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

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-55360

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

16. No of acres in lease

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth

20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

22. Approximate date work will start*

23. Estimated duration

24. Attachments

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

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

25. Signature

Name *(Printed/Typed)*

Date

Title

Approved by *(Signature)*

Name *(Printed/Typed)*

Date

Title

Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 08/02/2024

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	2 Pool Code	3 Pool Name
30-015-55360	24750	FORTY NINER RIDGE DELAWARE

4 Property Code	5 Property Name	6 Well Number
28510	FORTY NINER RIDGE UNIT	35H

7 OGRID NO.	8 Operator Name	9 Elevation
21712	STRATA PRODUCTION COMPANY	3259'

10 Surface Location

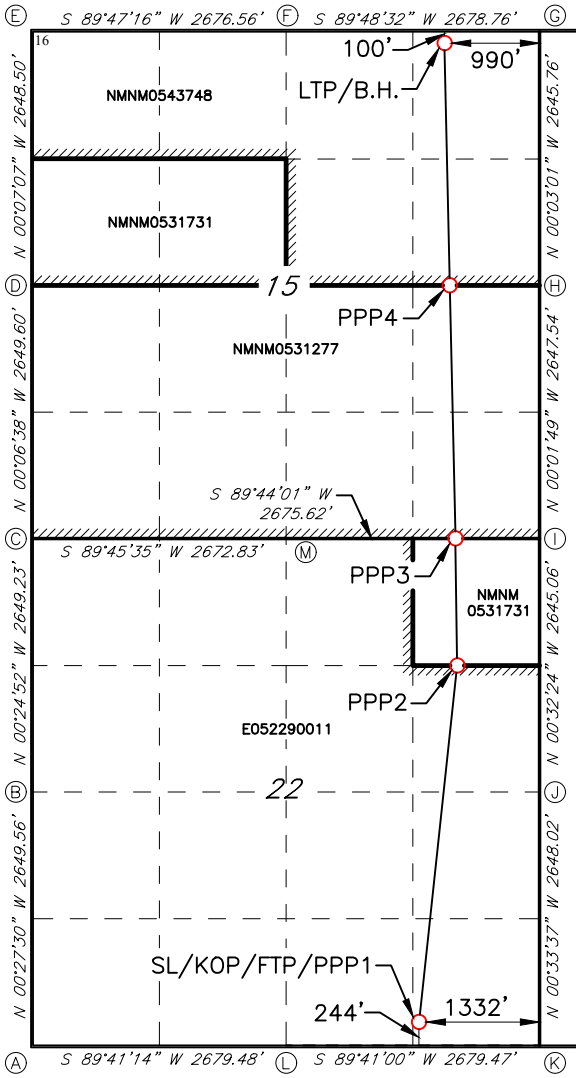
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
P	22	23S	30E		244	SOUTH	1332	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	15	23S	30E		100	NORTH	990	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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.



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)/KICK OFF POINT (KOP)/
FIRST TAKE POINT (FTP)/
PROPOSED PENETRATION POINT 1 (PPP1)
N: 467321.4 – E: 686196.3

LAT: 32.2838705° N
LONG: 103.8645813° W

PROPOSED PENETRATION POINT 2 (PPP2)
1323' FNL & 857' FEL SEC. 22
N: 471050.1 – E: 686635.2

LAT: 32.2941146° N
LON: 103.8631082° W

PROPOSED PENETRATION POINT (PPP3)
0' FSL & 875' FEL
N: 472372.4 – E: 686604.9

LAT: 32.2977498° N
LON: 103.8631874° W

PROPOSED PENETRATION POINT (PPP4)
2648' FSL & 934' FEL
N: 475019.7 – E: 686544.3

LAT: 32.3050273° N
LON: 103.8633458° W

LAST TAKE POINT (LTP)/BOTTOM HOLE (BH)
N: 477565.4 – E: 686486.1

LAT: 32.3120255° N
LONG: 103.8634982° W

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:

DALE E. BELL
NEW MEXICO
14400
PROFESSIONAL SURVEYOR

14400 — 08/21/2023
Certificate Number

Job No: LS23020165

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
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Form C-102
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District Office

☐ AMENDED REPORT

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	FORTY NINER RIDGE UNIT	35H

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21712	STRATA PRODUCTION COMPANY	3259'

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A	15	23S	30E		100	NORTH	990	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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.

16

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1942"
N: 467055.4 – E: 682172.6

B: FOUND BRASS CAP "1942"
N: 469704.3 – E: 682151.4

C: FOUND BRASS CAP "1942"
N: 472352.8 – E: 682132.3

D: FOUND BRASS CAP "1942"
N: 475001.9 – E: 682127.2

E: FOUND BRASS CAP "1942"
N: 477649.8 – E: 682121.7

F: FOUND BRASS CAP "1942"
N: 477659.7 – E: 684797.6

G: FOUND BRASS CAP "1942"
N: 477668.6 – E: 687475.8

H: FOUND BRASS CAP "1942"
N: 475023.4 – E: 687478.1

I: FOUND BRASS CAP "1942"
N: 472376.5 – E: 687479.5

J: FOUND BRASS CAP "1942"
N: 469732.1 – E: 687504.4

K: FOUND BRASS CAP "1942"
N: 467084.8 – E: 687530.3

L: FOUND BRASS CAP "1942"
N: 467070.0 – E: 684851.5

M: FOUND BRASS CAP "1942"
N: 472364.0 – E: 684804.5

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:

DALE E. BELL
NEW MEXICO
14400
PROFESSIONAL SURVEYOR
08/21/2023

14400
Certificate Number

Job No: LS23020165

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 #35H		Sec 22-T23S-R30E	244' FSL & 1,332' FEL	800	1,200	2,200

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 #35H		10/11/2024	11/11/2024	11/21/2024	11/26/2024	11/30/2024

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 #35H		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	11/30/2024	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 #35H
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 of 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.

