Form 3160-3 (June 2015) UNITED STATES		FORM APPRO OMB No. 1004 Expires: January 3	-0137
DEPARTMENT OF THE II BUREAU OF LAND MANA	NTERIOR	5. Lease Serial No.	
APPLICATION FOR PERMIT TO D	RILL OR REENTER	6. If Indian, Allotee or Trib	e Name
	EENTER	7. If Unit or CA Agreement	, Name and No.
	ther	8. Lease Name and Well No	D.
1c. Type of Completion: Hydraulic Fracturing Si	ngle Zone Multiple Zone		
2. Name of Operator		9. API Well No. 30-015	5-53901
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Explo	oratory
4. Location of Well (Report location clearly and in accordance v	vith any State requirements.*)	11. Sec., T. R. M. or Blk. ar	nd Survey or Area
At surface At proposed prod. zone			
14. Distance in miles and direction from nearest town or post offi	ce*	12. County or Parish	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 17. Sp	vacing Unit dedicated to this well	<u> </u>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 20. BI	LM/BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration	
	24. Attachments		
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the	ne Hydraulic Fracturing rule per	43 CFR 3162.3-3
Well plat certified by a registered surveyor.     A Drilling Plan.	Item 20 above).	tions unless covered by an existing	ng bond on file (se
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office		nformation and/or plans as may be	requested by the
25. Signature	Name (Printed/Typed)	Date	
Title	1	1	
Approved by (Signature)	Name (Printed/Typed)	Date	
Title	Office	1	
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	t holds legal or equitable title to those rig	hts in the subject lease which wo	ould entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mof the United States any false, fictitious or fraudulent statements of			artment or agency
		1	

APPROVED WITH CONDITIONS 

\*(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

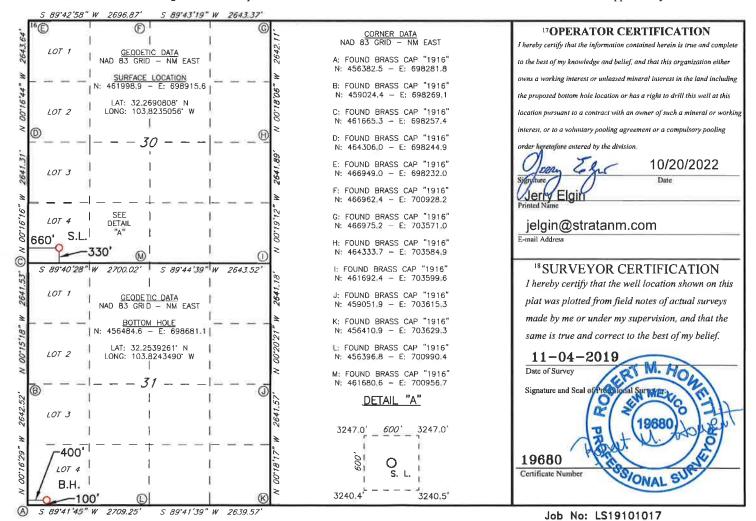
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number -015-5			<sup>2</sup> Pool Code <b>24750</b>		FORT	3PoolName TY NINER RIDGE DELAWARE					
<sup>4</sup> Property Co 334168	de			PAJARIT	5 Property No.	M 30/31 MM	ИL		<sup>6</sup> Well Number <b>7H</b>			
<sup>1</sup> OGRID <b>2171</b>	200			STRATA	B Operator N PRODUCTI	on compan	Y		<sup>9</sup> Elevation <b>3339</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/West line	County			
4	30	23S	31E		330	SOUTH	660	WEST	EDDY			
			11 ]	Bottom H	ole Location	If Different Fr	om Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
4	31	23S	31E		100	SOUTH	400	WEST	EDDY			
2 Dedicated Acres	s 13 Joint	or Infill 14	Consolidation	Code 15 O	rder No.				71			
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:Strate	a Production	Company	OGRID:	21712	Date		22 / 2023
II. Type: 🛛 Original	☐ Amendment	due to 19.15.27.9	9.D(6)(a) NMA	.C □ 19.15.27.9.D(	(6)(b) NMAC □	Other.	
If Other, please describe	e:						
<b>III. Well(s):</b> Provide the be recompleted from a second					wells proposed t	o be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	P	Anticipated roduced Water BBL/D
Pajarito 30 31 MML Fed		Sec 30-T23S-R3		800	1,200		2,200
Com			660' FWL				
V. Anticipated Schedu proposed to be recompl  Well Name	le: Provide the	e following informat	ion for each ne		vell or set of wel	ls propo	7.9(D)(1) NMAC] sed to be drilled or First Production Date
Pajarito 30 31 MML Fed		10/15/2023	11/15/2023	11/25/2023	11/30	2023	12/05/2023
VI. Separation Equipmed VII. Operational Practice Subsection A through Figure VIII. Best Managemed during active and plann	tices: Attaction of 19.15.27.8	ch a complete descr NMAC.	iption of the ac	ctions Operator wil	l take to comply	y with t	he requirements of

# Section 2 Enhanced Plan

			<u>/E APRIL 1, 2022</u>		
	2022, an operator tha complete this section.	t is not in compliance	e with its statewide natural ga	s capture requirement for the	applicable
	s that it is not require for the applicable rep	-	ction because Operator is in o	ompliance with its statewide r	natural gas
IX. Anticipated Na	tural Gas Production	ı:			
W	ell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Gas for the First Year	
Pajarito 30 31 MI	ML Fed Com #7		1,200	400,000	
X. Natural Gas Ga	thering System (NGC	GS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily C of System Segment Tie-	
Strata Production Co.	Forty Niner Ridge	Sec 30-T23S-R30E	12/05/2023	15,000,000	
production operation the segment or porticular the segment or porticular the segment or porticular the segment or porticular the segment or volume for the segment of the s	ns to the existing or place on of the natural gas gath. The natural gas gath from the well prior to the Operator \(\beta\) does \(\sigma\) g system(s) described s plan to manage prodety: \(\sigma\) Operator asser	anned interconnect of gathering system(s) to ering system \( \) will be the date of first product does not anticipate the above will continue to uction in response to to the confidentiality pure Subsection D of 19.15	the natural gas gathering syste which the well(s) will be consisted will not have capacity to getion.  That its existing well(s) connect of meet anticipated increases in the increased line pressure.  Suant to Section 71-2-8 NMS 27.9 NMAC, and attaches a few which we have capacity to get the connect of the increased line pressure.	cicipated pipeline route(s) connu(s), and the maximum daily chected.  Ather 100% of the anticipated red to the same segment, or port line pressure caused by the new A 1978 for the information pall description of the specific in	natural gas tion, of the w well(s).

