Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments 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. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title 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

APPROVED WITH CONDITIONS Released to Imaging: 10/9/2025 10:16:46 AM Approval Date: 08/08/2025

(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENW / 610 FNL / 1790 FWL / TWSP: 25S / RANGE: 31E / SECTION: 34 / LAT: 32.0923225 / LONG: -103.7688222 (TVD: 0 feet, MD: 0 feet) PPP: NENW / 1224 FNL / 2200 FWL / TWSP: 25S / RANGE: 31E / SECTION: 34 / LAT: 32.0906377 / LONG: -103.7674992 (TVD: 9978 feet, MD: 10068 feet) PPP: SESW / 172 FSL / 2187 FWL / TWSP: 25S / RANGE: 31E / SECTION: 22 / LAT: 32.1090232 / LONG: -103.7674119 (TVD: 10265 feet, MD: 17000 feet) BHL: NENW / 20 FNL / 2200 FWL / TWSP: 25S / RANGE: 31E / SECTION: 15 / LAT: 32.1376293 / LONG: -103.7672709 (TVD: 10261 feet, MD: 27402 feet)

BLM Point of Contact

Name: CANDY VIGIL

Title: LLE

Phone: (575) 234-5982

Email: CVIGIL@BLM.GOV

(Form 3160-3, page 3)

ived by	OCD: 10	/3/2025 9:0	5:20 AM							Page 3
<u>C-10</u>						l Resources Depa			Rev	rised July 9, 2024
	Electronical	у		OIL (CONSERVAT	TION DIVISION	1		☐ Initial Submittal	
Via OCI) Permitting							Submittal	☐ Amended Report	
								Type:	☐ As Drilled	сроп
					WELL LOCAT	TON INFORMATIO)N		□ As Difficu	
API Nu	mher		Pool Code		<u> </u>	Pool Name	711			
	30-01	5-57340	Foor Code	97860	1		NGS; BONE S	PRING, W	EST	
Propert	y Code 326158		Property Na	ime LUS	SITANO 34-15	FED COM			Well Number	233Н
OGRID	No. 6137	7	Operator Na	ime DEV	VON ENERGY	PRODUCTION	COMPANY, I	L.P.	Ground Level Elevation	3331.6
Surface	Owner: \square S	tate □Fee □Ti	ribal X Federa	1		Mineral Owner:	□State □Fee □'	Tribal X Fed	eral	
					Surfa	ace Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Long	itude	County
С	34	25S	31E		610 NORTH	1790 WEST	32.0923225°	_	7688222°W	EDDY
		l		ı	Bottom	Hole Location	ı	l .		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Long		County
С	15	25S	31E		20 NORTH	2200 WEST	32.1376291°	N 103.	7672709°W	EDDY
			•		•			•		
Dedicat	ted Acres	es Infill or Defining Well Defining Well API Overlapping Spacing Unit (Y/N) Consoli					Consolidatio	on Code		
200	.00	INFII	LL	PEN	DING	N			С	
Order N	Numbers.	N/A				Well setbacks are	e under Common (Ownership: 🛚	¥Yes □No	
					Kick O	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude			County
С	34	25S	31E		1270 NORTH	2200 WEST	32.0905113°	N 103.	7674993°W	EDDY
					,	ke Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Long		County
С	34	25S	31E		1220 NORTH	2200 WEST	32.0906487°	N 103.	.7674993°W	EDDY
	1	1	I	1		ke Point (LTP)	T			
UL C	Section 15	Township 25S	Range 31E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2200 WEST	Latitude 32.1374093°	Long	itude .7672715°W	County EDDY
	13	238	31E		100 NORTH	2200 WEST	32,13/4093	N 103.	.7072/13 W	EDD1
Unitize	d Area or Ar	ea of Uniform I	nterest	Spacing	Unit Type XHoriz	ontal □Vertical	Grour	nd Floor Elev	ation:	
N								N/A		
OPER A	TOR CERT	IFICATIONS			<u> </u>	SURVEYOR CERT	TEICATIONS			
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best ofmy knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest run leased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order here to fore entered by the division. If this well is a horizontal well, I further certify that this organization has received the				I hereby certify that the surveys made by me on my belief.	he well location shov					

consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

06/24/2025 Amy Brown Printed Name amy.brown@dvn.com

Signature and Seal of Professional Surveyo FILIMON F. JARAMILLO

CertificateNumber Dateof Survey

PLS 12797

JUNE 13, 2025

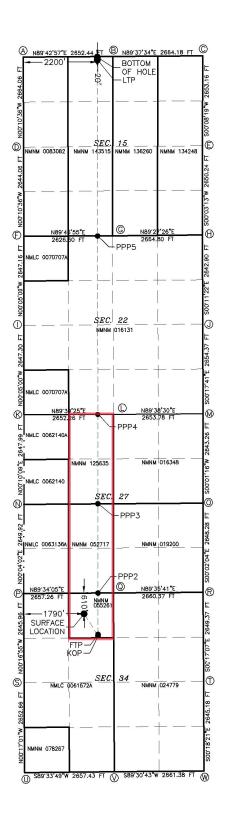
SURVEY NO. 9220B

Note: 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.