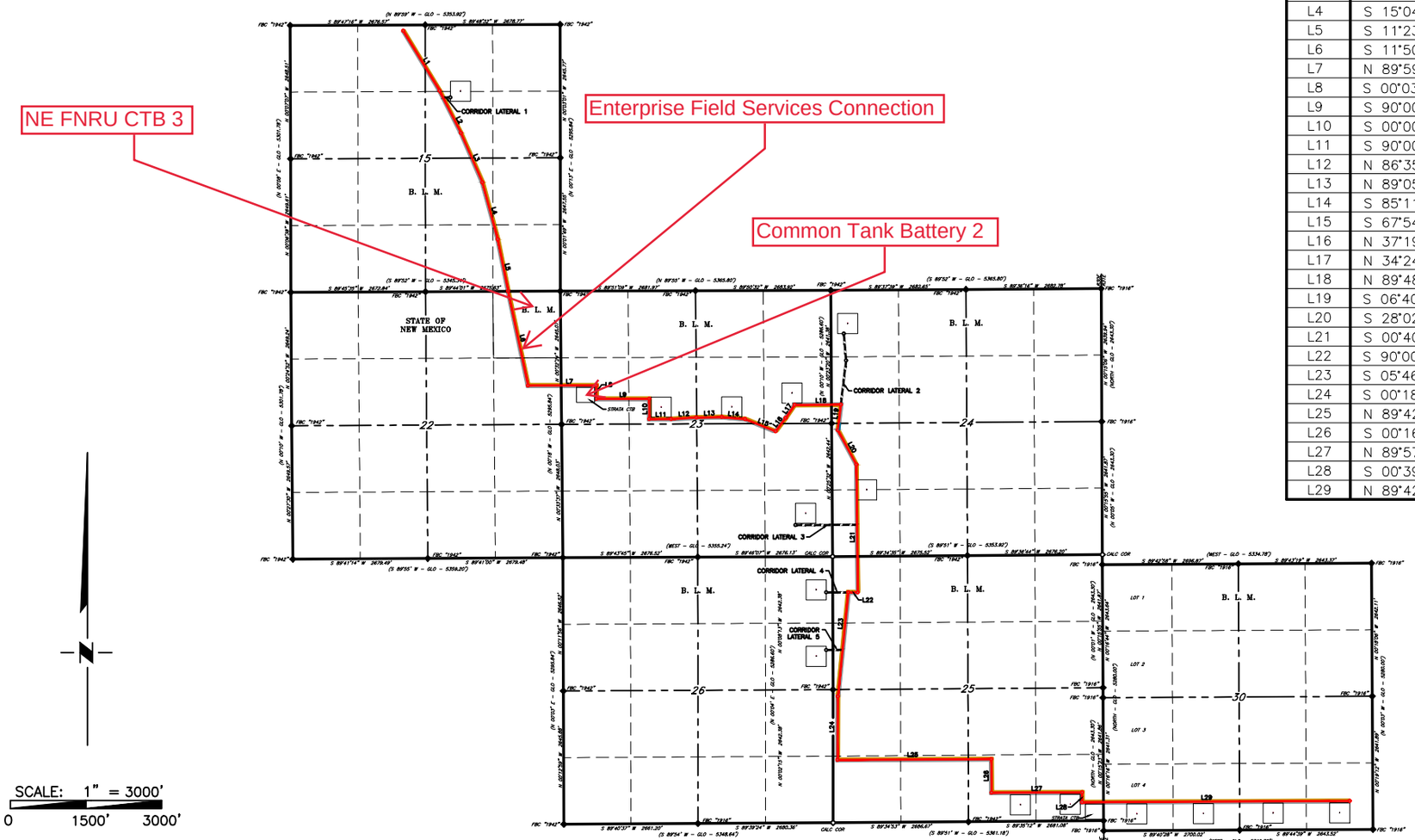
VIII. Maintenance Activities

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'

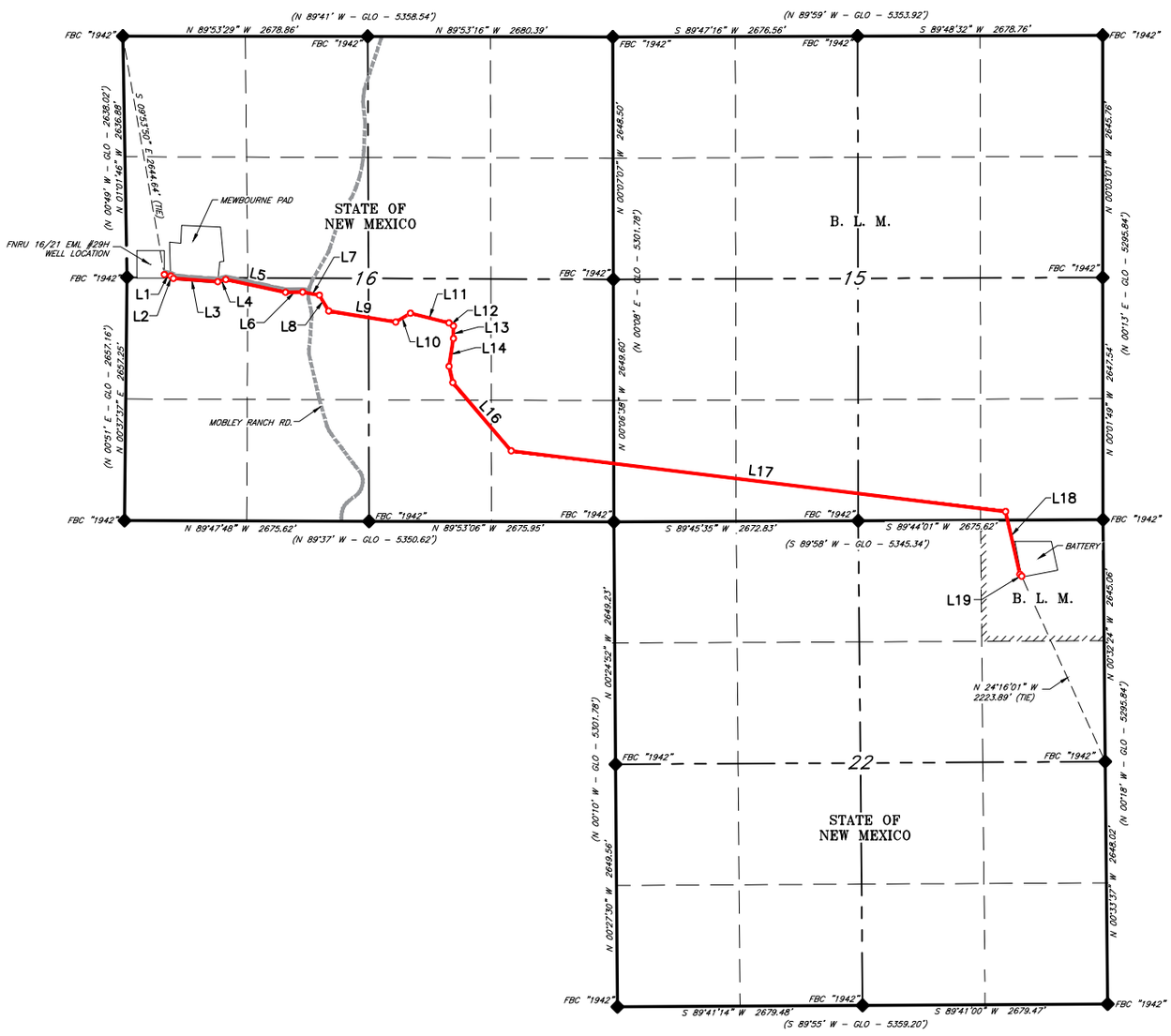
SCALE: 1" = 3000'
DATE: 5/22/2019
SURVEYED BY: BK/AS
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 12

RRC
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'

DALE E. BELL
NEW MEXICO
14400
04/04/2023
PROFESSIONAL SURVEYOR

SCALE: 1" = 1800'
0 900' 1800'