# Section 3 - Certifications <u>Effective May 25, 2021</u>

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

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

**Well Shut-In.** □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

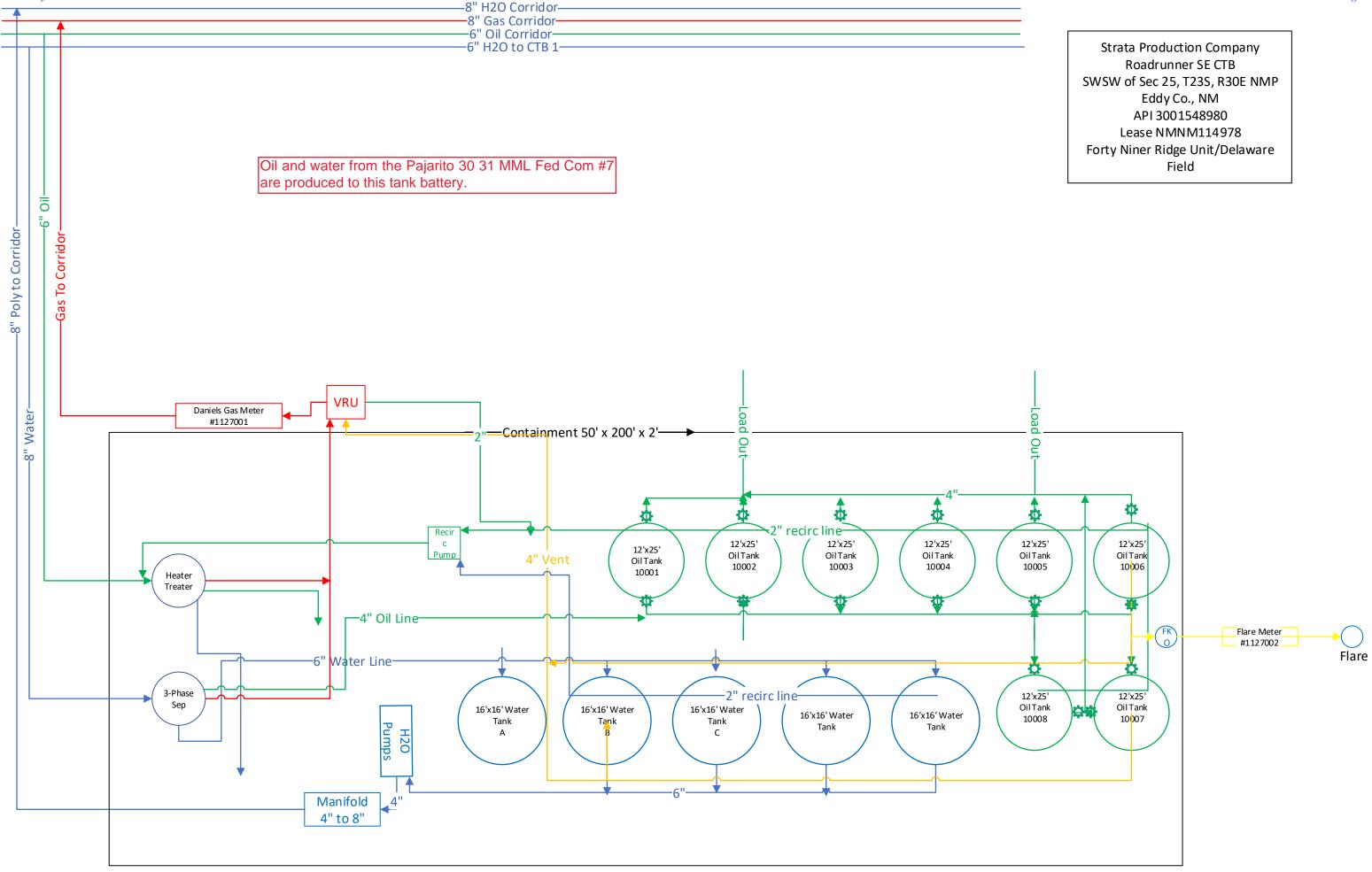
## **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Ozory Egy
Printed Name: Jelp Elgin
Title: Vice President Operations
E-mail Address: jelgin@stratanm.com
Date: 06/23/2023
Phone: 575-622-1127, ext 18
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Received by OCD: 6/20/2023 9:08:57 AM



### Strata Production Company Natural Gas Management Plan

Pajarito 30 31 MML Fed Com #7 Section 30-T23S-R31E Eddy County, New Mexico

#### Attachment to NMOCD Form NGMP

### VI. Separation Equipment

Separation equipment consists of a 6' X 20' X 250 psi 3 phase separator at the well site in Section 30-T23S-R31E that separates the gas, water, and oil. The gas is routed to a gas gathering line that follows Strata's corridor through the field to Common Tank Battery 2 in the SWNW of Section 23-T23S-R30E where the gas goes through a 2 phase separator to remove any residual liquids, then through a compressor and into an interconnect with Enterprise GD LLC located in the NENE of Section 22-T23S-R30E (all in Eddy County, NM).

The oil and water are routed to Common Tank Battery 1 in the SESE of Section 25-T23S-R30E (Eddy County) where the oil goes through a separator to remove any residual gas then through a heater treater to remove any residual water. The oil is then stored in 500 bbl steel tanks at the battery. The facility separator, heater treater, and tanks are tied into a vapor recover unit so any liberated gas is routed into the gas gathering line.

# VII. Strata Production Company will take the following actions to comply with regulations outlined in 19.15.27.8.

### A. Venting and Flaring of Natural Gas

Strata will maximize recovery of natural gas by minimizing the waste, as defined in 19.15.2 NMAC, of natural gas through venting and flaring. Strata will be connected to natural gas gathering systems with sufficient capacity to transport its produced natural gas. If there is inadequate capacity to transport the gas, the well(s) will be shut in until there is adequate capacity or other arrangements can be made to avoid waste.

### B. Venting and Flaring During Drilling Operations

Drilling rigs shall be equipped with a rig flare located at least 100 ft from the well. The flare will be utilized to combust any natural gas produced through drilling operations. Should gas be flared, an estimated volume will be reported as required by statutes. Gas will not be flared during normal drilling operations.

### C. Venting and Flaring During Completion Operations

Natural gas produced during completion operations will be flared. All gas produced will be directed to permanent separation equipment and into sales as soon as practical. If natural gas does not meet pipeline specifications, Strata may flare the gas for up to 60 days or until the gas meets pipeline specifications, whichever is sooner. Strata will properly size the flare which will be equipped with automatic ignition source. The gas will be sampled no less than twice per week and the gas will be routed through Strata's gathering system as soon as it meets pipeline specifications.

### D. Venting and Flaring During Production Operations

Natural gas will not be flared during normal production operations except as is allowed under 19.15.27.8 D (1)-(4). If capacity is inadequate, well(s) will be shut in until there is adequate capacity or other arrangements can be made to avoid waste except during emergency or malfunction situations. Flared volumes will be reported as required by statutes.

#### E. Performance Standards

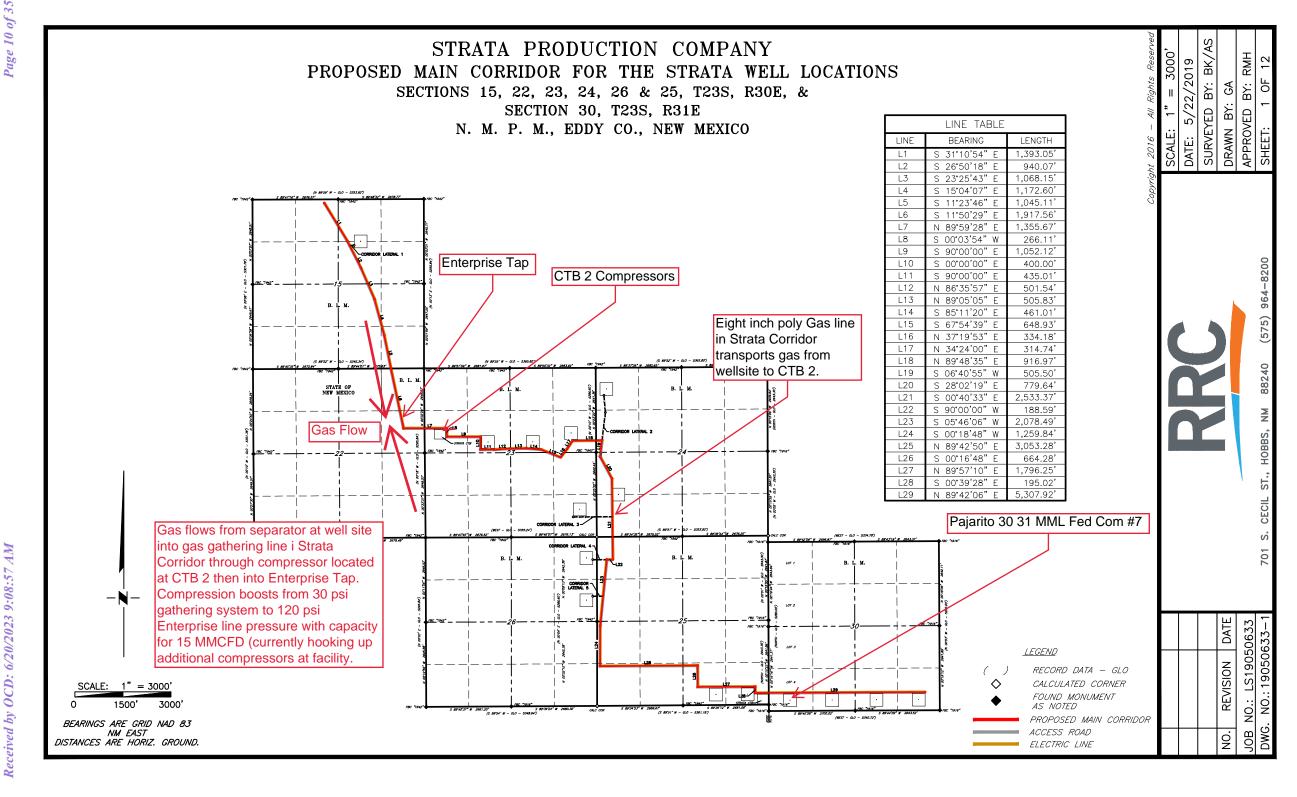
Strata will comply with the performance standards per 19.15.27.8 E (1)-(8). All equipment will be designed to accommodate anticipated volumes and pressures. Storage tanks will be equipped with automatic gauging equipment connected to Strata's SCADA system. Flares will be located at least 100 ft from wells and storage tanks and will be equipped with automatic ignition sources. Strata will conduct AVO inspections to comply with 19.15.27.8 E (5) (a) and 19.15.27.8 E (5) (b)-(c). Any emergency situations resulting in flaring will be resolved to minimize waste.

