

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED 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. 30-015-55362
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 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 30-015-55362		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 55H
⁷ OGRID NO. 21712	⁸ Operator Name STRATA PRODUCTION COMPANY		⁹ Elevation 3152'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
B	15	23S	30E		805	NORTH	2421	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. N	Section 22	Township 23S	Range 30E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 2310	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.

<div data-bbox="38 959 573 2005"><p>S 89°47'16" W 2676.56' (F) S 89°48'32" W 2678.76' (G)</p><p>NMN0543748</p><p>SL/KOP/FTP/PPP1</p><p>NMN0531731</p><p>PPP2</p><p>NMN0531277</p><p>PPP3</p><p>S 89°45'35" W 2672.83' (M) S 89°44'01" W 2675.62'</p><p>NMN0531731</p><p>E052290011</p><p>LTP/BH</p><p>2310'</p><p>100'</p><p>S 89°41'14" W 2679.48' (L) S 89°41'00" W 2679.47' (K)</p></div>	<div data-bbox="696 1194 940 1239">GEODETIC DATA NAD 83 GRID – NM EAST</div> <div data-bbox="589 1249 1047 1344"><u>SURFACE LOCATION (SL)/ KICK OFF POINT (KOP)/ FIRST TAKE POINT (FTP)/ PROPOSED PENETRATION POINT 1 (PPP1)</u> N: 476855.7 – E: 685056.1 LAT: 32.3100919° N LONG: 103.8681370° W</div> <div data-bbox="589 1398 1047 1472"><u>PROPOSED PENETRATION POINT 2 (PPP2)</u> <u>2648' FNL & 2631' FEL SEC. 15</u> N: 475012.8 – E: 684846.7 LAT: 32.3050288° N LONG: 103.8688405° W</div> <div data-bbox="589 1526 1047 1610"><u>PROPOSED PENETRATION POINT 3 (PPP3)</u> <u>0' FSL & 2592' FWL</u> N: 472363.7 – E: 684723.3 LAT: 32.2977484° N LONG: 103.8692770° W</div> <div data-bbox="589 1665 1047 1728"><u>LAST TAKE POINT (LTP)/BOTTOM HOLE (BH)</u> N: 467167.9 – E: 684481.3 LAT: 32.2834692° N LONG: 103.8701329° W</div>	<div data-bbox="1062 949 1550 1482"><div data-bbox="1123 982 1490 1024">17 OPERATOR CERTIFICATION</div><div data-bbox="1062 1024 1550 1260"><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></div><div data-bbox="1062 1260 1550 1472"><div data-bbox="1062 1260 1520 1323"><div>Jerry Elgin08/21/2023</div><div>SignatureDate</div></div><div data-bbox="1062 1323 1520 1377"><div>Jerry Elgin, VP of Operations</div><div>Printed Name</div></div><div data-bbox="1062 1377 1520 1472"><div>jelgin@stratanm.com</div><div>E-mail Address</div></div></div></div> <div data-bbox="1062 1482 1550 2016"><div data-bbox="1062 1482 1550 1995"><div data-bbox="1107 1482 1505 1516">18 SURVEYOR CERTIFICATION</div><div data-bbox="1062 1516 1550 1654"><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></div><div data-bbox="1062 1654 1550 1995"><div data-bbox="1062 1654 1520 1728"><div>07/11/2023</div><div>Date of Survey</div></div><div data-bbox="1062 1728 1550 1995"><div>Signature and Seal of Professional Surveyor</div><div data-bbox="1214 1654 1550 1995"></div></div></div></div><div data-bbox="1062 1995 1550 2016"><div data-bbox="1062 1995 1550 2016"><div>14400</div><div>Certificate Number</div></div><div data-bbox="1062 1995 1550 2016"><div>Job No.: LS23020167</div></div></div></div>
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N	22	23S	30E		100	SOUTH	2310	WEST	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.

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.

Jerry Elgin 08/21/2023
Signature Date

Jerry Elgin, VP of Operations
Printed Name

jelgin@stratanm.com
E-mail Address

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.

07/11/2023

Date of Survey _____

Signature and Seal of Professional Surveyor: _____

14400

Certificate Number

Job No.: LS23020167

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

Submit Electronically
Via E-permitting

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 15-T23S-R30E	805' FNL &	800	1,200	2,200
#55H			2,421' FEL			

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		12/5/2024	1/5/2025	1/10/2025	1/15/2025	1/20/2025
#55H						

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 #55H		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	1/20/2025	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

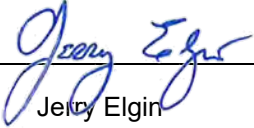
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 #55H
Section 15-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.

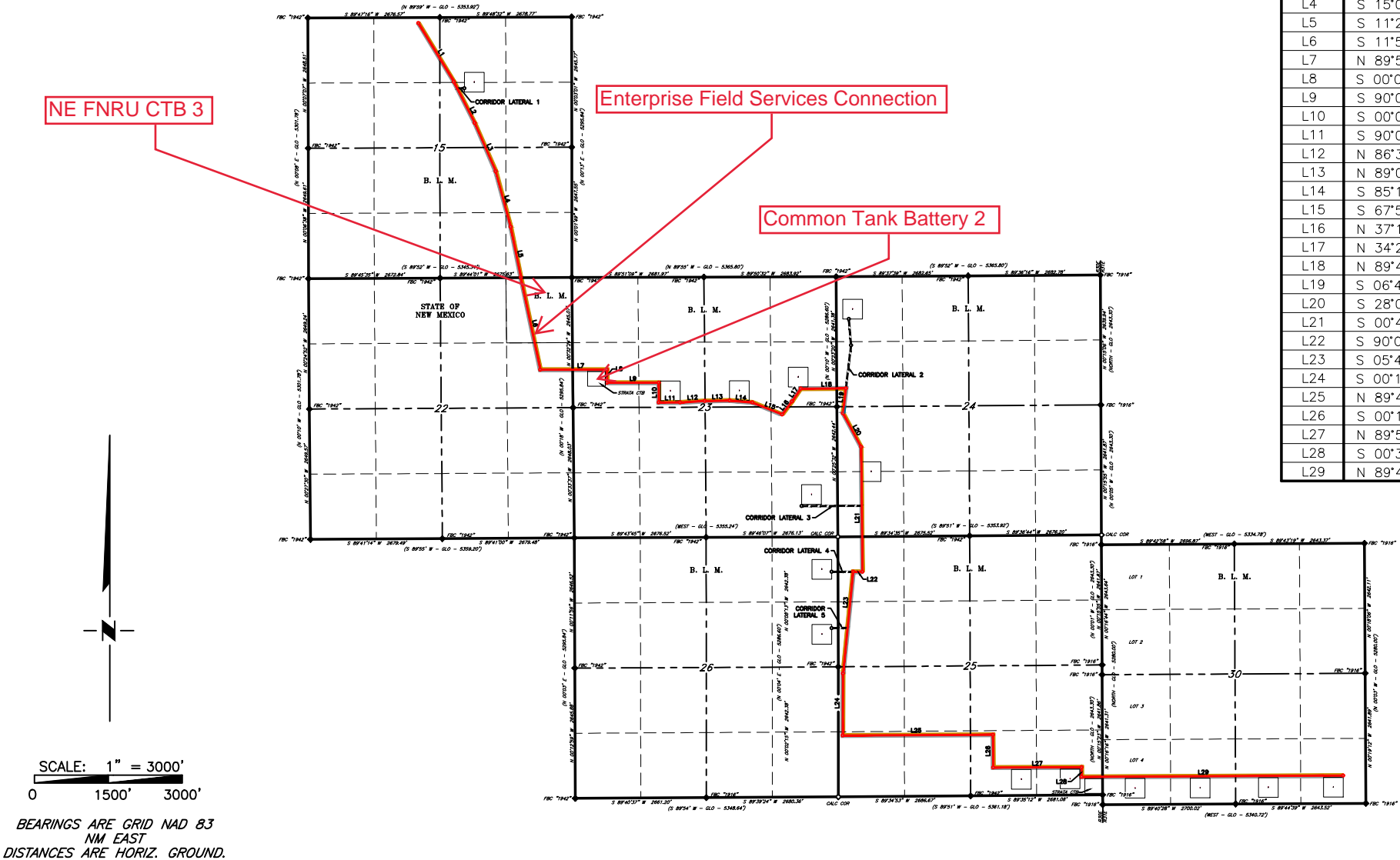
F. Measurement of Vented and Flared Natural Gas

