

Well Name: SAN JUAN 29-6 UNIT	Well Location: T29N / R6W / SEC 1 / NESW / 36.75401 / -107.41699	County or Parish/State: RIO ARRIBA / NM
Well Number: 8M	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM012698	Unit or CA Name: SAN JUAN 29-6 UNIT--MV	Unit or CA Number: NMNM78416A
US Well Number: 3003929751	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2775048

Type of Submission: Subsequent Report

Type of Action: Workover Operations

Date Sundry Submitted: 02/14/2024

Time Sundry Submitted: 08:12

Date Operation Actually Began: 02/05/2024

Actual Procedure: Hilcorp Energy has repaired the source of the intermediate pressure on the subject well per the attached procedure.

SR Attachments

Actual Procedure

SJ_29_6_UNIT_8M_SR_20240214081118.pdf

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UNIT--MV

Unit or CA Number:
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Well Status: Producing Gas Well

Operator: HILCORP ENERGY
COMPANY

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: PRISCILLA SHORTY

Signed on: FEB 14, 2024 08:11 AM

Name: HILCORP ENERGY COMPANY

Title: Regulatory Technician

Street Address: 382 ROAD 3100

City: AZTEC

State: NM

Phone: (505) 324-5188

Email address: PSHORTY@HILCORP.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 02/14/2024

Signature: Matthew Kade

SAN JUAN 29-6 UNIT 8M

30.039.29751

INTERMEDIATE CASING REPAIR

2/5/2024 – MIRU. SITP -80 PSI, SICP-80 PSI, SIIC-500 PSI, SIBH-160 PSI. BDW 120 MIN. ND WH NU BOPE. RU FLOOR. FUNCTION TEST BOPE (GOOD). PULL AND LD TBG HANGER, TAG 10' FILL AT 7871'. TOOH INSPECTING 2-3/8" J-55 TBG. NO VERIFIED HOLES, INTERNAL PITTING. SDFN.

2/6/2024 – CK PRESSURES. SITP-0 PSI, SICP-75 PSI, SIIC-280 PSI, SIBH-140 PSI. BD WELL 30 MIN. PU 3-7/8" STRING MILL AND TIH TO 4992'. TOOH, LD STRING MILL. PU 4-1/2" RBP AND TIH, SET RBP @ 4960'. LOAD 4-1/2" CSG, CIRC CLEAN. PT CSG TO 560 PSI FOR 30 MIN W/ RIG PUMP. PRESSURE CLIMBED DUE TO EXPANSION, RETEST IN THE MORNING. PT 4-1/2" WH SEALS, GOOD TEST. PRESSURE TEST 7" CASING SEALS, FAILED TEST, PUMP PACKING INTO SEALS, FAILED TEST. SDFN.

2/7/2024 - CK PRESSURES. SITP-0 PSI, SICP-0 PSI, SIIC-25 PSI, SIBH-15 PSI. NO BD. RU WELLCHECK AND PERFORM UNWITNESSED MIT. PRESSURE TEST 4-1/2" PROD CSG TO 560 PSI FOR 30 MIN CHARTED TEST. NO LEAK OFF. ATTEMPT TO LOAD AND TEST WH SEALS. DUMP SAND ON RBP. TOOH. **HEC ENGINEER EMAILED MONICA KUEHLING, NMOC, PROVIDING DETAILS THAT THE DIRECT COMMUNICATION BETWEEN BH AND INT APPEARS TO BE AT THE WH. PATH FORWARD IS TO RD, EXCAVATE AROUND THE WH, REMOVE THE PC SECTION, AND REPLACE THE MANDREL-STYLE IC SECTION WITH A FLANGE-STYLE IC SECTION. RETEST.** RD FLOOR, ND BOPE, NU WH. LOAD 4-1/2" W/ WATER.