#### F. Measurement of Vented and Flared Natural Gas

Gas flared as the result of emergency of malfunction will be metered. Gas used beneficially during production operations will be metered or estimated. Should metering be impractical due to equipment malfunction or low flow, Strata will estimate the volume of gas vented or flared. All metering equipment will conform to industry standards and will not be equipped with a bypass around metering equipment except for the sole purpose of inspecting or servicing the metering equipment.

### VIII. Maintenance Activities

For maintenance activities involving production equipment and compression, venting will be limited to depressurization of the equipment to provide safe working conditions. In the event maintenance is required on pressurized equipment, associated producing wells will be shut in to minimize waste. Gas normally routed through a vapor recovery unit may be routed to flares to avoid venting for the maintenance of VRU's and associated equipment.





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

# **Drilling Plan Data Report** 06/19/2023

APD ID: 10400050925 Submission Date: 12/22/2022

**Operator Name: STRATA PRODUCTION COMPANY** 

Well Name: PAJARITO FEDERAL COM 30 31 MML Well Number: 7H

Well Type: OIL WELL Well Work Type: Drill

### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
585966	RUSTLER	3339	336	336	SALT	NONE	N
9506370	SALADO	2674	665	665	SALT	NONE	N
585968	BASE OF SALT	-640	3979	3979	ANHYDRITE, SALT	NONE	N
586015	LAMAR	-674	4013	4013	ANHYDRITE, LIMESTONE	NONE	N
9506356	BELL CANYON	-717	4056	4056	SANDSTONE	NATURAL GAS, OIL	Y
9506357	CHERRY CANYON	-1622	4961	4961	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
9506358	BRUSHY CANYON	-2945	6284	6284	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
586016	BONE SPRING	-4553	7892	7892	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 third party to 250 psi low, 3,000 psi high per Onshore Oil and Gas Order 2.

**Choke Diagram Attachment:** 

Pajarito\_Fed\_31\_MML\_\_7H\_Choke\_Diagram\_20221028110136.pdf

**BOP Diagram Attachment:** 

Pajarito\_Fed\_Com\_30\_31\_MML\_\_7H\_BOPE\_20221028110143.pdf

Pajarito\_Fed\_Com\_30\_31\_MML\_\_7H\_BOPE\_Description\_20221028110149.pdf

Well Name: PAJARITO FEDERAL COM 30 31 MML Well Number: 7H

# **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	3339	2889	450	H-40	48	ST&C	3.95	7.39	DRY	14.9	DRY	25
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4200	0	4200	3339	-861	4200	J-55	40	LT&C	1.41	1.81	DRY	3.8	DRY	2.7
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	13435	0	7789	3339	-4450	13435	N-80	23	BUTT	1.92	1.78	DRY	1.72	DRY	1.87

### **Casing Attachments**

Casing ID: 1 String SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Pajarito\_Fed\_Com\_30\_31\_MML\_7H\_Casing\_Worksheet\_20221221091351.pdf

Well Name: PAJARITO FEDERAL COM 30 31 MML Well Number: 7H

### **Casing Attachments**

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

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

Pajarito\_Fed\_Com\_30\_31\_MML\_7H\_Casing\_Worksheet\_20221221091405.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

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

Pajarito\_Fed\_Com\_30\_31\_MML\_7H\_Casing\_Worksheet\_20221221091327.pdf

### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	100	2.64	11	263	100	Class H	None
PRODUCTION	Tail		5200	1343 5	1725	1.43	13.2	2476	25	Class H	Salt, Gel, Extender, LCM
SURFACE	Lead		0	450	580	1.33	14.8	769	100	Class C	CaCl, LCM

INTERMEDIATE	Lead	0	3700	1180	1.91	12.9	2251	100	Class C Poz	Salt, Gel, Extender, LCM
--------------	------	---	------	------	------	------	------	-----	-------------	-----------------------------

Well Name: PAJARITO FEDERAL COM 30 31 MML Well Number: 7H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		3700	4200	120	1.34	14.8	157	65	Class C	LCM
PRODUCTION	Lead	5200	0	4700	605	2.54	11	1527	50	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		4700	5200	265	1.34	14.8	348	50	Class C	None

# **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

**Describe the mud monitoring system utilized:** Pason pit level monitor, hourly checks on mud weight and viscosity, regular checks on gel strength, pH, and solids content.

# **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	. PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	WATER-BASED MUD	8.5	8.9			10				Spud with fresh water and build mud while drilling.
450	4200	SALT SATURATED	10	10.5			10				Drill with brine water with LCM and gel sweeps.
4200	1343 5	WATER-BASED MUD	8.6	10.2			10				Drill with water based mud using sliders and gel sweeps in the lateral.

Well Name: PAJARITO FEDERAL COM 30 31 MML Well Number: 7H

### 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: 1646

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

Pajarito\_Fed\_Com\_30\_31\_MML\_7H\_H2S\_Plan\_20221220160410.pdf

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

Proposed horizontal/directional/multi-lateral plan submission:

Pajarito\_Fed\_Com\_30\_31\_MML\_\_7H\_Wellbore\_Diagram\_20221220160538.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Pajarito\_Fed\_Com\_30\_31\_MML\_7H\_NGMP\_20221221093521.pdf

Other Variance attachment:



Rustler @ 400' TVD Top Salt @ 832' TVD 1,000 2,000 3,000 Base of Salt @ 3,890' TVD 4,000 Bell Canyon @ 4,140' TVD 5,000 (4,996) DVT, D/O @ 5,200 Cherry Canyon @ 5,040' TVD 6,000 (5,987) Brushy Canyon @ 6,356' TVD 7,000 (6,978) 8,000 (7,781) 9,000 (7,789) 10,000 (7,789) 11,000 (7,789) 12,000 (7,789) 13,000 (7,789) 14,000 (7,789)