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'

LEGEND

() RECORD DATA - GLO
◇ CALCULATED CORNER
◆ FOUND MONUMENT AS NOTED

PROPOSED MAIN CORRIDOR
ACCESS ROAD
ELECTRIC LINE

Copyright 2016 - All Rights Reserved

SCALE: 1" = 3000'

DATE: 5/22/2019

SURVEYED BY: BK/AS

DRAWN BY: GA

APPROVED BY: RMH

SHEET: 1 OF 12

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

NO.	REVISION	DATE

JOB NO.: LS19050633

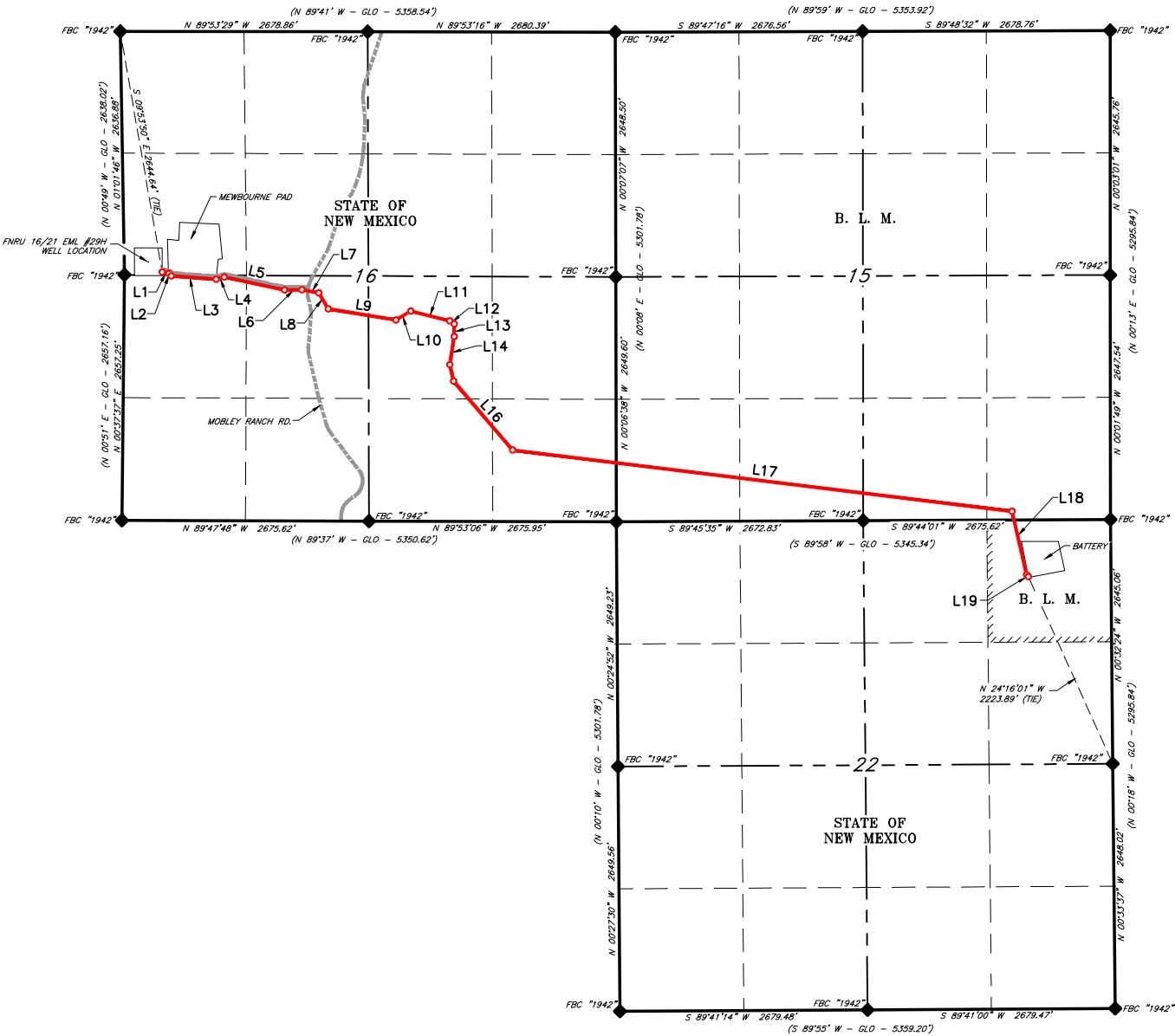
DWG. NO.: 19050633-1

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.



SCALE: 1" = 1800'

0 900' 1800'

BEARINGS ARE GRID NAD 83
NM EAST

DISTANCES ARE HORIZ. GROUND.

