#### Rec'd 06/12/2020 - NMOCD

Form 3160-3 (June 2015)		OMB No	APPROVED . 1004-0137 nuary 31, 2018		
UNITED STATES					
DEPARTMENT OF THE INT BUREAU OF LAND MANAG	NMNM103603	5. Lease Serial No. NMNM103603			
APPLICATION FOR PERMIT TO DRI	6. If Indian, Allotee	or Tribe Name			
1a. Type of work:   Image: Constraint of the second seco	NTER	7. If Unit or CA Agre	eement, Name and No.		
1b. Type of Well:     ✓       ✓     Oil Well       Gas Well     Other					
	_	8. Lease Name and V			
1c. Type of Completion:   Hydraulic Fracturing       Single	e Zone Multiple Zone	HOT POTATO 26-2	23 FED		
		22211			
2. Name of Operator		333H 9. API Well No.			
DEVON ENERGY PRODUCTION COMPANY LP			3001547176		
	<ul><li>Phone No. <i>(include area code)</i></li><li>00) 583-3866</li></ul>	10. Field and Pool, o PURPLE SAGE/PL	r Exploratory IRPLE SAGE WOLFC#		
4. Location of Well ( <i>Report location clearly and in accordance with</i>	any State requirements.*)	11. Sec., T. R. M. or	Blk. and Survey or Area		
At surface SWSE / 325 FSL / 1499 FEL / LAT 32.269493	/ LONG -103.951615	SEC 26/T23S/R29E	E/NMP		
At proposed prod. zone NENE / 20 FNL / 1254 FEL / LAT 3	2.297761 / LONG -103.950874				
14. Distance in miles and direction from nearest town or post office*		12. County or Parish EDDY	13. State NM		
location to nearest 325 feet		7. Spacing Unit dedicated to th 40.0	is well		
18. Distance from proposed location*	9. Proposed Depth 20	), BLM/BIA Bond No. in file			
to nearest well, drilling, completed.		ED: NMB000801			
	2. Approximate date work will sta 1/01/2020	rt* 23. Estimated duration 45 days	on		
	24. Attachments				
The following, completed in accordance with the requirements of Or (as applicable)	nshore Oil and Gas Order No. 1, a	nd the Hydraulic Fracturing ru	lle per 43 CFR 3162.3-3		
1. Well plat certified by a registered surveyor.		perations unless covered by an	existing bond on file (see		
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System I</li> </ol>	Item 20 above). ands, the 5. Operator certification				
SUPO must be filed with the appropriate Forest Service Office).		fic information and/or plans as	may be requested by the		
25. Signature	Name (Printed/Typed)		Date		
(Electronic Submission) Title	ERIN WORKMAN / Ph: (80	00) 583-3866	11/06/2019		
Regulatory Compliance Professional					
Approved by (Signature)	Name (Printed/Typed)		Date		
(Electronic Submission)	Christopher Walls / Ph: (57	5) 234-2234	06/09/2020		
Title Petroleum Engineer	Office Carlsbad Field Office				
Application approval does not warrant or certify that the applicant he		e rights in the subject lease wh	nich would entitle the		
applicant to conduct operations thereon.					
Conditions of approval, if any, are attached.	· · · · · · · · · · · · · · · · · · ·	1 1 10 10 10 10	1		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make of the United States any false, fictitious or fraudulent statements or r			ny department or agency		



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 Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

## State of New Mexico Energy, Minerals & Natural Resources Department

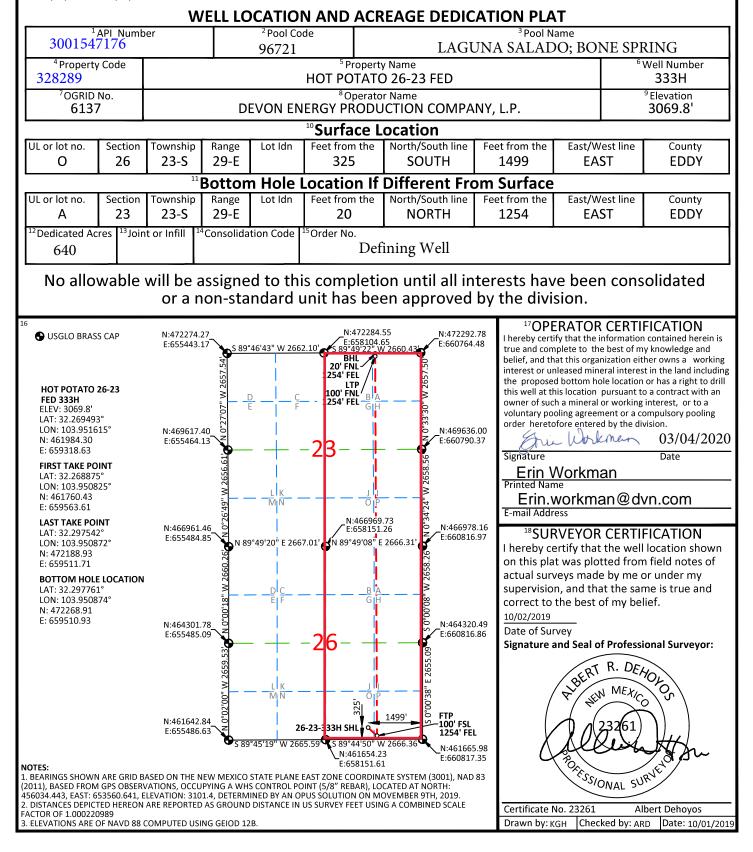
**OIL CONSERVATION DIVISION** 

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT



Intent 🔀 As Drilled		
API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: HOT POTATO 26-23 FED	Well Number 333H

#### Kick Off Point (KOP)

UL	Section 26	Township 2 <b>3</b> S	Range 29E	Lot	Feet 50	From N/S SOUTH	Feet 1254	From E/W EAST	County EDDY
Latitu	Latitude				Longitude		NAD		
	32.268734			-103.950	826			83	

#### First Take Point (FTP)

UL P	Section 26	Township 23-S	Range 29-E		From N/S SOUTH	Feet 1254	 County EDDY
Latitu 32.2	<sup>de</sup> 68875°			Longitude -103.95082	25°		NAD 83

#### Last Take Point (LTP)

UL A	Section 23	Township 23-S	Range 29-E	Lot		From N/S NORTH	Feet 1254	From E/W EAST	County EDDY
Latitud 32.2	<sup>de</sup> 97542°				Longitude -103.9508	72°			NAD 83

YES

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

Is this well an infill well?

NO

If infill is yes 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

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

#### GAS CAPTURE PLAN

Date: <u>06/17/19</u>

x Original

Devon & OGRID No.: <u>Devon Energy Prod Co., LP (6137)</u>

Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Devon to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared/ Vented	Comments
Hot Potato 26-23 Fed 333H		Sec. 26, T23S, R29E	325 FSL, 1499 FEL			Hot Potato 26 CTB 2
Hot Potato 26-23 Fed 622H		Sec. 26, T23S, R29E	325 FSL, 1559 FEL			Hot Potato 26 CTB 2
Hot Potato 26-23 Fed 623H		Sec. 26, T23S, R29E	325 FSL, 1469 FEL			Hot Potato 26 CTB 2
Hot Potato 26-23 Fed 712H		Sec. 26, T23S, R29E	325 FSL, 1529 FEL			Hot Potato 26 CTB 2

#### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if DCP system is in place. The gas produced from production facility is dedicated to <u>DCP</u> and will be connected to <u>DCP</u> low/high pressure gathering system located in <u>Eddy</u> County, New Mexico. It will require <u>10400'</u> of pipeline to connect the facility to low/high pressure gathering system. <u>Devon</u> provides (periodically) to <u>DCP</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Devon</u> and DCP have periodic conference calls to discuss changes to the drilling and completion schedules. Gas from these wells will be processed at <u>DCP</u> Processing Plant located NENW in Sec., Twn. <u>S</u>, Rng. (\*See below), Eddy, County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures. (\*DCP Supersystem Plants – Artesia Sec. 7, 18S, 28E, Eunice Sec. 5, T21S, R36E, Linam Sec. 6, T19S, 37E, & Zia II Sec. 19, T19S, 32E)

#### **Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>DCP</u> system at that time. Based on current information, it is <u>Devon's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

#### **Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
  - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

#### 1. Geologic Formations

TVD of target	10206	Pilot hole depth	N/A
MD at TD:	20531	Deepest expected fresh water	

