

Well Name: CURLY FEDERAL	Well Location: T17S / R32E / SEC 34 / NESE /	County or Parish/State: LEA / NM
Well Number: 2	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0555568	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002538442	Well Status: Water Disposal Well	Operator: SPUR ENERGY PARTNERS LLC

Notice of Intent

Sundry ID: 2726679

Type of Submission: Notice of Intent

Type of Action: Workover Operations

Date Sundry Submitted: 04/19/2023

Time Sundry Submitted: 02:21

Date proposed operation will begin: 05/19/2023

Procedure Description: This well has a suspected hole in tubing or packer leak due to pressure on the 5.5" casing when the h- pump is running. A pump truck pumped down the casing with the tubing valve shut and it never pressured up or caused any pressure to build on the tubing. It is proposed to pull and LD all tubing and replace all tubing with new Polycore tubing from Western Falcon. The tubing in this well is 9.5 years old. While replacing this tubing, we are planning to upsize it from 2-7/8" to 3-1/2" tubing with TDC.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Curly_Fed_SWD__2___BLM_Submittal_HIT_and_Upsize_Tubing_Procedure_20230419142058.pdf

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Operator: SPUR ENERGY PARTNERS LLC

Conditions of Approval

Specialist Review

Workover_or_Vertical_Deepen_COA_20230420181726.pdf

Operator

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

Operator Electronic Signature: SARAH CHAPMAN

Signed on: APR 19, 2023 02:21 PM

Name: SPUR ENERGY PARTNERS LLC

Title: Regulatory Directory

Street Address: 9655 KATY FREEWAY, SUITE 500

City: Houston

State: TX

Phone: (832) 930-8613

Email address: SCHAPMAN@SPUREPLLC.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: JONATHON W SHEPARD

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345972

BLM POC Email Address: jshepard@blm.gov

Disposition: Approved

Disposition Date: 04/20/2023

Signature: Jonathon Shepard

Curly Federal SWD #002

Lea County, NM
 API# 30-025-38442
 AFE TBD - \$TBD

Hole in Tubing and Upsize Tubing

Objective

This well has a suspected hole in tubing or packer leak due to pressure on the 5.5” casing when the h-pump is running. A pump truck pumped down the casing with the tubing valve shut and it never pressured up or caused any pressure to build on the tubing. It is proposed to pull and LD all tubing and replace all tubing with new Polycore tubing from Western Falcon. The tubing in this well is 9.5 years old. While replacing this tubing, we are planning to upsize it from 2-7/8” to 3-1/2” tubing with TDC.

Notes:

ONLY RUN 316 OR HIGHER-GRADE STAINLESS STEEL, PLASTIC COATED, OR NICKEL COATED ACCESSORIES DOWNHOLE – COLLARS, XO’s, ON/OFF TOOLS ETC. SS IS PREFERRED.

Procedure

1. **Notification:** Contact the OCD and BLM at least 24 hours prior to the commencing of any operations.
2. Move in rig up pulling unit and laydown machine.
3. Ensure well is at 0 psi, 10# brine may be needed to kill the well. Nipple down wellhead. Nipple up BOP.
4. Release packer
5. Pull and LD 2-7/8” IPC Tubing as follows:

Tubing Detail (9/27/2013)

Current Tubing String									
Tubing Description					Set Depth (ftKB)		Run Date		
Production Tubing					8,475.0		9/27/2013		
Item Des	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Jts	Cum Len (ft)	Top (ftKB)	Btm (ftKB)
TUBING		0.00	0.0	0.00	8,454.74	1	8,467.64	7.4	8,462.1
ON/OFF TOOL		0.00	0.0	0.00	1.10		12.90	8,462.1	8,463.2
PRODUCTION PACKER		0.00	0.0	0.00	7.40		11.80	8,463.2	8,470.6
TBG SUB		0.00	0.0	0.00	4.00		4.40	8,470.6	8,474.6
PUMP OUT PLUG		0.00	0.0	0.00	0.40		0.40	8,474.6	8,475.0

6. MI new 3-1/2” TDC tubing from Western Falcon
7. MI Bit and Scraper
8. Make bit and scraper run down to 25’ above top perf
9. POOH with tubing while racking back

10. Run in hole with injection BHA and tubing while hydrotesting to 5,000 psi below the slips as follows:

Proposed Tubing Detail

~7,000' 3-1/2" std WF Polycore L-80 or J-55 9.3# EUE tbg w/ TDC

~1,475' 3-1/2" WF Intertube L-80 or J-55 9.3# EUE tbg w/ TDC

3-1/2" x 2-7/8" SS XO

2-7/8" NP T2 O/O tool with profile nipple

5.5" x 2-7/8" NP AS1X Packer @ 8,475'

NP Tubing sub

Profile nipple, POP, and WLREG

11. Put packer at +/- 8,475' (same depth as before).
12. Bull head 200 bbls of packer fluid and set packer – discuss with engineer how much compression should be set on packer
13. Once set, top off the annulus with packer fluid.
14. Load and test casing to 500 psi for 30 mins.
15. If good test, Nipple down BOP. Nipple up wellhead.
16. Rig down pulling unit.
17. Notify NMOCD 48hrs in advance to witness MIT, perform MIT in accordance with NMAC 19.15.26.11.

