

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-015-49849
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/30/2021

Additional Operator Remarks

Location of Well

0. SHL: NENW / 442 FNL / 1976 FWL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0185984 / LONG: -103.9567959 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 1 FNL / 820 FWL / TWSP: 26S / RANGE: 29E / SECTION: 35 / LAT: 32.005321 / LONG: -103.961068 (TVD: 10077 feet, MD: 15200 feet)
PPP: NWSW / 2582 FSL / 850 FWL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.01252 / LONG: -103.96067 (TVD: 10077 feet, MD: 12300 feet)
PPP: NWNW / 100 FNL / 850 FWL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0197115 / LONG: -103.9603785 (TVD: 9805 feet, MD: 9950 feet)
BHL: LOT 9 / 50 FSL / 820 FWL / TWSP: 26S / RANGE: 29E / SECTION: 35 / LAT: 32.0002394 / LONG: -103.961313 (TVD: 10077 feet, MD: 17049 feet)

BLM Point of Contact

Name: Candy Vigil
Title: LIE
Phone: (575) 234-5982
Email: cvigil@blm.gov

CONFIDENTIAL

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

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

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

API Number 30-015-49849	Pool Code 98220	Pool Name PURPLE SAGE WOLFCAMP GAS POOL
Property Code 333183	Property Name STEEL GUITAR 35-26-29 FED COM	Well Number 411H
OGRID No. 246289	Operator Name WPX ENERGY PERMIAN, LLC	Elevation 2890.3'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	26-S	29-E		442	NORTH	1976	WEST	EDDY

Bottom Hole Location If Different From Surface

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	820	WEST	EDDY
Dedicated Acres 862.40	Joint or Infill	Consolidated Code	Order No.						

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

SHL:
NMSP-E (NAD 83)
N.(Y): = 370709.1'
E.(X): = 658037.7'
LAT.: = 32.0185984° N
LON.: = 103.9567959° W

POP:
NMSP-E (NAD 83)
N.(Y): = 371110.2'
E.(X): = 656928.5'
LAT.: = 32.0197116° N
LON.: = 103.9603705° W

FTP:
NMSP-E (NAD 83)
N.(Y): = 371060.2'
E.(X): = 656926.2'
LAT.: = 32.0195742° N
LON.: = 103.9603785° W

LTP:
NMSP-E (NAD 83)
N.(Y): = 371002.8'
E.(X): = 615740.3'
LAT.: = 32.0194511° N
LON.: = 103.9598935° W

BHL:
NMSP-E (NAD 83)
N.(Y): = 364025.8'
E.(X): = 656660.7'
LAT.: = 32.0002394° N
LON.: = 103.9613130° W

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

3/18/21

Signature: Larry E. Rader Date: _____

Print Name: _____

E-mail Address: larry.rader@wpxenergy.com

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 18, 2020

Date of Survey: _____

Signature and Seal of Professional Surveyor: _____

Job No.: WTC54252 Draft: FH!

Certificate Number: _____

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 Energy Permian, LLC **OGRID:** 246289 **Date:** 06 / 10 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See attachment						

IV. Central Delivery Point Name: See attachment [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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See attachment						

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 during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

Well	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. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

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.

[illegible]

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 Date	Completion Commencement Date	Initial Flow back Date	First Production
STEEL GUJAR 35-26-29 FED COM 413H		12/1/2023	12/31/2023	4/29/2024	4/29/2024	4/29/2024
STEEL GUJAR 35-26-29 FED COM 412H		12/1/2023	12/31/2023	4/29/2024	4/29/2024	4/29/2024
STEEL GUJAR 35-26-29 FED COM 411H		12/1/2023	12/31/2023	4/29/2024	4/29/2024	4/29/2024
STEEL GUJAR 35-26-29 FED COM 423H		12/1/2023	12/31/2023	4/29/2024	4/29/2024	4/29/2024
STEEL GUJAR 35-26-29 FED COM 422H		12/1/2023	12/31/2023	4/29/2024	4/29/2024	4/29/2024

Dates above are subject to change

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;
- (f) 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: 
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:



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 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, 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.

Multi-Bowl Schematic

WPX Energy Permian, LLC



Drilling Plan

Well STEEL GUITAR 35-26-29 FED COM 411H
 Location **Surface:** 442 FNL 1976 FWL (S26) T26S R29E Sec 26
Bottom Hole: 50 FSL 820 FWL (S35) T26S R29E Sec 35
 County/State Eddy, NM

The elevation of the unprepared ground is 2,890 feet above sea level.

The geologic name of the surface formation is Quaternary

A rotary rig will be utilized to drill the well to 17049' 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 17,049 feet MD.

1) Estimated Tops:

Formation Name	MD	TVD	Bearing	BHP (psi)	MASP (psi)
Quaternary	0	0	Water		
Bell Canyon	2967	2967	Oil/Gas		
Cherry Canyon	4030	4007	Oil/Gas		
Brushy Canyon	5148	5096	Oil/Gas		
Bone Spring 1st	7745	7627	Oil/Gas		
Bone Spring 2nd	8379	8250	Oil/Gas		
Bone Spring 3rd	9656	9527	Oil/Gas		
KOP	9633	9504	Oil/Gas		
Wolfcamp	10023	9865	Oil/Gas		
Landing Point (Wolfcamp)	10533	10077	Oil/Gas		
TD	17049	10077	Oil/Gas	6812	4595

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 nipped 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.

Multi-Bowl Schematic

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	439	439	13-3/8"	54.5	J-55	BT&C
Int_1	12-1/4"	0	3225	3222	9-5/8"	40.0	J-55	BT&C
Int_2	8-3/4"	0	10533	10077	7"	29.0	VAXP P-110	BT&C
Liner	6-1/8"	9,633	17049	10077	4-1/2"	13.5	VA EP-P110	VARN

Safety Factors	
Collapse	1.125
Burst	1.000
Tension	1.600

Design Factors			
Section	Collapse	Burst	Tension
Surf	5.85	28.27	21.48
Int_1	1.81	5.57	4.03
Int_2	2.55	6.24	3.45
Liner	2.41	5.60	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					
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	186	0	129	2.38	50%	81	12	Class C + 0.50 BWOB Accelerator + 2.00 BWOB Sodium Metasilicate
Tail	439	186	132	1.32	50%	200	14.8	Class C

Multi-Bowl Schematic

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			
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	439	0	159	1.98	30%	556	12.5	Class C/Poz 35/65 + 3.00 BWOW Salt + 6.00 BWOB Bentonite
	2635	439	688		30%			
Tail	3225	2635	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			
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	3225	0	511	3.01	30%	637	11	Class C + 50% Poz + 2.75 lb/sk LCM + 0.10 BWOB Sodium Metasilicate + 0.25 BWOB Retarder + 10.0 BWOB Bentonite
	9633	3225	963		30%			
Tail	10533	9633	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)			
Liner	6.125	4.50	0.0942	6.184	0.0981			
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Tail	10533	9633	88	1.25	20%	674	14.2	Class H + 50% Poz + 0.15 BWOB Sodium Metasilicate + 0.15 BWOB Retarder + 0.30 BWOB Retarder + 0.40 BWOB Fluid Loss + 2.0 BWOB Bentonite
	17049	10533	614		20%			

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"	439	8.5 to 8.9	32 to 36	1 - 6	1 - 6	NC	Fresh Wtr
Int_1	12-1/4"	3225	9.8 to 10.0	28 to 30	1 - 3	1 - 3	NC	Brine



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

Drilling Plan Data Report

08/02/2021

APD ID: 10400062926

Submission Date: 10/08/2020

Highlighted data
reflects the most
recent changes

Operator Name: WPX ENERGY PERMIAN LLC

Well Name: STEEL GUITAR 35-26-29 FED COM

Well Number: 411H

[Show Final Text](#)

Well Type: OTHER

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
896776	QUATERNARY	2971	0	0	ALLUVIUM, OTHER : Quaternary	USEABLE WATER	N
896777	BELL CANYON	4	2967	2967	SANDSTONE, SHALE	NATURAL GAS, OIL	N
896778	CHERRY CANYON	-1036	4007	4030	SANDSTONE, SHALE	NATURAL GAS, OIL	N
896779	BRUSHY CANYON	-2125	5096	5148	SANDSTONE, SHALE	NATURAL GAS, OIL	N
896781	BONE SPRING 1ST	-4656	7627	7745	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
896782	BONE SPRING 2ND	-5279	8250	8379	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
896783	BONE SPRING 3RD	-6556	9527	9656	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
896784	WOLFCAMP	-6894	9865	10023	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 10077

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 10M 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 pressure is broken the system must be tested. 5M annular on 10M system will 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



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.



