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. NMNM19609 **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: Gas Well Oil Well Other OTH 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone STEEL GUITAR 35-26 FED COM 451H 9. API Well No. 2. Name of Operator WPX ENERGY PERMIAN LLC 30-015-49377 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3500 One Williams Center, Tulsa, OK 74172 (539) 573-0212 State Line/Purple Sage Wolfcamp Gas Po 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 26/T26S/R29E/NMP At surface NENW / 423 FNL / 1797 FWL / LAT 32.0186081 / LONG -103.9568921 At proposed prod. zone LOT 9 / 50 FSL / 330 FWL / LAT 32.0002388 / LONG -103.9628936 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13. State **EDDY** NM 16 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest property or lease line, ft. 862.0 (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, 521 feet 10271 feet / 17322 feet FED: NMB001889 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 2890 feet 04/01/2020 30 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 Name (Printed/Typed) Date 25. Signature MELISSA KINDLE / Ph: (539) 573-0212 (Electronic Submission) 10/08/2020 Title Regulatory Tech Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) Cody Layton / Ph: (575) 234-5959 09/07/2021 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

APPROVED WITH CONDITIONS Released to Imaging: 3/21/2022 2:11:41 PM Approval Date: 09/07/2021

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.

applicant to conduct operations thereon. Conditions of approval, if any, are attached. DISTRICT 1

LG2S N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II

BILS First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

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DISTRICT IV

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

Phone: (505) 746-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

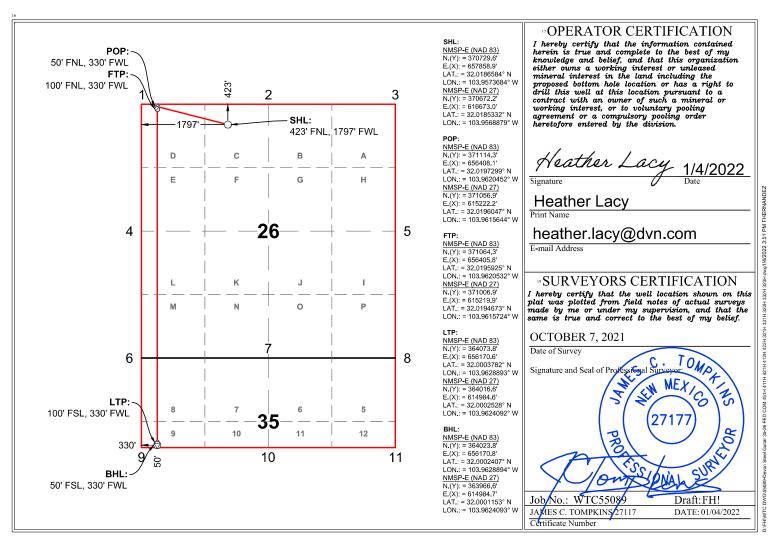
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-49	PI Number 9377			² Pool Code 98220		PURPLE SA	³ Pool Name AGE WOLFCAM	P GAS POOL	
⁴ Property Co	ode			STEEL	Property Name GUITAR 35-26	FED COM		6 Well Nu 451	
⁷ OGRID N 24628				WPX I	*Operator Name ENERGY PERI	MIAN, LLC		°Elevati 2887	
					Surface Locat	ion			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	26	26-S	29-E		423	NORTH	1797	WEST	EDDY
			"Bott	om Hole I	Location If Diffe	erent From Surfac	ee		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L9	35	26-S	29-E		50	SOUTH	330	WEST	EDDY
¹² Dedicated Acres 862.40	¹³ Joint or	Infill	¹⁴ Consolidated Cod	de 15 Orde	r No.	,	1	1	1

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



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: WPX Energ	y Permian, LLC		OGRID:	246289	Date:	03 / 02 / 2022
II. Type: ☒ Original ☐] Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C □ 19.15.27.9.D((6)(b) NMAC 🗆 (Other.
If Other, please describe	:					
III. Well(s): Provide the be recompleted from a si					wells proposed to	be drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See attachment						
V. Anticipated Schedul proposed to be recomple Well Name	e: Provide the	following informa			vell or set of wells Initial F	l I
See attachment						
VII. Operational Pract Subsection A through F	ices: Attac of 19.15.27.8	h a complete desc NMAC.	ription of the ac	tions Operator wil	l take to comply	at to optimize gas capture. with the requirements of tices to minimize venting

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) connec	ting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily cap	acity 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	□ will □ will r	ot have capacity	to gather	100% of the	anticipated	natural gas
production	volume from the well	prior to the date of first	st production.					

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

XIV.	Confidentiality: [\square Operator assert	s confidentiality	pursuant to	Section	71-2-8 N	√MSA	1978 fc	or the	information	provided in
Section	on 2 as provided in	Paragraph (2) of S	ubsection D of 1	19.15.27.9 NI	MAC, an	d attaches	s a full	descript	tion of	the specific	information
for w	hich confidentiality	is asserted and th	e basis for such	assertion.							

Section 3 - Certifications

Effective May 25, 2021

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

- 🖾 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or
- D 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. □ 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. □ 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:

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (t) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (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:	Mich Cook	_			_	7
Printed Name:	Michael Cook					
Title:	Manager		, 0			
E-mail Address:	michael.cook@dvn.com					
Date: 03/	10/2022					
Phone:	(405) 228-2453	New York				
			ATION DIVISIO mitted as a stand)	
Approved By:						
Title:				1		
Approval Date:						
Conditions of Appro	val:		u u			



VI. Separation Equipment

WPX Energy Permian, LLC (WPX) 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. WPX 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

WPX Energy Permian, LLC 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, WPX will utilize flares and/or combustors to capture and control
 natural gas, where technically feasible. If flaring is deemed technically in-feasible, WPX will
 employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, WPX will utilize Green Completion methods to capture gas
 produced during well completions that is otherwise vented or flared. If capture is technically infeasible, 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, WPX will turn operations to onsite separation vessels and flow to the gathering
 pipeline.
- During production operations, WPX 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
 - 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

WPX Energy Permian, LLC will utilize best management practices to minimize venting during active and planned maintenance activities. WPX 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. WPX 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.

NATURAL GAS MANAGEMENT PLAN Section 1 - Plan Description

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.

						Anticipated Oil	Anticipated Gas	Anticipated Produced Water	Central Delivery Point
Well Name	API	n	LSTR	FOOTAGES	ES	BBL/D	MCF/D	BBL/D	Name:
Steel Guitar 35-26 Fed Com 451H		C	26-26S-29E	1797 FWL	423 FNL	pdoq68/(-/+)	(+/-)9914mcfd	(+/-)7719bwpd	STEEL GUITAR WEST 26 PAD 1
Steel Guitar 35-26 Fed Com 411H		C	26-26S-29E	1827 FWL	426 FNL	(+/-)1621bopd	(+/-)7494mcfd	pdwq6/9/(-/+)	STEEL GUITAR WEST 26 PAD 1
Steel Guitar 35-26 Fed Com 421H		C	26-26S-29E	1857 FWL	430 FNL	(+/-)1621bopd	(+/-)7494mcfd	pdwq6/9/(-/+)	STEEL GUITAR WEST 26 PAD 1
Steel Guitar 35-26 Fed Com 412H		c	26-26S-29E	1887 FWL	1173 FNL	(+/-)1621bopd	(+/-)7494mcfd	pdwq6/9/(-/+)	STEEL GUITAR WEST 26 PAD 1
Steel Guitar 35-26 Fed Com 422H		C	26-26S-29E	1917 FWL	1792 FSL	(+/-)1621bopd	(+/-)7494mcfd	pdwq6292(-/+)	STEEL GUITAR WEST 26 PAD 1

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.

				Completion		First
			TD Reached	Commencem Initial Flow Production	Initial Flow	Production
Well Name	API	Spud Date	Date	ent Date	back Date	Date
Steel Guitar 35-26 Fed Com 451H	n/a	4/22/2022	5/22/2022		9/19/2022 9/19/2022	9/19/2022
Steel Guitar 35-26 Fed Com 411H	n/a	8/27/2023	9/26/2023	1/24/2024	1/24/2024	1/24/2024
Steel Guitar 35-26 Fed Com 421H	n/a	8/19/2023	9/18/2023	1/16/2024	1/16/2024	1/16/2024
Steel Guitar 35-26 Fed Com 412H	n/a	8/24/2023	9/23/2023	1/21/2024	1/21/2024	1/21/2024
Steel Guitar 35-26 Fed Com 422H	n/a	8/22/2023	9/21/2023	1/19/2024	1/19/2024	1/19/2024

^{*} Dates subject to change

WPX Energy Permian, LLC

Drilling Plan

Well Steel Guitar 35-26 Fed Com 451H

Surface: 423'FNL, 1797'FWL (S26) T26S R29E Sec 26 Location Bottom Hole: 50'FSL, 330'FWL (S35) T26S R29E Sec 35

County/State Eddy, NM

> The elevation of the unprepared ground is 2,888 feet above sea level.

