Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED	
OMB No. 1004-0137	
Expires: October 31, 20	21

5.	Lease	Serial	No

DOK	EAU OF LAND MANAGEMENT			
Do not use this t	IOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee or	Tribe Name
	TRIPLICATE - Other instructions on page		7. If Unit of CA/Agree	ment, Name and/or No.
1. Type of Well	TRIPLICATE - Other Instructions on pag	<i>e</i> 2	-	
Oil Well Gas V	Vell Other		8. Well Name and No.	
2. Name of Operator			9. API Well No.	
3a. Address	2h Phona No.	(include area code)	10. Field and Pool or E	vnloratory Area
Ja. Address	30. Filone No.	(include area code)	10. I leid and I ool of E	Apiolatoly Alea
4. Location of Well (Footage, Sec., T., F.	R.,M., or Survey Description)		11. Country or Parish,	State
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	TICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		TYPE OF AC	CTION	
Notice of Intent	Acidize Deep	en Pro	duction (Start/Resume)	Water Shut-Off
	Alter Casing Hydr	~ <u>—</u>	lamation	Well Integrity
Subsequent Report			omplete	Other
Final Abandonment Notice		=	nporarily Abandon ter Disposal	
	peration: Clearly state all pertinent details, i			11
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)			
		Title		
Signature		Date		
Signature				
	THE SPACE FOR FED	ERAL OR STATE O	FICE USE	
Approved by				
		Title	D	Pate
	hed. Approval of this notice does not warran equitable title to those rights in the subject leaduct operations thereon.			
	3 U.S.C Section 1212, make it a crime for an ents or representations as to any matter with		llfully to make to any dep	partment or agency of the United States

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

# **Additional Information**

#### **Location of Well**

0. SHL: SWNW / 2110 FNL / 460 FWL / TWSP: 23S / RANGE: 30E / SECTION: 23 / LAT: 32.2919494 / LONG: -103.8588343 ( TVD: 0 feet, MD: 0 feet ) PPP: SWNW / 2110 FNL / 460 FWL / TWSP: 23S / RANGE: 30E / SECTION: 23 / LAT: 32.2919494 / LONG: -103.8588343 ( TVD: 5890 feet, MD: 5890 feet ) PPP: SWSW / 0 FSL / 772 FWL / TWSP: 23S / RANGE: 30E / SECTION: 11 / LAT: 32.31229 / LONG: -103.857795 ( TVD: 7290 feet, MD: 14987 feet ) PPP: SWSW / 0 FSL / 549 FWL / TWSP: 23S / RANGE: 30E / SECTION: 14 / LAT: 32.2977476 / LONG: -103.8585805 ( TVD: 7290 feet, MD: 9688 feet ) BHL: NWNW / 100 FNL / 990 FWL / TWSP: 23S / RANGE: 30E / SECTION: 11 / LAT: 32.3265575 / LONG: -103.8570876 ( TVD: 7290 feet, MD: 19009 feet )

# **Strata Production Company**

# Oscar 23 11 EDI Fed Com #11H

Section 23 Twp 23S, Range 30E SHL: 2110' FNL & 460' FWL of Sec 23 BHL: 100' FNL & 990' FWL of Sec 11

Hole	Casing I	<u>Interval</u>					SF	SF	SF Joint	SF Body
Size	<u>From</u>	<u>To</u>	Csg Size	<u>Weight</u>	<u>Grade</u>	Connection	<u>Collapse</u>	<u>Burst</u>	Tension	<u>Tension</u>
17.5	0	450	13.375	48	API	STC	3.95	7.39	14.9	25.0
12.25	0	3,850	9.375	39	API	Wedge 513	2.38	4.66	5.53	9.39
8.5	0	7,000	7.0	29	API	Buttress	2.81	3.08	2.28	2.22
8.5	7,000	19,009	5.0	18	API	Buttress	4.26	2.23	2.68	2.80
<b>BLM Min</b>	imum 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	Υ
(loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum of 1/3 fluid filled to avoid approaching the collapse pressure	Υ
rating of the casing?	
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	NA
previous casing?	
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

Page 5 of 17

Received by OCD: 2/19/2024 9:49:38 AM (TVD) 2,000 Base of Salt @ 3,552' TVD Lamar @ 3,782' TVD Bell Canyon @ 3,757' TVD 4,000 Cherry Canyon @ 4,694' TVD Brushy Canyon @ 5,998' TVD 6,000 8,000 (7,290) 10,000 (7,290) 12,000 (7,290) 14,000 (7,290) 16,000 (7,290) 18,000 (7,290) 20,000 (7,290)

