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

Sundry Print Report

01/04/2022

Well Name: ZIA HILLS 19 FEDERAL COM

Well Location: T26S / R32E / SEC 19 / SENW / 32.028281 / -103.717881

County or Parish/State: LEA / NM

Well Number: 113H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC062749B

Unit or CA Name:

Unit or CA Number: NMNM138329X

US Well Number: 300254424000X1

Well Status: Approved Application for Permit to Drill

Operator: CONOCOPHILLIPS COMPANY

Notice of Intent

Sundry ID: 2649403

Type of Submission: Notice of Intent

Type of Action: Casing

Date Sundry Submitted: 12/17/2021

Time Sundry Submitted: 08:18

Date proposed operation will begin: 01/03/2022

Procedure Description: ConocoPhillips requests an amendment to our approved APD for this well to reflect the addition of a 4-inch casing liner to the drill plan. While running 5.5 inch production casing in this well, issues were encountered casing the production casing to be set short of the planned depth. Attached is a current WBD, a proposed WBD, and a summary procedure for remedy. Technical questions should be addressed to Michael Leonard at 432-888-4844

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Zia_Hills_19_Federal_COM_113H_Procedure_1_3_2022__20220104104657.docx

Zia_Hills_19_Federal_COM_113H_Procedure_1_3_2022__20220103150132.pdf

ULTRA____SFII_4.000_0.286_P110_01032022_20220103150132.pdf

ZIA_HILLS_19_FEDERAL_COM_113H_C_102_08_01_2017_20220103150057.pdf

ZIA_HILLS_19_FEDERAL_COM_113H_Directional_Plan_08_01_2017_20220103150057.pdf

Zia_Hills_19_Federal_COM_113H_Current_WBD_20211217081726.pdf

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Well Status: Approved Application for Permit to Drill

Operator: CONOCOPHILLIPS COMPANY

Zia_Hills_19_Federal_COM_113H_Proposed_WBD_20211217081727.pdf

Conditions of Approval

Specialist Review

ZIA_HILLS_19_FEDERAL_COM_113H_Drilling_COA_OTA_20220104152448.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: STAN WAGNER

Signed on: JAN 04, 2022 10:47 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: 01/04/2022

Signature: Olabode Thomas Ajibola

ConocoPhillips

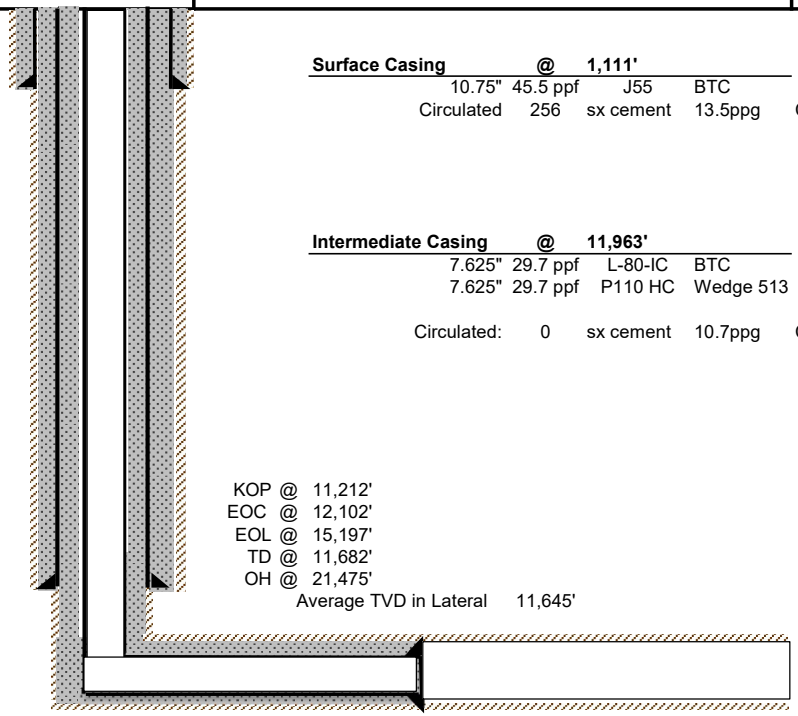
CURRENT WELL SKETCH

API: 30-025-44240
SPUD: 6/18/2021
FRR: 11/10/2021
RIG: Scan Quest

Zia Hills 19 Federal COM 113H

WolfCamp A
Lea County

Sec 21 T/B Blk-C24 R/Svy PSL, A-1200
SHL: 2,638' FNL & 1,600' FWL
BHL: 50' FSL & 1,320'FWL
Sec 19, T:26S, R:32E Congressional Location
GL: 3,182'
KB: 3,212'
ZERO 30'



