Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR RUBEAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

5. Lease Serial No.

BUREAU OF LAND MANA	AGEMENT		NMNM089057	
APPLICATION FOR PERMIT TO D	RILL OR REENTER		6. If Indian, Allotee or Tribe	Name
1a. Type of work: PIDRILL RI	EENTER		7. If Unit or CA Agreement,	Name and No.
1b. Type of Well: Oil Well Gas Well Ot	her	-	8. Lease Name and Well No.	
	ngle Zone Multiple Zone		8. Lease Name and Well No. SHETLAND 11 FED	
it. Type of completion. I Trydiaune Placturing	ligie Zolie Widitiple Zolie		SHETLAND TT FED	
			714H	
2. Name of Operator			9. API Well No.	
DEVON ENERGY PRODUCTION COMPANY LP			3001547138	
Ba. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explor	ratory
333 West Sheridan Avenue, Oklahoma City, OK 73102	(800) 583-3866		PURPLE SAGE-WOLFCA	MP
4. Location of Well (Report location clearly and in accordance v	vith any State requirements.*)		11. Sec., T. R. M. or Blk. and	l Survey or Area
At surface NENE / 445 FNL / 930 FEL / LAT 32.063644	47 / LONG -103.7432904		SEC 11/T26S/R31E/NMP	
At proposed prod. zone SESE / 330 FSL / 990 FEL / LAT	32.0510883 / LONG -103.743488	87		
14. Distance in miles and direction from nearest town or post offi	ce*		12. County or Parish	13. State
			EDDY	NM
15. Distance from proposed* location to nearest 445 feet	16. No of acres in lease 17	7. Spacin	g Unit dedicated to this well	
property or lease line, ft.	2160	60.0		
(Also to nearest drig. unit line, if any)		2 27 7 7 7	27.1 72.1 2.1	
18. Distance from proposed location* to nearest well, drilling, completed, applied for on this lease ft 690 feet	19. Proposed Depth 20). BLM/E	BIA Bond No. in file	
applied for, on this lease, ft. 690 feet	11737 feet / 16466 feet FB	ED: NMI	B000801	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will star	rt*	23. Estimated duration	
3255 feet	12/01/2020		45 days	
	24. Attachments			
The following, completed in accordance with the requirements of	Onshore Oil and Gas Order No. 1, an	nd the H	ydraulic Fracturing rule per 4	3 CFR 3162.3-3

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be requested by the

25. Signature (Electronic Submission)	Name (Printed/Typed) Jenny Harms / Ph: (800) 583-3866	Date 11/21/2019
Title		
Regulatory Compliance Professional		
Approved by (Signature)	Name (Printed/Typed)	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	05/27/2020
Title	Office	
Assistant Field Manager Lands & Minerals	Carlehad Field Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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.



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

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

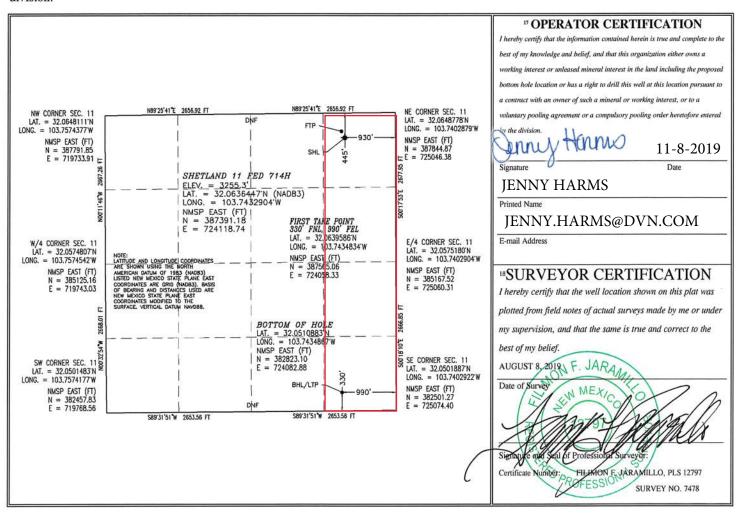
■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

98220 Code	Purple Sage Wolfcamp				
⁵ Pro	⁵ Property Name				
SHETL	714H				
8 Ope	erator Name	⁹ Elevation			
DEVON ENERGY PRO	3255.3				
	98220 SPro SHETL 8 Ope				

UL or lot no.	Section 11	Township 26 S	Range 31 E	Lot Idn	Feet from the 445	North/South line NORTH	Feet from the 930	EAST	County EDDY
			п В	ottom Ho	ole Location	If Different Fr	om Surface		
UL or lot no.	Section 11	Township 26 S	Range 31 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 990	East/West line EAST	County EDDY
Dedicated Acre -160- 320		or Infill	Consolidation	n Code		<u>.</u>	15 Order No.		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Intent	X	As Drill	ed									
API#]									
Ope	rator Nan	ne:	<u> </u>			Property N	lame:					Well Number
DEVON ENERGY PRODUCTION CO., L.P.					L.P.	SHI	TLAI	ND 11	FED			714H
ick C	Off Point (KOD)			,							
UL	Section	Township	Range	Lot	Feet	From I	N/S	Feet		om E/W	County	
A Latitu 32.0	11 ide 6473100	26S	31E		50 FNL Longitu	de 4347700		990 FE	L		NAD	
	0473100				-103.7	4347700					83	
irst T	ake Poin	t (FTP)										
UL A	Section 11	Township 26S	Range 31E	Lot	Feet 330	From NOR	I/S TH	Feet 990	Fr E	om E/W AST	County EDDY	
Latitu	ide 32.063	9586			Longitu	gitude NA 103.7434834					NAD 83	
_ast T UL P	Section	Township 26S	Range 31E	Lot	Feet 330	From N/S SOUTH	Feet 99 (,	From E/W EAST	/ Cour	nty DY	
Latitu	l ıde	510883		<u> </u>	Longitu					NAD		
s this	well the	defining w	ell for the	· Horizo	ontal Spa	cing Unit?		YES				
s this	well an i	nfill well?		NO								
Spacir	ng Unit.	lease prov	ride API i	f availa	ible, Ope	erator Nam	e and	well r	number	for Def	fining well	for Horizontal
API#												
Ope	rator Nan	ne:	,			Property N	lame:					Well Number