Basin

Dusin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	171		
Salt	526		
Base of Salt	2946		
Delaware	3186		
Bone Spring 1st	7936		
Bone Spring 2nd	8836		
Bone Spring 3rd	9896		
Wolfcamp	10216		

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

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	48.0	H40	STC	0	196 MD	0	196 TVD
12 1/4	10 3/4	45.5	HCL80	BTC SCC	0	2971 MD	0	2971 TVD
9 7/8	8 5/8	32.0	P110	TLW	0	8861 MD	0	8861 TVD
7 7/8	5 1/2	17.0	P110	BTC	0	20531 MD	0	10206 TVD

#### 2. Casing Program (Primary Design)

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

• The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	180	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	185	Surf	9	3.27	Lead: Class C Cement + additives
Int	101	500' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1	372	Surf	9	3.27	Lead: Class C Cement + additives
Int I	67	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	185	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	101	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	562	0	9.0	3.3	Lead: Class H /C + additives
Froduction	1441	9644	13.2	1.4	Tail: Class H / C + additives

3. Cementing Program (Primary Design)

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

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

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Т	уре	~	Tested to:											
			Ar	nular	Х	50% of rated working pressure											
Int	13-5/8"	5M		nd Ram	Х												
IIIt	13 5/0	5101	Pip	e Ram		5M											
			Dout	ole Ram	Х	5101											
			Other*			7											
	13-5/8"		Annu	lar (5M)	Х	50% of rated working pressure											
Int 1		5M	Blin	nd Ram	Х												
IIIt I		15-5/6 514	13-5/8 5101	15-5/6 510	15-5/8 5IM	13-3/8 310	13-3/8 31/1	15-5/8 5IVI	P	3101	13-5/8" 5M	Pipe Ram		5M			
										Dout	ole Ram	Х	JIVI				
			Other*			7											
			Annu	lar (5M)	X	50% of rated working pressure											
Production	13-5/8" 5M	514	Blin	nd Ram	Х												
Production		13-3/8 314	15-5/8 514	15-5/8 514	15-5/6 5101	15-5/8 5141	15-5/8 5IVI	13-3/6 3111	15-5/6 514	15-5/6 51WI	13-5/8 5IVI	13-3/8 JM	/0 3111	Pip	e Ram		5M
												Dout	ole Ram	Х	JIVI		
			Other*			]											
A variance is requested fo	r the use of a	diverter or	the surface	e casing. See a	attached for	schematic.											
A variance is requested to				-													

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

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

Section	Туре	Weight (ppg)
Surface	WBM	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Intermediate 1	WBM	8.5-9
Production	OBM	8.5-9

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
what will be used to monitor the loss of gain of fluid?	F V 1/F ason/ V Isual Monitoring

#### 6. Logging and Testing Procedures

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

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

#### 7. Drilling Conditions

Condition	Specfiy what type and where?	
BH pressure at deepest TVD	4147	
Abnormal temperature	No	

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

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

#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

<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

Surface

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

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

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

Casing Assumptions and Load Cases

Intermediate

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

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

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

Production

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

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

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

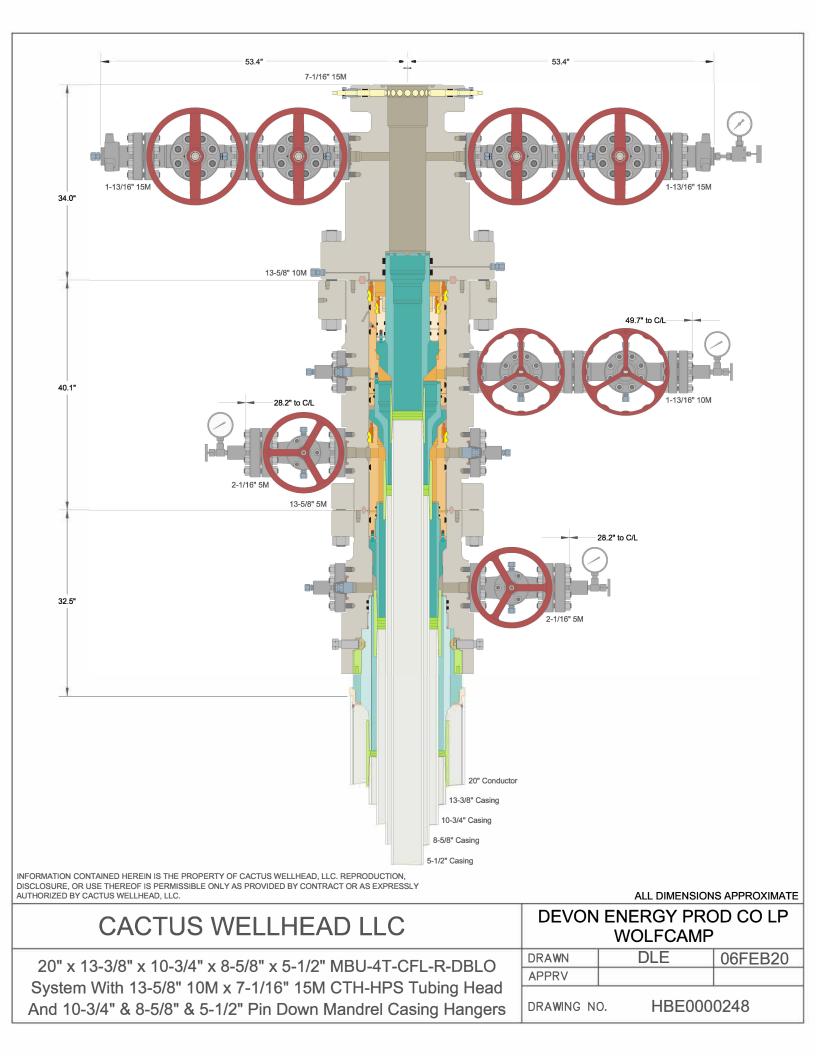
Casing Assumptions and Load Cases

Intermediate

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

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

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



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. This assembly will only be tested when installed on the 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.

- 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 5M will already be installed on the wellhead.

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 5,000 psi WP.

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

## **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.

## **WCDSC Permian NM**

Eddy County (NAD 83 NM Eastern) Sec 26-T23S-R29E Hot Potato 26-23 Fed 333H

Wellbore #1

Plan: Permit Plan 1

## **Standard Planning Report - Geographic**

21 October, 2019

#### Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	WCD Eddy Sec 2 Hot F Wellb	EDM r5000.141_Prod US WCDSC Permian NM Eddy County (NAD 83 NM Eastern) Sec 26-T23S-R29E Hot Potato 26-23 Fed Com 333H Wellbore #1 Permit Plan 1				Local Co-ordinate Reference:Well Hot Potato 26-23 Fed Com 333HTVD Reference:RKB @ 3094.80ftMD Reference:RKB @ 3094.80ftNorth Reference:GridSurvey Calculation Method:Minimum Curvature				
Project	Eddy	County (NAD 83	3 NM Eastern)							
Map System: Geo Datum: Map Zone:	North A	te Plane 1983 merican Datum exico Eastern Zo			System Dat	um:	M	ean Sea Level		
Site	Sec 2	6-T23S-R29E								
Site Position: From: Position Uncert	Ma ainty:	•	Northi Eastin 0.00 ft Slot R	g:		,642.84 usft ,486.63 usft 13-3/16 "	Latitude: Longitude: Grid Converg	jence:		32.268591 -103.964017 0.20 °
Well	Hot Po	otato 26-23 Fed	Com 333H							
Well Position Position Uncert	+N/-S +E/-W ainty		0.00 ft Ea	orthing: sting: ellhead Eleva	tion:	461,984.30 659,318.63	usft Lor	itude: ngitude: ound Level:		32.269493 -103.951615 3,069.80 ft
Wellbore	Wellb	ore #1								
Magnetics	м	odel Name	Sample	e Date	Declina (°)	tion		Angle °)		Strength nT)
		IGRF2015	1	0/21/2019		6.88		60.01	47,6	86.58415567
Design	Permi	t Plan 1								
Audit Notes:										
Version:			Phase	e: l	PROTOTYPE	Tie	On Depth:		0.00	
Vertical Section	1:	ſ	Depth From (T\ (ft)	/D)	+N/-S (ft)		/-W ft)	Di	rection (°)	
			0.00		0.00		00		1.07	
Plan Survey To Depth Fro (ft) 1	om Dep (1	Date th To ft) Survey 529.98 Permit	10/21/2019 • <b>(Wellbore)</b> Plan 1 (Wellbor	e #1)	Tool Name MWD+HDGM OWSG MWD		Remarks			
Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00 3,000.00 3,351.87 9,059.55 9,294.13	0.00 0.00 3.52 3.52 0.00	0.00 0.00 138.30 138.30 0.01	0.00 3,000.00 3,351.65 9,048.57 9,283.00	0.00 0.00 -8.06 -269.62 -275.00	0.00 0.00 7.19 240.21 245.00	0.00 0.00 1.00 0.00 1.50	0.00 0.00 1.00 0.00 -1.50	0.00 0.00 0.00 0.00 0.00	0.00 0.00 138.30 0.00 180.00	
9,644.17 10,544.17 20,530.97	0.00 90.00 90.00	0.01 359.71 359.71	9,633.04 10,206.00 10,206.00	-275.00 297.95 10,284.63	245.00 242.14 192.30	0.00 10.00 0.00	0.00 10.00 0.00	0.00 0.00 0.00		PBHL - Hot Potato 26 PBHL - Hot Potato 26

