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. NMNM113898 **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 STRANGER 33 FED 301H 2. Name of Operator 9. API Well No. DEVON ENERGY PRODUCTION COMPANY LP 30-025-54696 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory HARDIN TANK/BONE SPRING 333 WEST SHERIDAN AVE, OKLAHOMA CITY, OK 7310 (405) 235-3611 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) SEC 33/T25S/R34E/NMP At surface SESE / 480 FSL / 431 FEL / LAT 32.08106 / LONG -103.467727 At proposed prod. zone SESW / 20 FSL / 1320 FWL / LAT 32.079787 / LONG -103.479141 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13. State I FA NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 480 feet location to nearest property or lease line, ft. 640.0 (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, 48 feet 10910 feet / 22882 feet FED: NMB000801 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3322 feet 01/23/2026 45 days 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 (Electronic Submission) REBECCA DEAL / Ph: (405) 235-3611 09/19/2024 Title Regulatory Professional Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 03/06/2025 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVED WITH CONDITIONS Released to Imaging: 5/28/2025 3:48:49 PM Approval Date: 03/06/2025

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.

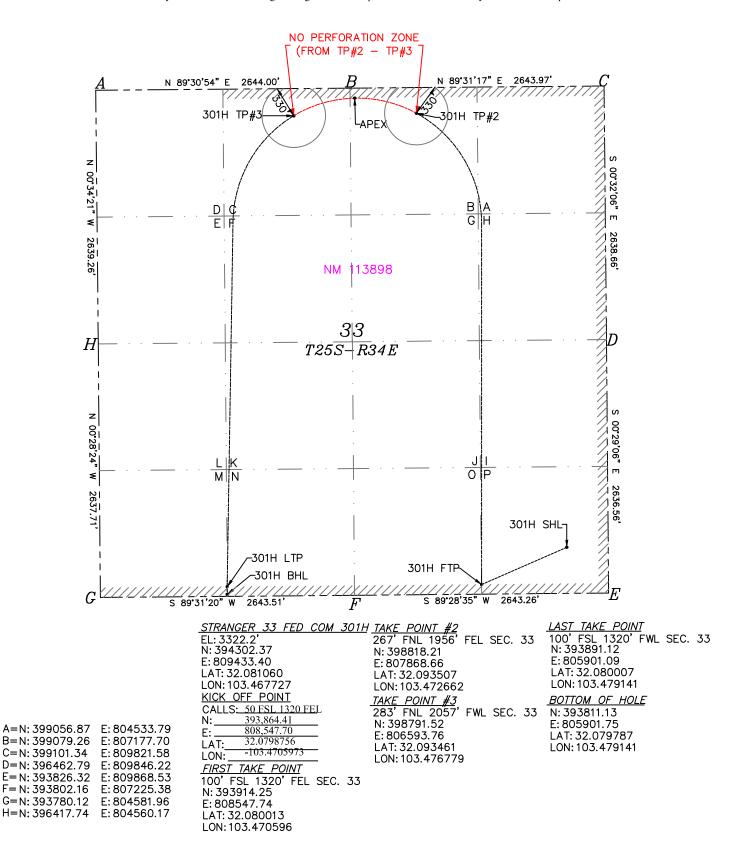
Conditions of approval, if any, are attached.

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$\frac{C-102}{Energy, Minerals}$ State of					State of ls & Natura	New Mexico al Resources Department			Rev	ised July, 2024
Submit E	lectronically		OIL	CON	NSERVAT	TION DIVISI	ON			
Via OCD Permitting						Submittal				
								Type:	Amended Repor	t
									☐ As Drilled	
A TOT NO			Pool Cod			ION INFORMATIO Pool Name	N .			
API N	umber 30-0	25-54696	_	6661		HARDIN TANI	C:BONE S	PRING		
Prope	rty Code	325475	Property		STRA	NGER 33 FED	2,2 01 12 0		Well Number 301H	
OGRID			Operator						Ground Level	Elevation
	6137					RODUCTION COMPA			3322.2'	
Surfac	e Owner:	□State □	Fee □Trib	oal ZMFed	deral	Mineral Owner:	□State [∏Fee □7	Tribal ZFederal	
					Suri	face Location				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County
P	33	25-S	34-E		480' S	431'E	32.081	060	103.467727	LEA
					Botton	m Hole Location				
UL	Section	Township	Range	Lot	Ft. from N	'	Latitude		Longitude	County
M	33	25-S	34-E		20' S	1320' W	32.079	787	103.479141	LEA
							(77 /27)			
						lapping Spacing Uni	t (Y/N)	Consolid	ation Code	
64		NFILL	l	Stranger 3.	3 Fed 301H N	· · · · · · · · · · · · · · · · · · ·			V _	
Order	Numbers				Well	setbacks are under	Common	0wnersh:	ip: ☑Yes □No	
					Kick Of	f Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N,	/S Ft. from E/W	Latitude		Longitude	County
	33	25S	34E		50 FSL	1320 FEL	32.079875	6	-103.4705973	LEA
					First Ta	ake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N	'	Latitude		Longitude	County
Р	33	25-S	34-E		100' S	1320' E	32.080	013	103.470596	LEA
					1	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N	· · · · · · · · · · · · · · · · · · ·	Latitude		Longitude	County
M	33	25-S	34-E		100' S	1320' W	32.080	007	103.479141	LEA
					Spacing	Unit Type Horizon	tal Vertic	cal G	round Floor Elev	vation:
0.000	TOD CETT	mra i mra : : :				GUDUMVAN ATTEN	L MY C TYC			
I hereby		information cor			omplete to the best	SURVEYOR CERTIFIC I hereby certify that the we		wn on this p	olat was plotted from fiel	d notes
organizat	tion either owr	ıs a working inte	rest or unlease	d mineral in	onal well, that this terest in the land	of actual surveys made by correct to the best of my be	me or under su			
		bottom hole loca ontract with an o				correct to the best of my b	ciici.		OT R. D	DF (
	nterest, or to a e entered by tl		ng agreement o	r a compuls	ory pooling order				A MEX	EHOL
	•			:	b 4				A ZEM MICK	~\~\
consent o	of at least one	essee or owner o	of a working in	terest or unl					23261	/ / //
			/	-	part of the well's				PR POPLY	1 2 1
division.			·						100	
Signa	ture		Date			Signature and Seal	of Profes	ssional S	urveyor	SURY
7.1	bull D	eal			C/2025				ONAL	/
Printe	ed Name			2/0	6/2025	Certificate Number	Date of S	Survey		
Rebe	ecca Deal, R	egulatory Ana	lyst			23261	07/20			
	l Address cca.deal@dv	n com				23201	01/20	~ 4		

ACREAGE DEDICATION PLATS

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.



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 <u>Effective May 25, 2021</u>

III. Type: Soriginal Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other. III Other, please describe:	I. Operator: Devon En	ergy Productio	n Company, L.P.	OGRID:	6137	Date:	08 /22	/ 2024				
III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Well Name API ULSTR Footages Anticipated Oil BBL/D Gas MCF/D Produced Water BBL/D See Attached See Attached See Attached Stranger Point Name: STRANGER 34 CTB 1 See 19.15.27.9(D)(1) NMAC] V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Well Name API Spud Date TD Reached Completion Back Date Date See Attached Commencement Date Back Date Date See Attached See Attached Shatch a complete description of how Operator will size separation equipment to optimize gas capture. VI. Separation Equipment: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting	II. Type: ☐ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.											
Well Name	If Other, please describe	::										
See Attached STRANGER 34 CTB 1 See 19.15.27.9(D)(1) NMAC] V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Well Name API Spud Date TD Reached Completion Initial Flow Back Date Date						vells proposed to	be drille	ed or proposed to				
IV. Central Delivery Point Name: STRANGER 34 CTB 1 [See 19.15.27.9(D)(1) NMAC] V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Well Name API Spud Date TD Reached Completion Commencement Date Back Date Date See Attached Date Commencement Date Back Date Date VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting	Well Name	API	ULSTR	Footages				duced Water				
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VI. Separation Equipment: ☐ Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: ☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: ☐ Attach a complete description of Operator's best management practices to minimize venting	Soo Attached			Date	Commencement	Date Back I	Date	Date				
 VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting 	See Attached											
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Section 2 – Enhanced Plan <u>EFFECTIVE APRIL 1, 2022</u>

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting	ıg the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capaci	ity 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 h	nave capacity	to gather	100% of the	anticipated	natural	gas
production	ı volume from t	he well prio	or to the date of fir	st production	n.						

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

XIV.	Confidentiality:	☐ Operator asserts	confidentiality	pursuant to	Section	71-2-8 N	MSA	1978 f	or the	information	provided in
Section	on 2 as provided in 1	Paragraph (2) of Su	bsection D of 19	9.15.27.9 NN	AC, and	d attaches	a full	descrip	tion of	f the specific	information
for w	hich confidentiality	is asserted and the	basis for such a	ssertion.							

(i)

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

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. \square Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan. \square 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; (c) compression on lease; (d) liquids removal on lease; (e) reinjection for underground storage; reinjection for temporary storage; **(f)** 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:
Printed Name: Jeff Walla
Title: Surface Land and Regulatory Manager
E-mail Address:
Date:
Phone:
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:
· ·

STRANGER 34 CTB 1

Well Name	API	SHL - STR & Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
STRANGER 33 FED 100H		33-25S-34E, 480 FSL & 2585 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 101H		33-25S-34E, 480 FSL & 401 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 103H		33-25S-34E, 480 FSL & 755 FWL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 110H		33-25S-34E, 480 FSL & 2642 FWL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 111H		33-25S-34E, 480 FSL & 491 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 113H		33-25S-34E, 480 FSL & 815 FWL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 300H		33-25S-34E, 480 FSL & 2555 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 301H		33-25S-34E, 480 FSL & 431 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 302H		33-25S-34E, 480 FSL & 371 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 303H		33-25S-34E, 480 FSL & 725 FWL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 311H		33-25S-34E, 480 FSL & 2615 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 312H		33-25S-34E, 480 FSL & 491 FEL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 313H		33-25S-34E, 480 FSL & 785 FWL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd
STRANGER 33 FED 314H		33-25S-34E, 480 FSL & 845 FWL	(+/-) 2080 bopd	(+/-) 7280 mcfd	(+/-) 2500 bwpd

Well Name	API	Anticipated Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
STRANGER 33 FED 100H		2/15/2026	3/17/2026	7/15/2026	7/15/2026	7/15/2026
STRANGER 33 FED 101H		2/23/2026	3/25/2026	7/23/2026	7/23/2026	7/23/2026
STRANGER 33 FED 103H		2/24/2026	3/26/2026	7/24/2026	7/24/2026	7/24/2026
STRANGER 33 FED 110H		2/25/2026	3/27/2026	7/25/2026	7/25/2026	7/25/2026
STRANGER 33 FED 111H		2/26/2026	3/28/2026	7/26/2026	7/26/2026	7/26/2026
STRANGER 33 FED 113H		2/27/2026	3/29/2026	7/27/2026	7/27/2026	7/27/2026
STRANGER 33 FED 300H		1/31/2026	3/2/2026	6/30/2026	6/30/2026	6/30/2026
STRANGER 33 FED 301H		1/23/2026	2/22/2026	6/22/2026	6/22/2026	6/22/2026
STRANGER 33 FED 302H		2/8/2026	3/10/2026	7/8/2026	7/8/2026	7/8/2026
STRANGER 33 FED 303H		2/9/2026	3/11/2026	7/9/2026	7/9/2026	7/9/2026
STRANGER 33 FED 311H		2/10/2026	3/12/2026	7/10/2026	7/10/2026	7/10/2026
STRANGER 33 FED 312H		2/11/2026	3/13/2026	7/11/2026	7/11/2026	7/11/2026
STRANGER 33 FED 313H		2/12/2026	3/14/2026	7/12/2026	7/12/2026	7/12/2026
STRANGER 33 FED 314H		2/13/2026	3/15/2026	7/13/2026	7/13/2026	7/13/2026

^{*}Dates and Volumes are subject to change



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.