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

GAS CAPTURE PLAN

Date: November 8, 2019	
□ Original □	Devon & OGRID No.: <u>Devon Energy Production Co., L.P.</u> 6137
☐ 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 or Vented	Comments
SHETLAND 11 FED 332H		LOT N, SEC 11, 26S, 31E	350 FSL 2110 FWL			THOROUGHBRED 10 CTB 3
SHETLAND 11-2 FED STATE COM 711H		LOT N, SEC 11, 26S, 31E	15 FSL 475 FWL			SHETLAND 11 CTB 2
SHETLAND 11-2 FED STATE COM 611H		LOT M, SEC 11, 26S, 31E	15 FSL 505 FWL			SHETLAND 11 CTB 2
SHETLAND 11-2 FED STATE COM 731H		LOT M, SEC 11, 26S, 31E	15 FSL 535 FWL			SHETLAND 11 CTB 2
SHETLAND 11-2 FED STATE COM 712H		LOT N, SEC 11, 26S, 31E	350 FSL 2080 FWL			SHETLAND 11 CTB 2
SHETLAND 11-2 FED STATE COM 732H		LOT N, SEC 11, 26S, 31E	350 FSL 2140 FWL			SHETLAND 11 CTB 2
SHETLAND 2-11 FED STATE COM 613H		LOT A, SEC 2, 26S, 31E	170 FNL 1130 FEL			SHETLAND 11 CTB 2
SHETLAND 2-11 FED STATE COM 713H		LOT A, SEC 2, 26S, 31E	170 FNL 1160 FEL			SHETLAND 11 CTB 2
SHETLAND 2-11 FED STATE COM 733H		LOT A, SEC 2, 26S, 31E	170 FNL 1100 FEL			SHETLAND 11 CTB 2
SHETLAND 2-11 FED STATE COM 333H		LOT A, SEC 2, 26S, 31E	170 FNL 1070 FEL			SHETLAND 11 CTB 2
SHETLAND 11 FED 714H		LOT A, SEC 11, 26S, 31E	445 FNL 930 FEL			SNAPPING 12 CTB 2
SHETLAND 11 FED 734H		LOT A, SEC 11, 26S, 31E	445 FNL 900 FEL			SNAPPING 12 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 Lea County, New Mexico. It will require 0' 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 <u>DCP</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>DCP</u> Processing Plant located in the reference table. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

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 \underline{DCP} system at that time. Based on current information, it is $\underline{Devon's}$ 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
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Reference Table:

DCP Plant locations Artesia Sec. 7, T18S, R28E, Eunice Sec. 5, T21S, R36E Linam Sec. 6, T19S, R37E Zia II Sec. 19, T19S, R32E

Shetland 11 Fed 714H

1. Geologic Formations

TVD of target	11737	Pilot hole depth	N/A
MD at TD:	16466	Deepest expected fresh water	

Basin

Dasin	D (1	XX7 4 /N/I* 1	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	850		
Salt	1205		
Base of Salt	4185		
Delaware	4335		
Bell Canyon	4485		
Cherry Canyon	5195		
Brushy Canyon	6545		
Bone Spring 1st	8160		
Bone Spring 2nd	9835		
Bone Spring 3rd	10330		
Wolfcamp	11480		

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

2. Casing Program (Primary Design)

Hole Size	Casing	Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Grade	Colli	Collapse	Burst	Tension
17 1/2	0	875 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	10330 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Casing Program (Alternative Design)

Hole Size		Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Graue	Com	Collapse	Burst	Tension
17 1/2	0	875 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	10330 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6
7 7/8	0	TD	5 1/2	17.0	P110	ВТС	1.125	1.25	1.6
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- •Variance requested to drill 10.625" hole instead of 9.875" for intermediate 1, the 8.625" connection will change from TLW to BTC.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Shetland 11 Fed 714H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specficition sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading	Y
assumptions, casing design criteria).	
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating	Y
of the casing?	
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	11
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous	
casing?	
I III . I' D 111 D 100D40	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	- 1
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	672	Surf	13.2	1.44	Lead: Class C Cement + additives
Total	617	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	807	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	93	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	394	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	93	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	617	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	60	9176	9.0	3.3	Lead: Class H /C + additives
Floduction	338	11176	13.2	1.4	Tail: Class H / C + additives

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 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

3. Cementing Program (Alternative Design)

Casing	# Sks	TOC	Wt.	Yld (ft3/sack)	Slurry Description
Surface	672	Surf	13.2	1.44	Lead: Class C Cement + additives
Total	401	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	474	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w DV @ ~4500	270	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	401	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1 (10.625" Hole Size)	583	Surf	9	3.27	Lead: Class C Cement + additives
	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
D. I. C.	117	9176	9.0	3.3	Lead: Class H /C + additives
Production	700	11176	13.2	1.4	Tail: Class H / C + additives

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 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Ту	pe	✓	Tested to:									
			Ann	nular	X	50% of rated working pressure									
Int 1	13-58"	5M	Blind Ram		X										
IIIt I	13-36	3101	Pipe	Ram		5M									
			Doubl	le Ram	X	j SM									
			Other*												
			Annuls	ar (5M)	X	50% of rated working									
	13-5/8"		Annular (5M)			pressure									
Production		5M	Blind	l Ram	X										
Troduction			Pipe Ram			5M									
														e Ram	X
			Other*												
			Annula	ar (5M)											
			Blind Ram												
			Pipe Ram												
			Double Ram												
			Other*												
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.														
	A variance is requested to run a 5 M annular on a 10M system														

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, Coring and Testing				
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the			
X	Completion Report 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
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6408
Abnormal temperature	No

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

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

N	H2S is present
Y	H2S plan attached.