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Hot Potato 26-23 Fed Com 333H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3094.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3094.80ft
Site:	Sec 26-T23S-R29E	North Reference:	Grid
Well:	Hot Potato 26-23 Fed Com 333H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

(ft)         (f)         (ft)         (ft)         (ft)         (usft)         (usft)         Latitude         Longitude           0.00         0.00         0.00         0.00         0.00         0.00         461,984.30         659,318.63         32.269493         -103.951           200.00         0.00         0.00         200.00         0.00         461,984.30         653,318.63         32.269493         -103.951           300.00         0.00         0.00         461,984.30         653,318.63         32.269493         -103.951           400.00         0.00         0.00         461,984.30         653,318.63         32.269493         -103.951           500.00         0.00         600.00         0.00         461,984.30         653,318.63         32.269493         -103.951           700.00         0.00         0.00         600.00         0.00         461,984.30         653,318.63         32.269493         -103.951           1.000.00         0.00         0.00         0.00         461,984.30         653,318.63         32.269493         -103.951           1.000.00         0.00         1.000.00         0.00         461,984.30         653,318.63         32.269493         -103.951	
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200.00         0.00         200.00         0.00         461.984.30         659.318.63         32.289483         -103.951           300.00         0.00         300.00         0.00         400.00         103.951         400.00         103.951           400.00         0.00         500.00         0.00         461.984.30         659.318.63         32.289483         -103.951           600.00         0.00         500.00         0.00         461.984.30         659.318.63         32.289483         -103.951           700.00         0.00         700.00         0.00         461.984.30         659.318.63         32.289483         -103.951           900.00         0.00         800.00         0.00         461.984.30         659.318.63         32.289493         -103.951           1,000.00         0.00         1,000.00         0.00         461.984.30         659.318.63         32.289493         -103.951           1,000.00         0.00         1,000.00         0.00         461.984.30         659.318.63         32.289493         -103.951           1,000.00         0.00         1,000.00         0.00         461.984.30         659.318.63         32.289493         -103.951           1,200.00         0.00	
300.00         0.00         300.00         0.00         461.984.30         659.318.63         32.269483         -103.951           400.00         0.00         0.00         400.00         0.00         461.984.30         659.318.63         32.269483         -103.951           600.00         0.00         600.00         0.00         461.984.30         659.318.63         32.269483         -103.951           700.00         0.00         0.00         600.00         0.00         461.984.30         659.318.63         32.269483         -103.951           800.00         0.00         800.00         0.00         461.984.30         659.318.63         32.269483         -103.951           1,000.00         0.00         900.00         0.00         461.984.30         659.318.63         32.269483         -103.951           1,000.00         0.00         1,000.00         0.00         461.984.30         659.318.63         32.269483         -103.951           1,200.00         0.00         1,200.00         0.00         461.984.30         659.318.63         32.269483         -103.951           1,200.00         0.00         1,200.00         0.00         461.984.30         659.318.63         32.269483         -103.951 <t< td=""><td></td></t<>	
500.00         0.00         500.00         0.00         461.984.30         659.318.63         32.269493         -103.951           600.00         0.00         0.00         700.00         0.00         461.984.30         659.318.63         32.269493         -103.951           700.00         0.00         700.00         0.00         461.984.30         659.318.63         32.269493         -103.951           900.00         0.00         0.00         461.984.30         659.318.63         32.269493         -103.951           1,000.00         0.00         1,000.00         0.00         461.984.30         659.318.63         32.269493         -103.951           1,200.00         0.00         1,000.00         0.00         461.984.30         659.318.63         32.269493         -103.951           1,200.00         0.00         1,200.00         0.00         0.00         461.984.30         659.318.63         32.269493         -103.951           1,200.00         0.00         1,200.00         0.00         0.00         461.984.30         659.318.63         32.269493         -103.951           1,400.00         0.00         1,600.00         0.00         0.00         461.984.30         659.318.63         32.269493         -103	
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$ \begin{bmatrix} 2,300.00 & 0.00 & 0.00 & 2,300.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 2,400.00 & 0.00 & 0.00 & 2,400.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 2,500.00 & 0.00 & 0.00 & 2,500.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 2,600.00 & 0.00 & 0.00 & 2,600.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 2,700.00 & 0.00 & 0.00 & 2,700.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 2,800.00 & 0.00 & 0.00 & 2,700.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 2,800.00 & 0.00 & 0.00 & 2,800.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 3,000.00 & 0.00 & 0.00 & 2,800.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 3,000.00 & 0.00 & 0.00 & 3,000.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 3,000.00 & 0.00 & 0.00 & 3,000.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 3,000.00 & 0.00 & 0.00 & 3,000.00 & 0.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 3,000.00 & 0.00 & 0.00 & 3,000.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 3,000.00 & 0.00 & 0.00 & 3,000.00 & 0.00 & 461,984.30 & 659,318.63 & 32.269493 & -103.9516 \\ 3,000.00 & 3.00 & 138.30 & 3,99.99 & -0.65 & 0.58 & 461,983.65 & 659,319.22 & 32.269491 & -103.9516 \\ 3,300.00 & 3.00 & 138.30 & 3,299.86 & -5.86 & 5.22 & 461,978.44 & 659,323.86 & 32.269477 & -103.9516 \\ 3,300.00 & 3.00 & 138.30 & 3,399.69 & -10.27 & 9.15 & 461,976.24 & 659,325.82 & 32.269471 & -103.9516 \\ 3,500.00 & 3.52 & 138.30 & 3,399.59 & -10.27 & 9.15 & 461,964.56 & 659,331.87 & 32.269464 & -103.9516 \\ 3,600.00 & 3.52 & 138.30 & 3,599.31 & -19.44 & 17.32 & 461,964.86 & 659,335.95 & 32.269427 & -103.9516 \\ 3,600.00 & 3.52 & 138.30 & 3,599.31 & -19.44 & 17.32 & 461,960.28 & 659,340.03 & 32.269427 & -103.9516 \\ 3,600.00 & 3.52 & 138.30 & 3,599.31 & -19.44 & 17.32 & 461,960.28 & 659,340.03 & 32.269427 & -103.9516 \\ 3,800.00 & 3.52 & 138.30 & $	51615
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2,800.00       0.00       0.00       2,800.00       0.00       461,984.30       659,318.63       32.269493       -103.9516         2,900.00       0.00       0.00       2,900.00       0.00       0.00       461,984.30       659,318.63       32.269493       -103.9516         3,000.00       0.00       0.00       3,000.00       0.00       461,984.30       659,318.63       32.269493       -103.9516         3,000.00       0.00       0.00       0.00       461,984.30       659,318.63       32.269493       -103.9516         3,000.00       1.00       138.30       3,099.99       -0.65       0.58       461,983.65       659,319.22       32.269491       -103.9516         3,200.00       2.00       138.30       3,199.96       -2.61       2.32       461,981.69       659,320.96       32.269486       -103.9516         3,300.00       3.00       138.30       3,299.86       -5.86       5.22       461,976.24       659,323.86       32.269477       -103.9516         3,351.87       3.52       138.30       3,399.69       -10.27       9.15       461,974.03       659,327.78       32.269464       -103.9516         3,500.00       3.52       138.30       3,499.50       -14.	51615
2,900.00       0.00       0.00       2,900.00       0.00       461,984.30       659,318.63       32.269493       -103.9516         3,000.00       0.00       0.00       3,000.00       0.00       461,984.30       659,318.63       32.269493       -103.9516         3,100.00       1.00       138.30       3,099.99       -0.65       0.58       461,983.65       659,319.22       32.269491       -103.9516         3,200.00       2.00       138.30       3,199.96       -2.61       2.32       461,981.69       659,320.96       32.269486       -103.9516         3,300.00       3.00       138.30       3,299.86       -5.86       5.22       461,978.44       659,323.86       32.269477       -103.9516         3,351.87       3.52       138.30       3,351.65       -8.06       7.19       461,976.24       659,325.82       32.269471       -103.9516         3,400.00       3.52       138.30       3,399.69       -10.27       9.15       461,974.03       659,327.78       32.269464       -103.9516         3,500.00       3.52       138.30       3,499.50       -14.85       13.23       461,969.45       659,331.87       32.269452       -103.9516         3,600.00       3.52 <t< td=""><td></td></t<>	
