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

Sundry Print Report

04/06/2021

Well Name: ZIA HILLS 19 FEDERAL COM

Well Location: T26S / R32E / SEC 19 / LOT 2 / 32.028703 / -103.721656

County or Parish/State: LEA / NM

Well Number: 101H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC062749B

Unit or CA Name:

Unit or CA Number: NMNM138329X

US Well Number: 300254421500X1

Well Status: Approved Application for Permit to Drill

Operator: CONOCOPHILLIPS COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 03/31/2021

Time Sundry Submitted: 07:09

Date proposed operation will begin: 03/30/2021

Procedure Description: ConocoPhillips requests an amendment to our approved APD for this well to reflect a change in casing and cement as follows: 14.75" / 10.75" 0-1170' 45.5 J55 BTC 9.875" / 7.625" 0-8500' 29.7 HCL80 BTC 8.75" / 7.625" 8500' - 10954' 29.7 P110 IC Wedge 513 6.75" / 5.5" 0 - 10454' 23 P110 CY TXP 6.75" / 5.5" 10454' - 22100' 23 P110 CY Tenaris Wedge Annulus Clearance ConocoPhillips requests a variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions: -Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings. -Annular clearance less than 0.422 is acceptable for the curve and lateral portions of the production open hole section. Cement: Surface: Lead w/ 558 sx Class C, 13.5 ppg, 1.75 yield; Tail w/ 250 sx Class C, 14.8 ppg, 1.34 yield. Intermediate: Lead w/ 810 sx Halliburton Tuned Light, 10.3 ppg, 3.3 yield; Tail w/ 250 sx Class H, 14.8 ppg, 1.35 yield. Production: Lead w/ 499 sx 50:50:10 H Blend, 12.7 ppg, 2.0 yield; Tail w/ 1070 sx 50:50:2 Class H Blend, 14.4 ppg, 1.24 yield.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Zia_Hills_19_101H_Sundry_Casing_Update_3_30_31_20210331070806.pdf

Wedge_513___7.625_0.375_P110_03112021_20210331070805.pdf

TH_DS_21.0112_Rev00_20210331070805.pdf

TXP___BTC_5.500_0.415_P110_CY_03112021_20210331070805.pdf

Well Name: ZIA HILLS 19 FEDERAL COM

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County or Parish/State: LEA / NM

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Well Status: Approved Application for Permit to Drill

Operator: CONOCOPHILLIPS COMPANY

Conditions of Approval

Specialist Review

ZIA_HILLS_19_FEDERAL_COM_116H_Drilling_COA_OTA_20210406203431.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: WAGNER

Signed on: MAR 31, 2021 07:08 AM

Name: CONOCOPHILLIPS COMPANY

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLAND **State:** TX

Phone: (432) 253-9685

Email address: STAN.S.WAGNER@CONOCOPHILLIPS.COM

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: AJIBOLA OLABODE

BLM POC Title: Engineer

BLM POC Phone: 5752342231

BLM POC Email Address: OAJIBOLAEIT@BLM.GOV

Disposition: Approved

Disposition Date: 04/06/2021

Signature: Olabode Thomas Ajibola

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**CONOCOPHILLIPS COMPANY**
LEASE NO.:	**NMLC062749B**
WELL NAME & NO.:	ZIA HILLS 19 FEDERAL COM 116H
SURFACE HOLE FOOTAGE:	2638'/N & 1699'/W
BOTTOM HOLE FOOTAGE	50'/S & 2310'/W
LOCATION:	Section 19, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

OPERATOR'S NAME:	**CONOCOPHILLIPS COMPANY**
LEASE NO.:	**NMLC062749B**
WELL NAME & NO.:	ZIA HILLS 19 FEDERAL COM 115H
SURFACE HOLE FOOTAGE:	2638'/N & 1666'/W
BOTTOM HOLE FOOTAGE	50'/S & 1980'/W
LOCATION:	Section 19, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

