Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM104965 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. **✓** DRILL REENTER 1a. Type of work: 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 III Forty Niner Ridge Unit 15H 2. Name of Operator 9. API Well No. STRATA PRODUCTION COMPANY 30-015-49591 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory FORTY NINER RIDGE UNIT/DELAWARE P O BOX 1030, ROSWELL, NM 88202-1030 (575) 622-1127 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 NESE / 2100 FSL / 850 FEL / LAT 32.288973 / LONG -103.863055 At proposed prod. zone NESE / 1650 FSL / 100 FEL / LAT 32.2877372 / LONG -103.8432902 12. County or Parish 14. Distance in miles and direction from nearest town or post office\* 13 State **EDDY** NM 19 miles 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 850 feet location to nearest 400.0 property or lease line, ft. (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, 1010 feet 7425 feet / 13372 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 3220 feet 03/01/2022 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 25. Signature Name (Printed/Typed) Date LUPE RINCON-GARCIA / Ph: (575) 622-1127 (Electronic Submission) 11/19/2021 Title Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) 06/01/2022 Cody Layton / Ph: (575) 234-5959 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.



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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

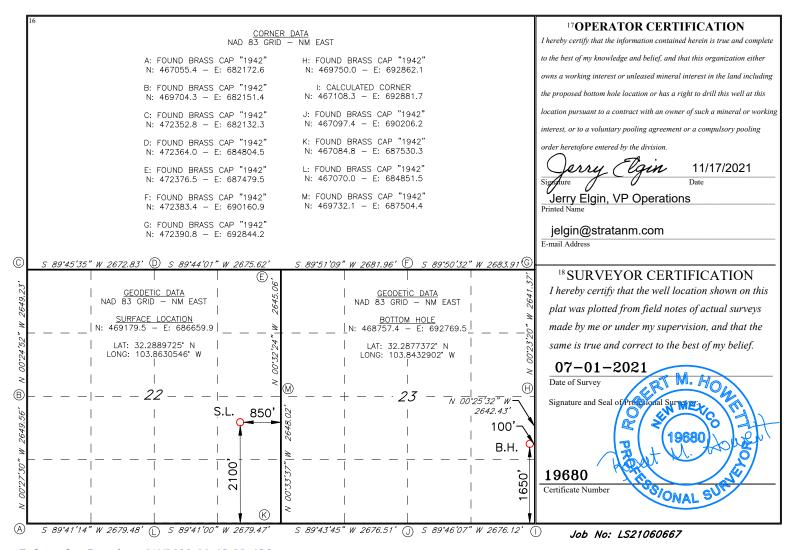
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

■ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-49591			<sup>2</sup> Pool Code <b>24750</b>		<sup>3</sup> Pool Name  FORTY NINER RIDGE DELAWARE					
<sup>4Property Code</sup> 332904 Forty N Ridge U			FNRU FEDERAL COM 22 23 III			$\epsilon$	Well Number 15H			
70GRID NO. 21712			STRATA PRODUCTION COMPANY		<sup>9</sup> Elevation <b>3220'</b>					
<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/We	est line	County
I	22	23S	30E		2100	SOUTH	850	EAS	ST	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/We	est line	County
I	23	23S	30E		1650	SOUTH	100	EAS	ST	EDDY
12 Dedicated Acres	s 13 Joint	or Infill 14 (	Consolidation	Code 15 (	Order No.					

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



I. Operator: \_ Strata Production Company

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## State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 06/02/2022

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

OGRID:

21712

II. Type: N Original	l Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) N	MAC 🗆 Ot	her.
If Other, please describe	i						-9
III. Well(s): Provide the be recompleted from a si					w <mark>ell</mark> s pr	oposed to be	e drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Anticipated Produced Water BBL/D
FNRU Federal Com 22 23 III #15H		I, Sec 22 T23S, R30E	2100 FSL, 850 FEL	600	1	200	2000
IV. Central Delivery Po	oint Name: _	FNRU Feder	al Com 22 23 III	#15H		[See 19.	15.27.9(D)(1) NMAC]
V. Anticipated Schedule proposed to be recomple					vell or se	et of wells p	roposed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Dat	
FNRU Federal Com 22 23 III #15H		08/07/2022	08/28/2022	09/11/2022		09/18/202	2 09/21/2022
VI. Separation Equipm	ent: 🙀 Attacl	a complete descri	ption of how Op	erator will size sep	paration	equipment t	to optimize gas capture.
VII. Operational Pract Subsection A through F			cription of the ac	tions Operator wil	ll take to	o comply w	ith the requirements of
VIII. Best Managemen during active and planne			ete description of	Operator's best r	nanagen	nent practic	es to minimize venting

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## 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	
Natural Gas Gat	hering System (NO	GGS):				
		ULSTR of Tie-in	Anticipated Gathering	Av		

**XI. Map.**  $\square$  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 no	ot have capacity to gath	her 100% of the anticipated	d natural gas
production volume from the well	prior to the date of first	st production.			

**XIII.** Line Pressure. Operator  $\square$  does  $\square$  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.

Released to Imaging: 6/6/2022/211:456291AMI

# Section 3 - Certifications Effective May 25, 2021

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

NOperator 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.

#### Page 8

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 Elgin				
Printed Name: Jerry Elgin				
Title: 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.

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

QUESTIONS

Action 48529

#### **QUESTIONS**

Operator:	OGRID:
STRATA PRODUCTION CO	21712
P.O. Box 1030	Action Number:
Roswell, NM 882021030	48529
	Action Type:
	[UF-NGMP] NG Management Plan (NGMP)

#### QUESTIONS

l. Type:				
Original	True			
Amendment due to 19.15.27.9.D(6)(a) NMAC	Not answered.			
Amendment due to 19.15.27.9.D(6)(b) NMAC	Not answered.			
Other	Not answered.			
If other, please describe	Not answered.			