2/8/2024 – CK PRESSURES. SITP-0 PSI, SICP-0 PSI, SIIC-35 PSI, SIBH-10 PSI. NO BD. DIG OUT CELLAR, ND TBG HEAD, SPEAR 4-1/2" CSG. RELEASE CSG HANGER AND PULL TO 150K, SET SHORT BODY SLIPS. ATTEMPT TO BREAK OUT CSG HANGER, WOULD NOT BREAK. HANGER IS BAKER LOCKED TO CSG. CALL FOR PIPE CUTTER AND WELDER. CUT OFF 4-1/2" CSG BELOW HANGER. SLACK OFF CSG BELOW 7" HANGER. RELEASE AND LD SPEAR. DRESS TOP OFF 7" HANGER, WELD CSG HANGER IN PLACE. INSTALL NIGHT CAP. SDFN.

2/9/2024 - CK PRESSURES. SITP-0 PSI, SICP-0 PSI, SIIC-0 PSI, SIBH-10 PSI. NO BD. ND NIGHT CAP. WELD COLLAR ON STUB UP JT, SPEAR CSG, PULL UP 124K WELD 4-1/2" CSG TO STUB UP JT. INSTALL SLIPS AND SET WITH 60K. CUT OFF CSG TO FIT WH. INSTALL H-PLATE, NU TBG HEAD. PRESSURE TEST VOID TO 2000 PSI FOR 5 MIN. GOOD TEST. TIE DRILLING LINE BACK TO DOUBLE FAST. NU BOPE, RU FLOOR. PRESSURE TEST CSG TO 560 PSI FOR 30 MIN W/ RIG PUMP, GOOD TEST. PU RETRIEVING HEAD AND TIH PICKING UP TBG. SFWE.

2/12/2024 - CK PRESSURES. SITP-0 PSI, SICP-0 PSI, SIIC-0 PSI, SIBH-10 PSI. NO BD. PU JT W/ TBG SWIVEL. BRING ON AIR, AFTER FLUID WAS UNLOADED HAD GOOD RETURNS W/ FOAM, CLEANED OFF SAND ON TOP OF RBP. CIRC HOLE CLEAN THEN RELEASED RBP, HOLE EQUALIZED. RAN AIR MAX OF 1500 PSI, CIRC W/ 250 PSI, USED 25 BBLs WATER, 3 GALS FOAMER, AND 2-GALS INHIBITOR. USED 100 GALS DIESEL. TOH. LD RBP. MU BHA FOR PROD. TALLY/PU, LEFT EOT @ 7792'. SDFN.

2/13/2024 - CK PRESSURES. SITP-0 PSI, SICP-60 PSI, SIIC-0 PSI, SIBH-10 PSI. 5 MIN BD. EST CIRC. CO FILL FROM 7850' TO 7856', PBTD 7881'. LAND TBG AS FOLLOWS: 1 – 2-3/8" EXP CHECK, 1 – 2-3/8" X 1.78 SN, 1 – 2-3/8" 4.7# J-55 JT, 1 – 2-3/8" X 2' MARKER JT, 245 – 2-3/8" 4.7# J-55 JTS, 3 – 2-3/8" PUP JTS, 1 – 2-3/8" 4.7# JT, 1 – 2-3/8" X 2K TBG HANGER. EOT @ 7802', SN @ 7800'. RD FLOOR, ND BOPE, NU WH. PRESSURE TEST TBG TO 500 PSI FOR 10 MIN, GOOD TEST. PUMP OFF EXP CHECK AT 800 PSI. CIRC OUT FLUID. RD RR.