Closed Loop Schematic



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.



GL:2890+27ft @ 2917.00usft (H&P 600)
Ground Level 2890.00

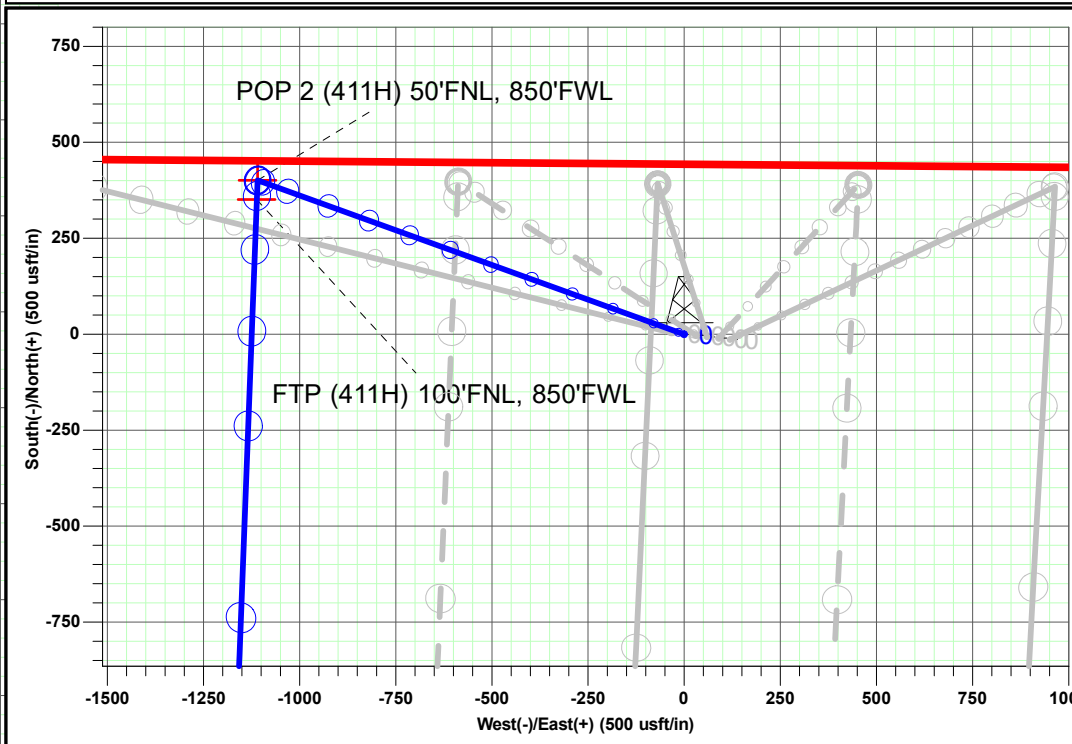
Steel Guitar 35-26-29 Fed Com 411H Permit
Eddy NM
Geopgro 7-28-2020
Northing: 370708.36
Easting: 658036.41
Lat: 32.0185984
Long: -103.9567959
Plan 1 (850'FWL) WC Uppr

SECTION DETAILS
Steel Guitar 35266-29 Fed Com 411H Permit

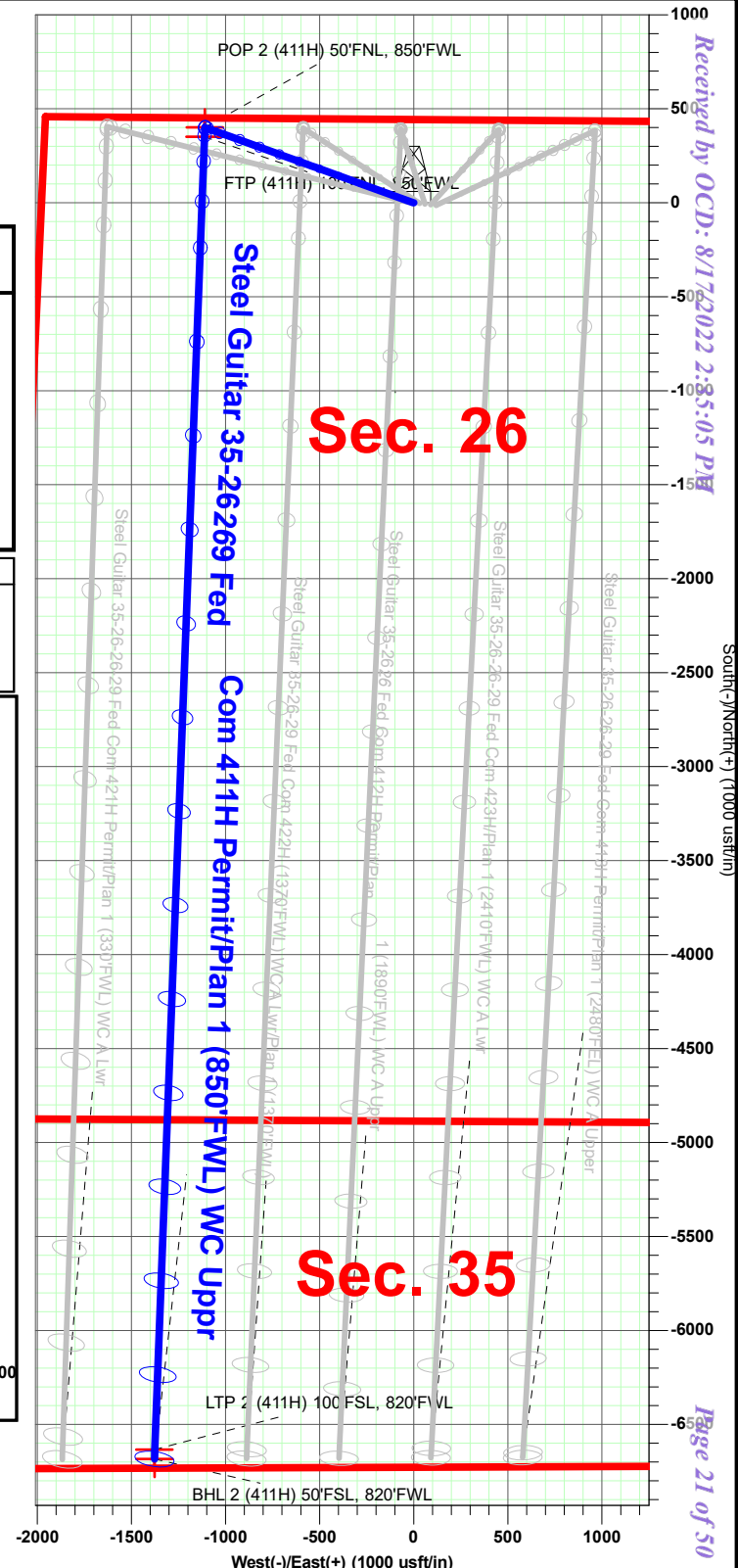
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2702.00	0.00	0.00	2702.00	0.00	0.00	0.00	0.00
3351.82	13.00	289.88	3346.27	24.96	-69.01	2.00	-22.34
7943.92	13.00	289.88	7820.73	376.14	-1040.19	0.00	-336.67
8593.75	0.00	0.00	8465.00	401.10	-1109.20	2.00	-359.01
9632.79	0.00	0.00	9504.04	401.10	-1109.20	0.00	-359.01
10532.79	90.00	182.16	10077.00	-171.45	-1130.84	10.00	213.95
17049.33	90.00	182.16	10077.00	-6683.34	-1376.99	0.00	6730.49

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
FTP (411H) 100'FNL, 850'FWL	0.00	351.12	-1111.57	32.0195742	-103.9603785
POP 2 (411H) 50'FNL, 850'FWL	0.00	401.11	-1109.27	32.0197116	-103.9603705
BHL 2 (411H) 50'FSL, 820'FWL	10077.00	-6683.34	-1376.99	32.0002394	-103.9613130
LTP 2 (411H) 100'FSL, 820'FWL	10077.00	-6633.32	-1377.13	32.0003769	-103.9613129



Steel Guitar 35-26-29 Fed Com 411H Permit/Plan 1 (850'FWL) WC Uppr
LTP 2 (411H) 100'FSL, 820'FWL BHL 2 (411H) 50'FSL, 820'FWL
Vertical Section at 182.16° (2000 usft/in)



