Form 3160-3 FORM APPROVED (June 2015) OMB No. 1004-0137 Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM070951X **BUREAU OF LAND MANAGEMENT** APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. la. Type of work: ✓ DRILL REENTER 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone FNRU FEDERAL COM 22 23 PPI 2. Name of Operator 9. API Well No. STRATA PRODUCTION COMPANY 30-015-50196 3a Address 10. Field and Pool, or Exploratory 3b. Phone No. (include area code) P O BOX 1030, ROSWELL, NM 88202-1030 (575) 622-1127 FORTY NINER RIDGE UNIT/DELAWARE 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 22/T23S/R30E/NMP At surface SESE / 475 FSL / 823 FEL / LAT 32.2845078 / LONG -103.8629372 At proposed prod. zone SESE / 330 FSL / 100 FEL / LAT 32 28411 / LONG -103.843278 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 20 miles **EDDY** NM 15 Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 475 feet location to nearest property or lease line, ft. 400.0 (Also to nearest drig. unit line, if any) 18 Distance from proposed location* 19 Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 306 feet 7465 feet / 13172 feet FED: NM 1538 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Approximate date work will start* 23. Estimated duration 3264 feet 05/04/2022 60 days 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 2. A Drilling Plan. Item 20 above). 3 A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 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 (Electronic Submission) LUPE RINCON-GARCIA / Ph: (575) 622-1127 02/25/2022 Title Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 11/17/2022 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field 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.

ADDROVED WITH CONDITIONS

Approval Date: 11/17/2022

*(Instructions on page 2)

District I
(625 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

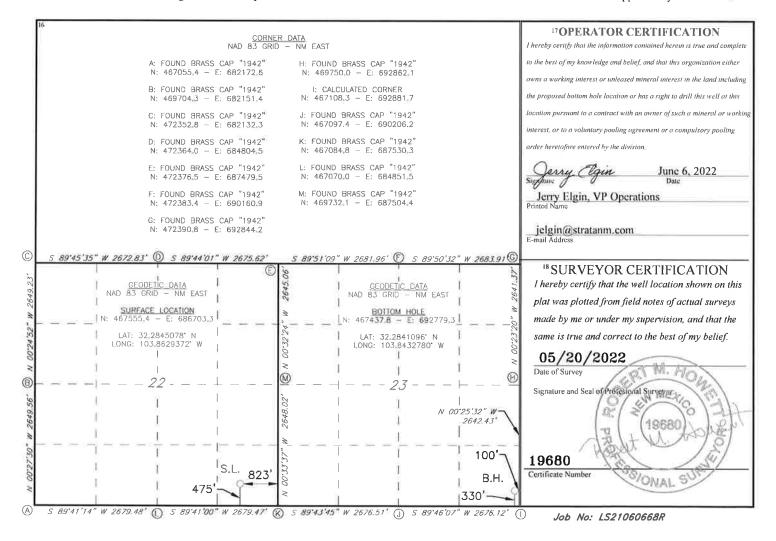
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

			L LL L	OCMITO	IN AND ACI	CEAGE DEDIC	ATIONILA	1 1		
00.045			² Pool Code		³ Pool Name					
30-015-	-50196			24750		FORTY NINER RIDGE DELAWARE				
⁴ Property Co	de				5 Property N	ame			6 Well Number	
333580	333580 FNRU FEDERAL COM 22 23 PPI								16H	
7 OGRID 1	NO.				8 Operator N	ame			9 Elevation	
21712	2			STRATA	PRODUCT	ION COMPAN	Y		3264'	
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		475	SOUTH	823	EAS	r EDDY	
			11]	Bottom H	ole Location	If Different Fro	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
P	23	23S	30E		330	SOUTH	100	EAS	r EDDY	
12 Dedicated Acres	13 Joint	or Infill 14 (Consolidation	Code 15 C	Order No.		1			
200										

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.



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	OGRID:	21712	Date: 09 / 14 / 2021							
II. Type: X Original] Amendment	t due to 🗆 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NM	AC 🗆 Other	r _k .			
If Other, please describe:										
III. Well(s): Provide the be recompleted from a s.	e following in ingle well pad	formation for each r d or connected to a c	new or recomple entral delivery p	eted well or set of point.	wells prop	osed to be d	drilled or proposed to			
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticip Gas MC		Anticipated Produced Water BBL/D			
Roadrunner Federal PAD 7H		SEC 25 / T23S / R30E	330 FSL/660 F	EL 550	300	950				
IV. Central Delivery Point Name: Roadrunner Federal PAD 7H [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		Initial Flow Back Date	First Production Date			
Roadrunner Federal PAD 7H		01/05/2022	01/23/2022	02/02/2022	02/	/08/2022	02/11/2022			
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, 202	22

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

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

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF		

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
				7

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 ar	nticipated natural gas
production volume from the well prior to the date of first	production.		

