

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. 30-015-54194	
3a. Address		3b. Phone No. (include area code)	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory 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)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
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)



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-54194		² Pool Code 24750		³ Pool Name FORTY NINER RIDGE DELAWARE					
⁴ Property Code 334690		⁵ Property Name EEYORE FED COM 27 28 PML						⁶ Well Number 4H	
⁷ OGRID NO. 21712		⁸ Operator Name STRATA PRODUCTION COMPANY						⁹ Elevation 3371'	
¹⁰ Surface Location									
UL or lot no. P	Section 27	Township 23S	Range 30E	Lot Idn	Feet from the 400	North/South line SOUTH	Feet From the 330	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 28	Township 23S	Range 30E	Lot Idn	Feet from the 400	North/South line SOUTH	Feet from the 100	East/West line WEST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

<p>¹⁶</p> <p><u>GEODETIC DATA</u> NAD 83 GRID - NM EAST</p> <p><u>SURFACE LOCATION</u> N: 462191.2 - E: 687218.1 LAT: 32.2697564° N LONG: 103.8613480° W</p> <p><u>GEODETIC DATA</u> NAD 83 GRID - NM EAST</p> <p><u>BOTTOM HOLE</u> N: 462139.0 - E: 676950.8 LAT: 32.2697328° N LONG: 103.8945668° W</p>		<p><u>CORNER DATA</u> NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1942" N: 461738.8 - E: 676853.9 B: FOUND BRASS CAP "1942" N: 464397.1 - E: 676833.0 C: FOUND BRASS CAP "1942" N: 467056.9 - E: 676813.6 D: FOUND BRASS CAP "1942" N: 467055.3 - E: 679493.2 E: FOUND BRASS CAP "1942" N: 467055.4 - E: 682172.6 F: FOUND BRASS CAP "1942" N: 467070.0 - E: 684851.5 G: FOUND BRASS CAP "1942" N: 467084.8 - E: 687530.3</p> <p>H: FOUND BRASS CAP "1942" N: 464438.9 - E: 687539.5 I: FOUND BRASS CAP "1942" N: 461793.6 - E: 687549.5 J: FOUND BRASS CAP "1942" N: 461774.6 - E: 684874.6 K: FOUND BRASS CAP "1942" N: 461758.2 - E: 682200.1 L: FOUND BRASS CAP "1942" N: 461748.4 - E: 679526.2 M: FOUND BRASS CAP "1942" N: 464404.8 - E: 682185.2</p>		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Jerry Elgin</i> 05/16/2023 Signature Date Jerry Elgin, VP of Operations Printed Name jelgin@stratanm.com E-mail Address</p>	
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>04/28/2022 Date of Survey Signature and Seal of Professional Surveyor</p> <p>14400 Certificate Number</p>		<p>DALE E. BELL NEW MEXICO 14400 05/16/2023 PROFESSIONAL SURVEYOR</p>			

Job No: LS22040507R

**Strata Production Company
Natural Gas Management Plan**

**Eeyore 27 28 PML Fed Com #4H
Section 27-T23S-R30E
Eddy County, New Mexico**

Attachment to NMOCD Form NGMP

VI. Separation Equipment

Separation equipment consists of a 6' X 20' X 250 psi 3 phase separator at the well site in Section 27-T23S-R30E that separates the gas, water, and oil. The gas is routed to a gas gathering line that follows Strata's corridor through the field to Common Tank Battery 2 in the SWNW of Section 23-T23S-R30E where the gas goes through a 2 phase separator to remove any residual liquids, then through a compressor and into an interconnect with Enterprise GD LLC located in the NENE of Section 22-T23S-R30E (all in Eddy County, NM).

The oil and water are routed to Common Tank Battery 2 in the SWNW of Section 23-T23S-R30E where the oil goes through a separator to remove any residual gas then through a heater treater to remove any residual water. The oil is then stored in 500 bbl steel tanks at the battery. The facility separator, heater treater, and tanks are tied into a vapor recover unit so any liberated gas is routed into the gas gathering line.

VII. Strata Production Company will take the following actions to comply with regulations outlined in 19.15.27.8.

A. Venting and Flaring of Natural Gas

Strata will maximize recovery of natural gas by minimizing the waste, as defined in 19.15.2 NMAC, of natural gas through venting and flaring. Strata will be connected to natural gas gathering systems with sufficient capacity to transport its produced natural gas. If there is inadequate capacity to transport the gas, the well(s) will be shut in until there is adequate capacity or other arrangements can be made to avoid waste.

B. Venting and Flaring During Drilling Operations

Drilling rigs shall be equipped with a rig flare located at least 100 ft from the well. The flare will be utilized to combust any natural gas produced through drilling operations. Should gas be flared, an estimated volume will be reported as required by statutes. Gas will not be flared during normal drilling operations.

C. Venting and Flaring During Completion Operations

Natural gas produced during completion operations will be flared. All gas produced will be directed to permanent separation equipment and into sales as soon as practical. If natural gas does not meet pipeline specifications, Strata may flare the gas for up to 60 days or until the gas meets pipeline specifications, whichever is sooner. Strata will properly size the flare which will be equipped with automatic ignition source. The gas will be sampled no less than twice per week and the gas will be routed through Strata's gathering system as soon as it meets pipeline specifications.

D. Venting and Flaring During Production Operations

Natural gas will not be flared during normal production operations except as is allowed under 19.15.27.8 D (1)-(4). If capacity is inadequate, well(s) will be shut in until there is adequate capacity or other arrangements can be made to avoid waste except during emergency or malfunction situations. Flared volumes will be reported as required by statutes.

E. Performance Standards

Strata will comply with the performance standards per 19.15.27.8 E (1)-(8). All equipment will be designed to accommodate anticipated volumes and pressures. Storage tanks will be equipped with automatic gauging equipment connected to Strata's SCADA system. Flares will be located at least 100 ft from wells and storage tanks and will be equipped with automatic ignition sources. Strata will conduct AVO inspections to comply with 19.15.27.8 E (5) (a) and 19.15.27.8 E (5) (b)-(c). Any emergency situations resulting in flaring will be resolved to minimize waste.

F. Measurement of Vented and Flared Natural Gas

Gas flared as the result of emergency or malfunction will be metered. Gas used beneficially during production operations will be metered or estimated. Should metering be impractical due to equipment malfunction or low flow, Strata will estimate the volume of gas vented or flared. All metering equipment will conform to industry standards and will not be equipped with a bypass around metering equipment except for the sole purpose of inspecting or servicing the metering equipment.

VIII. Maintenance Activities

For maintenance activities involving production equipment and compression, venting will be limited to depressurization of the equipment to provide safe working conditions. In the event maintenance is required on pressurized equipment, associated producing wells will be shut in to minimize waste. Gas normally routed through a vapor recovery unit may be routed to flares to avoid venting for the maintenance of VRU's and associated equipment.

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: Strata Production Company **OGRID:** 21712 **Date:** 08 / 31 / 23

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
Eeyore Fed Com 27 28		Sec 27-T23S-R30E	400' FSL &	800	1,200	2,200
PML 4H			330' FWL			

IV. Central Delivery Point Name: Common Tank Battery #2 [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
Eeyore Fed Com 27 28		9/3/2023	10/13/2023	10/18/2023	10/23/2023	10/28/2023
PML 4H						

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
Eeyore Fed Com 27 28 PML 4H		1,200	400,000

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
Strata Production Co.	Forty Niner Ridge	Sec 30-T23S-R30E	10/28/2023	15,000,000

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.

Section 3 - Certifications

Effective May 25, 2021

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

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

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ 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

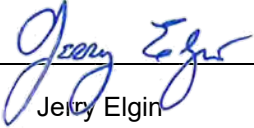
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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:	Jerry Elgin
Title:	Vice President Operations
E-mail Address:	jelgin@stratanm.com
Date:	08/31/2023
Phone:	575-622-1127, ext 18
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Common Tank Battery 2