The geologic name of the surface formation is Quaternary

A rotary rig will be utilized to drill the well to 18049' MD, then will be cased and cemented. This equipment will then be rigged down and the well will be completed with a workover rig.

Proposed depth is 18,049 feet MD.

1) Estimated Tops:

Formation Name	MD	TVD	Bearing	BHP (psi)	MASP (psi)
Quaternary	0	0	Water		
Bell Canyon	3003	2977	Oil/Gas		
Cherry Canyon	4077	4031	Oil/Gas		
Brushy Canyon	5156	5091	Oil/Gas		
Bone Spring 1st	7786	7672	Oil/Gas		
Bone Spring 2nd	8417	8292	Oil/Gas		
Bone Spring 3rd	9696	9555	Oil/Gas		
KOP	10628	10487	Oil/Gas		
Wolfcamp	10042	9901	Oil/Gas		
Landing Point (Wolfcamp)	11528	11060	Oil/Gas		
TD	18049	11060	Oil/Gas	7,476	5,043

2) Notable Formations:

Any usable fresh water zones encountered will be adequately protected and reported. All usable water zones, potential hydrocarbon zones, and valuable mineral zones will be isolated.

Useable water will be protected by surface casing set and cemented to surface.

3) Pressure Control Equipment:

The blowout preventer equipment (BOPE) will consist of 3 rams (10,000 psi WP) with 2 pipe rams (one of which may be variable), 1 blind ram and 1 annular preventer (5,000 psi WP) will be installed. The BOPE will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. A rotating head will be installed as needed. Units will be hydraulically operated.

An accumulator that meets the requirements of Onshore Order 2 for the pressure rating of the BOP stack will be present.

BOPE will be inspected and operated as recommended in Onshore Order 2. A third party company will test the BOPE. After surface casing is set and the BOPE is nippled up, pressure tests will be conducted to 250 psi low and 5000 psi high (50% of WP) with the annular tested to 250 psi low and 2500 psi high (50% of WP).

A 20" x 13-3/8" x 9-5/8" x 7" 10M multi-bowl wellhead w/ 9-5/8" and 7" mandrel hangers will be install after setting surface casing and utilized until total depth is reached. The 9-5/8" and 7" casings will be set using a mandrel in the casing head and the stack will not be retested at these casing points.

The following BOPE will be installed, tested and operational:

- Drilling spool or blowout preventer with two (2) side outlets;
 - Choke line side shall be 3" minimum diameter;
 - Two (2) adjustable chokes with one (1) remotely controlled from the rig floor and pressure gauge.
 - Kill side shall be at least 2" diameter;
 - Two (2) manual valves and one (1) check valve.

Auxiliary equipment is as follows:

- Upper kelly cock valve with a handle available;
- Lower kelly cock valve with a handle available;
- A float valve will be used in the drill string, either in a float sub or in the mud motor;
- Safety valves and subs with a full opening sized to fit all drill strings and collars will be available on the rig floor in

the open position.

WPX Energy Permian, LLC requests a variance to drill this well using a co-flex line between the BOP and the choke manifold. Certification for proposed co-flex hose is attached. The hose is required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

4) Casing Program:

Section	Hole Size	Top (MD)	Bottom (MD)	Bottom (TVD)	Casing OD	Weight (ppf)	Grade	Threads
Surf	17-1/2"	0	1,313	1,313	13-3/8"	54.5	J-55	BT&C
Int_1	12-1/4"	0	3,003	2,977	9-5/8"	40.0	J-55	BT&C
Int_2	8-3/4"	0	11,528	11,060	7"	29.0	VAXP P-110	BT&C
Prod	6-1/8"	10,628	18,049	11,060	4-1/2"	13.5	HCP-110	VARN

Safety	Safety Factors							
Collapse	1.125							
Burst	1.000							
Tension	1.600							

	Design Factors										
Section	Section Collapse Burst Tension										
Surf	1.96	9.45	7.19								
Int_1	1.96	6.03	4.33								
Int_2	2.32	5.69	3.16								
Prod	2.19	5.10	4.42								

Centralizers will be run as follows:

- One (1) centralizer on each of the bottom three jts of casing beginning with the shoe jt;
- One (1) centralizer every third jt from above bottom three jts to planned top of cement (TOC).

5) Cement Program:

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)					
Surf	17.50	13.375	0.6946					
Туре	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	1060	0	736	2.38	50%	464	12	Class C + 0.50 BWOB Accelerator + 2.00 BWOB Sodium Metasilicate
Tail	1313	1060	132	1.32	50%	200	14.8	Class C

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (cuft/ft)			
Int_1	12.25	9.625	0.3132	12.615	0.3627			
Tymo	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend &
Туре	CITIC BUIL	Cilit Top	Cubic reet	rieiu	EXCESS	Jacks	weight	Additives
Lead	1313	0	476	1.98	30%	539	12.5	Class C/Poz 35/65 + 3.00 BWOW Salt + 6.00
Leau	2413	1312.5	345	1.90	30%	339	12.3	BWOB Bentonite
Tail	3003	2413	185	1.32	30%	200	14.8	Class C + 0.15 BWOB Retarder

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (cuft/ft)			
Int_2	8.75	7.00	0.1503	8.835	0.1585			
Туре	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend &
Туре	Cint Buil	Cint rop	Cubic reet	Heid	LXCESS	Sacks	Weight	Additives
	3003	0	476		30%			Class C + 50% Poz + 2.75 lb/sk LCM + 0.10
Lead	10628	3003	1146	3.01	30%	701	11	BWOB Sodium Metasilicate + 0.25 BWOB Retarder + 10.0 BWOB Bentonite
Tail	11528	10628	135	1.26	30%	140	14.2	Class H + 50% Poz + 0.15 BWOB Sodium Metasilicate + 0.15 BWOB Retarder + 0.30 BWOB Dispersant + 0.40 BWOB Fluid Loss + 2.0 BWOB Bentonite

Section	Hole Size	Casing OD	Cap _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (cuft/ft)			
Prod	6.125	4.50	0.0942	6.184	0.0981			
Туре	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
	11528	10628	88		20%			Class H + 50% Poz +
Tail	18049	11528	614	1.25	20%	674	14.2	O.15 BWOB Sodium Metasilicate + 0.15 BWOB Retarder + 0.30 BWOB Retarder + 0.40 BWOB Retarder + 0.40 BWOB Bentonite

6) Drilling Fluids Program:

An electronic mud monitoring system satisfying the requirements of Onshore Order 1 will be used. All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Section	Hole Size	TMD	Mud Wt.	Vis	PV	YP	Fluid Loss	Type
Surf	17-1/2"	1,313	8.5 to 8.9	32 to 36	1 - 6	1 - 6	NC	Fresh Wtr
Int_1	12-1/4"	3,003	9.8 to 10.0	28 to 30	1 - 3	1 - 3	NC	Brine
Int_2	8-3/4"	11,528	8.9 to 9.4	28 to 36	1 - 3	1 - 3	NC	Cut Brine
Prod	6-1/8"	18,049	11.5 to 12.5	50 to 55	20-22	8 - 10	8 - 10	OBM

Mud checks will be performed every 24 hours.

The following mud system monitoring equipment will be in place during drilling:

- Visual pit markers
- Pit volume totalizer (PVT)
- Stroke counter
- Gas detection
- Mud-gas separator (gas buster)
- Flow sensor

A closed-loop system will be in place during all phases of drilling. Cuttings disposal will be at an off-site disposal facility.

7) Formation Evaluation Program:

No core or drill stem test is planned.

A 2-person mud-logging program will be used from Int_1 9-5/8" casing point to TD.

No electronic logs are planned.

8) Abnormal Conditions:

No abnormal pressure or temperature is expected.

Maximum expected bottom hole pressure is 7476 psi at 11059.5' TVD. Expected bottom hole temperature is <200°F.

In accordance with Onshore Order 6, WPX Energy Permian, LLC does not anticipate that there will be enough H2S to meet the BLM's minimum requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. However, since WPX Energy Permian, LLC has an H2S safety package on all wells, an "H2S Drilling Operations Plan" is attached.

Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

All personnel will be familiar with all aspects of safe operation of equipment being used.

9) Other Information

The anticipated spud date is upon approval. Expected duration is 30 days to drill the well.

