

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

Well Name: HOWELL K	Well Location: T30N / R8W / SEC 17 / SENE / 36.813965 / -107.692032	County or Parish/State: SAN JUAN / NM
Well Number: 4	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078578A	Unit or CA Name:	Unit or CA Number: NMNM73363
US Well Number: 3004509510	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2776773

Type of Submission: Subsequent Report

Type of Action: Workover Operations

Date Sundry Submitted: 02/26/2024

Time Sundry Submitted: 03:34

Date Operation Actually Began: 02/14/2024

Actual Procedure: Hilcorp Energy has repaired the source of the intermediate pressure on the subject well. The bradenhead pressure will be monitored as described in the attached daily report.

SR Attachments

Actual Procedure

Howell_K_4_SR_BLM_Submitted_20240226153353.pdf

Well Name: HOWELL K

Well Location: T30N / R8W / SEC 17 /
SENE / 36.813965 / -107.692032County or Parish/State: SAN
JUAN / NM

Well Number: 4

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMSF078578A

Unit or CA Name:

Unit or CA Number:
NMNM73363

US Well Number: 3004509510

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 26, 2024 03:34 PM

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: 02/27/2024

Signature: Matthew Kade

HOWELL K 4

30.045.09510

BRADENHEAD REPAIR

2/14/2024 - MIRU CK PRESSURES. BH 65#, INT 31#, CSG 11#, TBG 11#. BD. ND WH, NU BOP. PULL HANGER TO RIG FLOOR, TAG FOR FILL, NO FILL, PBTD @ 4944'. SCAN OUT TBG. PUMPED PACKING INTO TBG HANGER, TESTED 250 LOW, 1500 HIGH. DUG AROUND WH TO LOOK FOR PACKING PORT, DID NOT FIND ONE. PU 7" SCRAPER, SLM, TIH TO 3380'. TOOHD LD SCRAPER. TIH W/ RBP, SET @ 3373'. PRE-TEST CSG TO 600 PSI. SDFN.

2/15/2024 - CK PRESSURES. BH 10#, INT 20#, CSG 0#, TBG 0#. NO BD. POUR 3 BUCKETS OF SAND DOWN CSG. TOOHD, LOAD HOLE W/ 4 BBL. MIT TO 560 PSI HELD AND CHARTED. BH TEST PASSED, CSG DID NOT FLOW WATER, SIP WAS 7 PSI ON TEST, **JOHN DURHAM, NMOCD, ON LOCATION WITNESSED MIT AND BH TESTS. HEC ENGINEER EMAILED MONICA KUEHLING, NMOCD, AND KENNY RENNICK, BLM, ON THE PASSED MIT AND PATH FORWARD TO PERF 7" PROD CSG AT 2800', SET CICR @ 2750', AND SQUEEZE BEHIND 7". DO CMT AND CICR. VERIFY PRESSURE ISOLATION ON IC. MIT, PULL RBP, AND RTP. BLM AND NMOCD APPROVED THE PROPOSAL.** RIH TO 2800' SHOT 4 HOLES. TOOHD. CIRC HOLE DOWN 7" CSG, UP BACKSIDE, 88 BBLs CLEAN, NO FLOW, BH GOT 7 PSI ON START OF PUMPING DOWN BACKSIDE. TIH W/ 7" CICR SET @ 2750'. RU CMT CREW. **MIX 117 SX TYPE 3 NEAT. 14.6# YIELD, 1.37, MW 6.64 GAL. REVERSE CIRC 25 BBLs, ¼ BBL BACK CMT. 10' CMT ON TOP OF CICR, CMT TOP @ 2476'.** SDFN.

2/16/2024 - CK PRESSURES. BH 0#, INT 0#, CSG 0# TBG 0#. NO BD. TOOHD. PU 6-1/4" BIT JUNK BASKET, TIH, TAG @ 2724'. PU POWER SWIVEL, DRILL CMT F/ 2774' T/ 2750'. DRILL CMT RETAINER, WAS TURNING. DRILL CMT F/ 2752' TO 2755'. SDFWE.