OPERATOR'S NAME:	**CONOCOPHILLIPS COMPANY**
LEASE NO.:	**NMLC062749B**
WELL NAME & NO.:	ZIA HILLS 19 FEDERAL COM 114H
SURFACE HOLE FOOTAGE:	2638'/N & 1633'/W
BOTTOM HOLE FOOTAGE	50'/S & 1650'/W
LOCATION:	Section 19, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

OPERATOR'S NAME:	**CONOCOPHILLIPS COMPANY**
LEASE NO.:	**NMLC062749B**
WELL NAME & NO.:	ZIA HILLS 19 FEDERAL COM 104H
SURFACE HOLE FOOTAGE:	2487'/N & 529'/W
BOTTOM HOLE FOOTAGE	2618'/S & 990'/W
LOCATION:	Section 19, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

OPERATOR'S NAME:	**CONOCOPHILLIPS COMPANY**
LEASE NO.:	**NMLC062749B**
WELL NAME & NO.:	ZIA HILLS 19 FEDERAL COM 103H
SURFACE HOLE FOOTAGE:	2487'/N & 496'/W
BOTTOM HOLE FOOTAGE	2617'/S & 660'/W
LOCATION:	Section 19, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

OPERATOR'S NAME:	**CONOCOPHILLIPS COMPANY**
LEASE NO.:	**NMLC062749B**
WELL NAME & NO.:	ZIA HILLS 19 FEDERAL COM 102H
SURFACE HOLE FOOTAGE:	2487'/N & 463'/W
BOTTOM HOLE FOOTAGE	2617'/S & 330'/W
LOCATION:	Section 19, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

OPERATOR'S NAME:	**CONOCOPHILLIPS COMPANY**
LEASE NO.:	**NMLC062749B**
WELL NAME & NO.:	ZIA HILLS 19 FEDERAL COM 101H
SURFACE HOLE FOOTAGE:	2487'/N & 430'/W
BOTTOM HOLE FOOTAGE	50'/N & 0'/W
LOCATION:	Section 19, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

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

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1170 feet** (a minimum of **25 feet (Lea 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 **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

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

2. The minimum required fill of cement behind the **7-5/8** 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 Medium Cave/Karst Areas if cement does not circulate to surface on the first two 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:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. 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.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 2500 psi.**

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 2500 psi.**

    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. 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.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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.

OTA04062021

Zia Hills 19 101H Drill Sundry Changes:

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1170	10.75"	45.5	J55	BTC	3.90	1.14	13.43	14.95
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.20	2.88	2.90
8.750"	8500	10954	7.625"	29.7	P110 IC	Wedge 513	1.44	1.70	2.89	1.73
6.75"	0	10454	5.5"	23	P110 CY	TXP	1.75	1.78	2.68	2.66
6.75"	10454	22,100	5.5"	23	P110 CY	Tenaris Wedge	1.75	1.78	2.68	2.66
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Annulus Clearance

ConocoPhillips request variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

-Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.

-Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	558	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	499	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1070	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Ben Taylor | Drilling Engineer | ConocoPhillips
O: 432-686-3031 | **C:** 432-212-3309 | 600 W. Illinois Avenue, Midland, TX

TenarisHydril

5.500" 23.00 lb/ft P110-CY TenarisHydril Wedge 441™ with 5.900" Coupling

Customer: Conoco Phillips

Preliminary
Special Data Sheet
TH DS-21.0112
08 March 2021
Rev 00

Nominal OD	5.500 in.	**Wall Thickness**	0.415 in.	**Grade**	P110-CY
Min Wall Thickness	87.5%	**Type**	CASING	**Connection OD Option**	5.900"

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Nominal ID**	4.670 in.	**Body Yield Strength**	729 x 1000 lbs
Nominal Weight	23.00 lbs/ft	**Wall Thickness**	0.415 in.	**Internal Yield**	14530 psi
Standard Drift Diameter	4.545 in.	**Plain End Weight**	22.56 lbs/ft	**SMYS**	110000 psi
Special Drift Diameter	N/A	**OD Tolerance**	API	**Collapse Pressure**	14540 psi