Devon Energy

Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Project	Eddy NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Steel Guitar East				
Site Position:		Northing:	370,722.80 usft	Latitude:	32.0186393
From:	Map	Easting:	657,918.50 usft	Longitude:	-103.9571762
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.20

Well	Steel Guitar 35-26-29 Fed Com 411H Permit					
Well Position	+N/-S	0.00 usft	Northing:	370,708.35 usft	Latitude:	32.0185984
	+E/-W	0.00 usft	Easting:	658,036.42 usft	Longitude:	-103.9567959
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	2,890.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.91	59.98	48,629.19257367

Design	Plan 1 (850'FWL) WC Uppr			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	182.16

Plan Survey Tool Program	Date	4/27/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,049.33 Plan 1 (850'FWL) WC Uppr (Wel	MWD+HDGM OWSG MWD + HDGM		

Devon Energy
Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,702.00	0.00	0.00	2,702.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,351.82	13.00	289.88	3,346.27	24.96	-69.01	2.00	2.00	0.00	289.88	
7,943.92	13.00	289.88	7,820.73	376.14	-1,040.19	0.00	0.00	0.00	0.00	
8,593.75	0.00	0.00	8,465.00	401.10	-1,109.20	2.00	-2.00	0.00	180.00	
9,632.79	0.00	0.00	9,504.04	401.10	-1,109.20	0.00	0.00	0.00	0.00	
10,532.79	90.00	182.16	10,077.00	-171.45	-1,130.84	10.00	10.00	0.00	182.16	
17,049.33	90.00	182.16	10,077.00	-6,683.34	-1,376.99	0.00	0.00	0.00	0.00	

Devon Energy

Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
100.00	0.00	0.00	100.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
200.00	0.00	0.00	200.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
300.00	0.00	0.00	300.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
386.00	0.00	0.00	386.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
Rustler									
400.00	0.00	0.00	400.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
500.00	0.00	0.00	500.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
600.00	0.00	0.00	600.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
700.00	0.00	0.00	700.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
800.00	0.00	0.00	800.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
818.00	0.00	0.00	818.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
Salado									
900.00	0.00	0.00	900.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,000.00	0.00	0.00	1,000.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,100.00	0.00	0.00	1,100.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,200.00	0.00	0.00	1,200.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,261.00	0.00	0.00	1,261.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
Castile (Top of Salt) (Est.)									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,400.00	0.00	0.00	1,400.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,500.00	0.00	0.00	1,500.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,600.00	0.00	0.00	1,600.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,700.00	0.00	0.00	1,700.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,800.00	0.00	0.00	1,800.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
1,900.00	0.00	0.00	1,900.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,000.00	0.00	0.00	2,000.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,100.00	0.00	0.00	2,100.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,200.00	0.00	0.00	2,200.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,300.00	0.00	0.00	2,300.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,400.00	0.00	0.00	2,400.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,500.00	0.00	0.00	2,500.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,600.00	0.00	0.00	2,600.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
2,702.00	0.00	0.00	2,702.00	0.00	0.00	370,708.35	658,036.42	32.0185984	-103.9567959
Start Build 2.00									
2,800.00	1.96	289.88	2,799.98	0.57	-1.58	370,708.92	658,034.84	32.0186000	-103.9568010
2,900.00	3.96	289.88	2,899.84	2.33	-6.43	370,710.68	658,029.99	32.0186049	-103.9568166
2,967.38	5.31	289.88	2,967.00	4.18	-11.55	370,712.53	658,024.87	32.0186100	-103.9568331
Bell Canyon (Base of Salt)									
3,000.00	5.96	289.88	2,999.46	5.27	-14.56	370,713.62	658,021.86	32.0186130	-103.9568428
3,100.00	7.96	289.88	3,098.72	9.39	-25.96	370,717.74	658,010.46	32.0186245	-103.9568795
3,200.00	9.96	289.88	3,197.50	14.68	-40.60	370,723.04	657,995.82	32.0186392	-103.9569267
3,300.00	11.96	289.88	3,295.67	21.15	-58.48	370,729.50	657,977.94	32.0186571	-103.9569843
3,351.82	13.00	289.88	3,346.27	24.96	-69.01	370,733.31	657,967.41	32.0186677	-103.9570183
Hold									
3,400.00	13.00	289.88	3,393.21	28.64	-79.20	370,736.99	657,957.22	32.0186779	-103.9570511
3,500.00	13.00	289.88	3,490.65	36.29	-100.35	370,744.64	657,936.07	32.0186991	-103.9571193
3,600.00	13.00	289.88	3,588.08	43.94	-121.50	370,752.29	657,914.92	32.0187204	-103.9571874
3,700.00	13.00	289.88	3,685.52	51.58	-142.65	370,759.94	657,893.77	32.0187416	-103.9572556
3,800.00	13.00	289.88	3,782.96	59.23	-163.80	370,767.59	657,872.62	32.0187628	-103.9573237
3,900.00	13.00	289.88	3,880.40	66.88	-184.94	370,775.23	657,851.47	32.0187840	-103.9573919
4,000.00	13.00	289.88	3,977.84	74.53	-206.09	370,782.88	657,830.33	32.0188053	-103.9574600

Devon Energy

Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,029.93	13.00	289.88	4,007.00	76.81	-212.42	370,785.17	657,824.00	32.0188116	-103.9574804
Cherry Canyon									
4,100.00	13.00	289.88	4,075.28	82.17	-227.24	370,790.53	657,809.18	32.0188265	-103.9575282
4,200.00	13.00	289.88	4,172.71	89.82	-248.39	370,798.18	657,788.03	32.0188477	-103.9575963
4,300.00	13.00	289.88	4,270.15	97.47	-269.54	370,805.82	657,766.88	32.0188689	-103.9576645
4,400.00	13.00	289.88	4,367.59	105.12	-290.69	370,813.47	657,745.73	32.0188902	-103.9577326
4,500.00	13.00	289.88	4,465.03	112.76	-311.84	370,821.12	657,724.58	32.0189114	-103.9578008
4,600.00	13.00	289.88	4,562.47	120.41	-332.99	370,828.77	657,703.43	32.0189326	-103.9578689
4,700.00	13.00	289.88	4,659.91	128.06	-354.14	370,836.41	657,682.28	32.0189538	-103.9579371
4,800.00	13.00	289.88	4,757.35	135.71	-375.28	370,844.06	657,661.13	32.0189751	-103.9580052
4,900.00	13.00	289.88	4,854.78	143.35	-396.43	370,851.71	657,639.99	32.0189963	-103.9580734
5,000.00	13.00	289.88	4,952.22	151.00	-417.58	370,859.36	657,618.84	32.0190175	-103.9581415
5,100.00	13.00	289.88	5,049.66	158.65	-438.73	370,867.01	657,597.69	32.0190387	-103.9582097
5,147.56	13.00	289.88	5,096.00	162.29	-448.79	370,870.64	657,587.63	32.0190488	-103.9582421
Brushy Canyon									
5,200.00	13.00	289.88	5,147.10	166.30	-459.88	370,874.65	657,576.54	32.0190600	-103.9582778
5,300.00	13.00	289.88	5,244.54	173.95	-481.03	370,882.30	657,555.39	32.0190812	-103.9583460
5,400.00	13.00	289.88	5,341.98	181.59	-502.18	370,889.95	657,534.24	32.0191024	-103.9584141
5,500.00	13.00	289.88	5,439.41	189.24	-523.33	370,897.60	657,513.09	32.0191236	-103.9584823
5,600.00	13.00	289.88	5,536.85	196.89	-544.48	370,905.24	657,491.94	32.0191449	-103.9585504
5,700.00	13.00	289.88	5,634.29	204.54	-565.62	370,912.89	657,470.79	32.0191661	-103.9586186
5,800.00	13.00	289.88	5,731.73	212.18	-586.77	370,920.54	657,449.65	32.0191873	-103.9586867
5,900.00	13.00	289.88	5,829.17	219.83	-607.92	370,928.19	657,428.50	32.0192085	-103.9587549
6,000.00	13.00	289.88	5,926.61	227.48	-629.07	370,935.83	657,407.35	32.0192298	-103.9588230
6,100.00	13.00	289.88	6,024.04	235.13	-650.22	370,943.48	657,386.20	32.0192510	-103.9588912
6,200.00	13.00	289.88	6,121.48	242.77	-671.37	370,951.13	657,365.05	32.0192722	-103.9589593
6,300.00	13.00	289.88	6,218.92	250.42	-692.52	370,958.78	657,343.90	32.0192934	-103.9590275
6,400.00	13.00	289.88	6,316.36	258.07	-713.67	370,966.43	657,322.75	32.0193147	-103.9590957
6,500.00	13.00	289.88	6,413.80	265.72	-734.81	370,974.07	657,301.60	32.0193359	-103.9591638
6,600.00	13.00	289.88	6,511.24	273.37	-755.96	370,981.72	657,280.46	32.0193571	-103.9592320
6,700.00	13.00	289.88	6,608.67	281.01	-777.11	370,989.37	657,259.31	32.0193783	-103.9593001
6,794.75	13.00	289.88	6,701.00	288.26	-797.15	370,996.61	657,239.27	32.0193984	-103.9593647
Bone Spring									
6,800.00	13.00	289.88	6,706.11	288.66	-798.26	370,997.02	657,238.16	32.0193996	-103.9593683
6,893.28	13.00	289.88	6,797.00	295.79	-817.99	371,004.15	657,218.43	32.0194194	-103.9594318
Avalon Upper									
6,900.00	13.00	289.88	6,803.55	296.31	-819.41	371,004.66	657,217.01	32.0194208	-103.9594364
7,000.00	13.00	289.88	6,900.99	303.96	-840.56	371,012.31	657,195.86	32.0194420	-103.9595046
7,100.00	13.00	289.88	6,998.43	311.60	-861.71	371,019.96	657,174.71	32.0194632	-103.9595727
7,200.00	13.00	289.88	7,095.87	319.25	-882.86	371,027.61	657,153.56	32.0194845	-103.9596409
7,300.00	13.00	289.88	7,193.30	326.90	-904.01	371,035.25	657,132.41	32.0195057	-103.9597090
7,396.16	13.00	289.88	7,287.00	334.25	-924.34	371,042.61	657,112.08	32.0195261	-103.9597746
Avalon Lower									
7,400.00	13.00	289.88	7,290.74	334.55	-925.15	371,042.90	657,111.26	32.0195269	-103.9597772
7,500.00	13.00	289.88	7,388.18	342.19	-946.30	371,050.55	657,090.12	32.0195481	-103.9598453
7,600.00	13.00	289.88	7,485.62	349.84	-967.45	371,058.20	657,068.97	32.0195693	-103.9599135
7,700.00	13.00	289.88	7,583.06	357.49	-988.60	371,065.85	657,047.82	32.0195906	-103.9599816
7,745.10	13.00	289.88	7,627.00	360.94	-998.14	371,069.29	657,038.28	32.0196001	-103.9600124
1st Bone Spring Sand									
7,800.00	13.00	289.88	7,680.50	365.14	-1,009.75	371,073.49	657,026.67	32.0196118	-103.9600498
7,900.00	13.00	289.88	7,777.94	372.79	-1,030.90	371,081.14	657,005.52	32.0196330	-103.9601179