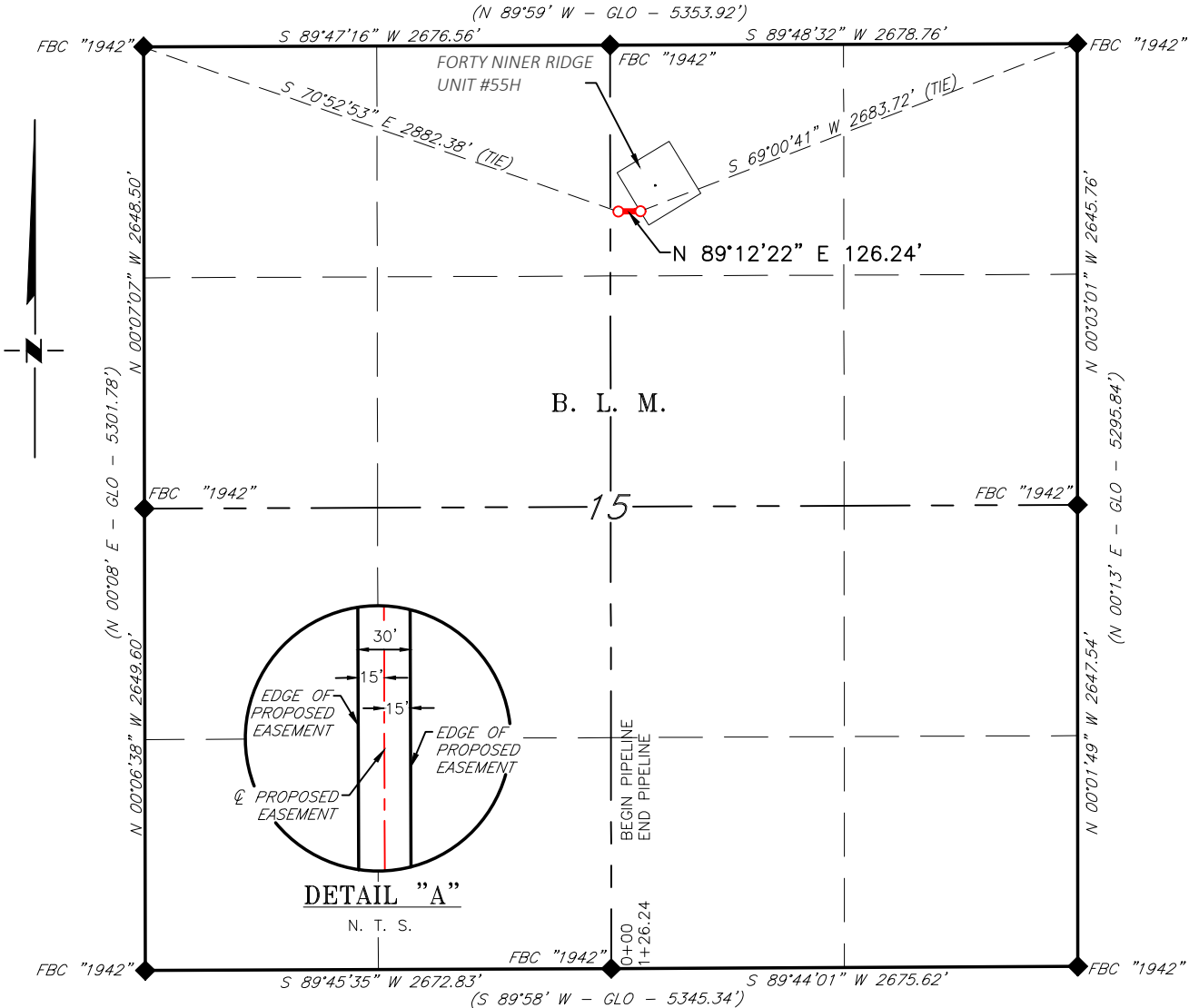
1	REROUTE	3/23/23
NO.	REVISION	DATE
JOB NO.: LS23030268R		
DWG. NO.: 23030268R-1		



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 #55H
SECTION 15, T23S, R30E,
N. M. P. M., EDDY CO., NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 126.24 feet or 7.65 rods in length, lying in Section 15, 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 B. L. M. land:

BEGINNING at Engr. Sta. 0+00 a point in the Northeast quarter of Section 15, which bears, S 70°52'53" E, 2,882.38 feet from a brass cap, stamped "1942", found for the Northwest corner of Section 15;

Thence N 89°12'22" E, 126.24 feet, to Engr. Sta. 1+26.24, the End of Survey, a point in the Northeast quarter of Section 15, which bears S 69°00'41" W, 2,683.72 feet from a brass cap, stamped "1942", found for the Northeast corner of Section 15;

Said strip of land contains 0.087 acres, more or less and is allocated by forties as follows:

NW 1/4 NE 1/4 7.651 Rods 0.087 Acres

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 FLOWLINE

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.: LS23070603		
DWG. NO.: 23070603-1		

RRC

ENERGY SERVICES, LLC.

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

SCALE: 1" = 1000'
DATE: 07/13/2023
SURVEYED BY: JF/MP/HA
DRAWN BY: RQ
APPROVED BY: DEB
SHEET: 1 OF 1



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

Drilling Plan Data Report

07/25/2024

APD ID: 10400093934

Submission Date: 10/23/2023

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 55H

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
12216279	RUSTLER	3152	59	59	SALT	NONE	N
12216280	SALADO	2655	497	497	SALT	NONE	N
12216281	BASE OF SALT	-416	3568	3568	SALT	NONE	N
12216282	LAMAR	-456	3608	3608	LIMESTONE, SHALE	NATURAL GAS, OIL	Y
12216283	BELL CANYON	-484	3636	3636	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12216284	CHERRY CANYON	-1410	4562	4562	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12216285	BRUSHY CANYON	-2687	5839	5839	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12216286		-4351	7503	7503	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__55H_Choke_Diagram_20230816151647.pdf

BOP Diagram Attachment:

Forty_Niner_Ridge_Unit__55H_BOPE_Description_20230816151655.pdf

Forty_Niner_Ridge_Unit__55H_BOPE_20230816151702.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNITWell Number: 55H

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	3152	2702	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	3152	-648	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	6650	0	6650	3152	-3498	6650	HCP-110	29	LT&C	2.99	3.24	DRY	2.05	DRY	2.39
4	PRODUCTION	8.5	5.5	NEW	API	Y	6650	16451	6583	7139	-3431	-3987	9801	HCP-110	20	OTHER - DWC-IC	3.58	2.48	DRY	3.27	DRY	3.4

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__55H_Casing_Worksheet_20231023095858.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNITWell Number: 55H

Casing Attachments

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__55H_Casing_Worksheet_20231023095924.pdf

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Forty_Niner_Ridge_Unit__55H_Tapered_String_20231023100355.pdf

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__55H_Casing_Worksheet_20231023100007.pdf

Casing ID: 4StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Forty_Niner_Ridge_Unit__55H_Tapered_String_20231023100435.pdf