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).
- 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	1
X	Directional Plan
	Other, describe

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 11-T26S-R31E Shetland 11 Fed 714H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

31 October, 2019

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 11-T26S-R31E

 Well:
 Shetland 11 Fed 714H

 Wellbare:
 Wellbare: #1

Wellbore: Wellbore #1

Design: Permit Plan 1

Project:

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Shetland 11 Fed 714H

RKB @ 3280.30ft RKB @ 3280.30ft

Grid

Minimum Curvature

Project Eddy County (NAD 83 NM Eastern)

Map System: US State Plane 1983 System Datum:

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Sec 11-T26S-R31E

382,457.83 usft Northing: Site Position: Latitude: 32.050148 719,768.56 usft -103.757418 Мар Easting: From: Longitude: Position Uncertainty: Slot Radius: 13-3/16 " 0.31 0.00 ft **Grid Convergence:**

Well Shetland 11 Fed 714H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 387,391.18 usft
 Latitude:
 32.063645

 +E/-W
 0.00 ft
 Easting:
 724,118.74 usft
 Longitude:
 -103.743291

Position Uncertainty 0.50 ft Wellhead Elevation: Ground Level: 3,255.30 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 59.86 IGRF2015 10/29/2019 6.77 47,583.32549178

Permit Plan 1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 180.45

Plan Survey Tool Program Date 10/31/2019

Depth From Depth To

(ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 16,466.28 Permit Plan 1 (Wellbore #1) MWD+HDGM

OWSG MWD + HDGM

Plan Sections Measured Vertical Dogleg Ruild Turn Inclination +N/-S Depth Azimuth Depth +E/-W Rate Rate Rate TFO (ft) (°) (°) (ft) (ft) (ft) (°/100usft) (°/100usft) (°/100usft) Target (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4,000.00 0.00 0.00 4,000.00 0.00 0.00 0.00 0.00 0.00 0.00 4.350.56 3.51 351.36 4.350.34 10.60 -1.61 1.00 1.00 0.00 351.36 10,580.44 10,592.34 3.51 351.36 387.93 -58.93 0.00 0.00 0.00 0.00 10,826.04 0.00 0.00 10,814.00 395.00 -60.00 1.50 -1.50 0.00 180.00 11,176.08 0.00 0.00 11,164.04 395.00 -60.00 0.00 0.00 0.00 0.00 12,076.09 90.00 179.72 11,737.00 -177.95 -57.21 10.00 10.00 0.00 179.72 PBHL - Shetland 11 F 16,466.28 90.00 179.72 11,737.00 -4,568.09 -35.86 0.00 0.00 0.00 0.00 PBHL - Shetland 11 F

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 11-T26S-R31E

 Well:
 Shetland 11 Fed 714H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Shetland 11 Fed 714H

RKB @ 3280.30ft RKB @ 3280.30ft

Grid

Planned Survey	1								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
100.00	0.00	0.00	100.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
200.00	0.00	0.00	200.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
300.00	0.00	0.00	300.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
400.00	0.00	0.00	400.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
500.00		0.00	500.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
600.00		0.00	600.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
700.00		0.00	700.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
800.00		0.00	800.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
900.00		0.00	900.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,000.00	0.00	0.00	1,000.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,100.00		0.00	1,100.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,200.00	0.00	0.00	1,200.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,300.00		0.00	1,300.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,400.00	0.00	0.00	1,400.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,500.00	0.00	0.00	1,500.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,600.00		0.00	1,600.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,700.00		0.00	1,700.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,800.00	0.00	0.00	1,800.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
1,900.00		0.00	1,900.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
2,000.00	0.00	0.00	2,000.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
2,100.00		0.00	2,100.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
2,200.00		0.00	2,200.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
2,300.00		0.00 0.00	2,300.00	0.00 0.00	0.00 0.00	387,391.18	724,118.74 724,118.74	32.063645 32.063645	-103.743291 -103.743291
2,400.00 2,500.00		0.00	2,400.00 2,500.00	0.00	0.00	387,391.18 387,391.18	724,118.74 724,118.74	32.063645	-103.743291
2,600.00	0.00	0.00	2,600.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
2,700.00		0.00	2,700.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
2,800.00		0.00	2,800.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
2,900.00		0.00	2,900.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,000.00	0.00	0.00	3,000.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,100.00		0.00	3,100.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,200.00		0.00	3,200.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,300.00		0.00	3,300.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,400.00	0.00	0.00	3,400.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,500.00		0.00	3,500.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,600.00	0.00	0.00	3,600.00	0.00	0.00	387,391.18	724.118.74	32.063645	-103.743291
3,700.00		0.00	3,700.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,800.00	0.00	0.00	3,800.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
3,900.00	0.00	0.00	3,900.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
4,000.00	0.00	0.00	4,000.00	0.00	0.00	387,391.18	724,118.74	32.063645	-103.743291
4,100.00	1.00	351.36	4,100.00	0.86	-0.13	387,392.04	724,118.61	32.063647	-103.743291
4,200.00	2.00	351.36	4,199.96	3.45	-0.52	387,394.63	724,118.21	32.063654	-103.743292
4,300.00	3.00	351.36	4,299.86	7.76	-1.18	387,398.94	724,117.56	32.063666	-103.743294
4,350.56	3.51	351.36	4,350.34	10.60	-1.61	387,401.78	724,117.13	32.063674	-103.743296
4,400.00	3.51	351.36	4,399.69	13.59	-2.06	387,404.77	724,116.67	32.063682	-103.743297
4,500.00	3.51	351.36	4,499.50	19.63	-2.98	387,410.81	724,115.75	32.063699	-103.743300
4,600.00	3.51	351.36	4,599.31	25.68	-3.90	387,416.86	724,114.84	32.063715	-103.743303
4,700.00	3.51	351.36	4,699.13	31.72	-4.82	387,422.90	724,113.92	32.063732	-103.743306
4,800.00	3.51	351.36	4,798.94	37.77	-5.74	387,428.95	724,113.00	32.063749	-103.743308
4,900.00	3.51	351.36	4,898.75	43.81	-6.66	387,434.99	724,112.08	32.063765	-103.743311
5,000.00	3.51	351.36	4,998.57	49.86	-7.57	387,441.04	724,111.16	32.063782	-103.743314
5,100.00		351.36	5,098.38	55.91	-8.49	387,447.08	724,110.24	32.063799	-103.743317
5,200.00		351.36	5,198.19	61.95	-9.41	387,453.13	724,109.33	32.063815	-103.743320
5,300.00	3.51	351.36	5,298.00	68.00	-10.33	387,459.17	724,108.41	32.063832	-103.743323