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Rus Sal Sas Sel Lar	ado se of Salt I Canyon nar	on/				3 4	3,78	2 Lai 4 Ch	ma err	r @ 3,7	82' on (	TVD ② 4,694	' TVD	

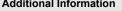
www.WellShadow.com Page 1 of 4

Field Nam	е			Lease	Nam	е		· ·	Well No.	County	,		State	е		1	API No			
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	850			624			9.375	0	3,350											С
	2,770			933			5.000	7,000	19,009											C
	230	1.42		327			7.000	5,200	7,000											С
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Brushy Car	-			5,99																
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# Last Updated: 2/2/2024 01:27 PM

Field Name		Leas	se Name		Well No.	Cou	nty	State		API No.		Version	Version Tag		Spud Date	Comp. Date	Plug Date
Forty Niner Ridge	)	Osca	ar 23 11 EDI Federal Com		11H	Edd	у	New Mexico	;	30-015-54371-000	1	2	Five Inch Casing	g			
Section	Township/Block		Range/Survey	Dist. I	N/S (ft)	Dir. N/S	Dist. E/W (ft)	Dir. E/W	Footage I	From	Latitude		Longitude		Operator		
23	23S		30E		2110	FNL	46	0 FWL	Section 23	3		32.291949	4 -1	03.8588343	Strata Producti	ion Co	
GL (ft)	KB (ft)	Well Type		Well Stat	us		Prop Num		•	Prepared By	•		•	Updated By	/		
3,219.0	3,244.0	Oil		Pending						jelgin				jelgin			
Additional Inform	nation		-				<u>.</u>										





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Released to Imaging: 7/11/2025 10:01:20 AM

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# Last Updated: 2/2/2024 1:27:53 PM

Field Name			Lease Na	me		We	II No.	API No.			Version	Version Tag			
Forty Niner Ridge			Oscar 23	11 EC	I Federal Com	111	1	30-015-54371-0	0001		2	Five	Inch Ca	sing	
Section	Tow	nship/Bloc	k	Ran	ge/Survey		County		State				GL (ft)		KB (ft)
23	23S			30E			Eddy		New M	lexic	ю.		3,219.0		3,244.0
Target Azim. (de	g)	Latitude			Longitude		Oper	ator		Well	Туре		Well	Statu	ıs
		32.2919494	4		-103.8588343		Strata	Production Co		Oil			Pend	ding	
Additional Inform	natio	n							•						

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S)	Coordinate E (-W)	DLS (deg/100 ft)
Treasured Depth (11)	memation (deg)	rizimum (ucg)	1 (1)	vertical section (ii)	(ft)	(ft)	BES (deg/100 ft)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
6,813.0	0.0	0.0	6,813.0	0.0	0.0	0.0	0.00
6,843.0	3.6	2.0	6,843.0	0.9	0.9	0.0	12.01
6,872.9	7.2	2.0	6,872.8	3.8	3.8	0.1	12.01
6,902.9	10.8	2.0	6,902.4	8.4	8.4	0.3	12.01
6,932.9	14.4	2.0	6,931.6	15.0	15.0	0.5	12.01
6,962.9	18.0	2.0	6,960.4	23.3	23.3	0.8	12.01
6,992.8	21.6	2.0	6,988.6	33.5	33.5	1.2	12.01
7,022.8	25.2	2.0	7,016.1	45.4	45.4	1.6	12.01
7,052.8	28.8	2.0	7,042.8	59.0	59.0	2.1	12.01
7,082.7	32.4	2.0	7,068.6	74.3	74.2	2.6	12.01
7,112.7	36.0	2.0	7,093.4	91.1	91.0	3.2	12.01
7,142.7	39.6	2.0	7,117.1	109.5	109.4	3.8	12.01
7,172.6	43.2	2.0	7,139.5	129.3	129.2	4.5	12.01
7,202.6	46.8	2.0	7,160.7	150.5	150.4	5.3	12.01
7,232.6	50.4	2.0	7,180.5	172.9	172.8	6.0	12.01
7,262.6	54.0	2.0	7,198.9	196.6	196.5	6.9	12.01
7,292.5	57.6	2.0	7,215.7	221.4	221.3	7.7	12.01
7,322.5	61.2	2.0	7,231.0	247.2	247.1	8.6	12.01
7,352.5	64.8	2.0	7,244.6	273.9	273.7	9.6	12.01
7,382.4	68.4	2.0	7,256.5	301.4	301.2	10.5	12.01
7,412.4	72.0	2.0	7,266.7	329.6	329.4	11.5	12.01
7,442.4	75.6	2.0	7,275.0	358.4	358.2	12.5	12.01
7,472.4	79.2	2.0	7,281.6	387.6	387.4	13.5	12.01
7,502.3	82.8	2.0	7,286.2	417.2	417.0	14.6	12.01
7,532.3	86.4	2.0	7,289.1	447.0	446.8	15.6	12.01
7,562.3	90.0	2.0	7,290.0	477.0	476.7	16.6	12.01
19,010.0	90.0	2.0	7,290.0	11,924.7	11,917.5	416.2	0.00