Surface Casing @ 1,111'

10.75" 45.5 ppf J55 BTC
Circulated 256 sx cement 13.5ppg C

Intermediate Casing @ 11,963'

7.625" 29.7 ppf L-80-IC BTC Surface to 8,157'
7.625" 29.7 ppf P110 HC Wedge 513 8,157' -- 11,124'

Circulated: 0 sx cement 10.7ppg C-NEOCHEM

KOP @ 11,212'
EOC @ 12,102'
EOL @ 15,197'
TD @ 11,682'
OH @ 21,475'
Average TVD in Lateral 11,645'

Notes: csg @ 15,192, OH @ 21,475'

Production Casing @

5.5" 23 ppf P110 CY CDCHTQ Surface to 15,192'
PBTD (LC) 15,192'
MJ: 4.224'
Floatation Collar: 4,282'

Circulated: 632 sx cement 13.2ppg H

HOLE SIZE	MW	BHST	Evaluation
20"	8.9 (ppg)		No Logs
14.75	8.9 (ppg)		No Logs
9.875	9.5 (ppg)		No Logs
6.75	12.8 (ppg)		USIT

Well Name: Zia Hills 19 Federal COM 113H
Job Type: 4" Liner Install

Well Information:

AFE:	**Network Number:**	**API: 3002544240**
State: New Mexico	**County: Lea**	**Field: Wolfcamp**
Latitude: 32° 1' 41.362"N	**Longitude: 103° 43' 2.669"W**	**Formation: Wolfcamp A**

Directions:

- From the intersection of US Hwy 285 and State Hwy 652 in Orla, TX
- Go East on State Hwy 652 for 16.6 miles to TX/NM state line
- Continue onto NM County Road 1 for 2 miles to lease road
- Location is on the North side of the lease road (directly West of Battle Axe Road)
- Turn Left (West) onto lease road, travel 1.1 miles to lease road
- Turn Right (North), onto lease road, go 0.1 mile to location lease road
- Turn Right (East), onto location lease road, go 600 feet to location

Summary:

During drilling operations while running the 5.5" production casing it became stuck at 15,192ftKB. At this depth, the production casing was successfully cemented with full cement returns to surface. The scope of this operation is to cleanout the wellbore to PBTD. Run and install a 4.0" liner into the current 5.5" casing and open hole and perforate the toe.

Current Casing Details:

String	OD (in)	ID (in)	Weight (ppf)	Grade	Thread	Burst (psi)	Collapse (psi)	Capacity (bbl/ft)	Top (ftKB)	Bottom (ftKB)
Surface	10.75	10.05	40.5	J-55	BTC	3,130	1,580	0.0981	30	1,240
Intermediate	7.625	6.875	29.7	L-80	BTC	6,890	5,900	0.0459	30	11,124
Production	5.5	4.67	23	P-110	BTC	14,530	14,540	0.0212	30	15,192

Proposed WorkString and Liner Details:

String	OD (in)	ID (in)	Weight (ppf)	Grade	Thread	Burst (psi)	Collapse (psi)	Capacity (bbl/ft)	Tensile Strength (lbs)
Workstring	2.875	2.265	7.9	P-110	TTWS	18,480	19,090	0.00523	247,000
Liner	4.00	3.428	11.6	P-110	TMK SFII	13,760	13,150	0.0114	367,000

Cleanout to PBTD Ops:

1. Move in rig up work over unit and equipment
2. Pick up BHA and run in with workstring to PBTD

   a. Pick up 4-1/2" 5-blde junk mill to clean through shoe track
3. Tag cement in 5.5" casing
4. Pressure test 5.5" casing and cement
5. Drill out cement and shoe track using OBM
   a. OBM system will be targeted to be 13.0ppg 80/20 that was used during drilling operations
      i. NOVA will be used as mud provider with onsite engineers to ensure consistency between ScanQuest drilling's mud and mud that will be used
6. Continue to circulate clean while running to PBTD
   a. 4-1/2" 5-bladed junk mill will be used to circulate clean the original 6-3/4" hole that was original drilled by ScanQuest rig
   b. Care will be taken to not change the size of the hole
7. Pull out of the hole with work string
   a. Stand back proper footage of Tubing to run liner and lay down rest of workstring and BHA

Run Liner and Cement:

1. Make and pick up BHA
2. Run in the hole with the BHA, liner, and workstring
3. Once liner is on bottom and hanger is at or slightly above KOP
4. Pick up cementing head and make up to work string
5. Cement liner into place with following cement program
   a. Fluid 1 - 13lbm/gal 40bbls
      i. Spacer Sweep
      ii. Tuned Defense Cement Spacer
      iii. 31.742 gal/bbl fresh water
      iv. 234.75lbm/bbl Barite
      v. 0.5 gal/bbl D-AIR 3000L
      vi. 1 lbm/bbl FE-2
      vii. 4 lbm/bbl SEM-93P
      viii. 4 lbm/bbls SEM-94P
   b. Fluid 2 – Tail Slurry
      i. NeoCem TM, 2 gal/sk latex-3000
      ii. Fluid weight 13.2lbm/gal
      iii. Slurry yield 1.43ft3/sack
      iv. Total mixing fluid 7.64 gal/sack
      v. Calculated volume 239.9bbl
      vi. Proposed volume 239.9bbl
      vii. Top of fluid 11,182ft
      viii. Calculated fill 10,293ft
      ix. Calculated sack 941.96
      x. Proposed sacks 945
   c. Fluid 3 – Brine water
      i. Fluid density 10.0lbm/gasl
      ii. Volume 195bbls
6. Release wiper dart and spot into landing collar

7. Release liner hanger from workstring
8. Circulate with fresh water until clean fluid is observed in returns
9. Pull out of the hole with the workstring and hanger setting tool

Liner Cleanout and Toe Prep:

1. Pick up bit and workstring
2. Run in the hole while circulating
3. Tag PBTD, Circulate Clean
4. Pull out of the hole standing back workstring
5. Toe Prep Option 1:
    a. Pick up TCP guns and run-in hole to firing depth
    b. Perforate liner
    c. Pull out of the hole with workstring
    d. Shut in and secure well
    e. Rig down well servicing unit and release all equipment
6. Toe Prep Option 2:
    a. Rig down and move out Victory 107 and equipment
    b. Move in rig up Pioneer wireline and Altus tractor
    c. Pick up tractor, 10-1ft 6 shots/ft thunder guns, and tractor
    d. Run in hole with tractor and guns, perforate liner
    e. Rig down move all equipment from location

Tenaris

ULTRA™ SFII

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	4.000 in.	Wall Thickness	0.286 in.	Grade	P110
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Tubing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	4.000 in.	Wall Thickness	0.286 in.	Body Yield Strength	367.10 x1000 lb
Nominal Weight	11.60 lb/ft	Plain End Weight	11.35 lb/ft	Min. Internal Yield Pressure	13,760 psi
Drift	3.303 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	3.428 in.			Collapse Pressure	13,150 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	4.152 in.	Tension Efficiency	82.63 %	Minimum	4600 ft-lb
Connection ID	3.384 in.	Joint Yield Strength	303 x1000 lb	Optimum	4800 ft-lb
Make-up Loss	4.402 in.	Internal Pressure Capacity	13,760 psi	Maximum	5500 ft-lb
Threads per inch	8	Compression Efficiency	81.40 %		
Connection OD Option	Regular	Compression Strength	299 x1000 lb	Operation Limit Torques	
		Max. Allowable Bending	126 °/100 ft	Operating Torque	6200 ft-lb
		External Pressure Capacity	13,150 psi	Yield Torque	7300 ft-lb