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 11-T26S-R31E

 Well:
 Shetland 11 Fed 714H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Shetland 11 Fed 714H

RKB @ 3280.30ft RKB @ 3280.30ft

Grid

	Planned Survey	1								
6,500.00 3,51 351.38 5,697.03 80.09 -12,17 387,477.31 72,410.65 32,068382 +103,743331 5,700.00 3,51 351.38 5,597.07 90.21 -14.00 387,483.36 724,104.73 32,068382 +103,743334 5,800.00 3,51 351.36 5,597.07 90.22 -11.49 287,489.36 724,104.73 32,068386 +103,743334 5,800.00 3,51 351.36 5,969.06 70 110.31 -16.76 387,607.54 724,101.98 22,069396 +103,743343 6,000.00 3,51 351.36 5,969.08 110.31 -11.67 387,507.54 724,101.98 22,069346 +103,743343 6,000.00 3,51 351.36 6,969.51 118.36 +17.67 387,507.54 724,101.98 22,069346 +103,743343 6,000.00 3,51 351.36 6,395.31 118.24 +19.51 387,519.56 724,099.22 32,069366 +103,743343 6,000.00 3,51 351.36 6,395.31 114.04 42,14 387,513.72 724,007.39	Depth			Depth			Northing	Easting	Latitude	Longitude
5,600.00 3,51 351.36 5,597.44 881.3 -13.08 387,477.31 724,105.65 32,063882 -103,743334 5,800.00 3,51 351.36 5,597.07 90.22 -14.92 387,489.36 724,103.82 32,063986 103,743334 5,800.00 3,51 351.36 5,598.76 110.31 -16.76 387,501.49 724,103.82 32,063948 -103,743340 6,000.00 3,51 351.36 5,598.76 110.34 -16.76 387,501.49 724,101.88 32,063948 -103,743340 6,000.00 3,51 351.36 6,096.51 110.36 -17.67 387,501.49 724,101.88 32,063948 -103,743346 6,200.00 3,51 351.36 6,096.51 110.36 -18.59 387,513.59 724,101.14 32,063968 -103,743346 6,200.00 3,51 351.36 6,096.51 128,45 -19.51 387,513.59 724,101.14 32,063988 -103,743346 6,200.00 3,51 351.36 6,096.51 128,45 -19.51 387,513.59 724,100.14 32,063988 -103,743346 6,500.00 3,51 351.36 6,396.95 140,54 -19.51 387,525.67 724,096.22 32,064015 -103,743346 6,500.00 3,51 351.36 6,396.95 140,54 -21.35 387,525.67 724,096.21 32,064015 -103,743356 6,500.00 3,51 351.36 6,396.55 152,63 -22.27 387,537.76 724,096.47 32,064088 -103,743366 6,000.00 3,51 351.36 6,396.55 152,63 -22.27 387,537.76 724,096.47 32,064088 -103,743366 6,000.00 3,51 351.36 6,396.50 152,63 -22.27 387,537.76 724,096.47 32,064088 -103,743366 6,000.00 3,51 351.36 6,396.50 152,63 -22.27 387,537.76 724,096.47 32,064088 -103,743366 6,000.00 3,51 351.36 6,396.50 152,63 -22.27 387,537.76 724,096.47 32,06408 -103,743366 6,000.00 3,51 351.36 6,396.50 156,80 -24.10 387,549.36 724,000.72 32,06408 -103,743366 6,000.00 3,51 351.36 6,396.50 156,80 -24.10 387,549.36 724,000.72 32,06408 -103,743366 6,000.00 3,51 351.36 6,396.50 724,000.00 3,51 351.36 6,396.50 724,000.00 3,51 351.36 6,396.50 724,000.00 3,51 351.36 6,396.50 724,000.00 3,51 351.36 6,396.50 724,000.00 3,5	5,400.00	3.51	351.36	5,397.82	74.04	-11.25	387,465.22	724,107.49	32.063848	-103.743326
6,500.00 3,51 351,36 5,697.20 92,18 -14,00 387,483,38 724,104,73 32,063988 1-103,743334 6,500.00 3,51 351,36 5,890,70 36,22 -14,92 387,489,49 724,102,90 32,063932 -103,743340 6,000.00 3,51 351,36 5,996,70 110,31 -16,76 387,501,49 724,101,98 22,063988 -103,743346 6,000.00 3,51 351,36 6,966,51 116,36 -17,67 387,501,49 724,101,06 32,063998 -103,743346 6,000.00 3,51 351,36 6,196,52 122,40 -19,51 387,515,89 724,090,22 32,063998 -103,743346 6,500.00 3,51 351,36 6,365,55 146,58 -22,27 387,525,67 724,099,32 32,064048 -103,743346 6,500.00 3,51 351,36 6,365,55 146,58 -22,27 387,537,76 -724,096,47 32,064048 -103,743366 6,800.00 3,51 351,36 6,365,50 <td>5,500.00</td> <td>3.51</td> <td>351.36</td> <td>5,497.63</td> <td>80.09</td> <td>-12.17</td> <td>387,471.27</td> <td>724,106.57</td> <td>32.063865</td> <td>-103.743328</td>	5,500.00	3.51	351.36	5,497.63	80.09	-12.17	387,471.27	724,106.57	32.063865	-103.743328