III. Well(s)	
Number of wells identified above	10

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COMMENTS

Action 48529

#### **COMMENTS**

Operator:	OGRID:
STRATA PRODUCTION CO	21712
P.O. Box 1030	Action Number:
Roswell, NM 882021030	48529
	Action Type:
	[UF-NGMP] NG Management Plan (NGMP)

#### COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 10/21/2021	10/21/2021

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CONDITIONS

Action 48529

#### CONDITIONS

Operator:	OGRID:
STRATA PRODUCTION CO	21712
P.O. Box 1030	Action Number:
Roswell, NM 882021030	48529
	Action Type:
	[UF-NGMP] NG Management Plan (NGMP)

#### CONDITIONS

Created By	Condition	Condition Date
kpickford	None	10/21/2021



APD ID: 10400081831

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

# Drilling Plan Data Report

Submission Date: 11/19/2021

**Operator Name: STRATA PRODUCTION COMPANY** 

Well Name: FNRU FEDERAL COM 22 23 III

Well Number: 15H

Well Type: OIL WELL Well Work Type: Drill Show

Highlighted data reflects the most recent changes

**Show Final Text** 

## **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
7824407	TOP SALT	3220	689	689	SALT	NONE	N
7824408	BASE OF SALT	-436	3656	3656	SALT	NONE	N
7824409	CHERRY CANYON	-1424	4644	4644	SANDSTONE	NATURAL GAS, OIL	Y
7824410	BRUSHY CANYON	-2717	5937	5937	SANDSTONE	NATURAL GAS, OIL	Y
7824411	BONE SPRING	-4383	7603	7603	LIMESTONE, SHALE	NATURAL GAS, OIL	Y

## **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:**

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Choke\_Diagram\_20211118200959.pdf

#### **BOP Diagram Attachment:**

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_BOP\_20211118201010.pdf

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_BOPE\_Description\_20211118201017.pdf

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3220	2770	450	H-40	48	ST&C	3.95	7.39	DRY	14.9 1	DRY	25.0 5
2		12.2 5	9.625	NEW	API	N	0	3800	0	3800	3335	-580	3800	J-55	40	LT&C	1.56	2	DRY	4.2	DRY	2.98
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	13372	0	7425	3268	-4205	13372	HCP -110	20	BUTT	1.91	1.82	DRY	2.45	DRY	2.49

## **Casing Attachments**

Casing ID: 1 String SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Casing\_Worksheet\_20211119155736.pdf

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

#### **Casing Attachments**

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Casing\_Worksheet\_20211119155801.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Casing\_Worksheet\_20211119155714.pdf

#### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	450	575	1.33	14.8	135	100	Class C	CaCl, LCM

INTERMEDIATE	Lead		0	3050	1047	1.98	12.6	369	100	Class C Poz	Salt, gel, extender, LCM
INTERMEDIATE	Tail		3050	3800	150	1.34	14.8	36	100	Class C	LCM
PRODUCTION	Lead	5200	0	4700	467	2.64	11.5	220	50	Class C Poz	Salt, gel, extender, LCM

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		4700	5200	128	1.34	14.8	31	50	Class C Poz	none
PRODUCTION	Lead	5200	5200	7000	289	2.38	11.8	122	50	Class H Poz	Salt, gel, extender, LCM
PRODUCTION	Tail		7000	1337 2	1539	1.22	14.4	335	50	Class H Poz	Salt, gel, extender, LCM

## **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Kelly cock in the drill string, a full opening drill pipe stabbing valve on rig floor, remote kill line, mud gas separator.

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

## **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	WATER-BASED MUD	8.5	8.9			10				Spud with fresh water and build mud while drilling
450	3800	SALT SATURATED	10	10.5			10				Drill with brine water with LCM and gel sweeps
3800	1240 1	SALT SATURATED	9.5	10.2			10				Drill with water based mud using sliders and gel sweeps in the lateral.

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

## Section 6 - Test, Logging, Coring

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

None

List of open and cased hole logs run in the well:

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

Coring operation description for the well:

None

### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 3360 Anticipated Surface Pressure: 1726

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

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_H2S\_Plan\_20211118201421.pdf

#### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Lateral\_20211118201556.pdf

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Wellbore\_Diagram\_20211118201623.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Gas\_Capture\_Plan\_20211118201701.pdf

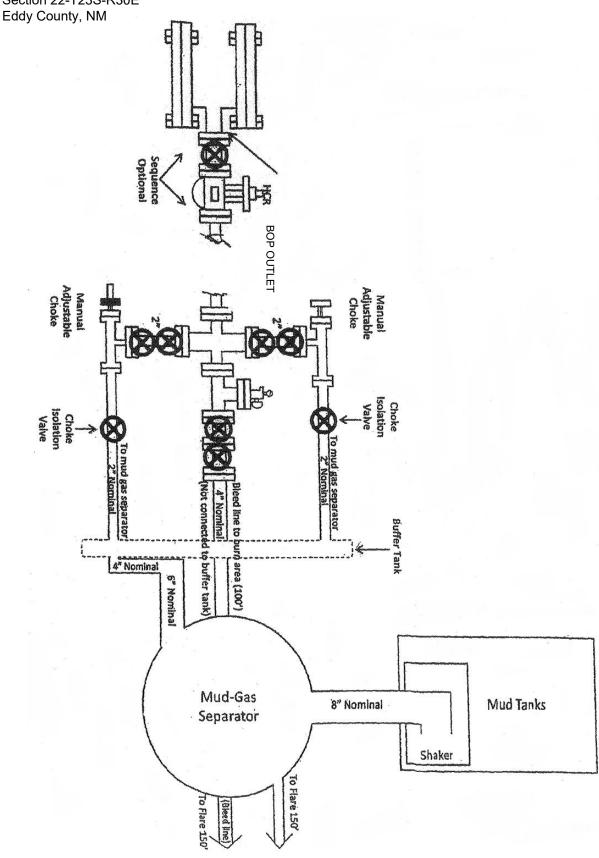
Other Variance attachment:



# Strata Production Company FNRU Federal Com 22 23 III 15H

SHL: 2100' FSL & 850' FEL BHL: 1650' FSL & 100' FEL Section 22-T23S-R30E

# **Drillling Operations 3M Choke Manifold**



## Strata Production Company FNRU Federal Com 22 23 III #15H Section 22, T23S, R30E

SL: 2,100' FSL & 850' FEL of Section 22 BHL: 1,650' FSL & 100' FEL of Section 23

	Casing I	<u>Interval</u>								
<u>Hole</u> <u>Size</u>	From	<u>To</u>	Csg Size	Weight	Grade	Connection	<u>SF</u> Collapse	SF Burst	SF Joint Tension	SF Body Tension
17.5	0	450	13.375	48	API	STC	3.95	7.39	14.91	25.05
12.25	0	3,800	9.625	40	API	LTC	1.56	2.00	4.20	2.98
8.75	0	13,372	5.5	20	API	Buttress	1.91	1.82	2.45	2.49
BLM Mini	mum 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).	У
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 051:110717022 4:15:04 P. Strata Production Company



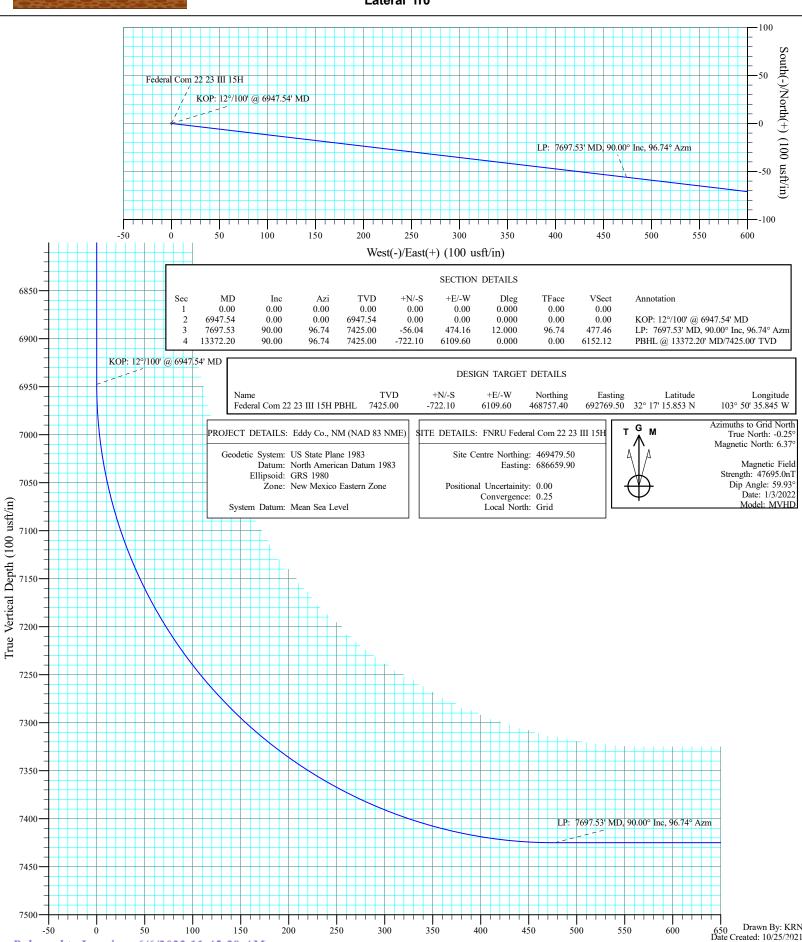
Released to Imaging: 6/6/2022 11:45:29 AM

FNRU Federal Com 22 23 III 15H Eddy Co., NM (NAD 83 NME) Job No. WT-22-\*\*\* Lateral 1r0



Date Revised: 10/25/2021

File: Strata Production - FNRU Federal Com 22 23 III 15H - Lateral 1r0 Curve.wpc



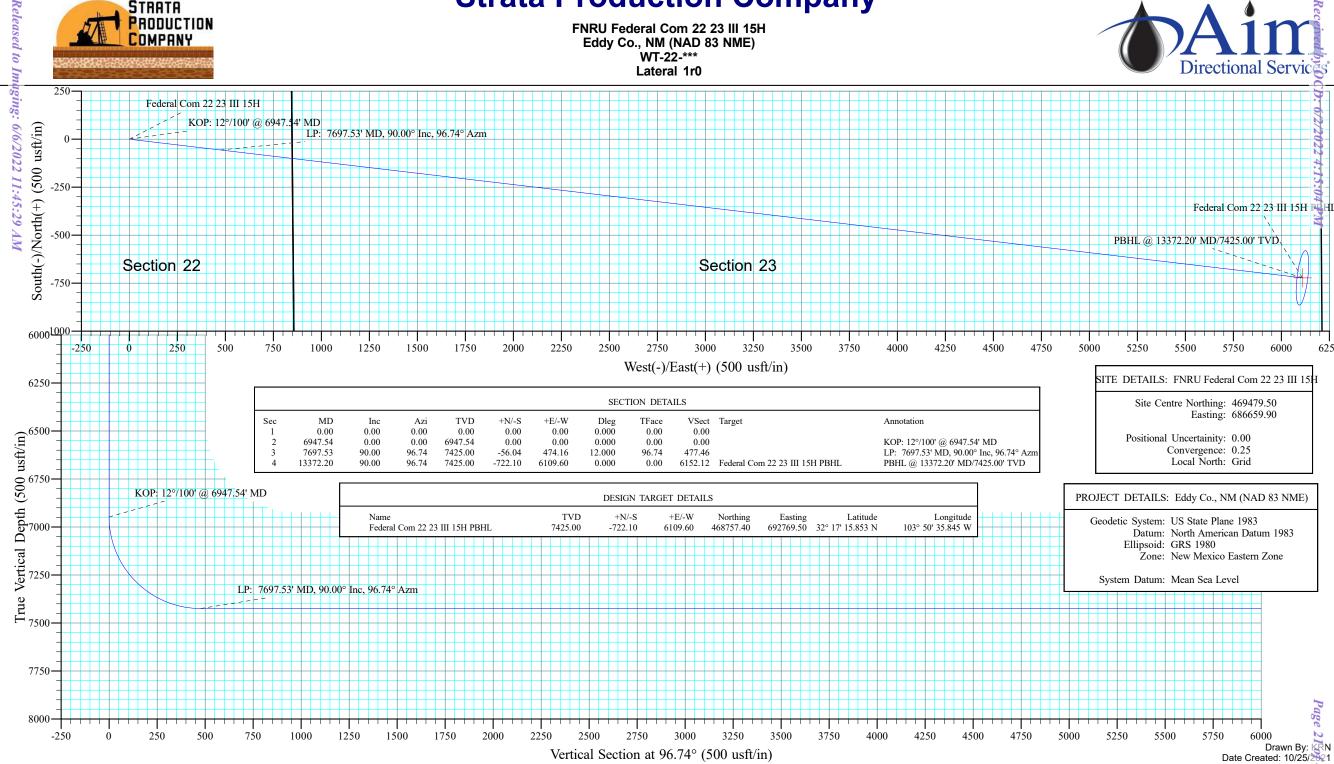
Vertical Section at 96.74° (100 usft/in)