3,000.00         0.00         0.00         3,000.00         0.00         461,984.30         659,318.63         32.269493         -103.9516           3,100.00         1.00         138.30         3,099.99         -0.65         0.58         461,983.65         659,319.22         32.269491         -103.9516           3,200.00         2.00         138.30         3,199.96         -2.61         2.32         461,981.69         659,320.96         32.269486         -103.9516           3,300.00         3.00         138.30         3,299.86         -5.86         5.22         461,978.44         659,323.86         32.269477         -103.9516           3,351.87         3.52         138.30         3,351.65         -8.06         7.19         461,976.24         659,327.78         32.269471         -103.9516           3,400.00         3.52         138.30         3,399.69         -10.27         9.15         461,974.03         659,327.78         32.269464         -103.9516           3,500.00         3.52         138.30         3,499.50         -14.85         13.23         461,969.45         659,331.87         32.269452         -103.9516           3,600.00         3.52         138.30         3,599.31         -19.44         17.32	
3,100.00         1.00         138.30         3,099.99         -0.65         0.58         461,983.65         659,319.22         32.269491         -103.9516           3,200.00         2.00         138.30         3,199.96         -2.61         2.32         461,981.69         659,320.96         32.269486         -103.9516           3,300.00         3.00         138.30         3,299.86         -5.86         5.22         461,978.44         659,323.86         32.269477         -103.9516           3,351.87         3.52         138.30         3,351.65         -8.06         7.19         461,976.24         659,325.82         32.269471         -103.9516           3,400.00         3.52         138.30         3,399.69         -10.27         9.15         461,974.03         659,327.78         32.269464         -103.9516           3,500.00         3.52         138.30         3,499.50         -14.85         13.23         461,969.45         659,331.87         32.269452         -103.9516           3,600.00         3.52         138.30         3,599.31         -19.44         17.32         461,960.486         659,335.95         32.269439         -103.9516           3,700.00         3.52         138.30         3,699.12         -24.02	
3,200.00         2.00         138.30         3,199.96         -2.61         2.32         461,981.69         659,320.96         32.269486         -103.9516           3,300.00         3.00         138.30         3,299.86         -5.86         5.22         461,978.44         659,323.86         32.269477         -103.9516           3,351.87         3.52         138.30         3,351.65         -8.06         7.19         461,976.24         659,325.82         32.269471         -103.9516           3,400.00         3.52         138.30         3,399.69         -10.27         9.15         461,974.03         659,327.78         32.269464         -103.9516           3,500.00         3.52         138.30         3,499.50         -14.85         13.23         461,969.45         659,331.87         32.269452         -103.9516           3,600.00         3.52         138.30         3,599.31         -19.44         17.32         461,969.45         659,331.87         32.269452         -103.9516           3,700.00         3.52         138.30         3,699.12         -24.02         21.40         461,960.28         659,340.03         32.269427         -103.9516           3,800.00         3.52         138.30         3,798.93         -28.60	
3,300.00         3.00         138.30         3,299.86         -5.86         5.22         461,978.44         659,323.86         32.269477         -103.9518           3,351.87         3.52         138.30         3,351.65         -8.06         7.19         461,976.24         659,325.82         32.269471         -103.9518           3,400.00         3.52         138.30         3,399.69         -10.27         9.15         461,974.03         659,327.78         32.269464         -103.9518           3,500.00         3.52         138.30         3,499.50         -14.85         13.23         461,969.45         659,331.87         32.269452         -103.9518           3,600.00         3.52         138.30         3,599.31         -19.44         17.32         461,964.86         659,335.95         32.269439         -103.9518           3,700.00         3.52         138.30         3,699.12         -24.02         21.40         461,960.28         659,340.03         32.269427         -103.9518           3,800.00         3.52         138.30         3,798.93         -28.60         25.48         461,955.70         659,344.12         32.269414         -103.9518	
3,351.87         3.52         138.30         3,351.65         -8.06         7.19         461,976.24         659,325.82         32.269471         -103.9518           3,400.00         3.52         138.30         3,399.69         -10.27         9.15         461,974.03         659,327.78         32.269464         -103.9518           3,500.00         3.52         138.30         3,499.50         -14.85         13.23         461,969.45         659,331.87         32.269452         -103.9518           3,600.00         3.52         138.30         3,599.31         -19.44         17.32         461,964.86         659,335.95         32.269439         -103.9518           3,700.00         3.52         138.30         3,699.12         -24.02         21.40         461,960.28         659,340.03         32.269427         -103.9518           3,800.00         3.52         138.30         3,798.93         -28.60         25.48         461,955.70         659,344.12         32.269414         -103.9518	
3,400.00         3.52         138.30         3,399.69         -10.27         9.15         461,974.03         659,327.78         32.269464         -103.9518           3,500.00         3.52         138.30         3,499.50         -14.85         13.23         461,969.45         659,331.87         32.269452         -103.9518           3,600.00         3.52         138.30         3,599.31         -19.44         17.32         461,964.86         659,335.95         32.269439         -103.9518           3,700.00         3.52         138.30         3,699.12         -24.02         21.40         461,960.28         659,340.03         32.269427         -103.9518           3,800.00         3.52         138.30         3,798.93         -28.60         25.48         461,955.70         659,344.12         32.269414         -103.9518	
3,500.00         3.52         138.30         3,499.50         -14.85         13.23         461,969.45         659,331.87         32.269452         -103.9518           3,600.00         3.52         138.30         3,599.31         -19.44         17.32         461,964.86         659,335.95         32.269439         -103.9518           3,700.00         3.52         138.30         3,699.12         -24.02         21.40         461,960.28         659,340.03         32.269427         -103.9518           3,800.00         3.52         138.30         3,798.93         -28.60         25.48         461,955.70         659,344.12         32.269414         -103.9518	
3,600.00         3.52         138.30         3,599.31         -19.44         17.32         461,964.86         659,335.95         32.269439         -103.9518           3,700.00         3.52         138.30         3,699.12         -24.02         21.40         461,960.28         659,340.03         32.269427         -103.9518           3,800.00         3.52         138.30         3,798.93         -28.60         25.48         461,955.70         659,344.12         32.269414         -103.9518	
3,700.00         3.52         138.30         3,699.12         -24.02         21.40         461,960.28         659,340.03         32.269427         -103.9518           3,800.00         3.52         138.30         3,798.93         -28.60         25.48         461,955.70         659,344.12         32.269414         -103.9518	
3,800.00 3.52 138.30 3,798.93 -28.60 25.48 461,955.70 659,344.12 32.269414 -103.951	
3,900.00 3.52 138.30 3,898.75 -33.18 29.56 461,951.12 659,348.20 32.269401 -103.951	
4,000.00 3.52 138.30 3,998.56 -37.77 33.65 461,946.53 659,352.28 32.269389 -103.951	
4,100.00 3.52 138.30 4,098.37 -42.35 37.73 461,941.95 659,356.36 32.269376 -103.9514	
4,200.00 3.52 138.30 4,198.18 -46.93 41.81 461,937.37 659,360.45 32.269363 -103.9514	
4,300.00 3.52 138.30 4,297.99 -51.51 45.89 461,932.79 659,364.53 32.269351 -103.9514	
4,400.00 3.52 138.30 4,397.80 -56.10 49.98 461,928.20 659,368.61 32.269338 -103.9514	
4,500.00 3.52 138.30 4,497.61 -60.68 54.06 461,923.62 659,372.69 32.269325 -103.9514	
4,600.00 3.52 138.30 4,597.43 -65.26 58.14 461,919.04 659,376.78 32.269313 -103.9514	
4,700.00 3.52 138.30 4,697.24 -69.84 62.22 461,914.46 659,380.86 32.269300 -103.9514	
4,800.00 3.52 138.30 4,797.05 -74.43 66.31 461,909.87 659,384.94 32.269288 -103.9514	
4,900.00 3.52 138.30 4,896.86 -79.01 70.39 461,905.29 659,389.02 32.269275 -103.9513	
5,000.00 3.52 138.30 4,996.67 -83.59 74.47 461,900.71 659,393.11 32.269262 -103.9513	51375
5,100.00 3.52 138.30 5,096.48 -88.17 78.56 461,896.13 659,397.19 32.269250 -103.9513	51362
5,200.00 3.52 138.30 5,196.29 -92.76 82.64 461,891.54 659,401.27 32.269237 -103.9513	51349
5,300.00 3.52 138.30 5,296.11 -97.34 86.72 461,886.96 659,405.36 32.269224 -103.9513	51336