LEGEND

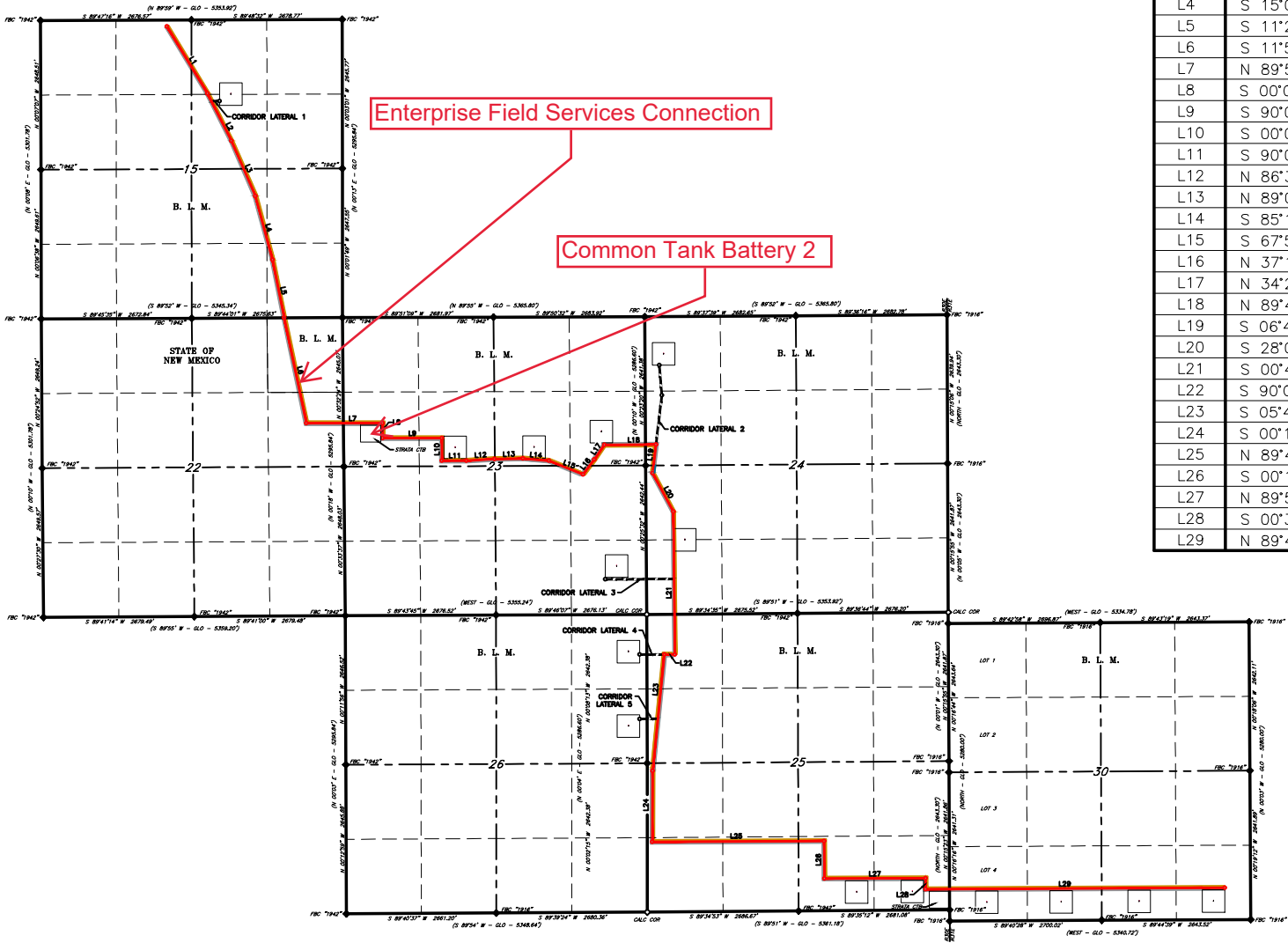
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701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 3000'
DATE: 5/22/2019
SURVEYED BY: BK/AS
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 12

NO.	REVISION	DATE	JOB NO.: LS19050633	DWG. NO.: 19050633-1

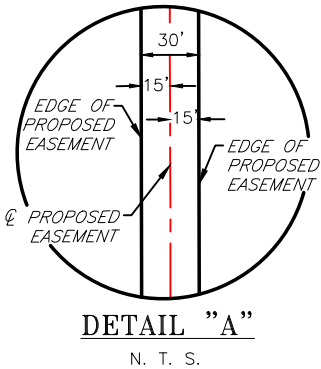
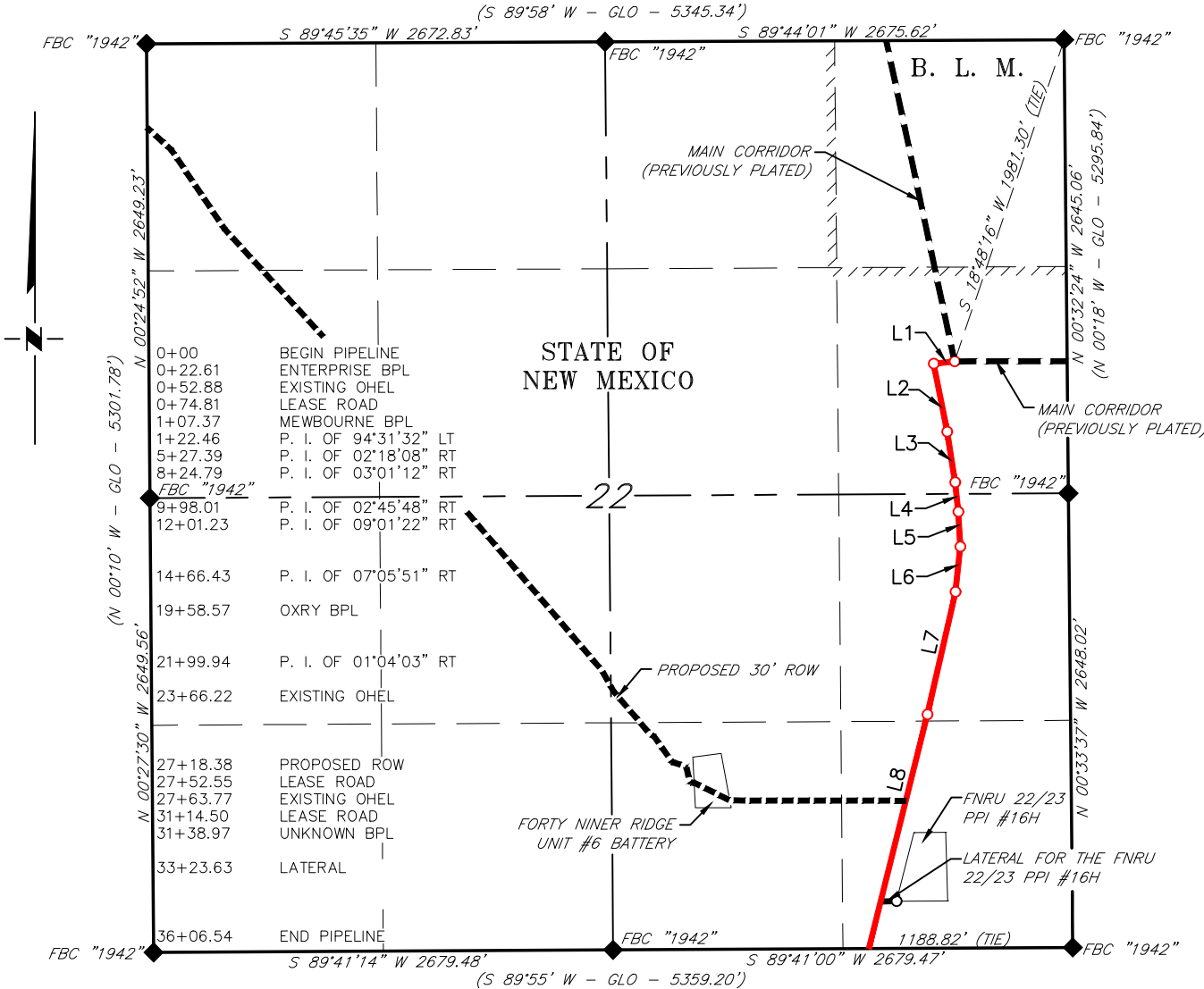


STRATA PRODUCTION COMPANY

CTB 2 TO FNRU SWD

SECTION 22, T23S, R30E

N. M. P. M., EDDY COUNTY, NEW MEXICO



LINE TABLE		
LINE	BEARING	LENGTH
L1	S 83°16'14" W	122.46'
L2	S 11°15'18" E	404.93'
L3	S 08°57'10" E	297.40'
L4	S 05°55'58" E	173.22'
L5	S 03°10'10" E	203.22'
L6	S 05°51'12" W	265.20'
L7	S 12°57'03" W	733.51'
L8	S 14°01'06" W	1,406.61'

SCALE: 1" = 1000'

0 500' 1000'

BEARINGS ARE GRID NAD 83 NM EAST

DISTANCES ARE HORIZ. GROUND.

LEGEND

() RECORD DATA - GLO

◆ FOUND MONUMENT AS NOTED

— PROPOSED PIPELINE

I, Dale E. Bell, New Mexico Professional Surveyor No. 14400, do hereby certify that this Plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey, said survey and plat meets the Minimum Standards for Land Surveying in the State of New Mexico and that it is true and correct to the best of my knowledge and belief.