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

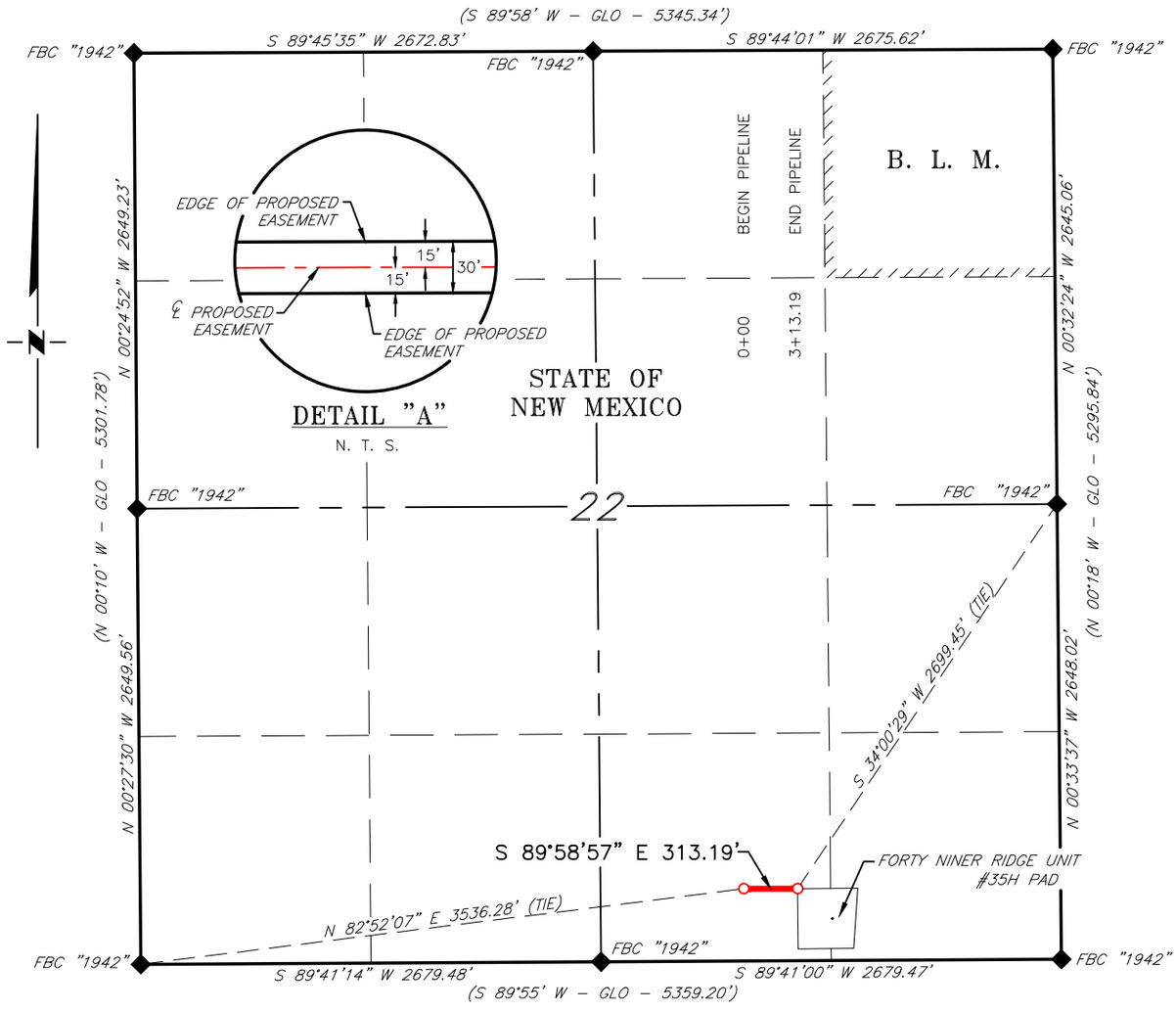
LEGEND
( ) RECORD DATA – GLO
◆ FOUND MONUMENT AS NOTED
PROPOSED UTILITY EASEMENT
EXISTING ACCESS ROAD
MOBLEY RANCH RD.

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

RRC ENERGY SERVICES, LLC.
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
#35H WELL LOCATION
SECTION 22, T23S, R30E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 313.19 feet or 18.981 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 Southeast quarter of Section 22, which bears, N 82°52'07" E, 3,536.28 feet from a brass cap, stamped "1942", found for the Southwest corner of Section 22;

Thence S 89°58'57" E, 313.19 feet, to Engr. Sta. 3+13.19, the End of Survey, a point in the Southeast quarter of Section 22, which bears, S 34°00'29" W, 2,699.45 feet from a brass cap, stamped "1942", found for the East corner of Section 22.

Said strip of land contains 0.216 acres, more or less, and is allocated by forties as follows:

SW 1/4 SE 1/4	18.981 Rods	0.216 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 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

DALE E. BELL
NEW MEXICO
14400
08/21/2023
PROFESSIONAL SURVEYOR

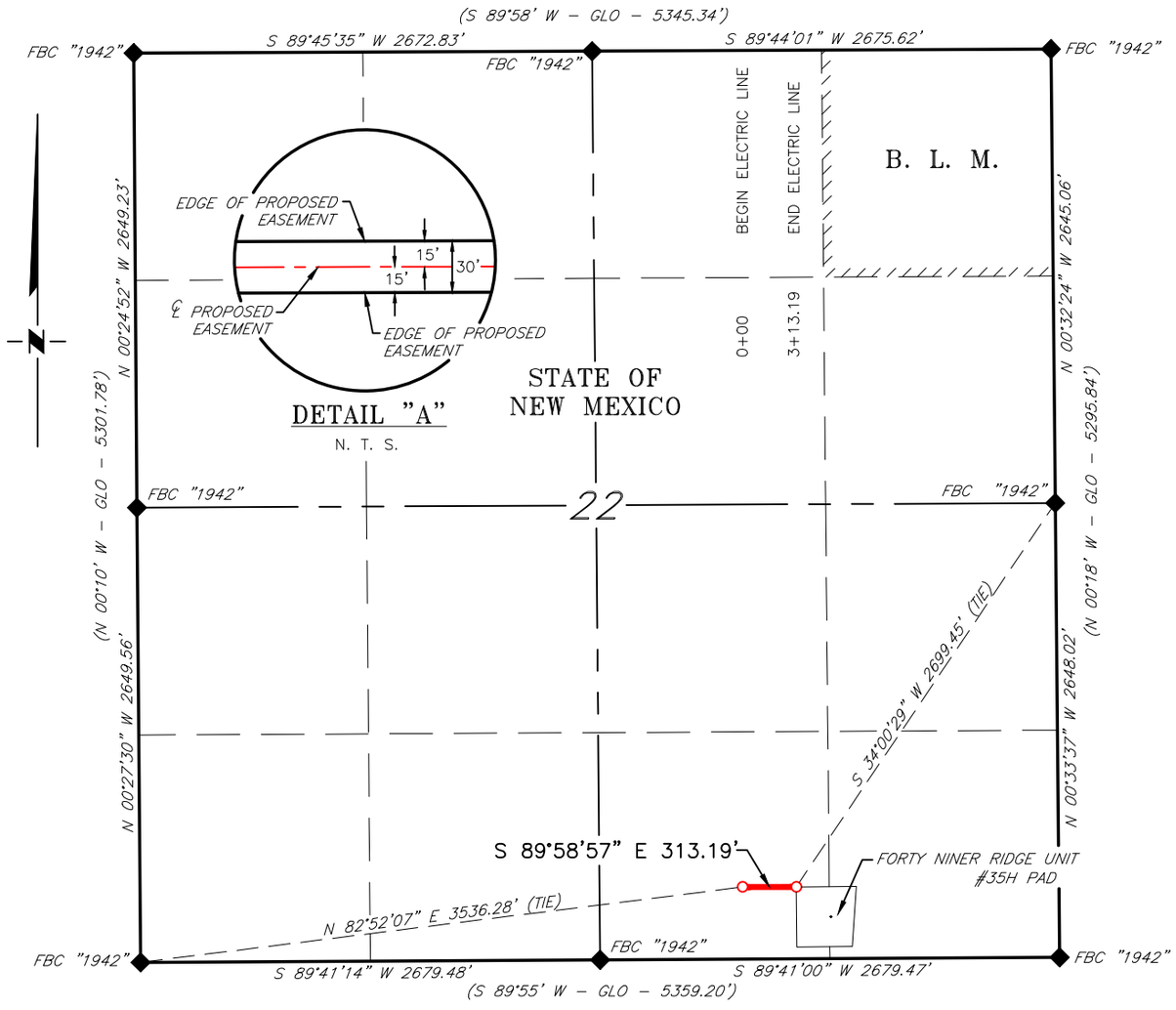
NO.	REVISION	DATE

JOB NO.: LS23020165
DWG. NO.: 23020165–6

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: AR
APPROVED BY: DEB
SHEET: 1 OF 1

STRATA PRODUCTION COMPANY
ELECTRIC FOR THE FORTY NINER RIDGE UNIT
#35H WELL LOCATION
SECTION 22, T23S, R30E
N. M. P. M., EDDY COUNTY, NEW MEXICO



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0 500' 1000'

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DISTANCES ARE HORIZ. GROUND.

