

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		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-55372
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)

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> 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). | <ul style="list-style-type: none"> 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)

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

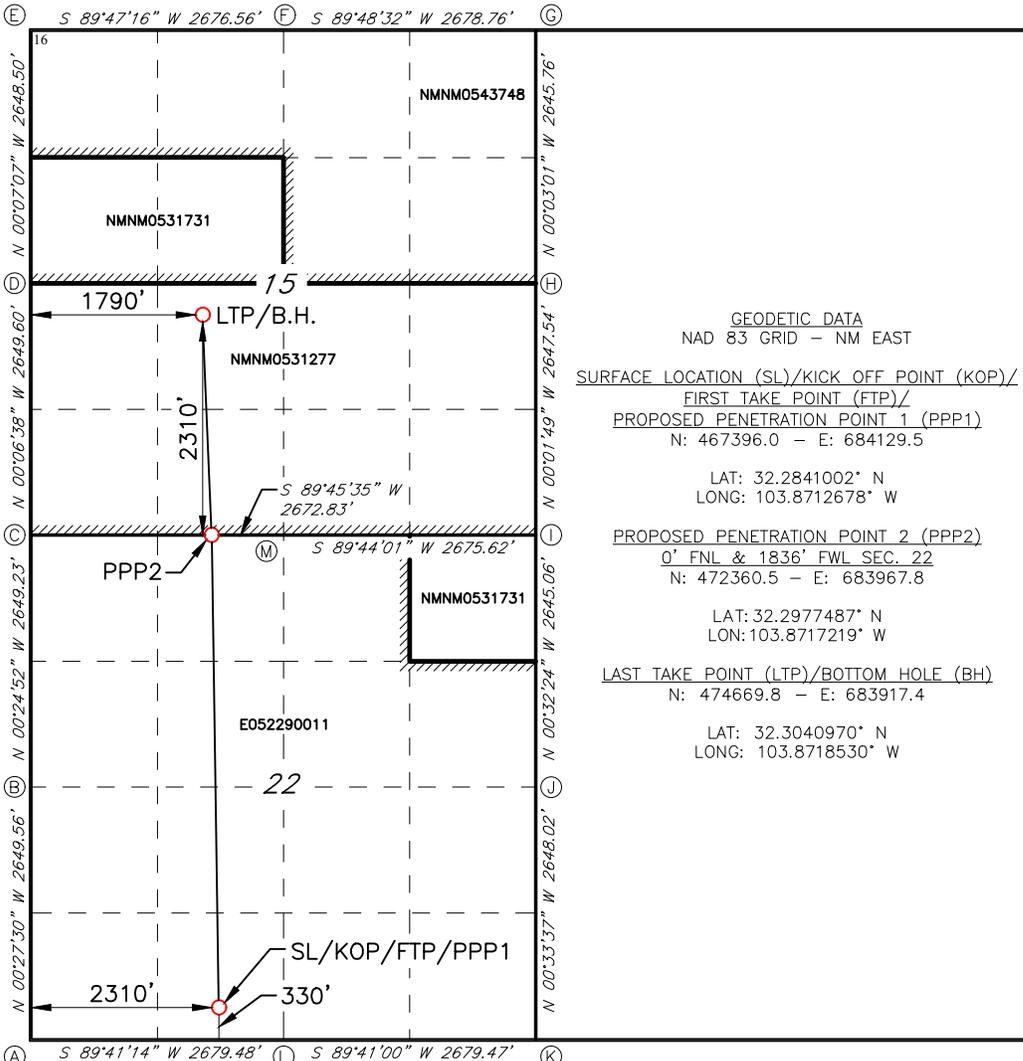
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-55372		² Pool Code 24750		³ Pool Name FORTY NINER RIDGE DELAWARE					
⁴ Property Code 28510		⁵ Property Name FORTY NINER RIDGE UNIT						⁶ Well Number 34H	
⁷ OGRID NO. 21712		⁸ Operator Name STRATA PRODUCTION COMPANY						⁹ Elevation 3269'	
¹⁰ Surface Location									
UL or lot no. N	Section 22	Township 23S	Range 30E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet From the 1960	East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. K	Section 15	Township 23S	Range 30E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 1790	East/West line WEST	County EDDY
¹² Dedicated Acres 240		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.



17 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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Jerry Elgin* Date: **08/21/2023**
Printed Name: **Jerry Elgin, VP of Operations**
E-mail Address: **jelgin@stratanm.com**

18 SURVEYOR 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.

Date of Survey: **07/11/2023**
Signature and Seal of Professional Surveyor: *DALE E. BELL*
Certificate Number: **14400** (Seal: DALE E. BELL, NEW MEXICO, 14400, PROFESSIONAL SURVEYOR)

Job No: LS23020169

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

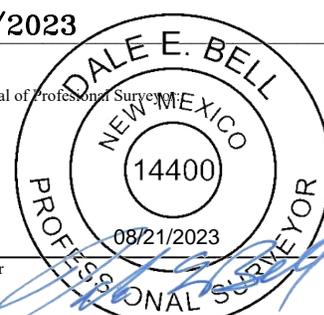
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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4 Property Code		5 Property Name FORTY NINER RIDGE UNIT					6 Well Number 34H		
7 OGRID NO. 21712		8 Operator Name STRATA PRODUCTION COMPANY					9 Elevation 3269'		
10 Surface Location									
UL or lot no. N	Section 22	Township 23S	Range 30E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet From the 1960	East/West line WEST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. K	Section 15	Township 23S	Range 30E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 1790	East/West line WEST	County EDDY
12 Dedicated Acres 240	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 style="text-align: center;">CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1942" N: 467055.4 - E: 682172.6</p> <p>B: FOUND BRASS CAP "1942" N: 469704.3 - E: 682151.4</p> <p>C: FOUND BRASS CAP "1942" N: 472352.8 - E: 682132.3</p> <p>D: FOUND BRASS CAP "1942" N: 475001.9 - E: 682127.2</p> <p>E: FOUND BRASS CAP "1942" N: 477649.8 - E: 682121.7</p> <p>F: FOUND BRASS CAP "1942" N: 477659.7 - E: 684797.6</p> <p>G: FOUND BRASS CAP "1942" N: 477668.6 - E: 687475.8</p> <p>H: FOUND BRASS CAP "1942" N: 475023.4 - E: 687478.1</p> <p>I: FOUND BRASS CAP "1942" N: 472376.5 - E: 687479.5</p> <p>J: FOUND BRASS CAP "1942" N: 469732.1 - E: 687504.4</p> <p>K: FOUND BRASS CAP "1942" N: 467084.8 - E: 687530.3</p> <p>L: FOUND BRASS CAP "1942" N: 467070.0 - E: 684851.5</p> <p>M: FOUND BRASS CAP "1942" N: 472364.0 - E: 684804.5</p>	<p>17 OPERATOR CERTIFICATION</p> <p><i>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.</i></p> <p style="text-align: right;">  08/21/2023 Signature Date Jerry Elgin, VP of Operations Printed Name jelgin@stratanm.com E-mail Address </p>
	<p>18 SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p style="text-align: right;"> 07/11/2023 Date of Survey Signature and Seal of Professional Surveyor  14400 Certificate Number </p>

Job No: LS23020169

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 / 25 / 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
Forty Niner Ridge Unit		Sec 22-T23S-R30E	330' FSL &	800	1,200	2,200
#34H			1,960' FWL			

IV. Central Delivery Point Name: Common Tank Battery 3 [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
Forty Niner Ridge Unit		11/17/2024	12/17/2024	12/22/2024	12/27/2045	1/2/2025
#34H						

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
Forty Niner Ridge Unit #34H		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	1/2/2025	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:	08/25/2023
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:

**Strata Production Company
Natural Gas Management Plan**

**Forty Niner Ridge Unit #34
Section 22-T23S-R30E
Eddy County, New Mexico**

Attachment to NMOCD Form NGMP

VI. Separation Equipment

Well site separation equipment consists of a 4' X 15' X 500 psi WP 2 phase separator at the well site in Section 30-T23S-R31E to separate the gas from the oil and water and a 6' X 20' X 250 psi 3 phase separator that separates any residual gas, water, and oil. The gas is routed to a gas gathering line that connects to 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 3 in the NENE of Section 22-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 system 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.