## **Strata Production Company**

PRODUCTION

FNRU Federal Com 22 23 III 15H Eddy Co., NM (NAD 83 NME) WT-22-\*\*\* Lateral 1r0





Date Revised: 10/25/2921 File: Strata Production - FNRU Federal Com 22 23 III 15H - Lateral 1r0.wpc

#### Page 22 of 41

## **Aim Directional Services, LLC**



Survey Report



Company: Strata Production Company
Project: Eddy Co., NM (NAD 83 NME)
Site: FNRU Federal Com 22 23 III 15H
Well: Federal Com 22 23 III 15H

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 III 15H Well @ 3245.00usft (Assumed 25' RKB) Well @ 3245.00usft (Assumed 25' RKB)

Grid
Minimum Curvature

RTOC- EDM 5000.1 Single User Db

Project Eddy Co., NM (NAD 83 NME)

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

System Datum: Mean Sea Level

FNRU Federal Com 22 23 III 15H

Northing: 469,479.50 usft Site Position: Latitude: 32° 17' 23.270 N Easting: From: Мар 686,659.90 usft Longitude: 103° 51' 46.982 W **Position Uncertainty:** Slot Radius: **Grid Convergence:** 0.25° 0.00 usft 13-3/16 "

Well Federal Com 22 23 III 15H

**Well Position** +N/-S 0.00 usft Northing: 469,479.50 usft Latitude: 32° 17' 23.270 N +E/-W 0.00 usft Easting: 686,659.90 usfl Longitude: 103° 51' 46.982 W 0.00 usft Wellhead Elevation: usf Ground Level: 3,220.00 usft **Position Uncertainty** 

Wellbore Planning **Magnetics Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) **MVHD** 59.93 47,694.966 1/3/2022 6.62

Design Lateral 1r0

Audit Notes:

Site

Version:Phase:PROTOTYPETie On Depth:0.00

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

 0.00
 0.00
 0.00
 96.74

Survey Tool Program Date 10/25/2021

From To
(usft) (usft) Survey (Wellbore) Tool Name Description

0.00 13,372.20 Lateral 1r0 (Planning) B001Mb MWD+HRGM OWSG MWD + HRGM

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

## **Aim Directional Services, LLC**



Survey Report



Company:Strata Production CompanyProject:Eddy Co., NM (NAD 83 NME)Site:FNRU Federal Com 22 23 III 15HWell:Federal Com 22 23 III 15H

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 III 15H Well @ 3245.00usft (Assumed 25' RKB) Well @ 3245.00usft (Assumed 25' RKB) Grid

Minimum Curvature RTOC- EDM 5000.1 Single User Db

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)
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**





Company: Strata Production Company Project: Eddy Co., NM (NAD 83 NME) Site: FNRU Federal Com 22 23 III 15H Well: Federal Com 22 23 III 15H

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 III 15H Well @ 3245.00usft (Assumed 25' RKB) Well @ 3245.00usft (Assumed 25' RKB)