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Hot Potato 26-23 Fed Com 333H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3094.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3094.80ft
Site:	Sec 26-T23S-R29E	North Reference:	Grid
Well:	Hot Potato 26-23 Fed Com 333H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitudo
						. ,	. ,		Longitude
5,400.00	3.52	138.30	5,395.92	-101.92	90.80	461,882.38	659,409.44	32.269212	-103.951323
5,500.00	3.52	138.30	5,495.73	-106.50	94.89	461,877.80	659,413.52	32.269199	-103.951309
5,600.00	3.52	138.30	5,595.54	-111.09	98.97	461,873.21	659,417.60	32.269186	-103.951296
5,700.00	3.52	138.30	5,695.35	-115.67	103.05	461,868.63	659,421.69	32.269174	-103.951283
5,800.00	3.52	138.30	5,795.16	-120.25	107.13	461,864.05	659,425.77	32.269161	-103.951270
5,900.00	3.52	138.30	5,894.98	-124.83	111.22	461,859.47	659,429.85	32.269149	-103.951257
6,000.00	3.52	138.30	5,994.79	-129.42	115.30	461,854.88	659,433.93	32.269136	-103.951244
6,100.00	3.52	138.30	6,094.60	-134.00	119.38	461,850.30	659,438.02	32.269123	-103.951230
6,200.00	3.52	138.30	6,194.41	-138.58	123.46	461,845.72	659,442.10	32.269111	-103.951217
6,300.00	3.52	138.30	6,294.22	-143.17	127.55	461,841.14	659,446.18	32.269098	-103.951204
6,400.00	3.52	138.30	6,394.03	-147.75	131.63	461,836.55	659,450.26	32.269085	-103.951191
6,500.00	3.52	138.30	6,493.84	-152.33	135.71	461,831.97	659,454.35	32.269073	-103.951178
6,600.00	3.52	138.30	6,593.66	-156.91	139.80	461,827.39	659,458.43	32.269060	-103.951165
6,700.00	3.52	138.30	6,693.47	-161.50	143.88	461,822.81	659,462.51	32.269047	-103.951152
6,800.00	3.52	138.30	6,793.28	-166.08	147.96	461,818.22	659,466.59	32.269035	-103.951138
6,900.00	3.52	138.30	6,893.09	-170.66	152.04	461,813.64	659,470.68	32.269022	-103.951125
7,000.00	3.52	138.30	6,992.90	-175.24	156.13	461,809.06	659,474.76	32.269010	-103.951112
7,100.00	3.52	138.30	7,092.71	-179.83	160.21	461,804.48	659,478.84	32.268997	-103.951099
7,200.00	3.52	138.30	7,192.52	-184.41	164.29	461,799.89	659,482.93	32.268984	-103.951086
7,300.00	3.52	138.30	7,292.34	-188.99	168.37	461,795.31	659,487.01	32.268972	-103.951073
7,400.00	3.52	138.30	7,392.15	-193.57	172.46	461,790.73	659,491.09	32.268959	-103.951059
7,500.00	3.52	138.30	7,491.96	-198.16	176.54	461,786.14	659,495.17	32.268946	-103.951046
7,600.00	3.52	138.30	7,591.77	-202.74	180.62	461,781.56	659,499.26	32.268934	-103.951033
7,700.00	3.52	138.30	7,691.58	-207.32	184.70	461,776.98	659,503.34	32.268921	-103.951020
7,800.00	3.52	138.30	7,791.39	-211.90	188.79	461,772.40	659,507.42	32.268908	-103.951007
7,900.00	3.52	138.30	7,891.20	-216.49	192.87	461,767.81	659,511.50	32.268896	-103.950994
8,000.00	3.52	138.30	7,991.02	-221.07	196.95	461,763.23	659,515.59	32.268883	-103.950980
8,100.00	3.52	138.30	8,090.83	-225.65	201.03	461,758.65	659,519.67	32.268871	-103.950967
8,200.00	3.52	138.30	8,190.64	-230.23	205.12	461,754.07	659,523.75	32.268858	-103.950954
8,300.00	3.52	138.30	8,290.45	-234.82	209.20	461,749.48	659,527.83	32.268845	-103.950941
8,400.00	3.52	138.30	8,390.26	-239.40	213.28	461,744.90	659,531.92	32.268833	-103.950928
8,500.00	3.52	138.30	8,490.07	-243.98	217.37	461,740.32	659,536.00	32.268820	-103.950915
8,600.00	3.52	138.30	8,589.89	-248.56	221.45	461,735.74	659,540.08	32.268807	-103.950902
8,700.00	3.52	138.30	8,689.70	-253.15	225.53	461,731.15	659,544.17	32.268795	-103.950888
8,800.00	3.52	138.30	8,789.51	-257.73	229.61	461,726.57	659,548.25	32.268782	-103.950875
8,900.00	3.52	138.30	8,889.32	-262.31	233.70	461,721.99	659,552.33	32.268769	-103.950862
9,000.00	3.52	138.30	8,989.13	-266.89	237.78	461,717.41	659,556.41	32.268757	-103.950849
9,059.55	3.52	138.30	9,048.57	-269.62	240.21	461,714.68	659,558.84	32.268749	-103.950841
9,100.00	2.91	138.30	9,088.96	-271.32	241.72	461,712.98	659,560.35	32.268745	-103.950836
9,200.00	1.41	138.30	9,188.88	-274.13	244.23	461,710.17	659,562.86	32.268737	-103.950828
9,294.13	0.00	0.01	9,283.00	-275.00	245.00	461,709.30	659,563.63	32.268734	-103.950826
9,300.00	0.00	0.00	9,288.87	-275.00	245.00	461,709.30	659,563.63	32.268734	-103.950826
9,400.00	0.00	0.00	9,388.87	-275.00	245.00	461,709.30	659,563.63	32.268734	-103.950826
9,500.00	0.00	0.00	9,488.87	-275.00	245.00	461,709.30	659,563.63	32.268734	-103.950826
9,600.00	0.00	0.00	9,588.87	-275.00	245.00	461,709.30	659,563.63	32.268734	-103.950826
9,644.17	0.00	0.00	9,633.04	-275.00	245.00	461,709.30	659,563.63	32.268734	-103.950826
KOP @ 9	9644' MD, 50' I	FSL, 1254' FV	VL						
9,700.00	5.58	359.71	9,688.78	-272.28	244.99	461,712.02	659,563.62	32.268742	-103.950826
9,800.00	15.58	359.71	9,786.96	-253.94	244.89	461,730.36	659,563.53	32.268792	-103.950826
9,885.00	24.08	359.71	9,866.84	-225.13	244.75	461,759.17	659,563.39	32.268872	-103.950826
	885' MD, 100'								
9,900.00	25.58	359.71	9,880.46	-218.83	244.72	461,765.47	659,563.35	32.268889	-103.950826
10,000.00	35.58	359.71	9,966.44	-168.01	244.47	461,816.29	659,563.10	32.269029	-103.950826
10,100.00	45.58	359.71	10,042.29	-103.04	244.14	461,881.26	659,562.78	32.269207	-103.950826