Devon Energy

Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
7,943.92	13.00	289.88	7,820.73	376.14	-1,040.19	371,084.50	656,996.23	32.0196423	-103.9601479	
EOH										
8,000.00	11.87	289.88	7,875.49	380.25	-1,051.54	371,088.61	656,984.87	32.0196537	-103.9601845	
8,058.64	10.70	289.88	7,933.00	384.15	-1,062.34	371,092.51	656,974.08	32.0196646	-103.9602193	
2nd Bone Spring Lime										
8,100.00	9.87	289.88	7,973.69	386.67	-1,069.29	371,095.02	656,967.13	32.0196715	-103.9602416	
8,200.00	7.87	289.88	8,072.49	391.91	-1,083.79	371,100.27	656,952.63	32.0196861	-103.9602884	
8,300.00	5.87	289.88	8,171.77	395.98	-1,095.05	371,104.34	656,941.37	32.0196974	-103.9603247	
8,378.55	4.30	289.88	8,250.00	398.35	-1,101.60	371,106.71	656,934.82	32.0197040	-103.9603458	
2nd Bone Spring Sand										
8,400.00	3.87	289.88	8,271.40	398.87	-1,103.04	371,107.23	656,933.38	32.0197054	-103.9603504	
8,500.00	1.87	289.88	8,371.27	400.58	-1,107.76	371,108.93	656,928.66	32.0197102	-103.9603656	
8,593.75	0.00	0.00	8,465.00	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
Vertical										
8,600.00	0.00	0.00	8,471.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
8,700.00	0.00	0.00	8,571.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
8,800.00	0.00	0.00	8,671.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
8,841.75	0.00	0.00	8,713.00	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
3rd Bone Spring Lime										
8,900.00	0.00	0.00	8,771.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,000.00	0.00	0.00	8,871.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,100.00	0.00	0.00	8,971.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,187.75	0.00	0.00	9,059.00	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
Harkey Sandstone										
9,200.00	0.00	0.00	9,071.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,300.00	0.00	0.00	9,171.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,400.00	0.00	0.00	9,271.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,500.00	0.00	0.00	9,371.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,600.00	0.00	0.00	9,471.25	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
9,632.79	0.00	0.00	9,504.04	401.10	-1,109.20	371,109.45	656,927.22	32.0197116	-103.9603703	
KOP @ 9632.79'MD										
9,650.00	1.72	182.16	9,521.25	400.84	-1,109.21	371,109.20	656,927.21	32.0197109	-103.9603703	
9,655.75	2.30	182.16	9,527.00	400.64	-1,109.22	371,109.00	656,927.20	32.0197103	-103.9603703	
3rd Bone Spring Sand										
9,700.00	6.72	182.16	9,571.10	397.17	-1,109.35	371,105.52	656,927.07	32.0197008	-103.9603708	
9,750.00	11.72	182.16	9,620.44	389.16	-1,109.65	371,097.52	656,926.77	32.0196788	-103.9603719	
9,800.00	16.72	182.16	9,668.89	376.89	-1,110.12	371,085.25	656,926.30	32.0196451	-103.9603735	
9,850.00	21.72	182.16	9,716.09	360.45	-1,110.74	371,068.80	656,925.68	32.0195999	-103.9603757	
9,900.00	26.72	182.16	9,761.67	339.96	-1,111.51	371,048.31	656,924.91	32.0195435	-103.9603784	
9,950.00	31.72	182.16	9,805.29	315.57	-1,112.43	371,023.93	656,923.99	32.0194765	-103.9603817	
10,000.00	36.72	182.16	9,846.62	287.48	-1,113.49	370,995.84	656,922.92	32.0193993	-103.9603854	
10,023.28	39.05	182.16	9,865.00	273.19	-1,114.03	370,981.55	656,922.38	32.0193600	-103.9603873	
Wolfcamp Top										
10,050.00	41.72	182.16	9,885.35	255.90	-1,114.69	370,964.25	656,921.73	32.0193125	-103.9603896	
10,057.62	42.48	182.16	9,891.00	250.80	-1,114.88	370,959.15	656,921.54	32.0192985	-103.9603903	
Wolfcamp X										
10,100.00	46.72	182.16	9,921.17	221.06	-1,116.01	370,929.42	656,920.41	32.0192168	-103.9603942	
10,150.00	51.72	182.16	9,953.82	183.24	-1,117.44	370,891.60	656,918.98	32.0191128	-103.9603993	
10,175.22	54.24	182.16	9,969.00	163.12	-1,118.20	370,871.47	656,918.22	32.0190575	-103.9604019	
Wolfcamp Y										
10,200.00	56.72	182.16	9,983.04	142.72	-1,118.97	370,851.07	656,917.45	32.0190014	-103.9604047	