Email Address

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



```
LUSITANO 34-15 FED COM 233H
                   EL. = 3331.6
               GEODETIC COORDINATES
                NAD 83 NMSP EAST
               SURFACE LOCATION
610' FNL, 1790' FWL
                   N.=397781.32
                   E.=716154.88
                 LAT.=32.0923225°N
               LONG.=103.7688222°W
   KICK OFF POINT
                                 FIRST TAKE POINT
1270' FNL, 2200' FWL
N.=397124.56
                              1220' FNL, 2200' FWL
N.=397174.55
    E.=716568.02
                                   E.=716567.77
 LAT.=32.0905113°N
                                LAT.=32.0906487°N
LONG.=103.7674993°W
                              LONG.=103.7674993°W
  LAST TAKE POINT
                                 BOTTOM OF HOLE
                                   FNL, 2200' FWL
100' FNL, 2200' FWL
                                20'
    N.=414185.60
                                   N.=414265.59
    E.=716548.96
                                   E.=716548.72
 LAT.=32.1374093°N
                                LAT.=32.1376291°N
LONG.=103.7672715°W
                              LONG.=103.7672709°W
        PPP2
                                       PPP3
 0' FNL, 2205' FWL
                              2649' FSL, 2199' FWL
    N.=398394.31
                                   N.=401042.43
    E.=716566.42
                                   E.=716563.49
 LAT.=32.0940016°N
                                LAT.=32.1012809°N
                              LONG.=103.7674475°W
LONG.=103.7674830°W
 0' FNL, 2188' FWL
                                0' FNL, 2190' FWL
    N = 403687.54
                                   N.=408976.07
    E.=716560.57
                                   E.=716554.73
 LAT.=32.1085519°N
                                LAT.=32.1230892°N
LONG.=103.7674121°W
                              LONG.=103.7673413°W
             CORNER COORDINATES TABLE
                 NAD 83 NMSP EAST
               N.=414274.67 E.=714349.16
N.=414287.82 E.=717000.99
          В
          С
               N.=414305.21 E.=719664.53
          D
               N.=411611.21
                             E.=714357.38
               N.=411652.64 E.=719658.11
           Ε
               N.=408967.74 E.=714365.52
N.=408977.73 E.=716991.53
          G
                             E.=719655.63
               N.=409002.97
               N.=406321.16 E.=714369.37
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E.=719664.36

E.=714373.23

E.=719678.01

E.=714362.31

N.=406360.67

N.=403674.44

N.=403706.92

N.=398377.70

N.=403690.32 E.=717024.86

N.=401027.04 E.=714365.41

N.=401064.23 E.=719677.04

N.=398397.72 E.=717018.91

N.=398416.53 E.=719678.63 N.=395732.35 E.=714375.33

N.=395767.78 E.=719691.82
N.=393080.31 E.=714388.46
N.=393100.55 E.=717045.23
N.=393123.21 E.=719705.93

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<u>C-1</u>	•	9/3/2025-9:0				ral Resources Dep			Rev	vised July 9, 202
	it Electronical	,		OIL	CONSERVA	TION DIVISIO	N		☐ Initial Subm	mittal
Via O	CD Permitting							Submittal		
								Type:	☐ Amended R	Report
									☐ As Drilled	
			T		WELL LOCA	TION INFORMATION	ON			
API Number Pool Code Pool Name PADUCA; BONE SPRING										
Prope	rty Code		Property Na	ame LUS	SITANO 34-1:	5 FED COM			Well Number	233Н
OGRI	^(D) No. 613	7	Operator Na	ame DE	VON ENERG	Y PRODUCTION	COMPANY,	L.P.	Ground Level Elevation	3331.6
Surface Owner: State Fee Tribal XFederal Mineral Owner: State Fee					I					
					Sur	face Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Long	gitude	County
C	34	25S	31E	B1E 610 NORTH		1790 WEST	32.0923225°	_	.7688222°W	EDDY
		.1	.1	I	Botto	m Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Long	gitude	County
C	15	25S	31E		20 NORTH	2200 WEST	32.1376291°	N 103	.7672709°W	EDDY
D. 4:-	ated Acres	I	W/-11	D.f.i.	- W-11 ADI	OIi C	-in- Huit (M/NI)	Consolidati	C- 1-	
					Consolidan					
320.00 INFILL PENDING Order Numbers. N/A			N - 11 41 1	1 C	O 1-1 1	C No.				
Oruci	Nullibers.	N/A				well selbacks at	e under Common	Ownership: J	A res □no	
	T	1	1	T	1	Off Point (KOP)	T			1
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	,	gitude	County
С	34	25S	31E		1270 NORT	H 2200 WEST	32.0905113°N		.7674993°W	EDDY
		T =	T _	Π_		Take Point (FTP)	Γ			1
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	,	gitude	County
С	34	25S	31E		1220 NORT	H 2200 WEST	32.0906487°	N 103	.7674993°W	EDDY
				ı	Last T	Take Point (LTP)				1
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	_	gitude	County
С	15	25S	31E		100 NORTH	2200 WEST	32.1374093°	N 103	.7672715°W	EDDY
Unitiz	zed Area or A	rea of Uniform	Interest	Spacing	Unit Type XHori	izontal □Vertical	Grou	nd Floor Elev	vation:	
N Spacing out Type 23 for izon							N/A			
OPER	ATOR CERT	TFICATIONS				SURVEYOR CERT	TIFICATIONS			
					1					
ofmy ka organi includi locatio interes	nowledge and b zation either ow ing the proposed on pursuant to a	ary pooling agree	vell is a vertical or rest or unleased ution or has a rig owner of a work	or directiona mineral inte ght to drill th ing interest r	l well, that this erest in the land	I hereby certify that to surveys made by me of my belief.				
consen in each	t of at least one to tract (in the ta	lessee or owner o	of a working inte ation) in which a	rest or unlea ny part of th	n has received the used mineral interest ne well's completed n the division.		TO THE			<i>,</i>

06/24/2025

Amy Brown

Printed Name

amy.brown@dvn.com

Email Address

Signature and Seal of Professional Surveyo

FILIMON F. JARAMILLO

CertificateNumber

PLS 12797

Dateof Survey

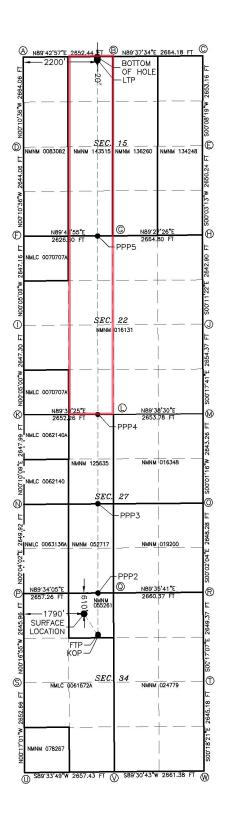
JUNE 13, 2025

SURVEY NO. 9220B

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                                 FIRST TAKE POINT
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                              LONG.=103.7674993°W
  LAST TAKE POINT
                                 BOTTOM OF HOLE
                                  FNL, 2200' FWL
100' FNL, 2200' FWL
                                20'
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                                   N.=414265.59
    E.=716548.96
                                   E.=716548.72
 LAT.=32.1374093°N
                                LAT.=32.1376291°N
LONG.=103.7672715°W
                              LONG.=103.7672709°W
        PPP2
                                       PPP3
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                              2649' FSL, 2199' FWL
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    E.=716566.42
