

Well Name: ZIA HILLS 19 FEDERAL COM	Well Location: T26S / R32E / SEC 19 / LOT 2 / 32.028703 / -103.721444	County or Parish/State: LEA / NM
Well Number: 103H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC062749B	Unit or CA Name:	Unit or CA Number: NMNM138329X
US Well Number: 300254421700X1	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: 07:22
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' - 11220' 29.7 P110 IC Wedge 513 6.75" / 5.5" 0 - 10720' 23 P110 CY TXP 6.75" / 5.5" 10720' - 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/ 820 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/ 511 sx 50:50:10 H Blend, 12.7 ppg, 2.0 yield; Tail w/ 1045 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_103H_Drilling_Sundry_Changes_3_30_21_20210331072248.pdf
- TH_DS_21.0112_Rev00_20210331072247.pdf
- TXP___BTC_5.500_0.415_P110_CY_03112021_20210331072247.pdf
- Wedge_513___7.625_0.375_P110_03112021_20210331072247.pdf

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Conditions of Approval

Specialist Review

ZIA_HILLS_19_FEDERAL_COM_116H_115H_114H_104H_103H_102H_101H_Drilling_COA_OTA_20210406210040.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 07:22 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	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> 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 103H Drilling 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	1.17	2.88	2.90
8.750"	8500	11,220	7.625"	29.7	P110 IC	Wedge 513	1.40	1.66	2.82	1.69
6.75"	0	10,720	5.5"	23	P110 CY	TXP	1.75	2.04	2.68	2.68
6.75"	10720	22,100	5.5"	23	P110 CY	Tenaris Wedge	1.75	2.04	2.68	2.68
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 ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	558	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	820	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	511	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1045	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



**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.



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 %	Operation Limit Torques	
Threads per inch	5	Compression Strength	729 x1000 lb	Operating Torque	24,200 ft-lb
Connection OD Option	REGULAR API	Max. Allowable Bending	92 °/100 ft	Yield Torque	26,900 ft-lb

Notes

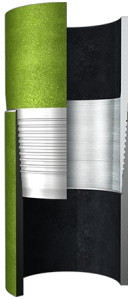
This connection is fully interchangeable with:
 TXP® BTC - 5.5 in. - 0.275 / 0.304 / 0.361 / 0.476 in.
 Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
 Standard coupling design comes with optimized 20° bevel.
 Datasheet is also valid for Special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

For the latest 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	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
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.		
		Body Yield Strength	940 x1000 lb
		Min. Internal Yield Pressure	9470 psi
		SMYS	110,000 psi
		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 latest performance data, always visit our website: www.tenaris.com

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District III
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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 23280

CONDITIONS OF APPROVAL

Operator: CONOCOPHILLIPS COMPANY P.O.Box 2197 Office SP2-12-W156 Houston, TX77252		OGRID: 217817	Action Number: 23280	Action Type: C-103A
OCD Reviewer pkautz		Condition None		