Minimum Curvature

RTOC- EDM 5000.1 Single User Db

ooigiii.								J .	
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)
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
6,947.54	0.00	0.00	6,947.54	0.00	0.00	0.00	0.000	0.000	0.000
KOP: 12°/1	100' @ 6947.54	' MD							
6,950.00	0.30	96.74	6,950.00	0.00	0.01	0.01	12.000	12.000	0.000
6,975.00	3.30	96.74	6,974.99	-0.09	0.78	0.79	12.000	12.000	0.000
7,000.00	6.30	96.74	6,999.89	-0.34	2.86	2.88	12.000	12.000	0.000
7,025.00	9.30	96.74	7,024.66	-0.74	6.23	6.27	12.000	12.000	0.000
7,050.00	12.30	96.74	7,049.22	-1.29	10.88	10.95	12.000	12.000	0.000
7,075.00	15.30	96.74	7,073.49	-1.99	16.80	16.91	12.000	12.000	0.000
7,100.00	18.30	96.74	7,097.42	-2.83	23.97	24.14	12.000	12.000	0.000
7,125.00	21.30	96.74	7,120.94	-3.83	32.38	32.60	12.000	12.000	0.000
7,150.00	24.30	96.74	7,143.99	-4.96	41.99	42.29	12.000	12.000	0.000
7,175.00	27.30	96.74	7,166.49	-6.24	52.80	53.16	12.000	12.000	0.000
7,200.00	30.30	96.74	7,188.40	-7.65	64.76	65.21	12.000	12.000	0.000
7,225.00	33.30	96.74	7,209.65	-9.20	77.83	78.38	12.000	12.000	0.000
7,250.00	36.30	96.74	7,230.17	-10.87	92.00	92.64	12.000	12.000	0.000
7,275.00	39.30	96.74	7,249.93	-12.67	107.21	107.96	12.000	12.000	0.000
7,300.00	42.30	96.74	7,268.85	-14.59	123.43	124.29	12.000	12.000	0.000
7,325.00	45.30	96.74	7,286.89	-16.62	140.61	141.59	12.000	12.000	0.000
7,350.00	48.30	96.74	7,304.01	-18.76	158.71	159.81	12.000	12.000	0.000
7,375.00	51.30	96.74	7,320.14	-21.00	177.67	178.91	12.000	12.000	0.000
7,400.00	54.30	96.74	7,335.26	-23.34	197.44	198.82	12.000	12.000	0.000
7,425.00	57.30	96.74	7,349.31	-25.76	217.97	219.49	12.000	12.000	0.000
7,450.00	60.30	96.74	7,362.26	-28.27	239.20	240.87	12.000	12.000	0.000
7,475.00	63.30	96.74	7,374.07	-30.86	261.08	262.90	12.000	12.000	0.000
7,500.00	66.30	96.74	7,384.72	-33.51	283.54	285.52	12.000	12.000	0.000
7,525.00	69.30	96.74	7,394.16	-36.23	306.53	308.66	12.000	12.000	0.000
7,550.00	72.30	96.74	7,402.39	-39.00	329.97	332.27	12.000	12.000	0.000

## **Aim Directional Services, LLC**



Survey Report



Company:Strata Production CompanyProject:Eddy Co., NM (NAD 83 NME)Site:FNRU Federal Com 22 23 III 15HWell:Federal Com 22 23 III 15H

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 III 15H Well @ 3245.00usft (Assumed 25' RKB) Well @ 3245.00usft (Assumed 25' RKB)

Grid

Minimum Curvature

RTOC- EDM 5000.1 Single User Db

anned 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)
7,575.00	75.30	96.74	7,409.36	-41.82	353.81	356.27	12.000	12.000	0.000
7,600.00	78.30	96.74	7,415.07	-44.67	377.98	380.61	12.000	12.000	0.000
7,625.00	81.30	96.74	7,419.50	-47.56	402.41	405.21	12.000	12.000	0.000
7,650.00	84.30	96.74	7,422.64	-50.47	427.04	430.01	12.000	12.000	0.000
7,675.00	87.30	96.74	7,424.47	-53.40	451.79	454.94	12.000	12.000	0.000
7,697.53	90.00	96.74	7,425.00	-56.04	474.16	477.46	12.000	12.000	0.000
LP: 7697.5	3' MD, 90.00°	Inc, 96.74° Az	zm						
7,700.00	90.00	96.74	7,425.00	-56.33	476.61	479.93	0.000	0.000	0.000
7,800.00	90.00	96.74	7,425.00	-68.07	575.92	579.93	0.000	0.000	0.000
7,900.00	90.00	96.74	7,425.00	-79.81	675.23	679.93	0.000	0.000	0.000
8,000.00	90.00	96.74	7,425.00	-91.54	774.54	779.93	0.000	0.000	0.000
8,100.00	90.00	96.74	7,425.00	-103.28	873.85	879.93	0.000	0.000	0.000
8,200.00	90.00	96.74	7,425.00	-115.02	973.16	979.93	0.000	0.000	0.000
8,300.00	90.00	96.74	7,425.00	-126.76	1,072.46	1,079.93	0.000	0.000	0.000
8,400.00	90.00	96.74	7,425.00	-138.49	1,171.77	1,179.93	0.000	0.000	0.000
8,500.00	90.00	96.74	7,425.00	-150.23	1,271.08	1,279.93	0.000	0.000	0.000
8,600.00	90.00	96.74	7,425.00	-161.97	1,370.39	1,379.93	0.000	0.000	0.000
8,700.00	90.00	96.74	7,425.00	-173.71	1,469.70	1,479.93	0.000	0.000	0.000
8,800.00	90.00	96.74	7,425.00	-185.44	1,569.01	1,579.93	0.000	0.000	0.000
8,900.00	90.00	96.74	7,425.00	-197.18	1,668.32	1,679.93	0.000	0.000	0.000
9,000.00	90.00	96.74	7,425.00	-208.92	1,767.63	1,779.93	0.000	0.000	0.000
9,100.00	90.00	96.74	7,425.00	-220.65	1,866.93	1,879.93	0.000	0.000	0.000
9,200.00	90.00	96.74	7,425.00	-232.39	1,966.24	1,979.93	0.000	0.000	0.000
9,300.00	90.00	96.74	7,425.00	-244.13	2,065.55	2,079.93	0.000	0.000	0.000
9,400.00	90.00	96.74	7,425.00	-255.87	2,164.86	2,179.93	0.000	0.000	0.000
9,500.00	90.00	96.74	7,425.00	-267.60	2,264.17	2,279.93	0.000	0.000	0.000
9,600.00	90.00	96.74	7,425.00	-279.34	2,363.48	2,379.93	0.000	0.000	0.000
9,700.00	90.00	96.74	7,425.00	-291.08	2,462.79	2,479.93	0.000	0.000	0.000
9,800.00	90.00	96.74	7,425.00	-302.82	2,562.10	2,579.93	0.000	0.000	0.000
9,900.00	90.00	96.74	7,425.00	-314.55	2,661.41	2,679.93	0.000	0.000	0.000
10,000.00	90.00	96.74	7,425.00	-326.29	2,760.71	2,779.93	0.000	0.000	0.000
10,100.00	90.00	96.74	7,425.00	-338.03	2,860.02	2,879.93	0.000	0.000	0.000
10,200.00	90.00	96.74	7,425.00	-349.77	2,959.33	2,979.93	0.000	0.000	0.000
10,300.00	90.00	96.74	7,425.00	-361.50	3,058.64	3,079.93	0.000	0.000	0.000
10,400.00	90.00	96.74	7,425.00	-373.24	3,157.95	3,179.93	0.000	0.000	0.000
10,500.00	90.00	96.74	7,425.00	-384.98	3,257.26	3,279.93	0.000	0.000	0.000
10,600.00	90.00	96.74	7,425.00	-396.72	3,356.57	3,379.93	0.000	0.000	0.000
10,700.00	90.00	96.74	7,425.00	-408.45	3,455.88	3,479.93	0.000	0.000	0.000
10,800.00	90.00	96.74	7,425.00	-420.19	3,555.18	3,579.93	0.000	0.000	0.000
10,900.00	90.00	96.74	7,425.00	-431.93	3,654.49	3,679.93	0.000	0.000	0.000
11,000.00	90.00	96.74	7,425.00	-443.67	3,753.80	3,779.93	0.000	0.000	0.000
11,100.00	90.00	96.74	7,425.00	-455.40	3,853.11	3,879.93	0.000	0.000	0.000
•	90.00	96.74	7,425.00	-467.14	3,952.42	3,979.93	0.000	0.000	0.000
11,200.00	30.00								