                                   E.=716563.49
 LAT.=32.0940016°N
                                LAT.=32.1012809°N
                              LONG.=103.7674475°W
LONG.=103.7674830°W
 0' FNL, 2188' FWL
                                0' FNL, 2190' FWL
    N = 403687.54
                                  N.=408976.07
    E.=716560.57
                                   E.=716554.73
 LAT.=32.1085519°N
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LONG.=103.7674121°W
                              LONG.=103.7673413°W
             CORNER COORDINATES TABLE
                 NAD 83 NMSP EAST
               N.=414274.67 E.=714349.16
N.=414287.82 E.=717000.99
          В
          С
               N.=414305.21 E.=719664.53
          D
               N.=411611.21
                             E.=714357.38
               N.=411652.64 E.=719658.11
           Ε
               N.=408967.74 E.=714365.52
N.=408977.73 E.=716991.53
          G
                             E.=719655.63
               N.=409002.97
               N.=406321.16 E.=714369.37
                             E.=719664.36
               N.=406360.67
                             E.=714373.23
          K -
               N.=403674.44
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N.=403690.32 E.=717024.86

N.=401027.04 E.=714365.41

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N.=398416.53 E.=719678.63 N.=395732.35 E.=714375.33

N.=395767.78 E.=719691.82
N.=393080.31 E.=714388.46
N.=393100.55 E.=717045.23
N.=393123.21 E.=719705.93

N.=403706.92

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E.=719678.01

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

ERGY PRODUCT	TION COMPANY, LP	OGRID: 61	37	Date:	2 / 1	/2022
] Amendment	due to □ 19.15.27	'.9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NMAC □	Other.	
:						
				wells proposed to	be dril	led or proposed to
API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated oduced Water BBL/D
			ral delivery point. Completion	Initial I	Flow	First Production Date
ices: Attac of 19.15.27.8 I	h a complete desc NMAC. Attach a comple	ription of the ac	tions Operator wil	l take to comply	with th	e requirements of
	API The int Name: Set Provide the ted from a sing API The ices: Attach ices: Attach ices: Attach ices: The ices:	Following information for each ngle well pad or connected to a API ULSTR Wint Name: See attachment E: Provide the following informated from a single well pad or con API Spud Date ent: Attach a complete description of 19.15.27.8 NMAC.	API Spud Date TD Reached Date API Spud Date TD Reached Date	API Spud Date TD Reached Completion Commencement Spud Date TD Reached Commencement API Spud Date TD Reached Commencement Better Spud Date TD Reached Commencement API Spud Date TD Reached Commencement Better S	API ULSTR Footages Anticipated Gas MCF/D Simit Name: See attachment [See It Provide the following information for each new or recompleted well or set of wells proposed to get the following information for each new or recompleted well or set of wells proposed to get the following information for each new or recompleted well or set of wells ted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Initial In Date Commencement Date Back In Date Completed well or set of wells ted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Back In Date Completed well or set of wells ted from a single well pad or connected to a central delivery point.	API Spud Date TD Reached Completion Single well pad or connected to a central delivery point. API Spud Date TD Reached Date Commencement Date Back Date Spud Date Attach a complete description of the actions Operator will size separation equipment to opt the fig. 19.15.27.8 NMAC. Are the practices: Anticipated Anticipated Gas MCF/D Practices: Anticipated Anticipated Gas MCF/D Practices: Anticipated Gas MCF/D Practices Gas MCF/D Practic

NATURAL GAS MANAGEMENT PLAN Section 1 - Plan Description

III. WellEd: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

							Anticipated Anticipated Gas Anticipated Produced
Well Name	Central Delivery Point Name:	API	ULSTR	FOOTA	IGES		Oil BBL/D MCF/D Water BBL/D
Lusitano 27-34 Fed 812H	Lusitano 27 CTB 4		27-25S-31E	1492 FWL	235 FNL	WFMP B100	(+/-)6319mcfd/(+/-)886bopd/(+/-)4728bwpd
Lusitano 27-34 Fed 822H	Lusitano 27 CTB 4		27-25S-31E	1522 FWL	235 FNL	WFMP B200	(+/-)7968mcfd/(+/-)528bopd/(+/-)4567bwpd
Lusitano 27-34 Fed 832H	Lusitano 27 CTB 4		27-25S-31E	1552 FWL	235 FNL	WFMP B300	(+/-)7968mcfd/(+/-)528bopd/(+/-)4567bwpd
Lusitano 27-34 Fed Com 524H	Lusitano 27 CTB 4		27-25S-31E	1905 FEL	385 FNL	AVLN B	(+/-)5663 mcfd/(+/-)1408bopd/(+/-)3169 bwpd
Lusitano 27-34 Fed Com 124H (535H)	Lusitano 27 CTB 4		27-25S-31E	1875 FEL	385 FNL	2BSLT	(+/-)3736mcfd/(+/-)1291bopd/(+/-)5000bwpd
Lusitano 27-34 Fed Com 234H (525H)	Lusitano 27 CTB 4		27-25S-31E	1845 FEL	385 FNL	2BSSS	(+/-) 3749mcfd/(+/-)1384bopd/(+/-)5713bwpd
Lusitano 27-34 Fed Com 526H	Lusitano 27 CTB 4		27-25S-31E	1815 FEL	385 FNL	AVLN B	(+/-)5663 mcfd/(+/-)1408bopd/(+/-)3169 bwpd
Lusitano 27-34 Fed Com 813H	Lusitano 27 CTB 4		27-25S-31E	1754 FEL	235 FNL	WFMP B100	(+/-)6319mcfd/(+/-)886bopd/(+/-)4728bwpd
Lusitano 27-34 Fed Com 823H	Lusitano 27 CTB 4		27-25S-31E	1724 FEL	235 FNL	WFMP B200	(+/-)7968mcfd/(+/-)528bopd/(+/-)4567bwpd
Lusitano 27-34 Fed Com 833H	Lusitano 27 CTB 4		27-25S-31E	1694 FEL	235 FNL	WFMP B300	(+/-)7968mcfd/(+/-)528bopd/(+/-)4567bwpd
Lusitano 27-34 Fed Com 814H	Lusitano 27 CTB 4		27-25S-31E	1034 FEL	235 FNL	WFMP B100	(+/-)6319mcfd/(+/-)886bopd/(+/-)4728bwpd
Lusitano 27-34 Fed Com 824H	Lusitano 27 CTB 4		27-25S-31E	1004 FEL	235 FNL	WFMP B200	(+/-)7968mcfd/(+/-)528bopd/(+/-)4567bwpd
Lusitano 27-34 Fed Com 834H	Lusitano 27 CTB 4		27-25S-31E	974 FEL	235 FNL	WFMP B300	(+/-)7968mcfd/(+/-)528bopd/(+/-)4567bwpd
Lusitano 34-15 Fed 533H	Lusitano 34 CTB 1		34-25S-31E	1730 FWL	610 FNL	AVLN B	(+/-)5663 mcfd/(+/-)1408bopd/(+/-)3169 bwpd
Lusitano 34-15 Fed 123H	Lusitano 34 CTB 1		34-25S-31E	1760 FWL	610 FNL	2BSLT	(+/-)3736mcfd/(+/-)1291bopd/(+/-)5000bwpd
Lusitano 34-15 Fed 233H	Lusitano 34 CTB 1		34-25S-31E	1790 FWL	610 FNL	28555	(+/-) 3749mcfd/(+/-)1384bopd/(+/-)5713bwpd
Lusitano 34-15 Fed 523H	Lusitano 34 CTB 1		34-25S-31E	1820 FWL	610 FNL	AVLN B	(+/-)5663 mcfd/(+/-)1408bopd/(+/-)3169 bwpd

Kanticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

				Completion		First
		i	TD Reached	Commencem	Initial Flow	Production
Well Name	API	Spud Date	Date	ent Date	back Date	Date