Last Upd	ated:	12/	20/20	)22	02:	51 F	PM						
Field Name				L	ease	Nan	1е				Well No.		
Forty Niner	Ridge			Р	ajari	to Fe	d Com	30	31 MN	ЛL	7H		
County			S	tate	)					PI N			
Eddy			N	lew	Mex	со			30	0-01	15-99999-00	000	
Version		sion	_										
	1 Wel												
GL (ft)	KB (ft)		Secti	on	To	vnsh	ip/Blo	ck	R	anç	ge/Survey		
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Operator					W	ell Ty	/pe		٧	Vell	Status		
Strata Prod	uction C	ю			0				F	end	ding		
Latitude						Lor	gitud	е					
					3080						-103.823	3505	
Dist. N/S (f	-	N/S	Dis	st. E		-	ir. E/V	<i>I</i>			From		
	30 FSL					60 F			Section	•			
Prop Num			Sp	ud [	Date		Com	p. D	ate	l	Plug Date		
Additional	Informa	ition											
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Prepared B	у		Upda		Ву			La					
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Hole Summ													
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	(in) (MI			0	(1412	450							
	12.2	50	4	50	-	4,200							
	8.7	50	4,2	00		3,435							
Tubular Su	mmary												
Date	Desc	riptio	on C	D (i	in)	Wt	Grad	e	Тор		Bottom	RL	
					(	lb/ft)			(MD f	-,	(MD ft)		
	Surfac	e Cas	sing	13.3	25	48.0	0 H-40	)	(		450	С	
	Interr	nedia Ising	ite	9.6	25	40.0	J-55	5		0	4,200	С	
		uctio	n	5.5	00	23.0	0 N-80	)		0	13,435	С	
		sing		0.0		_0.0				J	10,100		
Casing Cer	nent Su	ımma	ary										
C Date	No		Csg.			ор	Botte			М	emo	RL	
	Sx	30	OD (ir	<b>1)</b> .325		D ft)	(MD	π) 450				С	
	1,1			.625				700				С	
		20		.625		3,700		200				С	
	1,7			.500		5,200		435				С	
	1,7	25 05		.500		3,200	<u> </u>	433 700				С	
	6		J			4,700		200				С	
			5	500	,,		] ,	_00				J	
Tools/Proh	2	35		.500		-,						RI	
	2 lems S	35 u <b>mm</b>	ary	.500	<u> </u>		ın	1	Ton		Bottom		
Tools/Prob	2 lems S	35	ary	.500	OE (in	)	ID (in)		Top (MD f		Bottom (MD ft)	KI	
Date	lems S	ol Ty	rpe	.500	OE (in	)		00	(MD f				
Date	lems S	ol Ty	rpe	.500	OE (in	)	(in)	00	(MD f	t)	(MD ft)		
Date Formation	lems S	ol Ty	ary /pe //O ary	Гор	OE (in	)	(in)		(MD f	<b>t)</b> 200	<b>(MD ft)</b> 0		
Date Formation Forn	lems Si To D'	ol Ty	ary /pe //O ary	Гор VD f	OE (in 8.	750	(in) 0.00		(MD f	<b>t)</b> 200	<b>(MD ft)</b> 0		
Date Formation Form	lems Si To D'	ol Ty	ary /pe //O ary	Γop VD f	OE (in 8.	750 Rust	(in) 0.00	400'	(MD f 5,2 Comm	t) 200 nen	<b>(MD ft)</b> 0		
Formation Forn Rustler Top Salt	Zilems Silems Si	ol Ty	ary /pe //O ary	Гор VD f	OE (in 8.	750 Rust	(in) 0.00 ler @ 4 Salt @	100'	(MD f 5,2 Comm TVD 2' TVD	t) 200 nen	(MD ft) 0		
Formation Forn Rustler Top Salt Base of Salt	2 lems Si To D' Tops S nation	ol Ty	ary /pe //O ary	Гор /D f	OE (in 8. 400 832 890	Rust Top	(in) 0.00 ler @ 4 Salt @	400' 832 It @	(MD f 5,2 Comm TVD 2' TVD	t) 200 nent	(MD ft) 0		
Formation Form Rustler Top Salt Base of Salt Bell Canyon	2 lems Si To D' Tops Snation	ol Ty	ary /pe //O ary	Гор //D f	OE (in 8. 400 832 890 140	Rust Top	(in) 0.00 ler @ 4 Salt @ of Sa	400' 832 It @	(MD f 5,2 Comm TVD 2' TVD 3,890	t) 200 nent	(MD ft) 0 tts		
Formation Forn Rustler Top Salt Base of Salt Bell Canyon Cherry Cany	Zellems Sillems Sillem	ol Ty	ary /pe //O ary	3, 4, 5,	OE (in 8. 400 832 890 140 040	Rust Top Base Bell Cher	ler @ 4 Salt @ canyo Canyo	100' 832 It @ n @	TVD 3,890 4,140 1 @ 5,1	tt) 2000  nent  ) T'' 040	(MD ft) 0 ts VD VD ' TVD		
Formation Form Rustler Top Salt Base of Salt Bell Canyon	Zilems Silems Si	ol Ty	ary /pe //O ary	3, 4, 5,	OE (in 8. 400 832 890 140 040	Rust Top Base Bell Cher	ler @ 4 Salt @ canyo Canyo	100' 832 It @ n @	TVD 3,890 4,140 1 @ 5,1	tt) 2000  nent  ) T'' 040	(MD ft) 0 tts		