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Strata Production Company
WELL NAME & NO.: Oscar 23 11 EDI Fed Com 11H
LOCATION: Sec 23-23S-30E-NMP
COUNTY: Eddy County, New Mexico

Changes approved through engineering via **Sundry 2773203** on 02/16/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

$H_2S$	⊙ No	O Yes		
Potash / WIPP	O None	Secretary	<b>⊙</b> R-111-P	□ WIPP
Cave / Karst	• Low	Medium	High	Critical
Wellhead	<ul><li>Conventional</li></ul>	O Multibowl	Both	<ul><li>Diverter</li></ul>
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	□ DV Tool
Special Req	☐ Break Testing	☐ Water Disposal	<b>▼</b> COM	□ Unit
Variance	☐ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☐ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
		Batch APD / Sundry		

# A. HYDROGEN SULFIDE

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

# **B. CASING**

- 1. The **13-3/8** inch surface casing shall be set at approximately 441 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *Set depth altered per BLM geologist.* 
  - 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

- <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-3/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
  - ❖ 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 salt string must come to surface.
- 3. The minimum required fill of cement behind the 7 inch production casing (with 5 inch taper) 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

# C. PRESSURE EQUIPMENT

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

# D. SPECIAL REQUIREMENT (S)

# **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.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- 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)
  - Eddy County
    Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV (575) 361-2822
  - ☑ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 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 **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. 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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-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 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 43 CFR part 3170 Subpart 3172 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 **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 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 43 CFR part 3170 Subpart 3172.