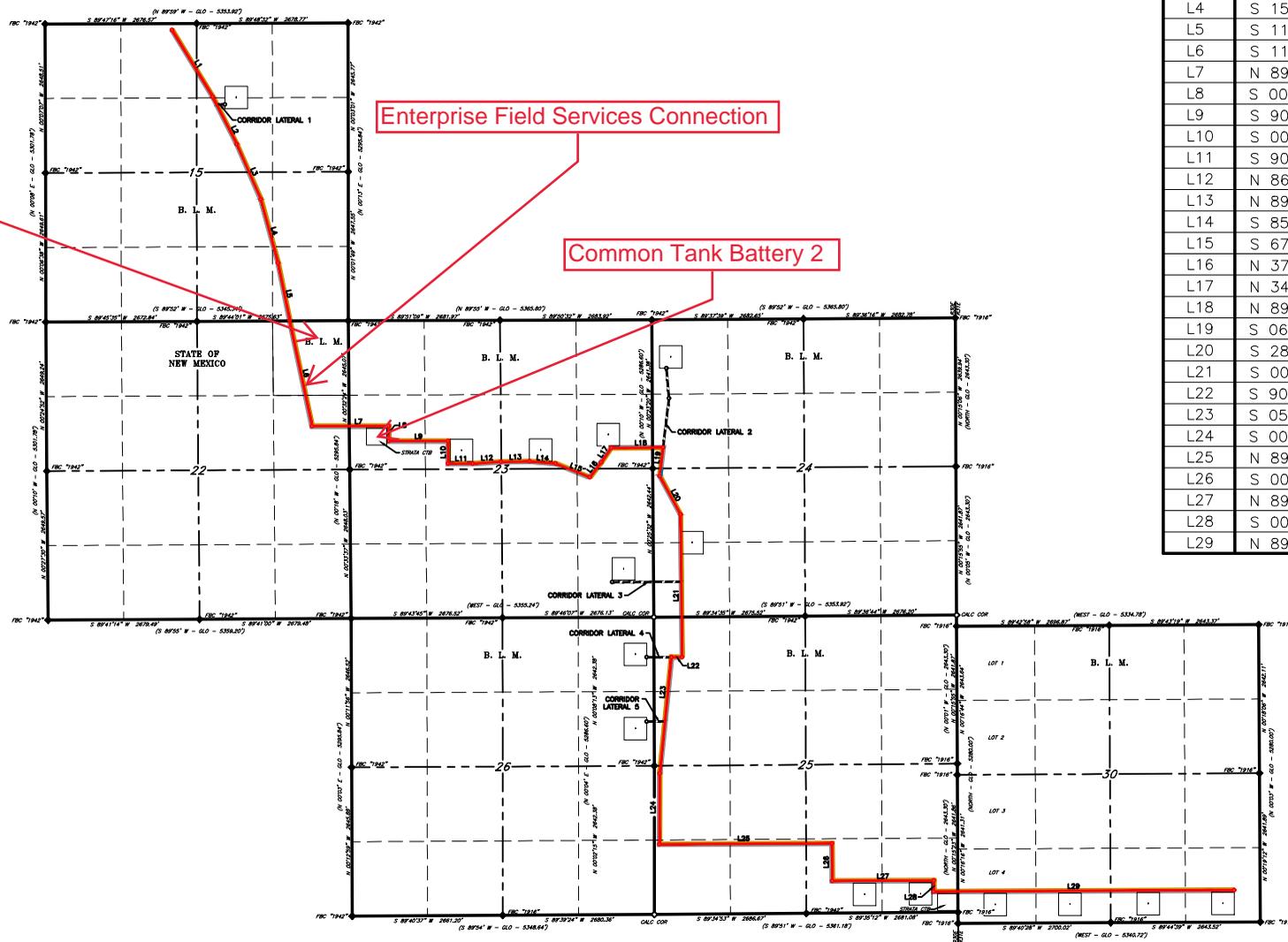
STRATA PRODUCTION COMPANY
PROPOSED MAIN CORRIDOR FOR THE STRATA WELL LOCATIONS
SECTIONS 15, 22, 23, 24, 26 & 25, T23S, R30E, &
SECTION 30, T23S, R31E
N. M. P. M., EDDY CO., NEW MEXICO

LINE TABLE		
LINE	BEARING	LENGTH
L1	S 31°10'54" E	1,393.05'
L2	S 26°50'18" E	940.07'
L3	S 23°25'43" E	1,068.15'
L4	S 15°04'07" E	1,172.60'
L5	S 11°23'46" E	1,045.11'
L6	S 11°50'29" E	1,917.56'
L7	N 89°59'28" E	1,355.67'
L8	S 00°03'54" W	266.11'
L9	S 90°00'00" E	1,052.12'
L10	S 00°00'00" E	400.00'
L11	S 90°00'00" E	435.01'
L12	N 86°35'57" E	501.54'
L13	N 89°05'05" E	505.83'
L14	S 85°11'20" E	461.01'
L15	S 67°54'39" E	648.93'
L16	N 37°19'53" E	334.18'
L17	N 34°24'00" E	314.74'
L18	N 89°48'35" E	916.97'
L19	S 06°40'55" W	505.50'
L20	S 28°02'19" E	779.64'
L21	S 00°40'33" E	2,533.37'
L22	S 90°00'00" W	188.59'
L23	S 05°46'06" W	2,078.49'
L24	S 00°18'48" W	1,259.84'
L25	N 89°42'50" E	3,053.28'
L26	S 00°16'48" E	664.28'
L27	N 89°57'10" E	1,796.25'
L28	S 00°39'28" E	195.02'
L29	N 89°42'06" E	5,307.92'

NE FNRU CTB 3

Enterprise Field Services Connection

Common Tank Battery 2



SCALE: 1" = 3000'
 0 1500' 3000'

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

LEGEND

- () RECORD DATA - GLO
- ◇ CALCULATED CORNER
- ◆ FOUND MONUMENT AS NOTED
- PROPOSED MAIN CORRIDOR
- ACCESS ROAD
- ELECTRIC LINE

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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