## Page 26 of 41

## **Aim Directional Services, LLC**



Survey Report



Company:Strata Production CompanyProject:Eddy Co., NM (NAD 83 NME)Site:FNRU Federal Com 22 23 III 15HWell:Federal Com 22 23 III 15H

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 III 15H Well @ 3245.00usft (Assumed 25' RKB) Well @ 3245.00usft (Assumed 25' RKB) Grid

Minimum Curvature RTOC- EDM 5000.1 Single User Db

								3	
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)
11,400.00	90.00	96.74	7,425.00	-490.62	4,151.04	4,179.93	0.000	0.000	0.000
11,500.00	90.00	96.74	7,425.00	-502.35	4,250.35	4,279.93	0.000	0.000	0.000
11,600.00	90.00	96.74	7,425.00	-514.09	4,349.65	4,379.93	0.000	0.000	0.000
11,700.00	90.00	96.74	7,425.00	-525.83	4,448.96	4,479.93	0.000	0.000	0.000
11,800.00	90.00	96.74	7,425.00	-537.56	4,548.27	4,579.93	0.000	0.000	0.000
11,900.00	90.00	96.74	7,425.00	-549.30	4,647.58	4,679.93	0.000	0.000	0.000
12,000.00	90.00	96.74	7,425.00	-561.04	4,746.89	4,779.93	0.000	0.000	0.000
12,100.00	90.00	96.74	7,425.00	-572.78	4,846.20	4,879.93	0.000	0.000	0.000
12,200.00	90.00	96.74	7,425.00	-584.51	4,945.51	4,979.93	0.000	0.000	0.000
12,300.00	90.00	96.74	7,425.00	-596.25	5,044.82	5,079.93	0.000	0.000	0.000
12,400.00	90.00	96.74	7,425.00	-607.99	5,144.12	5,179.93	0.000	0.000	0.000
12,500.00	90.00	96.74	7,425.00	-619.73	5,243.43	5,279.93	0.000	0.000	0.000
12,600.00	90.00	96.74	7,425.00	-631.46	5,342.74	5,379.93	0.000	0.000	0.000
12,700.00		96.74	7,425.00	-643.20	5,442.05	5,479.93	0.000	0.000	0.000
12,800.00		96.74	7,425.00	-654.94	5,541.36	5,579.93	0.000	0.000	0.000
12,900.00	90.00	96.74	7,425.00	-666.68	5,640.67	5,679.93	0.000	0.000	0.000
13,000.00		96.74	7,425.00	-678.41	5,739.98	5,779.93	0.000	0.000	0.000
13,100.00	90.00	96.74	7,425.00	-690.15	5,839.29	5,879.93	0.000	0.000	0.000
13,200.00		96.74	7,425.00	-701.89	5,938.59	5,979.93	0.000	0.000	0.000
13,300.00	90.00	96.74	7,425.00	-713.63	6,037.90	6,079.93	0.000	0.000	0.000
13,372.20	90.00	96.74	7,425.00	-722.10	6,109.60	6,152.13	0.000	0.000	0.000
PBHL @ '	13372.20' MD/74	425.00' TVD							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Federal Com 22 23 II - plan hits target c - Point		0.00	7,425.00	-722.10	6,109.60	468,757.40	692,769.50	32° 17′ 15.853 N	103° 50' 35.845 W

Plan Annotations				
Measured	l Vertical	Local Coor	dinates	Comment
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
694	8 7425	0	0	KOP: 12°/100' @ 6947.54' MD
769		-56	474	LP: 7697.53' MD, 90.00° Inc, 96.74° Azm
13,37		-722	6110	PBHL @ 13372.20' MD/7425.00' TVD

FNRU Federal Com 22 23 III 15H

SHL: 2100' FSL & 850' FEL BHL: 1650' FSL & 100' FEL Section 22-T23S-R30E 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<sub>2</sub>S 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<sub>2</sub>S 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<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S 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. <u>H2S SAFETY EQUIPMENT AND SYSTEMS</u>

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S.

## A. Well Control Equipment:

All BOP and BOP equipment is shown in the attachments.

Flare line.

Choke manifold with a remotely operated choke as shown in Attachment #5.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include annular preventer, mudgas separator, rotating head.