LEGEND
( ) RECORD DATA – GLO
◆ FOUND MONUMENT AS NOTED
PROPOSED ELECTRIC LINE

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Dale E. Bell NM PS 14400

DALE E. BELL
NEW MEXICO
14400
08/21/2023
PROFESSIONAL SURVEYOR

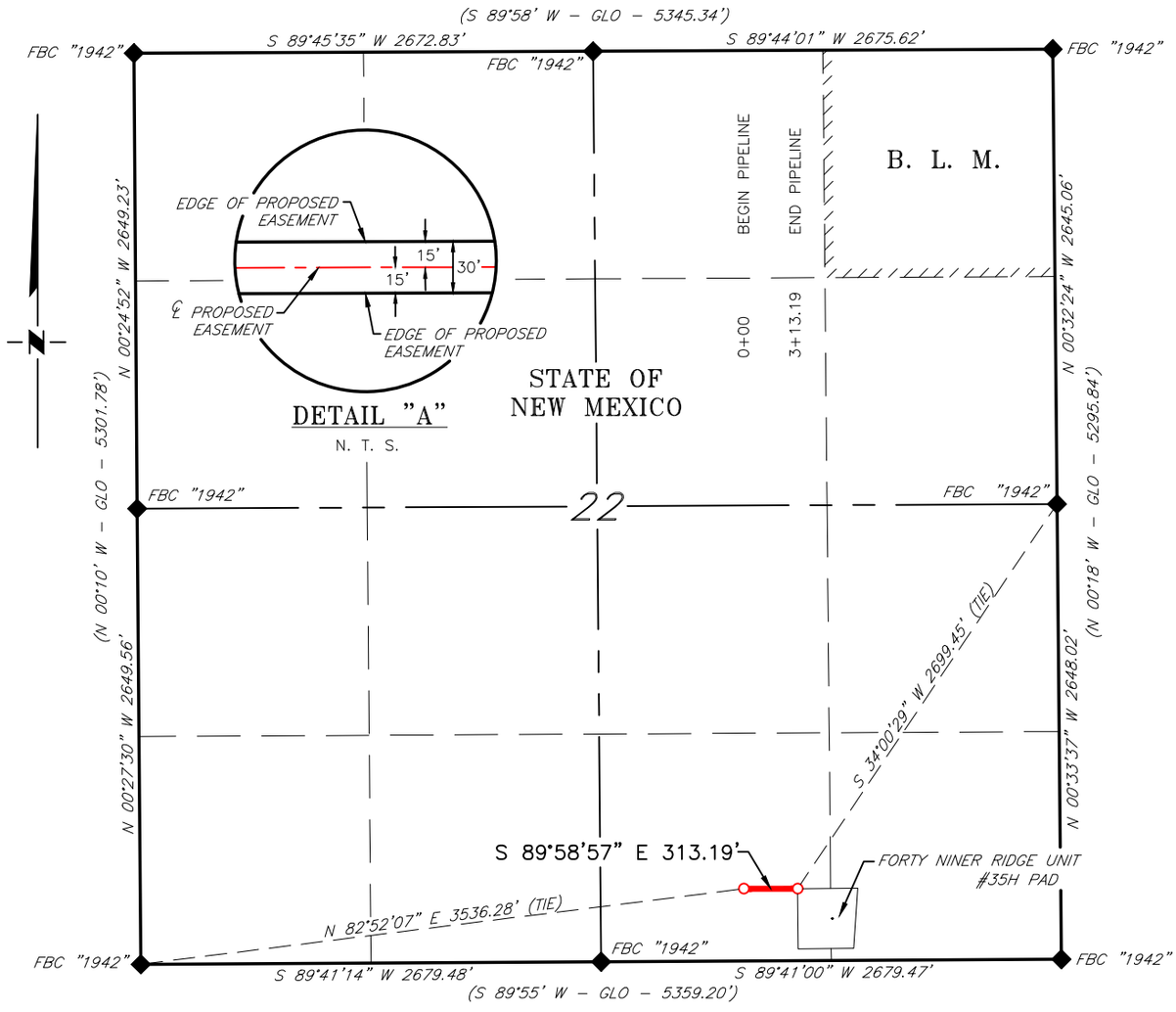
NO.	REVISION	DATE

JOB NO.: LS23020165
DWG. NO.: 23020165–7

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: AR
APPROVED BY: DEB
SHEET: 1 OF 1

STRATA PRODUCTION COMPANY
FLOWLINE FOR THE FORTY NINER RIDGE UNIT
#35H WELL LOCATION
SECTION 22, T23S, R30E
N. M. P. M., EDDY COUNTY, NEW MEXICO



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

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Dale E. Bell NM PS 14400

DALE E. BELL
NEW MEXICO
14400
08/21/2023
PROFESSIONAL SURVEYOR

NO.	REVISION	DATE

JOB NO.: LS23020165
DWG. NO.: 23020165–6

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: AR
APPROVED BY: DEB
SHEET: 1 OF 1

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

Drilling Plan Data Report
07/25/2024

APD ID: 10400093997 **Submission Date:** 10/20/2023

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT **Well Number:** 35H

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
12206069	RUSTLER	3259	157	157	SALT	NONE	N
12206070	SALADO	2786	473	473	SALT	NONE	N
12206071	BASE OF SALT	-411	3670	3670	SALT	NONE	N
12206072	LAMAR	-472	3731	3731	LIMESTONE, SHALE	NATURAL GAS, OIL	Y
12206073	BELL CANYON	-526	3785	3785	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12206074	CHERRY CANYON	-1408	4667	4667	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12206075	BRUSHY CANYON	-2706	5965	5965	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
12206076		-4360	7619	7619	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__35H_Choke_Diagram_20230818105035.pdf

BOP Diagram Attachment:

Forty_Niner_Ridge_Unit__35H_BOPE_Description_20230818105058.pdf

Forty_Niner_Ridge_Unit__35H_BOPE_20230818105156.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT **Well Number:** 35H

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	PRODUCTION	17.5	13.375	NEW	API	N	0	450	0	450	3259	2809	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	3259	-541	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	6580	0	6580	3259	-3321	6580	HCP-110	29	LT&C	2.99	3.28	DRY	1.94	DRY	2.27
4	PRODUCTION	8.5	5.5	NEW	API	Y	6580	17533	6900	7496	-3641	-4237	10953	HCP-110	20	OTHER - DWC-IC	3.41	2.22	DRY	2.93	DRY	3.04

Casing Attachments

Casing ID: 1 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__35H_Casing_Worksheet_20231019164307.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT **Well Number:** 35H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__35H_Casing_Worksheet_20231019164654.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Forty_Niner_Ridge_Unit__35H_Tapered_String_20231020083435.pdf

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__35H_Casing_Worksheet_20231019164738.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Forty_Niner_Ridge_Unit__35H_Tapered_String_20231019164815.pdf

Casing Design Assumptions and Worksheet(s):

Forty_Niner_Ridge_Unit__35H_Casing_Worksheet_20231019164833.pdf

Section 4 - Cement

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT **Well Number:** 35H

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	17533	2340	1.43	13.2	3355	25	Class H	Salt, gel, extender, LCM
PRODUCTION	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:** 35H

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	17533	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,GAMMA RAY LOG,CEMENT BOND LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,DUAL LATERAL LOG/MICRO-SPHERICALLY FOCUSED,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3360 **Anticipated Surface Pressure:** 1710

Anticipated Bottom Hole Temperature(F): 125

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Forty_Niner_Ridge_Unit__35H_H2S_Plan_20230818111537.pdf

Operator Name: STRATA PRODUCTION COMPANY

Well Name: FORTY NINER RIDGE UNIT **Well Number:** 35H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

FNRU_PAL_22_15__35H_preliminary_deviation_plan_20231019165121.pdf

FNRU__35H_WBD_Permitting_20231019165330.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

NGMP_Form_Forty_Niner_Ridge_Unit_20231019165534.pdf

Other Variance attachment:

Strata Production Company
Forty Niner Ridge Unit #35H
Section 22-T23S-R30E
SHL: 244' FSL and 1,332' FEL of Section 22
BHL: 100' FNL and 990' FEL of Section 15
Eddy County, NM