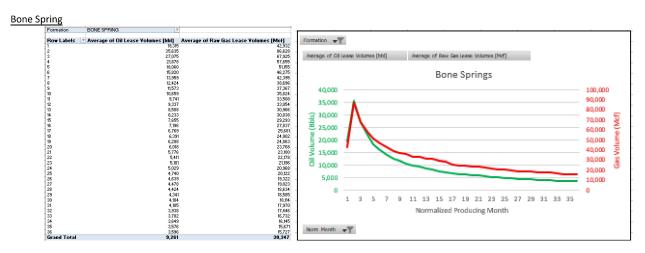


Devon Energy Production Company, L.P. 333 W. Sheridan Avenue Oklahoma City, Oklahoma 73102 Phone: (405) 228-4800

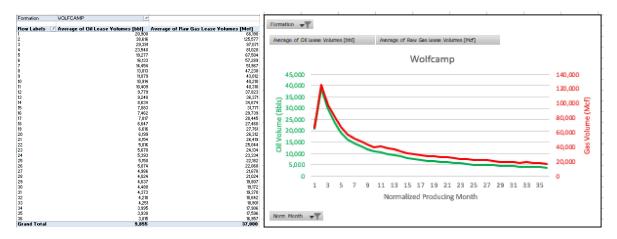
WASTE MINIMIZATION PLAN

Per 89 FR 25378 - Waste Prevention, Production Subject to Royalties, and Resource Conservation, requirements:

- (1) initial oil production estimates and decline,
- (2) initial gas production estimates and decline,
- (3) certification that the operator has an executed gas sales contract to sell 100 percent of the produced oil-well gas, and
- (4) any other information demonstrating the operator's plans to avoid the waste of gas.
- (1), (2) 3 year Oil and Gas decline curves: Bone Spring and Wolfcamp formation decline curves below supply Year 1, 2, 3 cumulative values for oil and gas, in range format; based on peak IP rates for oil and gas based on Devon Energy Production Company, L.P. operated wells ID post 1/2019, 10K LL norm, P90-10 ranges, annualized rates. Please refer to NGMP for table of initial oil and gas volumes.



Wolfcamp



- (3) Certification (NGMP Section 3 Certification): Operator (Devon Energy Production Company, L.P.) 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;
- (4) Addl waste avoidance information: Refer to NGMP Sec. VII. Operational Practices & VIII. Best Management Practices during Maintenance

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.

BOP Break Test Variance – Intermediate Casing

Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner.

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of BOP to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, or before the expiration of the allotted 14-days for 5M intermediate batch drilling, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered.

Well Control Response:

- 1. Primary barrier remains fluid
- In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - 1. Annular first
 - 2. If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



STRANGER 33 FED 301H

1. Geologic Formations

TVD of target	10910	Pilot hole depth	N/A
MD at TD:	22882	Deepest expected fresh water	

Basin

Dasiii	D 41	XX7 - 4 /B/I* X	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	840		
Salt	1220		
Base of Salt	5030		
Delaware	5295		
Cherry Canyon	6330		
Brushy Canyon	7935		
Bone Spring 1st	10480		
2nd BLSM	10700		

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

2. Casing Program

	8	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	54 1/2	J-55	BTC	0	865	0	865
12 1/4	9 5/8	40	J-55	ВТС	0	5395	0	5395
8 3/4	5 1/2	20	P110	DWC / C-IS+	0	22882	0	10910

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	664	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	598	Surf	9.0	3.3	Lead: Class C Cement + additives
IIIt 1	154	4895	13.2	1.4	Tail: Class H / C + additives
Int 1	777	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	598	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	4895	13.2	1.4	Tail: Class H / C + additives
Due desette u	482	4895	9.0	3.3	Lead: Class H /C + additives
Production	2333	10789	13.2	1.4	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

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	~	Tested to:																									
			Anı	nular	X	50% of rated working pressure																									
Int 1	13-5/8"	5M	Bline	d Ram	X																										
IIIt I	13-3/6	3101		Ram		5M																									
				le Ram	X	3101																									
			Other*																												
	13-5/8"		Anı	nular	X	50% of rated working pressure																									
Production		13-5/8"	12 5/9"	12 5/9"	12 5/9"	5M	13-5/8" 5M	5M	13-5/8" 5M	-5/8" 5M	5M	5M	5M	Bline	d Ram	X															
Troduction			JWI	3101	3101																				Ram		5M				
						Doub	le Ram	X	J1V1																						
			Other*																												
			Annul	ar (5M)																											
			Bline	d Ram																											
			Pipe Ram																												
			Double 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, C	Logging, Coring and Testing				
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the				
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	5106
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 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

ı	measured values and formations will be provided to the BLM.		
	N	H2S is present	
I	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 (43 CFR 3172, 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

WCDSC Permian NM

Lea County (NAD83 New Mexico East)
Sec 33-T25S-R34E
STRANGER 33 FED 301H
WA022528220
Wellbore #1
Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Anticollision Summary Report

21 January, 2025

Anticollision Summary Report

TVD Reference:

MD Reference:

Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Reference Site: Sec 33-T25S-R34E

Site Error: 0.00 ft

Reference Well: STRANGER 33 FED 301H

Well Error: 0.50 ft
Reference Wellbore #1

Reference Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

Well STRANGER 33 FED 301H GL:3322.20+26ft @ 3348.20ft

GL:3322.20+26ft @ 3348.20ft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

 Output errors are at
 2.00 sigma

 Database:
 EDM_5000.17

 Offset TVD Reference:
 Offset Datum

Reference Plat R1 (1320FEL-1320FWL) 2BSLM LC

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: MD + Stations Interval 100.00ft Error Model: ISCWSA

 Depth Range:
 0.00 to 21,938.05ft
 Scan Method:
 Closest Approach 3D

 Results Limited by:
 Maximum centre distance of 10,000.00ft
 Error Surface:
 Pedal Curve

Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

 From (ft)
 To (ft)
 Survey (Wellbore)
 Tool Name
 Description

 0.00
 21,938.05
 Plat R1 (1320FEL-1320FWL) 2BSLM LOW
 MWD+IFR1+FDIR
 OWSG MWD + IFR1 + FDIR Correction

ımmary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Dista Between Centres (ft)	nce Between Ellipses (ft)	Separation Factor	Warning
Sec 33-T25S-R34E						
STRANGER 33 FED 100H - Wellbore #1 - Plat R1 (1980 STRANGER 33 FED 100H - Wellbore #1 - Plat R1 (1980 STRANGER 33 FED 101H - Wellbore #1 - Plat R1 (660F STRANGER 33 FED 101H - Wellbore #1 - Plat R1 (660F STRANGER 33 FED 103H - Wellbore #1 - Permit Plan 1 STRANGER 33 FED 103H - Wellbore #1 - Permit Plan 1 STRANGER 33 FED 103H - Wellbore #1 - Permit Plan 1 Stranger 33 Fed 11H - Wellbore #1 - Surveys Stranger 33 Fed 11H - Wellbore #1 - Surveys Stranger 33 Fed 13H - Wellbore #1 - Final Surveys (Tota Stranger 33 Fed 13H - Wellbore #1 - Final Surveys (Tota Stranger 33 Fed 13H - Wellbore #1 - Final Surveys (Tota STRANGER 33 FED 300H - Wellbore #1 (U-Turn) - Plat STRANGER 33 FED 300H - Wellbore #1 (U-Turn) - Plat STRANGER 33 FED 302H - Wellbore #1 - Plat R1 (440F STRANGER 33 FED 302H - Wellbore #1 - Plat R1 (440F STRANGER 33 FED 303H - Wellbore #1 (U-Turn) - Plat STRAN	16,926.58 21,938.05 1,500.00 1,600.00 16,958.75 21,938.05 2,333.28 10,200.00 7,969.42 9,957.53 10,050.00 16,848.00 16,900.00 1,500.00 1,500.45 1,700.00 16,805.54 16,900.00 10,030.47	14,185.70 20,318.78 1,500.00 1,600.40 15,383.18 20,259.14 2,332.26 10,129.32 7,951.31 9,939.00 10,029.04 15,680.45 15,689.03 1,505.26 1,701.23 17,088.69 17,064.75 9,997.10	950.00 1,155.89 30.04 30.61 957.80 1,164.60 245.64 836.72 485.18 487.31 489.18 550.10 552.49 60.09 64.18 641.60 648.12 948.29	851.69 983.13 19.43 19.31 850.97 1,002.43 231.75 768.17 430.57 419.54 420.80 450.45 451.13 49.47 49.44 52.22 533.11 537.50 880.28	6.691 2.830 2.709 8.965 7.181 17.681 12.206 8.884 7.191 7.154 5.521 5.451 5.659 5.643	Alert, CC Alert, ES, SF CC, ES SF CC, ES SF CC ES SF CC, ES SF CC, ES SF CC, ES SF CC, ES SF CC ES SF CC ES SF CC ES SF
Stranger 33 Fed 6H - Wellbore #1 - Final Surveys (total d Stranger 33 Fed 6H - Wellbore #1 - Final Surveys (total d	10,050.00 10,250.00	10,016.73 10,213.24	948.35 956.76	880.21 887.35	13.917 13.784	ES SF
Stranger 33 Fed 7H - Wellbore #1 - Final Surveys (SDI) Stranger 33 Fed 9H - Wellbore #1 - Final Surveys (total d Stranger 33 Fed 9H - Wellbore #1 - Final Surveys (total d	9,962.16 21,858.05 21,859.94	9,966.85 10,484.28 10,484.22	98.88 812.87 812.87	29.18 714.80 714.80		Major Risk, CC, ES, SF CC, ES SF

Anticollision Summary Report

Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Reference Site: Sec 33-T25S-R34E

Site Error: 0.00 ft

Reference Well: STRANGER 33 FED 301H

Well Error: 0.50 ft
Reference Wellbore #1

Reference Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

 TVD Reference:
 GL:3322.20+26ft @ 3348.20ft

 MD Reference:
 GL:3322.20+26ft @ 3348.20ft

Well STRANGER 33 FED 301H

North Reference: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: EDM_5000.17
Offset TVD Reference: Offset Datum