2/19/2024 - CK PRESSURES. BH 10#, INT 0#, CSG 0# TBG 0#. NO BD. DO CMT F/ 2755' TO 2804'. CIRC HOLE CLEAN. PRE-MIT TEST. 560 PSI HELD. TOOHD, LD DRILL COLORS & BIT. **JOHN DURHAM WITNESSED BH TEST 9 PSI ½ STREAM WATER BACK TO PIT, 105 GAL IN 30 MIN, 9-5/8" CSG TEST 0 PSI, NO WATER. MIT TEST 7" 560 PSI 30 MIN CHARTED TEST. HEC ENGINEER SENT AN EMAIL TO MONICA KUEHLING, NMOCD, AND KENNY RENNICK, BLM, NOTIFYING THEM 2 WATER SAMPLES WERE TAKEN, ONE FROM THE BH AND THE OTHER FROM THE RIVER. RESULTS WILL BE SENT TO THE AGENCIES ASAP. NMOCD APPROVED THE RIG TO MOVE OFF THE WELL AND REQUESTED A BH TEST IN 30 DAYS, 6 MONTHS, AND 1 YEAR. THE WATER ANALYSIS WILL DETERMINE IF THE RIG NEEDS TO BE MOVED BACK ON. A CBL IN THE AREA CEMENTED WAS ALSO REQUESTED.** SDFN.

2/20/2024 - CK PRESSURES. BH 10#, INT 0#, CSG 0# TBG 0#. NO BD. ND STRIPPER HEAD, NU PACK OFF, RU WIRELINE. RUN CBL, LOG F/ 3350' TO SURFACE. RD WIRELINE. TOC @ 2325'. **HEC ENGINEER SENT KENNY RENNICK, BLM, AND MONICA KUEHLING, NMOCD, THE CBL, SHOWING THE TOC @ 2325'.** TIH W/ RETRIEVING TOOL, CO, PUMP SWEEPS, STING INTO RBP. TOOHD LD RBP, RUN PRODUCTION AS 1-EXP CHECK, 1-SN, 154 JTS 2-3/8 TBG, 1-TBG HANGER. SET @ 4870', SN @ 4869'. SDFN.