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__55H_Casing_Worksheet_20231023100455.pdf

Section 4 - Cement

Operator Name: STRATA PRODUCTION COMPANY**Well Name:** FORTY NINER RIDGE UNIT**Well Number:** 55H

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	1645 1	2118	1.43	13.2	3037	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		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:** 55H

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	1645 1	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 DENSILOG,DUAL LATERAL LOG/MICRO-SPHERICALLY FOCUSED,GAMMA RAY LOG,CEMENT BOND LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3360

Anticipated Surface Pressure: 1789

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__55H_H2S_Plan_20230816151904.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT

Well Number: 55H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Forty_Niner_Ridge_Unit_55H_Preliminary_Directional_Plan_20231023101328.pdf

Forty_Niner_Ridge_Unit_55H_WBD_Permitting_20231023101336.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

NGMP_Form_Forty_Niner_Ridge_Unit_55H_20231023101902.pdf

Other Variance attachment:

Strata Production Company

Forty Niner Ridge Unit #55H

SHL: 805' FNL and 2,421' FEL of Section 15

BH: 100' FSL and 2,310' FWL of Section 22

Eddy County, NM

#	MD (ft)	Inclination	Azimuth (d	TVD (ft)	DX (ft)	DY (ft)	X (ft)	Y (ft)	Subsea (ft)	Segment L	Segment In	Offset
	0	0	0	0	0	0	685056.1	476855.7	3152	0	0	0
	109.29	0.02402	78.37407	109.29	0.02	0	685056.1	476855.7	3042.71	109.29	0.01201	0.02
	199.06	0.04384	78.37408	199.06	0.07	0.02	685056.1	476855.7	2952.94	89.76	0.03393	0.08
	305.21	0.06728	78.3741	305.21	0.18	0.04	685056.2	476855.7	2846.79	106.15	0.05556	0.18
	409.67	0.09043	78.37412	409.67	0.32	0.07	685056.4	476855.8	2742.33	104.46	0.07886	0.32
	495.43	0.10941	78.37413	495.43	0.46	0.1	685056.5	476855.8	2656.57	85.76	0.09992	0.47
	596.81	0.13187	78.37415	596.81	0.67	0.14	685056.7	476855.8	2555.2	101.38	0.12064	0.69
	696.52	0.15386	78.37417	696.52	0.92	0.19	685057	476855.9	2455.48	99.72	0.14287	0.93
	794.59	0.17547	78.37419	794.59	1.19	0.25	685057.2	476855.9	2357.41	98.07	0.16466	1.22
	891.02	0.19654	78.37421	891.01	1.5	0.31	685057.6	476856	2260.99	96.43	0.186	1.53
	1001.46	0.22055	78.37424	1001.46	1.89	0.39	685057.9	476856.1	2150.54	110.44	0.20855	1.93
	1094.38	0.24046	78.37426	1094.38	2.26	0.46	685058.3	476856.2	2057.62	92.92	0.2305	2.31
	1200.76	0.26306	78.37429	1200.76	2.72	0.56	685058.8	476856.2	1951.24	106.38	0.25176	2.77
	1290.23	0.28161	78.37431	1290.22	3.13	0.64	685059.2	476856.3	1861.78	89.47	0.27234	3.2
	1392.62	0.3026	78.37435	1392.61	3.64	0.75	685059.7	476856.4	1759.39	102.39	0.29211	3.72
	1492.88	0.3224	78.37438	1492.87	4.18	0.86	685060.2	476856.5	1659.13	100.26	0.3125	4.27
	1591.03	0.34133	78.37442	1591.02	4.74	0.97	685060.8	476856.7	1560.98	98.16	0.33187	4.84
	1687.1	0.35892	78.37447	1687.09	5.31	1.09	685061.4	476856.8	1464.91	96.07	0.35013	5.42
	1781.1	0.37547	78.37451	1781.09	5.9	1.21	685062	476856.9	1370.92	94	0.36719	6.02
	1886.02	0.39259	78.37457	1886	6.59	1.36	685062.6	476857	1266	104.92	0.38403	6.73
	1988.29	0.40793	78.37463	1988.27	7.29	1.5	685063.3	476857.2	1163.73	102.27	0.40026	7.44
	2087.94	0.42111	78.37469	2087.92	8	1.65	685064.1	476857.3	1064.08	99.65	0.41452	8.16
	2184.99	0.43217	78.37477	2184.97	8.7	1.79	685064.8	476857.5	967.03	97.06	0.42664	8.89
	2279.49	0.44069	78.37486	2279.46	9.41	1.94	685065.5	476857.6	872.54	94.49	0.43643	9.61
	2382.76	0.44734	78.37497	2382.73	10.19	2.1	685066.2	476857.8	769.27	103.27	0.44402	10.41
	2471.89	0.44975	78.37509	2471.86	10.88	2.24	685066.9	476857.9	680.14	89.13	0.44855	11.1
	2579.83	0.44924	78.37525	2579.8	11.71	2.41	685067.8	476858.1	572.2	107.94	0.4495	11.95
	2673.71	0.44283	78.37544	2673.67	12.42	2.56	685068.5	476858.2	478.33	93.88	0.44604	12.68
	2774.45	0.43175	78.37569	2774.41	13.17	2.71	685069.2	476858.4	377.59	100.74	0.43729	13.45
	2871.47	0.41203	78.37602	2871.43	13.87	2.85	685069.9	476858.5	280.57	97.02	0.42189	14.16
	2973.98	0.38394	78.37649	2973.93	14.57	3	685070.6	476858.7	178.07	102.51	0.39798	14.88
	3072.13	0.3431	78.3772	3072.09	15.18	3.12	685071.2	476858.8	79.91	98.16	0.36352	15.5
	3166.01	0.29312	78.37827	3165.96	15.69	3.23	685071.7	476858.9	-13.96	93.88	0.31811	16.02
	3263.63	0.22146	78.38052	3263.58	16.12	3.32	685072.2	476859	-111.58	97.62	0.25729	16.46
	3363.85	0.12565	78.38736	3363.8	16.42	3.38	685072.5	476859.1	-211.8	100.22	0.17356	16.76
	3465.47	0.00725	101.8982	3465.42	16.52	3.4	685072.6	476859.1	-313.42	101.62	0.0592	16.87
	3560.7	0.18698	259.238	3560.65	16.37	3.37	685072.4	476859.1	-408.65	95.23	0.09016	16.72
	3661.9	0.39705	257.9543	3661.85	15.87	3.26	685071.9	476859	-509.85	101.2	0.292	16.2
	3760.76	0.75195	258.5875	3760.7	14.9	3.06	685071	476858.8	-608.7	98.85	0.57449	15.21
	3855.98	1.16936	258.2304	3855.91	13.34	2.74	685069.4	476858.4	-703.91	95.23	0.96065	13.61
	3955.23	1.88405	258.4582	3955.13	10.75	2.21	685066.8	476857.9	-803.13	99.25	1.5267	10.97
	4053.69	2.95642	258.3162	4053.49	6.67	1.37	685062.7	476857.1	-901.49	98.45	2.42023	6.81
	4152.44	4.95731	258.4052	4152	0	0	685056.1	476855.7	-1000	98.75	3.95686	0
	4251.51	7.75735	258.3866	4250.45	-10.75	-2.21	685045.3	476853.5	-1098.45	99.07	6.35734	10.97
	4355.32	10.09162	258.379	4353	-26.52	-5.45	685029.5	476850.2	-1201	103.81	8.92447	27.07
	4454.48	11.82111	258.3752	4450.35	-44.98	-9.25	685011.1	476846.4	-1298.35	99.17	10.95636	45.92
	4548.53	12.95512	258.3733	4542.21	-64.74	-13.31	684991.3	476842.4	-1390.21	94.04	12.38812	66.1
	4650.07	13.86966	258.372	4640.98	-87.81	-18.06	684968.2	476837.6	-1488.98	101.55	13.41242	89.65
	4752.75	14.40468	258.3713	4740.55	-112.38	-23.12	684943.7	476832.6	-1588.55	102.68	14.13713	114.73
	4847.64	14.78164	258.3709	4832.38	-135.79	-27.94	684920.3	476827.8	-1680.38	94.89	14.59315	138.64
	4949.56	14.96573	258.3706	4930.88	-161.42	-33.21	684894.6	476822.5	-1778.88	101.92	14.87368	164.8
	5049.72	15.10894	258.3705	5027.61	-186.87	-38.45	684869.2	476817.2	-1875.61	100.16	15.03736	190.78
	5146.78	15.113	258.3705	5121.32	-211.65	-43.55	684844.4	476812.1	-1969.32	97.07	15.11096	216.09
	5249.96	15.13603	258.3705	5220.92	-238.02	-48.97	684818	476806.7	-2068.92	103.18	15.1245	243.01