Lusitano 27-34 Fed 812H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed 822H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed 832H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 524H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 124H (535H)		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 234H (525H)		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 526H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 813H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 823H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 833H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 814H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 824H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 27-34 Fed Com 834H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 34-15 Fed 533H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 34-15 Fed 123H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 34-15 Fed 233H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023
Lusitano 34-15 Fed 523H		2/11/2023	3/13/2023	7/11/2023	7/11/2023	7/11/2023

*dates above are subject to change

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

Well	Well API		Anticipated Volume of Natural Gas for the First Year MCF		

X. Natural Gas Gathering System (NGGS):

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

- **XI. Map.** \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.
- XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.
- XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).
- ☐ Attach Operator's plan to manage production in response to the increased line pressure.
- XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

(i)

Section 3 - Certifications

Effective May 25, 2021

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

🖾 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. Deperator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.
Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) (b) power generation for grid; compression on lease; (c) (d) liquids removal on lease; (e) reinjection for underground storage; **(f)** reinjection for temporary storage; reinjection for enhanced oil recovery; (g) fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	JW
Printed Name: Lindsey N. Miles	
Title: Land Manager	
E-mail Address:	
Date:	
Phone:	
OIL CONSERVATION DIVISION	
(Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	



VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control
 natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will
 employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas
 produced during well completions that is otherwise vented or flared. If capture is technically
 in-feasible, flares and/or combustors will be used to capture and control flow back fluids
 entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon
 volumes, Devon will turn operations to onsite separation vessels and flow to the gathering
 pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - o Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
 - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



VIII. Best Management Practices during Maintenance

Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

Lusitano 34-15 Fed Com 233H

1. Geologic Formations

TVD of target	10261	Pilot hole depth	N/A
MD at TD:	27402	Deepest expected fresh water	

Basin

Dasin	Donth	Water/Mineral	
F4*	Depth		II
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	868		
Salt	1325		
Base of Salt	4074		
Delaware	4306		
Cherry Canyon	5467		
Brushy Canyon	6680		
1st Bone Spring Lime	8264		
1st Bone Spring Sand	9283		
Bone Spring 2nd	9978		

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

2. Casing Program

		Wt			Casing	Interval	Casing Interval		
Hole Size	Csg. Size	(PPF)	Grade Conn		From (MD)	To (MD)	From (TVD)	To (TVD)	
17 1/2	13 3/8	48	H40	ВТС	0	893	0	893	
12 1/4	9 5/8	40	J-55	ВТС	0	4174	0	4174	
8 3/4	5 1/2	17	P110	ВТС	0	27402	0	10261	

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	685	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	449	Surf	9.0	3.3	Lead: Class C Cement + additives
Int 1	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Y . 1	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Int 1 Intermediate	449	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	520	500' tieback	9.0	3.3	Lead: Class H /C + additives
	3402	КОР	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	30%
Production	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	ype	1	Tested to:		
			An	nular	X	50% of rated working pressure		
Int 1	13-58"	5M	Blin	Blind Ram X				
1111. 1	13-36	JIVI	Pipe	Ram		5M		
					Doub	le Ram	X	JW1
			Other*					
			An	nular	X	50% of rated working pressure		
Production	13-5/8"	5M	Blin	d Ram	X			
Troduction	13-3/6	3101	5M Pipe Ram	5M				
			Doub	le Ram	X	JIV1		
			Other*					
			Annul	ar (5M)				
			Blin	d Ram				
			Pipe	Ram				
			Doub	le Ram				
			Other*					

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)	
Surface	FW Gel	8.5-9	
Intermediate	Brine	10-10.5	
Production	WBM	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

6. Logging and Testing Procedures

Logging,	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	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?	
BH pressure at deepest TVD	4802	
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.

encountered	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).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 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. 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 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

Casing Assumptions and Load Cases

Surface

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

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

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

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

Casing Assumptions and Load Cases

Intermediate

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

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

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

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

Casing Assumptions and Load Cases

Production

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

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

Production Casing Collapse Design									
Load Case External Pressure Internal Pressure									
Full Evacuation	Water gradient in cement, mud 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							

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.



APD ID: 10400083422

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

Submission Date: 02/17/2022

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: LUSITANO 34-15 FED COM Well Number: 233H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical			Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