Dale E. Bell NM PS 14400



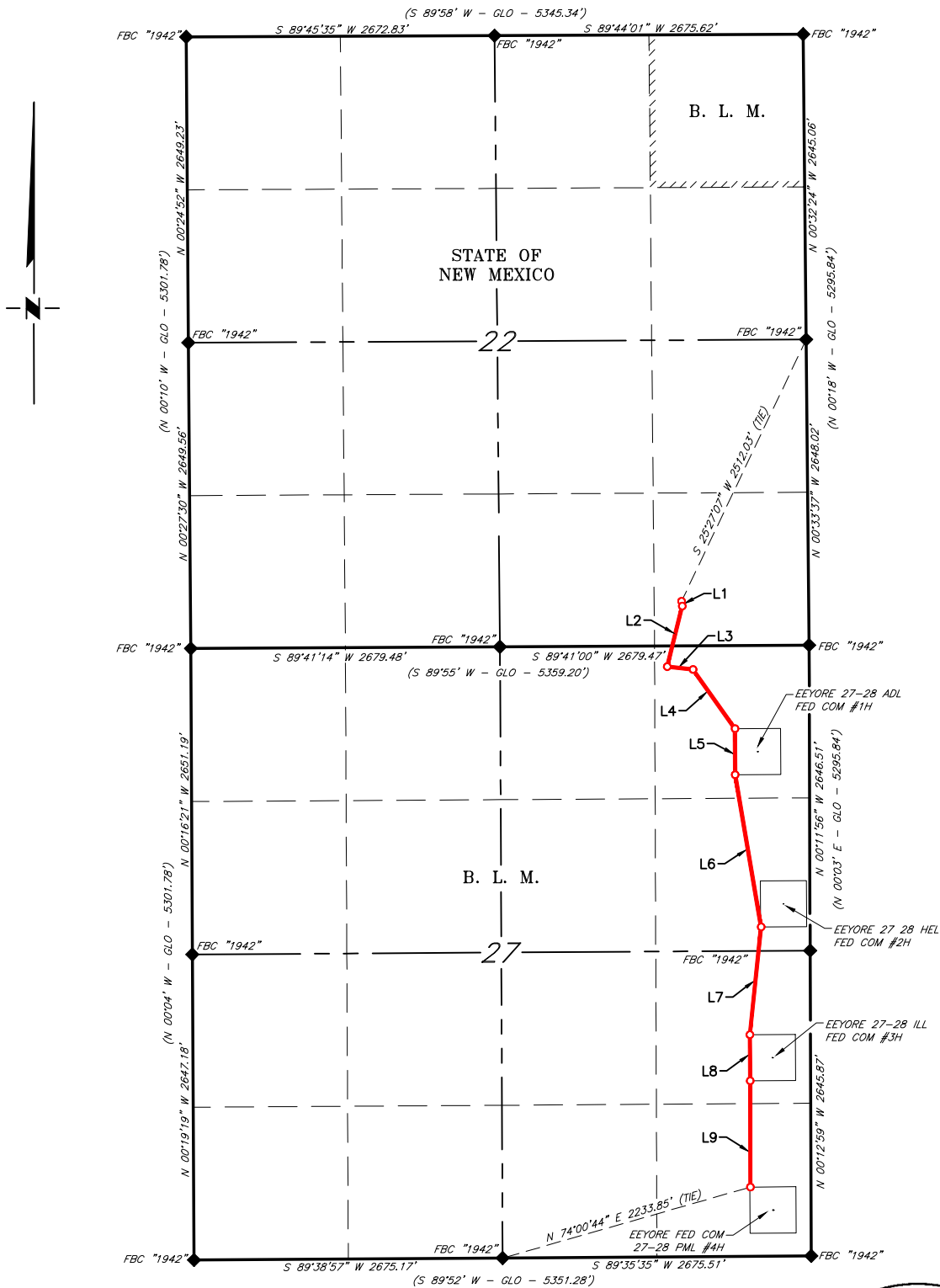
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NO.	REVISION	DATE
JOB NO.: LS22060710R		
DWG. NO.: 22060710R-1		



SCALE: 1" = 1000'
DATE: 06/09/2022
SURVEYED BY:RU/TF/OC
DRAWN BY: RQ
APPROVED BY:DEB
SHEET: 1 OF 3

STRATA PRODUCTION COMPANY
EEYORE 27-28 ADL FED WELLS TO CORRIDOR
SECTIONS 22 & 27, T23S, R30E
N. M. P. M., EDDY COUNTY, NEW MEXICO



LINE TABLE		
LINE	BEARING	LENGTH
L1	S 07°56'55" E	42.36'
L2	S 13°57'13" W	540.54'
L3	S 83°39'24" E	224.94'
L4	S 35°22'24" E	627.86'
L5	S 00°18'31" E	399.87'
L6	S 09°40'01" E	1,337.75'
L7	S 05°57'42" W	938.88'
L8	S 00°23'37" E	400.01'
L9	S 00°07'43" E	919.98'



LEGEND

- () RECORD DATA - GLO
- ◆ FOUND MONUMENT AS NOTED
- PROPOSED PIPELINE

SCALE: 1" = 1400'

0 700' 1400'

BEARINGS ARE GRID NAD 83
NM EAST
DISTANCES ARE HORIZ. GROUND.

1	REROUTE	5/12/23
NO.	REVISION	DATE
JOB NO.: LS23030302R		
DWG. NO.: 23030302R-1		



701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1400'
DATE: 03/27/2023
SURVEYED BY: JF/GA
DRAWN BY: LM
APPROVED BY: DEB
SHEET: 1 OF 4



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

Drilling Plan Data Report

08/31/2023

APD ID: 10400085607

Submission Date: 06/28/2022

Highlighted data
reflects the most
recent changes

Operator Name: STRATA PRODUCTION COMPANY

Well Name: EEYORE FED COM 27 28 PML

Well Number: 4H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
12038329	RUSTLER	2859	511	511	ANHYDRITE	NONE	N
12038328	TOP SALT	2149	710	710	SALT	NONE	N
12038324	BASE OF SALT	-847	3706	3706	SALT	NONE	N
12038330	LAMAR	-1022	3881	3881	LIMESTONE	NATURAL GAS, OIL	N
12038331	BELL CANYON	-1054	3913	3913	SANDSTONE	NATURAL GAS, OIL	Y
12038325	CHERRY CANYON	-1997	4856	4856	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12038326	BRUSHY CANYON	-3284	6143	6143	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12038327	BONE SPRING	-4924	7783	7783	LIMESTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 7700

Equipment: Annular, Blind Rams, Double Rams, Mud Gas Separator, Remote kill line and other equipment as listed on 3M attachment

Requesting Variance? NO

Variance request:

Testing Procedure: BOPE will be tested by an independent service company to 250# psi low pressure and 3000# psi high pressure per Onshore Oil and Gas Order 2 requirements

Choke Diagram Attachment:

Eeyore_Fed_Com_27_28_PML_4H_Choke_Diagram_20220523142048.pdf

BOP Diagram Attachment:

Eeyore_Fed_Com_27_28_PML_4H_BOP_20220523142111.pdf

Eeyore_Fed_Com_27_28_PML_4H_BOPE_Description_20220523142112.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: EEYORE FED COM 27 28 PML

Well Number: 4H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3371	2921	450	H-40	48	ST&C	3.95	7.39	DRY	14.91	DRY	25
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4200	0	4200	3371	-829	4200	J-55	40	LT&C	1.41	1.81	DRY	3.8	DRY	2.7
3	PRODUCTION	8.75	5.5	NEW	API	N	0	17564	0	7501	3371	-4130	17564	HCP-110	20	BUTT	1.46	1.38	DRY	1.86	DRY	1.9

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Eeyore_Fed_Com_27_28_PML_4H_Casing_Worksheet_20220624141714.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: EEYORE FED COM 27 28 PML

Well Number: 4H

Casing Attachments

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Eeyore_Fed_Com_27_28_PML_4H_Casing_Worksheet_20220624141410.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Eeyore_Fed_Com_27_28_PML_4H_Casing_Worksheet_20220624141821.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	450	575	1.33	14.8	136	100	Class C	CaCl, LCM
INTERMEDIATE	Lead		0	3050	1047	1.98	12.6	369	100	Class C Poz	Salt, gel, extender, LCM
INTERMEDIATE	Tail		3050	4200	150	1.34	14.8	36	100	Class C	LCM
PRODUCTION	Lead	5200	0	4700	467	2.64	11.5	220	50	Class C Poz	Salt, gel , extender, LCM

Operator Name: STRATA PRODUCTION COMPANY**Well Name:** EEYORE FED COM 27 28 PML**Well Number:** 4H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		4700	5200	128	1.34	14.8	31	50	Class C Poz	none
PRODUCTION	Lead		5200	7000	289	2.38	11.8	122	50	Class H Poz	Salt, gel , extender, LCM
PRODUCTION	Tail		7000	1756 4	3280	1.22	14.4	713	50	Class H Poz	Salt, gel , extender, LCM

Section 5 - Circulating Medium

Mud System Type: Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:****Describe what will be on location to control well or mitigate other conditions:** Kelly cock in the drill string, a full opening drill pipe stabbing valve on rig floor, remote kill line, mud gas separator.**Describe the mud monitoring system utilized:** Pason pit level monitors, hourly weight check and viscosity, gel strength and pH, solids control.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	WATER-BASED MUD	8.5	8.9			10				Spud with fresh water and build mud while drilling.
450	4200	SALT SATURATED	10	10.5			10				Drill with brine water with LCM and gel sweeps.
4200	1756 4	WATER-BASED MUD	9.5	10.2			10				Drill with water based mud using sliders and gel sweeps in the lateral.