## B. Protective equipment for essential personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

## C. H2S detection and monitoring equipment:

2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

## D. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate.

Wind Direction indicators as seen in the H2S Well Site Diagram.

- E. Mud Program: The mud program has been designed to minimize the volume of H2S circulated to the surface.
- F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.

G. Communication:

Company vehicles equipped with cellular telephone.

## WARNING

# YOU ARE ENTERING AN H<sub>2</sub>S 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

**Eddy County Sheriff's Office** 

## **EMERGENCY NUMBERS**

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

575-887-7551

-		
Lea County Sherrif's Office	(Lovington)	575-396-3611
<b>New Mexico State Police</b>	(Roswell)	575-622-7200
<b>Eastern NM Medical Center</b>	(Roswell)	575-622-8170
Lea Regional Hospital	(Hobbs)	575-492-5000
Carlsbad Hospital		575-887-4100
<b>Carlsbad Fire Department</b>		575-885-3125
<b>Ambulance Service</b>		575-885-2111
BLM Carlsbad		575-234-5972
<b>BLM Hobbs</b>		575-393-3612
NMOCD Hobbs		575-393-6161
<b>Mosaic Potash Carlsbad</b>		575-887-2871
Strata Office		575-622-1127
Jerry Elgin		575-622-1127 x18
<b>Cheyenne Scharf</b>		307-360-3062
Rygel Russell		575-626-1479
Pilar Mendoza		575-626-8161
Mitch Krakauskas		575-622-1127 x23

Well Name: FNRU FEDERAL COM 22 23 III



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

# Drilling Plan Data Report

Submission Date: 11/19/2021

**Operator Name: STRATA PRODUCTION COMPANY** 

Well Number: 15H

Well Type: OIL WELL

APD ID: 10400081831

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

## **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
7824407	TOP SALT	3220	689	689	SALT	NONE	N
7824408	BASE OF SALT	-436	3656	3656	SALT	NONE	N
7824409	CHERRY CANYON	-1424	4644	4644	SANDSTONE	NATURAL GAS, OIL	Y
7824410	BRUSHY CANYON	-2717	5937	5937	SANDSTONE	NATURAL GAS, OIL	Y
7824411	BONE SPRING	-4383	7603	7603	LIMESTONE, SHALE	NATURAL GAS, OIL	Y

## **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:**

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Choke\_Diagram\_20211118200959.pdf

#### **BOP Diagram Attachment:**

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_BOP\_20211118201010.pdf

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_BOPE\_Description\_20211118201017.pdf

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3220	2770	450	H-40	48	ST&C	3.95	7.39	DRY	14.9 1	DRY	25.0 5
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3800	0	3800	3335	-580	3800	J-55	40	LT&C	1.56	2	DRY	4.2	DRY	2.98
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	13372	0	7425	3268	-4205	13372	HCP -110	20	BUTT	1.91	1.82	DRY	2.45	DRY	2.49

## **Casing Attachments**

Casing ID: 1 String SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Casing\_Worksheet\_20211119155736.pdf

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

#### **Casing Attachments**

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Casing\_Worksheet\_20211119155801.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Casing\_Worksheet\_20211119155714.pdf

#### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	450	575	1.33	14.8	135	100	Class C	CaCl, LCM

INTERMEDIATE	Lead		0	3050	1047	1.98	12.6	369	100	Class C Poz	Salt, gel, extender, LCM
INTERMEDIATE	Tail		3050	3800	150	1.34	14.8	36	100	Class C	LCM
PRODUCTION	Lead	5200	0	4700	467	2.64	11.5	220	50	Class C Poz	Salt, gel, extender, LCM

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		4700	5200	128	1.34	14.8	31	50	Class C Poz	none
PRODUCTION	Lead	5200	5200	7000	289	2.38	11.8	122	50	Class H Poz	Salt, gel, extender, LCM
PRODUCTION	Tail		7000	1337 2	1539	1.22	14.4	335	50	Class H Poz	Salt, gel, extender, LCM

## **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Kelly cock in the drill string, a full opening drill pipe stabbing valve on rig floor, remote kill line, mud gas separator.

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

## **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	WATER-BASED MUD	8.5	8.9			10				Spud with fresh water and build mud while drilling
450	3800	SALT SATURATED	10	10.5			10				Drill with brine water with LCM and gel sweeps
3800	1240 1	SALT SATURATED	9.5	10.2			10				Drill with water based mud using sliders and gel sweeps in the lateral.

Well Name: FNRU FEDERAL COM 22 23 III Well Number: 15H

## Section 6 - Test, Logging, Coring

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

None

List of open and cased hole logs run in the well:

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

Coring operation description for the well:

None

### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 3360 Anticipated Surface Pressure: 1726

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

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_H2S\_Plan\_20211118201421.pdf

#### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Lateral\_20211118201556.pdf

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Wellbore\_Diagram\_20211118201623.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