Reference Depths are relative to GL:3322.20+26ft @ 3348.20ft

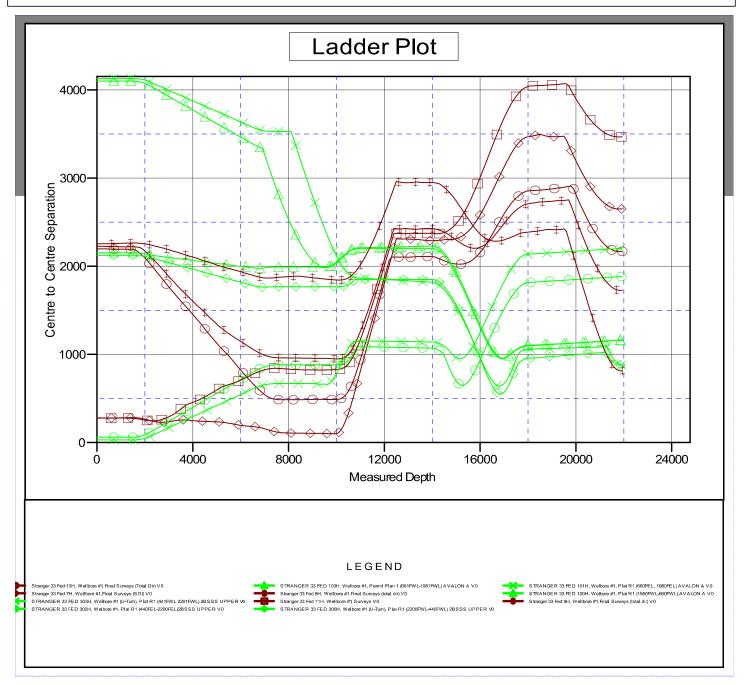
Offset Depths are relative to Offset Datum

Central Meridian is -104.3333333

Coordinates are relative to: STRANGER 33 FED 301H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.46°



Anticollision Summary Report

Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Reference Site: Sec 33-T25S-R34E

Site Error: 0.00 ft

Reference Well: STRANGER 33 FED 301H

Well Error: 0.50 ft
Reference Wellbore #1

Reference Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

 TVD Reference:
 GL:3322.20+26ft @ 3348.20ft

 MD Reference:
 GL:3322.20+26ft @ 3348.20ft

Well STRANGER 33 FED 301H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

 Output errors are at
 2.00 sigma

 Database:
 EDM_5000.17

 Offset TVD Reference:
 Offset Datum

Reference Depths are relative to GL:3322.20+26ft @ 3348.20ft

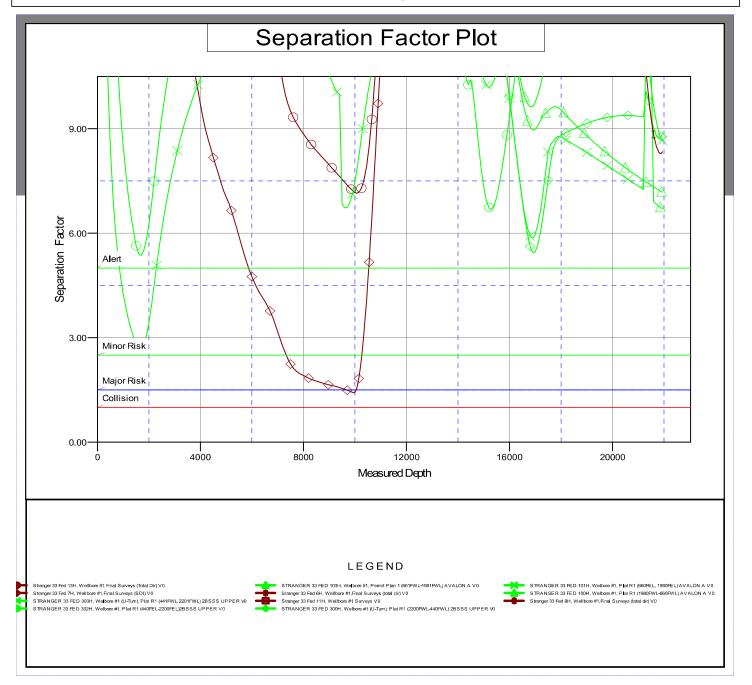
Offset Depths are relative to Offset Datum

Central Meridian is -104.3333333

Coordinates are relative to: STRANGER 33 FED 301H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.46°

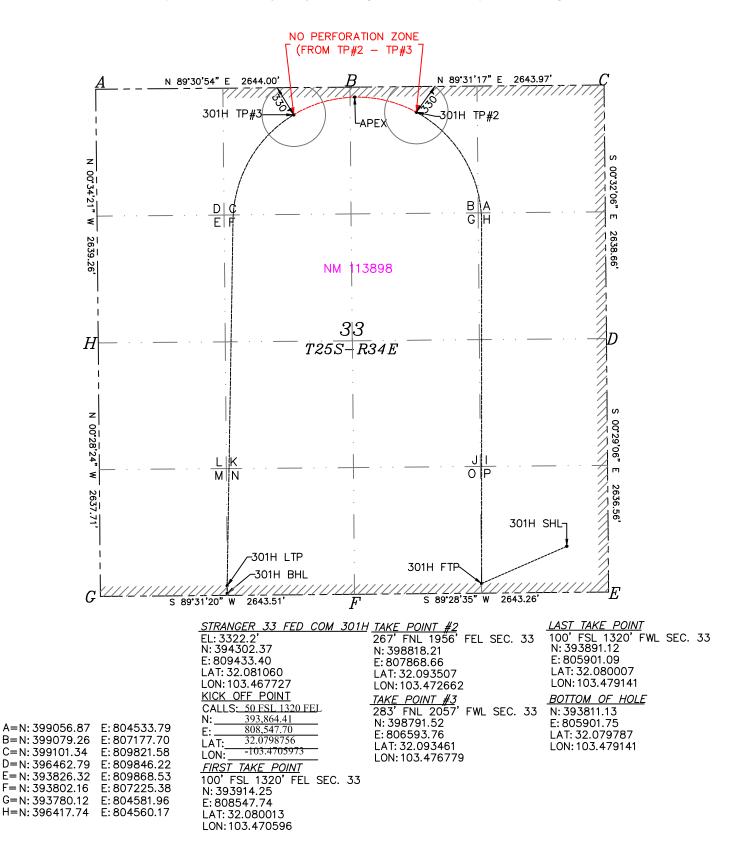


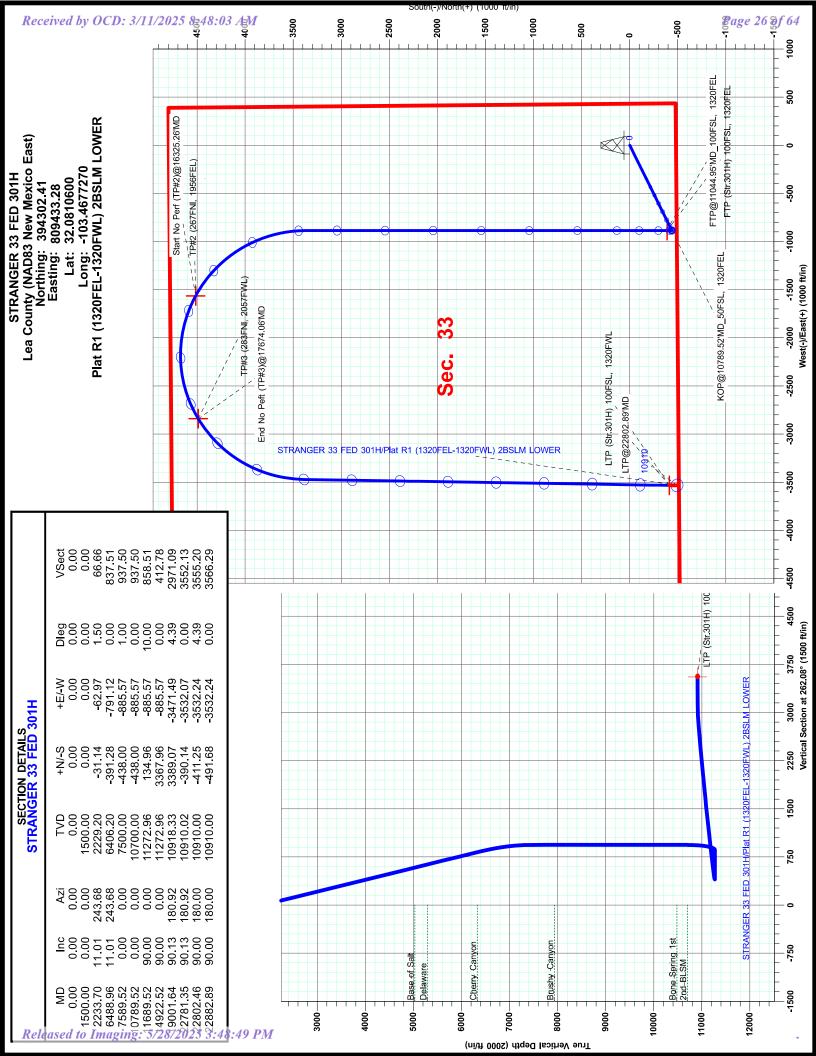
<u>C-1</u>	02				ls & Natura	New Mexico Il Resources Depa			Rev	rised July, 2024
	Electronically		OIL	CON	NSERVAI	TON DIVISION	JN			
V1a OCI	O Permitting						Submittal	✓ Initial Submittal		
								Type:	Amended Repor	t
								☐ As Drilled		
				W	ELL LOCAT	ION INFORMATIO	N			
API N	lumber		Pool Cod			Pool Name				
Duana	ntr Codo		, ,	6661		HARDIN TANK	C;BONE S	PRING	Well Number	
-	rty Code		Property		STRA	NGER 33 FED			301H Ground Level	77
OGRII	6137		Operator	DEVON		RODUCTION COMPA	NY, L.P.		3322.2'	Lievation
Surfa	ce Owner:	□State □	Fee □Tril	oal AFe	deral	Mineral Owner:	□State	□Fee □	Tribal AFederal	
					Surf	face Location				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County
P	33	25-S	34-E		480' S	431'E	32.081	060	103.467727	LEA
					Botto	m Hole Location				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County
M	33	25-S	34-E		20' S	1320' W	32.079	787	103.479141	LEA
Dedicat	ed Acres	Infill or Def	ining Well	Defining	Well API Over	rlapping Spacing Unit	(Y/N)	Consolid	ation Code	
64		NFILL			3 Fed 301H N		(1)11)	001100114		
Order	Numbers					setbacks are under	Common	Ownersh	in: PYes □No	
									-F: 2000 2000	
					Kick Of	f Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N,	/S Ft. from E/W	Latitude		Longitude	County
	33	25S	34E		50 FSL	_ 1320 FEL	32.079875	6	-103.4705973	LEA
			0.12			ake Point (FTP)	22.073072		10011100370	
UL	Section	Township	Range	Lot		/S Ft. from E/W	Latitude		Longitude	County
P	33	25-S	34-E		100' S	1320' E	32.080	013	103.470596	LEA
				1	Last Ta	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County
M	33	25-S	34-E		100' S	1320' W	32.080	007	103.479141	LEA
					Spacing	Unit Type Horizont	tal Vertic	cal G	round Floor Ele	vation:
		FICATIONS	ataina J.L.		amulate to the first	SURVEYOR CERTIFIC	ATIONS			
of my kr organiza including	nowledge and tion either ow g the proposed	belief, and, if the ns a working inte bottom hole loc	well is a vertice erest or unlease ation or has a r	al or direction d mineral in ight to drill t	his well at this	I hereby certify that the we of actual surveys made by a correct to the best of my be	me or under si		nd that the same is true	and
mineral					ory pooling order				RERT WEX	DEHOLOS
consent o	of at least one n each tract (i ed interval wil	lessee or owner on the target pool	of a working in or formation) i	terest or unl n which any	on has received the eased mineral part of the well's ng order from the				23261 PR O	4
Signa	ture	<u> </u>	Date			Signature and Seal	of Profes	ssional S		SURUY
	bull. D	eal		2.0	6/2025				YONAL	<u> </u>
Print	ed Name			2/0	6/2025	Certificate Number	Date of	Survey		
Rebe Emai	ecca Deal, R l Address	egulatory Ana	lyst			23261	07/20	24		
	cca deal@di	ın com					,			

ACREAGE DEDICATION PLATS

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.