Operator Name: STRATA PRODUCTION COMPANY**Well Name:** EEYORE FED COM 27 28 PML**Well Number:** 4H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None

List of open and cased hole logs run in the well:CALIPER, CEMENT BOND LOG, COMPENSATED DENSITOMETER LOG, DUAL LATERAL LOG/MICRO-SPHERICALLY
FOCUSED, GAMMA RAY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,**Coring operation description for the well:**

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3360**Anticipated Surface Pressure:** 1709**Anticipated Bottom Hole Temperature(F):** 125**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

Eeyore_Fed_Com_27_28_PML_4H_H2S_Plan_20220523142232.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Eeyore_Fed_Com_27_28_PML_4H_Well_Plan_20220624144027.pdf

Eeyore_Fed_Com_27_28_PML_4H_Wellbore_Diagram_20221103145227.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

Eeyore_Fed_Com_27_28_PML_4H_NGMP_20221103145339.pdf

Other Variance attachment:

CONFIDENTIAL

Strata Production Company

Company: Strata Production Company
Well: Eeyore Fed Com 27 28 PML #4H
County: Eddy County, New Mexico (NAD 83)
Rig: Norton 2
Wellbore: Wellbore #1
Design: Design #1
Date: 11:56, June 02 2022

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

MS Directional

Vertical Section at 269.71° (400 usft/in)

True Vertical Depth, (400 usft/in)

South (-)/North (+) (300 usft/in)

KOP, 12.00°/100' Build

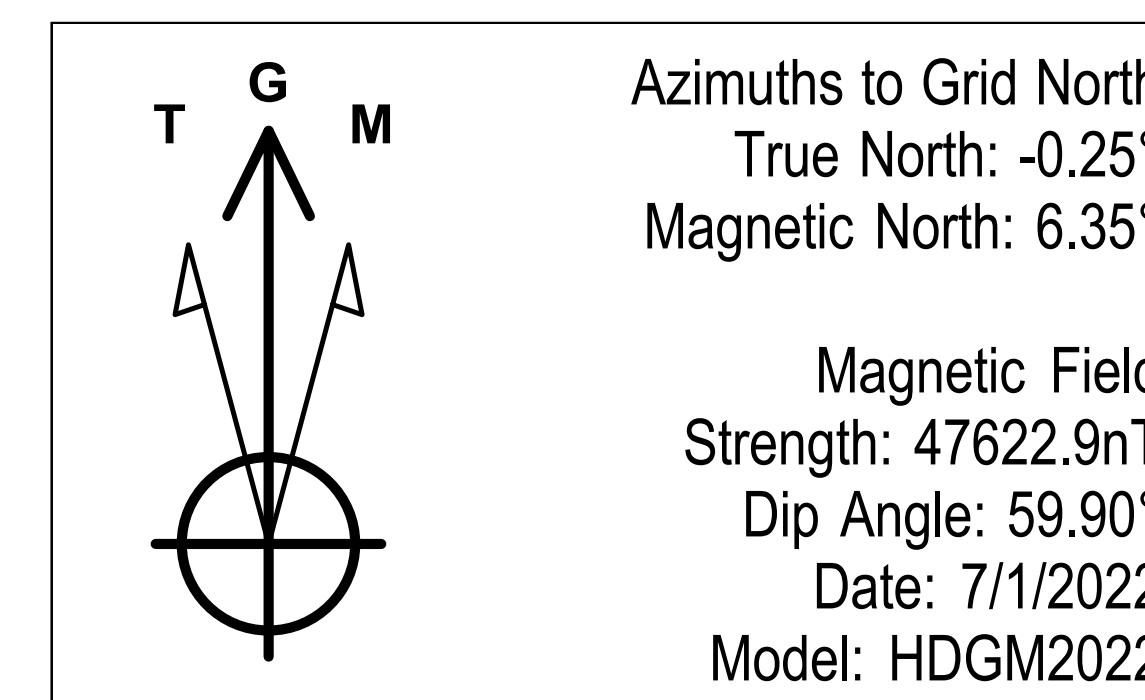
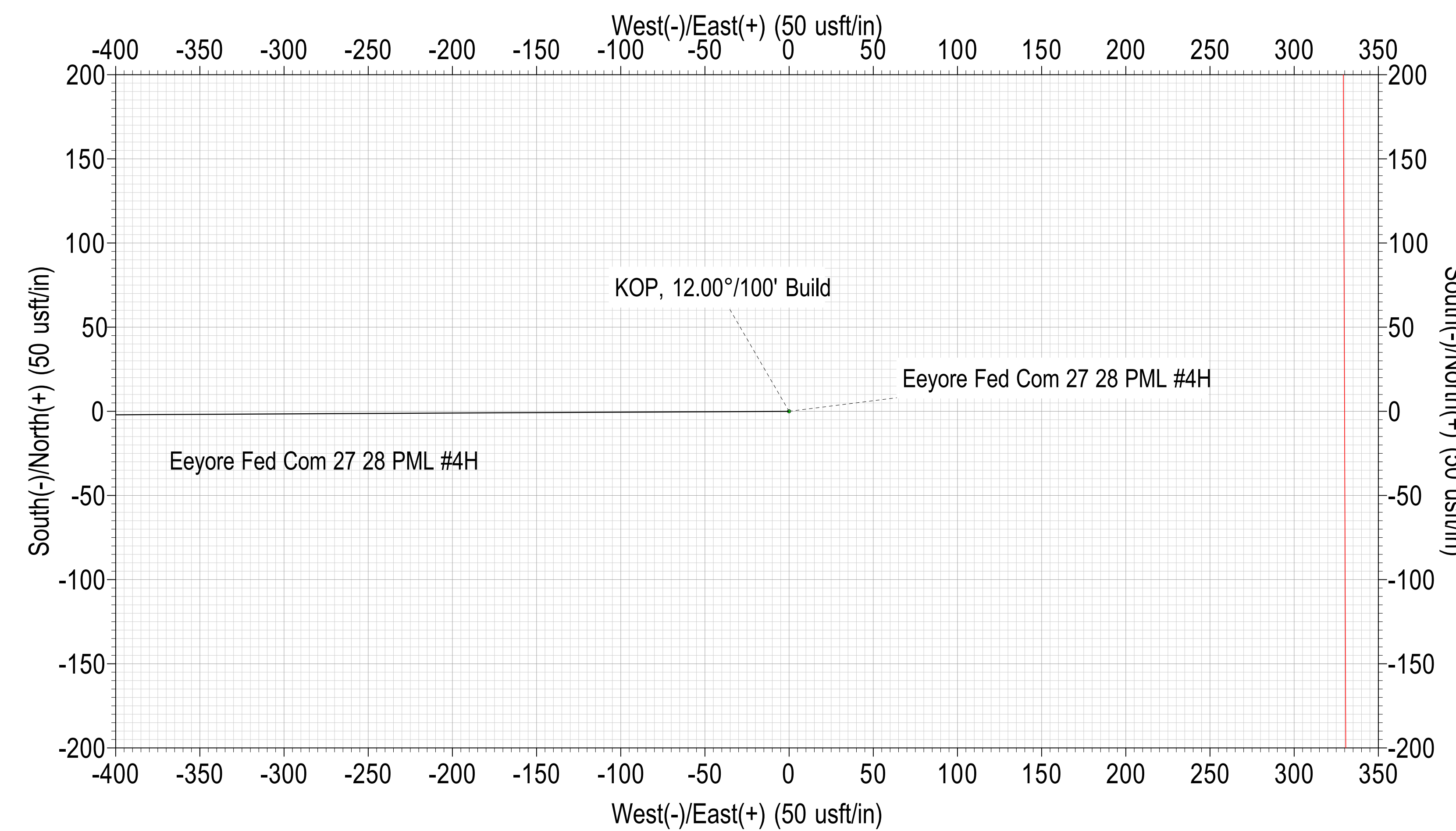
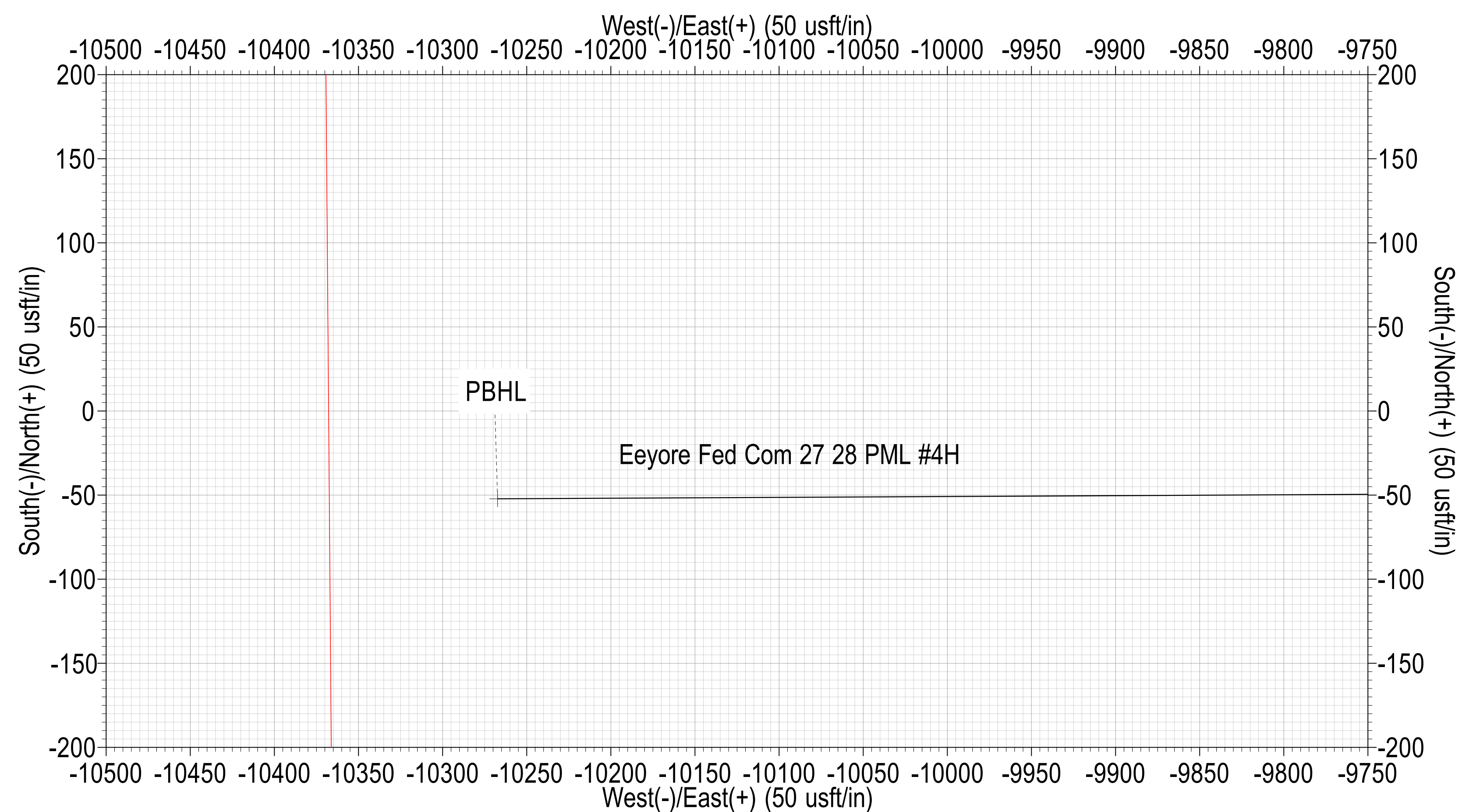
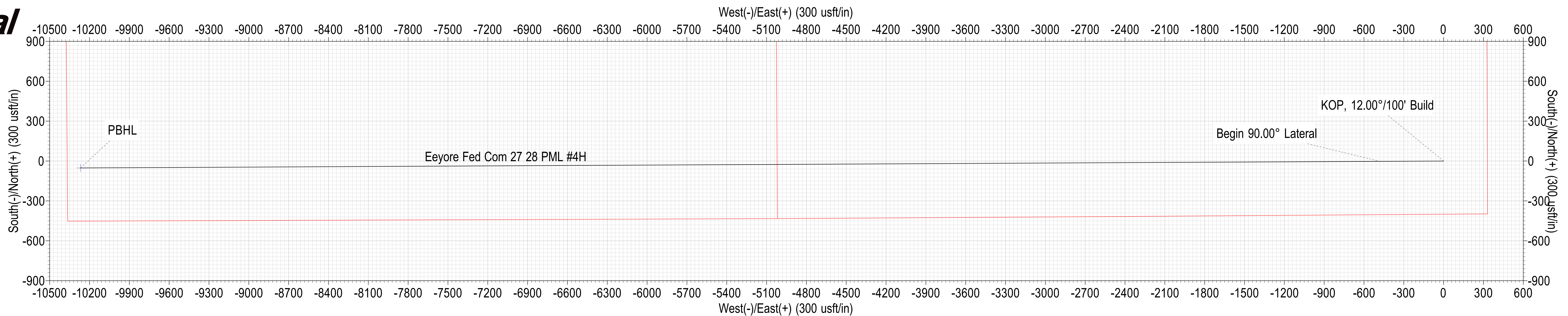
Begin 90.00° Lateral