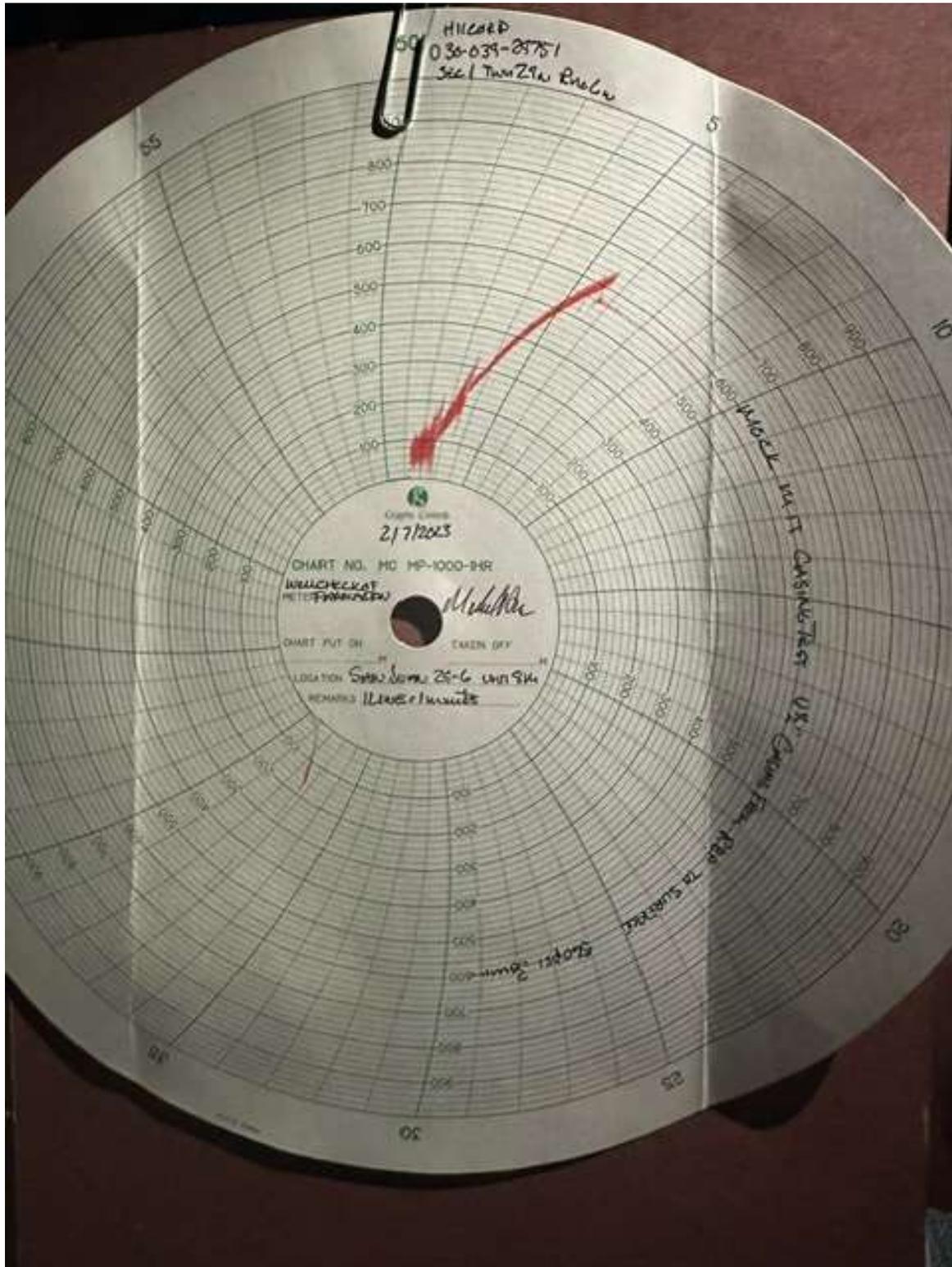
BLM AND NMOC D WERE NOTIFIED OF THE OPERATIONS, NO REPRESENTATIVE ON LOCATION. NMOC D CALLED AND WILL CONDUCT A WITNESSED BH TEST IN 30 DAYS.