6,800.00 3,51 351,36 5,890.00 3,51 351,36 5,896.88 104,27 -15,84 387,495.48 -724,102.90 32,063915 1,03,743340 6,000.00 3,51 351,36 5,996.70 110,31 -16,76 387,507.54 -724,101.99 32,063948 1,03,743340 6,200.00 3,51 351,36 6,966.51 110,36 -17,67 387,507.54 724,101.09 32,063998 1,03,743340 6,200.00 3,51 351,36 6,963.13 128,45 -19,51 387,515.89 724,100.14 32,063998 1103,743357 6,500.00 3,51 351,36 6,965.76 140,54 -21,35 387,515.89 724,100.61 32,064015 -103,743357 6,500.00 3,51 351,36 6,965.76 140,54 -21,35 387,515.89 724,096.31 32,064015 -103,743336 6,600.00 3,51 351,36 6,965.90 126,22 387,537.76 724,096.95 32,040408 103,743386 6,800.00 3,51	5,600.00	3.51	351.36	5,597.44	86.13	-13.08	387,477.31	724,105.65	32.063882	-103.743331
5,900.00 3,51 351,36 5,996,88 104,27 -15,84 387,495,45 724,102,90 32,063932 103,743340 6,000.00 3,51 351,36 5,996,70 110,31 -16,76 387,501,46 724,101,96 32,063965 103,743346 6,200.00 3,51 351,36 6,996,51 116,36 -17,67 387,507,54 724,101,06 32,063965 103,743346 6,200.00 3,51 351,36 6,996,52 122,40 -18,59 387,515,86 724,100,14 32,063968 103,743346 6,200.00 3,51 351,36 6,996,59 134,49 -20,43 387,518,63 724,096,22 32,063988 103,743351 6,500.00 3,51 351,36 6,956,55 146,54 -19,51 387,516,83 724,096,22 32,063098 103,743351 6,500.00 3,51 351,36 6,955,57 145,58 -22,27 387,575,40 724,097,39 32,064015 103,743356 6,700.00 3,51 351,36 6,955,57 145,58 -22,27 387,537,76 724,096,47 -24,	5,700.00		351.36	5,697.26			387,483.36	724,104.73		
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8,700.00 3.51 351.36 8,691.64 273.54 -41.55 387,664.71 724,077.19 32.064397 -103.743420 8,800.00 3.51 351.36 8,791.46 279.58 -42.47 387,670.76 724,076.27 32.064431 -103.743423 8,900.00 3.51 351.36 8,891.27 285.63 -43.39 387,676.80 724,075.35 32.064431 -103.743426 9,000.00 3.51 351.36 8,991.08 291.67 -44.30 387,682.85 724,073.51 32.064447 -103.743429 9,100.00 3.51 351.36 9,990.89 297.72 -45.22 387,688.90 724,073.51 32.064464 -103.743434 9,200.00 3.51 351.36 9,190.71 303.76 -46.14 387,694.94 724,072.60 32.064480 -103.7434343 9,400.00 3.51 351.36 9,290.52 309.81 -47.06 387,707.03 724,071.68 32.064497 -103.743443 9,500.00 3.51 351.36 9,490.15 <td>8,500.00</td> <td>3.51</td> <td>351.36</td> <td>8,492.02</td> <td>261.45</td> <td>-39.71</td> <td>387,652.62</td> <td>724,079.02</td> <td>32.064364</td> <td>-103.743414</td>	8,500.00	3.51	351.36	8,492.02	261.45	-39.71	387,652.62	724,079.02	32.064364	-103.743414
8,800.00 3.51 351.36 8,791.46 279.58 -42.47 387,670.76 724,076.27 32.064414 -103.743423 8,900.00 3.51 351.36 8,891.27 295.63 -43.39 387,676.80 724,075.35 32.064431 -103.743426 9,000.00 3.51 351.36 8,991.08 291.67 -44.30 387,682.85 724,074.43 32.064447 -103.743429 9,100.00 3.51 351.36 9,090.89 297.72 -45.22 387,688.90 724,073.51 32.064464 -103.743431 9,200.00 3.51 351.36 9,190.71 303.76 -46.14 387,694.94 724,072.60 32.064480 -103.743437 9,400.00 3.51 351.36 9,290.52 309.81 -47.06 387,700.99 724,071.68 32.064497 -103.743443 9,500.00 3.51 351.36 9,490.15 321.90 -49.80 387,713.08 724,070.76 32.064514 -103.743441 9,500.00 3.51 351.36 9,589.96 327.94 -49.81 387,719.12 724,068.92 32.064530 -103.	8,600.00	3.51	351.36	8,591.83	267.49	-40.63	387,658.67	724,078.10	32.064381	-103.743417