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Hot Potato 26-23 Fed Com 333H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3094.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3094.80ft
Site:	Sec 26-T23S-R29E	North Reference:	Grid
Well:	Hot Potato 26-23 Fed Com 333H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
10,200.00	55.58	359.71	10,105.70	-25.89	243.76	461,958.41	659,562.39	32.269419	-103.950827
10,300.00	65.58	359.71	10,154.75	61.11	243.32	462,045.41	659,561.96	32.269658	-103.950827
10,400.00	75.58	359.71	10,187.96	155.30	242.85	462,139.60	659,561.49	32.269917	-103.950828
10,500.00	85.58	359.71	10,204.30	253.83	242.36	462,238.13	659,561.00	32.270188	-103.950828
10,544.17	90.00	359.71	10,206.00	297.95	242.14	462,282.25	659,560.77	32.270309	-103.950828
10,600.00	90.00	359.71	10,206.00	353.78	241.86	462,338.08	659,560.50	32.270463	-103.950829
10,700.00	90.00	359.71	10,206.00	453.78	241.36	462,438.08	659,560.00	32.270738	-103.950829
10,800.00	90.00	359.71	10,206.00	553.78	240.86	462,538.08	659,559.50	32.271013	-103.950829
10,900.00	90.00	359.71	10,206.00	653.78	240.36	462,638.08	659,559.00	32.271288	-103.950830
11,000.00	90.00	359.71	10,206.00	753.78	239.87	462,738.07	659,558.50	32.271562	-103.950830
11,100.00	90.00	359.71	10,206.00	853.77	239.37	462,838.07	659,558.00	32.271837	-103.950831
11,200.00	90.00	359.71	10,206.00	953.77	238.87	462,938.07	659,557.50	32.272112	-103.950831
11,300.00	90.00	359.71	10,206.00	1,053.77	238.37	463,038.07	659,557.00	32.272387	-103.950832
11,400.00	90.00	359.71	10,206.00	1,153.77	237.87	463,138.07	659,556.50	32.272662	-103.950832
11,500.00	90.00	359.71	10,206.00	1,253.77	237.37	463,238.07	659,556.00	32.272937	-103.950833
11,600.00	90.00	359.71	10,206.00	1,353.77	236.87	463,338.07	659,555.51	32.273212	-103.950833
11,700.00	90.00	359.71	10,206.00	1,453.77	236.37	463,438.06	659,555.01	32.273487	-103.950834
11,800.00	90.00	359.71	10,206.00	1,553.77	235.87	463,538.06	659,554.51	32.273762	-103.950834
11,900.00	90.00	359.71	10,206.00	1,653.76	235.37	463,638.06	659,554.01	32.274036	-103.950835
12,000.00	90.00	359.71	10,206.00	1,753.76	234.88	463,738.06	659,553.51	32.274311	-103.950835
12,100.00	90.00	359.71	10,206.00	1,853.76	234.38	463,838.06	659,553.01	32.274586	-103.950835
12,200.00	90.00	359.71	10,206.00	1,953.76	233.88	463,938.06	659,552.51	32.274861	-103.950836
12,300.00	90.00	359.71	10,206.00	2,053.76	233.38	464,038.06	659,552.01	32.275136	-103.950836
12,400.00	90.00	359.71	10,206.00	2,153.76	232.88	464,138.05	659,551.51	32.275411	-103.950837
12,500.00	90.00	359.71	10,206.00	2,253.76	232.38	464,238.05	659,551.01	32.275686	-103.950837
12,600.00	90.00	359.71	10,206.00	2,353.76	231.88	464,338.05	659,550.52	32.275961	-103.950838
12,700.00	90.00	359.71	10,206.00	2,453.75	231.38	464,438.05	659,550.02	32.276235	-103.950838
12,800.00	90.00	359.71	10,206.00	2,553.75	230.88	464,538.05	659,549.52	32.276510	-103.950839
12,900.00	90.00	359.71	10,206.00	2,653.75	230.38	464,638.05	659,549.02	32.276785	-103.950839
13,000.00	90.00	359.71	10,206.00	2,753.75	229.88	464,738.05	659,548.52	32.277060	-103.950840
13,100.00	90.00	359.71	10,206.00	2,853.75	229.39	464,838.04	659,548.02	32.277335	-103.950840
13,200.00	90.00	359.71	10,206.00	2,953.75	228.89	464,938.04	659,547.52	32.277610	-103.950841
13,300.00	90.00	359.71	10,206.00	3,053.75	228.39	465,038.04	659,547.02	32.277885	-103.950841
13,400.00	90.00	359.71	10,206.00	3,153.75	227.89	465,138.04	659,546.52	32.278160	-103.950841
13,500.00	90.00	359.71	10,206.00	3,253.74	227.39	465,238.04	659,546.02	32.278435	-103.950842
13,600.00	90.00	359.71	10,206.00	3,353.74	226.89	465,338.04	659,545.52	32.278709	-103.950842
13,700.00	90.00	359.71	10,206.00	3,453.74	226.39	465,438.04	659,545.03	32.278984	-103.950843
13,800.00	90.00	359.71	10,206.00	3,553.74	225.89	465,538.03	659,544.53	32.279259	-103.950843
13,900.00	90.00	359.71	10,206.00	3,653.74	225.39	465,638.03	659,544.03	32.279534	-103.950844
14,000.00	90.00	359.71	10,206.00	3,753.74	224.89	465,738.03	659,543.53	32.279809	-103.950844
14,100.00	90.00	359.71	10,206.00	3,853.74	224.39	465,838.03	659,543.03	32.280084	-103.950845
14,200.00	90.00	359.71	10,206.00	3,953.74	223.90	465,938.03	659,542.53	32.280359	-103.950845
14,300.00	90.00	359.71	10,206.00	4,053.73	223.40	466,038.03	659,542.03	32.280634	-103.950846
14,400.00	90.00	359.71	10,206.00	4,153.73	222.90	466,138.03	659,541.53	32.280908	-103.950846
14,500.00	90.00	359.71	10,206.00	4,253.73	222.40	466,238.02	659,541.03	32.281183	-103.950847
14,600.00	90.00	359.71	10,206.00	4,353.73	221.90	466,338.02	659,540.53	32.281458	-103.950847
14,700.00	90.00	359.71	10,206.00	4,453.73	221.40	466,438.02	659,540.03	32.281733	-103.950847
14,800.00	90.00	359.71	10,206.00	4,553.73	220.90	466,538.02	659,539.54	32.282008	-103.950848
14,900.00	90.00	359.71	10,206.00	4,653.73	220.40	466,638.02	659,539.04	32.282283	-103.950848
15,000.00	90.00	359.71	10,206.00	4,753.73	219.90	466,738.02	659,538.54	32.282558	-103.950849
15,100.00	90.00	359.71	10,206.00	4,853.72	219.40	466,838.02	659,538.04	32.282833	-103.950849
15,200.00	90.00	359.71	10,206.00	4,953.72	218.91	466,938.01	659,537.54	32.283108	-103.950850
15,241.00	90.00	359.71	10,206.00	4,994.72	218.70	466,979.01	659,537.33	32.283220	-103.950850
Cross se	ection @ 1524	1' MD, 0' FSL	., 1254' FWL						