5348.36	15.05467	258.3705	5315.92	-263.12	-54.14	684792.9	476801.5	-2163.92	98.39	15.09534	268.63
5440.45	15.02517	258.3706	5404.86	-286.53	-58.96	684769.5	476796.7	-2252.86	92.09	15.03994	292.53
5537.09	14.90726	258.3707	5498.22	-310.97	-63.99	684745.1	476791.7	-2346.22	96.65	14.96621	317.49
5638.48	14.84307	258.3708	5596.22	-336.47	-69.24	684719.6	476786.5	-2444.22	101.39	14.87517	343.52
5744.81	14.69611	258.371	5699.03	-363.02	-74.7	684693	476781	-2547.03	106.33	14.76957	370.62
5842.04	14.62355	258.3711	5793.1	-387.12	-79.66	684668.9	476776	-2641.1	97.24	14.65988	395.23
5943.33	14.47486	258.3712	5891.14	-412.04	-84.79	684644	476770.9	-2739.14	101.29	14.54917	420.68
6033.48	14.40696	258.3713	5978.44	-434.06	-89.32	684622	476766.4	-2826.44	90.14	14.44093	443.16
6142.63	14.24844	258.3715	6084.2	-460.52	-94.76	684595.5	476760.9	-2932.2	109.16	14.32771	470.17
6239.71	14.17364	258.3716	6178.31	-483.86	-99.57	684572.2	476756.1	-3026.31	97.08	14.211	494
6340.12	14.02734	258.3718	6275.69	-507.82	-104.5	684548.2	476751.2	-3123.69	100.41	14.10054	518.46
6443.93	13.94837	258.3719	6376.42	-532.4	-109.56	684523.7	476746.1	-3224.42	103.82	13.98782	543.56
6533.11	13.81818	258.3721	6462.99	-553.36	-113.87	684502.7	476741.8	-3310.99	89.18	13.88327	564.95
6624.76	13.75616	258.3722	6552	-574.75	-118.27	684481.3	476737.4	-3400	91.65	13.78717	586.79
6656.84	13.37935	237.9658	6583.21	-581.64	-121.01	684474.4	476734.7	-3431.21	32.09	13.36095	594.09
6688.68	14.66501	219.5525	6614.11	-587.33	-126.08	684468.7	476729.6	-3462.11	31.84	13.84899	600.71
6719.45	16.99925	206.0518	6643.72	-591.79	-133.12	684464.3	476722.6	-3491.72	30.77	15.72818	606.58
6751.11	20.04834	196.4791	6673.75	-595.36	-142.49	684460.7	476713.2	-3521.75	31.66	18.46407	612.18
6782.8	23.38511	189.8701	6703.19	-597.98	-153.9	684458.1	476701.8	-3551.19	31.69	21.6841	617.47
6814.57	26.84312	185.3294	6731.95	-599.73	-167.26	684456.3	476688.4	-3579.95	31.77	25.09707	622.62
6845.51	30.21076	182.1338	6759.13	-600.67	-182	684455.4	476673.7	-3607.13	30.94	28.51735	627.64
6877.51	33.66367	180.2145	6786.29	-600.94	-198.92	684455.1	476656.8	-3634.29	32	31.93217	633
6908.69	36.97276	177.6943	6811.73	-600.59	-216.93	684455.5	476638.8	-3659.73	31.18	35.31168	638.57
6939.99	40.22489	177.2446	6836.18	-599.73	-236.44	684456.3	476619.3	-3684.18	31.29	38.59833	644.65
6972.33	43.57067	175.6107	6860.26	-598.37	-257.99	684457.7	476597.7	-3708.26	32.34	41.89519	651.62
7003.8	46.74941	175.6963	6882.44	-596.68	-280.24	684459.4	476575.5	-3730.44	31.47	45.15973	659.21
7035.32	49.97124	174.6629	6903.39	-594.7	-303.71	684461.4	476552	-3751.39	31.52	48.35936	667.76
7066.87	53.14274	175.0897	6923	-592.49	-328.31	684463.6	476527.4	-3771	31.54	51.5565	677.37
7097.45	56.29992	174.458	6940.66	-590.21	-353.17	684465.8	476502.5	-3788.66	30.58	54.72146	687.81
7128.97	59.53515	175.1331	6957.39	-587.8	-379.76	684468.3	476475.9	-3805.39	31.51	57.91679	699.8
7161.38	62.99134	174.8198	6972.98	-585.31	-408.07	684470.8	476447.6	-3820.98	32.42	61.26345	713.51