Well Name: STEEL GUITAR 35-26 FED COM



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

Drilling Plan Data Report

03/10/2022

APD ID: 10400063075

Submission Date: 10/08/2020

Highlighted data reflects the most recent changes

Operator Name: WPX ENERGY PERMIAN LLC

Well Number: 451H

Show Final Text

Well Type: OTHER

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
899782	QUATERNARY	2971	0	0	ALLUVIUM, OTHER : Quaternary	USEABLE WATER	N
899783	BELL CANYON	4	2967	2975	SANDSTONE, SHALE	NATURAL GAS, OIL	N
899784	CHERRY CANYON	-1036	4007	4049	SANDSTONE, SHALE	NATURAL GAS, OIL	N
899785	BRUSHY CANYON	-2125	5096	5174	SANDSTONE, SHALE	NATURAL GAS, OIL	N
899787	BONE SPRING 1ST	-4656	7627	7788	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
899788	BONE SPRING 2ND	-5279	8250	8432	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
899789	BONE SPRING 3RD	-6556	9527	9729	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
899790	WOLFCAMP	-6894	9865	10070	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

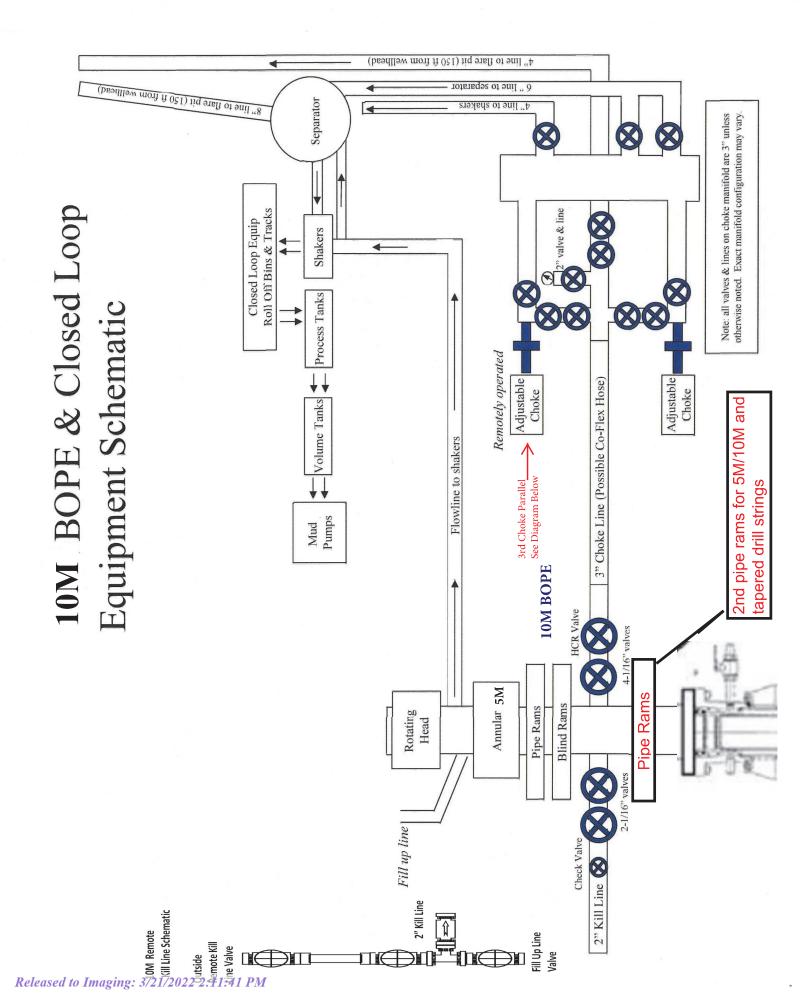
Pressure Rating (PSI): 10M Rating Depth: 10271

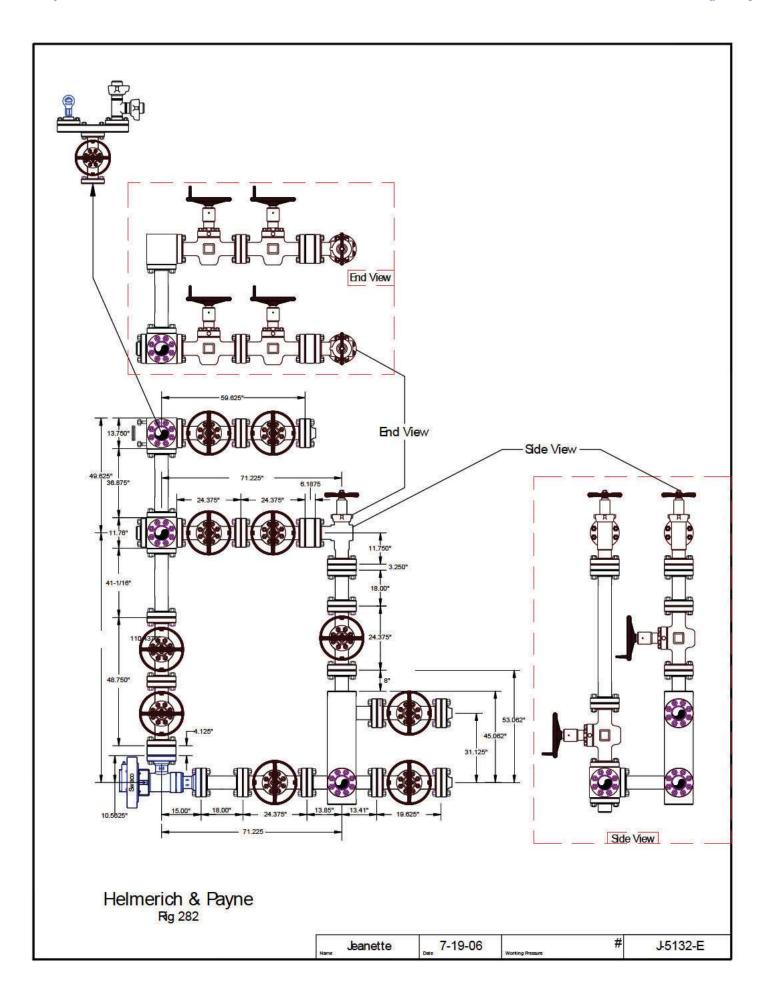
Equipment: 10M - BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below intermediate casing, a BOP/BOPE system with the above minimum rating will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested. 5M - BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below surface casing, a BOP/BOPE system with the above minimum rating will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart. Devon requests a variance to run a 5M annular on a 1 OM BOP system. See separately attached variance request and support documents in AFMSS.

Testing Procedure: 10M - 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 pressured sobjectively as \$15602 must be tested to 100% of rated working pressure. 5M - A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing





Planning Report - Geographic

Database: EDM r5000.16_Prod US
Company: WPX Energy Permian, LLC

Project: Eddy NM
Site: Steel Guitar East

Well: STEEL GUITAR 35-26 FED COM 451H

Wellbore: Wellbore #1

Design: Permit Plan 1 (330'FWL) WC B300

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well STEEL GUITAR 35-26 FED COM 451H

GL:2887.50+28ft @ 2915.50ft (Pat 803) GL:2887.50+28ft @ 2915.50ft (Pat 803)

Grid

Minimum Curvature

Project Eddy NM

Map System:US State Plane 1983Geo Datum:North American Datum 1983

Map Zone: North American Datum 198
New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Steel Guitar East

370,722.80 usft Site Position: Northing: Latitude: 32.0186393 -103.9571762 657,918.50 usft From: Мар Easting: Longitude: **Position Uncertainty:** 0.00 ft 13-3/16 " 0.20 Slot Radius: **Grid Convergence:**

Well STEEL GUITAR 35-26 FED COM 451H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 370,729.56 usft
 Latitude:
 32.0186584

 +E/-W
 0.00 ft
 Easting:
 657,858.90 usft
 Longitude:
 -103.9573684

Position Uncertainty0.50 ftWellhead Elevation:Ground Level:2,887.50 ft

Wellbore Wellbore #1 Declination Dip Angle Field Strength Magnetics **Model Name** Sample Date (°) (°) (nT) IGRF200510 12/31/2009 7.91 59.98 48,629.17490042

Permit Plan 1 (330'FWL) WC B300 Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 194.13

Plan Survey Tool Program Date 1/13/2022

Depth From Depth To

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

1 0.00 18,048.72 Permit Plan 1 (330'FWL) WC B3 2_MWD

A001Mb/ISC4: BGGM declinat

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	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,749.88	11.00	284.85	1,746.51	13.49	-50.85	2.00	2.00	0.00	284.85	
9,066.22	11.00	284.85	8,928.49	371.25	-1,399.95	0.00	0.00	0.00	0.00	
9,616.11	0.00	0.00	9,475.00	384.74	-1,450.80	2.00	-2.00	0.00	180.00	
10,627.65	0.00	0.00	10,486.54	384.74	-1,450.80	0.00	0.00	0.00	0.00	
11,527.65	90.00	181.92	11,059.50	-187.90	-1,469.97	10.00	10.00	0.00	181.92	
18,049.18	90.00	181.92	11,059.50	-6,705.78	-1,688.15	0.00	0.00	0.00	0.00	