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Hot Potato 26-23 Fed Com 333H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3094.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3094.80ft
Site:	Sec 26-T23S-R29E	North Reference:	Grid
Well:	Hot Potato 26-23 Fed Com 333H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
15,300.00	90.00	359.71	10,206.00	5,053.72	218.41	467,038.01	659,537.04	32.283382	-103.950850
15,400.00	90.00	359.71	10,206.00	5,153.72	217.91	467,138.01	659,536.54	32.283657	-103.950851
15,500.00	90.00	359.71	10,206.00	5,253.72	217.41	467,238.01	659,536.04	32.283932	-103.950851
15,600.00	90.00	359.71	10,206.00	5,353.72	216.91	467,338.01	659,535.54	32.284207	-103.950852
15,700.00	90.00	359.71	10,206.00	5,453.72	216.41	467,438.01	659,535.04	32.284482	-103.950852
15,800.00	90.00	359.71	10,206.00	5,553.72	215.91	467,538.01	659,534.55	32.284757	-103.950853
15,900.00	90.00	359.71	10,206.00	5,653.71	215.41	467,638.00	659,534.05	32.285032	-103.950853
16,000.00	90.00	359.71	10,206.00	5,753.71	214.91	467,738.00	659,533.55	32.285307	-103.950853
16,100.00	90.00	359.71	10,206.00	5,853.71	214.41	467,838.00	659,533.05	32.285581	-103.950854
16,200.00	90.00	359.71	10,206.00	5,953.71	213.91	467,938.00	659,532.55	32.285856	-103.950854
16,300.00	90.00	359.71	10,206.00	6,053.71	213.42	468,038.00	659,532.05	32.286131	-103.950855
16,400.00	90.00	359.71	10,206.00	6,153.71	212.92	468,138.00	659,531.55	32.286406	-103.950855
16,500.00	90.00	359.71	10,206.00	6,253.71	212.42	468,238.00	659,531.05	32.286681	-103.950856
16,600.00	90.00	359.71	10,206.00	6,353.71	211.92	468,337.99	659,530.55	32.286956	-103.950856
16,700.00	90.00	359.71	10,206.00	6,453.70	211.42	468,437.99	659,530.05	32.287231	-103.950857
16,800.00	90.00	359.71	10,206.00	6,553.70	210.92	468,537.99	659,529.55	32.287506	-103.950857
16,900.00	90.00	359.71	10,206.00	6,653.70	210.42	468,637.99	659,529.06	32.287781	-103.950858
17,000.00	90.00	359.71	10,206.00	6,753.70	209.92	468,737.99	659,528.56	32.288055	-103.950858
17,100.00	90.00	359.71	10,206.00	6,853.70	209.42	468,837.99	659,528.06	32.288330	-103.950859
17,200.00	90.00	359.71	10,206.00	6,953.70	208.92	468,937.99	659,527.56	32.288605	-103.950859
17,300.00	90.00	359.71	10,206.00	7,053.70	208.42	469,037.98	659,527.06	32.288880	-103.950859
17,400.00	90.00	359.71	10,206.00	7,153.70	207.93	469,137.98	659,526.56	32.289155	-103.950860
17,500.00	90.00	359.71	10,206.00	7,253.69	207.43	469,237.98	659,526.06	32.289430	-103.950860
17,600.00	90.00	359.71	10,206.00	7,353.69	206.93	469,337.98	659,525.56	32.289705	-103.950861
17,700.00	90.00	359.71	10,206.00	7,453.69	206.43	469,437.98	659,525.06	32.289980	-103.950861
17,800.00	90.00	359.71	10,206.00	7,553.69	205.93	469,537.98	659,524.56	32.290255	-103.950862
17,900.00	90.00	359.71	10,206.00	7,653.69	205.33	469,637.97	659,524.06	32.290529	-103.950862
18,000.00	90.00	359.71	10,206.00	7,753.69	203.43	469,737.97	659,523.57	32.290804	-103.950863
18,100.00	90.00	359.71	10,206.00	7,853.69	204.33	469,837.97	659,523.07	32.291079	-103.950863
18,200.00	90.00	359.71	10,206.00	7,953.69	204.43	469,937.97	659,522.57	32.291354	-103.950864
18,300.00	90.00	359.71	10,206.00	8,053.68	203.43	470,037.97	659,522.07	32.291629	-103.950864
18,400.00	90.00	359.71	10,206.00	8,153.68	203.43	470,137.97	659,521.57	32.291904	-103.950865
18,500.00	90.00	359.71	10,206.00	8,253.68	202.34	470,237.97	659,521.07	32.292179	-103.950865
18,600.00	90.00	359.71	10,206.00	8,353.68	202.44	470,337.96	659,520.57	32.292454	-103.950865
18,700.00	90.00	359.71	10,206.00	8,453.68	201.94	470,437.96	659,520.07	32.292728	-103.950866
18,800.00	90.00	359.71	10,206.00	8,553.68	201.44	470,537.96	659,519.57	32.293003	-103.950866
18,900.00	90.00	359.71	10,206.00	8,653.68	200.94	470,637.96	659,519.07	32.293278	-103.950867
19,000.00	90.00	359.71	10,206.00	8,753.68	199.94	470,737.96	659,518.58	32.293553	-103.950867
19,000.00	90.00	359.71	10,206.00	8,853.68	199.94 199.44	470,837.96	659,518.08	32.293828	-103.950868
19,100.00	90.00	359.71	10,206.00	8,953.67	199.44	470,937.96	659,517.58	32.293626	-103.950868
19,200.00	90.00	359.71	10,206.00	9,053.67	198.94	471,037.95	659,517.08	32.294378	-103.950869
									-103.950869
19,400.00	90.00	359.71	10,206.00	9,153.67	197.94	471,137.95	659,516.58	32.294653	
19,500.00	90.00	359.71	10,206.00	9,253.67	197.45	471,237.95	659,516.08	32.294928	-103.950870
19,600.00	90.00	359.71	10,206.00	9,353.67	196.95	471,337.95	659,515.58	32.295202	-103.950870
19,700.00	90.00	359.71	10,206.00	9,453.67	196.45	471,437.95	659,515.08	32.295477	-103.950871
19,800.00	90.00	359.71	10,206.00	9,553.67	195.95	471,537.95	659,514.58	32.295752	-103.950871
19,900.00	90.00	359.71	10,206.00	9,653.67	195.45	471,637.95	659,514.08	32.296027	-103.950871
20,000.00	90.00	359.71	10,206.00	9,753.66	194.95	471,737.94	659,513.58	32.296302	-103.950872
20,100.00	90.00	359.71	10,206.00	9,853.66	194.45	471,837.94	659,513.09	32.296577	-103.950872
20,200.00	90.00	359.71	10,206.00	9,953.66	193.95	471,937.94	659,512.59	32.296852	-103.950873
20,300.00	90.00	359.71	10,206.00	10,053.66	193.45	472,037.94	659,512.09	32.297127	-103.950873
20,400.00	90.00	359.71	10,206.00	10,153.66	192.95	472,137.94	659,511.59	32.297401	-103.950874
20,451.00	90.00	359.71	10,206.00	10,204.66	192.70	472,188.94	659,511.33	32.297542	-103.950874
LTP @ 20	0451' MD, 100	' FNL, 1254' F	FEL						

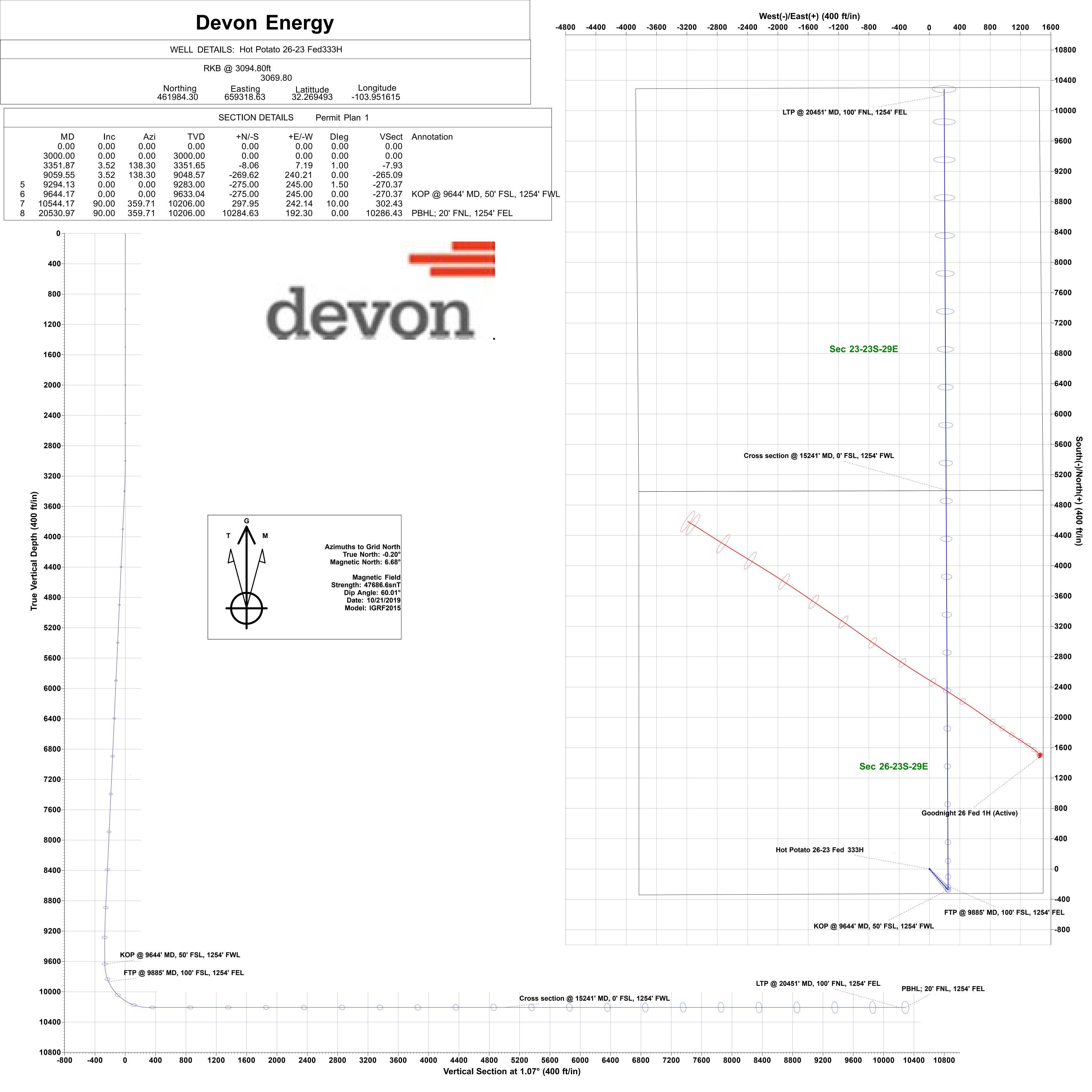
#### Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Hot Potato 26-23 Fed Com 333H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3094.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3094.80ft
Site:	Sec 26-T23S-R29E	North Reference:	Grid
Well:	Hot Potato 26-23 Fed Com 333H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,500.00	90.00	359.71	10,206.00	10,253.66	192.45	472,237.94	659,511.09	32.297676	-103.950874
20,530.96	90.00	359.71	10,206.00	10,284.62	192.30	472,268.90	659,510.93	32.297761	-103.950874
PBHL; 20	)' FNL, 1254' I	FEL							
20,530.97	90.00	359.71	10,206.00	10,284.63	192.30	472,268.91	659,510.93	32.297761	-103.950874