7192.78	66.36897	175.7153	6986.4	-582.97	-436.35	684473.1	476419.3	-3834.4	31.4	64.67947	728.18
7224.1	69.89307	175.6609	6998.07	-580.78	-465.33	684475.3	476390.4	-3846.07	31.32	68.13094	744.2
7255.35	73.4752	176.7569	7007.89	-578.82	-494.92	684477.2	476360.8	-3855.89	31.25	71.68279	761.57
7286.54	77.22373	176.946	7015.77	-577.17	-525.05	684478.9	476330.6	-3863.77	31.19	75.3497	780.26
7318.64	81.17306	178.272	7021.79	-575.86	-556.55	684480.2	476299.1	-3869.79	32.1	79.19746	800.85
7349.81	85.18288	178.7059	7025.49	-575.04	-587.48	684481	476268.2	-3873.49	31.17	83.1784	822.07
7381.06	89.27392	179.7676	7027	-574.75	-618.68	684481.3	476237	-3875	31.25	87.22793	844.46
7490.69	89.27483	179.7788	7028.39	-574.32	-728.31	684481.7	476127.4	-3876.39	109.63	89.27425	927.51
7590.36	89.27563	179.7887	7029.65	-573.94	-827.97	684482.1	476027.7	-3877.65	99.67	89.27522	1007.44
7690.03	89.27643	179.7985	7030.91	-573.58	-927.63	684482.5	475928.1	-3878.91	99.67	89.27606	1090.64
7789.7	89.2772	179.8081	7032.17	-573.24	-1027.28	684482.8	475828.4	-3880.17	99.67	89.27691	1176.4
7889.37	89.27797	179.8176	7033.42	-572.91	-1126.94	684483.1	475728.7	-3881.42	99.67	89.27747	1264.21
7989.03	89.27872	179.8268	7034.68	-572.61	-1226.6	684483.5	475629.1	-3882.68	99.67	89.27859	1353.67
8088.7	89.27946	179.8359	7035.93	-572.31	-1326.26	684483.7	475529.4	-3883.93	99.67	89.27887	1444.48
8188.37	89.28019	179.8448	7037.19	-572.03	-1425.92	684484	475429.8	-3885.19	99.67	89.27999	1536.39
8288.04	89.28091	179.8536	7038.44	-571.77	-1525.58	684484.3	475330.1	-3886.44	99.67	89.28055	1629.21
8387.7	89.2816	179.8622	7039.69	-571.52	-1625.24	684484.5	475230.4	-3887.69	99.67	89.28112	1722.8
8487.37	89.28229	179.8707	7040.94	-571.29	-1724.9	684484.8	475130.8	-3888.94	99.67	89.28196	1817.05
8587.04	89.28295	179.8789	7042.18	-571.07	-1824.56	684485	475031.1	-3890.18	99.67	89.2828	1911.85
8686.71	89.28362	179.887	7043.43	-570.87	-1924.22	684485.2	474931.5	-3891.43	99.67	89.28308	2007.12
8786.38	89.28426	179.8949	7044.68	-570.68	-2023.88	684485.4	474831.8	-3892.68	99.67	89.28392	2102.8
8886.04	89.28489	179.9027	7045.92	-570.51	-2123.54	684485.6	474732.1	-3893.92	99.67	89.28477	2198.84
8985.71	89.2855	179.9103	7047.16	-570.34	-2223.2	684485.7	474632.5	-3895.16	99.67	89.28505	2295.19
9085.38	89.28611	179.9177	7048.41	-570.19	-2322.86	684485.9	474532.8	-3896.41	99.67	89.28589	2391.82
9185.05	89.2867	180	7049.65	-570.06	-2422.52	684486	474433.2	-3897.65	99.67	89.28645	2488.69
9284.72	89.28728	179.857	7050.89	-569.93	-2522.18	684486.1	474333.5	-3898.89	99.67	89.28701	2585.77
9384.38	89.28783	180	7052.13	-569.82	-2621.84	684486.2	474233.8	-3900.13	99.67	89.28757	2683.05
9484.05	89.28838	179.8846	7053.37	-569.72	-2721.5	684486.3	474134.2	-3901.37	99.67	89.28785	2780.49
9583.72	89.28892	180	7054.6	-569.63	-2821.16	684486.4	474034.5	-3902.6	99.67	89.2887	2878.1
9683.39	89.28944	179.9109	7055.84	-569.55	-2920.82	684486.5	473934.9	-3903.84	99.67	89.28926	2975.83