		GL @ 3371.00	WELL @ 3388.00usft (Norton 2)		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	462191.20	687218.10	32° 16' 11.123 N	103° 51' 40.852 W

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Eeyore Fed Com 27 28 PML #4H	7501.00	-52.20	-10267.30	462139.00	676950.80	32° 16' 11.038 N	103° 53' 40.440 W

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
7023.54	0.00	0.00	7023.54	0.00	0.00	0.00	0.000	0.00	KOP, 12.00°/100' Build
7773.54	90.00	269.71	7501.00	-2.43	-477.46	12.00	269.709	477.46	Begin 90.00° Lateral
17563.50	90.00	269.71	7501.00	-52.20	-10267.30	0.00	0.000	10267.43	PBHL

Depth From	Depth To	Survey/Plan	Tool
0.00	17563.50	Design #1 (Wellbore #1)	MWD+HRGM



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Directional are at the sole risk and responsibility of the customer. MS Directional is not responsible for the accuracy of this schematic or the information contained herein.

Strata Production Company

Strata Production Company

Eddy County, New Mexico (NAD 83)

Eeyore Fed Com 27 28 PML #4H

Eeyore Fed Com 27 28 PML #4H

Wellbore #1

Plan: Design #1

Standard Planning Report

02 June, 2022



Strata Production Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Eeyore Fed Com 27 28 PML #4H
Company:	Strata Production Company	TVD Reference:	WELL @ 3388.00usft (Norton 2)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3388.00usft (Norton 2)
Site:	Eeyore Fed Com 27 28 PML #4H	North Reference:	Grid
Well:	Eeyore Fed Com 27 28 PML #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Eddy County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Eeyore Fed Com 27 28 PML #4H		
Site Position:		Northing:	462,191.20 usft
From:	Map	Easting:	687,218.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 11.123 N
		Longitude:	103° 51' 40.852 W

Well	Eeyore Fed Com 27 28 PML #4H		
Well Position	+N/-S	0.00 usft	Northing: 462,191.20 usft
	+E/-W	0.00 usft	Easting: 687,218.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.252 °	Ground Level:	3,371.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	7/1/2022	6.600	59.900	47,622.90

Design	Design #1				
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	269.71	

Plan Survey Tool Program	Date	6/1/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,563.50	Design #1 (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	

Plan Sections											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000		
7,023.54	0.00	0.00	7,023.54	0.00	0.00	0.00	0.00	0.00	0.000		
7,773.54	90.00	269.71	7,501.00	-2.43	-477.46	12.00	12.00	0.00	269.709		
17,563.50	90.00	269.71	7,501.00	-52.20	-10,267.30	0.00	0.00	0.00	0.000	PBHL - Eeyore Fed	