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

П	Attach One	erator's plan	to manage prod	luction	in response	to the	increased l	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:

Qoperator 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: Jerry Egin
Printed Name: Jerry Elgin
Tide: Vice President Operations
E-mail Address: jelgin@ stratanm. com
Date: 09/14/2021
Phone: 575-622-127
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

Description for Sections:

- VI. Separation Equipment
- VII. Operational Practices
- VIII. Best Management Practices
- VI. Separation equipment will be sized by stated manufacture daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs and VRU's will be sized to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Strata Production Company (SPC) will take following actions to comply with the regulations listed in 19.15.27.8
 - A. Venting and flaring of natural gas

 SPC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2

 NMAC, of natural gas through venting and flaring. SPC will ensure that well(s) will be
 connected to a natural gas gathering system with sufficient capacity to transport natural gas. If
 there is not adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering
 system is available.
 - B. Venting and flaring during drilling operations
 All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. Venting and flaring during completion or recompletion operations

 During completion operations any natural gas brought to surface will be flared. Immediately
 following completions operations, all well flow will be directed to permanent separation
 equipment. Produced natural gas from separation equipment will be sent to sales. It is not
 anticipated that gas will not meet pipeline standards. However, if natural gas does not meet
 gathering pipeline quality specifications, SPC will flare the natural gas for 60 days or until the
 natural gas meets the pipeline quality specifications, whichever is sooner. SPC will ensure that
 the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas

sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as it is confirmed to be within pipeline specifications.

- D. Venting and flaring during production operations

 Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D. (1) through (4). If there is not adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
- E. Performance standards

 SPC will comply with the performance standards requirements and provisions listed in
 19.15.27.8 E. (1) through (8). All equipment will be designed and sized to handle maximum
 anticipated pressures and throughputs to minimize the waste. Production storage tanks
 constructed after May 25, 2021, will be equipped with automatic gauging system. Flares
 constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot.
 Flares will be located at least 100' from the well and storage tanks unless otherwise approved
 by the division. SPC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with
 frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as
 quickly and safely as feasible to minimize waste.
- F. Measurement or estimation of vented and flared natural gas

 The volume of natural gas that is vented or flared as the result of malfunction or emergency
 during drilling and completions operations will be estimated. The volume of natural gas that is
 vented, flared, or beneficially used during production operations, will be measured or
 estimated. SPC will install equipment to measure the volume of natural gas flared from
 existing process piping or a flowline piped from equipment such as high-pressure separators,
 heater treaters, or vapor recovery units associated with a well or facility associated with a well
 authorized by an APD issued after May 25, 2021, that has an average daily production greater
 than 60 mcf per day. If metering is not practicable due to circumstances such as low flow rate
 or low pressure venting and flaring, SPC will estimate the volume of vented or flared natural
 gas. Measuring equipment will conform to industry standards and will not be designed or
 equipped with a manifold that allows the diversion of natural gas around the metering element
 except for the sole purpose of inspecting and servicing the measurement equipment.
- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRU's all gas normally routed to the VRU will be routed to flare to eliminate venting.

STRATA PRODUCTION COMPANY

FNRU Federal Com 22 23 PPI 16H Section 22-T23S-R30E

SHL: 475' FSL & 823' FEL of Section 22 BHL: 330' FSL & 100' FEL of Section 23

CASING DESIGN ASSUMPTIONS & WORKSHEET

	Casing Interval									
<u>Hole</u>			Csg				<u>SF</u>	<u>SF</u>	SF Joint	SF Body
<u>Size</u>	<u>From</u>	<u>To</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	Connection	<u>Collapse</u>	<u>Burst</u>	<u>Tension</u>	<u>Tension</u>
17.5	0	450	13.375	48	API	STC	3.95	7.39	14.9	25.0
12.25	0	3,800	9.625	40	API	LTC	1.56	2.00	4.20	2.98
8.75	0	13,172	5.5	20	API	Buttress	1.94	1.85	2.48	2.53
BLM Minii	BLM Minimum SF					1.125	1.00	1.60	1.60	

	Y or N
Is casing new? If used, attach certificate as required in Onshore Order #1.	Υ
Is casing API approved? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes, attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not, provide justifications (loading assumptions, casing design criteria).	Υ
Will the pipe be kept at a minimum of 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	NA
Is well within the designated 4 string boundary?	NA
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	NA
Is well located in R-111-P and SOPA?	Υ
If yes, are the first 3 strings cemented to the surface?	Υ
Is 2nd string set 100' to 600' below the base of salt?	Υ
Is well located in high Cave/Karst?	Υ
If yes, are there two strings cemented to the surface?	Υ
If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	NA