16193751	UNKNOWN	3335	0	Ö	ALLUVIUM, OTHER : Surface	NONE	N
16193752	RUSTLER	2467	868	868	SANDSTONE	NONE	N
16193756	TOP SALT	2010	1325	1325	SALT	NONE	N
16193754	BASE OF SALT	-739	4074	4074	SALT	NONE	N
16193760	BELL CANYON	-971	4306	4306	SANDSTONE	NATURAL GAS, OIL	N
16193761	CHERRY CANYON	-2132	5467	5467	SANDSTONE	NATURAL GAS, OIL	N
16193762	BRUSHY CANYON	-3345	6680	6680	SANDSTONE	NATURAL GAS, OIL	N
16193763	BONE SPRING LIME	-4929	8264	8264	LIMESTONE	NATURAL GAS, OIL	N
16193753	BONE SPRING	-5948	9283	9283	SANDSTONE	NATURAL GAS, OIL	N
16193750	BONE SPRING 2ND	-6643	9978	9978	SANDSTONE	NATURAL GAS, OIL	Y
16193764	BONE SPRING LIME	-7067	10402	10402	LIMESTONE	NATURAL GAS, OIL	N
16193758	BONE SPRING 3RD	-7860	11195	11195	SANDSTONE	NATURAL GAS	N
16193757	WOLFCAMP	-8321	11656	11656	SANDSTONE	NATURAL GAS, OIL	N
16193759	STRAWN	-10813	14148	14148	LIMESTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

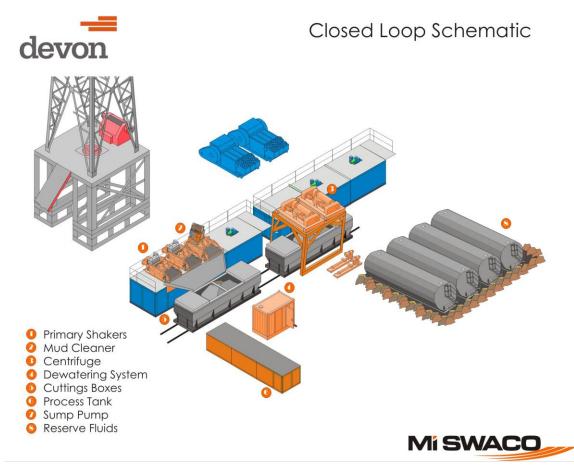
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

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

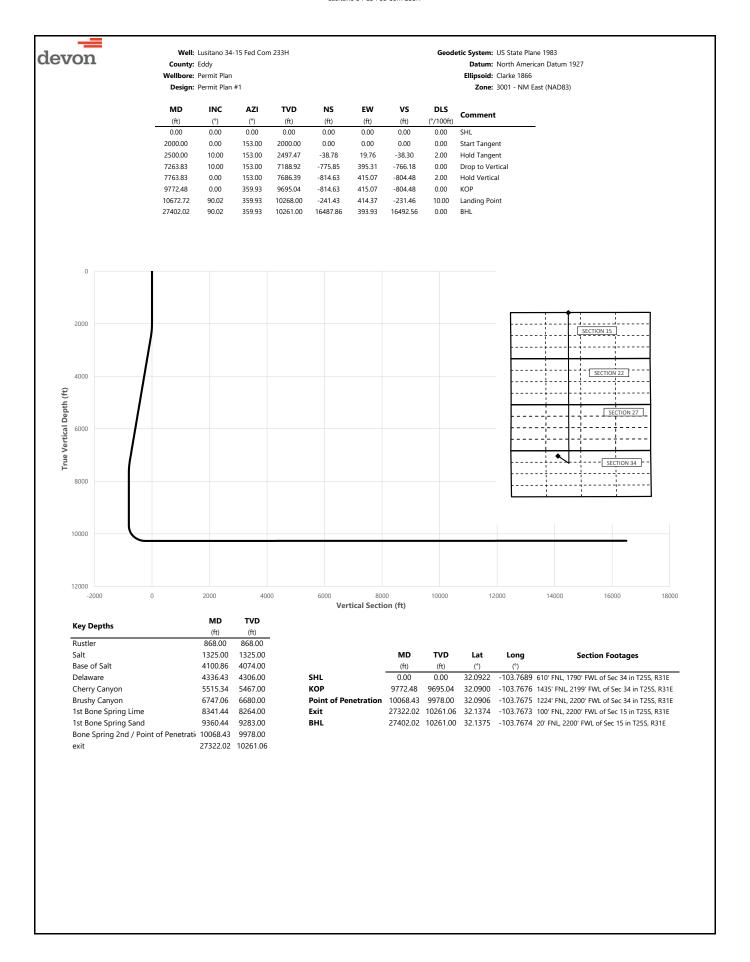
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



dorron		Well:	Lusitano 34	4-15 Fed Con	n 233H				Geodetic System: US State Plane 1983
devon		County:	Eddy						Datum: North American Datum 1927
			Permit Plar Permit Plar						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
		_							
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
_	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
	100.00 200.00	0.00	153.00 153.00	100.00 200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	153.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	153.00	400.00	0.00	0.00	0.00	0.00	
	500.00 600.00	0.00	153.00 153.00	500.00 600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	153.00	700.00	0.00	0.00	0.00	0.00	
	800.00 868.00	0.00	153.00	800.00	0.00	0.00	0.00	0.00	Purtler
	900.00	0.00	153.00 153.00	868.00 900.00	0.00	0.00	0.00	0.00	Rustler
	1000.00	0.00	153.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00 1200.00	0.00	153.00	1100.00 1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	153.00 153.00	1300.00	0.00	0.00	0.00	0.00	
	1325.00	0.00	153.00	1325.00	0.00	0.00	0.00	0.00	Salt
1	1400.00 1500.00	0.00	153.00 153.00	1400.00 1500.00	0.00	0.00	0.00	0.00	
1	1600.00	0.00	153.00 153.00	1600.00	0.00	0.00	0.00	0.00	
1	1700.00	0.00	153.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	153.00	1800.00 1900.00	0.00	0.00	0.00	0.00	
1	1900.00 2000.00	0.00	153.00 153.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
1	2100.00	2.00	153.00	2099.98	-1.55	0.79	-1.54	2.00	
	2200.00	4.00	153.00	2199.84	-6.22	3.17	-6.14 13.01	2.00	
	2300.00 2400.00	6.00 8.00	153.00 153.00	2299.45 2398.70	-13.98 -24.84	7.12 12.66	-13.81 -24.53	2.00 2.00	
	2500.00	10.00	153.00	2497.47	-38.78	19.76	-38.30	2.00	Hold Tangent
	2600.00	10.00	153.00	2595.95	-54.25	27.64	-53.58	0.00	
	2700.00 2800.00	10.00 10.00	153.00 153.00	2694.43 2792.91	-69.72 -85.20	35.53 43.41	-68.85 -84.13	0.00	
	2900.00	10.00	153.00	2891.39	-100.67	51.29	-99.41	0.00	
	3000.00	10.00	153.00	2989.87	-116.14	59.18	-114.69	0.00	
	3100.00 3200.00	10.00 10.00	153.00 153.00	3088.35 3186.83	-131.61 -147.08	67.06 74.94	-129.97 -145.25	0.00	
	3300.00	10.00	153.00	3285.31	-162.56	82.83	-143.23	0.00	
	3400.00	10.00	153.00	3383.79	-178.03	90.71	-175.81	0.00	
	3500.00 3600.00	10.00 10.00	153.00	3482.27 3580.75	-193.50 -208.97	98.59 106.48	-191.09 -206.37	0.00	
	3700.00	10.00	153.00 153.00	3679.23	-224.44	114.36	-221.65	0.00	
	3800.00	10.00	153.00	3777.72	-239.92	122.24	-236.93	0.00	
	3900.00	10.00	153.00	3876.20	-255.39	130.13	-252.21	0.00	
	4000.00 4100.00	10.00 10.00	153.00 153.00	3974.68 4073.16	-270.86 -286.33	138.01 145.89	-267.49 -282.77	0.00	
	4100.86	10.00	153.00	4074.00	-286.47	145.96	-282.90	0.00	Base of Salt
1	4200.00	10.00	153.00	4171.64	-301.81	153.78	-298.05	0.00	
	4300.00 4336.43	10.00 10.00	153.00 153.00	4270.12 4306.00	-317.28 -322.91	161.66 164.53	-313.33 -318.89	0.00	Delaware
	4400.00	10.00	153.00	4368.60	-332.75	169.55	-328.60	0.00	
	4500.00	10.00	153.00	4467.08	-348.22	177.43	-343.88	0.00	
	4600.00 4700.00	10.00 10.00	153.00 153.00	4565.56 4664.04	-363.69 -379.17	185.31 193.20	-359.16 -374.44	0.00	
1	4800.00	10.00	153.00	4762.52	-394.64	201.08	-389.72	0.00	
1	4900.00	10.00	153.00	4861.00	-410.11	208.96	-405.00	0.00	
	5000.00 5100.00	10.00 10.00	153.00 153.00	4959.48 5057.97	-425.58 -441.05	216.85 224.73	-420.28 -435.56	0.00	
1	5200.00	10.00	153.00	5156.45	-456.53	232.61	-450.84	0.00	
	5300.00	10.00	153.00	5254.93	-472.00	240.50	-466.12	0.00	
	5400.00 5500.00	10.00 10.00	153.00 153.00	5353.41 5451.89	-487.47 -502.94	248.38 256.26	-481.40 -496.68	0.00	
1	5515.34	10.00	153.00	5467.00	-505.32	257.47	-499.02	0.00	Cherry Canyon
	5600.00	10.00	153.00	5550.37	-518.42	264.15	-511.96	0.00	
	5700.00 5800.00	10.00 10.00	153.00 153.00	5648.85 5747.33	-533.89 -549.36	272.03 279.91	-527.24 -542.52	0.00	
	5900.00	10.00	153.00	5845.81	-549.36 -564.83	287.80	-542.52 -557.80	0.00	
	6000.00	10.00	153.00	5944.29	-580.30	295.68	-573.08	0.00	
	6100.00	10.00	153.00	6042.77	-595.78	303.56	-588.35	0.00	
1	6200.00 6300.00	10.00 10.00	153.00 153.00	6141.25 6239.73	-611.25 -626.72	311.45 319.33	-603.63 -618.91	0.00	
	6400.00	10.00	153.00	6338.22	-642.19	327.21	-634.19	0.00	

devon		Well:	Lusitano 3	4-15 Fed Com	1 233H				Geodetic System: US State Plane 1983
aevon		County:	Eddy Permit Plan						Datum: North American Datum 1927 Ellipsoid: Clarke 1866
			Permit Plan						Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	
_	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
	6500.00 6600.00	10.00 10.00	153.00 153.00	6436.70 6535.18	-657.66 -673.14	335.10 342.98	-649.47 -664.75	0.00	
	6700.00	10.00	153.00	6633.66	-688.61	350.87	-680.03	0.00	
	6747.06	10.00	153.00	6680.00	-695.89	354.58	-687.22	0.00	Brushy Canyon
	6800.00 6900.00	10.00 10.00	153.00 153.00	6732.14 6830.62	-704.08 -719.55	358.75 366.63	-695.31 -710.59	0.00	
	7000.00	10.00	153.00	6929.10	-735.02	374.52	-725.87	0.00	
	7100.00	10.00	153.00	7027.58	-750.50	382.40	-741.15	0.00	
	7200.00 7263.83	10.00 10.00	153.00 153.00	7126.06 7188.92	-765.97 -775.85	390.28 395.31	-756.43 -766.18	0.00	Drop to Vertical
	7300.00	9.28	153.00	7224.58	-773.03	398.06	-771.51	2.00	Drop to Vertical
	7400.00	7.28	153.00	7323.53	-794.07	404.60	-784.18	2.00	
	7500.00	5.28	153.00	7422.93	-803.81	409.56	-793.80	2.00	
	7600.00 7700.00	3.28 1.28	153.00 153.00	7522.65 7622.56	-810.45 -813.99	412.95 414.75	-800.36 -803.85	2.00 2.00	
1	7763.83	0.00	153.00	7686.39	-814.63	415.07	-804.48	2.00	Hold Vertical