# C. DRILLING MUD

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

# D. WASTE MATERIAL AND FLUIDS

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

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

#### Oscar 23 11 EDI Fed Com 11H

13 3/8	surface o	0	17 1/2	inch hole.		<u>Design</u>				Surfa		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	48.00	Н	40	STC	15.21	3.78	0.82	441	9	1.38	7.20	21,168
"B"				STC				0				0
	mud, 30min Sfc			Tail Cmt	does not	circ to sfc.	Totals:	441				21,168
	of Proposed to					- ····						
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
17 1/2	0.6946	469	624	306	104	8.90	1253	2M				1.56
Burst Frac Grad	dient(s) for Seg	ment(s) A, B	=, b All $> 0$	0.70, OK.								
9 3/8	casing ins	ide the	13 3/8	_		<u>Design</u>	Factors -			Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A" <b>"B"</b>	39.00	Q	125	Wedge 513	5.53	1.89	2.52	3,850 <b>0</b>	4	4.30	3.16	150,150 <b>0</b>
w/8.4#/g	mud, 30min Sfc	Csg Test psig:					Totals:	3,850	_			150,150
	The cement vo	lume(s) are	intended to a	chieve a top of	0	ft from su	rface or a	441				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
			4000	1333	41	10.50	2169	3M				1.44
<b>12 1/4</b> Class 'H' tail cn	0.3391 nt yld > 1.20	1044	1882	1333	41	10.50	2109	SIVI				1.77
12 1/4 Class 'H' tail cm Tail cmt	nt yld > 1.20		1882 9 3/8	1333	41			JIVI		Prod	1	
Class 'H' tail cn Tail cmt				Coupling	Body	Design Fa		Length	B@s	Prod a-B	1 a-C	Weight
Class 'H' tail cn	casing ins	ide the	9 3/8			Design Fa	ctors		<b>B@s</b> 3			Weight
Tail cmt 7 Segment	casing ins	ide the Grade	9 3/8 110	Coupling	Body	Design Fa	ctors Burst	Length	_	a-B	a-C	Weight 203,000
Tail cmt 7 Segment "A" "B"	casing ins	ide the Grade HCP HCP	9 3/8 110 110	Coupling BTC	<b>Body</b> 4.58	Design Fa Collapse 2.48	ctors Burst 3.03	Length 7,000	3	<b>a-B</b> 5.17	<b>a-C</b> 4.24	Weight 203,000 216,162
Tail cmt 7 Segment "A" "B" w/8.4#/g	casing ins #/ft 29.00 18.00 mud, 30min Sfc	ide the  Grade  HCP  HCP  Csg Test psig:	9 3/8 110 110 1,540	Coupling BTC	<b>Body</b> 4.58	Design Fa Collapse 2.48	ctors Burst 3.03 3.67 Totals:	Length 7,000 12,009	3	<b>a-B</b> 5.17	<b>a-C</b> 4.24 6.21	Weight 203,000 216,162
Tail cmt 7 Segment "A" "B" w/8.4#/g	casing ins #/ft 29.00 18.00 mud, 30min Sfc	ide the  Grade  HCP  HCP  Csg Test psig:	9 3/8 110 110 1,540	Coupling BTC BTC	<b>Body</b> 4.58 ∞	Design Fa Collapse 2.48 3.63	ctors Burst 3.03 3.67 Totals:	Length 7,000 12,009 19,009	3	<b>a-B</b> 5.17	<b>a-C</b> 4.24 6.21	Weight 203,000 216,162 419,162 overlap.
Tail cmt 7 Segment "A" "B" w/8.4#/g	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo	ide the  Grade  HCP  HCP  Csg Test psig: llume(s) are	9 3/8 110 110 1,540 intended to ac	Coupling BTC BTC	Body 4.58 ∞	Design Fa Collapse 2.48 3.63 ft from su	Ctors Burst 3.03 3.67 Totals:	Length 7,000 12,009 19,009 3850	3	<b>a-B</b> 5.17	<b>a-C</b> 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist
Tail cmt 7 Segment "A" "B" w/8.4#/g	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo	ide the  Grade  HCP  HCP  Csg Test psig: blume(s) are  1 Stage	9 3/8 110 110 1,540 intended to ac 1 Stage	Coupling BTC BTC chieve a top of	Body 4.58 ∞ 0 1 Stage	Design Fa Collapse 2.48 3.63 ft from su Drilling	Burst 3.03 3.67 Totals: urface or a Calc	Length 7,000 12,009 19,009 3850 Req'd	3	<b>a-B</b> 5.17	<b>a-C</b> 4.24 6.21	Weight 203,000 216,162 419,162
Tail cmt 7 Segment "A" "B" w/8.4#/g	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo Annular Volume 0.1268	ide the  Grade  HCP  HCP  Csg Test psig: blume(s) are  1 Stage  Cmt Sx	9 3/8 110 110 1,540 intended to ac 1 Stage CuFt Cmt	Coupling BTC BTC chieve a top of Min Cu Ft	Body 4.58  0 1 Stage % Excess	Design Fa Collapse 2.48 3.63 ft from su Drilling Mud Wt	Burst 3.03 3.67 Totals: urface or a Calc	Length 7,000 12,009 19,009 3850 Req'd	3	<b>a-B</b> 5.17	<b>a-C</b> 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist Hole-Cplg
Tail cmt 7 Segment "A" "B" w/8.4#/g Hole Size 8 1/2 Class 'C' tail cm	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo Annular Volume 0.1268	ide the  Grade  HCP  HCP  Csg Test psig: blume(s) are  1 Stage  Cmt Sx	9 3/8 110 110 1,540 intended to ac 1 Stage CuFt Cmt	Coupling BTC BTC chieve a top of Min Cu Ft	Body 4.58  0 1 Stage % Excess	Design Fa Collapse 2.48 3.63 ft from su Drilling Mud Wt	Burst 3.03 3.67 Totals: urface or a Calc	Length 7,000 12,009 19,009 3850 Req'd	3	<b>a-B</b> 5.17	<b>a-C</b> 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist Hole-Cplg