#	MD (ft)	Inclination	Azimuth (d	TVD (ft)	DX (ft)	DY (ft)	X (ft)	Y (ft)	Subsea (ft)	Segment Le	Segment In	Offset	
	0	0	0	0	0	0	686196.3	467321.4	3286	0	0	0	
	99.79	0	0	99.79	0	0	686196.3	467321.4	3186.21	99.79	0	0	
	199.58	0	0	199.58	0	0	686196.3	467321.4	3086.42	99.79	0	0	
	299.37	0	0	299.37	0	0	686196.3	467321.4	2986.63	99.79	0	0	
	399.16	0	0	399.16	0	0	686196.3	467321.4	2886.84	99.79	0	0	
	498.96	0	0	498.96	0	0	686196.3	467321.4	2787.05	99.79	0	0	
	598.75	0	0	598.75	0	0	686196.3	467321.4	2687.25	99.79	0	0	
	698.54	0	0	698.54	0	0	686196.3	467321.4	2587.46	99.79	0	0	
	798.33	0	0	798.33	0	0	686196.3	467321.4	2487.67	99.79	0	0	
	898.12	0	0	898.12	0	0	686196.3	467321.4	2387.88	99.79	0	0	
	997.91	0	0	997.91	0	0	686196.3	467321.4	2288.09	99.79	0	0	
	1097.7	0	0	1097.7	0	0	686196.3	467321.4	2188.3	99.79	0	0	
	1197.49	0	0	1197.49	0	0	686196.3	467321.4	2088.51	99.79	0	0	
	1297.28	0	0	1297.28	0	0	686196.3	467321.4	1988.72	99.79	0	0	
	1397.08	0	0	1397.08	0	0	686196.3	467321.4	1888.93	99.79	0	0	
	1496.87	0	0	1496.87	0	0	686196.3	467321.4	1789.13	99.79	0	0	
	1596.66	0	0	1596.66	0	0	686196.3	467321.4	1689.34	99.79	0	0	
	1696.45	0	0	1696.45	0	0	686196.3	467321.4	1589.55	99.79	0	0	
	1796.24	0	0	1796.24	0	0	686196.3	467321.4	1489.76	99.79	0	0	
	1896.03	0	0	1896.03	0	0	686196.3	467321.4	1389.97	99.79	0	0	
	1995.82	0	0	1995.82	0	0	686196.3	467321.4	1290.18	99.79	0	0	
	2095.61	0	0	2095.61	0	0	686196.3	467321.4	1190.39	99.79	0	0	
	2195.4	0	0	2195.4	0	0	686196.3	467321.4	1090.6	99.79	0	0	
	2295.19	0	0	2295.19	0	0	686196.3	467321.4	990.81	99.79	0	0	
	2394.99	0	0	2394.99	0	0	686196.3	467321.4	891.01	99.79	0	0	
	2494.78	0	0	2494.78	0	0	686196.3	467321.4	791.22	99.79	0	0	
	2594.57	0	0	2594.57	0	0	686196.3	467321.4	691.43	99.79	0	0	
	2694.36	0	0	2694.36	0	0	686196.3	467321.4	591.64	99.79	0	0	
	2794.15	0	0	2794.15	0	0	686196.3	467321.4	491.85	99.79	0	0	
	2893.94	0	0	2893.94	0	0	686196.3	467321.4	392.06	99.79	0	0	
	2993.73	0	0	2993.73	0	0	686196.3	467321.4	292.27	99.79	0	0	
	3093.52	0	0	3093.52	0	0	686196.3	467321.4	192.48	99.79	0	0	
	3193.31	0	0	3193.31	0	0	686196.3	467321.4	92.69	99.79	0	0	
	3293.1	0	0	3293.1	0	0	686196.3	467321.4	-7.1	99.79	0	0	
	3392.9	0	0	3392.9	0	0	686196.3	467321.4	-106.9	99.79	0	0	
	3492.69	0	0	3492.69	0	0	686196.3	467321.4	-206.69	99.79	0	0	
	3592.48	0	0	3592.48	0	0	686196.3	467321.4	-306.48	99.79	0	0	
	3692.27	0	0	3692.27	0	0	686196.3	467321.4	-406.27	99.79	0	0	
	3792.06	0	0	3792.06	0	0	686196.3	467321.4	-506.06	99.79	0	0	
	3891.85	0	0	3891.85	0	0	686196.3	467321.4	-605.85	99.79	0	0	
	3991.64	0	0	3991.64	0	0	686196.3	467321.4	-705.64	99.79	0	0	
	4091.43	0	0	4091.43	0	0	686196.3	467321.4	-805.43	99.79	0	0	
	4191.22	0	0	4191.22	0	0	686196.3	467321.4	-905.22	99.79	0	0	
	4291.02	0	0	4291.02	0	0	686196.3	467321.4	-1005.02	99.79	0	0	
	4390.81	0	0	4390.81	0	0	686196.3	467321.4	-1104.81	99.79	0	0	
	4490.6	0	0	4490.6	0	0	686196.3	467321.4	-1204.6	99.79	0	0	
	4590.39	0	0	4590.39	0	0	686196.3	467321.4	-1304.39	99.79	0	0	
	4690.18	0	0	4690.18	0	0	686196.3	467321.4	-1404.18	99.79	0	0	
	4789.97	0	0	4789.97	0	0	686196.3	467321.4	-1503.97	99.79	0	0	
	4889.76	0	0	4889.76	0	0	686196.3	467321.4	-1603.76	99.79	0	0	
	4989.55	0	0	4989.55	0	0	686196.3	467321.4	-1703.55	99.79	0	0	
	5089.34	0	0	5089.34	0	0	686196.3	467321.4	-1803.34	99.79	0	0	
	5189.13	0	0	5189.13	0	0	686196.3	467321.4	-1903.13	99.79	0	0	
	5288.93	0	0	5288.93	0	0	686196.3	467321.4	-2002.93	99.79	0	0	