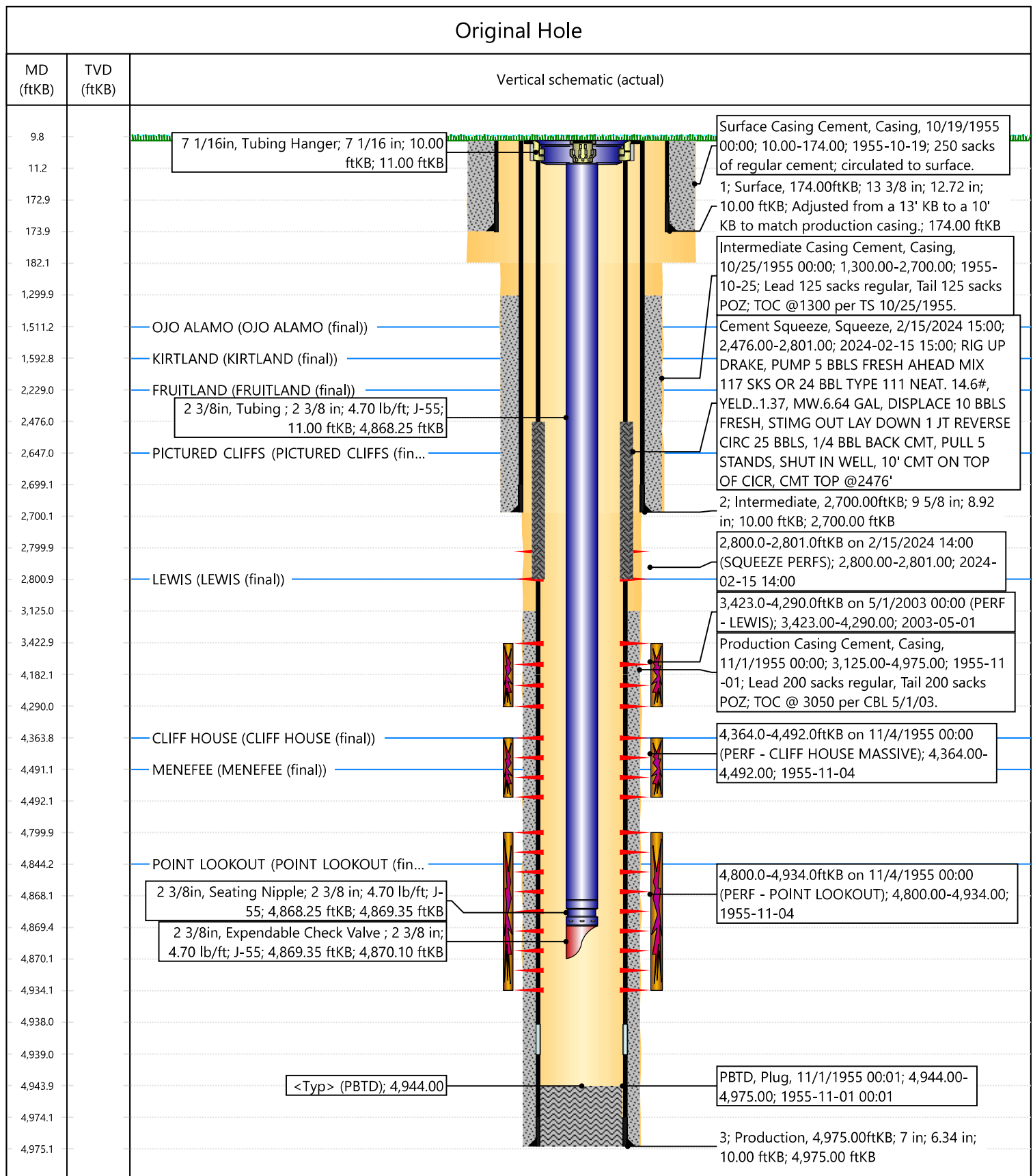
2/21/2024 - CK PRESSURES. BH 10#, INT 0#, CSG 40# TBG 0#. NO BD. ND BOP. NU WH, RIG UP & PUMP OFF CHECK, PUMP 4 BBLs WATER, DROP BALL, PSI UP T/ 500 PSI HOLD. PSI UP T/ 950 PUMP OFF CHECK. RD RR.



Current Schematic - Version 3

Well Name: HOWELL K #4

API / UWI 3004509510	Surface Legal Location 017-030N-008W-H	Field Name BLANCO MESAVERDE (PRORAT #0078	Route 0409	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,867.00	Original KB/RT Elevation (ft) 5,877.00	RKB to GL (ft) 10.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	





NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
[http://emnr.state.nm.us/ocd/District III/3district.htm](http://emnr.state.nm.us/ocd/District%20III/3district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 15-FEB-2024 Operator HILLTOP API #30-0 45-09510

Property Name HOWELL K Well No. 4 Location: Unit ___ Section 17 Township 30 Range 8

Well Status(Shut-In or Producing) Initial PSI: Tubing NA Intermediate 20 Casing 0 Bradenhead 10

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	Bradenhead			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	0	20	0	5	0
10 min	0	20	0	5	0
15 min	0	20	0	5	0
20 min				5	0
25 min				5	0
30 min				5	0

	FLOW CHARACTERISTICS	
	BRADENHEAD	INTERMEDIATE
Steady Flow		✓
Surges		
Down to Nothing	✓	
Nothing		
Gas	✓	
Gas & Water		
Water		✓