8,900.00 3.51 351.36 8,891.27 285.63 -43.39 387,676.80 724,075.35 32.064431 -103.743426 9,000.00 3.51 351.36 8,991.08 291.67 -44.30 387,682.85 724,074.43 32.064447 -103.743429 9,100.00 3.51 351.36 9,090.89 297.72 -45.22 387,688.90 724,073.51 32.064464 -103.743431 9,200.00 3.51 351.36 9,190.71 303.76 -46.14 387,694.94 724,072.60 32.064480 -103.743437 9,300.00 3.51 351.36 9,290.52 309.81 -47.06 387,700.99 724,071.68 32.064497 -103.743437 9,400.00 3.51 351.36 9,390.33 315.85 -47.98 387,707.03 724,070.76 32.064547 -103.743444 9,500.00 3.51 351.36 9,490.15 321.90 -48.90 387,713.08 724,069.84 32.064530 -103.743443 9,600.00 3.51 351.36 9,689.77 333.99 -50.73 387,725.17 724,068.92 32.064547 -103.	8,700.00	3.51	351.36	8,691.64	273.54	-41.55	387,664.71	724,077.19	32.064397	-103.743420
9,000.00 3.51 351.36 8,991.08 291.67 -44.30 387,682.85 724,074.43 32.064447 -103.743429 9,100.00 3.51 351.36 9,090.89 297.72 -45.22 387,688.90 724,073.51 32.064464 -103.743431 9,200.00 3.51 351.36 9,190.71 303.76 -46.14 387,694.94 724,072.60 32.064480 -103.743434 9,300.00 3.51 351.36 9,290.52 309.81 -47.06 387,700.99 724,071.68 32.064497 -103.743437 9,400.00 3.51 351.36 9,390.33 315.85 -47.98 387,707.03 724,070.76 32.064514 -103.743443 9,500.00 3.51 351.36 9,390.33 315.85 -47.98 387,707.03 724,070.76 32.064514 -103.743443 9,500.00 3.51 351.36 9,599.66 327.94 -48.90 387,713.08 724,069.84 32.064530 -103.743444 9,700.00 3.51 351.36 9,589.96 327.94 -49.81 387,719.12 724,068.92 32.064547 -103.743449 9,800.00 3.51 351.36 9,689.77 333.99 -50.73 387,725.17 724,068.00 32.064564 -103.743449 9,800.00 3.51 351.36 9,789.58 340.03 -51.65 387,731.21 724,067.09 32.064580 -103.743451 9,900.00 3.51 351.36 9,889.40 346.08 -52.57 387,737.26 724,066.17 32.064597 -103.743454 10,000.00 3.51 351.36 10,288.84 364.22 -55.32 387,743.30 724,065.25 32.064630 -103.743460 10,200.00 3.51 351.36 10,288.65 370.26 -56.24 387,761.44 724,062.49 32.064630 -103.743466 10,400.00 3.51 351.36 10,388.46 376.31 -57.16 387,755.39 724,066.15 32.064663 -103.743466 10,400.00 3.51 351.36 10,388.46 376.31 -57.16 387,755.39 724,066.15 32.064663 -103.743469 10,500.00 3.51 351.36 10,388.46 376.31 -58.08 387,775.53 724,066.15 32.064663 -103.743469 10,500.00 3.51 351.36 10,388.46 376.31 -57.16 387,767.48 724,065.28 32.064663 -103.743469 10,500.00 3.51 351.36 10,388.46 376.31 -57.16 387,767.48 724,065.58 32.064680 -103.743469 10,500.00 3.51 351.36 10,388.46 376.31 -57.16 387,767.48 724,065.68 32.064671 -103.743469 10,500.00 3.51 351.36 10,488.27 382.35 -58.08 387,775.57 724,065.66 32.064671 -103.743474 10,600.00 3.39 351.36 10,588.09 388.39 -59.00 387,779.57 724,059.74 32.064713 -103.743474 10,600.00 3.39 351.36 10,588.09 388.39 -59.00 387,779.57 724,059.74 32.064713 -103.743474	8,800.00	3.51	351.36	8,791.46	279.58	-42.47	387,670.76	724,076.27	32.064414	-103.743423
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9,300.00 3.51 351.36 9,290.52 309.81 -47.06 387,700.99 724,071.68 32.064497 -103.743437 9,400.00 3.51 351.36 9,390.33 315.85 -47.98 387,707.03 724,070.76 32.064514 -103.743440 9,500.00 3.51 351.36 9,490.15 321.90 -48.90 387,713.08 724,069.84 32.064530 -103.743443 9,600.00 3.51 351.36 9,589.96 327.94 -49.81 387,719.12 724,068.92 32.064547 -103.743446 9,700.00 3.51 351.36 9,689.77 333.99 -50.73 387,725.17 724,068.92 32.064564 -103.743449 9,800.00 3.51 351.36 9,789.58 340.03 -51.65 387,731.21 724,067.09 32.064580 -103.743451 9,900.00 3.51 351.36 9,889.40 346.08 -52.57 387,737.26 724,066.17 32.064597 -103.743451 10,000.00 3.51 351.36 10,089.02 358.17 -54.41 387,743.30 724,066.17 32.064631 -10										
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Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 11-T26S-R31E