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

Drilling Plan Data Report

APD ID: 10400101127 **Submission Date**: 09/19/2024

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 33 FED Well Number: 301H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15165302		3321	0	Ö	OTHER : SURFACE	NONE	N
15165303	RUSTLER	2461	860	860	SANDSTONE	NONE	N
15165304	TOP OF SALT	2111	1210	1210	SALT	NONE	N
15165305	BASE OF SALT	-1734	5055	5055	ANHYDRITE	NATURAL GAS, OIL	N
15165315	LAMAR	-1999	5320	5320	SANDSTONE	NATURAL GAS, OIL	N
15165307	CHERRY CANYON	-3114	6435	6435	SANDSTONE	NATURAL GAS, OIL	N
15165308	BRUSHY CANYON	-4639	7960	7960	SANDSTONE	NATURAL GAS, OIL	N
15165309	BONE SPRING	-6129	9450	9450	SANDSTONE	NATURAL GAS, OIL	N
15165316	BONE SPRING 1ST	-7159	10480	10480	SANDSTONE	NATURAL GAS, OIL	N
15165319	BONE SPRING 2ND	-7379	10700	10700	LIMESTONE	NATURAL GAS, OIL	Y
15165311	BONE SPRING 2ND	-7729	11050	11050	SANDSTONE	NATURAL GAS, OIL	N
15165318	BONE SPRING 3RD	-8219	11540	11540	LIMESTONE	NATURAL GAS, OIL	N
15165312	BONE SPRING 3RD	-8819	12140	12140	SANDSTONE	NATURAL GAS, OIL	N
15165313	WOLFCAMP	-9259	12580	12580	SHALE	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.

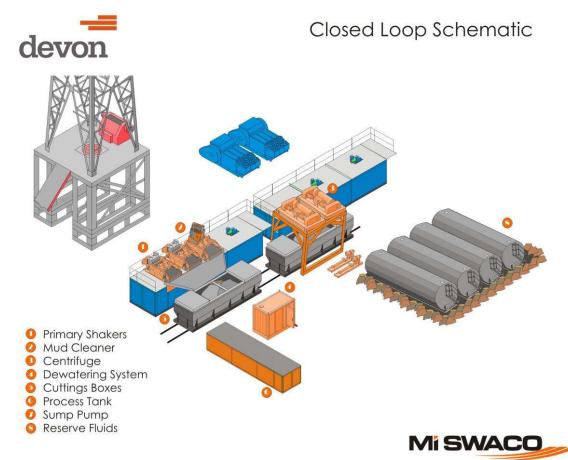
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.

Database: EDM_5000.17

Company: WCDSC Permian NM
Project: Lea County (NAD83 New Mexico East)

 Site:
 Sec 33-T25S-R34E

 Well:
 STRANGER 33 FED 301H

Wellbore: Wellbore #1

Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well STRANGER 33 FED 301H GL:3322.20+26ft @ 3348.20ft

GL:3322.20+26ft @ 3348.20ft

Grid

Minimum Curvature

Project Lea County (NAD83 New Mexico East)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Sec 33-T25S-R34E Site 399,056.87 usft Northing: Site Position: Latitude: 32.0942355 804,533.73 usft -103.4834238 From: Мар Easting: Longitude: **Position Uncertainty:** 0.00 ft Slot Radius: 13.20 in

STRANGER 33 FED 301H Well **Well Position** +N/-S 0.00 ft Northing: 394,302.40 usft Latitude: 32.0810600 +E/-W 0.00 ft Easting: 809,433.27 usft Longitude: -103.4677270 0.50 ft Wellhead Elevation: ft Ground Level: 3,322.20 ft **Position Uncertainty** 0.46° **Grid Convergence:**

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2015 8/14/2024 6.11 59.85 47,130.80775194

Design Plat R1 (1320FEL-1320FWL) 2BSLM LOWER Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 262.08 0.00 0.00 0.00

| Plan Survey Tool Program | Date | 2/5/2025 |
| Depth From | Depth To | (ft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 22,882.46 | Plat R1 (1320FEL-1320FWL) 2B | MWD+IFR1+FDIR | OWSG MWD + IFR1 + FDIR C

Database: EDM_5000.17

Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

 Site:
 Sec 33-T25S-R34E

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 STRANGER 33 FED 301H

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Local Co-ordinate Reference:

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North Reference:

Survey Calculation Method:

Well STRANGER 33 FED 301H GL:3322.20+26ft @ 3348.20ft GL:3322.20+26ft @ 3348.20ft

Grid

Minimum Curvature

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,233.70	11.01	243.68	2,229.20	-31.14	-62.97	1.50	1.50	0.00	243.68	
6,488.96	11.01	243.68	6,406.20	-391.28	-791.12	0.00	0.00	0.00	0.00	
7,589.52	0.00	0.00	7,500.00	-438.00	-885.57	1.00	-1.00	0.00	180.00	
10,789.52	0.00	0.00	10,700.00	-438.00	-885.57	0.00	0.00	0.00	0.00	
11,689.52	90.00	0.00	11,272.96	134.96	-885.57	10.00	10.00	0.00	0.00	
14,922.52	90.00	0.00	11,272.96	3,367.96	-885.57	0.00	0.00	0.00	0.00	
19,001.64	90.13	180.92	10,918.33	3,389.07	-3,471.49	4.39	0.00	-4.39	-82.19	
22,781.35	90.13	180.92	10,910.02	-390.14	-3,532.07	0.00	0.00	0.00	0.00	
22,802.46	90.00	180.00	10,910.00	-411.25	-3,532.24	4.39	-0.60	-4.35	-97.81	LTP (Str.301H) 100FS
22,882.89	90.00	180.00	10,910.00	-491.68	-3,532.24	0.00	0.00	0.00	0.00	

Database: EDM_5000.17
Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

 Site:
 Sec 33-T25S-R34E

 Well:
 STRANGER 33 FED 301H

Wellbore: Wellbore #1

Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well STRANGER 33 FED 301H GL:3322.20+26ft @ 3348.20ft GL:3322.20+26ft @ 3348.20ft

Grid

Minimum Curvature

Plai	nned Survey									
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
	0.00	0.00	0.00	0.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	100.00	0.00	0.00	100.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	200.00	0.00	0.00	200.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	300.00	0.00	0.00	300.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	400.00	0.00	0.00	400.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	500.00	0.00	0.00	500.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	600.00	0.00	0.00	600.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	700.00	0.00	0.00	700.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	800.00 840.00	0.00	0.00 0.00	800.00 840.00	0.00 0.00	0.00 0.00	394,302.40 394,302.40	809,433.27 809,433.27	32.0810600 32.0810600	-103.4677270 -103.4677270
		0.00	0.00	640.00	0.00	0.00	394,302.40	609,433.27	32.0610000	-103.4077270
	Rustler 900.00	0.00	0.00	900.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	1,100.00	0.00	0.00	1,100.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	1,220.00	0.00	0.00	1,220.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	Salt	0.00	0.00	1,220.00	0.00	0.00	001,002.10	000,100.21	02.0010000	100.1017210
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	394.302.40	809,433.27	32.0810600	-103.4677270
	1,400.00	0.00	0.00	1,400.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	1,500.00	0.00	0.00	1,500.00	0.00	0.00	394,302.40	809,433.27	32.0810600	-103.4677270
	1,600.00	1.50	243.68	1,599.99	-0.58	-1.17	394,301.82	809,432.10	32.0810585	-103.4677308
	1,700.00	3.00	243.68	1,699.91	-2.32	-4.69	394,300.08	809,428.58	32.0810537	-103.4677422
	1,800.00	4.50	243.68	1,799.69	-5.22	-10.55	394,297.18	809,422.72	32.0810459	-103.4677612
	1,900.00	6.00	243.68	1,899.27	-9.28	-18.76	394,293.13	809,414.52	32.0810349	-103.4677878
	2,000.00	7.50	243.68	1,998.57	-14.49	-29.29	394,287.92	809,403.98	32.0810209	-103.4678219
	2,100.00	9.00	243.68	2,097.54	-20.85	-42.15	394,281.56	809,391.12	32.0810036	-103.4678636
	2,200.00	10.50	243.68	2,196.09	-28.36	-57.33	394,274.05	809,375.94	32.0809833	-103.4679128
	2,233.70	11.01	243.68	2,229.20	-31.14	-62.97	394,271.26	809,370.31	32.0809758	-103.4679311
	2,300.00	11.01	243.68	2,294.28	-36.75	-74.31	394,265.65	809,358.96	32.0809606	-103.4679679
	2,400.00	11.01	243.68	2,392.44	-45.22	-91.42	394,257.19	809,341.85	32.0809378	-103.4680233
	2,500.00	11.01	243.68	2,490.60	-53.68	-108.54	394,248.72	809,324.74	32.0809149	-103.4680788
	2,600.00	11.01	243.68	2,588.76	-62.15	-125.65	394,240.26	809,307.63	32.0808920	-103.4681342
	2,700.00	11.01	243.68	2,686.92	-70.61	-142.76	394,231.80	809,290.51	32.0808691	-103.4681897
	2,800.00	11.01	243.68	2,785.08	-79.07	-159.87	394,223.33	809,273.40	32.0808462	-103.4682452
	2,900.00	11.01	243.68	2,883.24	-87.54	-176.98	394,214.87	809,256.29	32.0808233	-103.4683006
	3,000.00	11.01	243.68	2,981.40	-96.00	-194.10	394,206.41	809,239.18	32.0808004	-103.4683561
	3,100.00 3,200.00	11.01	243.68 243.68	3,079.56	-104.46 -112.93	-211.21 -228.32	394,197.94	809,222.07 809,204.96	32.0807776 32.0807547	-103.4684116 -103.4684670
	3,300.00	11.01 11.01	243.68	3,177.73 3,275.89	-112.93 -121.39	-226.32 -245.43	394,189.48 394,181.02	809,204.96 809,187.84	32.0807318	-103.4685225
		11.01	243.68	· ·	-121.39	-243.43 -262.54	394,172.55	809,170.73	32.0807089	-103.4685779
	3,400.00	11.01	243.68	3,374.05 3,472.21	-138.32	-279.65	394,164.09	809,153.62	32.0806860	-103.4686334
	3,600.00	11.01	243.68	3,570.37	-146.78	-296.77	394,155.63	809,136.51	32.0806631	-103.4686889
	3,700.00	11.01	243.68	3,668.53	-155.24	-313.88	394,147.16	809,119.40	32.0806402	-103.4687443
	3,800.00	11.01	243.68	3,766.69	-163.71	-330.99	394,138.70	809,102.28	32.0806174	-103.4687998
	3,900.00	11.01	243.68	3,864.85	-172.17	-348.10	394,130.24	809,085.17	32.0805945	-103.4688553
	4,000.00	11.01	243.68	3,963.01	-180.63	-365.21	394,121.77	809,068.06	32.0805716	-103.4689107
	4,100.00	11.01	243.68	4,061.17	-189.10	-382.33	394,113.31	809,050.95	32.0805487	-103.4689662
	4,200.00	11.01	243.68	4,159.33	-197.56	-399.44	394,104.85	809,033.84	32.0805258	-103.4690216
	4,300.00	11.01	243.68	4,257.49	-206.02	-416.55	394,096.38	809,016.73	32.0805029	-103.4690771
	4,400.00	11.01	243.68	4,355.66	-214.49	-433.66	394,087.92	808,999.61	32.0804800	-103.4691326
	4,500.00	11.01	243.68	4,453.82	-222.95	-450.77	394,079.46	808,982.50	32.0804571	-103.4691880
	4,600.00	11.01	243.68	4,551.98	-231.41	-467.88	394,070.99	808,965.39	32.0804343	-103.4692435
	4,700.00	11.01	243.68	4,650.14	-239.88	-485.00	394,062.53	808,948.28	32.0804114	-103.4692990
	4,800.00	11.01	243.68	4,748.30	-248.34	-502.11	394,054.07	808,931.17	32.0803885	-103.4693544