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR ✓ FRESH ___ SALTY ___ SULFUR ___ BLACK ___

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE 7

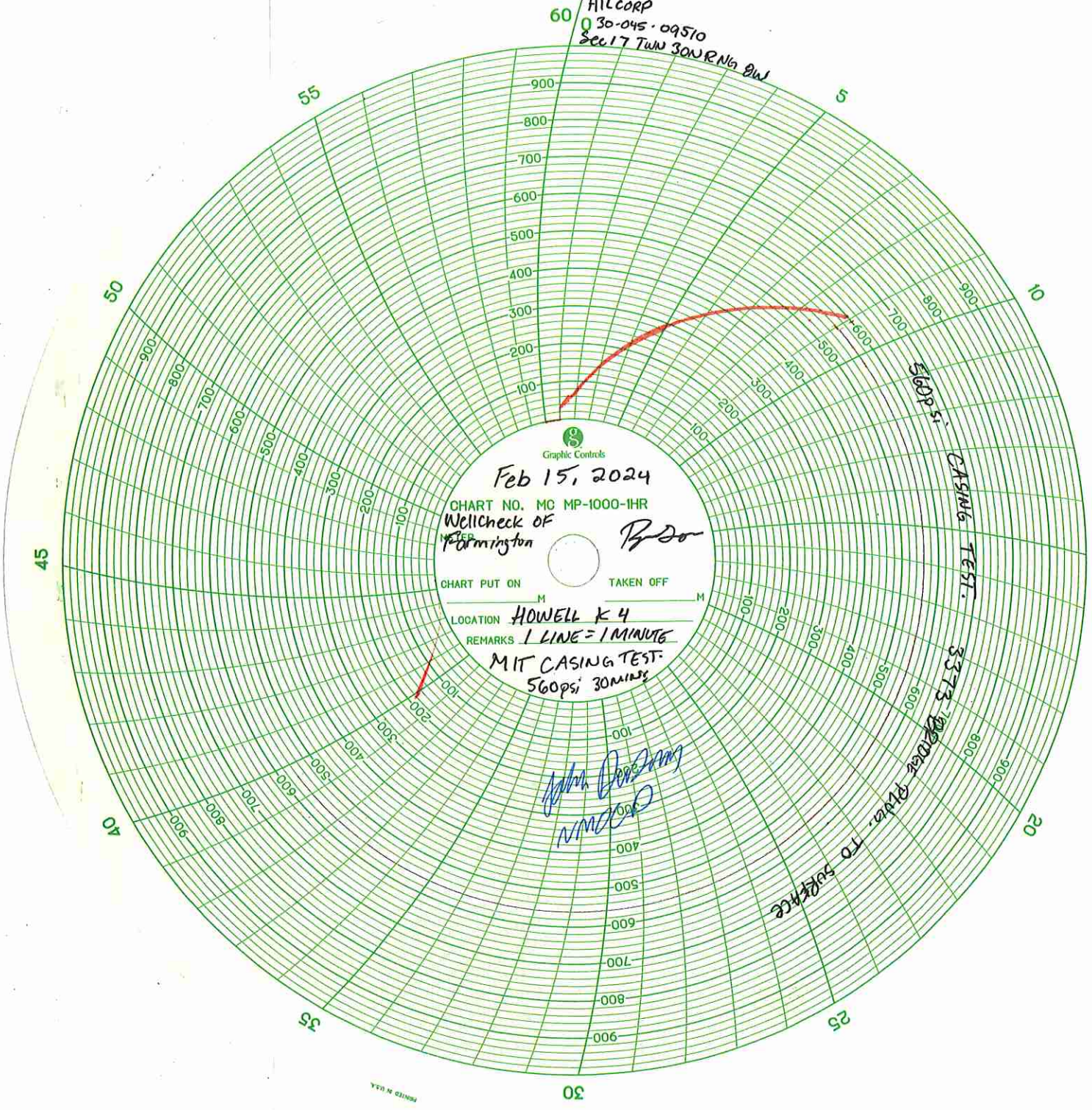
REMARKS: INTERMEDIATE MADE APPROXIMATELY 20
GALLONS OF WATER IN 30 MINUTES

By Shan Huby

Witness [Signature]