 Well:
 Shetland 11 Fed 714H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Shetland 11 Fed 714H

RKB @ 3280.30ft RKB @ 3280.30ft

Grid

Planned Survey									
Measured	la alia ati a a	A = !4h-	Vertical	. N/ O	. = / \	Map	Map		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
10,800.00	0.39	351.36	10,787.96	394.91	-59.99	387,786.09	724,058.75	32.064731	-103.743477
10,826.04	0.00	0.00	10,814.00	395.00	-60.00	387,786.18	724,058.74	32.064731	-103.743477
10,900.00	0.00	0.00	10,887.96	395.00	-60.00	387,786.18	724,058.74	32.064731	-103.743477
11,000.00	0.00	0.00	10,987.96	395.00	-60.00	387,786.18	724,058.74	32.064731	-103.743477
11,100.00	0.00	0.00	11,087.96	395.00	-60.00	387,786.18	724,058.74	32.064731	-103.743477
11,176.08	0.00	0.00	11,164.04	395.00	-60.00	387,786.18	724,058.74	32.064731	-103.743477
_	l1176' MD, 50'	•							
11,200.00	2.39	179.72	11,187.95	394.50	-60.00	387,785.68	724,058.74	32.064730	-103.743477
11,300.00	12.39	179.72	11,286.99	381.65	-59.94	387,772.83	724,058.80	32.064695	-103.743477
11,400.00	22.39	179.72	11,382.30	351.80	-59.79	387,742.98	724,058.95	32.064613	-103.743477
11,500.00	32.39	179.72	11,470.98	305.85	-59.57	387,697.03	724,059.17	32.064486	-103.743478
11,600.00	42.39	179.72 179.72	11,550.33	245.20	-59.27	387,636.38	724,059.46	32.064320	-103.743478
11,700.00 11,769.00	52.39 59.29	179.72	11,617.94 11,656.66	171.70 114.64	-58.91 -58.64	387,562.88 387,505.82	724,059.82 724,060.10	32.064118 32.063961	-103.743478 -103.743478
				114.04	-36.04	367,303.62	724,000.10	32.003901	-103.743476
11,800.00	1769' MD, 330 62.39	179.72	11,671.76	87.57	-58.50	387,478.75	724,060.23	32.063886	-103.743478
11,900.00	72.39	179.72	11,710.15	-4.63	-58.06	387,386.55	724,060.68	32.063633	-103.743478
12,000.00	82.39	179.72	11,731.95	-102.09	-57.58	387,289.09	724,061.15	32.063365	-103.743478
12,076.09	90.00	179.72	11,737.00	-177.95	-57.21	387,213.23	724,061.52	32.063156	-103.743478
12,100.00	90.00	179.72	11,737.00	-201.87	-57.10	387,189.31	724,061.64	32.063091	-103.743479
12,200.00	90.00	179.72	11,737.00	-301.86	-56.61	387,089.31	724,062.13	32.062816	-103.743479
12,300.00	90.00	179.72	11,737.00	-401.86	-56.12	386,989.32	724,062.61	32.062541	-103.743479
12,400.00	90.00	179.72	11,737.00	-501.86	-55.64	386,889.32	724,063.10	32.062266	-103.743479
12,500.00	90.00	179.72	11,737.00	-601.86	-55.15	386,789.32	724,063.58	32.061991	-103.743479
12,600.00	90.00	179.72	11,737.00	-701.86	-54.66	386,689.32	724,064.07	32.061716	-103.743479
12,700.00	90.00	179.72	11,737.00	-801.86	-54.18	386,589.32	724,064.56	32.061441	-103.743480
12,800.00	90.00	179.72	11,737.00	-901.86	-53.69	386,489.32	724,065.04	32.061167	-103.743480
12,900.00	90.00	179.72	11,737.00	-1,001.86	-53.21	386,389.32	724,065.53	32.060892	-103.743480
13,000.00	90.00	179.72	11,737.00	-1,101.86	-52.72	386,289.33	724,066.02	32.060617	-103.743480
13,100.00	90.00	179.72	11,737.00	-1,201.85	-52.23	386,189.33	724,066.50	32.060342	-103.743480
13,200.00	90.00	179.72	11,737.00	-1,301.85	-51.75	386,089.33	724,066.99	32.060067	-103.743481
13,300.00	90.00	179.72	11,737.00	-1,401.85	-51.26	385,989.33	724,067.48	32.059792	-103.743481
13,400.00	90.00	179.72	11,737.00	-1,501.85	-50.77	385,889.33	724,067.96	32.059517	-103.743481
13,500.00	90.00	179.72	11,737.00	-1,601.85	-50.29	385,789.33	724,068.45	32.059242	-103.743481
13,600.00	90.00	179.72	11,737.00	-1,701.85	-49.80	385,689.33	724,068.94	32.058967	-103.743481
13,700.00	90.00	179.72	11,737.00	-1,801.85	-49.31	385,589.34	724,069.42	32.058693	-103.743482
13,800.00	90.00	179.72	11,737.00	-1,901.85	-48.83	385,489.34	724,069.91	32.058418	-103.743482
13,900.00	90.00	179.72	11,737.00	-2,001.84	-48.34	385,389.34	724,070.39	32.058143	-103.743482
14,000.00	90.00	179.72	11,737.00	-2,101.84	-47.86	385,289.34	724,070.88	32.057868	-103.743482
14,100.00	90.00	179.72	11,737.00	-2,201.84	-47.37	385,189.34 385,089.34	724,071.37	32.057593	-103.743482
14,200.00 14,300.00	90.00 90.00	179.72 179.72	11,737.00	-2,301.84	-46.88 -46.40	385,089.34	724,071.85 724,072.34	32.057318 32.057043	-103.743483 -103.743483
14,400.00		179.72	11,737.00 11,737.00	-2,401.84 2,501.84	-45.91	384,889.34	724,072.83	32.056768	-103.743483
14,500.00	90.00 90.00	179.72	11,737.00	-2,501.84 -2,601.84	-45.91 -45.42	384,789.35	724,072.83	32.056493	-103.743483
14,600.00		179.72	11,737.00	-2,701.84	-44.94	384,689.35	724,073.80	32.056219	-103.743483
14,700.00	90.00	179.72	11,737.00	-2,801.84	-44.45	384,589.35	724,074.29	32.055944	-103.743484
14,800.00	90.00	179.72	11,737.00	-2,901.83	-43.96	384,489.35	724,074.77	32.055669	-103.743484
14,900.00	90.00	179.72	11,737.00	-3,001.83	-43.48	384,389.35	724,075.26	32.055394	-103.743484
15,000.00	90.00	179.72	11,737.00	-3,101.83	-42.99	384,289.35	724,075.74	32.055119	-103.743484
15,100.00	90.00	179.72	11,737.00	-3,201.83	-42.51	384,189.35	724,076.23	32.054844	-103.743484
15,200.00		179.72	11,737.00	-3,301.83	-42.02	384,089.36	724,076.72	32.054569	-103.743485
15,300.00	90.00	179.72	11,737.00	-3,401.83	-41.53	383,989.36	724,077.20	32.054294	-103.743485
15,400.00		179.72	11,737.00	-3,501.83	-41.05	383,889.36	724,077.69	32.054019	-103.743485
15,500.00	90.00	179.72	11,737.00	-3,601.83	-40.56	383,789.36	724,078.18	32.053745	-103.743485