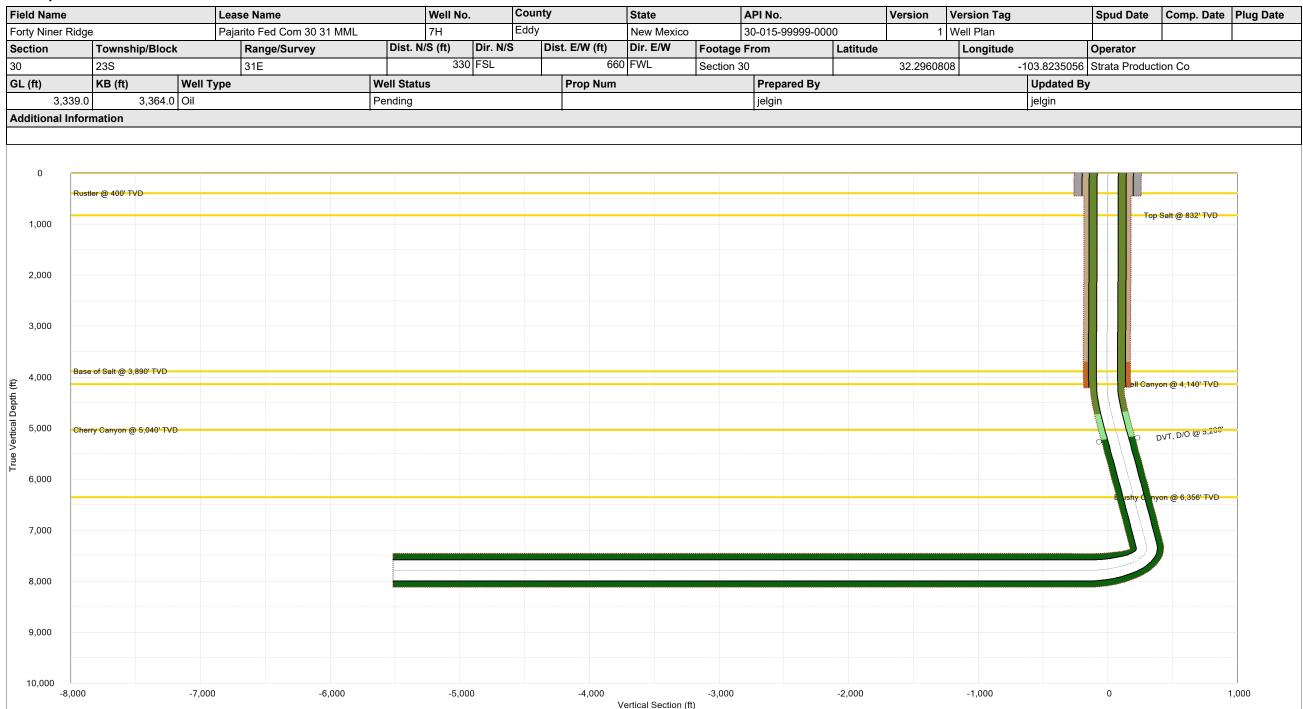
Last Up	e		:م ا	ase Nar	ne			Well No.	Count	v		State	e			<b>API N</b>	Ο.		
Forty Niner						0 31 MM		7H	Eddy	,			Mexic	0				99-000	00
Version	•	on Tag	J' 4.	janto i c	u 00111 0	O O I IVIIVI			Ludy		Spud Dat		Com			GL (ft		KB	
VEISIOII	1 Well	_									Spuu Da		Comp	). Dat			3,339		
0 41				In	(0			D:-4 N/O (64)	D:- N/0		D:-4 E04	I /\$4\	D:- F	04/					3,364.
Section		ip/Block			ge/Surve	ey .		Dist. N/S (ft)	Dir. N/S		Dist. E/W		Dir. E	/ <b>VV</b>		otage			
30	23S			31E				330	FSL			660	FWL		Se	ction 3			
Operator						Well St					ude		Long				Pro	p Num	
Strata Prod	luction Co					Pendin	9			2.29	960808		-103.8						
Other 1				Other	2			Other 3	3				C	Other	4				
Last Upda				Prep	ared By						Updated	d By							
12/20/2022	2:51 PM			jelgir	1						jelgin								
Additional	Informat	ion																	
Hole Sumr	nary																		
Date	Diam.	Тор	Bott	om						М	lemo								
	(in)	(MD ft)																	
	17.500		0	450															
	12.250			1,200															
	8.750	4,20	00 13	3,435															
Tubular Su	ımmary																		
Date	D	escriptio	n	No.	OD (in)		Grad	e Coupling	Тор		Bottom				М	emo			RL
				Ite		(lh/ft)			(MD ft)		(MD ft)								
		Casing		Jts	13.32	(lb/ft) 48.00	H-40	) STC	(MD ft)	0	(MD ft)	)							С
	Surface	•	a	Jts	13.32	48.00			(MD ft)	_	450								С
	Surface (	iate Casin	g	Jts	9.62	5 48.00 5 40.00	J-55	LTC	(MD ft)	_	4,200	)							С
Casing Ce	Surface Intermed	iate Casin on Casing	g	Jts		5 48.00 5 40.00	J-55	LTC	(MD ft)	_	450	)							
	Surface Intermed	iate Casin on Casing nmary			9.62 5.50	48.00 40.00 23.00	) J-55 ) N-80	b LTC Buttress		0 0	450 4,200 13,435	)				Mon			C
Casing Ce	Surface Intermed	iate Casing on Casing nmary Yield	Vol.	Shoe	9.62 5.50	48.00 40.00 23.00	) J-55 ) N-80	Bottom		0 0	4,200	)				Men	no		C
	Surface Intermed Production ment Surface No.	iate Casing on Casing nmary Yield (ft3/sk)			9.62 5.50 It Cs t) OD	48.00 40.00 23.00	) J-55 ) N-80	b LTC Buttress		0 0	450 4,200 13,435	)				Men	no		C
	Surface Intermed Production ment Surface No. Sx	nmary Yield (ft3/sk) 1.33	Vol. (ft3)	Shoe	9.623 5.500 It Cs OD 0	48.00 5 40.00 0 23.00 g. (N	J-55 N-80 Top ID ft)	Bottom (MD ft)		0 0	450 4,200 13,435	)				Men	no		C C
	Surface Intermed Production ment Surface No. Sx 580	iate Casing nmary Yield (ft3/sk) 1.33	Vol. (ft3)	Shoe	9.62 5.50 St) Cs OD 0 0 13 0 9	48.00 40.00 23.00 g. (in) (N	J-55 N-80 Top ID ft)	Bottom (MD ft)		0 0	450 4,200 13,435	)				Men	no		C C
Casing Cel	Surface Intermed Production Mo. Sx 580	riate Casing Casing Mary Yield (ft3/sk) 1.33 1.91 1.34	Vol. (ft3) 771 2,254	Shoe	9.62: 5.500 St Cs OD 0 0 13 0 9 0 9	g. (in) (N	J-55 N-80 Top ID ft)	Bottom (MD ft)  450 3,700 4,200		0 0	450 4,200 13,435	)				Men	no		C C RL C C
	Surface Intermed Production Ment Surface No. Sx 580 1,180	riate Casing nmary  Yield (ft3/sk)  1.33  1.91  1.34  1.43	Vol. (ft3) 771 2,254 161 2,467	Shoe	9.62 5.50 St Cs OD 0 0 13 0 9 0 9	48.00 40.00 23.00 23.00 (in) (N .325 .625	J-55 N-80 Top ID ft) 0 3,700	Bottom (MD ft) 450 3,700		0 0	450 4,200 13,435	)				Men	no		C C C C C
	Surface   Intermed   Production   No.   Sx   580   1,180   120   1,725   605	riate Casing nmary  Yield (ft3/sk)  1.33  1.91  1.34  1.43  2.54	Vol. (ft3) 771 2,254 161 2,467 1,537	Shoe	9.62: 5.50  It Cst) OD  0 13  0 9  0 9  0 5  0 5	9. (Na. 325) 625 625 625 500	Top ID ft) 0 0 3,700 0 0 0	Bottom (MD ft) 450 3,700 4,200 13,435 4,700		0 0	450 4,200 13,435	)				Men	no		C C C C C C
C Date	Surface       Intermed   Production       No.         Sx           1,180       1,725       605       265	riate Casing nmary  Yield (ft3/sk)  1.33  1.91  1.34  1.43  2.54  1.34	Vol. (ft3) 771 2,254 161 2,467	Shoe	9.62: 5.50  It Cst) OD  0 13  0 9  0 9  0 5  0 5	48.00 40.00 23.00 23.00 (in) (N .325 .625 .625	Top ID ft) 0 3,700	Bottom (MD ft)  450 3,700 4,200 13,435		0 0	450 4,200 13,435	)				Men	no		C C C C C
C Date	Surface       Intermed   Production       No.         Sx           1,180       1,725       605       265	riate Casing nary  Yield (ft3/sk)  1.33  1.91  1.34  1.43  2.54  1.34  mmary	Vol. (ft3) 771 2,254 161 2,467 1,537 355	Shoe Len. (f	9.62. 5.500  It Cs OD 0 13 0 9 0 9 0 5 0 5	g. (N. 325) 625 625 500 500	Top   0   3,700   5,200   0   4,700	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200	De	0 0 0	450 4,200 13,435 ription	)							C C C C C C
C Date	Surface       Intermed   Production       No.         Sx           1,180       1,725       605       265	riate Casing nmary  Yield (ft3/sk)  1.33  1.91  1.34  1.43  2.54  1.34	Vol. (ft3) 771 2,254 161 2,467 1,537 355	Shoe Len. (f	9.62: 5.50  It Cst) OD  0 13  0 9  0 9  0 5  0 5	9. (Na. 325) 625 625 625 500	Top ID ft) 0 0 3,700 0 0 0	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200	De	0 0 0	450 4,200 13,435	)				Men			C C C C C C
C Date	Surface     Intermed     Production     No.     Sx     580     1,180     1,725     605     265     Surface     Production     No.     Sx     580     1,725     605     506     506     507     508	riate Casing nary  Yield (ft3/sk)  1.33  1.91  1.34  1.43  2.54  1.34  mmary	Vol. (ft3) 771 2,254 161 2,467 1,537 355	Shoe Len. (f	9.62. 5.500  It Cs OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200	De	0 0 0	450 4,200 13,435 ription	)							C C C C C C
C Date  Tools/Prob  Date	Surface     Intermed     Production     No.     Sx     580     1,180     1,725     605     265     DV	iate Casing mary  Yield (ft3/sk)  1.33  1.91  1.34  1.43  2.54  1.34  Tool Typ	Vol. (ft3) 771 2,254 161 2,467 1,537 355	Shoe Len. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0	450 4,200 13,435 ription	)							C C C C C C RL
C Date  Tools/Prob  Date	Surface     Intermed     Production     No.     Sx     580     1,180     1,725     605     265     DV	riate Casing mary  Yield (ft3/sk)  1.33  1.91  1.43  2.54  1.34  Tool Typ  tool (drille	Vol. (ft3) 771 2,254 161 2,467 1,537 355	Shoe Len. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0 esci	450 4,200 13,435 ription	)							C C C C C C C RL
Tools/Prob Date	Surface     Intermed     Production     No.	riate Casing mary  Yield (ft3/sk)  1.33  1.91  1.43  2.54  1.34  Tool Typ  tool (drille	Vol. (ft3) 771 2,254 161 2,467 1,537 355 De	Shoe CLen. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0 esci	450 4,200 13,435 ription	)							C C C C C C C RL
Tools/Prob Date Formation Form	Surface     Intermed     Production     No.	riate Casing mary  Yield (ft3/sk)  1.33  1.91  1.43  2.54  1.34  Tool Typ  tool (drille	Vol. (ft3) 771 2,254 161 2,467 1,537 355 De	Shoe Len. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0 esci	450 4,200 13,435 ription	)							C C C C C C C RL
Tools/Prob Date Formation Form Rustler	Surface of Intermed Production Mo. Sx 580 1,180 120 1,725 605 265 Diems Surface of DV Top Sum ation Narrows	riate Casing mary  Yield (ft3/sk)  1.33  1.91  1.43  2.54  1.34  Tool Typ  tool (drille	Vol. (ft3) 771 2,254 161 2,467 1,537 355	Shoe Len. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0 esci	450 4,200 13,435 ription	)							C C C C C C C C C C C C C C C C C C C
Tools/Prob Date  Formation Form Rustler Top Salt Base of Sal	Surface of Intermed Production  No. Sx  580  1,180  120  1,725  605  265  DIems Surface of The S	riate Casing mary  Yield (ft3/sk)  1.33  1.91  1.43  2.54  1.34  Tool Typ  tool (drille	Vol. (ft3) 771 2,254 161 2,467 1,537 355	Shoe Len. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0 esci	450 4,200 13,435 ription	)							C C C C C C C RL
Tools/Prob Date  Formation Form  Rustler  Top Salt  Base of Sal  Bell Canyor	Surface	riate Casing mary  Yield (ft3/sk)  1.33  1.91  1.43  2.54  1.34  Tool Typ  tool (drille	Vol. (ft3) 771 2,254 161 2,467 1,537 355 De d out)	Shoe & Len. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0 esci	450 4,200 13,435 ription	)							C C C C C C RL
Tools/Prob Date  Formation Form  Rustler Top Salt Base of Sal	Surface of Intermed Production Mo. Sx 580 1,180 265 265 Diems Surface of DV Top Sum ation Narroyon	riate Casing mary  Yield (ft3/sk)  1.33  1.91  1.43  2.54  1.34  Tool Typ  tool (drille	Vol. (ft3) 771 2,254 161 2,467 1,537 355 ee d out)	Shoe Len. (f	9.62.  5.50  It Cs t) OD 0 13 0 9 0 9 0 5 0 5 0 5	g. (N 325 .625 .500 .500	Top (MD ft)	Bottom (MD ft)  450 3,700 4,200 13,435 4,700 5,200  Bottom (MD ft)	De	0 0 0 esci	450 4,200 13,435 ription	)							C C C C C C C RL