Database:

EDM_5000.17 WCDSC Permian NM Company:

Project: Lea County (NAD83 New Mexico East)

Sec 33-T25S-R34E Site: Well: STRANGER 33 FED 301H

Wellbore: Wellbore #1

Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well STRANGER 33 FED 301H GL:3322 20+26ft @ 3348 20ft GL:3322.20+26ft @ 3348.20ft

Grid

Minimum Curvature

ned Survey									
leasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
					. ,	` '	, ,		_
4,900.00	11.01	243.68 243.68	4,846.46	-256.80 -265.27	-519.22 -536.33	394,045.60	808,914.06	32.0803656	-103.4694
5,000.00	11.01		4,944.62			394,037.14	808,896.94	32.0803427	-103.4694
5,086.98	11.01	243.68	5,030.00	-272.63	-551.21	394,029.78	808,882.06	32.0803228	-103.4695
Base of \$ 5,100.00		243.68	5,042.78	-273.73	-553.44	394,028.68	808,879.83	32.0803198	-103.4695
5,100.00	11.01 11.01	243.68	5,042.76 5,140.94	-273.73 -282.19	-553.44 -570.55	394,020.21	808,862.72	32.0802969	-103.4695
5,300.00	11.01	243.68	5,140.94	-290.66	-570.55 -587.67	394,020.21	808,845.61	32.0802969	-103.4696
5,356.94	11.01	243.68	5,295.00	-295.48	-597.41	394,006.93	808,835.86	32.0802610	-103.4696
Delaware		245.00	3,293.00	-233.40	-557.41	334,000.33	000,000.00	32.0002010	-100.4090
5,400.00	11.01	243.68	5,337.26	-299.12	-604.78	394,003.28	808,828.50	32.0802512	-103.4696
5,500.00	11.01	243.68	5,435.43	-307.58	-621.89	393,994.82	808,811.38	32.0802283	-103.4697
5,600.00	11.01	243.68	5,533.59	-316.05	-639.00	393,986.36	808,794.27	32.0802054	-103.4697
5,700.00	11.01	243.68	5,631.75	-324.51	-656.11	393,977.89	808,777.16	32.0801825	-103.4698
5,800.00	11.01	243.68	5,729.91	-332.97	-673.23	393,969,43	808,760.05	32.0801596	-103.4699
5,900.00	11.01	243.68	5,828.07	-341.44	-690.34	393,960.97	808,742.94	32.0801367	-103.469
6,000.00	11.01	243.68	5,926.23	-349.90	-707.45	393,952.50	808,725.83	32.0801139	-103.470
6,100.00	11.01	243.68	6,024.39	-358.36	-724.56	393,944.04	808,708.71	32.0800910	-103.470
6,200.00	11.01	243.68	6,122.55	-366.83	-741.67	393,935.58	808,691.60	32.0800681	-103.470
6,300.00	11.01	243.68	6,220.71	-375.29	- 758.78	393,927.11	808,674.49	32.0800452	-103.470°
6,400.00	11.01	243.68	6,318.87	-383.75	-775.90	393,918.65	808,657.38	32.0800223	-103.470
6,411.34	11.01	243.68	6,330.00	-384.71	-777.84	393,917.69	808,655 44	32.0800197	-103.470
Cherry C	anvon								
6,488.96	11.01	243.68	6,406.20	-391.28	-791.12	393,911.12	808,642.16	32.0800019	-103.470
6,500.00	10.90	243.68	6,417.04	-392.21	-793.00	393,910.19	808,640.28	32.0799994	-103.470
6,600.00	9.90	243.68	6,515.39	-400.21	-809.17	393,902.19	808,624.10	32.0799778	-103.470
6,700.00	8.90	243.68	6,614.05	-407.45	-823.80	393,894.96	808,609.47	32.0799582	-103.470
6,800.00	7.90	243.68	6,712.98	-413.92	-836.89	393,888.48	808,596.38	32.0799407	-103.470
6,900.00	6.90	243.68	6,812.15	-419.63	-848.43	393,882.78	808,584.85	32.0799253	-103.470
7,000.00	5.90	243.68	6,911.52	-424.57	-858.41	393,877.84	808,574.86	32.0799119	-103.470
7,100.00	4.90	243.68	7,011.08	-428.73	-866.84	393,873.67	808,566.44	32.0799007	-103.470
7,200.00	3.90	243.68	7,110.78	-432.13	-873.71	393,870.27	808,559.57	32.0798915	-103.470
7,300.00	2.90	243.68	7,210.61	-434.76	-879.02	393,867.65	808,554.26	32.0798844	-103.470
7,400.00	1.90	243.68	7,310.52	-436.61	-882.76	393,865.80	808,550.51	32.0798794	-103.470
7,500.00	0.90	243.68	7,410.49	-437.69	-884.95	393,864.72	808,548.33	32.0798765	-103.470
7,589.52	0.00	0.00	7,500.00	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
7,600.00	0.00	0.00	7,510.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
7,700.00	0.00	0.00	7,610.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
7,800.00	0.00	0.00	7,710.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
7,900.00	0.00	0.00	7,810.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,000.00	0.00	0.00	7,910.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,024.52	0.00	0.00	7,935.00	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
Brushy C		2.25	0.010.10	400.00	005.53	000 004 45	000 547 70	00.0700755	100 1=0
8,100.00	0.00	0.00	8,010.48	-438.00 438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,200.00	0.00	0.00	8,110.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,300.00	0.00	0.00	8,210.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,400.00	0.00	0.00	8,310.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,500.00	0.00	0.00	8,410.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,600.00	0.00	0.00	8,510.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,700.00	0.00	0.00	8,610.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,800.00	0.00	0.00	8,710.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
8,900.00	0.00	0.00	8,810.48	-438.00 438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.470
9,000.00	0.00 0.00	0.00 0.00	8,910.48 9,010.48	-438.00 -438.00	-885.57 -885.57	393,864.41 393,864.41	808,547 70 808,547 70	32.0798756 32.0798756	-103.470! -103.470!
9,100.00					-000 07	3M 3 Mh/4 /4 1	0U0 047 7U	17 H/MX/56	=1034/04

Database:

EDM_5000.17 WCDSC Permian NM Company:

Project: Lea County (NAD83 New Mexico East)