Received by 051:1921/19/2022 3:45:30 Strata Production Company

Released to Imaging: 12/27/2022 10:31:14 AM Vertical Section at 89.74° (100 usft/in)



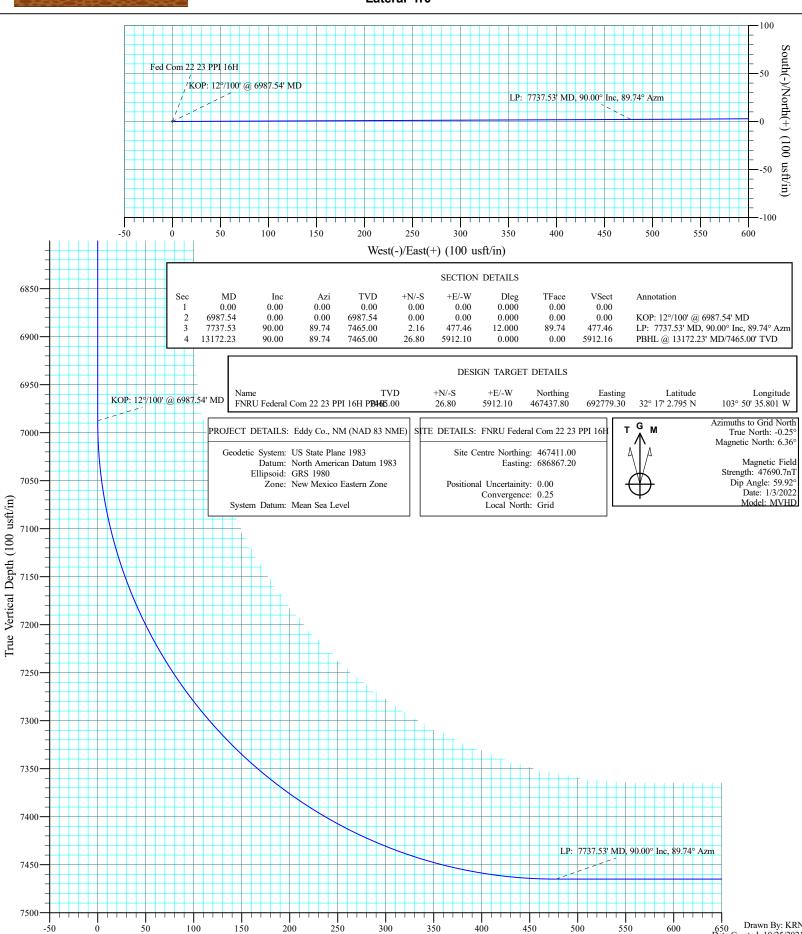
FNRU Federal Com 22 23 PPI 16H Eddy Co., NM (NAD 83 NME) Job No. WT-22-*** Lateral 1r0



650 Date Created: 10/25/2021

Date Revised: 10/25/2021

File: Strata Production - FNRU Federal Com 22 23 PPI 16H - Lateral 1r0 Curve.wpc



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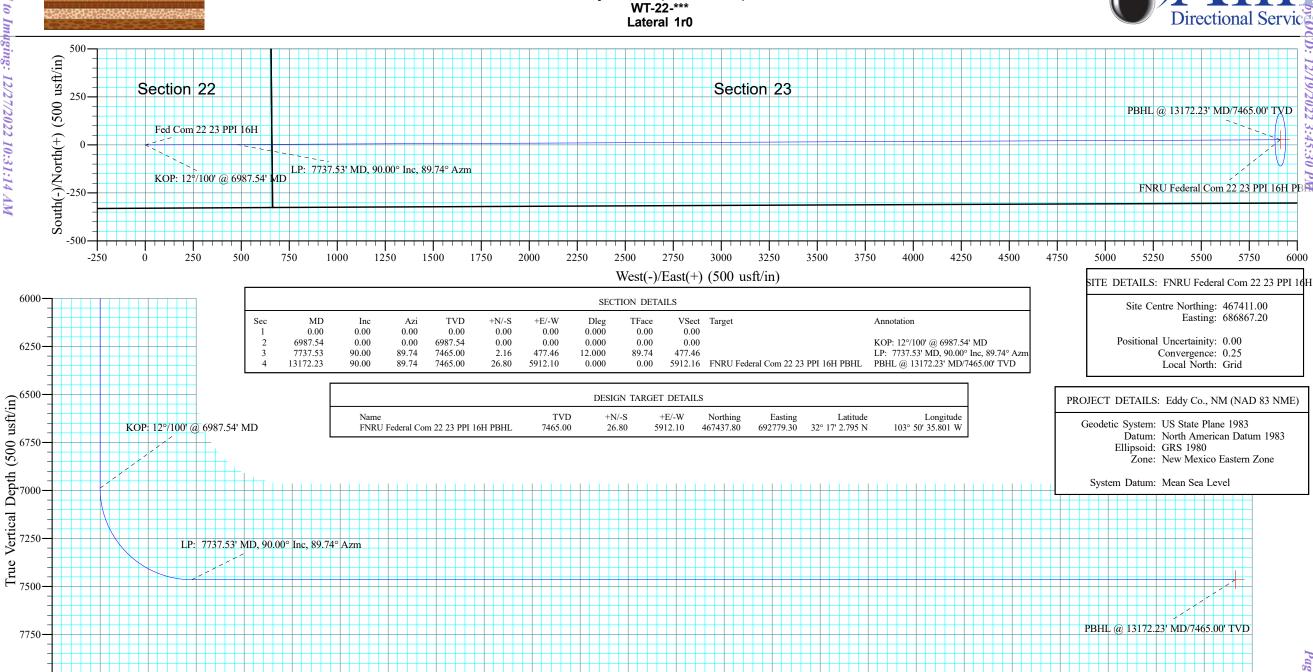
1500