5388.72	0	0	5388.72	0	0	686196.3	467321.4	-2102.72	99.79	0	0
5488.51	0	0	5488.51	0	0	686196.3	467321.4	-2202.51	99.79	0	0
5588.3	0	0	5588.3	0	0	686196.3	467321.4	-2302.3	99.79	0	0
5688.09	0	0	5688.09	0	0	686196.3	467321.4	-2402.09	99.79	0	0
5787.88	0	0	5787.88	0	0	686196.3	467321.4	-2501.88	99.79	0	0
5887.67	0	0	5887.67	0	0	686196.3	467321.4	-2601.67	99.79	0	0
5987.46	0	0	5987.46	0	0	686196.3	467321.4	-2701.46	99.79	0	0
6087.25	0	0	6087.25	0	0	686196.3	467321.4	-2801.25	99.79	0	0
6187.05	0	0	6187.05	0	0	686196.3	467321.4	-2901.05	99.79	0	0
6286.84	0	0	6286.84	0	0	686196.3	467321.4	-3000.84	99.79	0	0
6386.63	0	0	6386.63	0	0	686196.3	467321.4	-3100.63	99.79	0	0
6486.42	0	0	6486.42	0	0	686196.3	467321.4	-3200.42	99.79	0	0
6586.21	0	0	6586.21	0	0	686196.3	467321.4	-3300.21	99.79	0	0
6686	0	0	6686	0	0	686196.3	467321.4	-3400	99.79	0	0
6717.53	3.12944	70.12838	6717.51	0.81	0.29	686197.1	467321.7	-3431.51	31.53	1.56472	0.86
6748.95	5.77489	68.47327	6748.83	3.09	1.16	686199.4	467322.6	-3462.83	31.42	4.4517	3.3
6781.06	8.33211	67.38812	6780.71	6.74	2.65	686203	467324.1	-3494.71	32.12	7.05324	7.24
6812	10.43328	65.92783	6811.22	11.37	4.66	686207.7	467326.1	-3525.22	30.93	9.38196	12.28
6843.46	12.53236	64.76136	6842.05	17.05	7.27	686213.4	467328.7	-3556.05	31.46	11.48216	18.54
6875.4	14.36675	63.23471	6873.12	23.73	10.54	686220	467331.9	-3587.12	31.94	13.44844	25.96
6906.81	16.18857	61.96385	6903.41	31.07	14.35	686227.4	467335.8	-3617.41	31.41	15.2768	34.23
6937.58	17.74682	60.42417	6932.85	38.94	18.68	686235.2	467340.1	-3646.85	30.78	16.96626	43.19
6969.6	19.43554	59.02755	6963.19	47.75	23.83	686244.1	467345.2	-3677.19	32.02	18.58986	53.37
7000.86	20.897	57.3716	6992.53	56.9	29.51	686253.2	467350.9	-3706.53	31.26	20.1645	64.1
7032.27	22.46891	55.89368	7021.72	66.59	35.9	686262.9	467357.3	-3735.72	31.41	21.68114	75.65
7063.77	23.89582	54.1195	7050.68	76.75	43.02	686273.1	467364.4	-3764.68	31.51	23.17999	87.98
7095.32	25.45682	52.50974	7079.35	87.31	50.89	686283.6	467372.3	-3793.35	31.55	24.67423	101.05
7126.86	26.90606	50.6118	7107.65	98.2	59.54	686294.5	467380.9	-3821.65	31.54	26.17828	114.84
7157.35	28.46388	48.92571	7134.65	109.01	68.7	686305.3	467390.1	-3848.65	30.49	27.68248	128.85
7188.72	29.99106	46.91003	7162.03	120.37	78.96	686316.7	467400.4	-3876.03	31.37	29.2236	143.96
7220.91	31.75191	44.97471	7189.66	132.24	90.45	686328.5	467411.9	-3903.66	32.19	30.86773	160.21
7251.93	33.4224	42.83083	7215.79	143.81	102.49	686340.1	467423.9	-3929.79	31.02	32.58275	176.6
7283.68	35.35531	40.77231	7241.99	155.76	115.86	686352.1	467437.3	-3955.99	31.75	34.38471	194.13
7315.16	37.29702	38.44592	7267.35	167.64	130.23	686363.9	467451.6	-3981.35	31.48	36.32031	212.28
7346.34	39.47586	36.27029	7291.8	179.38	145.63	686375.7	467467	-4005.8	31.19	38.38132	231.05
7378.16	41.77657	33.777	7315.94	191.26	162.59	686387.6	467484	-4029.94	31.81	40.61951	251.03
7408.72	44.27801	31.49873	7338.29	202.49	180.16	686398.8	467501.6	-4052.29	30.57	43.02192	271.04
7440.83	47.02628	28.86341	7360.73	214.02	200	686410.3	467521.4	-4074.73	32.1	45.64486	292.93
7471.73	50.00428	26.4347	7381.2	224.75	220.51	686421.1	467541.9	-4095.2	30.91	48.50843	314.87
7503.32	53.18634	23.75768	7400.82	235.24	242.93	686431.5	467564.3	-4114.82	31.58	51.58806	338.16
7534.74	56.69006	21.21899	7418.87	245.06	266.69	686441.4	467588.1	-4132.87	31.42	54.93133	362.19
7566.11	60.305	18.5355	7435.26	254.14	291.84	686450.4	467613.2	-4149.26	31.37	58.49073	386.99
7597.56	64.19836	16.006	7449.9	262.39	318.41	686458.7	467639.8	-4163.9	31.45	62.24546	412.59
7629.23	68.14671	13.35879	7462.7	269.72	346.43	686466	467667.8	-4176.7	31.68	66.16692	439.05
7660.4	72.16496	10.95281	7473.28	275.88	375.08	686472.2	467696.5	-4187.28	31.16	70.1522	465.62
7692.13	76.13609	8.45198	7481.94	281.02	405.16	686477.3	467726.6	-4195.94	31.73	74.14707	493.08
7723.66	80.06	6.20007	7488.45	284.95	435.76	686481.3	467757.2	-4202.45	31.54	78.09599	520.66
7755.13	83.72013	3.93571	7492.88	287.7	466.78	686484	467788.2	-4206.88	31.46	81.88784	548.32
7786.61	87.24995	1.92038	7495.36	289.3	498.12	686485.6	467819.5	-4209.36	31.48	85.48445	576.03
7817.11	90.35185	0	7496	289.8	528.6	686486.1	467850	-4210	30.5	88.80084	602.83
7916.25	90.35193	0	7495.39	289.8	627.74	686486.1	467949.1	-4209.39	99.14	90.3519	691.4
8015.38	90.35201	0	7494.78	289.8	726.87	686486.1	468048.3	-4208.78	99.14	90.3519	782.51
8114.52	90.35209	0	7494.17	289.8	826.01	686486.1	468147.4	-4208.17	99.14	90.35218	875.37
8213.66	90.35217	0	7493.56	289.8	925.15	686486.1	468246.6	-4207.56	99.14	90.35218	969.47
8312.8	90.35224	0	7492.95	289.8	1024.28	686486.1	468345.7	-4206.95	99.14	90.35218	1064.49
8411.94	90.35232	0	7492.35	289.8	1123.42	686486.1	468444.8	-4206.35	99.14	90.35218	1160.2
8511.08	90.35239	0	7491.74	289.8	1222.56	686486.1	468544	-4205.74	99.14	90.35246	1256.44
8610.22	90.35246	0	7491.13	289.8	1321.69	686486.1	468643.1	-4205.13	99.14	90.35218	1353.09
8709.35	90.35253	0	7490.52	289.8	1420.83	686486.1	468742.2	-4204.52	99.14	90.35275	1450.08
8808.49	90.3526	0	7489.91	289.8	1519.97	686486.1	468841.4	-4203.91	99.14	90.35246	1547.35
8907.63	90.35267	0	7489.3	289.8	1619.1	686486.1	468940.5	-4203.3	99.14	90.35246	1644.84