Connection Data

Geometry		Performance		Make-up Torques	
Connection OD	5.900 in.	**Tension Efficiency**	88.3%	**Minimum**	15000 ft-lbs
Connection ID	4.670 in.	**Joint Yield Strength**	644 x 1000 lbs	**Optimum**	16000 ft-lbs
Make-up Loss	3.780 in.	**Internal Yield**	14530 psi	**Maximum**	19200 ft-lbs
Threads per in.	3.40	**Compression Efficiency**	88.3%	**Operational Limit Torques**	
Connection OD Option	5.900"	**Compression Strength**	644 x 1000 lbs	**Operating Torque**	33000 ft-lbs
Coupling Length	7.714 in.	**Bending**	81 °/100 ft	**Yield Torque**	39000 ft-lbs
		Collapse	14540 psi	**Buck-On Torques**	
				Minimum	19200 ft-lbs
				Maximum	20700 ft-lbs

Notes

*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

7. Important Note: In October 2019, TenarisHydril Wedge XP® 2.0 SL™ was renamed TenarisHydril Wedge 441™. Product dimensions and properties remain identical and both connections are fully interchangeable.

Tenaris

TXP® BTC -REGULAR API

Coupling	Pipe Body
Grade: **P110-CY**	Grade: **P110-CY**
Body: **White**	1st Band: **White**
1st Band: **Grey**	2nd Band: **Grey**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.415 in.	**Grade**	P110-CY
Min. Wall Thickness	87.50 %	**Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR API				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.415 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	23 lb/ft	**Plain End Weight**	22.56 lb/ft	**Min. Internal Yield Pressure**	14,530 psi
Drift	4.545 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	4.670 in.			**Collapse Pressure**	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.300 in.	**Tension Efficiency**	100 %	**Minimum**	12,980 ft-lb
Coupling Length	9.450 in.	**Joint Yield Strength**	72,900 x1000 lb	**Optimum**	14,420 ft-lb
Connection ID	4.658 in.	**Internal Pressure Capacity**	14,530 psi	**Maximum**	15,860 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	REGULAR API	**Max. Allowable Bending**	92 °/100 ft	**Operating Torque**	24,200 ft-lb
				Yield Torque	26,900 ft-lb

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 / 0.304 / 0.361 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
Standard coupling design comes with optimized 20° bevel.
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.

For the lastest performance data, always visit our website: www.tenaris.com

Tenaris

Wedge 513®

Coupling	Pipe Body
Grade: **P110**	Grade: **P110**
Body: **White**	1st Band: **White**
1st Band: **-**	2nd Band: **-**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	7.625 in.	**Wall Thickness**	0.375 in.	**Grade**	P110
Min. Wall Thickness	87.50 %	**Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	**Wall Thickness**	0.375 in.	**Body Yield Strength**	940 x1000 lb
Nominal Weight	29.70 lb/ft	**Plain End Weight**	29.06 lb/ft	**Min. Internal Yield Pressure**	9470 psi
Drift	6.750 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	6.875 in.			**Collapse Pressure**	5350 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	**Tension Efficiency**	60 %	**Minimum**	9000 ft-lb
Connection ID	6.800 in.	**Joint Yield Strength**	56,400 x1000 lb	**Optimum**	10,800 ft-lb
Make-up Loss	4.420 in.	**Internal Pressure Capacity**	9470 psi	**Maximum**	15,800 ft-lb
Threads per inch	3.29	**Compression Efficiency**	75.20 %		
Connection OD Option	Regular	**Compression Strength**	706.88 x1000 lb	**Operation Limit Torques**	
		Max. Allowable Bending	39 °/100 ft	**Operating Torque**	47,000 ft-lb
				Yield Torque	70,000 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 523® - 7.625 in. - 0.375 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For the lastest performance data, always visit our website: www.tenaris.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23272

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CONOCOPHILLIPS COMPANY P.O.Box 2197 Office SP2-12-W156 Houston, TX77252	217817	23272	C-103A

OCD Reviewer	Condition
pkautz	None