Planning Report - Geographic

Database: EDM r5000.16_Prod US
Company: WPX Energy Permian, LLC

Project: Eddy NM
Site: Steel Guitar East

Well: STEEL GUITAR 35-26 FED COM 451H

Wellbore: Wellbore #1

Design: Permit Plan 1 (330'FWL) WC B300

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well STEEL GUITAR 35-26 FED COM 451H

GL:2887.50+28ft @ 2915.50ft (Pat 803) GL:2887.50+28ft @ 2915.50ft (Pat 803)

Grid

ned 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	370,729.56	657,858.90	32.0186584	-103.9573
100.00	0.00	0.00	100.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
200.00	0.00	0.00	200.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
300.00	0.00	0.00	300.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
400.00	0.00	0.00	400.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
500.00	0.00	0.00	500.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
600.00	0.00	0.00	600.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
700.00	0.00	0.00	700.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
800.00	0.00	0.00	800.00	0.00	0.00	370,729.56	657,858.90	32.0186584	- 103.9573
900.00	0.00	0.00	900.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
1,000.00	0.00	0.00	1,000.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
1,100.00	0.00	0.00	1,100.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
1,200.00	0.00	0.00	1,200.00	0.00	0.00	370,729.56	657,858.90	32.0186584	-103.9573
Start Nuc	dge @1200.00)'Md							
1,259.50	1.19	284.85	1,259.50	0.16	-0.60	370,729.72	657,858.31	32.0186589	-103.9573
Castile (1	Гор of Salt) (Е	st.)							
1,300.00	2.00	284.85	1,299.98	0.45	-1.69	370,730.01	657,857.22	32.0186597	-103.9573
1,400.00	4.00	284.85	1,399.84	1.79	-6.75	370,731.35	657,852.16	32.0186634	-103.9573
1,500.00	6.00	284.85	1,499.45	4.02	-15.17	370,733.59	657,843.74	32.0186696	-103.9574
1,600.00	8.00	284.85	1,598.70	7.15	-26.95	370,736.71	657,831.96	32.0186783	-103.9574
1,700.00	10.00	284.85	1,697.47	11.16	-42.07	370,740.72	657,816.84	32.0186895	-103.957
1,749.88	11.00	284.85	1,746.51	13.49	-50.85	370,743.05	657,808.05	32.0186960	-103.9575
_	749.88'MD								
1,800.00	11.00	284.85	1,795.71	15.94	-60.10	370,745.50	657,798.81	32.0187028	-103.957
1,900.00	11.00	284.85	1,893.87	20.83	-78.53	370,750.39	657,780.37	32.0187164	-103.9576
2,000.00	11.00	284.85	1,992.04	25.72	-96.97	370,755.28	657,761.93	32.0187300	-103.9576
2,100.00	11.00	284.85	2,090.20	30.61	-115.41	370,760.17	657,743.49	32.0187437	-103.9577
2,200.00	11.00	284.85	2,188.36	35.50	-133.85	370,765.06	657,725.05	32.0187573	-103.9577
2,300.00	11.00	284.85	2,286.53	40.39	-152.29	370,769.95	657,706.61	32.0187709	-103.9578
2,400.00	11.00	284.85	2,384.69	45.28	-170.73	370,774.84	657,688.17	32.0187845	-103.9579
2,500.00	11.00	284.85	2,482.85	50.17	-189.17	370,779.73	657,669.73	32.0187981	-103.9579
2,600.00	11.00	284.85	2,581.02	55.06	-207.61	370,784.62	657,651.29	32.0188118	-103.9580
2,700.00	11.00	284.85	2,679.18	59.95	-226.05	370,789.51	657,632.85	32.0188254	-103.9580
2,800.00	11.00	284.85	2,777.34	64.84	-244.49	370,794.40	657,614.42	32.0188390	-103.958
2,900.00 3,000.00	11.00	284.85	2,875.51	69.73	-262.93 -281.37	370,799.29	657,595.98	32.0188526	-103.9582 -103.9582
3,000.00	11.00	284.85	2,973.67	74.62 74.76	-201.37 -281.90	370,804.18 370,804.32	657,577.54 657,577.01	32.0188662 32.0188666	-103.9582
	11.00 yon (Base of	284.85	2,976.50	74.76	-201.90	370,004.32	057,577.01	32.0100000	-103.936
3,100.00	yon (base or 11.00	284.85	3,071.83	79.51	-299.81	370,809.07	657,559.10	32.0188798	-103.9583
3,200.00	11.00	284.85	3,170.00	84.40	-318.25	370,813.96	657,540.66	32.0188935	-103.9583
3,300.00	11.00	284.85	3,268.16	89.29	-336.69	370,818.85	657,522.22	32.0189071	-103.9584
3,400.00	11.00	284.85	3,366.33	94.18	-355.13	370,823.74	657,503.78	32.0189207	-103.958
3,500.00	11.00	284.85	3,464.49	99.07	-373.57	370,828.63	657,485.34	32.0189343	-103.9585
3,600.00	11.00	284.85	3,562.65	103.96	-392.01	370,833.52	657,466.90	32.0189479	-103.9586
3,700.00	11.00	284.85	3,660.82	108.85	-410.45	370,838.41	657,448.46	32.0189616	-103.9586
3,800.00	11.00	284.85	3,758.98	113.74	-428.88	370,843.30	657,430.02	32.0189752	-103.9587
3,900.00	11.00	284.85	3,857.14	118.63	-447.32	370,848.19	657,411.58	32.0189888	-103.9588
4,000.00	11.00	284.85	3,955.31	123.51	-465.76	370,853.08	657,393.14	32.0190024	-103.9588
4,076.60	11.00	284.85	4,030.50	127.26	-479.89	370,856.82	657,379.02	32.0190128	-103.9589
Cherry C									
4,100.00	11.00	284.85	4,053.47	128.40	-484.20	370,857.97	657,374.70	32.0190160	-103.9589
4,200.00	11.00	284.85	4,151.63	133.29	-502.64	370,862.86	657,356.26	32.0190296	-103.9589
4,300.00	11.00	284.85	4,249.80	138.18	-521.08	370,867.75	657,337.82	32.0190433	-103.9590
4,400.00	11.00	284.85	4,347.96	143.07	-539.52	370,872.64	657,319.38	32.0190569	-103.9591

Planning Report - Geographic

Database: EDM r5000.16_Prod US
Company: WPX Energy Permian, LLC

Project: Eddy NM
Site: Steel Guitar East

Well: STEEL GUITAR 35-26 FED COM 451H

Wellbore: Wellbore #1

Design: Permit Plan 1 (330'FWL) WC B300

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well STEEL GUITAR 35-26 FED COM 451H GL:2887.50+28ft @ 2915.50ft (Pat 803)

GL:2887.50+28ft @ 2915.50ft (Pat 803)
GL:2887.50+28ft @ 2915.50ft (Pat 803)