(Position)

E-mail address _____





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

MECHANICAL INTEGRITY TEST REPORT (TA OR UIC)

Date of Test 15-FEB-2024 Operator HILLTOP API # 30-0 45-09510

Property Name HOWELL K Well # 4 Location: Unit H Sec 17 Twn 2 Rge 10

Land Type:

State _____
Federal X
Private _____
Indian _____

Well Type:

Water Injection _____
Salt Water Disposal _____
Gas Injection _____
Producing Oil/Gas X
Pressure observation _____

Temporarily Abandoned Well (Y/N): _____ TA Expires: _____

Casing Pres. 560
Bradenhead Pres. 0
Tubing Pres. N/A
Int. Casing Pres. 7

Tbg. SI Pres. _____
Tbg. Inj. Pres. _____

Max. Inj. Pres. _____

Pressured annulus up to 560 psi. for _____ mins. Test passed/failed

REMARKS: A PACKER WAS SET AT 3373.

1000 PSI SPRING 60 MINUTE CLOCK
THE CASING WAS PRESSURED UPTO 560 PSI, AND
PRESSURE HELD FOR THE ENTIRE TEST

By Shane H. B.
(Operator Representative)

Witness [Signature]
(NMOCD)

(Position)

Revised 02-11-02



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
[http://emrdr.state.nm.us/ocd/District III/3distric.htm](http://emrdr.state.nm.us/ocd/District%20III/3distric.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test February 19, 2024 Operator Hilcorp Energy Co. API #30-0 45-09510
Property Name Howell K Well No. 4 Location: Unit H Section 7 Township 30N Range 8W
Well Status (Shut-In or Producing) Initial PSI: Tubing N/A Intermediate 144 Casing 0 Bradenhead 9

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE			INTERM	
	BH	Bradenhead Int	Csg	Int	Csg
5 min	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
10 min	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
15 min	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
20 min	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
25 min	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
30 min	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

FLOW CHARACTERISTICS

BRADENHEAD	INTERMEDIATE
Steady Flow <u>✓ flowing water</u>	
Surges	
Down to Nothing	
Nothing <u>✓ N/A</u>	<u>✓</u>
Gas	
Gas & Water	
Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR ✓ FRESH ✓ SALTY ✓ SULFUR ✓ BLACK ✓

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 9 INTERMEDIATE 0

REMARKS:

36" to the water in BGT - 105 gals/inch 35" from top to water
0 psi when opened - flowing water to pit. 0-5min, 0-10min, 0-15min, 0-20min,
0-25min, 0-30min, 0-5min shut in Water flowed duration of test.