Strata Production Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Eeyore Fed Com 27 28 PML #4H
Company:	Strata Production Company	TVD Reference:	WELL @ 3388.00usft (Norton 2)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3388.00usft (Norton 2)
Site:	Eeyore Fed Com 27 28 PML #4H	North Reference:	Grid
Well:	Eeyore Fed Com 27 28 PML #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Strata Production Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Eeyore Fed Com 27 28 PML #4H
Company:	Strata Production Company	TVD Reference:	WELL @ 3388.00usft (Norton 2)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3388.00usft (Norton 2)
Site:	Eeyore Fed Com 27 28 PML #4H	North Reference:	Grid
Well:	Eeyore Fed Com 27 28 PML #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,023.54	0.00	0.00	7,023.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 12.00°/100' Build									
7,025.00	0.18	269.71	7,025.00	0.00	0.00	0.00	12.00	12.00	0.00
7,050.00	3.18	269.71	7,049.99	0.00	-0.73	0.73	12.00	12.00	0.00
7,075.00	6.18	269.71	7,074.90	-0.01	-2.77	2.77	12.00	12.00	0.00
7,100.00	9.18	269.71	7,099.67	-0.03	-6.11	6.11	12.00	12.00	0.00
7,125.00	12.18	269.71	7,124.24	-0.05	-10.74	10.74	12.00	12.00	0.00
7,150.00	15.18	269.71	7,148.53	-0.08	-16.65	16.65	12.00	12.00	0.00
7,175.00	18.18	269.71	7,172.47	-0.12	-23.82	23.82	12.00	12.00	0.00
7,200.00	21.18	269.71	7,196.01	-0.16	-32.24	32.24	12.00	12.00	0.00
7,225.00	24.18	269.71	7,219.08	-0.21	-41.88	41.88	12.00	12.00	0.00
7,250.00	27.18	269.71	7,241.60	-0.27	-52.71	52.71	12.00	12.00	0.00
7,275.00	30.18	269.71	7,263.54	-0.33	-64.70	64.70	12.00	12.00	0.00
7,300.00	33.18	269.71	7,284.81	-0.40	-77.83	77.83	12.00	12.00	0.00
7,325.00	36.18	269.71	7,305.37	-0.47	-92.05	92.05	12.00	12.00	0.00
7,350.00	39.18	269.71	7,325.15	-0.55	-107.33	107.33	12.00	12.00	0.00
7,375.00	42.18	269.71	7,344.11	-0.63	-123.62	123.62	12.00	12.00	0.00
7,400.00	45.18	269.71	7,362.19	-0.72	-140.88	140.88	12.00	12.00	0.00
7,425.00	48.18	269.71	7,379.34	-0.81	-159.07	159.07	12.00	12.00	0.00
7,450.00	51.18	269.71	7,395.52	-0.91	-178.12	178.13	12.00	12.00	0.00
7,475.00	54.18	269.71	7,410.67	-1.01	-198.00	198.00	12.00	12.00	0.00
7,500.00	57.18	269.71	7,424.77	-1.11	-218.65	218.65	12.00	12.00	0.00
7,525.00	60.18	269.71	7,437.76	-1.22	-240.00	240.00	12.00	12.00	0.00
7,550.00	63.18	269.71	7,449.62	-1.33	-262.00	262.01	12.00	12.00	0.00
7,575.00	66.18	269.71	7,460.31	-1.45	-284.60	284.60	12.00	12.00	0.00
7,600.00	69.18	269.71	7,469.81	-1.56	-307.72	307.73	12.00	12.00	0.00
7,625.00	72.18	269.71	7,478.08	-1.68	-331.31	331.31	12.00	12.00	0.00
7,650.00	75.18	269.71	7,485.11	-1.81	-355.30	355.30	12.00	12.00	0.00
7,675.00	78.18	269.71	7,490.87	-1.93	-379.62	379.63	12.00	12.00	0.00
7,700.00	81.18	269.71	7,495.35	-2.06	-404.21	404.22	12.00	12.00	0.00
7,725.00	84.18	269.71	7,498.54	-2.18	-429.01	429.01	12.00	12.00	0.00
7,750.00	87.18	269.71	7,500.42	-2.31	-453.93	453.94	12.00	12.00	0.00
7,773.54	90.00	269.71	7,501.00	-2.43	-477.46	477.46	12.00	12.00	0.00
Begin 90.00° Lateral									
7,800.00	90.00	269.71	7,501.00	-2.56	-503.92	503.93	0.00	0.00	0.00
7,900.00	90.00	269.71	7,501.00	-3.07	-603.92	603.93	0.00	0.00	0.00

Strata Production Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Eeyore Fed Com 27 28 PML #4H
Company:	Strata Production Company	TVD Reference:	WELL @ 3388.00usft (Norton 2)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3388.00usft (Norton 2)
Site:	Eeyore Fed Com 27 28 PML #4H	North Reference:	Grid
Well:	Eeyore Fed Com 27 28 PML #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,000.00	90.00	269.71	7,501.00	-3.58	-703.92	703.93	0.00	0.00	0.00	
8,100.00	90.00	269.71	7,501.00	-4.09	-803.92	803.93	0.00	0.00	0.00	
8,200.00	90.00	269.71	7,501.00	-4.60	-903.92	903.93	0.00	0.00	0.00	
8,300.00	90.00	269.71	7,501.00	-5.10	-1,003.92	1,003.93	0.00	0.00	0.00	
8,400.00	90.00	269.71	7,501.00	-5.61	-1,103.92	1,103.93	0.00	0.00	0.00	
8,500.00	90.00	269.71	7,501.00	-6.12	-1,203.91	1,203.93	0.00	0.00	0.00	
8,600.00	90.00	269.71	7,501.00	-6.63	-1,303.91	1,303.93	0.00	0.00	0.00	
8,700.00	90.00	269.71	7,501.00	-7.14	-1,403.91	1,403.93	0.00	0.00	0.00	
8,800.00	90.00	269.71	7,501.00	-7.65	-1,503.91	1,503.93	0.00	0.00	0.00	
8,900.00	90.00	269.71	7,501.00	-8.15	-1,603.91	1,603.93	0.00	0.00	0.00	
9,000.00	90.00	269.71	7,501.00	-8.66	-1,703.91	1,703.93	0.00	0.00	0.00	
9,100.00	90.00	269.71	7,501.00	-9.17	-1,803.91	1,803.93	0.00	0.00	0.00	
9,200.00	90.00	269.71	7,501.00	-9.68	-1,903.91	1,903.93	0.00	0.00	0.00	
9,300.00	90.00	269.71	7,501.00	-10.19	-2,003.90	2,003.93	0.00	0.00	0.00	
9,400.00	90.00	269.71	7,501.00	-10.70	-2,103.90	2,103.93	0.00	0.00	0.00	
9,500.00	90.00	269.71	7,501.00	-11.20	-2,203.90	2,203.93	0.00	0.00	0.00	
9,600.00	90.00	269.71	7,501.00	-11.71	-2,303.90	2,303.93	0.00	0.00	0.00	
9,700.00	90.00	269.71	7,501.00	-12.22	-2,403.90	2,403.93	0.00	0.00	0.00	
9,800.00	90.00	269.71	7,501.00	-12.73	-2,503.90	2,503.93	0.00	0.00	0.00	
9,900.00	90.00	269.71	7,501.00	-13.24	-2,603.90	2,603.93	0.00	0.00	0.00	
10,000.00	90.00	269.71	7,501.00	-13.75	-2,703.89	2,703.93	0.00	0.00	0.00	
10,100.00	90.00	269.71	7,501.00	-14.26	-2,803.89	2,803.93	0.00	0.00	0.00	
10,200.00	90.00	269.71	7,501.00	-14.76	-2,903.89	2,903.93	0.00	0.00	0.00	
10,300.00	90.00	269.71	7,501.00	-15.27	-3,003.89	3,003.93	0.00	0.00	0.00	
10,400.00	90.00	269.71	7,501.00	-15.78	-3,103.89	3,103.93	0.00	0.00	0.00	
10,500.00	90.00	269.71	7,501.00	-16.29	-3,203.89	3,203.93	0.00	0.00	0.00	
10,600.00	90.00	269.71	7,501.00	-16.80	-3,303.89	3,303.93	0.00	0.00	0.00	
10,700.00	90.00	269.71	7,501.00	-17.31	-3,403.89	3,403.93	0.00	0.00	0.00	
10,800.00	90.00	269.71	7,501.00	-17.81	-3,503.88	3,503.93	0.00	0.00	0.00	
10,900.00	90.00	269.71	7,501.00	-18.32	-3,603.88	3,603.93	0.00	0.00	0.00	
11,000.00	90.00	269.71	7,501.00	-18.83	-3,703.88	3,703.93	0.00	0.00	0.00	
11,100.00	90.00	269.71	7,501.00	-19.34	-3,803.88	3,803.93	0.00	0.00	0.00	
11,200.00	90.00	269.71	7,501.00	-19.85	-3,903.88	3,903.93	0.00	0.00	0.00	
11,300.00	90.00	269.71	7,501.00	-20.36	-4,003.88	4,003.93	0.00	0.00	0.00	
11,400.00	90.00	269.71	7,501.00	-20.86	-4,103.88	4,103.93	0.00	0.00	0.00	
11,500.00	90.00	269.71	7,501.00	-21.37	-4,203.88	4,203.93	0.00	0.00	0.00	
11,600.00	90.00	269.71	7,501.00	-21.88	-4,303.87	4,303.93	0.00	0.00	0.00	
11,700.00	90.00	269.71	7,501.00	-22.39	-4,403.87	4,403.93	0.00	0.00	0.00	
11,800.00	90.00	269.71	7,501.00	-22.90	-4,503.87	4,503.93	0.00	0.00	0.00	
11,900.00	90.00	269.71	7,501.00	-23.41	-4,603.87	4,603.93	0.00	0.00	0.00	
12,000.00	90.00	269.71	7,501.00	-23.91	-4,703.87	4,703.93	0.00	0.00	0.00	
12,100.00	90.00	269.71	7,501.00	-24.42	-4,803.87	4,803.93	0.00	0.00	0.00	
12,200.00	90.00	269.71	7,501.00	-24.93	-4,903.87	4,903.93	0.00	0.00	0.00	
12,300.00	90.00	269.71	7,501.00	-25.44	-5,003.87	5,003.93	0.00	0.00	0.00	
12,400.00	90.00	269.71	7,501.00	-25.95	-5,103.86	5,103.93	0.00	0.00	0.00	
12,500.00	90.00	269.71	7,501.00	-26.46	-5,203.86	5,203.93	0.00	0.00	0.00	
12,600.00	90.00	269.71	7,501.00	-26.97	-5,303.86	5,303.93	0.00	0.00	0.00	
12,700.00	90.00	269.71	7,501.00	-27.47	-5,403.86	5,403.93	0.00	0.00	0.00	
12,800.00	90.00	269.71	7,501.00	-27.98	-5,503.86	5,503.93	0.00	0.00	0.00	
12,900.00	90.00	269.71	7,501.00	-28.49	-5,603.86	5,603.93	0.00	0.00	0.00	
13,000.00	90.00	269.71	7,501.00	-29.00	-5,703.86	5,703.93	0.00	0.00	0.00	
13,100.00	90.00	269.71	7,501.00	-29.51	-5,803.85	5,803.93	0.00	0.00	0.00	
13,200.00	90.00	269.71	7,501.00	-30.02	-5,903.85	5,903.93	0.00	0.00	0.00	
13,300.00	90.00	269.71	7,501.00	-30.52	-6,003.85	6,003.93	0.00	0.00	0.00	