Grid

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,500.00	11.00	284.85	4,446.12	147.96	-557.96	370,877.53	657,300.94	32.0190705	-103.959
4,600.00	11.00	284.85	4,544.29	152.85	-576.40	370,882.42	657,282.51	32.0190841	-103.959
4,700.00	11.00	284.85	4,642.45	157.74	-594.84	370,887.31	657,264.07	32.0190977	-103.959
4,800.00	11.00	284.85	4,740.61	162.63	-613.28	370,892.20	657,245.63	32.0191113	-103.959
4,900.00	11.00	284.85	4,838.78	167.52	-631.72	370,897.09	657,227.19	32.0191250	-103.959
5,000.00	11.00	284.85	4,936.94	172.41	-650.16	370,901.98	657,208.75	32.0191386	-103.959
5,100.00	11.00	284.85	5,035.11	177.30	-668.60	370,906.87	657,190.31	32.0191522	-103.959
5,156.43	11.00	284.85	5,090.50	180.06	-679.00	370,909.63	657,179.90	32.0191599	-103.959
Brushy C		004.05	5 400 07	400.40	007.04	070 044 70	057 474 07	00 0404050	400.056
5,200.00	11.00	284.85	5,133.27	182.19	-687.04	370,911.76	657,171.87	32.0191658	-103.959
5,300.00	11.00	284.85	5,231.43	187.08	-705.48	370,916.65	657,153.43	32.0191794	-103.959
5,400.00	11.00	284.85	5,329.60	191.97	-723.92 -740.00	370,921.54	657,134.99	32.0191931	-103.959
5,500.00	11.00	284.85	5,427.76	196.86	-742.36	370,926.43	657,116.55	32.0192067	-103.959 -103.959
5,600.00	11.00	284.85	5,525.92	201.75	-760.80	370,931.32	657,098.11 657,079.67	32.0192203	-103.959
5,700.00 5,800.00	11.00 11.00	284.85 284.85	5,624.09 5,722.25	206.64 211.53	-779.23 -797.67	370,936.21 370,941.10	657,061.23	32.0192339 32.0192475	-103.959
5,800.00	11.00	284.85	5,722.25 5,820.41	211.53	-797.67 -816.11	370,941.10 370,945.99	657,042.79	32.0192475	-103.958 -103.959
6,000.00	11.00	284.85	5,918.58	210.42	-834.55	370,950.88	657,024.35	32.01927148	-103.938
6,100.00	11.00	284.85	6,016.74	226.20	-852.99	370,955.77	657,005.91	32.0192884	-103.960
6,200.00	11.00	284.85	6,114.90	231.09	-871.43	370,960.66	656,987.47	32.0193020	-103.960
6,300.00	11.00	284.85	6,213.07	235.98	-889.87	370,965.55	656,969.03	32.0193156	-103.960
6.400.00	11.00	284.85	6,311.23	240.87	-908.31	370.970.44	656,950.60	32.0193292	-103.960
6,500.00	11.00	284.85	6,409.39	245.76	-926.75	370.975.33	656,932.16	32.0193428	-103.960
6,600.00	11.00	284.85	6,507.56	250.65	-945.19	370,980.22	656,913.72	32.0193565	-103.960
6,700.00	11.00	284.85	6,605.72	255.54	-963.63	370,985.11	656,895.28	32.0193701	-103.960
6,800.00	11.00	284.85	6,703.88	260.43	-982.07	370,990.00	656,876.84	32.0193837	-103.960
6,834.24	11.00	284.85	6,737.50	262.11	-988.38	370,991.67	656,870.52	32.0193884	-103.960
1st Bone	Spring Lime								
6,900.00	11.00	284.85	6,802.05	265.32	-1,000.51	370,994.89	656,858.40	32.0193973	-103.960
6,923.89	11.00	284.85	6,825.50	266.49	-1,004.91	370,996.05	656,853.99	32.0194006	-103.960
Avalon U 7,000.00	• •	284.85	6,900.21	270.21	-1,018.95	370,999.78	656,839.96	32.0194109	102.00
7,000.00	11.00 11.00	284.85	6,998.38	275.10	-1,016.95 -1,037.39	371,004.67	656,821.52	32.0194109	-103.960 -103.960
7,100.00	11.00	284.85	7,096.54	279.99	-1,057.39 -1,055.83	371,004.67	656,803.08	32.0194382	-103.960
7,200.00	11.00	284.85	7,090.34	284.88	-1,033.03 -1,074.27	371,014.45	656,784.64	32.0194518	-103.960
7,400.00	11.00	284.85	7,292.87	289.77	-1,092.71	371,019.34	656,766.20	32.0194654	-103.960
7,402.68	11.00	284.85	7,295.50	289.90	-1,093.20	371,019.47	656,765.71	32.0194658	-103.960
Avalon L									
7,500.00	11.00	284.85	7,391.03	294.66	-1,111.15	371,024.23	656,747.76	32.0194790	-103.960
7,600.00	11.00	284.85	7,489.19	299.55	-1,129.59	371,029.12	656,729.32	32.0194926	-103.961
7,700.00	11.00	284.85	7,587.36	304.44	-1,148.02	371,034.01	656,710.88	32.0195062	-103.961
7,785.72	11.00	284.85	7,671.50	308.63	-1,163.83	371,038.20	656,695.08	32.0195179	-103.96
	Spring Sand	004.05	7.005.50	202.22	4 400 40	074 000 00	050 000 44	20.0105100	100.00
7,800.00 7,900.00	11.00	284.85	7,685.52	309.33	-1,166.46 1.184.00	371,038.90	656,692.44	32.0195199	-103.96
8,000.00	11.00	284.85	7,783.68 7,881.85	314.22	-1,184.90 1 202 34	371,043.79	656,674.00	32.0195335	-103.96
8,000.00	11.00 11.00	284.85 284.85	7,881.85 7,923.50	319.11 321.19	-1,203.34 -1,211.17	371,048.68 371,050.75	656,655.56 656,647.74	32.0195471 32.0195529	-103.961 -103.961
	Spring Lime		7,020.00	521.15	1,441111	37 1,000.70	000,047.74	02.0100020	100.30
8,100.00	11.00	284.85	7,980.01	324.00	-1,221.78	371,053.56	656,637.12	32.0195607	- 103.96
8,200.00	11.00	284.85	8,078.17	328.89	-1,240.22	371,058.45	656,618.69	32.0195743	-103.96
8,300.00	11.00	284.85	8,176.34	333.78	-1,258.66	371,063.34	656,600.25	32.0195879	-103.961
8,400.00	11.00	284.85	8,274.50	338.67	-1,277.10	371,068.23	656,581.81	32.0196016	-103.961
8,417.32	11.00	284.85	8,291.50	339.52	-1,280.29	371,069.08	656,578.61	32.0196039	-103.961
2nd Dans	Spring Sand	1							

Planning Report - Geographic

Database: EDM r5000.16_Prod US
Company: WPX Energy Permian, LLC

Project: Eddy NM Site: Steel Guitar East

Well: STEEL GUITAR 35-26 FED COM 451H

Wellbore: Wellbore #1

Design: Permit Plan 1 (330'FWL) WC B300

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well STEEL GUITAR 35-26 FED COM 451H GL:2887.50+28ft @ 2915.50ft (Pat 803) GL:2887.50+28ft @ 2915.50ft (Pat 803)

Grid

Planned Sur	vev								
. James Car	,								
Measure Depth (ft)	d Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,500.	00 11.00	284.85	8,372.66	343.56	-1,295.54	371,073.12	656,563.37	32.0196152	-103.9615447
8,600	00 11.00	284.85	8,470.83	348.45	-1,313.98	371,078.01	656,544.93	32.0196288	-103.9616041
8,700.	00 11.00	284.85	8,568.99	353.34	-1,332.42	371,082.90	656,526.49	32.0196424	-103.9616635
8,800.		284.85	8,667.15	358.23	-1,350.86	371,087.79	656,508.05	32.0196560	-103.9617230
8,890.	00 11.00	284.85	8,755.50	362.63	-1,367.45	371,092.20	656,491.45	32.0196683	-103.9617765
	one Spring Lime								
8,900		284.85	8,765.32	363.12	-1,369.30	371,092.68	656,489.61	32.0196696	-103.9617824
9,000 9,066		284.85 284.85	8,863.48 8,928.49	368.01 371.25	-1,387.74 -1,399.95	371,097.57 371,100.81	656,471.17 656,458.96	32.0196833 32.0196923	-103.9618419 -103.9618812
		204.00	0,920.49	3/ 1.23	-1,399.93	37 1,100.61	050,456.90	32.0190923	-103.9010012
9,100	@ 9066.22'MD 00 10.32	284.85	8,961.68	372.85	-1,405.99	371,102.41	656,452.92	32.0196967	-103.9619007
9,200		284.85	9,060.36	377.00	-1,421.64	371,106.57	656,437.26	32.0197083	-103.9619512
9,225		284.85	9,085.50	377.92	-1,425.09	371,107.48	656,433.82	32.0197108	-103.9619623
Harke	y Sandstone								
9,300	-	284.85	9,159.54	380.27	-1,433.96	371,109.83	656,424.94	32.0197174	-103.9619909
9,400	00 4.32	284.85	9,259.10	382.65	-1,442.93	371,112.21	656,415.98	32.0197240	-103.9620198
9,500	00 2.32	284.85	9,358.93	384.13	-1,448.53	371,113.70	656,410.38	32.0197281	-103.9620378
9,600.		284.85	9,458.90	384.72	-1,450.76	371,114.29	656,408.15	32.0197298	-103.9620450
9,616		0.00	9,475.00	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
	@ 9616.10'MD	0.00	0.554.50	20171	4 450 00	074 444 00	050 100 10	00.0407000	400 0000 450
9,695		0.00	9,554.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
	one Spring Sand		0.550.00	204.74	4 450 00	274 444 20	CEC 400 40	22.0407200	102.0020452
9,700 9,800		0.00 0.00	9,558.90 9,658.90	384.74 384.74	-1,450.80 -1,450.80	371,114.30	656,408.10 656,408.10	32.0197298 32.0197298	-103.9620452 -103.9620452
9,900		0.00	9,656.90	384.74	-1,450.80 -1,450.80	371,114.30 371,114.30	656,408.10	32.0197298	-103.9620452
10,000		0.00	9,858.90	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
10,041.		0.00	9,900.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
	tom WFMP Top F	Field - Wolfca							
10,068.		0.00	9,927.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
Wolfd	amp X Sand								
10,100	0.00	0.00	9,958.90	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
10,116.	61 0.00	0.00	9,975.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
Wolfd	amp Y Shale								
10,143	61 0.00	0.00	10,002.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
	amp Y Sand								
10,168.	61 0.00	0.00	10,027.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
	amp A 100								
10,200		0.00	10,058.90	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452 -103.9620452
10,300. 10,305.		0.00 0.00	10,158.90 10,164.50	384.74 384.74	-1,450.80 -1,450.80	371,114.30 371,114.30	656,408.10 656,408.10	32.0197298 32.0197298	-103.9620452
		0.00	10,104.50	304.74	-1,430.00	37 1,114.30	030,400.10	32.0197290	-103.9020432
10,377	amp A 110 0.00	0.00	10,236.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
	amp A 120	0.00	10,200.00	001.74	1,100.00	071,114.00	000,100.10	02.0101200	100.0020102
10,400.	•	0.00	10,258.90	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
10,427		0.00	10,286.50	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
	amp A 130								
10,500.	•	0.00	10,358.90	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
10,535	61 0.00	0.00	10,394.50	384.74	-1,450.80	371,114.30	656,408.10	32,0197298	-103.9620452
Wolfd	amp B 100								
10,600		0.00	10,458.90	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
10,627		0.00	10,486.54	384.74	-1,450.80	371,114.30	656,408.10	32.0197298	-103.9620452
KOP(@10627.65'MD								