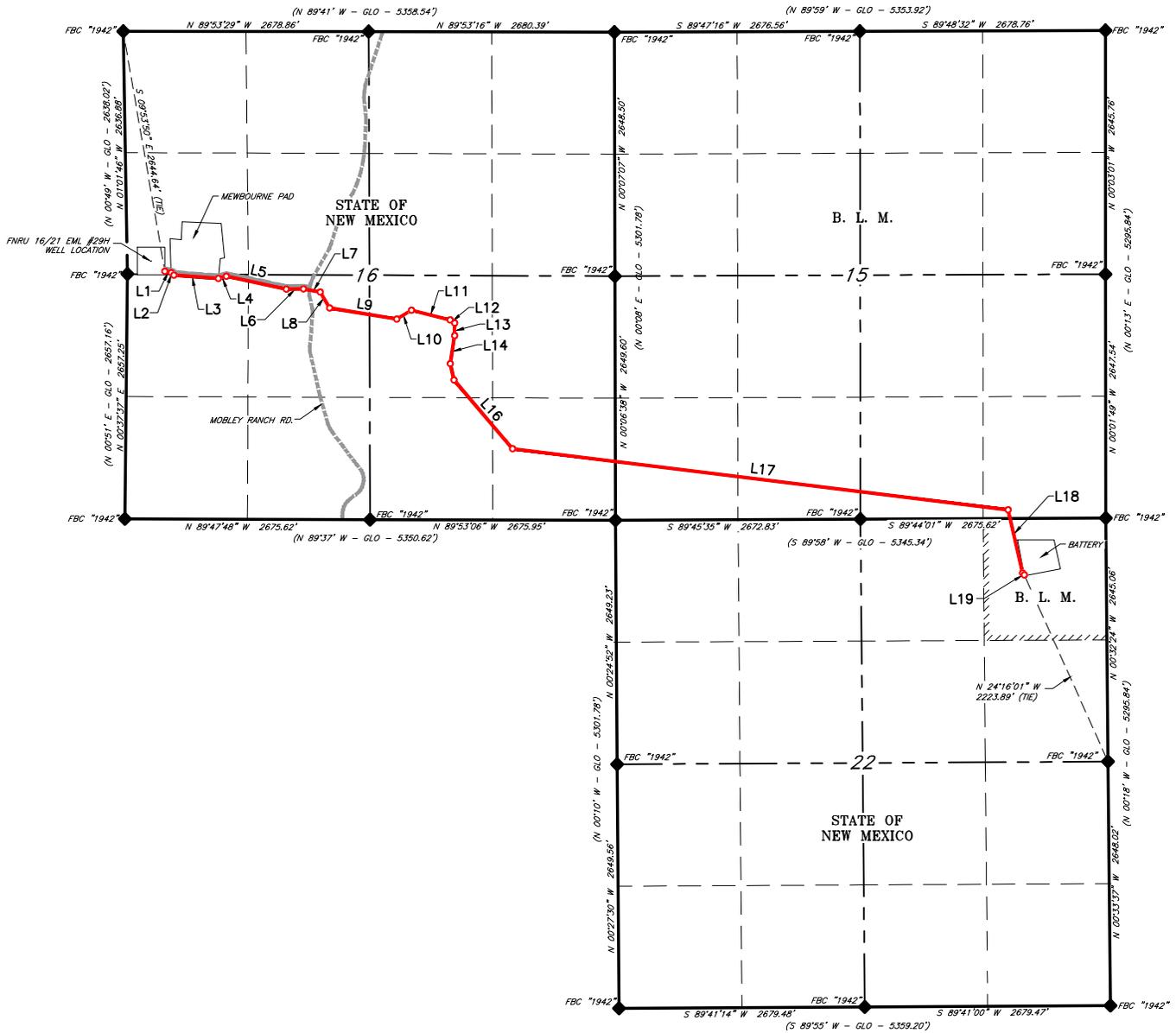
JOB NO.: LS19050633
 DWG. NO.: 19050633-1

STRATA PRODUCTION COMPANY

FNRU 16-21 EML #29H PIPELINE & ELECTRIC LINE

SECTIONS 15, 16 & 22, T23S, R30E

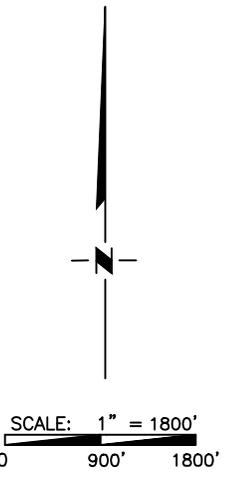
N. M. P. M., EDDY CO., NEW MEXICO



LINE TABLE		
LINE	BEARING	LENGTH
L1	S 76°53'01" E	71.90'
L2	S 48°02'23" E	38.69'
L3	S 85°40'26" E	487.02'
L4	N 74°43'52" E	90.73'
L5	S 77°58'08" E	667.50'
L6	N 89°09'42" E	187.18'
L7	S 79°18'09" E	186.64'
L8	S 30°23'57" E	200.40'
L9	S 80°39'54" E	743.03'
L10	N 59°03'16" E	187.49'
L11	S 75°56'28" E	434.59'
L12	S 55°28'08" E	59.57'
L13	S 00°01'28" E	136.55'
L14	S 08°58'43" W	308.42'
L15	S 12°58'10" E	182.16'
L16	S 40°32'54" E	982.04'
L17	S 83°00'39" E	5,446.36'
L18	S 12°50'37" E	704.53'
L19	S 44°05'06" E	28.02'



- LEGEND**
- () RECORD DATA - GLO
 - ◆ FOUND MONUMENT AS NOTED
 - PROPOSED UTILITY EASEMENT
 - EXISTING ACCESS ROAD
 - MOBLEY RANCH RD.



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

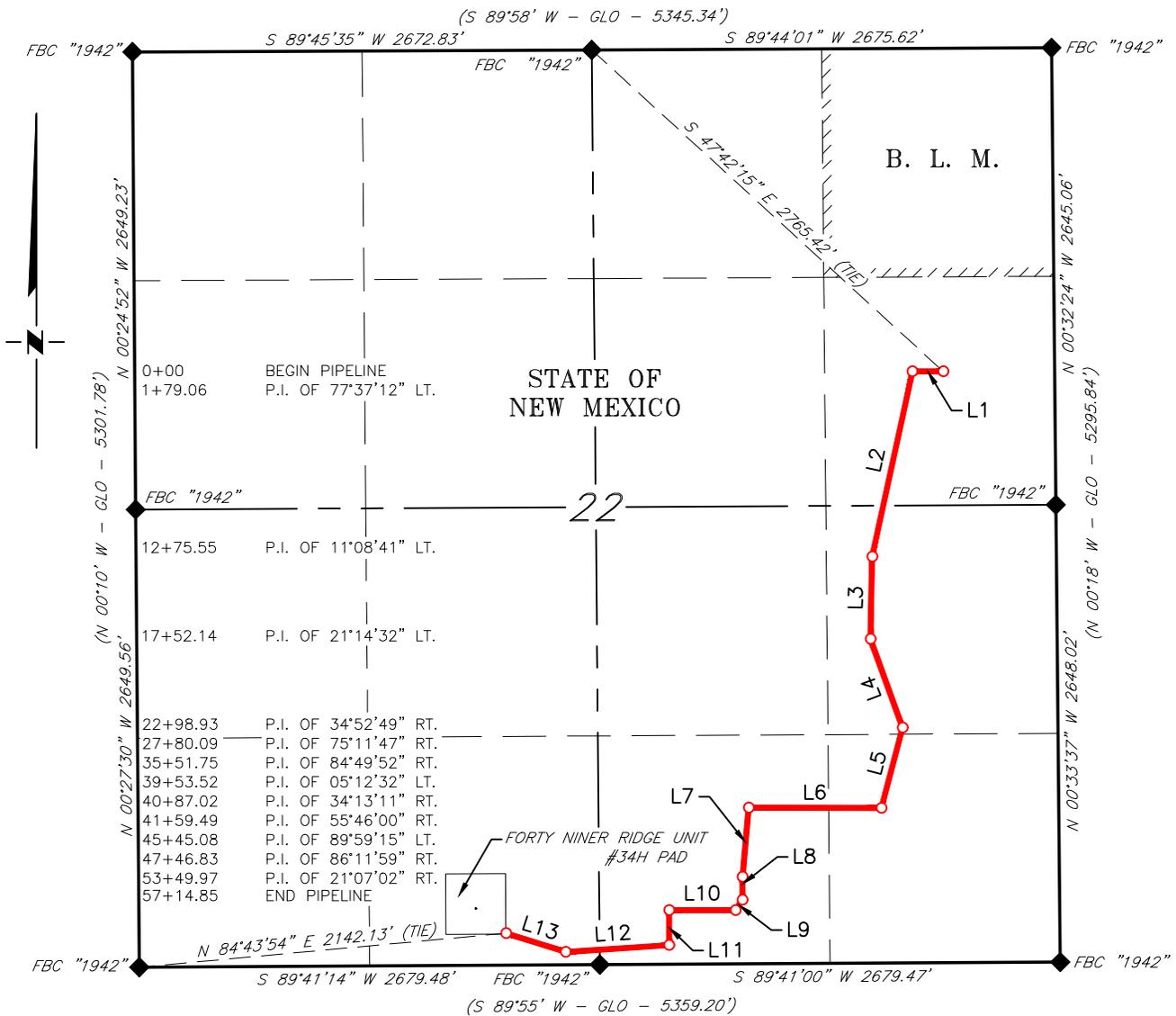
1	REROUTE	3/23/23			
NO.	REVISION	DATE			
JOB NO.: LS23030268R					
DWG. NO.: 23030268R-1					