1	7800.00	0.00	359.93	7722.56	-814.63	415.07	-804.48	0.00	
	7900.00 8000.00	0.00	359.93 359.93	7822.56 7922.56	-814.63 -814.63	415.07 415.07	-804.48 -804.48	0.00	
	8100.00	0.00	359.93	7922.56 8022.56	-814.63 -814.63	415.07	-804.48 -804.48	0.00	
1	8200.00	0.00	359.93	8122.56	-814.63	415.07	-804.48	0.00	
	8300.00	0.00	359.93	8222.56	-814.63	415.07	-804.48	0.00	
	8341.44 8400.00	0.00	359.93 359.93	8264.00 8322.56	-814.63 -814.63	415.07 415.07	-804.48 -804.48	0.00	1st Bone Spring Lime
	8500.00	0.00	359.93	8422.56	-814.63	415.07	-804.48	0.00	
	8600.00	0.00	359.93	8522.56	-814.63	415.07	-804.48	0.00	
	8700.00 8800.00	0.00	359.93	8622.56 8722.56	-814.63	415.07	-804.48	0.00	
	8900.00	0.00	359.93 359.93	8822.56	-814.63 -814.63	415.07 415.07	-804.48 -804.48	0.00	
	9000.00	0.00	359.93	8922.56	-814.63	415.07	-804.48	0.00	
	9100.00	0.00	359.93	9022.56	-814.63	415.07	-804.48	0.00	
	9200.00 9300.00	0.00	359.93 359.93	9122.56 9222.56	-814.63 -814.63	415.07 415.07	-804.48 -804.48	0.00	
	9360.44	0.00	359.93	9283.00	-814.63	415.07	-804.48	0.00	1st Bone Spring Sand
	9400.00	0.00	359.93	9322.56	-814.63	415.07	-804.48	0.00	
	9500.00 9600.00	0.00	359.93 359.93	9422.56 9522.56	-814.63 -814.63	415.07 415.07	-804.48 -804.48	0.00	
	9700.00	0.00	359.93	9622.56	-814.63	415.07	-804.48	0.00	
	9772.48	0.00	359.93	9695.04	-814.63	415.07	-804.48	0.00	KOP
	9800.00	2.75	359.93	9722.55	-813.96	415.07	-803.82	10.00	
	9900.00 10000.00	12.75 22.75	359.93 359.93	9821.51 9916.63	-800.49 -770.04	415.05 415.02	-790.35 -759.91	10.00 10.00	
	10068.43	29.59	359.93	9978.00	-739.88	414.98	-729.76	10.00	Bone Spring 2nd / Point of Penetration
	10100.00	32.75	359.93	10005.01	-723.54	414.96	-713.42	10.00	
	10200.00 10300.00	42.75 52.75	359.93 359.93	10083.98 10151.13	-662.39 -588.46	414.89 414.79	-652.29 -578.39	10.00 10.00	
	10400.00	62.75	359.93	10204.42	-504.00	414.79	-493.95	10.00	
	10500.00	72.75	359.93	10242.23	-411.56	414.58	-401.54	10.00	
	10600.00 10672.72	82.75 90.02	359.93 359.93	10263.42 10268.00	-313.96 -241.43	414.46 414.37	-303.97 -231.46	10.00 10.00	Landing Point
	10672.72	90.02	359.93	10268.00	-241.43	414.37	-231.46	0.00	Landing Forth
	10800.00	90.02	359.93	10267.95	-114.15	414.22	-104.23	0.00	
	10900.00	90.02	359.93	10267.91	-14.15 85.85	414.09	-4.26 95.71	0.00	
1	11000.00 11100.00	90.02 90.02	359.93 359.93	10267.86 10267.82	85.85 185.85	413.97 413.85	95.71 195.68	0.00	
1	11200.00	90.02	359.93	10267.78	285.85	413.72	295.65	0.00	
1	11300.00	90.02	359.93	10267.74	385.85	413.60	395.62	0.00	
	11400.00 11500.00	90.02 90.02	359.93 359.93	10267.70 10267.65	485.85 585.85	413.48 413.36	495.59 595.55	0.00	
	11600.00	90.02	359.93	10267.61	685.85	413.23	695.52	0.00	
	11700.00	90.02	359.93	10267.57	785.85	413.11	795.49	0.00	
	11800.00	90.02	359.93	10267.53 10267.49	885.85	412.99	895.46	0.00	
	11900.00 12000.00	90.02 90.02	359.93 359.93	10267.49	985.85 1085.85	412.87 412.74	995.43 1095.40	0.00	
1	12100.00	90.02	359.93	10267.40	1185.85	412.62	1195.36	0.00	
1	12200.00	90.02	359.93	10267.36	1285.85	412.50	1295.33	0.00	
1	12300.00 12400.00	90.02 90.02	359.93 359.93	10267.32 10267.28	1385.85 1485.85	412.38 412.25	1395.30 1495.27	0.00	
1	12500.00	90.02	359.93	10267.24	1585.85	412.23	1595.24	0.00	
	12600.00	90.02	359.93	10267.20	1685.85	412.01	1695.21	0.00	
<u> </u>									

Well: Lusitano 34-15 Fed Com 233H Geodetic System: US State Plane 1983 devon County: Eddy Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Wellbore: Permit Plan Design: Permit Plan #1 Zone: 3001 - NM East (NAD83) MD INC AZI TVD NS EW VS DLS Comment (°) (ft) (ft) (ft) (°/100ft 12700.00 10267.15 1785.85 411.88 1795.18 90.02 0.00 12800.00 90.02 359.93 10267.11 1885.85 411.76 1895.14 0.00 12900.00 90.02 359.93 10267.07 1985.85 411.64 1995.11 0.00 13000.00 90.02 359.93 10267.03 2095.08 359.93 13200.00 90.02 359.93 10266.95 2285.85 411.27 2295.02 0.00 13300.00 90.02 359.93 10266.90 2385.85 411.15 2394.99 13400.00 90.02 359.93 10266.86 2485.85 411.03 2494.95 0.00 13500.00 90.02 359 93 10266.82 2585.85 410 90 2594 92 0.00 13600.00 90.02 359.93 10266.78 2685.85 410.78 2694.89 0.00 2785.85 13700.00 90.02 359.93 10266.74 410.66 2794.86 0.00 13800.00 90.02 359.93 10266.70 2885.85 410.53 2894.83 0.00 13900.00 90.02 359.93 10266.65 2985.85 410.41 2994.80 0.00 14000.00 90.02 359.93 10266.61 3085.85 410.29 3094.77 0.00 14100.00 90.02 359.93 10266.57 3185.85 410.17 3194.73 0.00 14200.00 359.93 10266.53 3294.70 14300.00 359.93 10266.49 3385.84 409.92 3394.67 0.00 14400.00 90.02 359.93 10266.45 3485.84 409.80 3494.64 0.00 14500.00 90.02 359.93 10266.40 3585.84 409.68 3594.61 0.00 14600.00 90.02 359.93 10266.36 3685.84 409.55 3694.58 0.00 14700 00 90.02 359 93 10266 32 3785 84 409 43 3794 54 0.00 14800.00 90.02 359.93 10266.28 3885.84 409.31 3894.51 0.00 14900.00 90.02 359.93 10266.24 3985.84 409.18 3994.48 0.00 15000.00 359.93 10266.20 4085.84 4094.45 90.02 409.06 0.00 15100.00 90.02 359.93 10266.15 4185.84 408.94 4194.42 0.00 15200.00 90.02 359.93 10266.11 4285.84 408.82 4294.39 359.93 10266.07 4385.84 4394.36 15300.00 408.69 15400.00 359.93 10266.03 4485.84 408.57 4494.32 0.00 90.02 15500.00 90.02 359.93 10265.99 4585.84 408.45 4594.29 0.00 15600.00 90.02 359.93 10265.94 4685.84 408.33 4694.26 0.00 15700.00 90.02 359.93 10265.90 4785.84 408.20 4794.23 0.00 15800.00 90.02 359.93 10265.86 4885.84 408.08 4894.20 0.00 15900.00 90.02 359.93 10265.82 4985.84 407.96 4994.17 0.00 16000.00 90.02 359.93 10265.78 5085.84 407.84 5094.13 0.00 16100.00 359.93 10265.74 5185.84 90.02 407.71 5194.10 0.00 16200.00 90.02 359.93 10265.69 5285.84 407.59 5294.07 0.00 16300.00 90.02 359.93 10265.65 5385.84 407.47 5394.04 0.00 16400.00 90.02 359.93 10265.61 5494.01 16500.00 90.02 359.93 10265.57 5585.84 407.22 5593.98 0.00 16600.00 90.02 359.93 10265.53 5685.84 407.10 5693.94 16700.00 90.02 359.93 10265.49 5785.84 406.98 5793.91 0.00 16800.00 90.02 359 93 1026544 5885 84 406.85 5893 88 0.00 16900.00 90.02 359.93 10265.40 5985.84 406.73 5993.85 0.00 17000.00 90.02 359.93 10265.36 6085.84 406.61 6093.82 0.00 17100.00 359.93 6185.84 6193.79 90.02 10265.32 406.49 0.00 17200.00 90.02 359.93 10265.28 6285.84 406.36 6293.76 0.00 17300.00 359.93 10265.24 6385.84 406.24 90.02 6393.72 0.00 17400.00 359.93 10265.19 6485.84 406.12 6493.69 0.00 90.02 17500.00 90.02 359.93 6593.66 17600.00 359.93 10265.11 6685.84 6693.63 0.00 17700.00 90.02 359.93 10265.07 6785.84 405.75 6793.60 0.00 17800.00 90.02 359.93 10265.03 6885.84 405.63 6893.57 0.00 17900.00 90.02 359.93 10264.99 6985.84 405.50 6993.53 0.00 18000.00 90.02 359.93 10264.94 7085.84 405.38 7093.50 0.00 18100.00 90.02 359.93 10264.90 7185.84 405.26 7193.47 0.00 18200.00 90.02 359.93 10264.86 7285.84 405.14 7293.44 0.00 18300.00 90.02 359.93 10264.82 7385.84 405.01 7393.41 0.00 18400.00 90.02 359.93 10264.78 7485.84 404.89 7493.38 0.00 18500.00 90.02 359.93 10264.74 7585.84 404.77 7593.35 18600.00 359.93 10264.69 7685.84 404.64 18700.00 359.93 10264.65 7785.84 7793.28 90.02 404.52 0.00 18800.00 90.02 359.93 10264.61 7885.84 404.40 7893.25 0.00 18900.00 90.02 359.93 10264.57 7985.84 404.28 7993.22 0.00 19000 00 90.02 359 93 10264 53 8085 84 404 15 8093 19 0.00 19100.00 90.02 359.93 10264.48 8185.84 404.03 8193.16 0.00 19200.00 90.02 359.93 10264.44 8285.84 403.91 8293.12 0.00 359.93 8393.09 19300.00 90.02 10264.40 8385.84 403.79 0.00 19400.00 359.93 10264.36 8485.84 8493.06 0.00 90.02 403.66 359.93 8585.84 403.54 0.00 19500.00 90.02 10264.32 8593.03 19600.00 359.93 10264.28 8685.84 403.42 8693.00