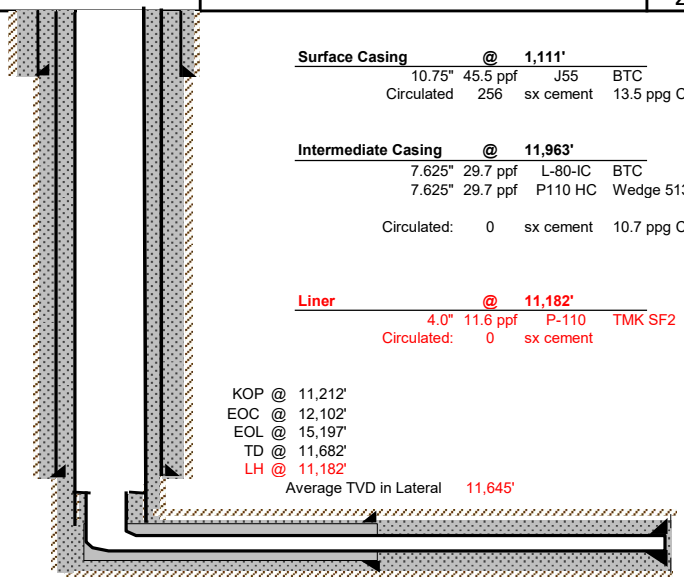
ConocoPhillips

Proposed WELL SKETCH

API: 30-025-44240
SPUD: 6/18/2021
FRR: 1/7/2021
RIG: Victory Well Services 107

Zia Hills 19 Federal COM 113H
WolfCamp A
Lea County

Sec 21 T/B Blk-C24 R/Svy PSL, A-1200
SHL: 2,638' FNL & 1,600' FWL
BHL: 50' FSL & 1,320'FWL
Sec Γ:26S, R:32E Congressional Location
GL: 3,182'
KB: 3,212'
ZERO: 30'



Surface Casing @ 1,111'
10.75" 45.5 ppf J55 BTC Surfce to 1240'
Circulated 256 sx cement 13.5 ppg C

Intermediate Casing @ 11,963'
7.625" 29.7 ppf L-80-IC BTC Surface to 8,157'
7.625" 29.7 ppf P110 HC Wedge 513 8,157' -- 11,124'

Circulated: 0 sx cement 10.7 ppg C-NEOCHEM

Liner @ 11,182'
4.0" 11.6 ppf P-110 TMK SF2 11,182' to 21,475'
Circulated: 0 sx cement

KOP @ 11,212'
EOC @ 12,102'
EOL @ 15,197'
TD @ 11,682'
LH @ 11,182'
Average TVD in Lateral 11,645'

Notes:

Production Casing @
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PBTD (LC) 23,199'
MJ: 4,224'
Floatation Collar: 4,284'

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HOLE SIZE	MW	BHST	Evaluation
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14.75	8.9 (ppg)		No Logs
9.875	9.5 (ppg)		No Logs
6.75	12.8 (ppg)		USIT

Date	History
11/10/2021	During drilling operations while running the 5.5" production casing
	became stuck at 15,192ftKB. production casing was successfully
	cemented with full cement returns to surface
	Poposed:
	Run Liner from KOP through production casing to PBTD
	Cement Liner in place

Tenaris

ULTRA™ SFII

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	4.000 in.	**Wall Thickness**	0.286 in.	**Grade**	P110
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Tubing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	4.000 in.	**Wall Thickness**	0.286 in.	**Body Yield Strength**	367.10 x1000 lb
Nominal Weight	11.60 lb/ft	**Plain End Weight**	11.35 lb/ft	**Min. Internal Yield Pressure**	13,760 psi
Drift	3.303 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	3.428 in.			**Collapse Pressure**	13,150 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	4.152 in.	**Tension Efficiency**	82.63 %	**Minimum**	4600 ft-lb
Connection ID	3.384 in.	**Joint Yield Strength**	303 x1000 lb	**Optimum**	4800 ft-lb
Make-up Loss	4.402 in.	**Internal Pressure Capacity**	13,760 psi	**Maximum**	5500 ft-lb
Threads per inch	8	**Compression Efficiency**	81.40 %		
Connection OD Option	Regular	**Compression Strength**	299 x1000 lb	**Operation Limit Torques**	
		Max. Allowable Bending	126 °/100 ft	**Operating Torque**	6200 ft-lb
		External Pressure Capacity	13,150 psi	**Yield Torque**	7300 ft-lb

Notes

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 71309

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 71309
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	1/12/2022