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Bone Springs

7,986

### Last Updated: 12/20/2022 02:51 PM



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# **Last Updated:** 12/20/2022 2:51:19 PM

Field Name Lease Na		se Name W		Well No. API No.		API No.		Version	Ver	Version Tag				
Forty Niner Ridge	;		Pajarito Fe	ed Co	m 30 31 MML	7H		30-015-99999-0	0000	1	Well Plan			
Section	Tow	nship/Bloc	k	Ran	ge/Survey		County		State			GL (ft) KB (f		KB (ft)
30	23S			31E			Eddy	New Mex		xico	ico		39.0	3,364.0
Target Azim. (deg) La		Latitude	titude		Longitude		Operator		V	ell Type		-	Well Statu	s
		32.2960808	3		-103.8235056		Strata	Production Co	О	i			Pending	

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
117.4	0.0	142.0	117.4	0.0	0.0	0.0	0.01
213.6	0.0	142.0	213.6	0.0	0.0	0.0	0.01
308.6	0.0	142.0	308.6	-0.1	-0.1	0.0	0.01
402.2 494.4	0.0 0.0	142.0 142.0	402.2 494.4	-0.1 -0.1	-0.1 -0.1	0.1 0.1	0.01 0.01
603.4	0.0	142.0	603.4	-0.1	-0.1	0.1	0.01
692.7	0.1	142.0	692.7	-0.3	-0.3	0.2	0.01
798.2	0.1	142.0	798.2	-0.3	-0.3	0.3	0.01
901.8	0.1	142.0	901.8	-0.4	-0.4	0.3	0.01
986.7	0.1	142.0	986.7	-0.5	-0.5	0.4	0.01
1,086.9	0.1	142.0	1,086.9	-0.6	-0.6	0.5	0.01
1,185.3	0.1	142.0	1,185.3	-0.8	-0.8	0.6	0.01
1,297.8	0.1	142.0	1,297.8	-0.9	-0.9	0.7	0.01
1,392.2	0.1	142.0	1,392.2	-1.1	-1.1	0.8	0.01
1,484.9	0.1	142.0	1,484.9	-1.2	-1.2	0.9	0.01
1,590.8	0.1	142.0	1,590.8	-1.4	-1.4	1.1	0.01
1,679.7	0.1	142.0	1,679.7 1,781.2	-1.6	-1.6	1.2	0.01
1,781.2 1,880.3	0.1 0.1	142.0 142.0	1,781.2	-1.7 -1.9	-1.7 -1.9	1.4 1.5	0.01 0.01
1,977.2	0.1	142.0	1,977.2	-2.2	-2.2	1.7	0.01
2,071.7	0.2	142.0	2,071.7	-2.4	-2.4	1.8	0.01
2,177.0	0.2	142.0	2,177.0	-2.6	-2.6	2.0	0.01
2,279.4	0.2	142.0	2,279.4	-2.8	-2.8	2.2	0.01
2,378.9	0.2	142.0	2,378.8	-3.1	-3.1	2.4	0.01
2,475.5	0.2	142.0	2,475.5	-3.3	-3.3	2.6	0.00
2,569.3	0.2	142.0	2,569.3	-3.6	-3.6	2.8	0.00
2,671.5	0.2	142.0	2,671.5	-3.8	-3.8	3.0	0.00
2,770.2	0.2	142.0	2,770.2	-4.1	-4.1	3.2	0.00
2,865.5	0.2	142.0	2,865.5	-4.4	-4.4	3.4	0.00
2,967.5	0.2	142.0	2,967.4	-4.6	-4.6	3.6	0.00
3,065.3	0.2	142.0	3,065.3	-4.9	-4.9	3.8	0.01
3,159.1	0.2	142.0	3,159.1	-5.1	-5.1	4.0	0.01
3,257.8 3,360.0	0.2 0.1	142.0 142.0	3,257.8 3,360.0	-5.3 -5.6	-5.3 -5.6	4.2 4.3	0.01 0.02
3,456.9	0.1	142.0	3,456.8	-5.7	-5.7	4.5	0.03
3,555.7	0.1	142.0	3,555.7	-5.9	-5.9	4.6	0.04
3,655.3	0.0	142.0	3,655.3	-6.0	-6.0	4.7	0.05
3,748.0	0.0	38.0	3,748.0	-6.0	-6.0	4.7	0.05
3,851.5	0.1	312.1	3,851.5	-5.9	-5.9	4.6	0.14
3,945.5	0.2	328.0	3,945.5	-5.6	-5.6	4.4	0.11
4,044.3	0.5	319.0	4,044.3	-5.1	-5.1	4.0	0.25
4,142.8	0.8	323.8	4,142.8	-4.3	-4.3	3.4	0.31
4,242.2	1.4	321.0	4,242.2	-2.8	-2.8	2.2	0.65
4,339.1	2.8	322.5	4,339.0	0.0	0.0	0.0	1.37
4,441.9	5.1	322.1	4,441.5	5.5	5.5	-4.3	2.24
4,542.7	5.9	322.1	4,541.9	13.1	13.1	-10.2	0.83
4,639.3 4,743.4	6.8 7.0	322.0 322.0	4,637.9	21.6	21.6	-16.7	0.95
4,840.5	7.5	322.0	4,741.3 4,837.5	31.4 41.0	31.4 41.0	-24.4 -31.9	0.15 0.53
4,940.2	7.4	322.0	4,936.4	51.2	51.2	-31.9	0.33
5,041.2	7.7	322.0	5,036.6	61.6	61.6	-48.1	0.10
5,142.2	7.5	322.0	5,136.6	72.2	72.2	-56.3	0.20
5,241.5	7.8	322.0	5,235.1	82.7	82.7	-64.5	0.31
5,347.7	7.6	322.0	5,340.3	93.9	93.9	-73.3	0.23
5,439.8	7.9	322.0	5,431.5	103.7	103.7	-81.0	0.29
5,547.9	7.6	322.0	5,538.6	115.2	115.2	-89.9	0.25
5,650.5	7.9	322.0	5,640.4	126.0	126.0	-98.4	0.25
5,746.2	7.6	322.0	5,735.2	136.2	136.2	-106.4	0.29
5,846.2	7.8	322.0	5,834.2	146.7	146.7	-114.6	0.25
5,950.5	7.5	322.0	5,937.6	157.7	157.7	-123.2	0.28
6,045.4 6,143.9	7.8 7.5	322.0 322.0	6,031.7 6,129.3	167.6	167.6 177.9	-131.0	0.25 0.29
6,143.9	7.5	322.0 322.0	6,129.3 6,230.5	177.9 188.6	177.9 188.6	-139.0 -147.3	0.29
6,351.7	7.4	322.0	6,335.3	199.5	199.5	-147.3 -155.9	0.23
6,445.3	7.7	322.0	6,428.1	209.2	209.2	-163.5	0.28
6,541.7	7.4	322.0	6,523.7	219.2	219.2	-171.3	0.30
6,640.9	7.6	322.0	6,622.1	229.3	229.3	-179.2	0.24
6,743.1	7.3	322.0	6,723.3	239.8	239.8	-187.4	0.29
6,848.2	7.6	322.0	6,827.5	250.5	250.5	-195.8	0.22
6,956.2	7.3	322.0	6,934.7	261.5	261.5	-204.4	0.27
7,048.6	7.5	322.0	7,026.3	270.8	270.8	-211.7	0.26
7,143.1	7.2	322.0	7,120.0	280.4	280.4	-219.1	0.31
www.WellShado	w.com	46.00 D16					Page 4 of 5