1750

Strata Production Company

FNRU Federal Com 22 23 PPI 16H Eddy Co., NM (NAD 83 NME) WT-22-***





3250

Vertical Section at 89.74° (500 usft/in)

3500

4250

0 60000 prawn By: N Date Created: 10/25/2021

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Aim Directional Services, LLC



Survey Report



Company: Strata Production Company Project: Eddy Co., NM (NAD 83 NME) Site: FNRU Federal Com 22 23 PPI 16H

Well: Fed Com 22 23 PPI 16H

Wellbore: Planning Lateral 1r0 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Site FNRU Federal Com 22 23 PPI 16H Well @ 3285.00usft (Assumed 25' RKB)

Well @ 3285.00usft (Assumed 25' RKB)

Minimum Curvature

RTOC- EDM 5000.1 Single User Db

Eddy Co., NM (NAD 83 NME) **Project**

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

FNRU Federal Com 22 23 PPI 16H Site

Northing: 467,411.00 usft Site Position: Latitude: 32° 17' 2.792 N Easting: 686,867.20 usft 103° 51' 44.672 W From: Мар Longitude: **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.25°

Well Fed Com 22 23 PPI 16H

Well Position +N/-S 0.00 usft Latitude: 32° 17' 2.792 N Northing: 467,411.00 usft +E/-W 0.00 usft Easting: 686,867.20 usfl Longitude: 103° 51' 44.672 W

Position Uncertainty 0.00 usft Wellhead Elevation: usf Ground Level: 3,260.00 usft

Wellbore Planning

Declination **Magnetics Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) **MVHD** 1/3/2022 6.61 59.92 47,690.749

Lateral 1r0 Design

Audit Notes:

Version: Phase: **PROTOTYPE** 0.00 Tie On Depth:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.00 0.00 0.00 89.74

Survey Tool Program Date 10/25/2021

> From To

(usft) (usft) Survey (Wellbore) **Tool Name** Description

0.00 13,172.23 Lateral 1r0 (Planning) B001Mb MWD+HRGM OWSG MWD + HRGM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.000	0.000	0.000
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.000	0.000	0.000
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.000	0.000	0.000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.000	0.000	0.000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.000	0.000
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.000	0.000	0.000
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.000	0.000	0.000
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.000	0.000
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.000	0.000	0.000

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Aim Directional Services, LLC



Survey Report



Company:Strata Production CompanyProject:Eddy Co., NM (NAD 83 NME)Site:FNRU Federal Com 22 23 PPI 16H

Well: Fed Com 22 23 PPI 16H

Wellbore: Planning
Design: Lateral 1r0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Site FNRU Federal Com 22 23 PPI 16H Well @ 3285.00usft (Assumed 25' RKB) Well @ 3285.00usft (Assumed 25' RKB)