Devon Energy

Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,226.38	59.36	182.16	9,997.00	120.36	-1,119.81	370,828.71	656,916.61	32.0189400	-103.9604076
Wolfcamp A									
10,250.00	61.72	182.16	10,008.62	99.81	-1,120.59	370,808.16	656,915.83	32.0188835	-103.9604104
10,300.00	66.72	182.16	10,030.36	54.83	-1,122.29	370,763.18	656,914.13	32.0187598	-103.9604164
10,350.00	71.72	182.16	10,048.09	8.13	-1,124.05	370,716.48	656,912.36	32.0186315	-103.9604226
10,400.00	76.72	182.16	10,061.68	-39.94	-1,125.87	370,668.42	656,910.55	32.0184994	-103.9604290
10,405.87	77.31	182.16	10,063.00	-45.65	-1,126.09	370,662.70	656,910.33	32.0184837	-103.9604297
Top Target									
10,450.00	81.72	182.16	10,071.03	-89.00	-1,127.73	370,619.35	656,908.69	32.0183645	-103.9604355
10,500.00	86.72	182.16	10,076.06	-138.70	-1,129.60	370,569.66	656,906.81	32.0182279	-103.9604421
10,532.79	90.00	182.16	10,077.00	-171.45	-1,130.84	370,536.91	656,905.58	32.0181379	-103.9604465
Landing Point @10532.79' MD - Landing Point									
10,600.00	90.00	182.16	10,077.00	-238.61	-1,133.38	370,469.75	656,903.04	32.0179533	-103.9604554
10,700.00	90.00	182.16	10,077.00	-338.54	-1,137.16	370,369.82	656,899.26	32.0176786	-103.9604687
10,800.00	90.00	182.16	10,077.00	-438.47	-1,140.94	370,269.89	656,895.48	32.0174040	-103.9604820
10,900.00	90.00	182.16	10,077.00	-538.40	-1,144.71	370,169.96	656,891.71	32.0171293	-103.9604953
11,000.00	90.00	182.16	10,077.00	-638.32	-1,148.49	370,070.03	656,887.93	32.0168547	-103.9605086
11,100.00	90.00	182.16	10,077.00	-738.25	-1,152.27	369,970.10	656,884.15	32.0165800	-103.9605219
11,200.00	90.00	182.16	10,077.00	-838.18	-1,156.04	369,870.17	656,880.37	32.0163053	-103.9605352
11,300.00	90.00	182.16	10,077.00	-938.11	-1,159.82	369,770.24	656,876.60	32.0160307	-103.9605485
11,400.00	90.00	182.16	10,077.00	-1,038.04	-1,163.60	369,670.32	656,872.82	32.0157560	-103.9605618
11,500.00	90.00	182.16	10,077.00	-1,137.97	-1,167.38	369,570.39	656,869.04	32.0154813	-103.9605751
11,600.00	90.00	182.16	10,077.00	-1,237.90	-1,171.15	369,470.46	656,865.26	32.0152067	-103.9605884
11,700.00	90.00	182.16	10,077.00	-1,337.82	-1,174.93	369,370.53	656,861.49	32.0149320	-103.9606017
11,800.00	90.00	182.16	10,077.00	-1,437.75	-1,178.71	369,270.60	656,857.71	32.0146574	-103.9606150
11,900.00	90.00	182.16	10,077.00	-1,537.68	-1,182.49	369,170.67	656,853.93	32.0143827	-103.9606283
12,000.00	90.00	182.16	10,077.00	-1,637.61	-1,186.26	369,070.74	656,850.16	32.0141080	-103.9606416
12,100.00	90.00	182.16	10,077.00	-1,737.54	-1,190.04	368,970.82	656,846.38	32.0138334	-103.9606549
12,200.00	90.00	182.16	10,077.00	-1,837.47	-1,193.82	368,870.89	656,842.60	32.0135587	-103.9606682
12,300.00	90.00	182.16	10,077.00	-1,937.40	-1,197.60	368,770.96	656,838.82	32.0132841	-103.9606815
12,400.00	90.00	182.16	10,077.00	-2,037.33	-1,201.37	368,671.03	656,835.05	32.0130094	-103.9606948
12,500.00	90.00	182.16	10,077.00	-2,137.25	-1,205.15	368,571.10	656,831.27	32.0127347	-103.9607081
12,600.00	90.00	182.16	10,077.00	-2,237.18	-1,208.93	368,471.17	656,827.49	32.0124601	-103.9607214
12,700.00	90.00	182.16	10,077.00	-2,337.11	-1,212.70	368,371.24	656,823.71	32.0121854	-103.9607347
12,800.00	90.00	182.16	10,077.00	-2,437.04	-1,216.48	368,271.32	656,819.94	32.0119107	-103.9607480
12,900.00	90.00	182.16	10,077.00	-2,536.97	-1,220.26	368,171.39	656,816.16	32.0116361	-103.9607613
13,000.00	90.00	182.16	10,077.00	-2,636.90	-1,224.04	368,071.46	656,812.38	32.0113614	-103.9607746
13,100.00	90.00	182.16	10,077.00	-2,736.83	-1,227.81	367,971.53	656,808.61	32.0110868	-103.9607879
13,200.00	90.00	182.16	10,077.00	-2,836.75	-1,231.59	367,871.60	656,804.83	32.0108121	-103.9608012
13,300.00	90.00	182.16	10,077.00	-2,936.68	-1,235.37	367,771.67	656,801.05	32.0105374	-103.9608145
13,400.00	90.00	182.16	10,077.00	-3,036.61	-1,239.15	367,671.74	656,797.27	32.0102628	-103.9608278
13,500.00	90.00	182.16	10,077.00	-3,136.54	-1,242.92	367,571.81	656,793.50	32.0099881	-103.9608411
13,600.00	90.00	182.16	10,077.00	-3,236.47	-1,246.70	367,471.89	656,789.72	32.0097134	-103.9608544
13,700.00	90.00	182.16	10,077.00	-3,336.40	-1,250.48	367,371.96	656,785.94	32.0094388	-103.9608677
13,800.00	90.00	182.16	10,077.00	-3,436.33	-1,254.25	367,272.03	656,782.16	32.0091641	-103.9608810
13,900.00	90.00	182.16	10,077.00	-3,536.25	-1,258.03	367,172.10	656,778.39	32.0088895	-103.9608943
14,000.00	90.00	182.16	10,077.00	-3,636.18	-1,261.81	367,072.17	656,774.61	32.0086148	-103.9609076
14,100.00	90.00	182.16	10,077.00	-3,736.11	-1,265.59	366,972.24	656,770.83	32.0083401	-103.9609209
14,200.00	90.00	182.16	10,077.00	-3,836.04	-1,269.36	366,872.31	656,767.05	32.0080655	-103.9609342
14,300.00	90.00	182.16	10,077.00	-3,935.97	-1,273.14	366,772.39	656,763.28	32.0077908	-103.9609474
14,400.00	90.00	182.16	10,077.00	-4,035.90	-1,276.92	366,672.46	656,759.50	32.0075161	-103.9609607
14,500.00	90.00	182.16	10,077.00	-4,135.83	-1,280.70	366,572.53	656,755.72	32.0072415	-103.9609740

Devon Energy

Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,600.00	90.00	182.16	10,077.00	-4,235.76	-1,284.47	366,472.60	656,751.95	32.0069668	-103.9609873
14,700.00	90.00	182.16	10,077.00	-4,335.68	-1,288.25	366,372.67	656,748.17	32.0066922	-103.9610006
14,800.00	90.00	182.16	10,077.00	-4,435.61	-1,292.03	366,272.74	656,744.39	32.0064175	-103.9610139
14,900.00	90.00	182.16	10,077.00	-4,535.54	-1,295.81	366,172.81	656,740.61	32.0061428	-103.9610272
15,000.00	90.00	182.16	10,077.00	-4,635.47	-1,299.58	366,072.89	656,736.84	32.0058682	-103.9610405
15,100.00	90.00	182.16	10,077.00	-4,735.40	-1,303.36	365,972.96	656,733.06	32.0055935	-103.9610538
15,200.00	90.00	182.16	10,077.00	-4,835.33	-1,307.14	365,873.03	656,729.28	32.0053188	-103.9610671
15,300.00	90.00	182.16	10,077.00	-4,935.26	-1,310.91	365,773.10	656,725.50	32.0050442	-103.9610804
15,400.00	90.00	182.16	10,077.00	-5,035.18	-1,314.69	365,673.17	656,721.73	32.0047695	-103.9610937
15,500.00	90.00	182.16	10,077.00	-5,135.11	-1,318.47	365,573.24	656,717.95	32.0044949	-103.9611070
15,600.00	90.00	182.16	10,077.00	-5,235.04	-1,322.25	365,473.31	656,714.17	32.0042202	-103.9611203
15,700.00	90.00	182.16	10,077.00	-5,334.97	-1,326.02	365,373.38	656,710.40	32.0039455	-103.9611336
15,800.00	90.00	182.16	10,077.00	-5,434.90	-1,329.80	365,273.46	656,706.62	32.0036709	-103.9611469
15,900.00	90.00	182.16	10,077.00	-5,534.83	-1,333.58	365,173.53	656,702.84	32.0033962	-103.9611602
16,000.00	90.00	182.16	10,077.00	-5,634.76	-1,337.36	365,073.60	656,699.06	32.0031215	-103.9611735
16,100.00	90.00	182.16	10,077.00	-5,734.68	-1,341.13	364,973.67	656,695.29	32.0028469	-103.9611868
16,200.00	90.00	182.16	10,077.00	-5,834.61	-1,344.91	364,873.74	656,691.51	32.0025722	-103.9612001
16,300.00	90.00	182.16	10,077.00	-5,934.54	-1,348.69	364,773.81	656,687.73	32.0022976	-103.9612134
16,400.00	90.00	182.16	10,077.00	-6,034.47	-1,352.46	364,673.88	656,683.95	32.0020229	-103.9612267
16,500.00	90.00	182.16	10,077.00	-6,134.40	-1,356.24	364,573.96	656,680.18	32.0017482	-103.9612400
16,600.00	90.00	182.16	10,077.00	-6,234.33	-1,360.02	364,474.03	656,676.40	32.0014736	-103.9612532
16,700.00	90.00	182.16	10,077.00	-6,334.26	-1,363.80	364,374.10	656,672.62	32.0011989	-103.9612665
16,800.00	90.00	182.16	10,077.00	-6,434.19	-1,367.57	364,274.17	656,668.84	32.0009242	-103.9612798
16,900.00	90.00	182.16	10,077.00	-6,534.11	-1,371.35	364,174.24	656,665.07	32.0006496	-103.9612931
17,000.00	90.00	182.16	10,077.00	-6,634.04	-1,375.13	364,074.31	656,661.29	32.0003749	-103.9613064
17,049.33	90.00	182.16	10,077.00	-6,683.34	-1,376.99	364,025.02	656,659.43	32.0002394	-103.9613130
TD at 17049.33									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (411H) 100'FNL, 85 - plan misses target center by 1165.71usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	351.12	-1,111.57	371,059.47	656,924.84	32.0195742	-103.9603785
POP 2 (411H) 50'FNL, 8 - plan misses target center by 1179.56usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	401.11	-1,109.27	371,109.46	656,927.15	32.0197116	-103.9603705
LTP 2 (411H) 100'FSL, 8 - plan misses target center by 2.03usft at 16999.35usft MD (10077.00 TVD, -6633.40 N, -1375.10 E) - Point	0.00	0.01	10,077.00	-6,633.32	-1,377.13	364,075.03	656,659.29	32.0003769	-103.9613129
BHL 2 (411H) 50'FSL, 8 - plan hits target center - Point	0.00	0.00	10,077.00	-6,683.34	-1,376.99	364,025.02	656,659.43	32.0002394	-103.9613130