9006.77	90.35274	0	7488.69	289.8	1718.24	686486.1	469039.6	-4202.69	99.14	90.35275	1742.51
9105.91	90.3528	0	7488.08	289.8	1817.38	686486.1	469138.8	-4202.08	99.14	90.35275	1840.34
9205.05	90.35287	0	7487.46	289.8	1916.51	686486.1	469237.9	-4201.46	99.14	90.35303	1938.3
9304.19	90.35293	0	7486.85	289.8	2015.65	686486.1	469337.1	-4200.85	99.14	90.35275	2036.38
9403.32	90.35299	0	7486.24	289.8	2114.79	686486.1	469436.2	-4200.24	99.14	90.35303	2134.55
9502.46	90.35305	0	7485.63	289.8	2213.92	686486.1	469535.3	-4199.63	99.14	90.35303	2232.81
9601.6	90.35311	0	7485.02	289.8	2313.06	686486.1	469634.5	-4199.02	99.14	90.35303	2331.15
9700.74	90.35317	0	7484.41	289.8	2412.2	686486.1	469733.6	-4198.41	99.14	90.35331	2429.54
9799.88	90.35323	0	7483.8	289.8	2511.33	686486.1	469832.7	-4197.8	99.14	90.35303	2528
9899.02	90.35328	0	7483.19	289.8	2610.47	686486.1	469931.9	-4197.19	99.14	90.35331	2626.51
9998.16	90.35333	0	7482.58	289.8	2709.61	686486.1	470031	-4196.58	99.14	90.35331	2725.06
10097.29	90.35339	0	7481.97	289.8	2808.75	686486.1	470130.2	-4195.97	99.14	90.35331	2823.66
10196.43	90.35344	0	7481.35	289.8	2907.88	686486.1	470229.3	-4195.35	99.14	90.35331	2922.29
10295.57	90.35349	0	7480.74	289.8	3007.02	686486.1	470328.4	-4194.74	99.14	90.35359	3020.95
10394.71	90.35354	0	7480.13	289.8	3106.16	686486.1	470427.6	-4194.13	99.14	90.35359	3119.65
10493.85	90.35359	0	7479.52	289.8	3205.29	686486.1	470526.7	-4193.52	99.14	90.35359	3218.37
10592.99	90.35364	0	7478.91	289.8	3304.43	686486.1	470625.8	-4192.91	99.14	90.35359	3317.11
10692.13	90.35368	0	7478.29	289.8	3403.57	686486.1	470725	-4192.29	99.14	90.35359	3415.88
10791.27	90.35373	0	7477.68	289.8	3502.7	686486.1	470824.1	-4191.68	99.14	90.35359	3514.67
10890.4	90.35378	0	7477.07	289.8	3601.84	686486.1	470923.2	-4191.07	99.14	90.35388	3613.48
10989.54	90.35381	0	7476.46	289.8	3700.98	686486.1	471022.4	-4190.46	99.14	90.35388	3712.3
11088.68	90.35385	0	7475.85	289.8	3800.11	686486.1	471121.5	-4189.85	99.14	90.35359	3811.15
11187.82	90.3539	0	7475.23	289.8	3899.25	686486.1	471220.7	-4189.23	99.14	90.35388	3910
11286.96	90.35394	0	7474.62	289.8	3998.39	686486.1	471319.8	-4188.62	99.14	90.35416	4008.87
11386.1	90.35397	0	7474.01	289.8	4097.52	686486.1	471418.9	-4188.01	99.14	90.35388	4107.76
11485.24	90.354	0	7473.4	289.8	4196.66	686486.1	471518.1	-4187.4	99.14	90.35388	4206.65
11584.37	90.35404	0	7472.78	289.8	4295.8	686486.1	471617.2	-4186.78	99.14	90.35416	4305.56
11683.51	90.35407	0	7472.17	289.8	4394.93	686486.1	471716.3	-4186.17	99.14	90.35388	4404.48
11782.65	90.3541	0	7471.56	289.8	4494.07	686486.1	471815.5	-4185.56	99.14	90.35416	4503.4
11881.79	90.35413	0	7470.95	289.8	4593.21	686486.1	471914.6	-4184.95	99.14	90.35416	4602.34
11980.93	90.35416	0	7470.33	289.8	4692.34	686486.1	472013.7	-4184.33	99.14	90.35416	4701.28
12080.07	90.35419	0	7469.72	289.8	4791.48	686486.1	472112.9	-4183.72	99.14	90.35416	4800.24
12179.21	90.35423	0	7469.11	289.8	4890.62	686486.1	472212	-4183.11	99.14	90.35416	4899.2
12278.34	90.35425	0	7468.49	289.8	4989.75	686486.1	472311.2	-4182.49	99.14	90.35444	4998.16
12377.48	90.35427	0	7467.88	289.8	5088.89	686486.1	472410.3	-4181.88	99.14	90.35416	5097.14
12476.62	90.35429	0	7467.27	289.8	5188.03	686486.1	472509.4	-4181.27	99.14	90.35416	5196.11
12575.76	90.35432	0	7466.66	289.8	5287.16	686486.1	472608.6	-4180.66	99.14	90.35444	5295.1
12674.9	90.35434	0	7466.04	289.8	5386.3	686486.1	472707.7	-4180.04	99.14	90.35444	5394.09
12774.04	90.35435	0	7465.43	289.8	5485.44	686486.1	472806.8	-4179.43	99.14	90.35416	5493.09
12873.18	90.35438	0	7464.82	289.8	5584.57	686486.1	472906	-4178.82	99.14	90.35444	5592.09
12972.32	90.35439	0	7464.2	289.8	5683.71	686486.1	473005.1	-4178.2	99.14	90.35444	5691.09
13071.45	90.35441	0	7463.59	289.8	5782.85	686486.1	473104.3	-4177.59	99.14	90.35444	5790.1
13170.59	90.35442	0	7462.98	289.8	5881.98	686486.1	473203.4	-4176.98	99.14	90.35444	5889.12
13269.73	90.35444	0	7462.36	289.8	5981.12	686486.1	473302.5	-4176.36	99.14	90.35444	5988.14
13368.87	90.35445	0	7461.75	289.8	6080.26	686486.1	473401.7	-4175.75	99.14	90.35444	6087.16
13468.01	90.35446	0	7461.14	289.8	6179.39	686486.1	473500.8	-4175.14	99.14	90.35444	6186.19
13567.15	90.35447	0	7460.52	289.8	6278.53	686486.1	473599.9	-4174.52	99.14	90.35444	6285.22
13666.29	90.35448	0	7459.91	289.8	6377.67	686486.1	473699.1	-4173.91	99.14	90.35444	6384.25
13765.42	90.35448	0	7459.3	289.8	6476.8	686486.1	473798.2	-4173.3	99.14	90.35444	6483.28
13864.56	90.35449	0	7458.68	289.8	6575.94	686486.1	473897.3	-4172.68	99.14	90.35444	6582.32
13963.7	90.3545	0	7458.07	289.8	6675.08	686486.1	473996.5	-4172.07	99.14	90.35444	6681.37
14062.84	90.3545	0	7457.46	289.8	6774.21	686486.1	474095.6	-4171.46	99.14	90.35472	6780.41
14161.98	90.3545	0	7456.84	289.8	6873.35	686486.1	474194.8	-4170.84	99.14	90.35444	6879.46
14261.12	90.35451	0	7456.23	289.8	6972.49	686486.1	474293.9	-4170.23	99.14	90.35444	6978.51
14360.26	90.35451	0	7455.62	289.8	7071.62	686486.1	474393	-4169.62	99.14	90.35444	7077.56
14459.39	90.3545	0	7455	289.8	7170.76	686486.1	474492.2	-4169	99.14	90.35444	7176.61
14558.53	90.3545	0	7454.39	289.8	7269.9	686486.1	474591.3	-4168.39	99.14	90.35472	7275.67
14657.67	90.3545	0	7453.78	289.8	7369.03	686486.1	474690.4	-4167.78	99.14	90.35444	7374.73
14756.81	90.35449	0	7453.16	289.8	7468.17	686486.1	474789.6	-4167.16	99.14	90.35444	7473.79
14855.95	90.35448	0	7452.55	289.8	7567.31	686486.1	474888.7	-4166.55	99.14	90.35444	7572.86
14955.09	90.35448	0	7451.94	289.8	7666.45	686486.1	474987.9	-4165.94	99.14	90.35444	7671.92