Grid

Minimum Curvature

RTOC- EDM 5000.1 Single User Db

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.000	0.000	0.000
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.000	0.000	0.000
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.000	0.000	0.000
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.000	0.000	0.000
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.000	0.000	0.000
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.000	0.000	0.000
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.000	0.000	0.000
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.000	0.000	0.000
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.000	0.000	0.000
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.000	0.000	0.000
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.000	0.000	0.000
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.000	0.000	0.000
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.000	0.000	0.000
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.000	0.000	0.000
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.000	0.000	0.000
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.000	0.000	0.000
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.000	0.000	0.000
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.000	0.000	0.000
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.000	0.000	0.000
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.000	0.000	0.000
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.000	0.000	0.000
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.000	0.000	0.000
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.000	0.000	0.000
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.000	0.000	0.000
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.000	0.000	0.000
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.000	0.000	0.000
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.000	0.000	0.000
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.000	0.000	0.000
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.000	0.000	0.000
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.000	0.000	0.000
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.000	0.000	0.000
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.000	0.000	0.000
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.000	0.000	0.000
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.000	0.000	0.000
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.000	0.000	0.000
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.000	0.000	0.000
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.000	0.000	0.000
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.000	0.000	0.000
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.000	0.000	0.000
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.000	0.000	0.000
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.000	0.000	0.000
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.000	0.000	0.000
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.000	0.000	0.000
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.000	0.000	0.000

Aim Directional Services, LLC



Survey Report



Company: Strata Production Company
Project: Eddy Co., NM (NAD 83 NME)
Site: FNRU Federal Com 22 23 PPI 16H

Well: Fed Com 22 23 PPI 16H

Wellbore: Planning
Design: Lateral 1r0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Site FNRU Federal Com 22 23 PPI 16H Well @ 3285.00usft (Assumed 25' RKB) Well @ 3285.00usft (Assumed 25' RKB)

Minimum Curvature

RTOC- EDM 5000.1 Single User Db

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.000	0.000	0.000
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.000	0.000	0.000
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.000	0.000	0.000
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.000	0.000	0.000
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.000	0.000	0.000
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.000	0.000	0.000
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.000	0.000	0.000
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.000	0.000	0.000
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.000	0.000	0.000
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.000	0.000	0.000
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.000	0.000	0.000
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.000	0.000	0.000
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.000	0.000	0.000
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.000	0.000	0.000
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.000	0.000	0.000
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.000	0.000	0.000
6,987.54	0.00	0.00	6,987.54	0.00	0.00	0.00	0.000	0.000	0.000
	00' @ 6987.54								
7,000.00	1.50	89.74	7,000.00	0.00	0.16	0.16	12.000	12.000	0.000
7,025.00	4.50	89.74	7,024.96	0.01	1.47	1.47	12.000	12.000	0.000
7,050.00	7.50	89.74	7,049.82	0.02	4.08	4.08	12.000	12.000	0.000
7,075.00	10.50	89.74	7,074.51	0.04	7.99	7.99	12.000	12.000	0.000
7,100.00	13.50	89.74	7,098.96	0.06	13.18	13.18	12.000	12.000	0.000
7,125.00	16.50	89.74	7,123.11	0.09	19.65	19.65	12.000	12.000	0.000
7,150.00	19.50	89.74	7,146.88	0.12	27.37	27.37	12.000	12.000	0.000
7,175.00	22.50	89.74	7,170.22	0.16	36.33	36.33	12.000	12.000	0.000
7,200.00	25.50	89.74	7,193.06	0.21	46.50	46.50	12.000	12.000	0.000
7,225.00	28.50	89.74	7,215.33	0.26	57.84	57.84	12.000	12.000	0.000
7,250.00	31.50	89.74	7,236.98	0.32	70.34	70.34	12.000	12.000	0.000
7,275.00	34.50	89.74	7,257.95	0.38	83.95	83.95	12.000	12.000	0.000
7,300.00	37.50	89.74	7,278.17	0.45	98.64	98.64	12.000	12.000	0.000
7,325.00	40.50	89.74	7,297.60	0.52	114.37	114.37	12.000	12.000	0.000
7,350.00	43.50	89.74	7,316.18	0.59	131.10	131.10	12.000	12.000	0.000
7,375.00	46.50	89.74	7,333.85	0.67	148.77	148.77	12.000	12.000	0.000
7,400.00	49.50	89.74	7,350.58	0.76	167.35	167.35	12.000	12.000	0.000
7,425.00	52.50	89.74	7,366.31	0.85	186.77	186.77	12.000	12.000	0.000
7,450.00	55.50	89.74	7,381.01	0.94	206.99	207.00	12.000	12.000	0.000
7,475.00	58.50	89.74	7,394.62	1.03	227.96	227.96	12.000	12.000	0.000
7,500.00	61.50	89.74	7,407.12	1.13	249.60	249.61	12.000	12.000	0.000
7,525.00	64.50	89.74	7,418.47	1.23	271.88	271.88	12.000	12.000	0.000
7,550.00	67.50	89.74	7,428.64	1.34	294.71	294.71	12.000	12.000	0.000
7,575.00	70.50	89.74	7,437.60	1.44	318.05	318.05	12.000	12.000	0.000
7,600.00	73.50	89.74	7,445.33	1.55	341.82	341.82	12.000	12.000	0.000