Strata Production Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Eeyore Fed Com 27 28 PML #4H
Company:	Strata Production Company	TVD Reference:	WELL @ 3388.00usft (Norton 2)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3388.00usft (Norton 2)
Site:	Eeyore Fed Com 27 28 PML #4H	North Reference:	Grid
Well:	Eeyore Fed Com 27 28 PML #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.00	90.00	269.71	7,501.00	-31.03	-6,103.85	6,103.93	0.00	0.00	0.00
13,500.00	90.00	269.71	7,501.00	-31.54	-6,203.85	6,203.93	0.00	0.00	0.00
13,600.00	90.00	269.71	7,501.00	-32.05	-6,303.85	6,303.93	0.00	0.00	0.00
13,700.00	90.00	269.71	7,501.00	-32.56	-6,403.85	6,403.93	0.00	0.00	0.00
13,800.00	90.00	269.71	7,501.00	-33.07	-6,503.85	6,503.93	0.00	0.00	0.00
13,900.00	90.00	269.71	7,501.00	-33.57	-6,603.84	6,603.93	0.00	0.00	0.00
14,000.00	90.00	269.71	7,501.00	-34.08	-6,703.84	6,703.93	0.00	0.00	0.00
14,100.00	90.00	269.71	7,501.00	-34.59	-6,803.84	6,803.93	0.00	0.00	0.00
14,200.00	90.00	269.71	7,501.00	-35.10	-6,903.84	6,903.93	0.00	0.00	0.00
14,300.00	90.00	269.71	7,501.00	-35.61	-7,003.84	7,003.93	0.00	0.00	0.00
14,400.00	90.00	269.71	7,501.00	-36.12	-7,103.84	7,103.93	0.00	0.00	0.00
14,500.00	90.00	269.71	7,501.00	-36.63	-7,203.84	7,203.93	0.00	0.00	0.00
14,600.00	90.00	269.71	7,501.00	-37.13	-7,303.84	7,303.93	0.00	0.00	0.00
14,700.00	90.00	269.71	7,501.00	-37.64	-7,403.83	7,403.93	0.00	0.00	0.00
14,800.00	90.00	269.71	7,501.00	-38.15	-7,503.83	7,503.93	0.00	0.00	0.00
14,900.00	90.00	269.71	7,501.00	-38.66	-7,603.83	7,603.93	0.00	0.00	0.00
15,000.00	90.00	269.71	7,501.00	-39.17	-7,703.83	7,703.93	0.00	0.00	0.00
15,100.00	90.00	269.71	7,501.00	-39.68	-7,803.83	7,803.93	0.00	0.00	0.00
15,200.00	90.00	269.71	7,501.00	-40.18	-7,903.83	7,903.93	0.00	0.00	0.00
15,300.00	90.00	269.71	7,501.00	-40.69	-8,003.83	8,003.93	0.00	0.00	0.00
15,400.00	90.00	269.71	7,501.00	-41.20	-8,103.83	8,103.93	0.00	0.00	0.00
15,500.00	90.00	269.71	7,501.00	-41.71	-8,203.82	8,203.93	0.00	0.00	0.00
15,600.00	90.00	269.71	7,501.00	-42.22	-8,303.82	8,303.93	0.00	0.00	0.00
15,700.00	90.00	269.71	7,501.00	-42.73	-8,403.82	8,403.93	0.00	0.00	0.00
15,800.00	90.00	269.71	7,501.00	-43.23	-8,503.82	8,503.93	0.00	0.00	0.00
15,900.00	90.00	269.71	7,501.00	-43.74	-8,603.82	8,603.93	0.00	0.00	0.00
16,000.00	90.00	269.71	7,501.00	-44.25	-8,703.82	8,703.93	0.00	0.00	0.00
16,100.00	90.00	269.71	7,501.00	-44.76	-8,803.82	8,803.93	0.00	0.00	0.00
16,200.00	90.00	269.71	7,501.00	-45.27	-8,903.81	8,903.93	0.00	0.00	0.00
16,300.00	90.00	269.71	7,501.00	-45.78	-9,003.81	9,003.93	0.00	0.00	0.00
16,400.00	90.00	269.71	7,501.00	-46.28	-9,103.81	9,103.93	0.00	0.00	0.00
16,500.00	90.00	269.71	7,501.00	-46.79	-9,203.81	9,203.93	0.00	0.00	0.00
16,600.00	90.00	269.71	7,501.00	-47.30	-9,303.81	9,303.93	0.00	0.00	0.00
16,700.00	90.00	269.71	7,501.00	-47.81	-9,403.81	9,403.93	0.00	0.00	0.00
16,800.00	90.00	269.71	7,501.00	-48.32	-9,503.81	9,503.93	0.00	0.00	0.00
16,900.00	90.00	269.71	7,501.00	-48.83	-9,603.81	9,603.93	0.00	0.00	0.00
17,000.00	90.00	269.71	7,501.00	-49.34	-9,703.80	9,703.93	0.00	0.00	0.00
17,100.00	90.00	269.71	7,501.00	-49.84	-9,803.80	9,803.93	0.00	0.00	0.00
17,200.00	90.00	269.71	7,501.00	-50.35	-9,903.80	9,903.93	0.00	0.00	0.00
17,300.00	90.00	269.71	7,501.00	-50.86	-10,003.80	10,003.93	0.00	0.00	0.00
17,400.00	90.00	269.71	7,501.00	-51.37	-10,103.80	10,103.93	0.00	0.00	0.00
17,500.00	90.00	269.71	7,501.00	-51.88	-10,203.80	10,203.93	0.00	0.00	0.00
17,563.50	90.00	269.71	7,501.00	-52.20	-10,267.30	10,267.43	0.00	0.00	0.00
PBHL									

Strata Production Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Eeyore Fed Com 27 28 PML #4H
Company:	Strata Production Company	TVD Reference:	WELL @ 3388.00usft (Norton 2)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	WELL @ 3388.00usft (Norton 2)
Site:	Eeyore Fed Com 27 28 PML #4H	North Reference:	Grid
Well:	Eeyore Fed Com 27 28 PML #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL - Eeyore Fed C	0.00	0.00	7,501.00	-52.20	-10,267.30	462,139.00	676,950.80	32° 16' 11.038 N	103° 53' 40.440 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
7,023.54	7,023.54	0.00	0.00	KOP, 12.00°/100' Build
7,773.54	7,501.00	-2.43	-477.46	Begin 90.00° Lateral
17,563.50	7,501.00	-52.20	-10,267.30	PBHL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Strata Production Company
WELL NAME & NO.:	Eeyore Fed Com 27 28 PML 4H
LOCATION:	Sec 27-23S-30E-NMP
COUNTY:	Eddy County, New Mexico

COA

H₂S	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
Potash / WIPP	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P	<input type="radio"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input checked="" type="radio"/> Conventional	<input type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="radio"/> Primary Squeeze	<input type="radio"/> Cont. Squeeze	<input type="radio"/> EchoMeter	<input checked="" type="checkbox"/> DV Tool
Special Req	<input type="radio"/> Break Testing	<input type="radio"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="radio"/> Unit
Variance	<input type="radio"/> Flex Hose	<input type="radio"/> Casing Clearance	<input type="radio"/> Pilot Hole	<input type="radio"/> Capitan Reef
Variance	<input type="radio"/> Four-String	<input type="radio"/> Offline Cementing	<input checked="" type="checkbox"/> Fluid-Filled	<input type="radio"/> Open Annulus
<input type="checkbox"/> Batch APD / Sundry				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 441 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. ***Set depth adjusted per BLM geologist.***
 - 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 **24 hours in the Potash Area** or 500 pounds compressive strength, whichever

- is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

❖ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

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

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

C. PRESSURE CONTROL

1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi**.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated

date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV**
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.

- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 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 **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 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 **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Strata Production Company

Eeyore Fed Com 27 28 PML #4H

Sec 27-T23S-R30E

SHL: 400' FSL & 330' FEL of Sec 27

BHL: 400' FSL & 100' FWL of Sec 28

Eddy County, NM

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE 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:

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

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

- A. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the H₂S Drilling Operations Plan and the 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. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

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.

- A. Well Control Equipment:
 - All BOP and BOP equipment is shown in the attachments.
 - Flare line.
 - Choke manifold with a remotely operated choke as shown in Attachment #5.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include annular preventer, mud-gas separator, rotating head.
- B. Protective equipment for essential personnel:
 - Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- C. H₂S detection and monitoring equipment:
 - 2 - portable H₂S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.
- D. Visual warning systems:
 - Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate.
 - Wind Direction indicators as seen in the H₂S Well Site Diagram.

- E. Mud Program: The mud program has been designed to minimize the volume of H₂S circulated to the surface.
- F. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- G. Communication:
Company vehicles equipped with cellular telephone.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED*
- 2. HARD HATS REQUIRED*
- 3. SMOKING IN DESIGNATED AREAS ONLY*
- 4. BE WIND CONSCIOUS AT ALL TIMES*
- 5. CK WITH STRATA FOREMAN AT MAIN OFFICE*

STRATA PRODUCTION COMPANY

**575-622-1127 EXT 18
575-626-7909**

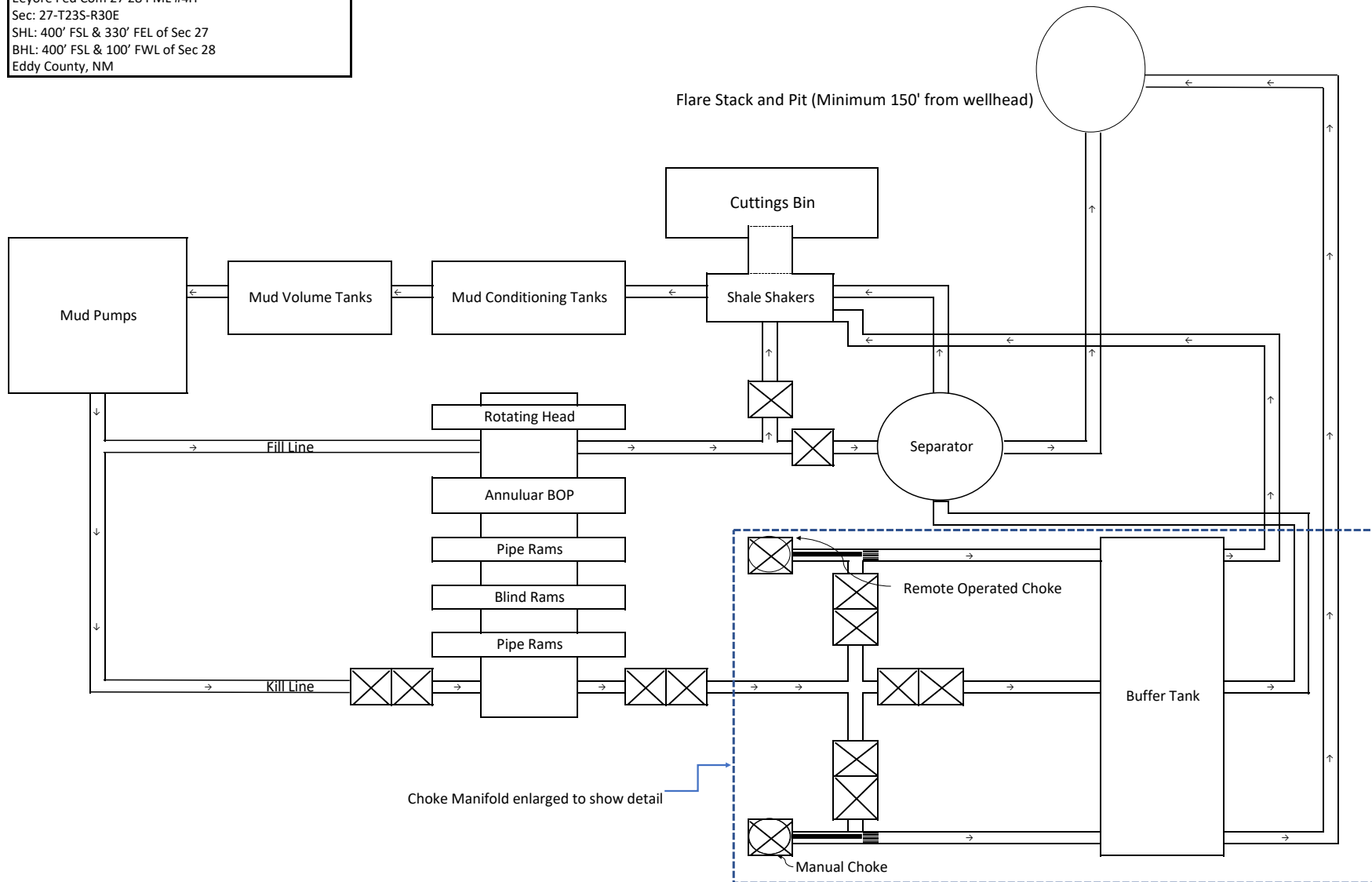
EMERGENCY NUMBERS**911 Must have Correct County & State & Directions to your location**

Eddy County Sheriff's Office	575-887-7551
Lea County Sherrif's Office (Lovington)	575-396-3611
New Mexico State Police (Roswell)	575-622-7200
Eastern NM Medical Center (Roswell)	575-622-8170
Lea Regional Hospital (Hobbs)	575-492-5000
Carlsbad Hospital	575-887-4100
Carlsbad Fire Department	575-885-3125
Ambulance Service	575-885-2111

BLM Carlsbad	575-234-5972
BLM Hobbs	575-393-3612
NMOCD Hobbs	575-393-6161
Mosaic Potash Carlsbad	575-887-2871

Strata Office	575-622-1127
Jerry Elgin	575-622-1127 x18
Cheyenne Scharf	307-360-3062
Rygel Russell	575-626-1479
Pilar Mendoza	575-626-8161
Mitch Krakauskas	575-622-1127 x23

STRATA PRODUCTION COMPANY
Eeyore Fed Com 27 28 PML #4H
Sec: 27-T23S-R30E
SHL: 400' FSL & 330' FEL of Sec 27
BHL: 400' FSL & 100' FWL of Sec 28
Eddy County, NM



STRATA PRODUCTION COMPANY

Eeyore Fed Com 27 28 PML #4H

Sec 27-T23S-R30E

SHL: 400' FSL & 330' FEL of Sec 27

BHL: 400' FSL & 100' FWL of Sec 28

Eddy County, NM

BLOWOUT PREVENTER EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

1. Bell Nipple.
2. Hydril bag type preventer.
3. Ram type pressure operated blowout preventer with blind rams.
4. Flanged spool with one 3" and one 2" (minimum) outlet.
5. 2" (minimum) flanged plug or gate valve.
6. 2"x 2"x 2" (minimum) flanged.
7. 3" gate valve.
8. Ram type pressure operated blowout preventer with pipe rams.
9. Flanged type casing head with one side outlet.
10. 2" threaded (or flanged) plug or gate valve. Flanged on 5000# WP, threaded on 3000# WP or less.
11. 3" flanged spacer spool.
12. 3"x 2" x 2"x 2" flanged cross.
13. 2" flanged plug or gate valve.
14. 2" flanged adjustable choke.
15. 2" threaded flange.
16. 2" XXH Nipple.
17. 2" forged steel 90 Ell.
18. Cameron (or equal) threaded pressure gauge.
19. Threaded flange.
20. 2" flanged tee.
21. 2" flanged plug or gate valve.
22. 2 ½" pipe, 300' to pit, anchored.
23. 2 ½" SE valve.
24. 2 ½" line to steel pit or separator.

NOTES:

- 1). Items 3, 4, and 8 may be replaced with double ram type preventer with side outlets between the rams.
- 2). The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.
- 3). Kill line is for emergency use only. This connection shall not be used for filling.
- 4). Replacement pipe rams and blind rams shall always be on location.
- 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- 6). Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.

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 260684

CONDITIONS

Operator: STRATA PRODUCTION CO P.O. Box 1030 Roswell, NM 882021030	OGRID: 21712
	Action Number: 260684
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/11/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/11/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/11/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/11/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/11/2023
ward.rikala	Strata is currently not in compliance with Rule 5.9. This well can not be produced until operator is in compliance.	9/11/2023
ward.rikala	This well can not be produced until the name of the well is changed per NM OCD naming convention.	9/11/2023