Sec 33-T25S-R34E Site: Well: STRANGER 33 FED 301H

Wellbore: Wellbore #1

Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well STRANGER 33 FED 301H GL:3322 20+26ft @ 3348 20ft GL:3322.20+26ft @ 3348.20ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,300.00	0.00	0.00	9,210.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
9,400.00	0.00	0.00	9,310.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
9,500.00	0.00	0.00	9,410.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
9,600.00	0.00	0.00	9,510.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
9,700.00	0.00	0.00	9,610.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
9,800.00	0.00	0.00	9,710.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
9,900.00	0.00	0.00	9,810.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,000.00	0.00	0.00	9,910.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,100.00	0.00	0.00	10,010.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,200.00	0.00	0.00	10,110.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,300.00	0.00	0.00	10,210.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,400.00	0.00	0.00	10,310.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,500.00	0.00	0.00	10,410.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,569.52	0.00	0.00	10,480.00	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
Bone Sp	_		10.510.10	400.00	005.57	000 004 44	000 545 50	00.0700750	100 1705070
10,600.00	0.00	0.00	10,510.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,700.00	0.00	0.00	10,610.48	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
10,789.52	0.00	0.00	10,700.00	-438.00	-885.57	393,864.41	808,547.70	32.0798756	-103.4705973
			L - 2nd BLSM						
10,800.00	1.05	0.00	10,710.48	-437.90	-885.57	393,864.50	808,547.70	32.0798759	-103.4705973
10,850.00	6.05	0.00	10,760.37	-434.81	-885.57	393,867.60	808,547.70	32.0798844	-103.4705972
10,900.00	11.05	0.00	10,809.80	-427.38	-885.57	393,875.02	808,547.70	32.0799048	-103.4705970
10,950.00	16.05	0.00	10,858.39	-415.67	-885.57	393,886.73	808,547.70	32.0799370	-103.4705967
11,000.00	21.05	0.00	10,905.78	-399.77	-885.57	393,902.63	808,547.70	32.0799807	-103.4705963
11,044.95	25.54	0.00	10,947.05	-382.00	-885.57	393,920.41	808,547.70	32.0800295	- 103.4705958
	044.95'MD_10			070.00	005.57	000 000 00	000 547 70	00 0000050	100 1705050
11,050.00	26.05	0.00	10,951.60	-379.80	-885.57	393,922.60	808,547.70	32.0800356	-103.4705958
11,100.00	31.05	0.00	10,995.51	-355.91	-885.57	393,946.49	808,547.70	32.0801012	-103.4705952
11,150.00	36.05	0.00	11,037.17	-328.29	-885.57	393,974.11	808,547.70	32.0801772	-103.4705944
11,200.00	41.05	0.00	11,076.26	-297 14	-885.57	394,005.26	808,547.70	32.0802628	-103.4705936
11,250.00	46.05	0.00	11,112.49	-262.71	-885.57	394,039.70	808,547.70	32.0803574	-103.4705928
11,300.00	51.05 56.05	0.00	11,145.58	-225.24	-885.57	394,077.16	808,547.70	32.0804604	-103.4705918
11,350.00		0.00	11,175.27	-185.04	-885.57	394,117.37	808,547.70	32.0805709	-103.4705908
11,400.00	61.05	0.00	11,201.35	-142.40	-885.57	394,160.01	808,547.70	32.0806881	-103.4705896
11,450.00	66.05	0.00	11,223.62	-97.65	-885.57	394,204.76	808,547.70	32.0808111 32.0809390	-103.4705885
11,500.00 11,550.00	71.05 76.05	0.00 0.00	11,241.90 11,256.06	-51.12 -3.19	-885.57 -885.57	394,251.28 394,299.22	808,547.70 808,547.70	32.0809390	-103.4705873 -103.4705861
· ·									
11,600.00 11,650.00	81.05 86.05	0.00 0.00	11,265.98 11,271.60	45.80 95.47	-885.57 -885.57	394,348.21 394,397.88	808,547.70 808,547.70	32.0812054 32.0813419	-103.4705848 -103.4705835
· ·			11,271.60 11,272.06				808,547.70 808,547.70		
11,689.52 11,700.00	90.00 90.00	0.00 0.00	11,272.96 11,272.96	134.96 145.44	-885.57 -885.57	394,437.36 394,447.84	808,547.70 808,547.70	32.0814505 32.0814793	-103.4705825 -103.4705822
11,800.00	90.00	0.00	11,272.96	245.44	-885.57	394,547.84 394,547.84	808,547.70	32.0817542	-103.4705796
11,900.00	90.00	0.00	11,272.96	345.44 345.44	-885.57	394,647.84	808,547.70	32.0820290	-103.4705796
12,000.00	90.00	0.00	11,272.96	345.44 445.44	-885.57	394,747.84	808,547.70	32.082323039	-103.4705745
12,100.00	90.00	0.00	11,272.96	545.44	-885.57	394,847.84	808,547.70	32.0825787	-103.4705749
12,100.00	90.00	0.00	11,272.96	645.44	-885.57	394,947.84 394,947.84	808,547.70	32.0828536	-103.4705719
12,300.00	90.00	0.00	11,272.96	745.44	-885.57	395,047.84	808,547.70	32.0831285	-103.4705667
12,400.00	90.00	0.00	11,272.96	845.44	-885.57	395,147.84	808,547.70	32.0834033	-103.4705641
12,500.00	90.00	0.00	11,272.96	945.44	-885.57	395,247.84	808,547.70	32.0836782	-103.4705616
12,600.00	90.00	0.00	11,272.96	1,045.44	-885.57	395,347.84	808,547.70	32.0839531	-103.4705590
12,700.00	90.00	0.00	11,272.96	1,145.44	-885.57	395,447.84	808,547.70	32.0842279	-103.4705564
12,700.00	90.00	0.00	11,272.96	1,145.44	-885.57	395,547.84	808,547.70	32.0845028	-103.4705538
12,800.00	90.00	0.00	11,272.96	1,345.44	-885.57	395,647.84	808,547.70	32.0847777	-103.4705512
13,000.00	90.00	0.00	11,272.96	1,445.44	-885.57	395,747.84	808,547.70	32.0850525	-103.4705486
13,000.00	90.00	0.00	11,414.50	1,770.44	-000.01	333,141.04	000,047.70	32.0030323	-100.4700400

Database: EDM_5000.17
Company: WCDSC Permian NM

Company: WCDSC Permian NM
Project: Lea County (NAD83 New Mexico East)

 Site:
 Sec 33-T25S-R34E

 Well:
 STRANGER 33 FED 301H

Wellbore: Wellbore #1

Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well STRANGER 33 FED 301H GL:3322.20+26ft @ 3348.20ft GL:3322.20+26ft @ 3348.20ft

Grid

anned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,100.00	90.00	0.00	11,272.96	1,545.44	-885.57	395,847.84	808,547.70	32.0853274	-103.4705461
13,200.00	90.00	0.00	11,272.96	1,645.44	-885.57	395,947.84	808,547.70	32.0856023	-103.4705435
13,300.00	90.00	0.00	11,272.96	1,745.44	-885.57	396,047.84	808,547.70	32.0858771	-103.4705409
13,400.00	90.00	0.00	11,272.96	1,845.44	-885.57	396,147.84	808,547.70	32.0861520	-103.4705383
13,500.00	90.00	0.00	11,272.96	1,945.44	-885.57	396,247.84	808,547.70	32.0864269	-103.4705357
13,600.00	90.00	0.00	11,272.96	2,045.44	-885.57	396,347.84	808,547.70	32.0867017	-103.4705331
13,700.00	90.00	0.00	11,272.96	2,145.44	-885.57	396,447.84	808,547.70	32.0869766	-103.4705306
13,800.00	90.00	0.00	11,272.96	2,245.44	-885.57	396,547.84	808,547.70	32.0872515	-103.4705280
13,900.00	90.00	0.00	11,272.96	2,345.44	-885.57	396,647.84	808,547.70	32.0875263	-103.4705254
14,000.00	90.00	0.00	11,272.96	2,445.44	-885.57	396,747.84	808,547.70	32.0878012	-103.4705228
14,100.00	90.00	0.00	11,272.96	2,545.44	-885.57	396,847.84	808,547.70	32.0880760	-103.4705202
14,200.00	90.00	0.00	11,272.96	2,645.44	-885.57	396,947.84	808,547.70	32.0883509	-103.4705177
14,300.00	90.00	0.00	11,272.96	2,745.44	-885.57	397,047.84	808,547.70	32.0886258	-103.4705151
14,400.00	90.00	0.00	11,272.96	2,845.44	-885.57	397,147.84	808,547.70	32.0889006	-103.4705125
14,500.00	90.00	0.00	11,272.96	2,945.44	-885.57	397,247.84	808,547.70	32.0891755	-103.4705099
14,600.00	90.00	0.00	11,272.96	3,045.44	-885.57	397,347.84	808,547.70	32.0894504	-103.4705073
14,700.00	90.00	0.00	11,272.96	3,145.44	-885.57	397,447.84	808,547.70	32.0897252	-103.4705047
14,800.00	90.00	0.00	11,272.96	3,245.44	-885.57	397,547.84	808,547.70	32.0900001	-103.4705022
14,900.00	90.00	0.00	11,272.96	3,345.44	-885.57	397,647.84	808,547.70	32.0902750	-103.4704996
14,922.52	90.00	0.00	11,272.96	3,367.96	-885.57	397,670.36	808,547.70	32.0903369	-103.4704990
15,000.00	90.46	356.63	11,272.65	3,445.39	-887.85	397,747.79	808,545.43	32.0905498	-103.4705043
15,100.00	91.06	352.28	11,271.32	3,544.89	-897.51	397,847.29	808,535.77	32.0908235	-103.4705330
15,200.00	91.64	347.93	11,268.97	3,643.35	-914.69	397,945.75	808,518.59	32.0910945	-103.4705859
15,300.00	92.22	343.57	11,265.59	3,740.20	-939.28	398,042.60	808,494.00	32.0913612	-103.4706628
15,400.00	92.79	339.22	11,261.22	3,834.86	-971.14	398,137.26	808,462.13	32.0916221	-103.4707632
15,500.00	93.33	334.85	11,255.88	3,926.78	-1,010.09	398,229.18	808,423.18	32.0918756	-103.4708866
15,600.00	93.86	330.49	11,249.60	4,015.42	-1,055.90	398,317.82	808,377.38	32.0921203	-103.4710322
15,700.00	94.37	326.12	11,242.42	4,100.26	-1,108.29	398,402.66	808,324.98	32.0923546	-103.4711992
15,800.00	94.85	321.74	11,234.37	4,180.81	-1,166.97	398,483.21	808,266.31	32.0925773	-103.4713866
15,900.00	95.31	317.35	11,225.51	4,256.59	-1,231.58	398,558.98	808,201.70	32.0927870	-103.4715932
16,000.00	95.73	312.96	11,215.89	4,327.15	-1,301.75	398,629.55	808,131.53	32.0929825	-103.4718180
16,100.00	96.12	308.57	11,205.56	4,392.08	-1,377.06	398,694.48	808,056.22	32.0931626	-103.4720595
16,200.00	96.47	304.17	11,194.58	4,451.01	-1,457.08	398,753.40	807,976.20	32.0933263	-103.4723163
16,300.00	96.79	299.76	11,183.03	4,503.58	-1,541.33	398,805.97	807,891.95	32.0934727	-103.4725870
16,325.26	96.86	298.64	11,180.03	4,515.81	-1,563.22	398,818.21	807,870.06	32.0935068	-103.4726573
Start No	Perf (TP#2)@	16325.26'MD							
16,400.00	97.07	295.34	11,170.96	4,549.48	-1,629.32	398,851.88	807,803.96	32.0936008	-103.4728699
16,500.00	97.30	290.93	11,158.45	4,588.46	-1,720.53	398,890.85	807,712.75	32.0937099	-103.4731634
16,600.00	97.49	286.50	11,145.58	4,620.27	-1,814.43	398,922.66	807,618.85	32.0937994	-103.4734658
16,700.00	97.64	282.08	11,132.41	4,644.73	-1,910.47	398,947.13	807,522.81	32.0938688	-103.4737752
16,800.00	97.74	277.65	11,119.02	4,661.70	-2,008.08	398,964.10	807,425.20	32.0939175	-103.4740900
16,900.00	97.80	273.22	11,105.50	4,671.08	-2,106.69	398,973.48	807,326.59	32.0939455	-103.4744081
17,000.00	97.81	268.79	11,091.92	4,672.82	-2,205.72	398,975.21	807,227.56	32.0939524	-103.4747278
17,100.00	97.77	264.36	11,078.36	4,666.90	-2,304.60	398,969.29	807,128.68	32.0939383	-103.4750473
17,200.00	97.69	259.93	11,064.90	4,653.35	-2,402.73	398,955.75	807,030.55	32.0939032	-103.4753645
17,300.00	97.56	255.50	11,051.62	4,632.26	-2,499.55	398,934.66	806,933.73	32.0938474	-103.4756776
17,400.00	97.39	251.08	11,038.60	4,603.76	-2,594.49	398,906.15	806,838.79	32.0937711	-103.4759849
17,500.00	97.18	246.66	11,025.92	4,568.00	-2,686.99	398,870.40	806,746.29	32.0936748	-103.4762845
17,600.00	96.92	242.24	11,013.64	4,525.20	-2,776.50	398,827.60	806,656.78	32.0935592	-103.4765746
17,674.06	96.70	238.97	11,004.86	4,489.12	-2,840.56	398,791.51	806,592.72	32.0934614	-103.4767824
	Peft (TP#3)@1		44.054.55		0.005 = :	000 === :	000 5-0	00.000.00	460 4-00
17,700.00	96.62	237.83	11,001.85	4,475.62	-2,862.51	398,778.01	806,570.77	32.0934247	-103.4768536
17,800.00	96.28	233.42	10,990.60	4,419.53	-2,944.50	398,721.92	806,488.78	32.0932724	-103.4771197
17,900.00	95.91	229.02	10,979.97	4,357.27	-3,022.00	398,659.67	806,411.28	32.0931029	-103.4773716