9783.06	89.28995	180	7057.08	-569.49	-3020.48	684486.6	473835.2	-3905.08	99.67	89.28982	3073.7
9882.72	89.29044	180	7058.31	-569.43	-3120.14	684486.6	473735.5	-3906.31	99.67	89.2901	3171.68
9982.39	89.29092	180	7059.54	-569.39	-3219.8	684486.7	473635.9	-3907.54	99.67	89.29066	3269.76
10082.06	89.29138	180	7060.78	-569.35	-3319.46	684486.7	473536.2	-3908.78	99.67	89.29122	3367.94
10181.73	89.29183	180	7062.01	-569.32	-3419.12	684486.7	473436.6	-3910.01	99.67	89.2915	3466.2
10281.39	89.29227	180	7063.24	-569.31	-3518.78	684486.7	473336.9	-3911.24	99.67	89.29207	3564.54
10381.06	89.2927	180	7064.47	-569.3	-3618.44	684486.8	473237.2	-3912.47	99.67	89.29235	3662.96
10480.73	89.29311	180	7065.7	-569.3	-3718.1	684486.8	473137.6	-3913.7	99.67	89.29291	3761.44
10580.4	89.29351	180	7066.93	-569.32	-3817.77	684486.7	473037.9	-3914.93	99.67	89.29347	3859.98
10680.07	89.29389	180	7068.16	-569.34	-3917.43	684486.7	472938.3	-3916.16	99.67	89.29375	3958.58
10779.73	89.29427	180	7069.39	-569.36	-4017.09	684486.7	472838.6	-3917.39	99.67	89.29403	4057.23
10879.4	89.29462	180	7070.61	-569.4	-4116.75	684486.7	472738.9	-3918.61	99.67	89.29431	4155.94
10979.07	89.29496	180	7071.84	-569.44	-4216.41	684486.6	472639.3	-3919.84	99.67	89.29487	4254.69
11078.74	89.2953	180	7073.07	-569.49	-4316.07	684486.6	472539.6	-3921.07	99.67	89.29515	4353.48
11178.41	89.29561	180	7074.29	-569.55	-4415.73	684486.5	472440	-3922.29	99.67	89.29544	4452.31
11278.08	89.29591	180	7075.52	-569.61	-4515.39	684486.4	472340.3	-3923.52	99.67	89.29572	4551.18
11377.74	89.2962	180	7076.74	-569.68	-4615.05	684486.4	472240.6	-3924.74	99.67	89.296	4650.08
11477.41	89.29648	180.0871	7077.97	-569.76	-4714.71	684486.3	472141	-3925.97	99.67	89.29656	4749.01
11577.08	89.29674	180	7079.19	-569.84	-4814.37	684486.2	472041.3	-3927.19	99.67	89.29656	4847.98
11676.75	89.29698	180.1	7080.41	-569.92	-4914.03	684486.1	471941.7	-3928.41	99.67	89.29684	4946.97
11776.42	89.29722	180	7081.64	-570.02	-5013.69	684486	471842	-3929.64	99.67	89.29712	5045.99
11876.08	89.29744	180.1114	7082.86	-570.11	-5113.35	684485.9	471742.3	-3930.86	99.67	89.2974	5145.04
11975.75	89.29764	180	7084.08	-570.21	-5213.01	684485.8	471642.7	-3932.08	99.67	89.2974	5244.11
12075.42	89.29784	180.1216	7085.3	-570.32	-5312.67	684485.7	471543	-3933.3	99.67	89.29768	5343.2
12175.09	89.29801	180	7086.52	-570.43	-5412.34	684485.6	471443.4	-3934.52	99.67	89.29796	5442.31
12274.76	89.29818	180.1304	7087.74	-570.54	-5512	684485.5	471343.7	-3935.74	99.67	89.29824	5541.45
12374.43	89.29833	180	7088.96	-570.66	-5611.66	684485.4	471244	-3936.96	99.67	89.29824	5640.6
12474.09	89.29847	180.1379	7090.19	-570.78	-5711.32	684485.3	471144.4	-3938.19	99.67	89.29824	5739.77
12573.76	89.29859	180	7091.41	-570.9	-5810.98	684485.2	471044.7	-3939.41	99.67	89.29852	5838.96
12673.43	89.29871	180.144	7092.63	-571.03	-5910.64	684485	470945	-3940.63	99.67	89.29881	5938.16
12773.1	89.2988	180	7093.85	-571.16	-6010.3	684484.9	470845.4	-3941.85	99.67	89.29852	6037.38
12872.77	89.29888	180.1487	7095.06	-571.29	-6109.96	684484.8	470745.7	-3943.06	99.67	89.29909	6136.61
12972.44	89.29895	180	7096.28	-571.42	-6209.62	684484.6	470646.1	-3944.28	99.67	89.29881	6235.86
13072.11	89.29901	180.1521	7097.5	-571.55	-6309.28	684484.5	470546.4	-3945.5	99.67	89.29909	6335.12
13171.77	89.29905	180	7098.72	-571.68	-6408.94	684484.4	470446.7	-3946.72	99.67	89.29881	6434.39
13271.44	89.29908	180.1542	7099.94	-571.82	-6508.6	684484.2	470347.1	-3947.94	99.67	89.29909	6533.67
13371.11	89.29909	180	7101.16	-571.95	-6608.27	684484.1	470247.4	-3949.16	99.67	89.29909	6632.97
13470.78	89.2991	180.1549	7102.38	-572.09	-6707.93	684484	470147.8	-3950.38	99.67	89.29909	6732.28
13570.45	89.29908	180	7103.6	-572.22	-6807.59	684483.8	470048.1	-3951.6	99.67	89.29909	6831.59
13670.12	89.29906	180.1543	7104.82	-572.35	-6907.25	684483.7	469948.4	-3952.82	99.67	89.29909	6930.92
13769.78	89.29901	180	7106.04	-572.49	-7006.91	684483.6	469848.8	-3954.04	99.67	89.29909	7030.26
13869.45	89.29897	180.1523	7107.26	-572.62	-7106.57	684483.4	469749.1	-3955.26	99.67	89.29909	7129.6
13969.12	89.29889	180	7108.48	-572.75	-7206.23	684483.3	469649.5	-3956.48	99.67	89.29881	7228.96
14068.79	89.29881	180.149	7109.7	-572.88	-7305.89	684483.2	469549.8	-3957.7	99.67	89.29881	7328.32
14168.46	89.29871	180	7110.92	-573.01	-7405.55	684483	469450.1	-3958.92	99.67	89.29881	7427.69
14268.13	89.29861	180.1443	7112.14	-573.13	-7505.21	684482.9	469350.5	-3960.14	99.67	89.29881	7527.06
14367.79	89.29848	180	7113.36	-573.26	-7604.87	684482.8	469250.8	-3961.36	99.67	89.29852	7626.45
14467.46	89.29836	180.1383	7114.58	-573.38	-7704.53	684482.7	469151.2	-3962.58	99.67	89.29824	7725.84
14567.13	89.29819	180	7115.8	-573.49	-7804.2	684482.6	469051.5	-3963.8	99.67	89.29824	7825.24
14666.8	89.29803	180.1309	7117.02	-573.61	-7903.86	684482.4	468951.8	-3965.02	99.67	89.29824	7924.64
14766.47	89.29786	180	7118.24	-573.72	-8003.52	684482.3	468852.2	-3966.24	99.67	89.29796	8024.05
14866.14	89.29767	180.1222	7119.46	-573.82	-8103.18	684482.2	468752.5	-3967.46	99.67	89.29768	8123.47
14965.8	89.29746	180	7120.68	-573.93	-8202.84	684482.1	468652.8	-3968.68	99.67	89.29768	8222.89
15065.47	89.29725	180.1122	7121.91	-574.02	-8302.5	684482	468553.2	-3969.91	99.67	89.2974	8322.32
15165.14	89.29701	180	7123.13	-574.12	-8402.16	684481.9	468453.5	-3971.13	99.67	89.29712	8421.75
15254.84	89.2968	180.1011	7124.23	-574.2	-8491.85	684481.9	468363.8	-3972.23	89.7	89.29668	8511.25
15354.51	89.29654	180	7125.45	-574.28	-8591.52	684481.8	468264.2	-3973.45	99.67	89.29684	8610.69
15454.18	89.29626	180.0887	7126.68	-574.36	-8691.18	684481.7	468164.5	-3974.68	99.67	89.29628	8710.13
15553.85	89.29598	180	7127.9	-574.43	-8790.84	684481.6	468064.8	-3975.9	99.67	89.29628	8809.58
15653.52	89.29568	180	7129.13	-574.49	-8890.5	684481.6	467965.2	-3977.13	99.67	89.29572	8909.04
15753.18	89.29536	180	7130.35	-574.55	-8990.16	684481.5	467865.5	-3978.35	99.67	89.29544	9008.5