SAN JUAN 29-6 UNIT 8M

30.039.29751

INTERMEDIATE CASING REPAIR

UNWITNESSED MIT CHART



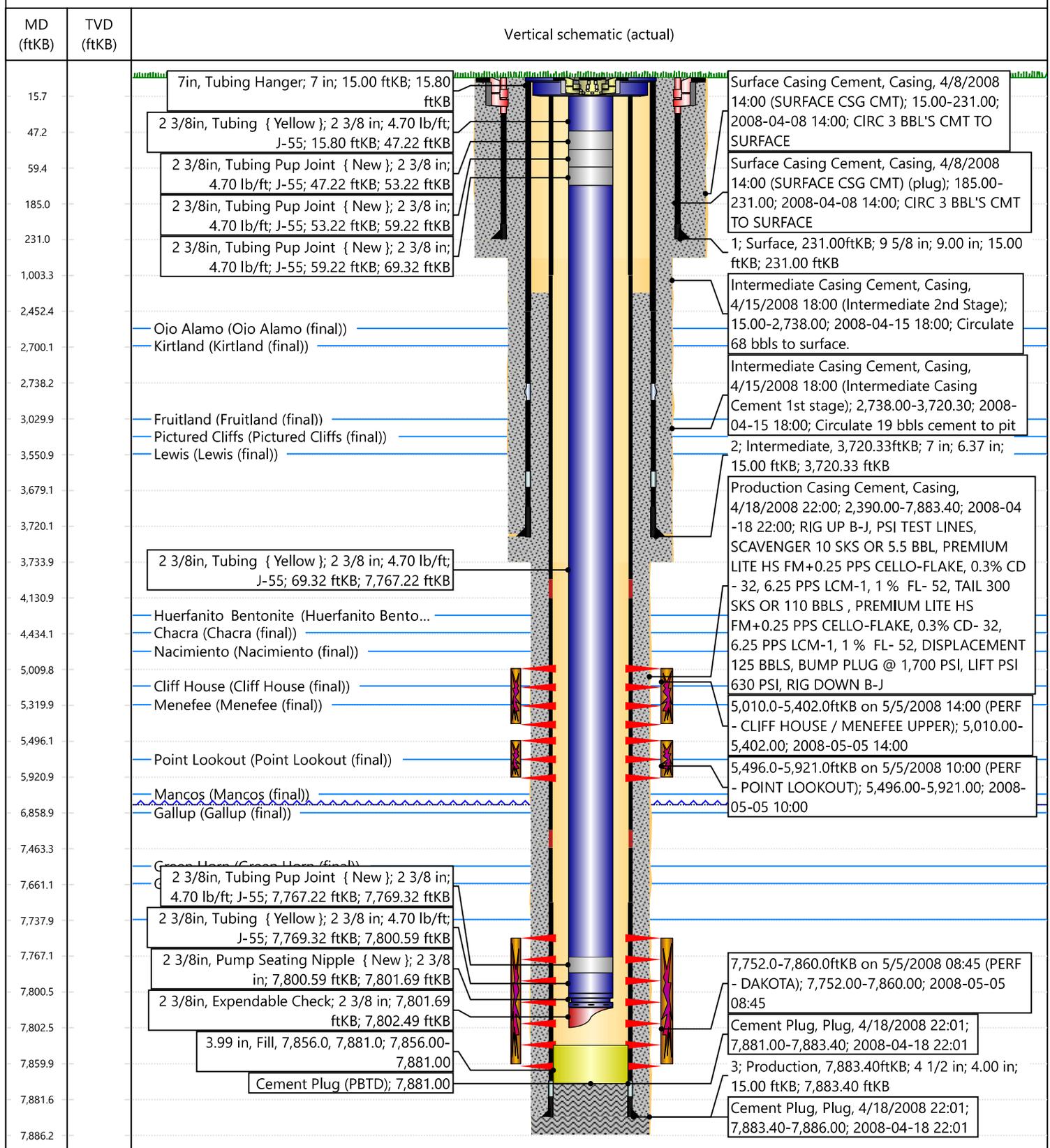


Current Schematic - Version 3

Well Name: SAN JUAN 29-6 UNIT #8M

API / UWI 3003929751	Surface Legal Location 001-029N-006W-K	Field Name MV/DK COM	Route 1205	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,491.00	Original KB/RT Elevation (ft) 6,506.00	RKB to GL (ft) 15.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole [VERTICAL]



Priscilla Shorty

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Thursday, February 8, 2024 8:55 AM
To: Scott Anderson
Cc: Amanda Atencio; Priscilla Shorty; Kade, Matthew H
Subject: Re: [EXTERNAL] FW: Hilcorp - San Juan 29-6 Unit 8M (API: 3003929751)

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No worries, Scott.