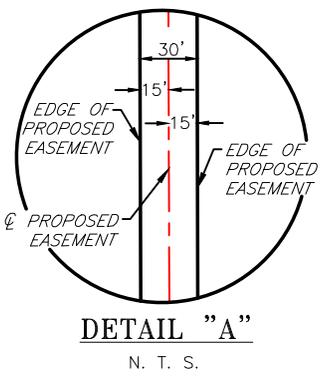
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1800'
DATE: 03/08/2023
SURVEYED BY: JF/GA
DRAWN BY: LM
APPROVED BY: DEB
SHEET: 1 OF 5

**STRATA PRODUCTION COMPANY
FLOWLINE FOR THE FORTY NINER RIDGE UNIT
#34H WELL LOCATION
SECTION 22, T23S, R30E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



LINE TABLE		
LINE	BEARING	LENGTH
L1	S 89°58'59" W	179.06'
L2	S 12°21'47" W	1,096.49'
L3	S 01°13'06" W	476.59'
L4	S 20°01'26" E	546.79'
L5	S 14°51'23" W	481.16'
L6	N 89°56'50" W	771.66'
L7	S 05°13'18" W	401.77'
L8	S 00°00'46" W	133.50'
L9	S 34°13'58" W	72.47'
L10	S 89°59'58" W	385.59'
L11	S 00°00'43" W	201.75'
L12	S 86°12'42" W	603.14'
L13	N 72°40'16" W	364.88'



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



NO.	REVISION	DATE

JOB NO.: LS23070597
DWG. NO.: 23070597-1

RRC
ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 07/19/2023
SURVEYED BY: JF/MP/HA
DRAWN BY: AR
APPROVED BY: DEB
SHEET: 1 OF 2

**STRATA PRODUCTION COMPANY
FLOWLINE FOR THE FORTY NINER RIDGE UNIT
#34H WELL LOCATION
SECTION 22, T23S, R30E
N. M. P. M., EDDY COUNTY, NEW MEXICO**

DESCRIPTION

A strip of land 30 feet wide, being 5,714.85 feet or 346.355 rods in length, lying in Section 22, Township 23 South, Range 30 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across State of New Mexico land:

BEGINNING at Engr. Sta. 0+00, a point in the Northeast quarter of Section 22, which bears, S 47°42'15" E, 2,765.42 feet from a brass cap, stamped "1942", found for the North quarter corner of Section 22;

Thence S 89°58'59" W, 179.06 feet, to Engr. Sta. 1+79.06, a P. I. of 77°37'12" left;

Thence S 12°21'47" W, 1,096.49 feet, to Engr. Sta. 12+75.55, a P. I. of 11°08'41" left;

Thence S 01°13'06" W, 476.59 feet, to Engr. Sta. 17+52.14, a P. I. of 21°14'32" left;

Thence S 20°01'26" E, 546.79 feet, to Engr. Sta. 22+98.93, a P. I. of 34°52'49" right;

Thence S 14°51'23" W, 481.16 feet, to Engr. Sta. 27+80.09, a P. I. of 75°11'47" right;

Thence N 89°56'50" W, 771.66 feet, to Engr. Sta. 35+51.75, a P. I. of 84°49'52" right;

Thence S 05°13'18" W, 401.77 feet, to Engr. Sta. 39+53.52, a P. I. of 05°12'32" left;

Thence S 00°00'46" W, 133.50 feet, to Engr. Sta. 40+87.02, a P. I. of 34°13'11" right;

Thence S 34°31'58" W, 72.47 feet, to Engr. Sta. 41+59.49, a P. I. of 55°46'00" right;

Thence S 89°59'58" W, 385.59 feet, to Engr. Sta. 45+45.08, a P. I. of 89°59'15" left;

Thence S 00°00'43" W, 201.75 feet, to Engr. Sta. 47+46.83, a P. I. of 86°11'59" right;

Thence S 86°12'42" W, 603.14 feet, to Engr. Sta. 53+49.97, a P. I. of 21°07'02" right;

Thence N 72°40'16" W, 364.88 feet, to Engr. Sta. 57+14.85, the End of Survey, a point in the Southwest quarter of Section 22, which bears, N 84°43'54" E, 2,142.13 feet from a brass cap, stamped "1942", found for the Southwest corner of Section 22.

Said strip of land contains 3.936 acres, more or less, and is allocated by forties as follows:

SE 1/4 NE 1/4	59.040 Rods	0.671 Acres
NE 1/4 SE 1/4	82.736 Rods	0.940 Acres
SE 1/4 SE 1/4	45.328 Rods	0.515 Acres
SW 1/4 SE 1/4	125.155 Rods	1.422 Acres
SE 1/4 SW 1/4	34.096 Rods	0.388 Acres



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NO.	REVISION	DATE
JOB NO.:	LS23070597	
DWG. NO.:	23070597-2	



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

SCALE: 1" = 1000'
DATE: 07/19/2023
SURVEYED BY: JF/MP/HA
DRAWN BY: AR
APPROVED BY: DEB
SHEET: 2 OF 2



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

Drilling Plan Data Report

07/25/2024

APD ID: 10400094008

Submission Date: 10/20/2023

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 34H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
12130154	RUSTLER	3269	140	140	SALT	NONE	N
12130155	SALADO	2813	456	456	SALT	NONE	N
12130156	BASE OF SALT	-384	3653	3653	SALT	NONE	N
12130157	LAMAR	-445	3714	3714	LIMESTONE, SHALE	NATURAL GAS, OIL	Y
12130158	BELL CANYON	-499	3768	3768	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12130159	CHERRY CANYON	-1381	4650	4650	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12130160	BRUSHY CANYON	-2679	5948	5948	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12130161	BONE SPRING	-4333	7602	7602	LIMESTONE, SANDSTONE, SILTSTONE	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:

Forty_Niner_Ridge_Unit__34H_Choke_Diagram_20230822115155.pdf

BOP Diagram Attachment:

Forty_Niner_Ridge_Unit__34H_BOPE_Description_20230822115203.pdf

Forty_Niner_Ridge_Unit__34H_BOPE_20230822115203.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 34H

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	3269	2819	450	H-40	48	ST&C	3.95	7.39	DRY	14.9	DRY	25
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3800	0	3800	3269	-531	3800	N-80	43.5	LT&C	1.56	2	DRY	2.73	DRY	4.66
3	PRODUCTION	8.5	7.0	NEW	API	Y	0	6950	0	6950	3269	-3681	6950	HCP-110	29	LT&C	2.91	3.1	DRY	2.25	DRY	2.63
4	PRODUCTION	8.5	5.5	NEW	API	Y	6950	14567	6900	7444	-3631	-4175	7617	HCP-110	20	OTHER - DWC-IC	3.44	3.19	DRY	4.21	DRY	4.38

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__34H_Casing_Worksheet_20231020135514.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 34H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__34H_Casing_Worksheet_20231020135541.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Forty_Niner_Ridge_Unit__34H_Tapered_String_20231020135610.pdf

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__34H_Casing_Worksheet_20231020135631.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Forty_Niner_Ridge_Unit__34H_Tapered_String_20231020135707.pdf

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__34H_Casing_Worksheet_20231020135727.pdf

Section 4 - Cement

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 34H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	200	2.51	11	505	100	Class H	None
PRODUCTION	Tail		5200	1465 7	1715	1.43	13.2	2459	25	Class H	Salt, gel, extender, LCM
SURFACE	Lead		0	450	469	1.33	14.8	625	100	Class C	CaCl, LCM

INTERMEDIATE	Lead		0	3300	813	1.91	12.9	1550	50	Class C	Salt, gel, extender, LCM
INTERMEDIATE	Tail		3300	3800	194	1.33	14.8	258	65	Class C	Salt, LCM
PRODUCTION	Lead	5200	2800	5200	238	1.34	14.8	328	50	Class C	None

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 a rig floor, remote kill line, and mud gas separator.

Describe the mud monitoring system utilized: Pason pit level monitors, hourly weight check, viscosity, gel strength and pH, and 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.

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 34H

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
450	3800	SALT SATURATED	10	10.5			10				Drill with brine water with LCM and gel sweeps.
3800	1456 7	WATER-BASED MUD	8.5	9.5			10				Drill with water based mud using sliders and gel sweeps in the lateral.

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, COMPENSATED DENSLOG, DUAL LATERAL LOG/MICRO-SPHERICALLY FOCUSED, CEMENT BOND LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG, GAMMA RAY LOG,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3360

Anticipated Surface Pressure: 1717

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

Forty_Niner_Ridge_Unit__34H_H2S_Plan_20230927105820.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 34H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

FNRU_34H_Preliminary_Directional_Plan_20230927105731.pdf

Forty_Niner_Ridge_Unit_34H_Permitting_WBD_20231020152042.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

NGMP_Form_Forty_Niner_Ridge_Unit_20231020152225.pdf

Other Variance attachment:

CONFIDENTIAL

SHL: 330' FSL and 1,960' FWL of Section 22-T23S-R30E
BHL: 2,310' FSL and 1,790' FWL of Section 15-T23S-R30E
Eddy County, NM

#	MD (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	DX (ft)	DY (ft)	X (ft)	Y (ft)	Subsea (ft)	Segment Length	Segment Inclination	Offset	Original Azimuth (deg)	Original DX (ft)	Original DY (ft)
	0	0	0	0	0	0	684129.5	467396	3269	0	0	0			
	99.14	0	0	99.14	0	0	684129.5	467396	3169.86	99.14	0	0			
	198.28	0	0	198.28	0	0	684129.5	467396	3070.72	99.14	0	0			
	297.42	0	0	297.42	0	0	684129.5	467396	2971.58	99.14	0	0			
	396.56	0	0	396.56	0	0	684129.5	467396	2872.44	99.14	0	0			
	495.7	0	0	495.7	0	0	684129.5	467396	2773.3	99.14	0	0			
	594.85	0	0	594.85	0	0	684129.5	467396	2674.16	99.14	0	0			
	693.99	0	0	693.99	0	0	684129.5	467396	2575.01	99.14	0	0			
	793.13	0	0	793.13	0	0	684129.5	467396	2475.87	99.14	0	0			
	892.27	0	0	892.27	0	0	684129.5	467396	2376.73	99.14	0	0			
	991.41	0	0	991.41	0	0	684129.5	467396	2277.59	99.14	0	0			
	1090.55	0	0	1090.55	0	0	684129.5	467396	2178.45	99.14	0	0			
	1189.69	0	0	1189.69	0	0	684129.5	467396	2079.31	99.14	0	0			
	1288.83	0	0	1288.83	0	0	684129.5	467396	1980.17	99.14	0	0			
	1387.97	0	0	1387.97	0	0	684129.5	467396	1881.03	99.14	0	0			
	1487.11	0	0	1487.11	0	0	684129.5	467396	1781.89	99.14	0	0			
	1586.25	0	0	1586.25	0	0	684129.5	467396	1682.75	99.14	0	0			
	1685.39	0	0	1685.39	0	0	684129.5	467396	1583.61	99.14	0	0			
	1784.54	0	0	1784.54	0	0	684129.5	467396	1484.47	99.14	0	0			
	1883.68	0	0	1883.68	0	0	684129.5	467396	1385.32	99.14	0	0			
	1982.82	0	0	1982.82	0	0	684129.5	467396	1286.18	99.14	0	0			
	2081.96	0	0	2081.96	0	0	684129.5	467396	1187.04	99.14	0	0			
	2181.1	0	0	2181.1	0	0	684129.5	467396	1087.9	99.14	0	0			
	2280.24	0	0	2280.24	0	0	684129.5	467396	988.76	99.14	0	0			
	2379.38	0	0	2379.38	0	0	684129.5	467396	889.62	99.14	0	0			
	2478.52	0	0	2478.52	0	0	684129.5	467396	790.48	99.14	0	0			
	2577.66	0	0	2577.66	0	0	684129.5	467396	691.34	99.14	0	0			
	2676.8	0	0	2676.8	0	0	684129.5	467396	592.2	99.14	0	0			
	2775.94	0	0	2775.94	0	0	684129.5	467396	493.06	99.14	0	0			
	2875.08	0	0	2875.08	0	0	684129.5	467396	393.92	99.14	0	0			
	2974.23	0	0	2974.23	0	0	684129.5	467396	294.77	99.14	0	0			
	3073.37	0	0	3073.37	0	0	684129.5	467396	195.63	99.14	0	0			
	3172.51	0	0	3172.51	0	0	684129.5	467396	96.49	99.14	0	0			
	3271.65	0	0	3271.65	0	0	684129.5	467396	-2.65	99.14	0	0			
	3370.79	0	0	3370.79	0	0	684129.5	467396	-101.79	99.14	0	0			
	3469.93	0	0	3469.93	0	0	684129.5	467396	-200.93	99.14	0	0			
	3569.07	0	0	3569.07	0	0	684129.5	467396	-300.07	99.14	0	0			
	3668.21	0	0	3668.21	0	0	684129.5	467396	-399.21	99.14	0	0			
	3767.35	0	0	3767.35	0	0	684129.5	467396	-498.35	99.14	0	0			
	3866.49	0	0	3866.49	0	0	684129.5	467396	-597.49	99.14	0	0			
	3965.63	0	0	3965.63	0	0	684129.5	467396	-696.63	99.14	0	0			
	4064.78	0	0	4064.78	0	0	684129.5	467396	-795.77	99.14	0	0			
	4163.92	0	0	4163.92	0	0	684129.5	467396	-894.92	99.14	0	0			
	4263.06	0	0	4263.06	0	0	684129.5	467396	-994.06	99.14	0	0			
	4362.2	0	0	4362.2	0	0	684129.5	467396	-1093.2	99.14	0	0			
	4461.34	0	0	4461.34	0	0	684129.5	467396	-1192.34	99.14	0	0			
	4560.48	0	0	4560.48	0	0	684129.5	467396	-1291.48	99.14	0	0			
	4659.62	0	0	4659.62	0	0	684129.5	467396	-1390.62	99.14	0	0			
	4758.76	0	0	4758.76	0	0	684129.5	467396	-1489.76	99.14	0	0			
	4857.9	0	0	4857.9	0	0	684129.5	467396	-1588.9	99.14	0	0			
	4957.04	0	0	4957.04	0	0	684129.5	467396	-1688.04	99.14	0	0			
	5056.18	0	0	5056.18	0	0	684129.5	467396	-1787.18	99.14	0	0			
	5155.32	0	0	5155.32	0	0	684129.5	467396	-1886.32	99.14	0	0			
	5254.47	0	0	5254.47	0	0	684129.5	467396	-1985.47	99.14	0	0			
	5353.61	0	0	5353.61	0	0	684129.5	467396	-2084.61	99.14	0	0			
	5452.75	0	0	5452.75	0	0	684129.5	467396	-2183.75	99.14	0	0			
	5551.89	0	0	5551.89	0	0	684129.5	467396	-2282.89	99.14	0	0			
	5651.03	0	0	5651.03	0	0	684129.5	467396	-2382.03	99.14	0	0			
	5750.17	0	0	5750.17	0	0	684129.5	467396	-2481.17	99.14	0	0			
	5849.31	0	0	5849.31	0	0	684129.5	467396	-2580.31	99.14	0	0			
	5948.45	0	0	5948.45	0	0	684129.5	467396	-2679.45	99.14	0	0			
	6047.59	0	0	6047.59	0	0	684129.5	467396	-2778.59	99.14	0	0			
	6146.73	0	0	6146.73	0	0	684129.5	467396	-2877.73	99.14	0	0			
	6245.87	0	0	6245.87	0	0	684129.5	467396	-2976.87	99.14	0	0			
	6345.01	0	0	6345.01	0	0	684129.5	467396	-3076.01	99.14	0	0			
	6444.16	0	0	6444.16	0	0	684129.5	467396	-3175.16	99.14	0	0			
	6543.3	0	0	6543.3	0	0	684129.5	467396	-3274.3	99.14	0	0			
	6642.44	0	0	6642.44	0	0	684129.5	467396	-3373.44	99.14	0	0			