Database: EDM_5000.17
Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

 Site:
 Sec 33-T25S-R34E

 Well:
 STRANGER 33 FED 301H

Wellbore: Wellbore #1

Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well STRANGER 33 FED 301H GL:3322.20+26ft @ 3348.20ft GL:3322.20+26ft @ 3348.20ft

Grid

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,000.00	95.50	224.63	10,970.02	4,289.21	-3,094.55	398,591.60	806,338.73	32.0929174	-103.4776076
18,100.00	95.06	220.25	10,960.81	4,215.74	-3,161.72	398,518.13	806,271.56	32.0927170	-103.4778263
18,200.00	94.59	215.87	10,952.39	4,137.29	-3,223.13	398,439.69	806,210.15	32.0925027	-103.478026
18,300.00	94.10	211.49	10,944.81	4,054.34	-3,278.41	398,356.73	806,154.87	32.0922759	-103.478207
18,400.00	93.58	207.12	10,938.11	3,967.35	-3,327.23	398,269.75	806,106.05	32.0920378	-103.478367
18,500.00	93.04	202.76	10,932.34	3,876.85	-3,369.32	398,179.25	806,063.96	32.0917900	-103.478505
18,600.00	92.48	198.40	10,927.53	3,783.36	-3,404.42	398,085.76	806,028.86	32.0915338	-103.478621
18,700.00	91.91	194.04	10,923.70	3,687.44	-3,432.32	397,989.83	806,000.96	32.0912707	-103.478713
18,800.00	91.32	189.69	10,920.88	3,589.64	-3,452.87	397,892.03	805,980.41	32.0910024	-103.478782
18,900.00	90.73	185.34	10,919.09	3,490.53	-3,465.94	397,792.93	805,967.34	32.0907303	-103.478827
19,001.64	90.13	180.92	10,918.33	3,389.07	-3,471.49	397,691.47	805,961.79	32.0904515	-103.478847
19,100.00	90.13	180.92	10,918.11	3,290.73	-3,473.07	397,593.13	805,960.21	32.0901812	-103.478855
19,200.00	90.13	180.92	10,917.89	3,190.74	-3,474.67	397,493.14	805,958.61	32.0899064	-103.478863
19,300.00	90.13	180.92	10,917.68	3,090.75	-3,476.27	397,393.15	805,957.01	32.0896316	-103.478870
19,400.00	90.13	180.92	10,917.46	2,990.77	-3,477.87	397,293.17	805,955.41	32.0893568	-103.478878
19,500.00	90.13	180.92	10,917.24	2,890.78	-3,479.48	397,193.18	805,953.80	32.0890820	-103.478886
19,600.00	90.13	180.92	10,917.02	2,790.79	-3,481.08	397,093.19	805,952.20	32.0888072	-103.478893
19,700.00	90.13	180.92	10,916.80	2,690.81	-3,482.68	396,993.21	805,950.60	32.0885324	-103.478901
19,800.00	90.13	180.92	10,916.58	2,590.82	-3,484.28	396,893.22	805,949.00	32.0882576	-103.478909
19,900.00	90.13	180.92	10,916.36	2,490.83	-3,485.89	396,793.23	805,947.39	32.0879829	-103.478917
20,000.00	90.13	180.92	10,916.14	2,390.84	-3,487.49	396,693.24	805,945.79	32.0877081	-103.478924
20,100.00	90.13	180.92	10,915.92	2,290.86	-3,489.09	396,593.26	805,944.19	32.0874333	-103.478932
20,200.00	90.13	180.92	10,915.70	2,190.87	-3,490.70	396,493.27	805,942.59	32.0871585	-103.478940
20,300.00	90.13	180.92	10,915.48	2,090.88	-3,492.30	396,393.28	805,940.98	32.0868837	-103.478948
20,400.00	90.13	180.92	10,915.26	1,990.90	-3,493.90	396,293.30	805,939.38	32.0866089	-103.478955
20,500.00	90.13	180.92	10,915.04	1,890.91	-3,495.50	396,193.31	805,937.78	32.0863341	-103.478963
20,600.00	90.13	180.92	10,914.82	1,790.92	-3,497.11	396,093.32	805,936.17	32.0860593	-103.47897
20,700.00	90.13	180.92	10,914.60	1,690.94	-3,498.71	395,993.34	805,934.57	32.0857845	-103.478979
20,800.00	90.13	180.92	10,914.38	1,590.95	-3,500.31	395,893.35	805,932.97	32.0855097	-103.478986
20,900.00	90.13	180.92	10,914.16	1,490.96	-3,501.91	395,793.36	805,931.37	32.0852349	-103.478994
21,000.00	90.13	180.92	10,913.94	1,390.98	-3,503.52	395,693.38	805,929.76	32.0849601	-103.479002
21,100.00	90.13	180.92	10,913.72	1,290.99	-3,505.12	395,593.39	805,928.16	32.0846853	-103.479009
21,200.00	90.13	180.92	10,913.50	1,191.00	-3,506.72	395,493.40	805,926.56	32.0844105	-103.479017
21,300.00	90.13	180.92	10,913.28	1,091.01	-3,508.33	395,393.42	805,924.96	32.0841357	-103.479025
21,400.00	90.13	180.92	10,913.06	991.03	-3,509.93	395,293.43	805,923.35	32.0838609	-103.479033
21,500.00	90.13	180.92	10,912.84	891.04	-3,511.53	395,193.44	805,921.75	32.0835861	-103.479040
21,600.00	90.13	180.92	10,912.62	791.05	-3,513.13	395,093.46	805,920.15	32.0833113	-103.479048
21,700.00	90.13	180.92	10,912.40	691.07	-3,514.74	394,993.47	805,918.54	32.0830365	-103.479056
21,800.00	90.13	180.92	10,912.18	591.08	-3.516.34	394,893.48	805,916.94	32.0827618	-103.479064
21,900.00	90.13	180.92	10,911.96	491.09	-3,517.94	394,793.50	805,915.34	32.0824870	-103.47907
22,000.00	90.13	180.92	10,911.74	391.11	-3,519.54	394,693.51	805,913.74	32.0822122	-103.479079
22,100.00	90.13	180.92	10,911.52	291.12	-3,521.15	394,593.52	805,912.13	32.0819374	-103.479087
22,200.00	90.13	180.92	10,911.30	191.13	-3,522.75	394,493.54	805,910.53	32.0816626	-103.47909
22,300.00	90.13	180.92	10,911.08	91.15	-3,524.35	394,393.55	805,908.93	32.0813878	-103.479102
22,400.00	90.13	180.92	10,911.06	-8.84	-3,525.95	394,293.56	805,907.33	32.0811130	-103.47910
22,500.00	90.13	180.92	10,910.64	-108.83	-3,523.93 -3,527.56	394,193.58	805,905.72	32.0808382	-103.479116
22,600.00	90.13	180.92	10,910.64	-106.63	-3,527.56 -3,529.16	394,093.59	805,903.72	32.0805634	-103.479116
22,700.00	90.13	180.92	10,910.42	-308.80	-3,530.76	393,993.60	805,902.52	32.0802886	-103.47913
22,700.00	90.13	180.92		-306.60 -390.14		393,993.60	805,902.52 805,901.21	32.0800651	-103.47913
•			10,910.02		-3,532.07 -3,532.24	•	·		-103.47913
22,802.46	90.00	180.00 180.00	10,910.00	-411.25 411.68	-3,532.24 3,532.24	393,891.15	805,901.04 805 901 04	32.0800070	
22,802.89	90.00	180.00	10,910.00	-411.68	-3,532.24	393,890.73	805,901.04	32.0800059	-103.479141
	02.89'MD	400.00	40.040.00	404.00	0.500.04	000 040 70	005 004 04	00.0707000	400 470 : : :
22,882.89	90.00	180.00	10,910.00	-491.68	-3,532.24	393,810.73	805,901.04	32.0797860	-103.479143

Database: EDM_5000.17
Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

 Site:
 Sec 33-T25S-R34E

 Well:
 STRANGER 33 FED 301H

Wellbore: Wellbore #1

Design: Plat R1 (1320FEL-1320FWL) 2BSLM LOWER

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

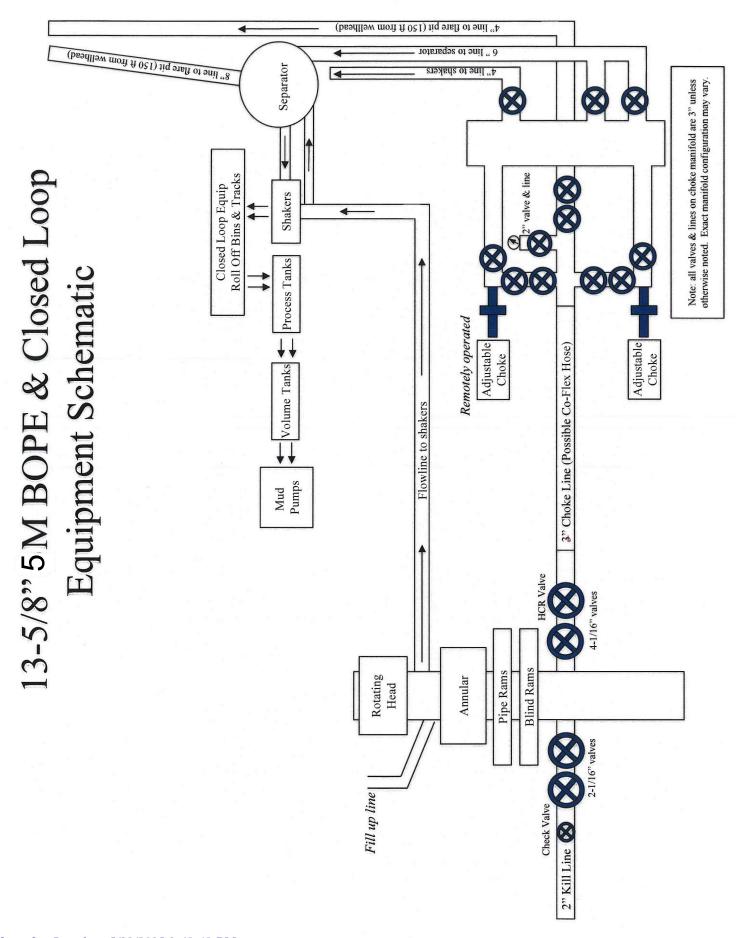
Well STRANGER 33 FED 301H GL:3322.20+26ft @ 3348.20ft GL:3322.20+26ft @ 3348.20ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Str.301H) 100FSL, - plan misses target - Point		0.00 .84ft at 0.00f	0.00 t MD (0.00 T	-388.01 VD, 0.00 N, 0	-885.57 0.00 E)	393,914.40	808,547.70	32.0800130	-103.4705960
TP#2 (267FNI, 1956FEL - plan misses target - Point		0.00 9.18ft at 0.00	0.00 Oft MD (0.00	4,515.81 TVD, 0.00 N,	-1,564.62 0.00 E)	398,818.21	807,868.66	32.0935068	-103.4726619
TP#3 (283FNI, 2057FWI - plan misses target - Point		0.00 1.79ft at 0.00	0.00 Oft MD (0.00	4,489.12 TVD, 0.00 N,	-2,839.52 0.00 E)	398,791.52	806,593.76	32.0934614	-103.4767790
LTP (Str.301H) 100FSL, - plan hits target cer - Point		0.00	10,910.00	-411.25	-3,532.24	393,891.15	805,901.04	32.0800070	-103.4791410