Lea County, NM
API# 30-025-38442

PROPOSED WBD

13-3/8" 48# H-40 STC CSG @ 395'
CMT W/ 475 SX P+
CIRC 63 SX TO PIT

TOC @ 1,500' (TS)

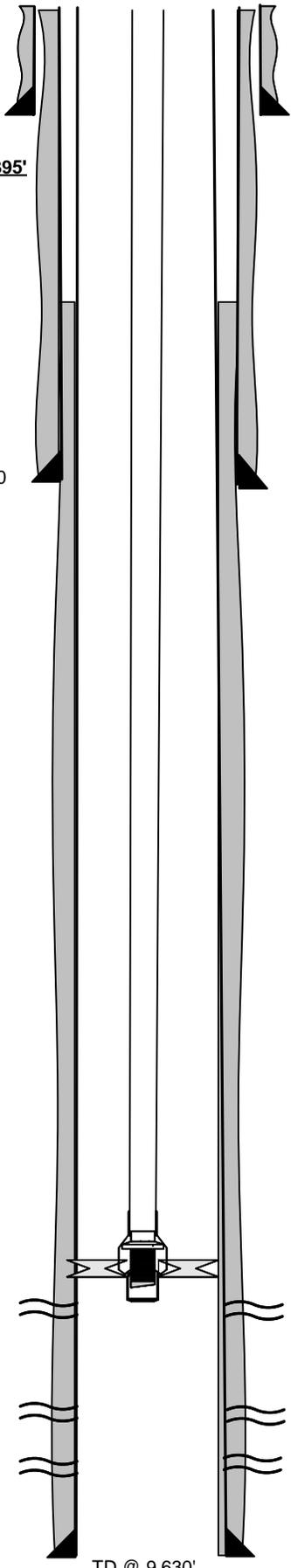
9-5/8" 36# J-55 Csg @ 2608'
CMT W/ 750 SX HLPP, TAILED IN 250
SX P+
CIRC 107 SX TO PIT

PROPOSED TUBING DETAIL

262 JTS 3-1/2" 9.3# EUE 8RD L-80 POLYCORE TUBING
W/ TDC
3-1/2" x 2-7/8" CROSSOVER
5 1/2" x 2-7/8" T2 ON/OFF TOOL
5 1/2" x 2-7/8" AS-1X NICKEL-PLATED PACKER @ 8,475'
4' TBG SUB
LANDING NIPPLE AND POP

CIBP @ 9060'
(Drilled Out)

5 1/2" 17# J-55, N-80 Csg @ 9,597'
1ST STAGE: CMT W/ 150 SX HLP,
TAILED IN 200 SX PB SUPER H
CIRC 43 SX TO PIT
2ND STAGE: CMT W/ 750 SX HLP,
TAILED IN W/ 100 SX PB SUPER H
TOC @ 1500' (TS)



BONE SPRING PERFS (8572 - 9509')

10/3/2007: PERF ZONE 3 8572-8742' ACIDIZE W/ 1000 GAL
NEFE 20% HCL ACID
10/2/2007: PERF ZONE 2 9080-9136'
10/1/2007: PERF ZONE 1 9130-9203' ACIDIZED W/ 5000
GAL NEFE 20% HCL ACID, SQZ W/ 370 SX CMT, CLOSED
6/23/2008: PERF 9144' - 9509' ACIDIZED W/ 5000 GAL
NEFE 20% HCL ACID
6/26/08: ACIDIZE 8572'-9203' W/ 5000 GALS 20% HCL

TD @ 9,630'
PBTD @ 9,516' (6/23/08)
FILL @ 9,480' (2/4/11)

2 7/8" IPC tubing

Q	2,600 [BPD]
Inner Diameter	2.411 [in]
Length	8,470 [ft]

SG	1.15
Ff	0.00425 fanning friction factor
μ	1.1 cp
Nre	104,165 Reynold's Number

ΔP	157.7 [PSI]
Hydraulic HP	6.98 [HP]
Power	5.20 [kW]
System Efficiency	60%
Energy	208 [kWh]
Energy Cost	\$ 0.120 [\$/kWh]

Friction Expense	
Daily Cost	\$ 24.98
Monthly	\$ 759.79
\$/bbl	\$ 0.01

Total Electric cost	
Daily Cost	\$ 237.55
Monthly	\$ 7,221.38
\$/bbl	\$ 0.09

3 1/2" IPC tubing

Q	3,300 [BPD]
Inner Diameter	2.670 [in]
Length	8,470 [ft]

SG	1.15
Ff	0.00420 fanning friction factor
μ	1.1 cp
Nre	119,385 Reynold's Number

ΔP	150.8 [PSI]
Hydraulic HP	8.47 [HP]
Power	6.31 [kW]
System Efficiency	60%
Energy	253 [kWh]
Energy Cost	\$ 0.120 [\$/kWh]

Friction Expense	
Daily Cost	\$ 30.30
Monthly	\$ 921.73
\$/bbl	\$ 0.01

Total Electric cost	
Daily Cost	\$ 237.55
Monthly	\$ 7,221.38
\$/bbl	\$ 0.07

3,000,000	0.0025
2,750,000	0.00255
2,500,000	0.0026
2,250,000	0.00265
2,000,000	0.0027
1,750,000	0.00275
1,500,000	0.0028
1,250,000	0.00285
1,000,000	0.0029
900,000	0.00295
800,000	0.003
700,000	0.0031
600,000	0.003175
500,000	0.00325
450,000	0.003375
400,000	0.0035
350,000	0.0036
300,000	0.0037
250,000	0.0038
200,000	0.0039
150,000	0.00425
100,000	0.0045

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Conditions of Approval for Workover/Deepening of a Well

1. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-689-5981
2. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
3. Cement: Notify BLM if cement fails to circulate.
4. Subsequent Reporting: Within 30 days after work is completed, file a Subsequent Report (Form 3160-5) to BLM. The report should give in detail the manner in which the work was carried out. Show date work was completed. If producing a new zone, submit a Completion Report (Form 3160-4) with the Subsequent Report.
5. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.
6. If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken: From March 1st through June 15th annually, activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.

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 209577

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 209577
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	packer should be set within 100 ft. of top perforation or top of open hole.	6/8/2023