www.WellShadow.com Released to Imaging: 6/23/2023 3:46:29 PM

Received by OCD Measured Depth (ft)	: 6/20/2023 9:08: Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W)	Page 21 of 3 DLS (deg/100 ft)
7,239.8	7.5	322.0	7,215.9	290.1	290.1	-226.7	0.25
7,338.7	7.2	322.0	7,314.0	300.0	300.0	-234.5	0.29
7,370.8	3.8 4.7	284.9 219.7	7,346.0	301.9	301.9	-236.7	14.67
7,402.6 7,434.1	8.5	196.2	7,377.7 7,409.0	301.1 297.9	301.1 297.9	-238.6 -240.1	14.72 14.59
7,465.5	12.8	188.0	7,439.9	292.2	292.2	-240.1	14.47
7,496.9	17.2	184.1	7,470.1	284.1	284.1	-242.0	14.21
7,528.2	21.5	181.9	7,499.7	273.7	273.7	-242.6	14.00
7,559.6	25.8	180.6	7,528.4	261.2	261.2	-242.8	13.70
7,591.0	30.0	180.3	7,556.2	246.4	246.4	-242.9	13.42
7,622.7	34.2	178.6	7,583.0	229.6	229.6	-242.8	13.46
7,654.5	38.3	179.2	7,608.7	210.9	210.9	-242.4	12.99
7,685.6	42.2	178.0	7,632.4	190.8	190.8	-241.9	12.98
7,717.8	46.3	178.8	7,655.5	168.3	168.3	-241.3	12.64
7,749.4	50.2	177.9	7,676.5	144.8	144.8	-240.6	12.58
7,780.3	54.0	178.6	7,695.5	120.4	120.4	-239.9	12.38
7,812.5	57.9	178.0	7,713.5	93.7	93.7	-239.1	12.26
7,844.0	61.7	178.7	7,729.4	66.5	66.5	-238.3	12.16
7,875.0	65.3	178.2 179.0	7,743.2 7,755.4	38.8 9.9	38.8 9.9	-237.6	11.99
7,906.3 7,938.1	69.0 72.7	179.0 178.5	7,765.8	-20.0	-20.0	-236.8 -236.2	11.95 11.68
7,969.3	76.3	178.3	7,763.8	-20.0 -50.1	-20.0 -50.1	-235.6	11.69
8,001.0	79.8	179.0	7,774.2	-81.1	-30.1 -81.1	-235.2	11.33
8,033.3	79.8 83.4	179.0 179.8	7,785.4	-81.1 -113.1	-81.1 -113.1	-233.2 -234.8	11.33
8,064.0	86.7	179.8	7,788.1	-113.1 -143.7	-113.1 -143.7	-234.6 -234.6	10.87
8,095.4	90.0	179.7	7,789.0	-175.0	-175.0	-234.4	10.57
8,204.1	90.0	179.7	7,789.0	-283.8	-283.8	-233.8	0.02
8,303.0	90.0	179.7	7,789.0	-382.6	-382.6	-233.4	0.02
8,401.9	90.0	179.8	7,789.0	-481.5	-481.5	-233.0	0.02
8,500.8	90.0	179.8	7,789.0	-580.4	-580.4	-232.6	0.02
8,599.6	90.0	179.8	7,788.9	-679.3	-679.3	-232.2	0.02
8,698.5	90.0	179.8	7,788.9	-778.1	-778.1	-231.9	0.02
8,797.4	90.0	179.8	7,788.9	-877.0	-877.0	-231.6	0.02
8,896.3	90.0	179.9	7,788.9	-975.9	-975.9	-231.4	0.02
8,995.1	90.0	179.9	7,788.9	-1,074.8	-1,074.8	-231.2	0.02
9,094.0	90.0	179.9	7,788.9	-1,173.6	-1,173.6	-231.0	0.02
9,192.9	90.0	179.9	7,788.9	-1,272.5	-1,272.5	-230.8	0.02
9,291.8	90.0	180.0	7,788.9	-1,371.4	-1,371.4	-230.7	0.09
9,390.6	90.0	179.9	7,788.9	-1,470.3	-1,470.3	-230.6	0.14
9,489.5	90.0	180.0	7,788.9	-1,569.1	-1,569.1	-230.5	0.14
9,588.4	90.0	179.9	7,788.9	-1,668.0	-1,668.0	-230.4	0.08
9,687.3	90.0	180.0	7,788.9	-1,766.9	-1,766.9	-230.3	0.08
9,786.2	90.0	180.0	7,788.9	-1,865.8	-1,865.8	-230.3	0.00
9,885.0	90.0	180.0	7,788.9	-1,964.6	-1,964.6	-230.3	0.00
9,983.9 10,082.8	90.0 90.0	180.0 180.0	7,788.9 7,788.9	-2,063.5 -2,162.4	-2,063.5 -2,162.4	-230.3 -230.3	0.00 0.00
10,181.7	90.0	180.0	7,788.9	-2,162.4	-2,162.4	-230.3	0.00
10,181.7	90.0	180.0	7,788.9	-2,360.2	-2,360.2	-230.3	0.00
10,280.3	90.0	180.1	7,788.9	-2,459.0	-2,459.0	-230.4	0.09
10,478.3	90.0	180.0	7,788.9	-2,557.9	-2,557.9	-230.5	0.09
10,577.2	90.0	180.1	7,788.9	-2,656.8	-2,656.8	-230.6	0.12
10,676.0	90.0	180.0	7,788.9	-2,755.7	-2,755.7	-230.7	0.12
10,774.9	90.0	180.1	7,788.9	-2,854.5	-2,854.5	-230.8	0.15
10,873.8	90.0	180.0	7,788.9	-2,953.4	-2,953.4	-230.9	0.15
10,972.7	90.0	180.2	7,788.9	-3,052.3	-3,052.3	-231.1	0.17
11,071.5	90.0	180.0	7,788.9	-3,151.2	-3,151.2	-231.2	0.17
11,170.4	90.0	180.2	7,788.9	-3,250.0	-3,250.0	-231.4	0.18
11,269.3	90.0	180.0	7,788.9	-3,348.9	-3,348.9	-231.5	0.18
11,368.2	90.0	180.2	7,788.9	-3,447.8	-3,447.8	-231.7	0.19
11,467.0	90.0	180.0	7,788.9	-3,546.7	-3,546.7	-231.9	0.19
11,565.9	90.0	180.2	7,788.9	-3,645.5	-3,645.5	-232.0	0.20
11,664.8	90.0	180.0	7,789.0	-3,744.4	-3,744.4	-232.2	0.20
11,763.7	90.0	180.2	7,789.0	-3,843.3	-3,843.3	-232.4	0.20
11,862.6	90.0	180.0	7,789.0	-3,942.2	-3,942.2	-232.6	0.20
11,961.4	90.0	180.2	7,789.0	-4,041.0	-4,041.0	-232.7	0.20
12,060.3	90.0	180.0	7,789.0	-4,139.9	-4,139.9	-232.9	0.20
12,159.2	90.0	180.2	7,789.0	-4,238.8 4,237.7	-4,238.8	-233.0	0.19
12,258.1	90.0	180.0	7,789.0	-4,337.7	-4,337.7	-233.2	0.19
12,356.9 12,455.8	90.0 90.0	180.2 180.0	7,789.0 7,789.0	-4,436.5 -4,535.4	-4,436.5 -4,535.4	-233.4 -233.5	0.17 0.17
12,455.8	90.0	180.0	7,789.0 7,789.0	-4,535.4 -4,634.3	-4,535.4 -4,634.3	-233.5 -233.6	0.17
12,653.6	90.0	180.2 180.0	7,789.0 7,789.0	-4,634.3 -4,733.2	-4,634.3 -4,733.2	-233.6 -233.8	0.16
12,742.6	90.0	180.0 180.1	7,789.0 7,789.0	-4,/33.2 -4,822.2	-4,/33.2 -4,822.2	-233.8 -233.9	0.16
12,742.6	90.0	180.1	7,789.0 7,789.0	-4,822.2 -4,921.0	-4,822.2 -4,921.0	-233.9 -234.0	0.13
12,940.3	90.0	180.1	7,789.0	-4,921.0 -5,019.9	-5,019.9	-234.1	0.13
13,039.2	90.0	180.0	7,789.0	-5,118.8	-5,118.8	-234.2	0.10
13,138.1	90.0	180.0	7,789.0	-5,217.7	-5,217.7	-234.2	0.00
13,236.9	90.0	180.0	7,789.0	-5,316.5	-5,316.5	-234.2	0.00
13,230.9	90.0	180.0	7,789.0	-5,415.4	-5,415.4	-234.2	0.00
11.11101	70.0	180.0	7,789.0	-5,514.3	-5,514.3	-234.2	0.00