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Aim Directional Services, LLC



Survey Report



Company: Strata Production Company Project: Eddy Co., NM (NAD 83 NME) Site: FNRU Federal Com 22 23 PPI 16H

Well: Fed Com 22 23 PPI 16H

Wellbore: Planning

Design: Lateral 1r0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Site FNRU Federal Com 22 23 PPI 16H Well @ 3285.00usft (Assumed 25' RKB)

Well @ 3285.00usft (Assumed 25' RKB)

Minimum Curvature

RTOC- EDM 5000.1 Single User Db

Plann	ed Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	7,625.00	76.50	89.74	7,451.80	1.66	365.96	365.97	12.000	12.000	0.000
	7,650.00	79.50	89.74	7,457.00	1.77	390.41	390.42	12.000	12.000	0.000
	7,675.00	82.50	89.74	7,460.91	1.88	415.10	415.11	12.000	12.000	0.000
	7,700.00	85.50	89.74	7,463.53	1.99	439.96	439.97	12.000	12.000	0.000
	7,725.00	88.50	89.74	7,464.84	2.11	464.93	464.93	12.000	12.000	0.000
	7,737.53	90.00	89.74	7,465.00	2.16	477.46	477.46	12.000	12.000	0.000
	LP: 7737.5	53' MD, 90.00°	Inc, 89.74° Az	zm						
	7,800.00	90.00	89.74	7,465.00	2.45	539.92	539.93	0.000	0.000	0.000
	7,900.00	90.00	89.74	7,465.00	2.90	639.92	639.93	0.000	0.000	0.000
	8,000.00	90.00	89.74	7,465.00	3.35	739.92	739.93	0.000	0.000	0.000
	8,100.00	90.00	89.74	7,465.00	3.81	839.92	839.93	0.000	0.000	0.000
	8,200.00	90.00	89.74	7,465.00	4.26	939.92	939.93	0.000	0.000	0.000
	8,300.00	90.00	89.74	7,465.00	4.71	1,039.92	1,039.93	0.000	0.000	0.000
	8,400.00	90.00	89.74	7,465.00	5.17	1,139.92	1,139.93	0.000	0.000	0.000
	8,500.00	90.00	89.74	7,465.00	5.62	1,239.92	1,239.93	0.000	0.000	0.000
	8,600.00	90.00	89.74	7,465.00	6.07	1,339.92	1,339.93	0.000	0.000	0.000
	8,700.00	90.00	89.74	7,465.00	6.53	1,439.91	1,439.93	0.000	0.000	0.000
	8,800.00	90.00	89.74	7,465.00	6.98	1,539.91	1,539.93	0.000	0.000	0.000
	8,900.00	90.00	89.74	7,465.00	7.43	1,639.91	1,639.93	0.000	0.000	0.000
	9,000.00	90.00	89.74	7,465.00	7.89	1,739.91	1,739.93	0.000	0.000	0.000
	9,100.00	90.00	89.74	7,465.00	8.34	1,839.91	1,839.93	0.000	0.000	0.000
	9,200.00	90.00	89.74	7,465.00	8.79	1,939.91	1,939.93	0.000	0.000	0.000
	9,300.00	90.00	89.74	7,465.00	9.25	2,039.91	2,039.93	0.000	0.000	0.000
	9,400.00	90.00	89.74	7,465.00	9.70	2,139.91	2,139.93	0.000	0.000	0.000
	9,500.00	90.00	89.74	7,465.00	10.15	2,239.91	2,239.93	0.000	0.000	0.000
	9,600.00	90.00	89.74	7,465.00	10.61	2,339.91	2,339.93	0.000	0.000	0.000
	9,700.00	90.00	89.74	7,465.00	11.06	2,439.90	2,439.93	0.000	0.000	0.000
	9,800.00	90.00	89.74	7,465.00	11.51	2,539.90	2,539.93	0.000	0.000	0.000
	9,900.00	90.00	89.74	7,465.00	11.97	2,639.90	2,639.93	0.000	0.000	0.000
	10,000.00	90.00	89.74	7,465.00	12.42	2,739.90	2,739.93	0.000	0.000	0.000
	10,100.00	90.00	89.74	7,465.00	12.87	2,839.90	2,839.93	0.000	0.000	0.000
	10,200.00	90.00	89.74	7,465.00	13.33	2,939.90	2,939.93	0.000	0.000	0.000
	10,300.00	90.00	89.74	7,465.00	13.78	3,039.90	3,039.93	0.000	0.000	0.000
	10,400.00	90.00	89.74	7,465.00	14.23	3,139.90	3,139.93	0.000	0.000	0.000
	10,500.00	90.00	89.74	7,465.00	14.69	3,239.90	3,239.93	0.000	0.000	0.000
	10,600.00	90.00	89.74	7,465.00	15.14	3,339.90	3,339.93	0.000	0.000	0.000
	10,700.00	90.00	89.74	7,465.00	15.59	3,439.89	3,439.93	0.000	0.000	0.000
	10,800.00	90.00	89.74	7,465.00	16.05	3,539.89	3,539.93	0.000	0.000	0.000
	10,900.00	90.00	89.74	7,465.00	16.50	3,639.89	3,639.93	0.000	0.000	0.000
	11,000.00	90.00	89.74	7,465.00	16.95	3,739.89	3,739.93	0.000	0.000	0.000
	11,100.00	90.00	89.74	7,465.00	17.41	3,839.89	3,839.93	0.000	0.000	0.000
	11,200.00	90.00	89.74	7,465.00	17.86	3,939.89	3,939.93	0.000	0.000	0.000
	11,300.00	90.00	89.74	7,465.00	18.31	4,039.89	4,039.93	0.000	0.000	0.000
	11,400.00	90.00	89.74	7,465.00	18.77	4,139.89	4,139.93	0.000	0.000	0.000