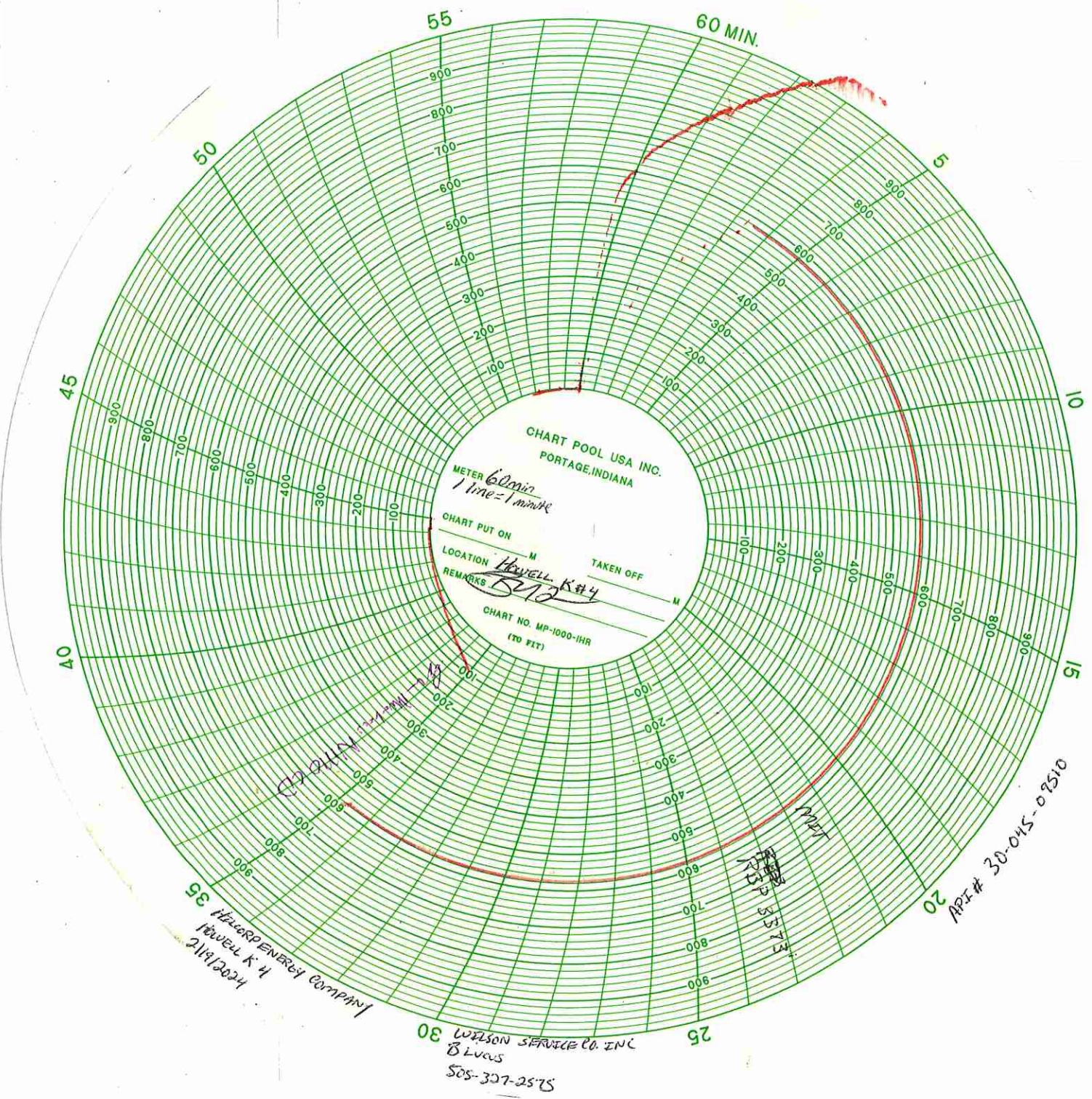
By Shane H. [Signature]

Witness [Signature]

NMOC

(Position)

E-mail address _____





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

MECHANICAL INTEGRITY TEST REPORT (TA OR UIC)

Date of Test February 19, 2024 Operator Hilcorp Energy Co. API # 30-0 45-09510

Property Name Howell K Well # 4 Location: Unit H Sec 17 Twp 2N Rge 3W

Land Type:

State _____
Federal ☒
Private _____
Indian _____

Well Type:

Water Injection _____
Salt Water Disposal _____
Gas Injection _____
Producing Oil/Gas ☒
Pressure observation _____

Temporarily Abandoned Well (Y/N): _____ TA Expires: _____

Casing Pres. 5

Tbg. SI Pres. _____

Max. Inj. Pres. _____

Bradenhead Pres. 5

Tbg. Inj. Pres. _____

Tubing Pres. _____

Int. Casing Pres. _____

Pressured annulus up to 578 psi. for 30 mins. Test passed/failed

REMARKS: 3373 @ RBP 1000# Spring last calibrated 1-17-2024
Pressured up to 578psi for 30min held pressure.