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Strata Production Company
WELL NAME & NO.: Pajarito Federal Com 30 31 MML 7H
LOCATION: Sec 30-23S-31E-NMP
COUNTY: Eddy County, New Mexico

COA

H2S	• Yes	O No	
Potash	O None	Secretary	<b>⊙</b> R-111-P
Cave/Karst Potential	• Low	Medium	C High
Cave/Karst Potential	Critical		
Variance	None	C Flex Hose	Other
Wellhead	Conventional	Multibowl	O Both
Other	☐ 4 String Area	☐ Capitan Reef	□WIPP
Other	Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>▼</b> COM	□ Unit

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Cherry Canyon and Brushy Canyon** formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### **B. CASING**

- 1. The **13-3/8** inch surface casing shall be set at approximately 450 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

# Intermediate casing shall be kept fluid filled to meet BLM's minimum collapse requirement.

- 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>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.

### 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
    - Notify the BLM when moving in and removing the Spudder Rig.

- Notify the BLM when moving in the 2<sup>nd</sup> 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.
- 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.

- 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 cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 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

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

Pajarito Fed 30 31 MML 7H Section 30 T23S, R31E

SHL: 330' FSL & 660' FWL of Sec 30 BHL: 100' FSL & 400' FWL of Sec 31

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<sub>2</sub>S).
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the 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 H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

### II. <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 H2S 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

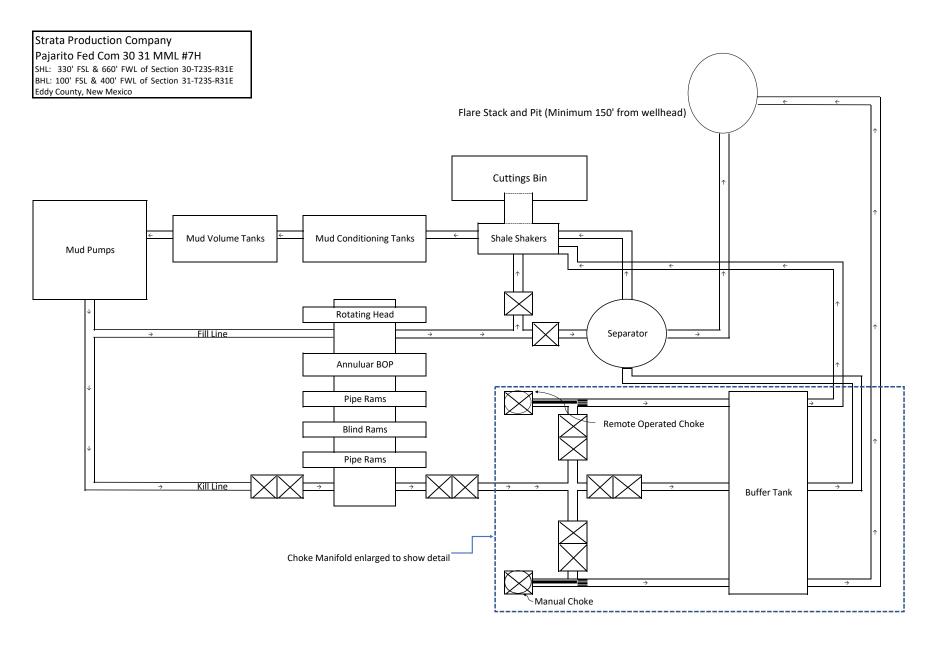
**Eddy County Sheriff's Office** 

# **EMERGENCY NUMBERS**

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

575-887-7551

Eddy County Sherini's Office		373-007-7331
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
Mosaic Potash Carlsbad		575-887-2871
Strata Office		575-622-1127
Jerry Elgin		575-622-1127 x18
Cheyenne Scharf		307-360-3062
Rygel Russell		575-626-1479
Pilar Mendoza		575-626-8161
Mitch Krakauskas		575-622-1127 x23



#### STRATA PRODUCTION COMPANY

Pajarito Fed Com 30 31 MML #7H SHL: 330' FSL & 360' FWL of Sec 30 BHL: 100' FSL & 400' FWL of Sec 31

Sec 30-T23S-R31E 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 230323

### **CONDITIONS**

Operator:	OGRID:
STRATA PRODUCTION CO	21712
P.O. Box 1030	Action Number:
Roswell, NM 882021030	230323
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	6/23/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/23/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/23/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	6/23/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/23/2023
ward.rikala	Strata Production Company is currently out of compliance under the NMOCD Rule 5.9 Compliance. As such the well can not be produced until Strata is in compliance with Rule 5.9.	6/23/2023