The BLM finds the proposal appropriate.

Kenneth (Kenny) Rennick

Petroleum Engineer

Bureau of Land Management
Farmington Field Office
6251 College Blvd
Farmington, NM 87402

Email: krennick@blm.gov
Mobile & Text: 505.497.0019

From: Scott Anderson <sanderson@hilcorp.com>
Sent: Thursday, February 8, 2024 8:02 AM
To: Rennick, Kenneth G <krennick@blm.gov>
Cc: Amanda Atencio <Amanda.Atencio@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>
Subject: [EXTERNAL] FW: Hilcorp - San Juan 29-6 Unit 8M (API: 3003929751)

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Kenny – FYI and apologies for leaving you off the initial email. Let me know if you agree with this plan of attack to resolve the BH and IC pressure on the SJ 29-6 8M.

Scott Anderson
San Juan North – Operations Engineer
Hilcorp Energy Company
W: 713-289-2772
C: 248-761-3965

From: Scott Anderson

Sent: Wednesday, February 7, 2024 4:58 PM

To: Kuehling, Monica, EMNRD <monica.kuehling@state.nm.us>

Cc: Amanda Atencio <Amanda.Atencio@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Brian Bradshaw <Brian.Bradshaw@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Joe McElreath - (C) <jmcelreath@hilcorp.com>; Patrick Hudman <phudman@hilcorp.com>; Juan Cardenas <jcardenas@hilcorp.com>

Subject: Hilcorp - San Juan 29-6 Unit 8M (API: 3003929751)

Monica – Per our phone conversation here is what we know and our path forward on the San Juan 29-6 Unit 8M:

What we know:

- We set a BP above the MV perfs and got a good pressure test on the 4-1/2" to 560 psi. We charted the test for 30 minutes and the 4-1/2" held like a jug
- We dug out around the wellhead and attempted to get a test on the 7" casing with no luck. This could possibly explain the reason for the pressure on the BH
- A CBL was run on 4/25/2008 and demonstrates solid cement above the 7" casing shoe (~600')
- The gas analysis shows common gas across all strings
- The pressure on the IC and BH pressure bled off, slowly built to 25 psi and has stabilized there
- Given that:
 - The MIT test on the 4-1/2" shows there is no communication between the 4-1/2" and 7"
 - The CBL shows there is no gas path between the perfs and the intermediate casing
 - The BH, IC and PC share the same gas analysis
 - The BH and IC appear to be in direct communication via the wellheadTherefore, the leak is most likely at the wellhead

Our path forward:

- Rig down the rig
- Excavate around the wellhead to expose the entirety of the BH and IC sections of the wellhead.
- Remove the PC section
- Cut off the mandrel-style IC section and replace with a flange-style IC section
- Retest the wellhead to verify that all strings are properly isolated and fill in the cellar
- Rig up the workover rig
- Remove the RBP and reconduct the BH test

Let me know if you have any questions. Thank you!

Scott Anderson

San Juan North – Operations Engineer

Hilcorp Energy Company

W: 713-289-2772

C: 248-761-3965

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Priscilla Shorty

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Thursday, February 8, 2024 9:38 AM
To: Scott Anderson
Cc: Amanda Atencio; JP Knox; Mandi Walker; Priscilla Shorty; Brian Bradshaw; Ben Mitchell; Christian Zuvich; Joe McElreath - (C); Patrick Hudman; Juan Cardenas
Subject: RE: [EXTERNAL] Hilcorp - San Juan 29-6 Unit 8M (API: 3003929751)

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NMOCD approves below – please notify me 24 hours prior to moving a rig back on.

Thank you

Monica Kuehling
Compliance Officer Supervisor
Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 314215

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 314215
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Bradenhead test required in 30 days 6months and 1 year after rig move with witness from this office.	2/16/2024