15852.85	89.29504	180	7131.58	-574.6	-9089.82	684481.5	467765.9	-3979.58	99.67	89.29544	9107.96
15952.52	89.2947	180	7132.8	-574.65	-9189.48	684481.4	467666.2	-3980.8	99.67	89.29487	9207.43
16052.19	89.29435	180	7134.03	-574.68	-9289.14	684481.4	467566.5	-3982.03	99.67	89.29431	9306.9
16151.86	89.29398	180	7135.26	-574.71	-9388.8	684481.3	467466.9	-3983.26	99.67	89.29431	9406.37
16251.52	89.2936	180	7136.49	-574.73	-9488.46	684481.3	467367.2	-3984.49	99.67	89.29375	9505.85
16351.19	89.29321	180	7137.72	-574.75	-9588.12	684481.3	467267.6	-3985.72	99.67	89.29347	9605.33
16450.86	89.2928	180	7138.95	-574.75	-9687.78	684481.3	467167.9	-3986.95	99.67	89.29291	9704.82

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Strata Production Company
WELL NAME & NO.:	Forty Niner Ridge Unit 55H
LOCATION:	Sec 22-23S-30E-NMP
COUNTY:	Eddy County, New Mexico ▼

COA

H ₂ S	<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-Q	<input type="radio"/> Open Annulus
	3-String Design: Intermediate Casing Designed for Frac Loads			<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 type="radio"/> DV Tool
Special Req	<input type="radio"/> Capitan Reef	<input type="radio"/> Water Disposal	<input type="radio"/> COM	<input checked="" type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input type="radio"/> Waste Man. Plan	<input checked="" type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

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.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

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 **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate 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.**
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. 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. **(This is not necessary for secondary recovery unit wells)**

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)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;

BLM NM CFO DrillingNotifications@BLM.GOV; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q 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 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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).
 - ii. 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.)

- iii. 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 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 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 #55H

Section 15-T23S-R30E

SHL: 805' FNL & 2421' FEL of Sec 15

BHL: 100' FSL & 2310' FWL of Sec 22

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**

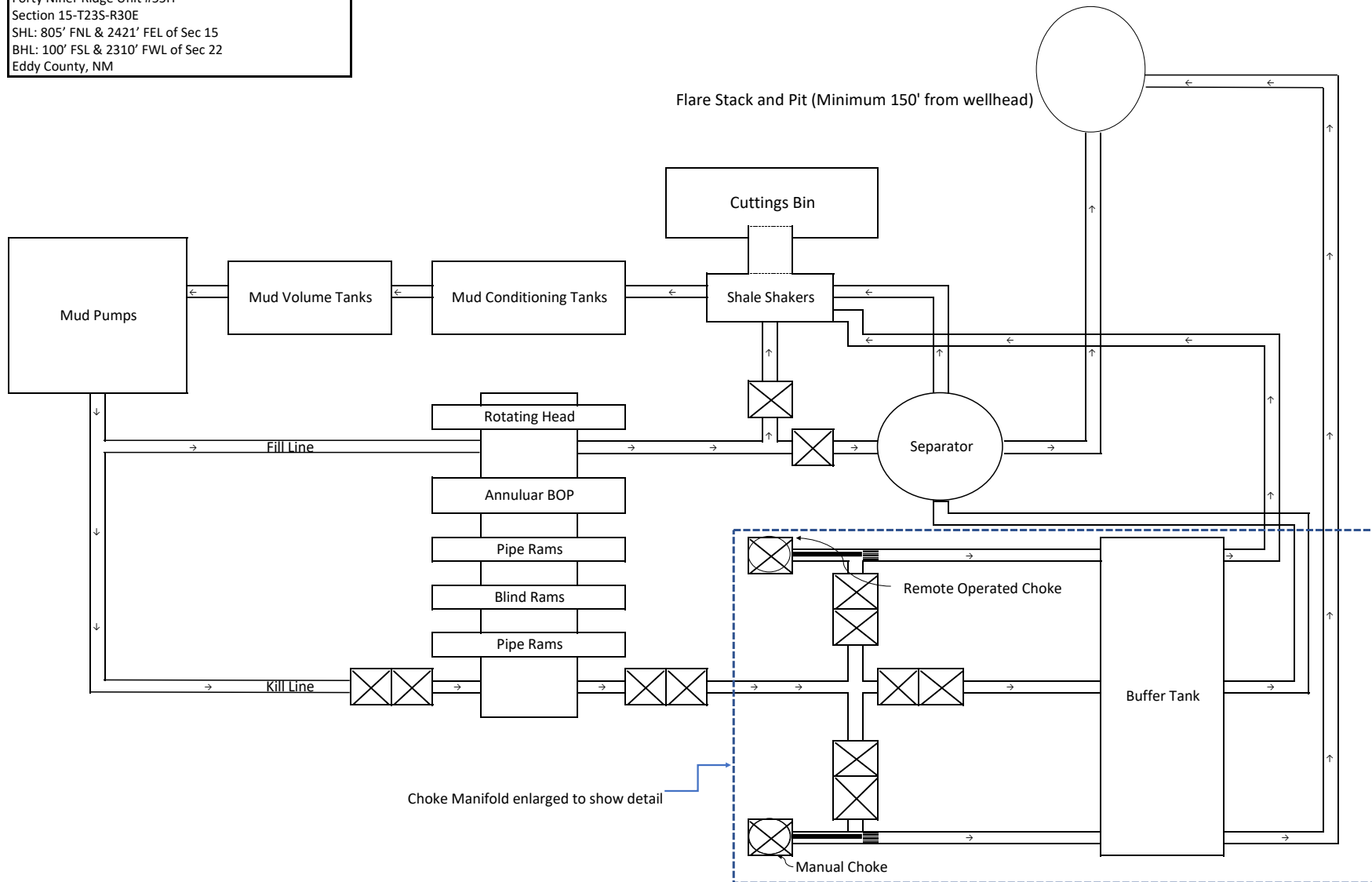
EMERGENCY NUMBERS**911 Must have Correct County & State & Directions to your location**

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 #55H
Section 15-T23S-R30E
SHL: 805' FNL & 2421' FEL of Sec 15
BHL: 100' FSL & 2310' FWL of Sec 22
Eddy County, NM



STRATA PRODUCTION COMPANY

Forty Niner Ridge Unit #55H

Sec 15-T23S-R30E

SHL: 805' FNL & 2421' FEL of Sec 15

BHL: 100' FSL & 2310' FWL of Sec 22

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 370388

CONDITIONS

Operator: STRATA PRODUCTION CO P.O. Box 1030 Roswell, NM 882021030	OGRID:
	21712
	Action Number:
	370388
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	8/27/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/27/2024
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	8/27/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	8/27/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	8/27/2024
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	8/27/2024
ward.rikala	This well can not be produced until the operator is in compliance with Rule 5.9.	8/27/2024
ward.rikala	The operator must comply with all of the requirements of R-111-Q.	8/27/2024
ward.rikala	This well may required an NSL/NSP.	8/27/2024