Database: EDM r5000.141_Prod US
Company: WCDSC Permian NM

Project: Eddy County (NAD 83 NM Eastern)
Site: Sec 11-T26S-R31E

Well: Shetland 11 Fed 714H
Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Shetland 11 Fed 714H

RKB @ 3280.30ft RKB @ 3280.30ft

Grid

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,600.00	90.00	179.72	11,737.00	-3,701.82	-40.07	383,689.36	724,078.66	32.053470	-103.743485
15,700.00	90.00	179.72	11,737.00	-3,801.82	-39.59	383,589.36	724,079.15	32.053195	-103.743485
15,800.00	90.00	179.72	11,737.00	-3,901.82	-39.10	383,489.36	724,079.64	32.052920	-103.743486
15,900.00	90.00	179.72	11,737.00	-4,001.82	-38.61	383,389.37	724,080.12	32.052645	-103.743486
16,000.00	90.00	179.72	11,737.00	-4,101.82	-38.13	383,289.37	724,080.61	32.052370	-103.743486
16,100.00	90.00	179.72	11,737.00	-4,201.82	-37.64	383,189.37	724,081.09	32.052095	-103.743486
16,200.00	90.00	179.72	11,737.00	-4,301.82	-37.16	383,089.37	724,081.58	32.051820	-103.743486
16,300.00	90.00	179.72	11,737.00	-4,401.82	-36.67	382,989.37	724,082.07	32.051545	-103.743487
16,400.00	90.00	179.72	11,737.00	-4,501.82	-36.18	382,889.37	724,082.55	32.051271	-103.743487
16,466.26	90.00	179.72	11,737.00	-4,568.07	-35.86	382,823.11	724,082.88	32.051088	-103.743487
PBHL &	LTP @ 16466'	MD, 330' FSL	., 990' FEL						
16,466.28	90.00	179.72	11,737.00	-4,568.09	-35.86	382,823.10	724,082.88	32.051088	-103.743487

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 - Shetland 11 Fed - plan misses target - Point	0.00 center by 456	0.00 8.23ft at 0.00	0.00 ft MD (0.00	-4,568.09 TVD, 0.00 N,	-35.86 0.00 E)	382,823.10	724,082.88	32.051088	-103.743487

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coord +N/-S (ft)	dinates +E/-W (ft)	Comment	
11,176.08 11,769.00 16,466.26	11,164.04 11,656.66 11,737.00	395.00 114.64 -4,568.07	-60.00 -58.64 -35.86	KOP @ 11176' MD, 50' FNL, 990' FEL FTP @ 11769' MD, 330' FNL, 990' FEL PBHL & LTP @ 16466' MD, 330' FSL, 990' FEL	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP NMNM089057 LEASE NO.: LOCATION: Section 11, T.26 S., R.31 E., NMPM **COUNTY:** Eddy County, New Mexico WELL NAME & NO.: Shetland 11 Fed 734H **SURFACE HOLE FOOTAGE:** 445'/N & 900'/E **BOTTOM HOLE FOOTAGE** 330'/S & 330'/E WELL NAME & NO.: Shetland 11 Fed 714H SURFACE HOLE FOOTAGE: 445'/N & 930'/E **BOTTOM HOLE FOOTAGE** 330'/S & 990'/E COA No No H2S Yes None Secretary Potash **R**-111-P Cave/Karst Potential **Low** Medium High Cave/Karst Potential Critical None None Flex Hose C Other Variance Conventional Wellhead Multibowl Both □4 String Area □ WIPP Other ☐ Capitan Reef Cement Squeeze Other ▼ Fluid Filled Pilot Hole **✓** COM Special Requirements Water Disposal Unit

OPERATOR IS ONLY APPROVED FOR THE FOLLOWING DESIGN, OTHER DESIGNS SUBMITTED WILL BE VOID.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **North Mason** play. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

Approval Date: 05/27/2020

B. CASING

Alternate Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1010 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 **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. 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 Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.

- 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.
 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

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 **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

Page 3 of 8

GENERAL REQUIREMENTS

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

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

 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. 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. Wait on cement (WOC) for Water Basin: 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 8 hours. 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 (H₂S) Contingency Plan

For

Shetland 11 Fed 714H

Sec-11 T-26S R-31E 445 FNL & 930' FEL LAT. = 32.0636447' N (NAD83) LONG = 103.7432904' W

Eddy County NM

Shetland 11 Fed 714H This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor. **Location Road** Shetland 11 Fed 714H

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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S 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 H₂S.

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

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

7. Well testing:

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

Drilling Su	pervisor – Basin – Mark Kramer	405-823-4796
EHS Profe	essional – Laura Wright	405-439-8129
Agency	Call List	
Lea	Hobbs	
County	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-251
	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	885-313
<u>(575)</u>	City Police	885-211
	Sheriff's Office	887-755°
	Ambulance	91′
	Fire Department	885-312
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-654
	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- 0139	(915) 563-3356
	Halliburton	(575) 746-275
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs (NM and TX)	(800)642-7828
GPS	Flight For Life - Lubbock, TX	(806) 743-991
position:	Aerocare - Lubbock, TX	(806) 747-892
	Med Flight Air Amb - Albuquerque, NM	(575) 842-443
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-122
	Poison Control (24/7)	(575) 272-311
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366

Prepared in conjunction with Dave Small