By [Signature]
(Operator Representative)

Witness [Signature]
(NMOCD)

(Position)

Revised 02-11-02

Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410
Phone: (505) 334-6178 * Fax (505) 334-6170 * <http://www.emnrd.state.nm.us>

Priscilla Shorty

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Friday, February 16, 2024 8:58 AM
To: Rennick, Kenneth G; Scott Anderson
Cc: Brian Bradshaw; Amanda Atencio; Christian Zuvich; Shane Smith; JP Knox; Michael Mayfield; Priscilla Shorty; Mandi Walker; Tammy Jones; Ben Mitchell; Shane Hendry - (C)
Subject: RE: [EXTERNAL] Howell K 4 (API: 3004509510)

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NMOCD approves below

Thank you

Monica Kuehling
Compliance Officer Supervisor
Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
North District
Office Phone: 505-334-6178 ext. 123
Cell Phone: 505-320-0243
Email - monica.kuehling@emnrd.nm.gov

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Thursday, February 15, 2024 12:12 PM
To: Scott Anderson <sanderson@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Brian Bradshaw <Brian.Bradshaw@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Tammy Jones <tajones@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Shane Hendry - (C) <Shane.Hendry@hilcorp.com>
Subject: Re: [EXTERNAL] Howell K 4 (API: 3004509510)

The BLM finds the proposal appropriate. No questions at this time.

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From: Scott Anderson <sanderson@hilcorp.com>
Sent: Thursday, February 15, 2024 11:31:29 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@state.nm.us>; Rennick, Kenneth G <krennick@blm.gov>
Cc: Brian Bradshaw <Brian.Bradshaw@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Tammy Jones <tajones@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Shane Hendry - (C) <Shane.Hendry@hilcorp.com>
Subject: [EXTERNAL] Howell K 4 (API: 3004509510)

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Monica, Kenny – The production casing in the Howell K 4 was successfully MIT'd to 560 psi this morning eliminating a HIC from the list of potential sources of BH and IC casing pressure and flow. We were able to pack off the wellhead yesterday, though, and got a successful test on the BH this morning (witnessed). However, the intermediate casing did not pass and we are moving forward with remediating. Here is the detail behind the procedure outlined in the NOI:

1. Perforate the 7" production casing at 2800'. This is 100' below the 9-5/8" intermediate casing shoe and in good free pipe (as indicated by the CBL run on 5/1/2003).
2. Set a CICR in the 7" production casing at 2750'.
3. Pump a circulating squeeze behind the 7" and into the 7" x 9-5/8" annulus to a minimum height of 2600'. Our current estimate on cement volume is ~90-100 sx to achieve this coverage
4. Drill out cement and CICR. Verify pressure isolation on IC
5. Re-MIT 7" production casing, pull RBP, and re-install production tubing
6. Reconduct witnessed BH test after 30 days

Please let me know if you have any questions or concerns

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: Wednesday, February 21, 2024 6:55 AM
To: Scott Anderson; Rennick, Kenneth G
Cc: Brian Bradshaw; Amanda Atencio; Christian Zuvich; Shane Smith; JP Knox; Michael Mayfield; Priscilla Shorty; Mandi Walker; Tammy Jones; Ben Mitchell; Shane Hendry - (C)
Subject: RE: [EXTERNAL] Howell K 4 (API: 3004509510)

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Thank you Scott

Please submit log through e-permitting

Monica Kuehling
Compliance Officer Supervisor
Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
North District
Office Phone: 505-334-6178 ext. 123
Cell Phone: 505-320-0243
Email - monica.kuehling@emnrd.nm.gov