6741.58	0	0	6741.58	0	0	684129.5	467396	-3472.58	99.14	0	0
6840.72	0	0	6840.72	0	0	684129.5	467396	-3571.72	99.14	0	0
6939.86	0	0	6939.86	0	0	684129.5	467396	-3670.86	99.14	0	0
7039	0	0	7039	0	0	684129.5	467396	-3770	99.14	0	0
7073.17	4.84164	355.3503	7073.13	-0.12	1.44	684129.4	467397.4	-3804.13	34.17	2.42083	1.44
7105.53	9.58196	355.4188	7105.23	-0.44	5.49	684129.1	467401.5	-3836.23	32.36	7.21173	5.5
7139.37	14.50181	355.47	7138.31	-1	12.52	684128.5	467408.5	-3869.31	33.83	12.04189	12.56
7171.74	19.22808	355.5359	7169.28	-1.74	21.88	684127.8	467417.9	-3900.28	32.37	16.86501	21.95
7205.83	24.03383	355.5976	7200.96	-2.71	34.41	684126.8	467430.4	-3931.96	34.09	21.63095	34.51
7238.75	28.57354	355.6707	7230.46	-3.82	48.95	684125.7	467445	-3961.46	32.92	26.30358	49.1
7271.6	32.86488	355.7395	7258.7	-5.07	65.68	684124.4	467461.7	-3989.7	32.86	30.71911	65.88
7304.47	37.01155	355.82	7285.64	-6.46	84.45	684123	467480.5	-4016.64	32.87	34.93847	84.7
7338.41	41.02496	355.9013	7312	-8	105.75	684121.5	467501.8	-4043	33.94	39.01808	106.06
7371.44	44.77876	355.992	7336.19	-9.59	128.18	684119.9	467524.2	-4067.19	33.03	42.90187	128.54
7404.58	48.31469	356.0827	7358.98	-11.25	152.17	684118.3	467548.2	-4089.98	33.14	46.54657	152.59
7437.8	51.7441	356.1857	7380.32	-12.97	177.58	684116.5	467573.6	-4111.32	33.23	50.02951	178.05
7471.1	54.99497	356.2907	7400.18	-14.72	204.24	684114.8	467600.2	-4131.18	33.3	53.36978	204.76
7504.43	58.18267	356.4091	7418.53	-16.49	231.99	684113	467628	-4149.53	33.33	56.589	232.58
7536.73	61.14481	356.5281	7434.84	-18.2	259.82	684111.3	467655.8	-4165.84	32.3	59.66354	260.45
7569.97	64.18748	356.6652	7450.1	-19.96	289.29	684109.5	467685.3	-4181.1	33.24	62.66596	289.98
7603.07	67.14335	356.8102	7463.74	-21.67	319.4	684107.8	467715.4	-4194.74	33.1	65.66545	320.13
7636.97	70.22668	356.977	7476.06	-23.38	350.93	684106.1	467746.9	-4207.06	33.9	68.68501	351.71
7669.59	73.18758	357.1516	7486.3	-24.97	381.86	684104.5	467777.9	-4217.3	32.62	71.70683	382.67
7702.84	76.33315	357.3521	7495.04	-26.51	413.9	684103	467809.9	-4226.04	33.25	74.76029	414.75
7736.62	79.60648	357.579	7502.08	-27.97	446.89	684101.5	467842.9	-4233.08	33.77	77.97037	447.77
7769.84	83.05265	357.8351	7507.09	-29.28	479.71	684100.2	467875.7	-4238.09	33.23	81.32897	480.6
7802.46	86.61503	358.1211	7510.02	-30.43	512.17	684099.1	467908.2	-4241.02	32.61	84.83425	513.07
7835.3	90.5462	358.4573	7510.84	-31.41	544.98	684098.1	467941	-4241.84	32.84	88.58045	545.88
7944.19	90.54748	358.4576	7509.8	-34.34	653.83	684095.2	468049.8	-4240.8	108.89	90.54673	654.73
8043.19	90.54861	358.4578	7508.85	-37	752.78	684092.5	468148.8	-4239.85	98.99	90.54827	753.69
8142.18	90.54971	358.4581	7507.9	-39.67	851.74	684089.8	468247.7	-4238.9	98.99	90.54912	852.66
8241.18	90.55079	358.4583	7506.95	-42.33	950.69	684087.2	468346.7	-4237.95	98.99	90.55025	951.63
8340.17	90.55185	358.4586	7506	-44.99	1049.64	684084.5	468445.6	-4237	98.99	90.55138	1050.61
8439.16	90.55287	358.4588	7505.05	-47.65	1148.6	684081.9	468544.6	-4236.05	98.99	90.55223	1149.58
8538.16	90.55388	358.459	7504.09	-50.32	1247.55	684079.2	468643.6	-4235.09	98.99	90.55336	1248.56
8637.15	90.55485	358.4592	7503.13	-52.98	1346.5	684076.5	468742.5	-4234.13	98.99	90.55449	1347.54
8736.14	90.5558	358.4594	7502.17	-55.64	1445.46	684073.9	468841.5	-4233.17	98.99	90.55533	1446.53
8835.14	90.55672	358.4597	7501.21	-58.3	1544.41	684071.2	468940.4	-4232.21	98.99	90.55618	1545.51
8934.13	90.55762	358.4599	7500.25	-60.96	1643.36	684068.5	469039.4	-4231.25	98.99	90.55703	1644.49
9033.13	90.55849	358.4601	7499.28	-63.62	1742.32	684065.9	469138.3	-4230.28	98.99	90.55816	1743.48
9132.12	90.55934	358.4602	7498.32	-66.28	1841.27	684063.2	469237.3	-4229.32	98.99	90.55901	1842.46
9231.11	90.56016	358.4604	7497.35	-68.94	1940.22	684060.6	469336.2	-4228.35	98.99	90.55957	1941.45
9330.11	90.56096	358.4606	7496.38	-71.6	2039.17	684057.9	469435.2	-4227.38	98.99	90.5607	2040.43
9429.1	90.56172	358.4608	7495.41	-74.26	2138.13	684055.2	469534.1	-4226.41	98.99	90.56127	2139.42
9528.09	90.56247	358.4609	7494.44	-76.92	2237.08	684052.6	469633.1	-4225.44	98.99	90.56212	2238.4
9627.09	90.56318	358.4611	7493.47	-79.58	2336.03	684049.9	469732	-4224.47	98.99	90.56296	2337.39
9726.08	90.56388	358.4613	7492.5	-82.24	2434.99	684047.3	469831	-4223.5	98.99	90.56325	2436.38
9825.08	90.56454	358.4614	7491.52	-84.89	2533.94	684044.6	469929.9	-4222.52	98.99	90.56438	2535.36
9924.07	90.56519	358.4616	7490.54	-87.55	2632.89	684042	470028.9	-4221.54	98.99	90.56494	2634.35
10023.06	90.56579	358.4617	7489.57	-90.21	2731.85	684039.3	470127.9	-4220.57	98.99	90.56551	2733.34
10122.06	90.56638	358.4618	7488.59	-92.87	2830.8	684036.6	470226.8	-4219.59	98.99	90.56607	2832.32
10221.05	90.56694	358.4619	7487.61	-95.52	2929.75	684034	470325.8	-4218.61	98.99	90.56664	2931.31
10320.04	90.56748	358.4621	7486.63	-98.18	3028.71	684031.3	470424.7	-4217.63	98.99	90.5672	3030.3
10419.04	90.56799	358.4622	7485.65	-100.84	3127.66	684028.7	470523.7	-4216.65	98.99	90.56777	3129.29
10518.03	90.56847	358.4623	7484.67	-103.49	3226.61	684026	470622.6	-4215.67	98.99	90.56805	3228.27
10617.02	90.56893	358.4624	7483.69	-106.15	3325.57	684023.4	470721.6	-4214.69	98.99	90.56889	3327.26
10716.02	90.56937	358.4625	7482.7	-108.81	3424.52	684020.7	470820.5	-4213.7	98.99	90.56899	3426.25
10815.01	90.56977	358.4626	7481.72	-111.46	3523.47	684018	470919.5	-4212.72	98.99	90.56975	3525.24
10914.01	90.57016	358.4627	7480.73	-114.12	3622.43	684015.4	471018.4	-4211.73	98.99	90.57003	3624.22
11013	90.5705	358.4627	7479.75	-116.77	3721.38	684012.7	471117.4	-4210.75	98.99	90.57031	3723.21
11111.99	90.57084	358.4628	7478.76	-119.43	3820.33	684010.1	471216.3	-4209.76	98.99	90.5706	3822.2
11210.99	90.57114	358.4629	7477.78	-122.08	3919.29	684007.4	471315.3	-4208.78	98.99	90.57088	3921.19
11309.98	90.57142	358.463	7476.79	-124.74	4018.24	684004.8	471414.2	-4207.79	98.99	90.57144	4020.18
11408.97	90.57167	358.463	7475.8	-127.39	4117.19	684002.1	471513.2	-4206.8	98.99	90.57144	4119.16
11507.97	90.5719	358.463	7474.81	-130.05	4216.15	683999.5	471612.2	-4205.81	98.99	90.57173	4218.15
11606.96	90.57209	358.4631	7473.83	-132.7	4315.1	683996.8	471711.1	-4204.83	98.99	90.57201	4317.14
11705.96	90.57227	358.4631	7472.84	-135.36	4414.05	683994.1	471810.1	-4203.84	98.99	90.57229	4416.13
11804.95	90.57242	358.4632	7471.85	-138.01	4513.01	683991.5	471909	-4202.85	98.99	90.57229	4515.12
11903.94	90.57254	358.4632	7470.86	-140.67	4611.96	683988.8	472008	-4201.86	98.99	90.57257	4614.1
12002.94	90.57263	358.4632	7469.87	-143.32	4710.91	683986.2	472106.9	-4200.87	98.99	90.57257	4713.09
12101.93	90.57271	358.4632	7468.88	-145.98	4809.87	683983.5	472205.9	-4199.88	98.99	90.57257	4812.08
12200.92	90.57275	358.4633	7467.89	-148.63	4908.82	683980.9	472304.8	-4198.89	98.99	90.57286	4911.07
12299.92	90.57278	358.4633	7466.9	-151.29	5007.77	683978.2	472403.8	-4197.9	98.99	90.57257	5010.06
12398.91	90.57276	358.4633	7465.91	-153.94	5106.72	683975.6	472502.7	-4196.91	98.99	90.57286	5109.04
12497.91	90.57274	358.4633	7464.92	-156.6	5205.68	683972.9	472601.7	-4195.92	98.99	90.57286	5208.03
12596.9	90.57267	358.4632	7463.93	-159.25	5304.63	683970.3	472700.6	-4194.93	98.99	90.57257	5307.02