Planning Report - Geographic

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Project: Eddy NM Site: Steel Guitar East

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Well STEEL GUITAR 35-26 FED COM 451H GL:2887.50+28ft @ 2915.50ft (Pat 803)

GL:2887.50+28ft @ 2915.50ft (Pat 803)

Grid

ign:			FVVL) VVC B30	-					
nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,647.61	2.00	181.92	10,506.50	384.39	-1,450.81	371,113.95	656,408.09	32.0197289	-103.9620452
Wolfcam			,		.,	,	,		
10,650.00	2.24	181.92	10,508.89	384.30	-1,450.82	371,113.86	656,408.09	32.0197286	-103.9620452
10,700.00	7.24	181.92	10,558.70	380.18	-1,450.96	371,109.74	656,407.95	32.0197173	-103.962045
10,729.13	10.15	181.92	10,587.50	375.78	-1,451.10	371,105.34	656,407.80	32.0197052	-103.962046
Wolfcam	p B 120								
10,750.00	12.24	181.92	10,607.97	371.73	-1,451.24	371,101.29	656,407.67	32.0196941	-103.962046
10,800.00	17.24	181.92	10,656.31	359.02	-1,451.66	371,088.58	656,407.24	32.0196591	-103.962048
10,850.00	22.24	181.92	10,703.36	342.15	-1,452.23	371,071.72	656,406.68	32.0196128	-103.962050
10,900.00 10,950.00	27.24 32.24	181.92 181.92	10,748.75	321.25 296.47	-1,452.93 -1,453.76	371,050.81 371,026.03	656,405.98 656,405.15	32.0195553 32.0194872	-103.962052 -103.962055
11,000.00	32.24 37.24	181.92	10,792.16 10,833.23	268.01	-1,453.76 -1,454.71	371,026.03	656,404.20	32.0194090	-103.962059
11,050.00	42.24	181.92	10,871.67	236.07	-1,455.78	370,965.64	656,403.13	32.0193212	-103.962062
11,091.70	46.41	181.92	10,901.50	206.96	-1,456.75	370.936.52	656,402.15	32.0192412	-103.962066
Wolfcam			,		1,100.10	5. 5,555.52	000,102110		
11,100.00	47.24	181.92	10,907.18	200.91	-1,456.96	370,930.48	656,401.95	32.0192246	-103.962067
11,150.00	52.24	181.92	10,939.48	162.79	-1,458.23	370,892.36	656,400.68	32.0191198	-103.962071
11,200.00	57.24	181.92	10,968.34	122.00	-1,459.60	370,851.57	656,399.31	32.0190077	-103.962076
11,250.00	62.24	181.92	10,993.53	78.86	-1,461.04	370,808.42	656,397.87	32.0188891	-103.962081
11,300.00	67.24	181.92	11,014.87	33.68	-1,462.55	370,763.24	656,396.35	32.0187649	-103.962087
11,350.00	72.24	181.92	11,032.18	-13.18	-1,464.12	370,716.38	656,394.78	32.0186361	-103.962092
11,387.73	76.01	181.92	11,042.50	-49.45	-1,465.34	370,680.12	656,393.57	32.0185364	-103.962096
Top Targ	et								
11,400.00	77.24	181.92	11,045.34	-61.38	-1,465.74	370,668.18	656,393.17	32.0185036	-103.962098
11,450.00	82.24	181.92	11,054.25	-110.54	-1,467.38	370,619.03	656,391.53	32.0183685	-103.962104
11,500.00	87.24	181.92	11,058.83	-160.28	-1,469.05	370,569.28	656,389.86	32.0182318	-103.962110
11,527.65	90.00	181.92	11,059.50	-187.90	-1,469.97	370,541.66	656,388.94	32.0181559	-103.962113
_	27.65'MD - Lai		11 050 50	260.24	1 472 20	270 460 25	GEG 20G E2	22.0470574	102.06212
11,600.00 11,700.00	90.00	181.92	11,059.50	-260.21 -360.16	-1,472.39 1,475.74	370,469.35 370,369.41	656,386.52 656,383.17	32.0179571 32.0176824	-103.962122 -103.962133
11,700.00	90.00 90.00	181.92 181.92	11,059.50 11,059.50	-360.10 -460.10	-1,475.74 -1,479.08	370,269.46	656,379.82	32.0174077	-103.962145
11,900.00	90.00	181.92	11,059.50	-560.05	-1,479.00	370,209.40	656,376.48	32.0171330	-103.962157
12,000.00	90.00	181.92	11,059.50	-659.99	-1,485.77	370,069.57	656,373.13	32.0168583	-103.962169
12,100.00	90.00	181.92	11,059.50	-759.93	-1,489.12	369,969.63	656,369.79	32.0165836	-103.96218
12,200.00	90.00	181.92	11,059.50	-859.88	-1,492.47	369,869.69	656,366.44	32.0163089	-103.962193
12,300.00	90.00	181.92	11,059.50	-959.82	-1,495.81	369,769.74	656,363.10	32.0160342	-103.962205
12,400.00	90.00	181.92	11,059.50	-1,059.77	-1,499.16	369,669.80	656,359.75	32.0157594	-103.962217
12,500.00	90.00	181.92	11,059.50	-1,159.71	-1,502.50	369,569.86	656,356.41	32.0154847	-103.962229
12,600.00	90.00	181.92	11,059.50	-1,259.65	-1,505.85	369,469.91	656,353.06	32.0152100	-103.96224
12,700.00	90.00	181.92	11,059.50	-1,359.60	-1,509.19	369,369.97	656,349.71	32.0149353	-103.962252
12,800.00	90.00	181.92	11,059.50	-1,459.54	-1,512.54	369,270.02	656,346.37	32.0146606	-103.962264
12,900.00	90.00	181.92	11,059.50	-1,559.49	-1,515.88	369,170.08	656,343.02	32.0143859	-103.962276
13,000.00	90.00	181.92	11,059.50	-1,659.43	-1,519.23	369,070.14	656,339.68	32.0141112	-103.962288
13,100.00	90.00	181.92	11,059.50	-1,759.37	-1,522.58	368,970.19	656,336.33	32.0138365	-103.962300
13,200.00	90.00	181.92	11,059.50	-1,859.32 1,050.36	-1,525.92 1,520.27	368,870.25 368,770.31	656,332.99	32.0135618	-103.962312
13,300.00 13,400.00	90.00 90.00	181.92 181.92	11,059.50 11,059.50	-1,959.26 -2,059.21	-1,529.27 -1,532.61	368,670.36	656,329.64 656,326.30	32.0132871 32.0130124	-103.962324 -103.962336
13,500.00	90.00	181.92	11,059.50	-2,059.21 -2,159.15	-1,535.96	368,570.42	656,322.95	32.0130124	-103.962336
13,600.00	90.00	181.92	11,059.50	-2,159.15	-1,539.30	368,470.47	656,319.61	32.0124629	-103.962340
13,700.00	90.00	181.92	11,059.50	-2,359.04	-1,542.65	368,370.53	656,316.26	32.0121882	-103.96237
13,800.00	90.00	181.92	11,059.50	-2,458.98	-1,545.99	368,270.59	656,312.91	32.0119135	-103.962383
13,900.00	90.00	181.92	11,059.50	-2,558.93	-1,549.34	368,170.64	656,309.57	32.0116388	-103.962395
14,000.00	90.00	181.92	11,059.50	-2,658.87	-1,552.68	368,070.70	656,306.22	32.0113641	-103.962407
14,100.00	90.00	181.92	11,059.50	-2,758.81	-1,556.03	367,970.75	656,302.88	32.0110894	-103.962419