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Hot Potato 26-23 - plan misses target - Point		0.00 06.00ft at 20	0.00 530.97ft MD	10,284.63 (10206.00 T\	192.30 /D, 10284.63 I	472,268.91 N, 192.30 E)	659,510.93	32.297761	-103.950874

Plan Annotations					
Meas	ured	Vertical	Local Coord	dinates	
Dep		Depth	+N/-S	+E/-W	
(ft	:)	(ft)	(ft)	(ft)	Comment
9,6	44.17	9,633.04	-275.00	245.00	KOP @ 9644' MD, 50' FSL, 1254' FWL
9,8	85.00	9,866.84	-225.13	244.75	FTP @ 9885' MD, 100' FSL, 1254' FEL
15,2	41.00	10,206.00	4,994.72	218.70	Cross section @ 15241' MD, 0' FSL, 1254' FWL
20,4	51.00	10,206.00	10,204.66	192.70	LTP @ 20451' MD, 100' FNL, 1254' FEL
20,5	30.96	10,206.00	10,284.62	192.30	PBHL; 20' FNL, 1254' FEL



## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Devon Energy Production Company LP
LEASE NO.:	NMNM103603
LOCATION:	Section 26, T.23 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Hot Potato 26-23 Fed 333H
SURFACE HOLE FOOTAGE:	325'/S & 1499'/E
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 1254'/E

## COA

H2S	C Yes	🖸 No	
Potash	None None	Secretary	🖸 R-111-P
Cave/Karst Potential	Low	🖸 Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	C None	E Flex Hose	C Other
Wellhead	Conventional	C Multibowl	🖸 Both
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	СОМ	🗖 Unit

#### 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 **13-3/8** inch surface casing shall be set at approximately **375 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</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.
- 2. The minimum required fill of cement behind the **10-3/4** inch intermediate casing shall be set at approximately **3210 feet** is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement might be required.
  - In <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
  - In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.

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

- 3. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement might be required.

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

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **500 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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000** (**3M**) 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.

## **GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - Lea County
     Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 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 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

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

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

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

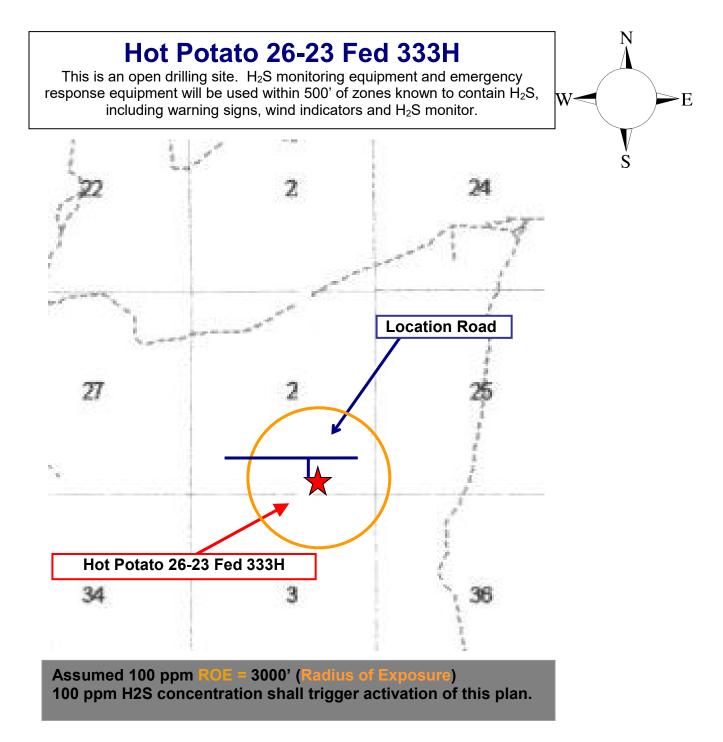
For

## Hot Potato 26-23 Fed 333H

Sec-26 T-23S R-29E 325 FSL & 1499' FEL LAT. = 32.269493' N (NAD83) LONG = 103.951615' W

**Eddy County NM** 

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#### 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	H₂S	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 and Public Protection Plan.

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

### II. HYDROGEN SULFIDE TRAINING

Note: All H<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  $H_2S$ .

### 1. Well Control Equipment

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

#### 2. Protective equipment for essential personnel:

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

### 3. 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<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S 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

Drilling Supervisor – Basin – Mark Kramer

405-823-4796

EHS Professional – Laura Wright

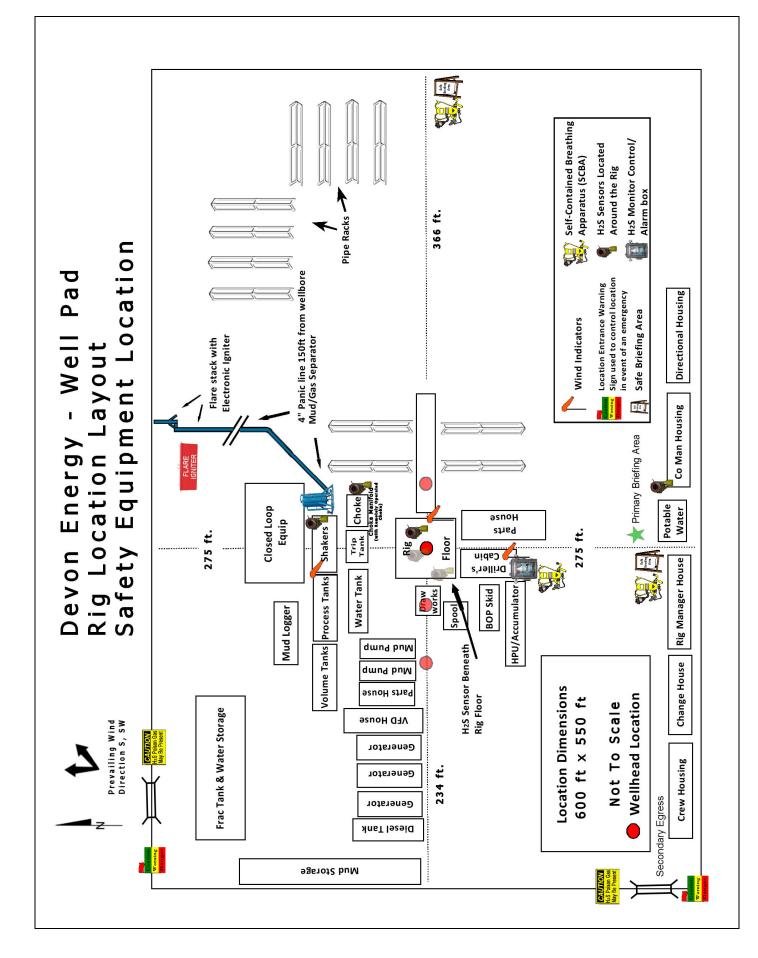
405-439-8129

## Agency Call List

<u>Lea</u>	Hobbs	
<u>County</u>	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Eddy	Carlsbad	
County	State Police	885-3137
(575)	City Police	885-2111
<u> </u>	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(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
	Emergency Services	(***)=****
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 699-	(915) 563-3356
	0139 Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give		\ /
GIVE GPS	Native Air – Emergency Helicopter – Hobbs (NM and TX) Flight For Life - Lubbock, TX	(800)642-7828 (806) 743-9911
position:	Aerocare - Lubbock, TX	(806) 743-9911
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	000/0000
	Norr - Websile - WWW.IIIIo.IIOaa.yov	

Prepared in conjunction with Dave Small





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