse 1.18 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse	1214 <u>ctors</u> Burst 1.67 Totals: urface or a Calc MASP Factors Burst Totals:	1748 Length 27,167 0 27,167 200 Req'd BOPE Length 0 0 0	2	a-B 2.80	a-C 1.97 sing>	Weigh 461,83 0 461,83 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 0 0 0 0 0
by stage % : Class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B"	cas #/ft 17.00 w/8.4 Annular Volume 0.1733 ut yld > 1.35 #/ft w/8.4	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 2239 Grade #/g mud, 30min Sfc Csg Test Cmt vol c: 1 Stage Cmt Sx	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438 5 1/2 psig: alc below includes	btc inded to achieve a top of Min Cu Ft 2819 Coupling 0.00 0.00 this csg, TOC intended Min Cu Ft	2.75 10900 1 Stage % Excess 22 #N/A 1 Stage % Excess	Collapse 1.18 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su	1214 ctors Burst 1.67 Totals: urface or a Calc MASP Factors Burst Totals: urface or a	1748 Length 27,167 00 27,167 200 Req'd BOPE Length 0 0 0 0 #N/A	2	a-B 2.80	a-C 1.97 sing>	Weigh 461,83 0 461,83 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0
y stage % : lass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cm #N/A 0 Segment "A" "B" Hole	ccas #/ft 17.00 w/8.4 Annular Volume 0.1733 tt yld > 1.35 #/ft w/8.4 Annular	sing inside the Grade #/g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 2239 Grade #/g mud, 30min Sfc Csg Test Cmt vol c: 1 Stage	22 8 5/8 p 110 psig: 2,565 volume(s) are inter 1 Stage CuFt Cmt 3438 5 1/2 psig: alc below includes 1 Stage	btc ided to achieve a top of Min Cu Ft 2819 Coupling 0.00 0.00 0.00 this csg, TOC intended Min	2.75 10900 1 Stage % Excess 22 #N/A 1 Stage	Collapse 1.18 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su Drilling	1214 1214 ctors Burst 1.67 Totals: urface or a Calc MASP Factors Burst Totals: urface or a Calc	1748 Length 27,167 0 27,167 200 Req'd BOPE Length 0 0 0 0 #N/A Req'd	2	a-B 2.80	a-C 1.97 sing>	Weigh 461,83 0 461,83 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 0 overlap. Min Dis

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

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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	200117
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

CONDITIONS	5	
Created By		Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	3/23/2023

CONDITIONS

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Action 200117