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Aim Directional Services, LLC



Survey Report



Company: Strata Production Company
Project: Eddy Co., NM (NAD 83 NME)
Site: FNRU Federal Com 22 23 PPI 16H

Well: Fed Com 22 23 PPI 16H

Wellbore: Planning
Design: Lateral 1r0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Site FNRU Federal Com 22 23 PPI 16H Well @ 3285.00usft (Assumed 25' RKB) Well @ 3285.00usft (Assumed 25' RKB)

Grid

Minimum Curvature

RTOC- EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,500.00	90.00	89.74	7,465.00	19.22	4,239.89	4,239.93	0.000	0.000	0.000
11,600.00	90.00	89.74	7,465.00	19.67	4,339.88	4,339.93	0.000	0.000	0.000
11,700.00	90.00	89.74	7,465.00	20.13	4,439.88	4,439.93	0.000	0.000	0.000
11,800.00	90.00	89.74	7,465.00	20.58	4,539.88	4,539.93	0.000	0.000	0.000
11,900.00	90.00	89.74	7,465.00	21.03	4,639.88	4,639.93	0.000	0.000	0.000
12,000.00	90.00	89.74	7,465.00	21.49	4,739.88	4,739.93	0.000	0.000	0.000
12,100.00	90.00	89.74	7,465.00	21.94	4,839.88	4,839.93	0.000	0.000	0.000
12,200.00	90.00	89.74	7,465.00	22.39	4,939.88	4,939.93	0.000	0.000	0.000
12,300.00	90.00	89.74	7,465.00	22.85	5,039.88	5,039.93	0.000	0.000	0.000
12,400.00	90.00	89.74	7,465.00	23.30	5,139.88	5,139.93	0.000	0.000	0.000
12,500.00	90.00	89.74	7,465.00	23.75	5,239.88	5,239.93	0.000	0.000	0.000
12,600.00	90.00	89.74	7,465.00	24.21	5,339.87	5,339.93	0.000	0.000	0.000
12,700.00	90.00	89.74	7,465.00	24.66	5,439.87	5,439.93	0.000	0.000	0.000
12,800.00	90.00	89.74	7,465.00	25.11	5,539.87	5,539.93	0.000	0.000	0.000
12,900.00	90.00	89.74	7,465.00	25.57	5,639.87	5,639.93	0.000	0.000	0.000
13,000.00	90.00	89.74	7,465.00	26.02	5,739.87	5,739.93	0.000	0.000	0.000
13,100.00	90.00	89.74	7,465.00	26.47	5,839.87	5,839.93	0.000	0.000	0.000
13,172.23	90.00	89.74	7,465.00	26.80	5,912.10	5,912.16	0.000	0.000	0.000

Des	ign	Target	S
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Target Name

Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FNRU Federal Com 2	0.00	0.00	7,465.00	26.80	5,912.10	467,437.80	692,779.30	32° 17' 2.795 N	103° 50' 35.801 W

- plan hits target center

- Point

Casing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")	
	13,172.23	7,465.00 2	20" Casing		20	24	

Plan Annotations				
Measured	d Vertical	Local Coor	dinates	Comment
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
698	8 7465	0	0	KOP: 12°/100' @ 6987.54' MD
773		2	477	LP: 7737.53' MD, 90.00° Inc, 89.74° Azm
13,17		27	5912	PBHL @ 13172.23' MD/7465.00' TVD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Strata Production Company