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Grid

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,200.00	90.00	181.92	11,059.50	-2,858.76	-1,559.38	367,870.81	656,299.53	32.0108147	-103.9624
14,300.00	90.00	181.92	11,059.50	-2,958.70	-1,562.72	367,770.87	656,296.19	32.0105400	-103.962
14,400.00	90.00	181.92	11,059.50	-3,058.65	-1,566.07	367,670.92	656,292.84	32.0102653	-103.962
14,500.00	90.00	181.92	11,059.50	-3,158.59	-1,569.41	367,570.98	656,289.50	32.0099906	-103.962
14,600.00	90.00	181.92	11,059.50	-3,258.53	-1,572.76	367,471.04	656,286.15	32.0097159	-103.962
14,700.00	90.00	181.92	11,059.50	-3,358.48	-1,576.10	367,371.09	656,282.80	32.0094412	-103.962
14,800.00	90.00	181.92	11,059.50	-3,458.42	-1,579.45	367,271.15	656,279.46	32.0091664	-103.962
14,900.00	90.00	181.92	11,059.50	-3,558.37	-1,582.79	367,171.20	656,276.11	32.0088917	-103.962
15,000.00	90.00	181.92	11,059.50	- 3,658.31	-1,586.14	367,071.26	656,272.77	32.0086170	-103.962
15,100.00	90.00	181.92	11,059.50	-3,758.25	-1,589.49	366,971.32	656,269.42	32.0083423	-103.962
15,200.00	90.00	181.92	11,059.50	-3,858.20	-1,592.83	366,871.37	656,266.08	32.0080676	-103.962
15,300.00	90.00	181.92	11,059.50	-3,958.14	-1,596.18	366,771.43	656,262.73	32.0077929	-103.962
15,400.00	90.00	181.92	11,059.50	-4,058.09	-1,599.52	366,671.48	656,259.39	32.0075182	-103.962
15,500.00	90.00	181.92	11,059.50	-4,158.03	-1,602.87	366,571.54	656,256.04	32.0072435	-103.962
15,600.00	90.00	181.92	11,059.50	-4,257.97	-1,606.21	366,471.60	656,252.69	32.0069688	-103.962
15,700.00	90.00	181.92	11,059.50	-4,357.92	-1,609.56	366,371.65	656,249.35	32.0066941	-103.962
15,800.00	90.00	181.92	11,059.50	-4,457.86	-1,612.90	366,271,71	656,246.00	32.0064194	-103.962
15,900.00	90.00	181.92	11,059.50	-4,557.81	-1,616.25	366,171.77	656,242.66	32.0061447	-103.962
16,000.00	90.00	181.92	11,059.50	-4,657.75	-1,619.60	366,071.82	656,239.31	32.0058699	-103.962
16,100.00	90.00	181.92	11,059.50	-4,757.70	-1,622.94	365,971.88	656,235.97	32.0055952	-103.962
16,200.00	90.00	181.92	11,059.50	-4,857.64	-1,626.29	365,871.93	656,232.62	32.0053205	-103.962
16,300.00	90.00	181.92	11,059.50	-4,957.58	-1,629.63	365,771.99	656,229.28	32.0050458	-103.962
16,400.00	90.00	181.92	11,059.50	-5,057.53	-1,632.98	365,672.05	656,225.93	32.0047711	-103.962
16,500.00	90.00	181.92	11,059.50	-5,157.47	-1,636.32	365,572.10	656,222.58	32.0044964	-103.962
16,600.00	90.00	181.92	11,059.50	-5,257.42	-1,639.67	365,472.16	656,219.24	32.0042217	-103.962
16,700.00	90.00	181.92	11,059.50	-5,357.36	-1,643.01	365,372.22	656,215.89	32.0039470	-103.962
16,800.00	90.00	181.92	11,059.50	-5,457.30	-1,646.36	365,272.27	656,212.55	32.0036723	-103.962
16,900.00	90.00	181.92	11,059.50	-5,557.25	-1,649.71	365,172.33	656,209.20	32.0033976	-103.962
17,000.00	90.00	181.92	11,059.50	-5,657.19	-1,653.05	365,072.38	656,205.86	32.0031229	-103.962
17,100.00	90.00	181.92	11,059.50	-5,757.14	-1,656.40	364,972.44	656,202.51	32.0028482	-103.962
17,200.00	90.00	181.92	11,059.50	-5,857.08	-1,659.74	364,872.50	656,199.17	32.0025734	-103.962
17,300.00	90.00	181.92	11,059.50	-5,957.02	-1,663.09	364,772.55	656,195.82	32.0022987	-103.962
17,400.00	90.00	181.92	11,059.50	-6,056.97	-1,666.43	364,672.61	656,192.48	32.0020240	-103.962
17,500.00	90.00	181.92	11,059.50	-6,156.91	-1,669.78	364,572.66	656,189.13	32.0017493	-103.962
17,600.00	90.00	181.92	11,059.50	-6,256.86	-1,673.12	364,472.72	656,185.78	32.0014746	-103.962
17,700.00	90.00	181.92	11,059.50	-6,356.80	-1,676.47	364,372.78	656,182.44	32.0011999	-103.962
17,800.00	90.00	181.92	11,059.50	-6,456.74	-1,679.82	364,272.83	656,179.09	32.0009252	-103.962
17,900.00	90.00	181.92	11,059.50	-6,556.69	-1,683.16	364,172.89	656,175.75	32.0006505	-103.962
18,000.00	90.00	181.92	11,059.50	-6,656.63	-1,686.51	364,072.95	656,172.40	32.0003758	-103.962
18,049.18	90.00	181.92	11,059.50	-6,705.78	-1,688.15	364,023.80	656,170.76	32.0002407	-103.962

Planning Report - Geographic

Database: EDM r5000.16_Prod US
Company: WPX Energy Permian, LLC

Project: Eddy NM
Site: Steel Guitar East

Well: STEEL GUITAR 35-26 FED COM 451H

Wellbore: Wellbore #1

Design: Permit Plan 1 (330'FWL) WC B300

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well STEEL GUITAR 35-26 FED COM 451H

GL:2887.50+28ft @ 2915.50ft (Pat 803) GL:2887.50+28ft @ 2915.50ft (Pat 803)

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 (451H) 100'FNL, 33 - plan misses target - Point		0.00 1.16ft at 0.0	0.00 Oft MD (0.00	334.74 TVD, 0.00 N,	-1,453.10 0.00 E)	371,064.30	656,405.80	32.0195924	-103.9620531
POP (451H) 50'FNL, 33 - plan misses target - Point		0.00 0.95ft at 0.0	0.00 Oft MD (0.00	384.74 TVD, 0.00 N,	-1,450.80 0.00 E)	371,114.30	656,408.10	32.0197298	-103.9620452
BHL (451H) 50'FSL, 330 - plan hits target ce - Point		0.01	11,059.50	-6,705.78	-1,688.15	364,023.80	656,170.76	32.0002407	-103.9628894
LTP (451H) 100'FSL, 33 - plan misses target - Point		0.01 55ft at 17999	11,091.00 9.21ft MD (11	-6,655.78 059.50 TVD,	-1,688.30 -6655.84 N, -1	364,073.80 686.48 E)	656,170.60	32.0003781	-103.9628893

Casing Points							
	Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter	
	(ft)	(ft)		Name	(")	(")	
	19,051.14		20" Casing		20	24	

Planning Report - Geographic

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Grid

ions						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,259,50	1,259.50	Castile (Top of Salt) (Est.)	5,	.,	
	3,002.88	2,976.50	Bell Canyon (Base of Salt)			
	4,076.60	4,030.50	Cherry Canyon			
	5,156.43	5,090.50	Brushy Canyon			
	6,834.24	6,737.50	1st Bone Spring Lime			
	6,923.89	6,825.50	Avalon Upper			
	7,402.68	7,295.50	Avalon Lower			
	7,785.72	7,671.50	1st Bone Spring Sand			
	8,042.43	7,923.50	2nd Bone Spring Lime			
	8,417.32	8,291.50	2nd Bone Spring Sand			
	8,890.00	8,755.50	3rd Bone Spring Lime			
	9,225.39	9,085.50	Harkey Sandstone			
	9,695.61	9,554.50	3rd Bone Spring Sand			
	10,041.61	9,900.50	Phantom WFMP Top Field			
	10,041.61	9,900.50	Wolfcamp Top			
	10,068.61	9,927.50	Wolfcamp X Sand			
	10,116.61	9,975.50	Wolfcamp Y Shale			
	10,143.61	10,002.50	Wolfcamp Y Sand			
	10,168.61	10,027.50	Wolfcamp A 100			
	10,305.61	10,164.50	Wolfcamp A 110			
	10,377.61	10,236.50	Wolfcamp A 120			
	10,427.61	10,286.50	Wolfcamp A 130			
	10,535.61	10,394.50	Wolfcamp B 100			
	10,647.61	10,506.50	Wolfcamp B 110			
	10,729.13	10,587.50	Wolfcamp B 120			
	11,091.70	10,901.50	Wolfcamp B 300			
	11,387.73	11,042.50	Top Target			
	11,527.65	11,059.50	Landing Point			