From: Scott Anderson <sanderson@hilcorp.com>
Sent: Tuesday, February 20, 2024 2:39 PM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>
Cc: Brian Bradshaw <Brian.Bradshaw@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Tammy Jones <tajones@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Shane Hendry - (C) <Shane.Hendry@hilcorp.com>
Subject: RE: [EXTERNAL] Howell K 4 (API: 3004509510)

Monica, Kenny – Attached is the CBL that we ran this morning on the Howell K 4. You should already have a copy of the original CBL run in 5/2003, but if you do not I will be happy to send it your way. New TOC is at 2325', which is 375' above the intermediate casing shoe.

We will schedule the well for another BH test in 30 days to retest all strings to showcase that the IC is still in compliance. We will also plan on retesting after 6 months and 1 year.

As for the BH, we are expecting the water analysis to be complete by the end of this week. As soon as I have those in hand I will forward them your way.

Scott Anderson
San Juan North – Operations Engineer
Hilcorp Energy Company

W: 713-289-2772

C: 248-761-3965

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>

Sent: Monday, February 19, 2024 5:05 PM

To: Scott Anderson <sanderson@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>

Cc: Brian Bradshaw <Brian.Bradshaw@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Tammy Jones <tajones@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Shane Hendry - (C) <Shane.Hendry@hilcorp.com>

Subject: RE: [EXTERNAL] Howell K 4 (API: 3004509510)

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Scott

I am assuming you would like to move off the well.

The MIT passed – the intermediate had no water or pressure – the bradenhead has more water than it has had in its past.

We will need – like you said – do another bradenhead test in 30 days after rig move – 6 months and 1year after rig move.

That being said – what determines whether the rig will have to move back on is in the analysis of the bradenhead water. The analysis will have to be reviewed by management.

Once analysis is received by Hilcorp, please forward to us as soon as possible.

If logs have not been submitted, please submit all logs ran through e-permitting. A CBL also needs to be ran of the area cemented.

NMOCD approves the moving off of the rig with prior approval from the BLM

Include emails from NMOCD and BLM in subsequent

Thank you

Monica Kuehling
Compliance Officer Supervisor
Deputy Oil and Gas Inspector
New Mexico Oil Conservation Division
North District
Office Phone: 505-334-6178 ext. 123
Cell Phone: 505-320-0243
Email - monica.kuehling@emnrd.nm.gov

From: Scott Anderson <sanderson@hilcorp.com>

Sent: Monday, February 19, 2024 3:46 PM

To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>

Cc: Brian Bradshaw <Brian.Bradshaw@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Christian Zuvich <Christian.Zuvich@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>; Priscilla Shorty <pshorty@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Tammy Jones <tajones@hilcorp.com>; Ben Mitchell <bemitchell@hilcorp.com>; Shane Hendry - (C) <Shane.Hendry@hilcorp.com>

Subject: [EXTERNAL] Howell K 4 (API: 3004509510)

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Monica, Kenny - Here is an update on the Howell K4:

- The squeeze on the IC was successful: we passed the MIT and the IC is sitting at 0 psi with 0 flow. We will continue to monitor and verify with an additional BH test after 30 days
- The BH built up to 10 psi this morning and flowed water (no gas) during the witnessed test. I have 2 expedited samples into Greens for analysis - 1 from the BH and 1 from the river, as it is very possible that the 2 are connected (it may be coincidental, but the river and surface casing sit at exactly the same elevation) and this is in fact nothing more than artesian flow. I am hopefully optimistic that the new sample on the BH will show that the TDS is lower than previously tested (chalk it up to a bad test), but that the chlorides will be similar to the river. I do not have an estimated time for the tests to be back, but I will check on them tomorrow morning.

Scott Anderson

San Juan North – Operations Engineer

Hilcorp Energy Company

W: 713-289-2772

C: 248-761-3965

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 317856

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 317856
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
andrew.fordyce	Accepted for record.	9/19/2025