12695.89	90.57259	358.4632	7462.94	-161.91	5403.58	683967.6	472799.6	-4193.94	98.99	90.57257	5406.01
12794.89	90.57248	358.4632	7461.95	-164.56	5502.54	683964.9	472898.5	-4192.95	98.99	90.57257	5505
12893.88	90.57234	358.4632	7460.96	-167.22	5601.49	683962.3	472997.5	-4191.96	98.99	90.57257	5603.99
12992.88	90.57217	358.4631	7459.98	-169.87	5700.44	683959.6	473096.4	-4190.98	98.99	90.57201	5702.97
13091.87	90.572	358.4631	7458.99	-172.53	5799.4	683957	473195.4	-4189.99	98.99	90.57229	5801.96
13190.86	90.57178	358.463	7458	-175.18	5898.35	683954.3	473294.4	-4189	98.99	90.57173	5900.95
13279.96	90.57156	358.463	7457.11	-177.57	5987.41	683951.9	473383.4	-4188.11	89.09	90.57182	5990.04
13378.95	90.5713	358.4629	7456.12	-180.23	6086.36	683949.3	473482.4	-4187.12	98.99	90.57144	6089.03
13477.94	90.57101	358.4629	7455.14	-182.88	6185.31	683946.6	473581.3	-4186.14	98.99	90.57116	6188.02
13576.94	90.57069	358.4628	7454.15	-185.54	6284.27	683944	473680.3	-4185.15	98.99	90.57088	6287.01
13675.93	90.57036	358.4627	7453.16	-188.19	6383.22	683941.3	473779.2	-4184.16	98.99	90.57031	6385.99
13774.92	90.56999	358.4626	7452.18	-190.85	6482.17	683938.7	473878.2	-4183.18	98.99	90.57031	6484.98
13873.92	90.5696	358.4626	7451.19	-193.5	6581.13	683936	473977.1	-4182.19	98.99	90.56975	6583.97
13972.91	90.56918	358.4625	7450.21	-196.16	6680.08	683933.3	474076.1	-4181.21	98.99	90.56947	6682.96
14071.91	90.56874	358.4623	7449.23	-198.82	6779.03	683930.7	474175	-4180.23	98.99	90.56889	6781.95
14170.9	90.56827	358.4623	7448.25	-201.47	6877.99	683928	474274	-4179.25	98.99	90.56862	6880.94
14269.89	90.56777	358.4621	7447.26	-204.13	6976.94	683925.4	474372.9	-4178.26	98.99	90.56805	6979.93
14368.89	90.56725	358.462	7446.28	-206.79	7075.89	683922.7	474471.9	-4177.28	98.99	90.56749	7078.91
14467.88	90.5667	358.4619	7445.3	-209.44	7174.85	683920.1	474570.9	-4176.3	98.99	90.56692	7177.9
14566.88	90.56612	358.4618	7444.33	-212.1	7273.8	683917.4	474669.8	-4175.33	98.99	90.56636	7276.89