FNRU\_Federal\_Com\_22\_\_23\_III\_15H\_\_Gas\_Capture\_Plan\_20211118201701.pdf

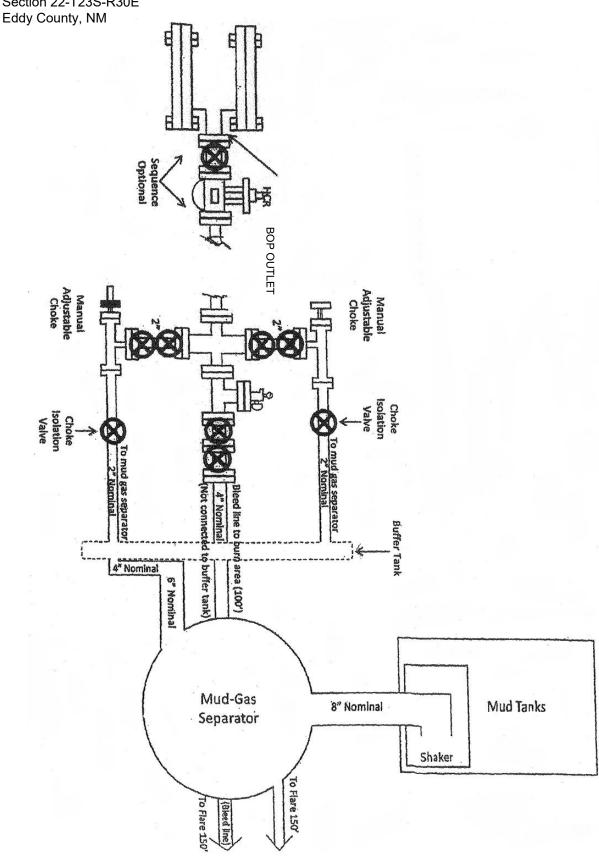
Other Variance attachment:



# Strata Production Company FNRU Federal Com 22 23 III 15H

SHL: 2100' FSL & 850' FEL BHL: 1650' FSL & 100' FEL Section 22-T23S-R30E

# **Drilling Operations 3M Choke Manifold**



## Strata Production Company FNRU Federal Com 22 23 III #15H Section 22, T23S, R30E

SL: 2,100' FSL & 850' FEL of Section 22 BHL: 1,650' FSL & 100' FEL of Section 23

	Casing Interval									
<u>Hole</u>	Fuere	T	Con Sino	Maiaba	Cuada	Campatian	SF Colleges	CE Durat	SF Joint	SF Body
<u>Size</u>	<u>From</u>	<u>To</u>	Csg Size	<u>Weight</u>	<u>Grade</u>	Connection	<u>Collapse</u>	SF Burst	<u>Tension</u>	<u>Tension</u>
17.5	0	450	13.375	48	API	STC	3.95	7.39	14.91	25.05
12.25	0	3,800	9.625	40	API	LTC	1.56	2.00	4.20	2.98
8.75	0	13,372	5.5	20	API	Buttress	1.91	1.82	2.45	2.49
BLM Mini	mum SF						1.125	1.00	1.60	1.60

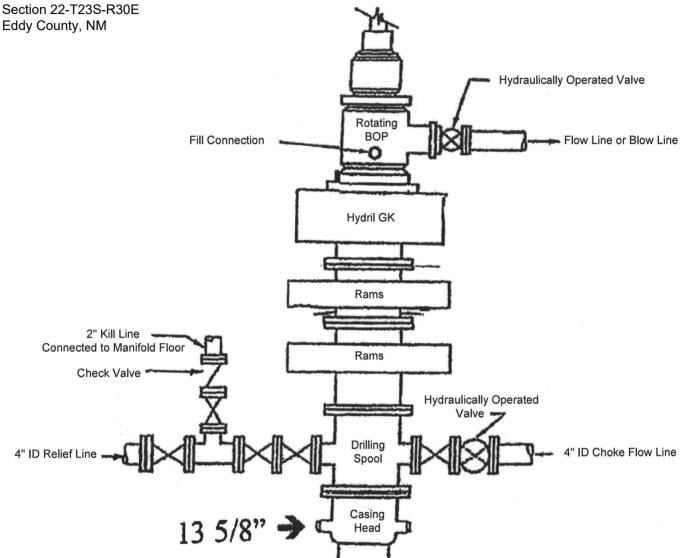
	Y or N
Is casing new? If used, attach certificate as required in Onshore Order #1.	Υ
Is casing API approved? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes, attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not, provide justifications (loading assumptions, casing design criteria).	у
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?	<u>·</u> Y
If yes, is there a contingency casing if lost circulation occurs?	<del>'</del>
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	NA

#### STRATA PRODUCTION COMPANY

FNRU Federal Com 22 23 III 15H

SHL: 2100' FSL & 850' FEL BHL: 1650' FSL & 100' FEL Section 22-T23S-R30E

#### 3000# PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP



The blowout preventer assembly shall consist of one single type blind ram preventer and one single type pipe ram preventer, both hydraulically operated; a Hydril "GK" preventer, a rotating blowout preventer; valves; chokes and cannections, as illustrated. If a toperad drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventer as to be available as needed. It correct in size, the flagged outlets of the ram preventer may be used for connecting to the 4-inch 1.D. choke flow line and 4-inch 1.D. relief line, except when air or gas drilling. All preventer connections are to be open-face flagged.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1)Multiple

pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementationed fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least percent of the original. (3) Whan requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate gower and equal in performance capabilities.

The closing manifold and remote clasing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to rom proventers. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The chake manifold, chake flow line, relief line, and chake lines are to be supported by metal stands and adequately anchored. The chake flow line, relief line, and chake lines shall be constructed as straight as possible and without sharp bends. Easy and sole access is to be maintained to the chake manifold. If deemed necessary, walkways and stainways shall be erected in and eround the chake manifold. All valves are to be selected for operation in the presence of ail, gas, and drilling fluids. The chake flow line valves and selief line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the detrick substructure. All other valves are to be equipped with bandles.

#### STRATA PRODUCTION COMPANY

FNRU Federal Com 22 23 III 15H SHL: 2100' FSL & 850' FEL

BHL: 1650' FSL & 100' FEL 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.

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

CONDITIONS

Action 113162

#### **CONDITIONS**

Operator:	OGRID:
STRATA PRODUCTION CO	21712
P.O. Box 1030	Action Number:
Roswell, NM 882021030	113162
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
kpickford	Operator is out of compliance with 5.9 for too many inactive wells. Operator must be in compliance with 5.9 prior to C-104 approval and putting this well into production.	6/6/2022
kpickford	Notify OCD 24 hours prior to casing & cement	6/6/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/6/2022
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	6/6/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	6/6/2022
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	6/6/2022