Devon Energy

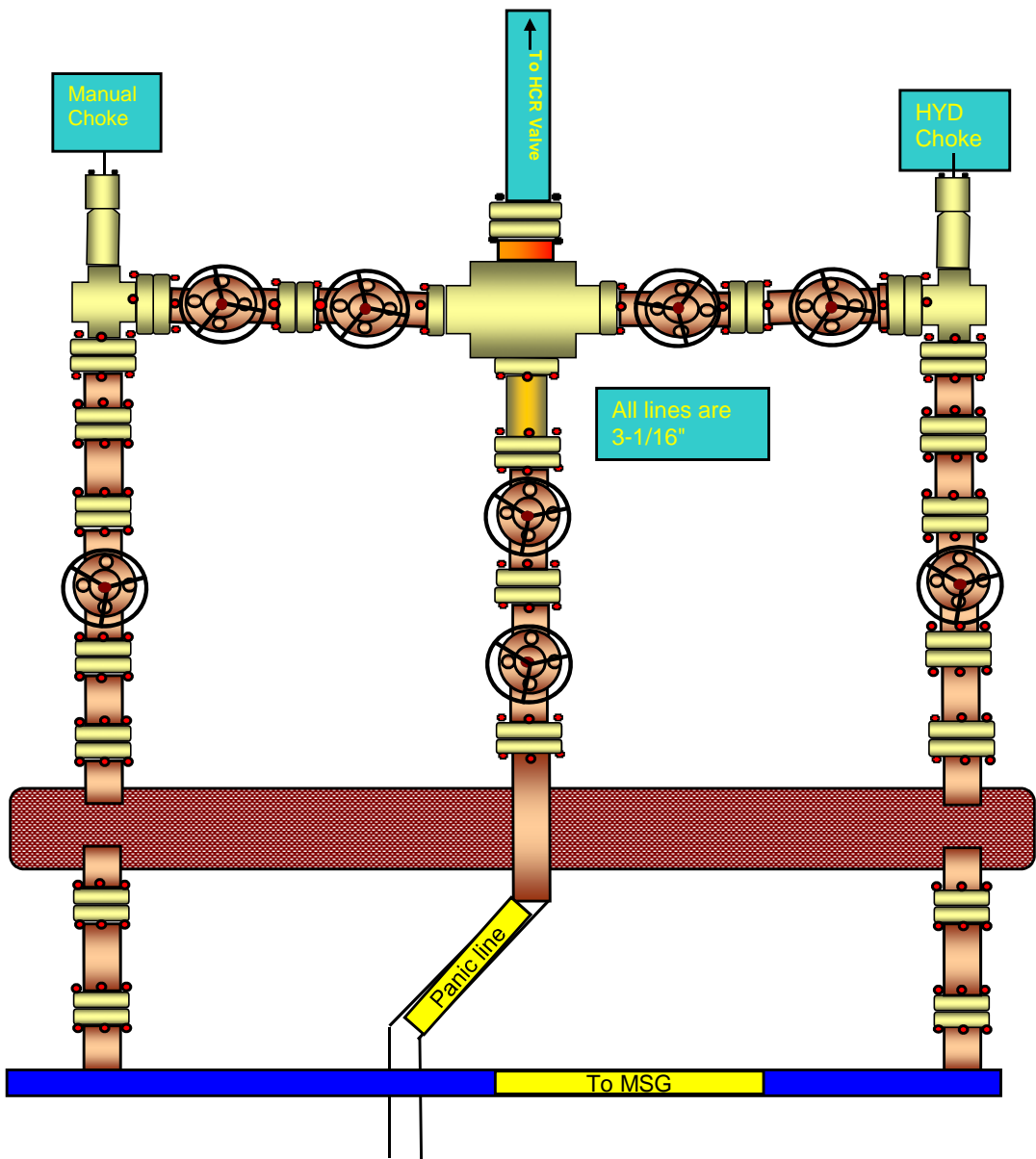
Planning Report - Geographic

Database:	EDM r5000.16_Prod US	Local Co-ordinate Reference:	Well Steel Guitar 35-26-29 Fed Com 411H Permit
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:2890+27ft @ 2917.00usft (H&P 600)
Site:	Steel Guitar East	North Reference:	Grid
Well:	Steel Guitar 35-26-29 Fed Com 411H Permit	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (850'FWL) WC Uppr		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
386.00	386.00	Rustler				
818.00	818.00	Salado				
1,261.00	1,261.00	Castile (Top of Salt) (Est.)				
2,967.38	2,967.00	Bell Canyon (Base of Salt)				
4,029.93	4,007.00	Cherry Canyon				
5,147.56	5,096.00	Brushy Canyon				
6,794.75	6,701.00	Bone Spring				
6,893.28	6,797.00	Avalon Upper				
7,396.16	7,287.00	Avalon Lower				
7,745.10	7,627.00	1st Bone Spring Sand				
8,058.64	7,933.00	2nd Bone Spring Lime				
8,378.55	8,250.00	2nd Bone Spring Sand				
8,841.75	8,713.00	3rd Bone Spring Lime				
9,187.75	9,059.00	Harkey Sandstone				
9,655.75	9,527.00	3rd Bone Spring Sand				
10,023.28	9,865.00	Wolfcamp Top				
10,057.62	9,891.00	Wolfcamp X				
10,175.22	9,969.00	Wolfcamp Y				
10,226.38	9,997.00	Wolfcamp A				
10,405.87	10,063.00	Top Target				
10,532.79	10,077.00	Landing Point				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,702.00	2,702.00	0.00	0.00	Start Build 2.00	
3,351.82	3,346.27	24.96	-69.01	Hold	
7,943.92	7,820.73	376.14	-1,040.19	EOH	
8,593.75	8,465.00	401.10	-1,109.20	Vertical	
9,632.79	9,504.04	401.10	-1,109.20	KOP @ 9632.79'MD	
10,532.79	10,077.00	-171.45	-1,130.84	Landing Point @10532.79'MD	
17,049.33	10,077.00	-6,683.34	-1,376.99	TD at 17049.33	