15054.23	90.35447	0	7451.32	289.8	7765.58	686486.1	475087	-4165.32	99.14	90.35472	7770.99
15153.36	90.35445	0	7450.71	289.8	7864.72	686486.1	475186.1	-4164.71	99.14	90.35444	7870.06
15252.5	90.35445	0	7450.1	289.8	7963.86	686486.1	475285.3	-4164.1	99.14	90.35444	7969.13
15351.64	90.35443	0	7449.48	289.8	8062.99	686486.1	475384.4	-4163.48	99.14	90.35444	8068.2
15450.78	90.35442	0	7448.87	289.8	8162.13	686486.1	475483.5	-4162.87	99.14	90.35444	8167.27
15549.92	90.35441	0	7448.26	289.8	8261.27	686486.1	475582.7	-4162.26	99.14	90.35444	8266.35
15649.06	90.35439	0	7447.64	289.8	8360.4	686486.1	475681.8	-4161.64	99.14	90.35416	8365.42
15748.2	90.35437	0	7447.03	289.8	8459.54	686486.1	475780.9	-4161.03	99.14	90.35444	8464.5
15847.33	90.35435	0	7446.42	289.8	8558.68	686486.1	475880.1	-4160.42	99.14	90.35444	8563.58
15946.47	90.35433	0	7445.8	289.8	8657.81	686486.1	475979.2	-4159.8	99.14	90.35444	8662.66
16045.61	90.35431	0	7445.19	289.8	8756.95	686486.1	476078.4	-4159.19	99.14	90.35416	8761.74
16144.75	90.35429	0	7444.58	289.8	8856.09	686486.1	476177.5	-4158.58	99.14	90.35444	8860.83
16243.89	90.35426	0	7443.96	289.8	8955.22	686486.1	476276.6	-4157.96	99.14	90.35416	8959.91
16343.03	90.35424	0	7443.35	289.8	9054.36	686486.1	476375.8	-4157.35	99.14	90.35416	9059
16442.17	90.35421	0	7442.74	289.8	9153.5	686486.1	476474.9	-4156.74	99.14	90.35444	9158.08
16541.3	90.35419	0	7442.13	289.8	9252.63	686486.1	476574	-4156.13	99.14	90.35416	9257.17
16640.44	90.35416	0	7441.51	289.8	9351.77	686486.1	476673.2	-4155.51	99.14	90.35416	9356.26
16739.58	90.35413	0	7440.9	289.8	9450.91	686486.1	476772.3	-4154.9	99.14	90.35416	9455.35
16838.72	90.3541	0	7440.29	289.8	9550.04	686486.1	476871.4	-4154.29	99.14	90.35416	9554.44
16937.86	90.35406	0	7439.68	289.8	9649.18	686486.1	476970.6	-4153.68	99.14	90.35388	9653.53
17037	90.35403	0	7439.06	289.8	9748.32	686486.1	477069.7	-4153.06	99.14	90.35416	9752.62
17136.14	90.354	0	7438.45	289.8	9847.45	686486.1	477168.9	-4152.45	99.14	90.35388	9851.72
17235.28	90.35396	0	7437.84	289.8	9946.59	686486.1	477268	-4151.84	99.14	90.35416	9950.81
17334.41	90.35392	0	7437.23	289.8	10045.73	686486.1	477367.1	-4151.23	99.14	90.35388	10049.91
17433.55	90.35388	0	7436.61	289.8	10144.86	686486.1	477466.3	-4150.61	99.14	90.35388	10149
17532.69	90.35384	0	7436	289.8	10244	686486.1	477565.4	-4150	99.14	90.35388	10248.1

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Strata Production Company
WELL NAME & NO.:	Forty Niner Ridge Unit 35H
LOCATION:	Sec 22-23S-30E-NMP
COUNTY:	Eddy County, New Mexico

COA

H_2S	○ No		○ Yes	
Potash / WIPP	○ None	○ Secretary	◉ R-111-Q	☐ Open Annulus
	3-String Design: Intermediate Casing Designed for Frac Loads			☐ WIPP
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	◉ Conventional	○ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☑ Unit
Waste Prev.	○ Self-Certification	○ Waste Man. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☐ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Break Testing
	☐ Four-String	☐ Offline Cementing	☐ 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.

Approval Date: 08/02/2024

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)**

 Approval Date: 08/02/2024

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.

Approval Date: 08/02/2024

Strata Production Company
Forty Niner Ridge Unit #35H
Section 22-T23S-R30E
SHL: 244' FSL & 1,332 FEL of Sec 22
BHL: 100' FNL & 990' FEL 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 (H_2S).

B. The proper use and maintenance of personal protective equipment and life support systems.

C. The proper use of H_2S 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 H_2S 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 H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

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

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. H_2S detection and monitoring equipment:

2 - portable H_2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H_2S 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 H_2S 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 H_2S service.

G. Communication:
Company vehicles equipped with cellular telephone.

W A R N I N G

YOU ARE ENTERING AN H_2S 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**

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Forty Niner Ridge Unit #35H
Sec 22-T23S-R30E
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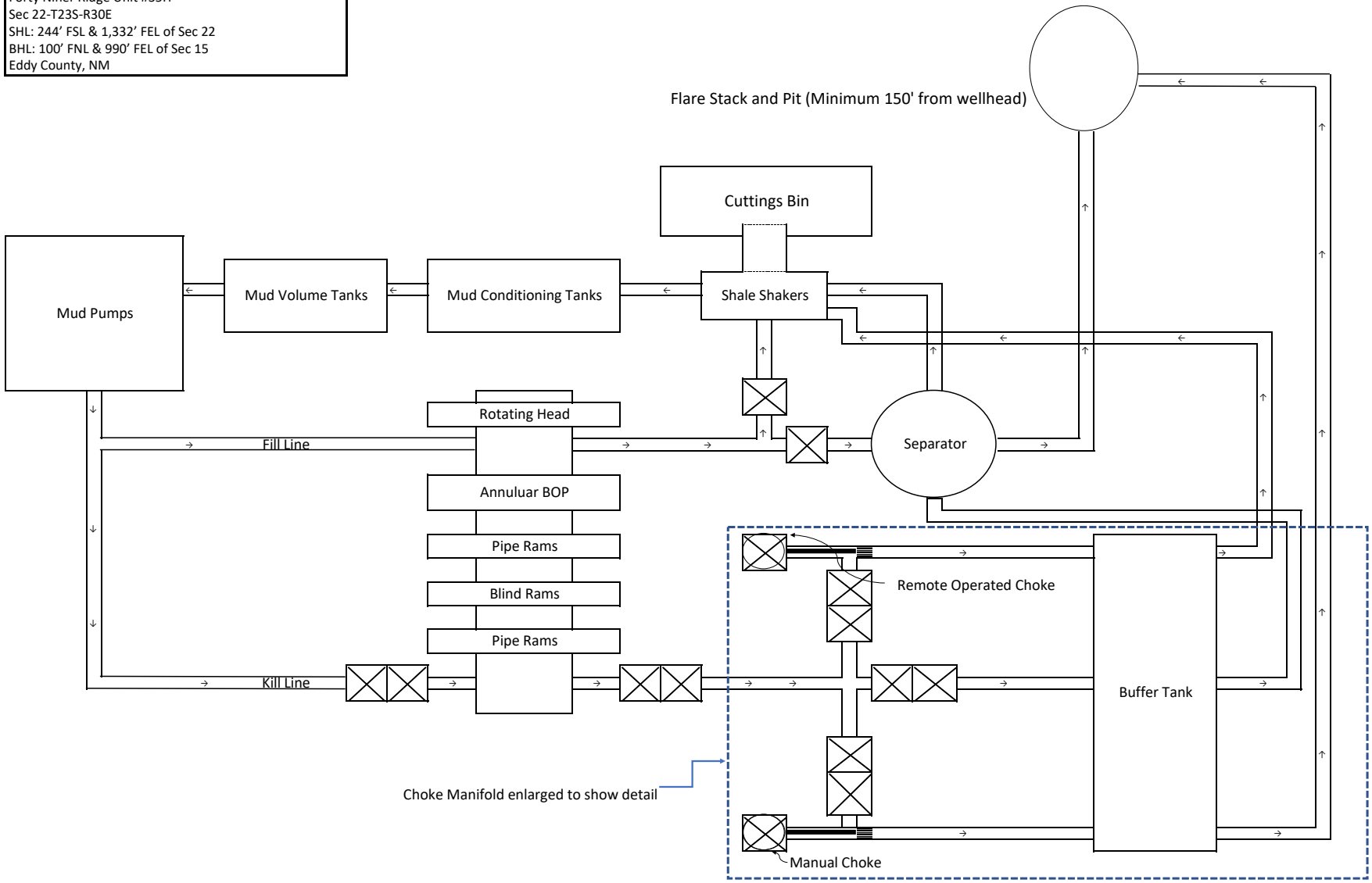

STRATA PRODUCTION COMPANY

Forty Niner Ridge Unit #35H
Sec 22-T23S-R30E
SHL: 244' FSL & 1,332' FEL of Sec 22
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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 370333

CONDITIONS

Operator: STRATA PRODUCTION CO P.O. Box 1030 Roswell, NM 882021030	OGRID: 21712
	Action Number: 370333
	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 requirement of R-111-Q.	8/27/2024