

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

Sundry Print Report

Well Name: ZIA HILLS 19 FEDERAL Well Location: T26S / R32E / SEC 19 / County or Parish/State: LEA /

COM SENW / 32.028281 / -103.717561

Well Number: 116H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMLC062749B Unit or CA Name: Unit or CA Number:

NMNM138329X

US Well Number: 300254424200X1 Well Status: Approved Application for Operator: CONOCOPHILLIPS

Permit to Drill COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 03/31/2021 Time Sundry Submitted: 08:50

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' - 11019' 29.7 P110 IC Wedge 513 6.75" / 5.5" 0 - 10519' 23 P110 CY TXP 6.75" / 5.5" 10519' - 22170' 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/ 502 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

 $Zia_Hills_19_116H_Sundry_Changes_3_31_21_20210331085017.pdf$

TXP___BTC_5.500_0.415_P110_CY_03112021_20210331085017.pdf

 $Wedge_513___7.625_0.375_P110_03112021_20210331085017.pdf$

TH_DS_21.0112_Rev00_20210331085017.pdf

eived by OCD: 4/7/2021 12:15:11 PM Well Name: ZIA HILLS 19 FEDERAL

COM

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SENW / 32.028281 / -103.717561

County or Parish/State: LEA/

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NMNM138329X

US Well Number: 300254424200X1 Well Status: Approved Application for

Operator: CONOCOPHILLIPS **COMPANY**

Permit to Drill

Conditions of Approval

Specialist Review

ZIA HILLS 19 FEDERAL COM 116H Drilling COA OTA 20210406204204.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 08:50 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

Signature: Olabode Thomas Ajibola

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

Page 2 of 2

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	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	O Low	• Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	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	☑ 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

Please see attached for the Zia Hills 19 116H casing and cement sundry.

Hole	Casing	g Interval	Csg.	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Size	From	То	Size	(lbs)	Orace	Oom.	Collapse	Or Burst	Body	Joint
14.75"	0	1170	10.75"	45.5	J55	BTC	3.90	1.08	13.43	14.95
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.50	1.19	2.88	2.90
8.750"	8500	11,019	7.625"	29.7	P110 IC	Wedge 513	1.37	1.69	2.87	1.72
6.75"	0	10519	5.5"	23	P110 CY	TXP	1.78	2.08	2.73	2.73
6.75"	10519	22,170	5.5"	23	P110 CY	Tenaris Wedge	1.78	2.08	2.73	2.73
_				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 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.	810	10.3	3.3	22	24	Halliburton tunded light
Stage 1	250	14.8	1.35	6.6	8	Tail: Class H
Prod	502	12.7	2	10.7	72	Lead: 50:50:10 H Blend
FIUU	1070	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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.

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%	Туре	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.



TXP® BTC -REGULAR



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	Туре	Casing
Connection OD Option	REGULAR API				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.415 in.
Nominal Weight	23 lb/ft	Plain End Weight	22.56 lb/ft
Drift	4.545 in.	OD Tolerance	API
Nominal ID	4.670 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,530 psi
SMYS	110,000 psi
Collapse Pressure	14,540 psi

Connection Data

Geometry	
Connection OD	6.300 in.
Coupling Length	9.450 in.
Connection ID	4.658 in.
Make-up Loss	4.204 in.
Threads per inch	5
Connection OD Option	REGULAR API

Performance	
Tension Efficiency	100 %
Joint Yield Strength	72,900 x1000 lb
Internal Pressure Capacity	14,530 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	92 °/100 ft

Make-Up Torques	
Minimum	12,980 ft-lb
Optimum	14,420 ft-lb
Maximum	15,860 ft-lb
Operation Limit Torques	
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

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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	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	940 x1000 lb
Min. Internal Yield Pressure	9470 psi
SMYS	110,000 psi
Collapse Pressure	5350 psi

Connection Data

Geometry	
Connection OD	7.625 in.
Connection ID	6.800 in.
Make-up Loss	4.420 in.
Threads per inch	3.29
Connection OD Option	Regular
·	

Performance	
Tension Efficiency	60 %
Joint Yield Strength	56,400 x1000 lb
Internal Pressure Capacity	9470 psi
Compression Efficiency	75.20 %
Compression Strength	706.88 x1000 lb
Max. Allowable Bending	39 °/100 ft

Make-Up Torques	
Minimum	9000 ft-lb
Optimum	10,800 ft-lb
Maximum	15,800 ft-lb
Operation Limit Torques	
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

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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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 23276

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CONOCOPHILLIPS COMPANY P.O.Box 2197	217817	23276	C-103A
Office SP2-12-W156 Houston, TX77252			

OCD Reviewer	Condition
pkautz	None