Plan Annotation	ıs				
	Measured Vertical		Local Coor	dinates	
	Depth	Depth	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	(ft)	Comment
	1,200.00	1,200.00	0.00	0.00	Start Nudge @1200.00'Md
	1,749.88	1,746.51	13.49	-50.85	Hold @ 1749.88'MD
	9,066.22	8,928.49	371.25	-1,399.95	EOH @ 9066.22'MD
	9,616.11	9,475.00	384.74	-1,450.80	Hold @ 9616.10'MD
	10,627.65	10,486.54	384.74	-1,450.80	KOP@10627.65'MD
	11,527.65	11,059.50	-187.90	-1,469.97	LP@11527.65'MD
	18,049.18	11,059.50	-6,705.78	-1,688.15	TD at 18049.17

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | WPX Energy Permian LLC

LEASE NO.: | NMNM19609

WELL NAME & NO.: | Steel Guitar 35-26-29 Federal Com 421H

SURFACE HOLE FOOTAGE: | 439'/N & 1947'/W **BOTTOM HOLE FOOTAGE** | 50'/S & 330'/W

LOCATION: | Section 26, T.26 S., R.29 E., NMPM

COUNTY: Eddy County, New Mexico

COA

H2S	• Yes	O No	
Potash	None	© Secretary	○ R-111-P
Cave/Karst Potential	C Low	• Medium	○ High
Cave/Karst Potential	© Critical		
Variance	© None	Flex Hose	Other Other
Wellhead	© Conventional	• Multibowl	© Both
Other	4 String Area	Capitan Reef	■ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	Water Disposal	▼ COM	Unit

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 439 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate 1 casing and shall be set at approximately 3,225 feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 7 inch intermediate 2 casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- 4. The minimum required fill of cement behind the 4-1/2 inch production liner with a tie back into the previous casing at 9,900 feet is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

THE PRODUCTION LINER HAS AN EXCESS OF 20%. ADDITIONAL CEMENT MAY BE NEEDED.

C. PRESSURE CONTROL

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

- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface, intermediate 1 and intermediate 2 casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575)361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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A. CASING

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

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B. PRESSURE CONTROL

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

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

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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.

YJ (08-16-2021)



WPX Energy Permian, LLC

3500 One Williams Center Tulsa, Oklahoma 74172

Hydrogen Sulfide (H₂S) Contingency Plan

For

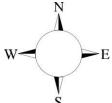
Steel Guitar 35-26 Fed Com 451H

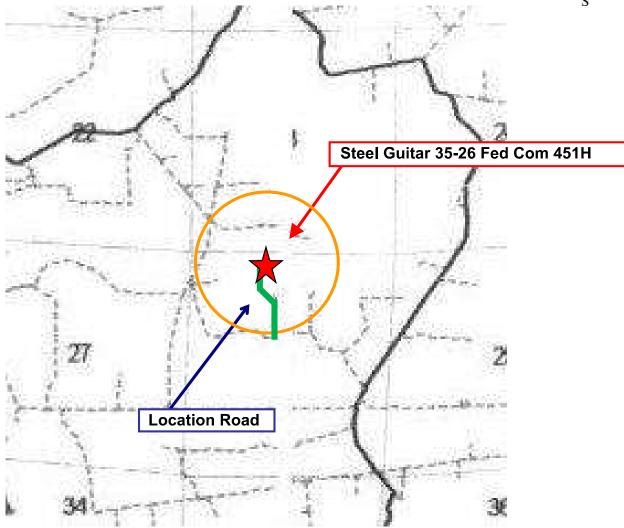
Sec-26 T-26S R-29E 423' FNL & 1797' FWL LAT. = 32.0186081' N (NAD83) LONG = 103.9568921' W

Eddy County NM

Steel Guitar 35-26 Fed Com 451H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.





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,
 - o 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	Lethal
Name	Formula	Gravity	Limit	Limit	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

WPX Energy Permian 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. WPX Energy Permian Company response must be in coordination with

the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

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

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

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

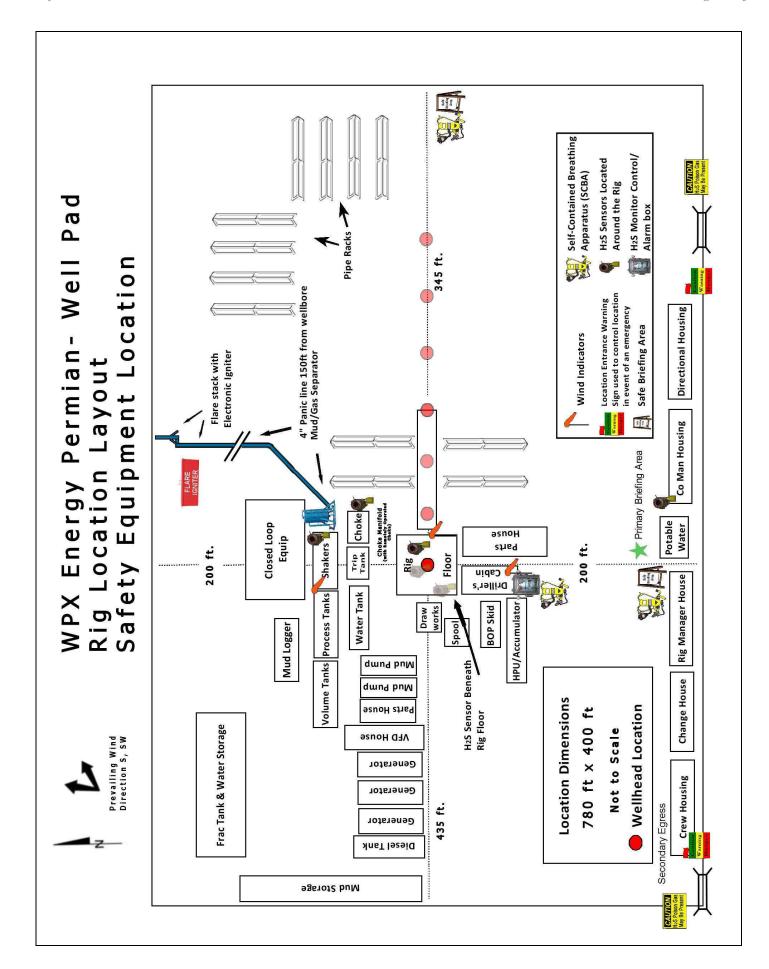
7. Well testing:

- 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.

WPX Ener	rgy Permian. Company Call List						
Drilling Su	pervisor – Keith Jordan	601-431-3739					
21111119 24	lan Ensell	719-761-2440					
EHS Profe	essional – Laura Wright	405-439-8129					
Agency	Call List						
<u>Lea</u>	Hobbs						
<u>County</u>	Lea County Communication Authority	393-3981					
<u>(575)</u>	State Police	392-5588					
	City Police	397-9265					
	Sheriff's Office	393-2515					
	Ambulance						
	Fire Department	397-9308					
	LEPC (Local Emergency Planning Committee)	393-2870					
	NMOCD	393-6161					
	US Bureau of Land Management	393-3612					
	<u> </u>						
<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	887-6544					
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600					
	24 HR	(505) 827-9126					
	National Emergency Response Center	(800) 424-8802					
,	National Pollution Control Center: Direct	(703) 872-6000					
	For Oil Spills	(800) 280-7118					
	Emergency Services						
	Wild Well Control	(281) 784-4700					
	Cudd Pressure Control (915) 699-0139	(915) 563-3356					
,	Halliburton	(575) 746-2757					
	B. J. Services	(575) 746-3569					
Give	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828					
GPS	Flight For Life - Lubbock, TX	(806) 743-9911					
position:	Aerocare - Lubbock, TX	(806) 747-8923					
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433					
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222					
	Poison Control (24/7)	(575) 272-3115					
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366					
	NOAA – Website - www.nhc.noaa.gov	,					

Prepared in conjunction with Dave Small





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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 89361

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	89361
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require administrative order for non-standard spacing unit	3/21/2022
kpickford	Notify OCD 24 hours prior to casing & cement	3/21/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/21/2022
kpickford	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	3/21/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/21/2022
kpickford	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	3/21/2022