5M Choke Manifold



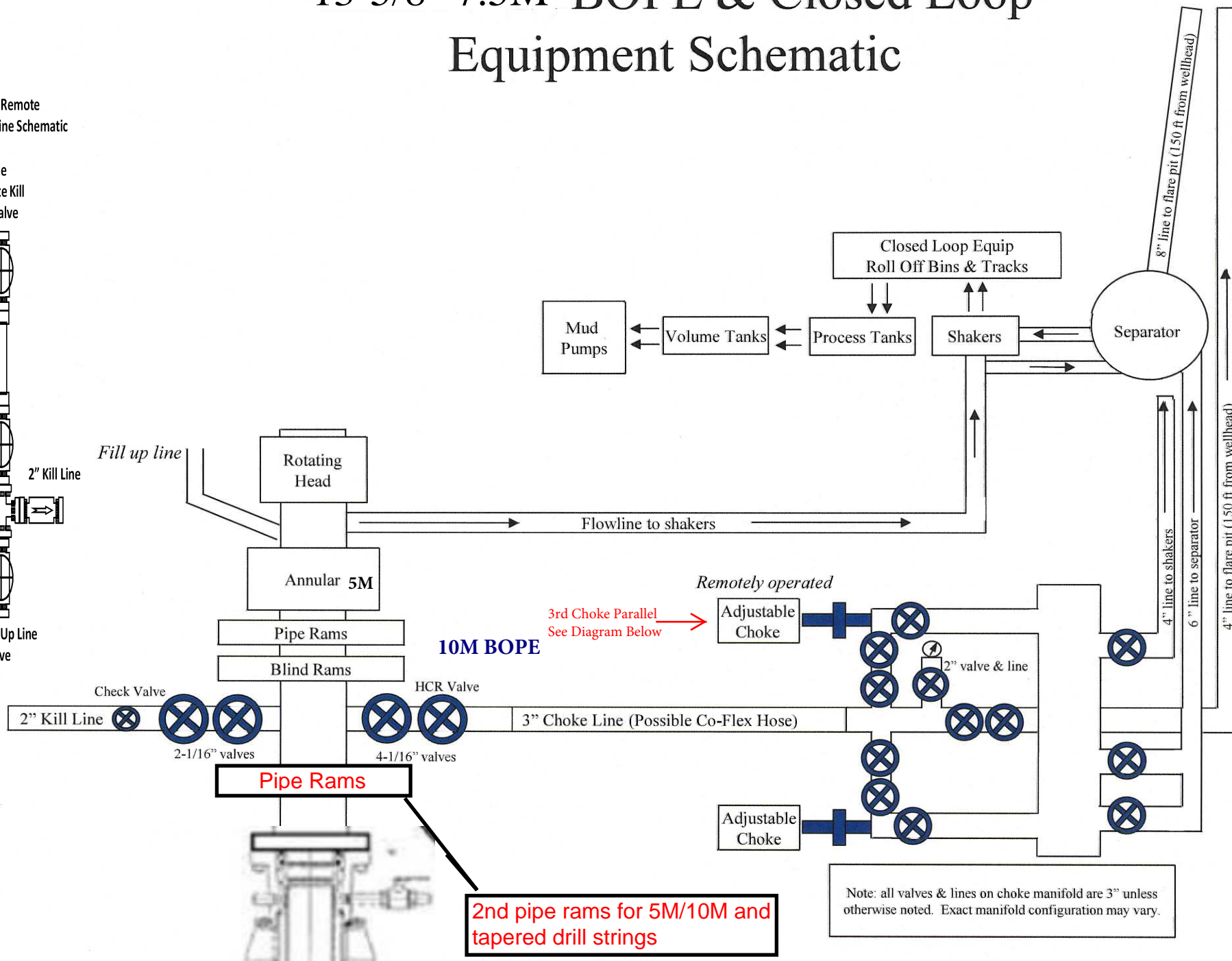
13-5/8" 7.5M BOPE & Closed Loop Equipment Schematic

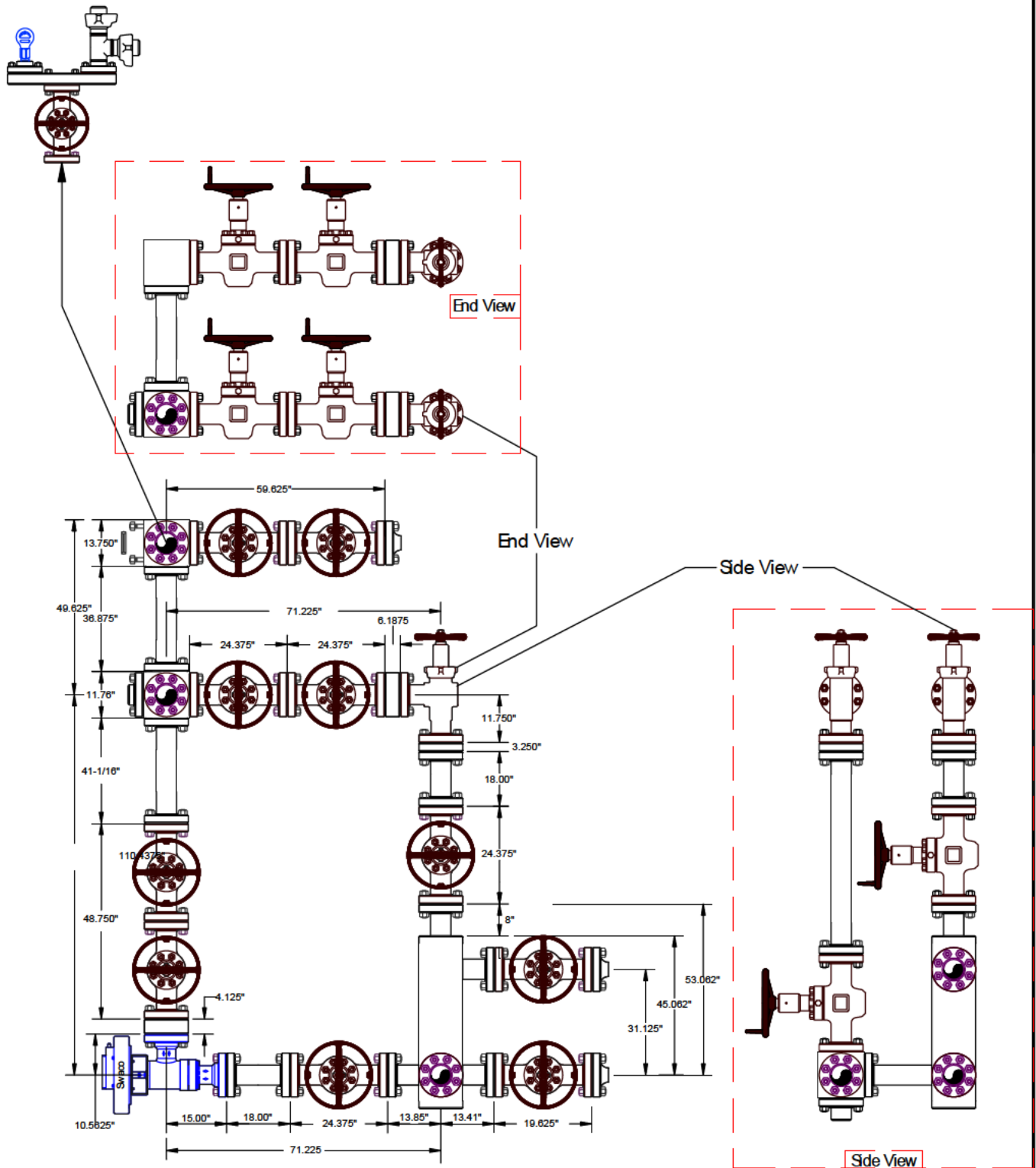
10M Remote Kill Line Schematic

Outside Remote Kill Line Valve



Fill Up Line Valve





Name	Jeanette	Date	7-19-06	Working Pressure	#	J-5132-E
------	----------	------	---------	------------------	---	----------

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 411H
SURFACE HOLE FOOTAGE:	442'/N & 1976'/W
BOTTOM HOLE FOOTAGE:	50'/S & 820'/W
LOCATION:	Section 26, T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Brushy Draw Pool** 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.