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Strata Production Company
WELL NAME & NO.:	Forty Niner Ridge Unit 34H
LOCATION:	Sec 22-23S-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="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
Variance	<input type="checkbox"/> Four-String	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> 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 43 CFR 3176 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 450 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.
 - 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.
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 **7** inch production casing (with 5 inch taper) is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

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)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

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 (API No. / US Well No. contains 30-015-#####)
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 (API No. / US Well No. contains 30-025-#####)

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

Forty Niner Ridge Unit #34H
Section 22-T23S-R30E
SHL: 330' FSL & 1,960' FWL of Sec 22
BHL: 2,310' FSL & 1,790' FWL of Sec 15
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

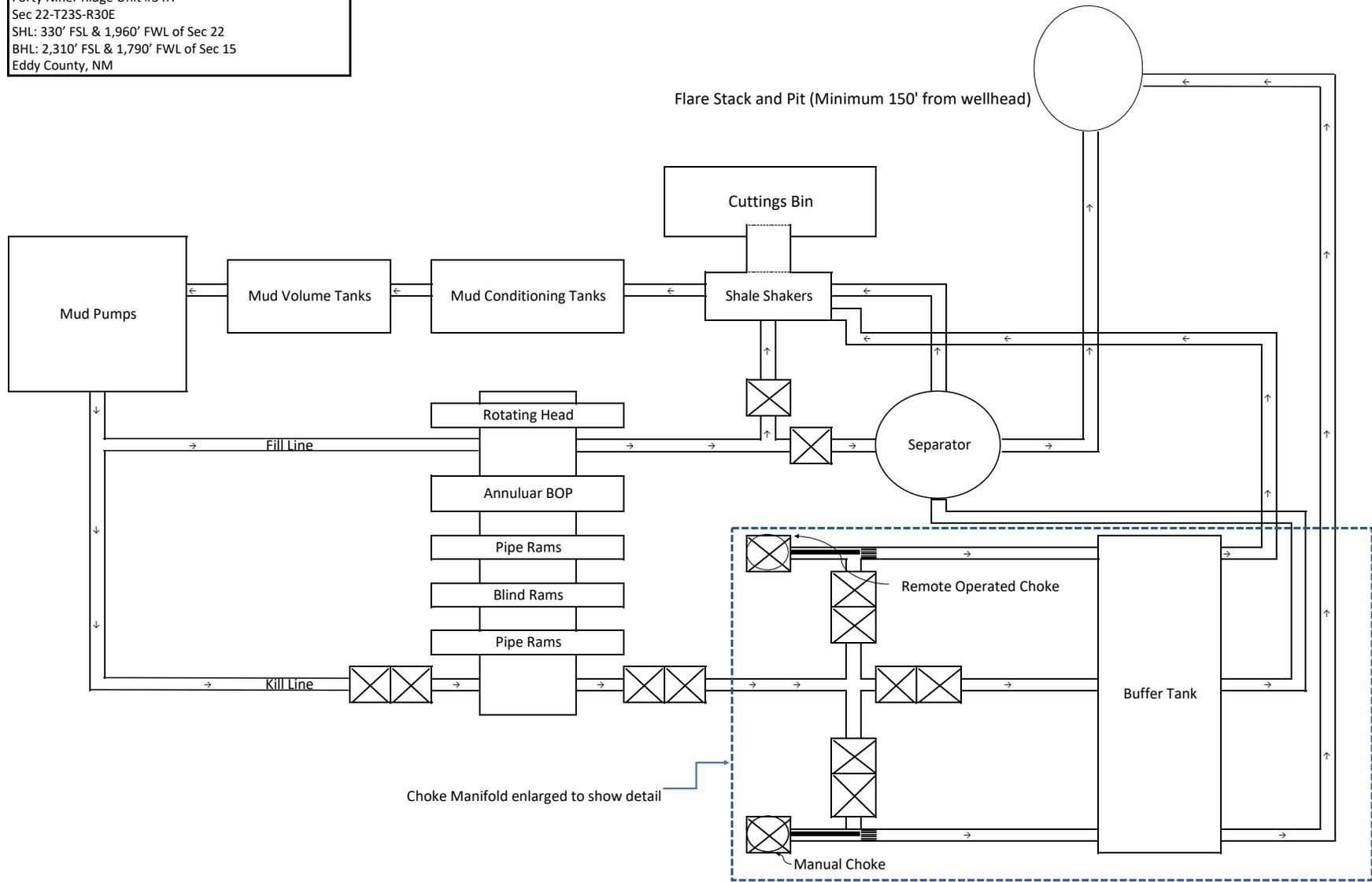
911 Must have Correct County & State & Directions to your location

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
Forty Niner Ridge Unit #34H
Sec 22-T235-R30E
SHL: 330' FSL & 1,960' FWL of Sec 22
BHL: 2,310' FSL & 1,790' FWL of Sec 15
Eddy County, NM



STRATA PRODUCTION COMPANY

Forty Niner Ridge Unit #34H

Sec 22-T23S-R30E

SHL: 330' FSL & 1,960' FWL of Sec 22

BHL: 2,310' FSL & 1,790' FWL of Sec 15

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 378273

CONDITIONS

Operator: STRATA PRODUCTION CO P.O. Box 1030 Roswell, NM 882021030	OGRID: 21712
	Action Number: 378273
	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	8/30/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/30/2024
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	8/30/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	8/30/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	8/30/2024
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	8/30/2024
ward.rikala	Operator must comply with all requirements of R-111-Q.	8/30/2024