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Tail cmt 7 Segment "A" "B" w/8.4#/g Hole Size 8 1/2 Class 'C' tail cm	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo Annular Volume 0.1268	ide the  Grade  HCP  HCP  Csg Test psig: blume(s) are  1 Stage  Cmt Sx  3109	9 3/8 110 110 1,540 intended to ac 1 Stage CuFt Cmt 4662	Coupling BTC BTC chieve a top of Min Cu Ft	Body 4.58  0 1 Stage % Excess	Design Fa Collapse 2.48 3.63 ft from su Drilling Mud Wt	Burst 3.03 3.67 Totals: urface or a Calc MASP	Length 7,000 12,009 19,009 3850 Req'd BOPE	3 4	<b>a-B</b> 5.17	<b>a-C</b> 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist Hole-Cplg 0.42
Tail cmt 7 Segment "A" "B" w/8.4#/g Hole Size 8 1/2 Class 'C' tail cn	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo Annular Volume 0.1268 mt yld > 1.35	ide the Grade HCP HCP Csg Test psig: blume(s) are 1 Stage Cmt Sx 3109	9 3/8 110 110 1,540 intended to ac 1 Stage CuFt Cmt 4662	Coupling BTC BTC chieve a top of Min Cu Ft 2437	Body 4.58  0 1 Stage % Excess 91	Design Fa Collapse 2.48 3.63 ft from su Drilling Mud Wt 10.20	Burst 3.03 3.67 Totals: urface or a Calc MASP	Length 7,000 12,009 19,009 3850 Req'd	3 4	a-B 5.17 6.28	a-C 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist Hole-Cplg 0.42
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Tail cmt 7 Segment "A" "B" w/8.4#/g Hole Size 8 1/2 Class 'C' tail cm #N/A 0 Segment "A" "B" w/8.4#/g	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo Annular Volume 0.1268 mt yld > 1.35 #/ft  #/ft  mud, 30min Sfc Cmt vol cal	ide the Grade HCP HCP Csg Test psig: blume(s) are 1 Stage Cmt Sx 3109  Grade  Csg Test psig: c below includes	9 3/8 110 110 1,540 intended to ac 1 Stage CuFt Cmt 4662	Coupling BTC BTC chieve a top of Min Cu Ft 2437  Coupling 0.00 0.00  TOC intended	Body 4.58	Design Fa Collapse 2.48 3.63  ft from su Drilling Mud Wt 10.20  Design I Collapse	Ectors Burst 3.03 3.67 Totals: urface or a Calc MASP  Factors Burst  Totals:	Length 7,000 12,009 19,009 3850 Req'd BOPE  Length 0 0 #N/A	3 4	a-B 5.17 6.28	a-C 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist Hole-Cplg 0.42 Weight 0 0 overlap.
Tail cmt 7 Segment "A" W/8.4#/g Hole Size 8 1/2 Class 'C' tail cn  #N/A 0 Segment "A" "B" w/8.4#/g Hole	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo Annular Volume 0.1268 mt yld > 1.35 #/ft  #/ft  mud, 30min Sfc Cmt vol cal Annular	ide the Grade HCP HCP Csg Test psig: olume(s) are 1 Stage Cmt Sx 3109  Grade  Csg Test psig: c below inclu 1 Stage	9 3/8 110 110 1,540 intended to ac 1 Stage CuFt Cmt 4662 7	Coupling BTC BTC Chieve a top of Min Cu Ft 2437  Coupling 0.00 0.00  TOC intended Min	Body 4.58  0 1 Stage % Excess 91  #N/A	Design Fa Collapse 2.48 3.63  ft from su Drilling Mud Wt 10.20  Design Collapse  ft from su Drilling	Ectors Burst 3.03 3.67 Totals: urface or a Calc MASP  Factors Burst  Totals: urface or a Calc	Length 7,000 12,009 19,009 3850 Req'd BOPE  Length 0 0 #N/A Req'd	3 4	a-B 5.17 6.28	a-C 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist Hole-Cplg 0.42 Weight 0 0 overlap. Min Dist Meight 20 overlap. Min Dist Meight 20 overlap. Min Dist Meight 20 overlap.
Tail cmt 7 Segment "A" W/8.4#/g Hole Size 8 1/2 Class 'C' tail cn  #N/A 0 Segment "A" "B" w/8.4#/g	casing ins #/ft 29.00 18.00 mud, 30min Sfc The cement vo Annular Volume 0.1268 mt yld > 1.35 #/ft  #/ft  mud, 30min Sfc Cmt vol cal	ide the Grade HCP HCP Csg Test psig: blume(s) are 1 Stage Cmt Sx 3109  Grade  Csg Test psig: c below includes	9 3/8 110 110 1,540 intended to ac 1 Stage CuFt Cmt 4662	Coupling BTC BTC chieve a top of Min Cu Ft 2437  Coupling 0.00 0.00  TOC intended	Body 4.58	Design Fa Collapse 2.48 3.63  ft from su Drilling Mud Wt 10.20  Design I Collapse	Ectors Burst 3.03 3.67 Totals: urface or a Calc MASP  Factors Burst  Totals:	Length 7,000 12,009 19,009 3850 Req'd BOPE  Length 0 0 #N/A	3 4	a-B 5.17 6.28	a-C 4.24 6.21	Weight 203,000 216,162 419,162 overlap. Min Dist Hole-Cplg 0.42 Weight 0 0 overlap.

Carlsbad Field Office 2/16/2024

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 315477

#### **CONDITIONS**

Operator:	OGRID:
STRATA PRODUCTION CO	21712
P.O. Box 1030	Action Number:
Roswell, NM 882021030	315477
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

	Created By	Condition	Condition Date
Ī	ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	7/11/2025