- 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 a previous casing at approximately **9,633 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 County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of **4** hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

YJ (06/14/2021)



WPX Energy Permian, LLC

**3500 One Williams Center
Tulsa, Oklahoma 74172**

Hydrogen Sulfide (H₂S) Contingency Plan

For

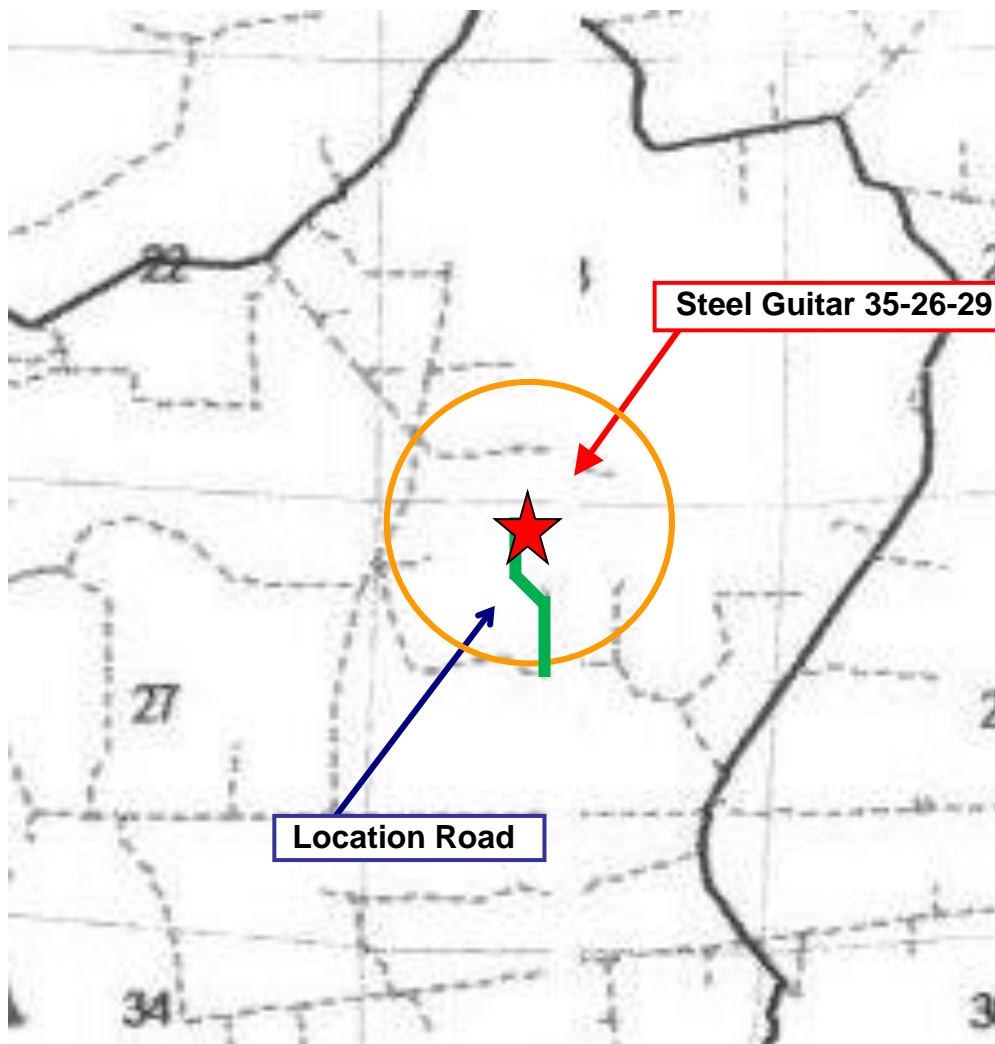
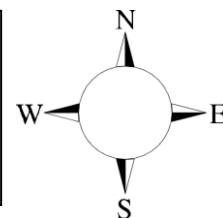
Steel Guitar 35-26-29 Fed Com 411H

**Sec-26 T-26S R-29E
442' FNL & 1976' FWL
LAT. = 32.0185984' N (NAD83)
LONG = 103.9567959' W**

Eddy County NM

Steel Guitar 35-26-29 Fed Com 411H

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.



Steel Guitar 35-26-29 Fed Com 411H

Location Road

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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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 H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

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

7. Well testing:

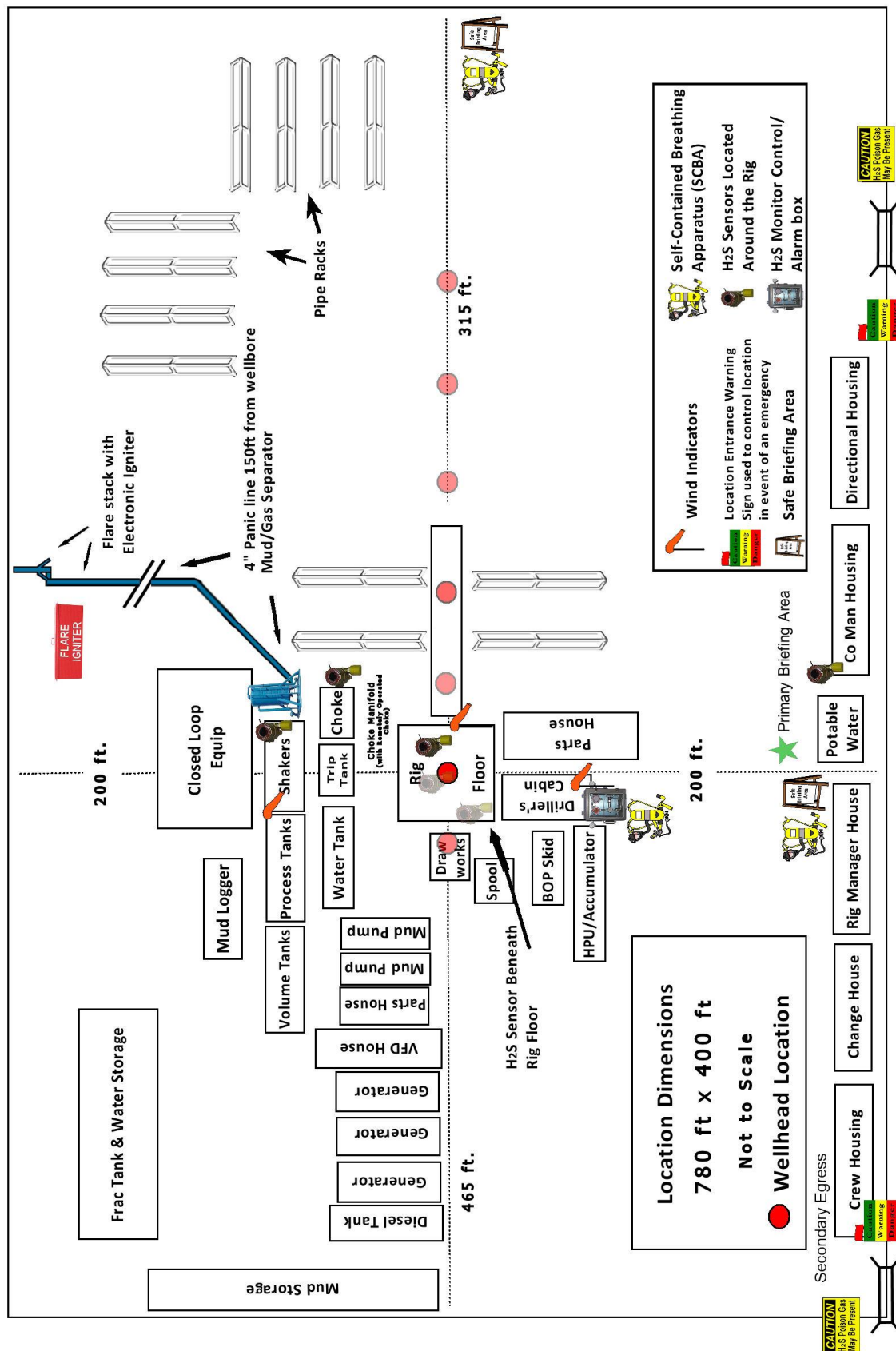
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing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

<u>WPX Energy Permian. Company Call List</u>		
Drilling Supervisor – Keith Jordan		601-431-3739
Ian Ensell		719-761-2440
EHS Professional – Laura Wright		405-439-8129
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	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
<u>Give GPS position:</u>	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
	Flight For Life - Lubbock, TX	(806) 743-9911
	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



WPX Energy Permian- Well Pad Rig Location Layout Safety Equipment Location



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
District IV
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

COMMENTS

Action 135119

COMMENTS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 135119
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
kpickford	Defining well 30-015-49848 STEEL GUITAR 35 26 29 FEDERAL COM #413H	8/19/2022

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

District IV

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 135119

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 135119
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	8/19/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/19/2022
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	8/19/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	8/19/2022
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	8/19/2022