Well: Lusitano 34-15 Fed Com 233H
County: Eddy

County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
1980.000 90.02 399.33 1026.413 8885.84 403.05 889.24 0.00									
1990000 90.2 399.93 1026.411 989.88.4 40.39 999.27 0.00 2010000 90.2 399.93 1026.407 918.84 40.28 912.24 0.00 2020000 90.2 399.93 1026.308 838.84 40.26 932.27 0.00 2030000 90.02 359.93 1026.308 983.84 40.24 9482.75 0.00 2050000 90.02 359.93 1026.302 9858.84 40.21 9582.10 0.00 2070000 90.02 359.93 10263.73 9885.84 40.21 9582.29 0.00 2070000 90.02 359.93 10263.69 10085.84 40.10 10992.29 0.00 2100000 90.02 359.93 10263.69 10085.84 40.11 10992.49 0.00 2100000 90.02 359.93 10263.61 10385.84 40.13 10392.40 0.00 2100000 90.02 359.93 10263.31 1085.84									
2000000 90.2 39.993 1026.411 9088.84 40.280 91.924 0.00 2020000 90.2 39.993 1026.039 83.084 40.266 93.2281 100 2030000 90.2 35.993 1026.398 93.084 40.264 94.275 0.00 2050000 90.02 35.993 1026.398 985.84 40.21 9452.28 0.00 2060000 90.02 35.993 1026.30 985.84 40.21 9592.21 0.00 2070000 90.02 35.993 1026.37 985.84 40.12 1908.26 0.00 2090000 90.02 35.993 1026.37 985.84 40.12 1908.26 0.00 2100000 90.02 35.993 1026.37 985.84 40.12 1909.26 0.00 2100000 90.02 35.993 1026.35 1085.84 40.13 1079.24 0.00 210000 90.02 35.993 1026.34 1085.84 40.12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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	26600.00	90.02	359.93	10261.36	15685.83	394.83	15690.79	0.00	

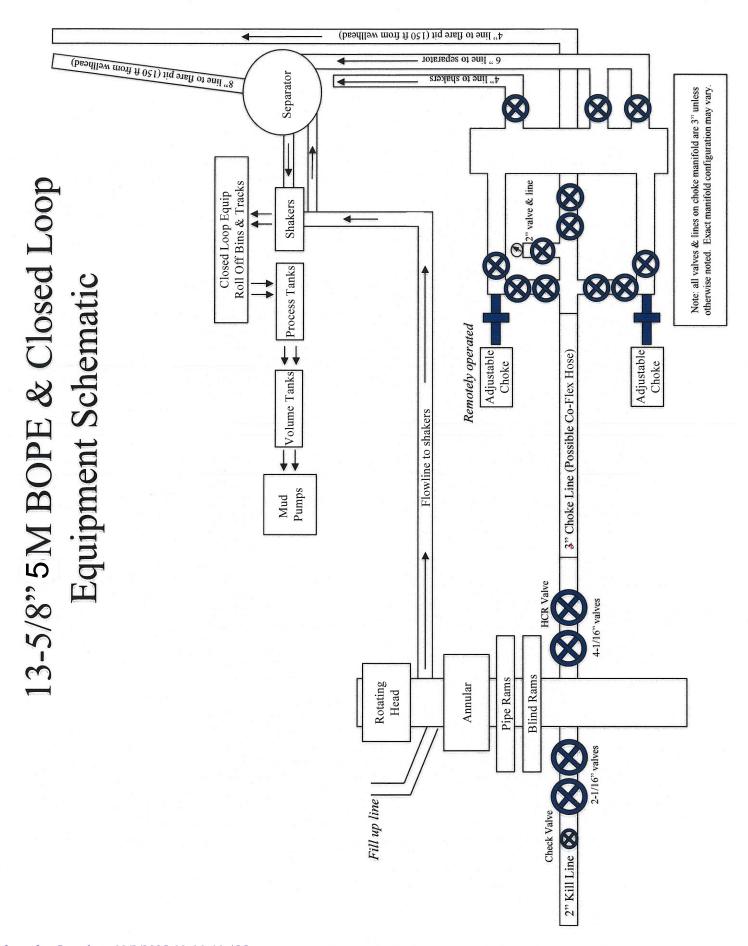
 Well: Lusitano 34-15 Fed Com 233H
 Geodetic System: US State Plane 1983

 County: Eddy
 Datum: North American Datum 1927

 Wellbore: Permit Plan
 Ellipsoid: Clarke 1866

 Design: Permit Plan #1
 Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
26700.00	90.02	359.93	10261.31	15785.83	394.71	15790.76	0.00	
26800.00	90.02	359.93	10261.27	15885.83	394.58	15890.73	0.00	
26900.00	90.02	359.93	10261.23	15985.83	394.46	15990.70	0.00	
27000.00	90.02	359.93	10261.19	16085.83	394.34	16090.66	0.00	
27100.00	90.02	359.93	10261.15	16185.83	394.22	16190.63	0.00	
27200.00	90.02	359.93	10261.11	16285.83	394.09	16290.60	0.00	
27300.00	90.02	359.93	10261.06	16385.83	393.97	16390.57	0.00	
27322.02	90.02	359.93	10261.06	16407.86	393.94	16412.58	0.00	exit
27400.00	90.02	359.93	10261.02	16485.83	393.85	16490.54	0.00	
27402.02	90.02	359.93	10261.00	16487.86	393.93	16492.56	0.00	BHL



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.

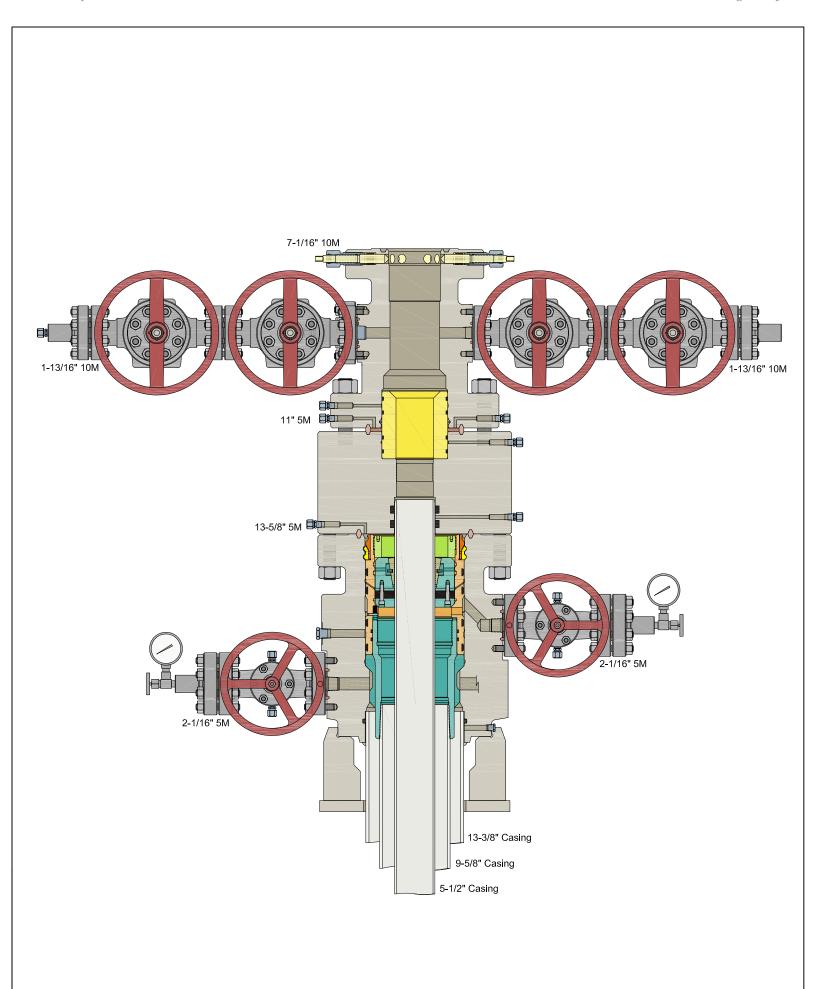
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial 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.



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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:

LOCATION: Section 34, T.25 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Lusitano 34-15 Fed Com 233H
ATS/API ID: ATS-22-736
APD ID: 10400083422
Sundry ID: N/a

COA

H2S	No 🔻		
Potash	None	None	
Cave/Karst Potential	Medium •		
Cave/Karst Potential	Critical		
Variance	None	Flex Hose	C Other
Wellhead	Conventional and Multibowl	▼	
Other	□4 String □5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze Int 1	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	▼ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention None	
Special Requirements Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	☐ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1200 feet (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 17 1/2 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

Cement to surface. If cement does not circulate see B.1.a, c-d above.
 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 is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Option 2:

Operator has proposed a DV tool(s), the depth may be adjusted as long as the cement is changed proportionally. The DV tool(s) may be cancelled if cement circulates to surface on the first stage.

DV tool(s) shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall contact the BLM if DV tool(s) depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool(s): Cement to circulate. If cement does not circulate off the DV tool(s), contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool(s):
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

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 is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- ❖ 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.
- 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 is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch intermediate casing shoe shall be 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record),

- or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170 Subpart 3171
- 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.

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

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- 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 **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

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

- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 8/5/2025



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

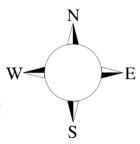
Lusitano 34-15 Fed 233H

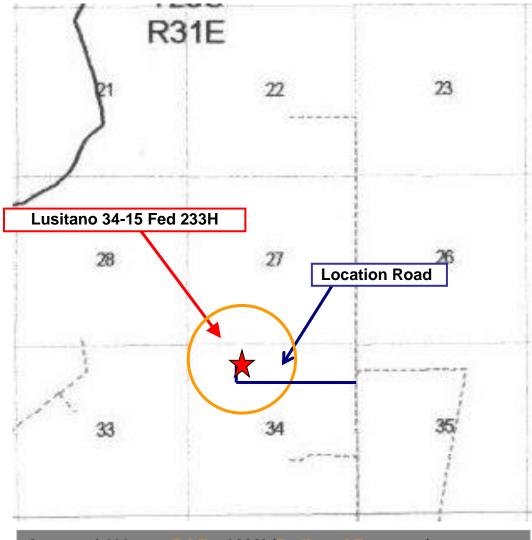
Sec-34 T-25S R-31E 610 FNL & 1790' FWL LAT. = 32.0923225 N (NAD83) LONG = 103.7688222 W

Eddy County NM

Lusitano 34-15 Fed 233H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S , including warning signs, wind indicators and H_2S monitor.





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:

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

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

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.

Fire extinguishers are located at various locations around the rig. First Aid supplies are located in the top doghouse and the rig manger's office.