WELL NAME & NO.: FNRU Federal Com 22 23 PPI 16H

LOCATION: Sec 22-23S-30E-NMP
COUNTY: Eddy County, New Mexico

 \mathbf{COA}

H2S	← Yes	No	
Potash	○ None	○ Secretary	© R-111-P
Cave/Karst Potential	⊂ Low	← Medium	High
Cave/Karst Potential			
Variance	None	← Flex Hose	○ Other
Wellhead	Conventional	← Multibowl	← Both
Other	☐ 4 String Area	☐ Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	☐ Water Disposal	₩ COM	□ Unit

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 367 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. Depth adjusted per BLM geologist requirements to protect usable water
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

Page 1 of 7

- 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 or potash.
 - ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

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

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

C. PRESSURE CONTROL

- 1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000 (3M)** psi.

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D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

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- Notify the BLM when moving in and removing the Spudder Rig.
- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
- BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

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have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

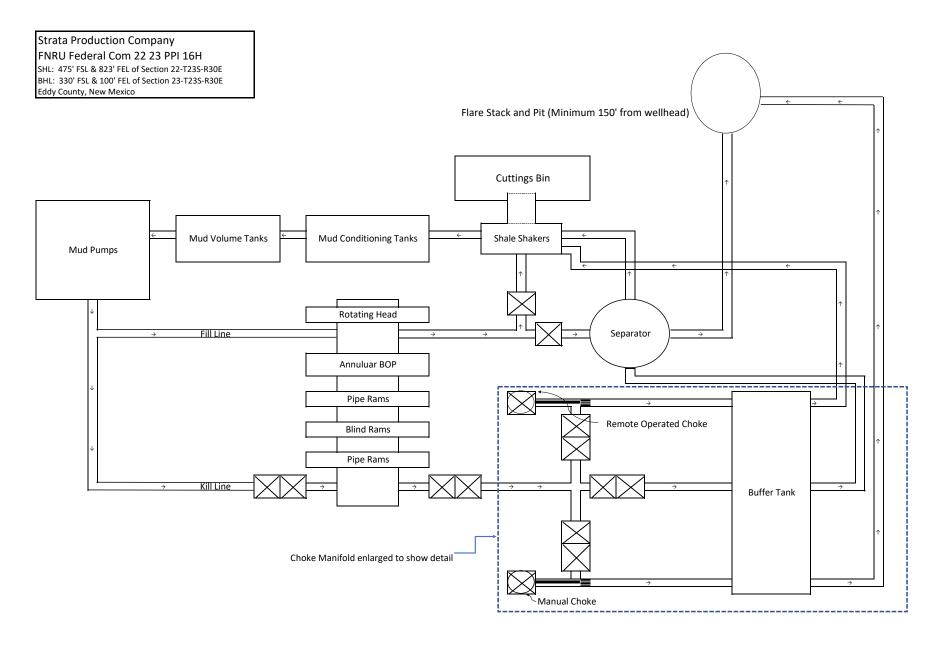
C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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



Strata Production Company FNRU Federal Com 22 23 PPI 16H SHL: 475' FSL & 823' FEL of Section 22-T23S-R30E BHL: 330' FSL & 100' FEL of Section 23-T23S-R30E Eddy County, New Mexico

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
8755402	RUSTLER	2894	370	370	ANHYDRITE	NONE	N
7873400	TOP SALT	2245	649	649	SALT	NONE	N
7873401	BASE OF SALT	-727	3621	3621	SALT	NONE	N
8755403	LAMAR	-952	3846	3846	LIMESTONE	NATURAL GAS, OIL	N
8755404	BELL CANYON	-980	3874	3874	SANDSTONE	NATURAL GAS, OIL	Y
7873402	CHERRY CANYON	-1867	4761	4761	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
7873403	BRUSHY CANYON	-3183	6077	6077	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
7873404	BONE SPRING	-4824	7718	7718	LIMESTONE, SHALE	NATURAL GAS, OIL	N

STRATA PRODUCTION COMPANY

FNRU Federal Com 22 23 PPI 16H SHL: 475' FSL & 823' FEL of Sec 22 BHL: 330' FSL & 100' FEL of Sec 23

Section 22-T23S-R30E 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 <u>between</u> 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

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 168490

CONDITIONS

Operator:	OGRID:
STRATA PRODUCTION CO	21712
P.O. Box 1030	Action Number:
Roswell, NM 882021030	168490
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require a name change C-103A Change of Plans Sundry prior to putting the well into production. See naming convention document sent via e-mail.	12/27/2022
kpickford	Notify OCD 24 hours prior to casing & cement	12/27/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	12/27/2022
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	12/27/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	12/27/2022
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	12/27/2022