ations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	840.00	840.00	Rustler			
	1,220.00	1,220.00	Salt			
	5,086.98	5,030.00	Base of Salt			
	5,356.94	5,295.00	Delaware			
	6,411.34	6,330.00	Cherry Canyon			
	8,024.52	7,935.00	Brushy Canyon			
	10,569.52	10,480.00	Bone Spring 1st			
	10,789.52	10,700.00	2nd BLSM			

Plan Annotations						
Measured Vertical		Local Coord	dinates			
Der (fi		Depth (ft)	+N/-S	+E/-W	Comment	
(11)	•9	(11)	(ft)	(ft)	Comment	
10,7	789.52	10,700.00	-438.00	-885.57	KOP@10789.52'MD_50FSL, 1320FEL	
11,0)44.95	10,947.05	-382.00	-885.57	FTP@11044.95'MD_100FSL, 1320FEL	
16,3	325.26	11,180.03	4,515.81	-1,563.22	Start No Perf (TP#2)@16325.26'MD	
17,6	674.06	11,004.86	4,489.12	-2,840.56	End No Peft (TP#3)@17674.06'MD	
22,8	302.89	10,910.00	-411.68	-3,532.24	LTP@22802.89'MD	



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.

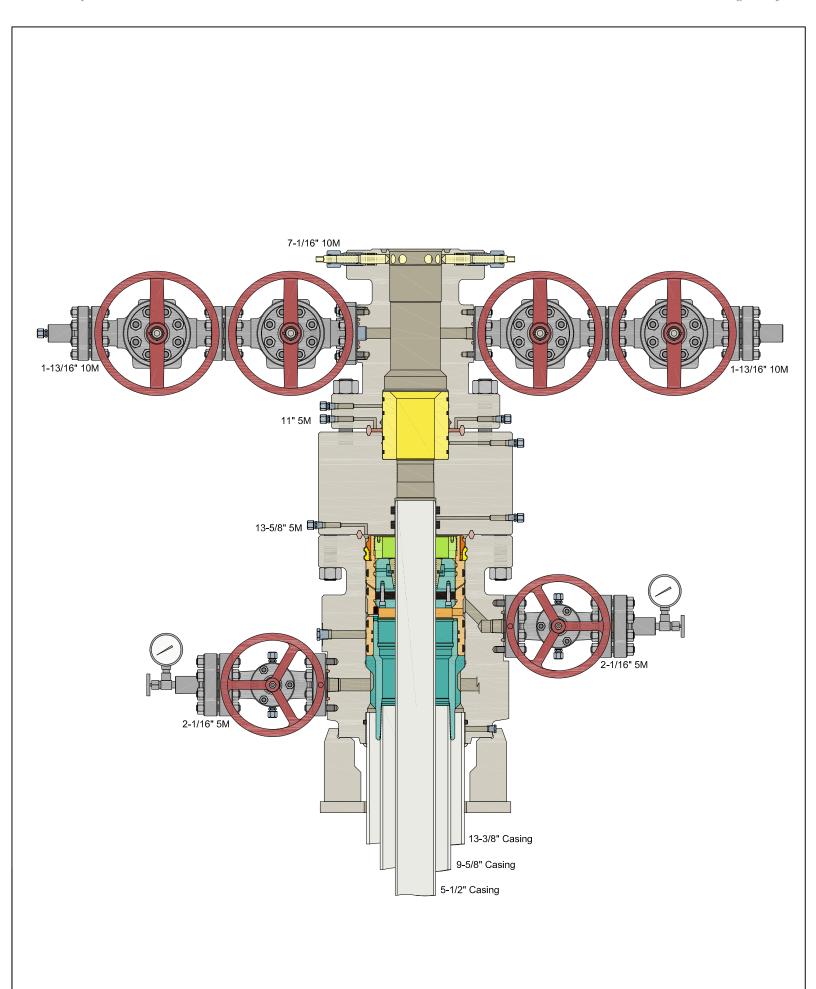
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial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



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 above TOC	None			
Cementing	Wet cement weight	Water (8.33ppg)			

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

Casing Assumptions and Load Cases

Intermediate

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 above TOC	None			
Cementing	Wet cement weight	Water (8.33ppg)			

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

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	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
	Section 33, T.25 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:
ATS/API ID:
ATS-24-3005
APD ID:
Sundry ID:
N/a

Stranger 33 Fed 301H
ATS-24-3005
10400101127
N/a

COA

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

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 950 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 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.

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

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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.

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

C. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. Annular which shall be tested to 2100 (70% Working Pressure) 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.

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D. SPECIAL REQUIREMENT (S)

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at Lea County: 575-689-5981.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ✓ Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 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
 - 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, cutoff 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.
- The results of the test shall be reported to the appropriate BLM office.
- 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.
- 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) 2/21/2025



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

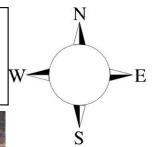
Stranger 33 Fed 301H

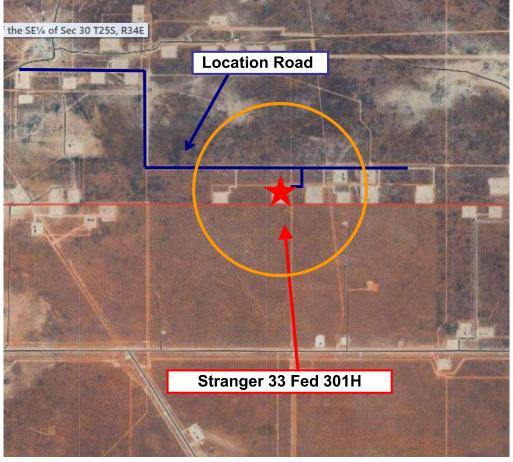
Sec-33 T-25S R-34E 480' FSL & 431' FEL LAT. = 32.081060' N (NAD83) LONG = 103.467727' W

Lea County NM

Stranger 33 Fed 301H

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

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.

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 10 ppm. Sensor locations:

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

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

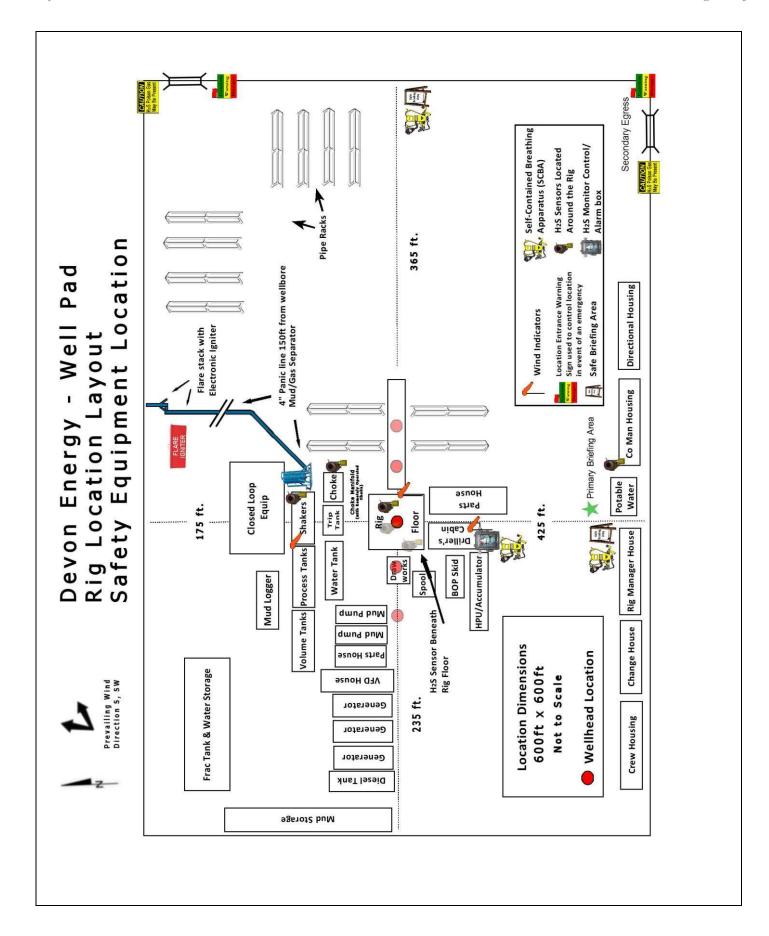
7. Well testing:

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

Devon Energy Corp. Company Call List				
Employee/Company Contact Representative	Position	Phone Number	After Hours Number	
Jonathan Fisher (North)	Drilling Manager	832-967-7912		
Jason Hildebrand (South)	Drilling Manager	405-552-6514		
Rich Downey	Drilling VP	405-228-2415		
Josh Harvey	EHS Manager	405-228-2440	918-500-5536	
Laura Wright	EHS Supervisor	405-552-5334	832-969-8145	
Robert Glover	EHS Professional	575-703-5712	575-703-5712	
Lane Frank	Lead EHS	580-579-7052	580-579-7052	
Rickey Porter	Lead EHS	903-720-8315	903-720-8315	
Ronnie Handy	Lead EHS	918-839-2046	918-839-2046	
Brock Vise	Lead EHS	918-413-3291	918-413-3291	

Agency	Call List	
Lea	Hobbs	
County	Lea County Communication Authority	397-9265
<u>(575)</u>	State Police	885-3138
	City Police	397-9265
	Sheriff's Office	396-3611
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management (Closed)	393-0002
<u>Eddy</u>	Carlsbad	
County	State Police	885-3137
<u>(575)</u>	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	234-5972
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 699-0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
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





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 441090

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	441090
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
wsalter	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/11/2025
wsalter	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/11/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	5/28/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	5/28/2025
matthew.gomez	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.	5/28/2025
matthew.gomez	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.	5/28/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	5/28/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	5/28/2025