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

4. 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.

5. 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.

6. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H_2S trim.

All elastomers used for packing and seals shall be H₂S trim.

7. Communication:

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

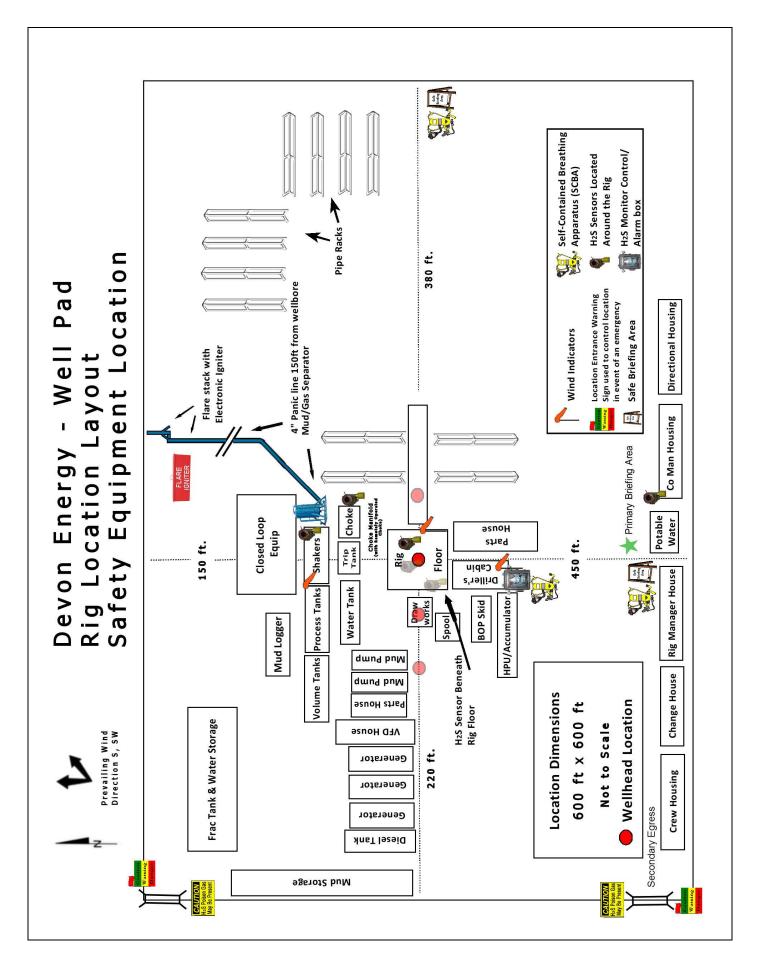
8. Well testing:

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

Employee/Company Contact Representative Position Rumber Number Numb	Jonathan F Jason Hilde Rich Down Josh Harve Laura Wrig Robert Glo Lane Frank Rickey Por Brock Vise Agency Lea	epresentative Tisher (North) Ebrand (South) Ey Ey Ey Et Interrece Call List Hobbs Lea County Communication State Police	Drilling Manager Drilling Manager Drilling VP EHS Manger EHS Supervisor EHS Professiona Lead EHS Lead EHS Lead EHS	Number 832-967-7912 405-552-6514 405-228-2415 405-228-2440 405-552-5334 575-703-5712 580-579-7052 903-720-8315	918-500-5536 832-969-8145 575-703-5712 580-579-7052 903-720-8315
Jonathan Fisher (North)	Jonathan F Jason Hilde Rich Down Josh Harve Laura Wrig Robert Glo Lane Frank Rickey Por Brock Vise Agency Lea	isher (North) ebrand (South) ey ey ht ver ter Call List Hobbs Lea County Communica State Police	Drilling Manager Drilling VP EHS Manger EHS Supervisor EHS Professiona Lead EHS Lead EHS Lead EHS	405-552-6514 405-228-2415 405-228-2440 405-552-5334 al 575-703-5712 580-579-7052 903-720-8315	832-969-8145 575-703-5712 580-579-7052 903-720-8315
Rich Downey	Rich Down Josh Harve Laura Wrig Robert Glo Lane Frank Rickey Por Brock Vise Agency	ey ht ver ter Call List Hobbs Lea County Communica State Police	Drilling VP EHS Manger EHS Supervisor EHS Professiona Lead EHS Lead EHS Lead EHS	405-228-2415 405-228-2440 405-552-5334 al 575-703-5712 580-579-7052 903-720-8315	832-969-8145 575-703-5712 580-579-7052 903-720-8315
Josh Harvey	Josh Harve Laura Wrig Robert Glo Lane Frank Rickey Por Brock Vise Agency Lea	ht ver ter Call List Hobbs Lea County Communication State Police	EHS Manger EHS Supervisor EHS Professiona Lead EHS Lead EHS Lead EHS	405-228-2440 405-552-5334 al 575-703-5712 580-579-7052 903-720-8315	832-969-8145 575-703-5712 580-579-7052 903-720-8315
Laura Wright EHS Supervisor 405-552-5334 832-969-8145 Robert Glover EHS Professional 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 575-703-5712 803-73-7052 800-73-70-8315 903-720-8315 <td>Laura Wrig Robert Glo Lane Frank Rickey Por Brock Vise Agency</td> <td>ht ver ter Call List Hobbs Lea County Communica State Police</td> <td>EHS Supervisor EHS Professiona Lead EHS Lead EHS Lead EHS</td> <td>405-552-5334 al 575-703-5712 580-579-7052 903-720-8315</td> <td>832-969-8145 575-703-5712 580-579-7052 903-720-8315</td>	Laura Wrig Robert Glo Lane Frank Rickey Por Brock Vise Agency	ht ver ter Call List Hobbs Lea County Communica State Police	EHS Supervisor EHS Professiona Lead EHS Lead EHS Lead EHS	405-552-5334 al 575-703-5712 580-579-7052 903-720-8315	832-969-8145 575-703-5712 580-579-7052 903-720-8315
Robert Glover	Robert Glov Lane Frank Rickey Por Brock Vise Agency	ter Call List Hobbs Lea County Communica State Police	EHS Professiona Lead EHS Lead EHS Lead EHS	575-703-5712 580-579-7052 903-720-8315	575-703-5712 580-579-7052 903-720-8315
Lead EHS 580-579-7052 580-579-7052	Lane Frank Rickey Por Brock Vise Agency Lea	Call List Hobbs Lea County Communica State Police	Lead EHS Lead EHS Lead EHS	580-579-7052 903-720-8315	580-579-7052 903-720-8315
Rickey Porter Lead EHS 903-720-8315 903-720-8315 Brock Vise Lead EHS 918-413-3291	Rickey Por Brock Vise Agency Lea	Call List Hobbs Lea County Communication State Police	Lead EHS Lead EHS	903-720-8315	903-720-8315
Agency Call List	Agency Lea	Call List Hobbs Lea County Communication State Police	Lead EHS		
Lea County Communication Authority 397-9265 State Police 397-9265 Sheriff's Office 397-9208 LEPC (Local Emergency Planning Committee) 393-2870 NMOCD 393-6161 US Bureau of Land Management (Hobbs Office Closed) 393-0002	Agency Lea	Hobbs Lea County Communication State Police		918-413-3291	918-413-3291
Lea County Communication Authority 397-9265 State Police 397-9265 Sheriff's Office 397-9308 LEPC (Local Emergency Planning Committee) 393-2870 NMOCD 393-6161 US Bureau of Land Management (Hobbs Office Closed) 393-0002	<u>Lea</u>	Hobbs Lea County Communication State Police	ation Authority		
Lea County Communication Authority 397-9265 State Police 397-9265 Sheriff's Office 397-9308 LEPC (Local Emergency Planning Committee) 393-2870 NMOCD 393-6161 US Bureau of Land Management (Hobbs Office Closed) 393-0002	<u>Lea</u>	Hobbs Lea County Communication State Police	ation Authority		
County (575) Lea County Communication Authority 397-9265 State Police 885-3138 City Police 397-9265 Sheriff's Office 396-3611 Ambulance 911 Fire Department 393-2870 NMOCD 393-6161 US Bureau of Land Management (Hobbs Office Closed) 393-0002 Eddy County (575) State Police 885-3137 City Police 885-2111 Sheriff's Office 887-7551 Ambulance 911 Fire Department 885-3125 LEPC (Local Emergency Planning Committee) 887-3798 US Bureau of Land Management (Carlsbad) (575)-706-1920 (575)-234-5909 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) 663-3356<		Lea County Communication State Police	ation Authority		
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	-	Cudd Pressure Control	(9	915) 699-0139	` ,
Hallibulturi (5/5) /46-2/5/	ŀ	Halliburton	<u> </u>	•	(575) 746-2757
B. J. Services (575) 746-3569	ŀ	B. J. Services			` ,
					

Give	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
GPS	For Air Ambulance - Eddy County Dispatch	(575)-616-7155
position:	For Air Ambulance - Lea County (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118
	BNSF Railroad Resource Operations	800-832-5452
	NM OSHA – Santa Fe	505-222-9595
	NM OSHA (Reporting)	877-610-6742
		505-476-8700

Prepared in conjunction with Dave Small



Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Action 511993

ACKNOWLEDGMENTS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	511993
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 511993

CONDITIONS

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	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
bamy	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/3/2025
bamy	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/3/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	10/9/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	10/9/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	10/9/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	10/9/2025