Well Name: APACHE

Well Location: T26N / R3W / SEC 18 / NWNW /

County or Parish/State: RIO ARRIBA / NM

Well Number: 1

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC98

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003920199

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2714823

Type of Submission: Subsequent Report

Type of Action: Workover Operations

Date Sundry Submitted: 02/08/2023

Time Sundry Submitted: 03:17

Date Operation Actually Began: 01/19/2023

Actual Procedure: Hilcorp Energy has repaired the tubing on the subject well, the root cause of the packer failure. Attached are the operations details, packer test, and wellbore schematic.

SR Attachments

Actual Procedure

Apache_1_Tbg_Repair_Pkr_Failure_SR_20230208151617.pdf

Well Name: APACHE	**Well Location:** T26N / R3W / SEC 18 / NWNW /	**County or Parish/State:** RIO ARRIBA / NM
Well Number: 1	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:** JICARILLA APACHE
Lease Number: JIC98	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3003920199	**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 08, 2023 03:17 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: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Accepted

Disposition Date: 02/21/2023

Signature: Kenneth Rennick

APACHE 1 - 30.039.20199 TUBING REPAIR DUE TO PACKER FAILURE

1/19/2023 – MIRU. BH-0 PSI, CSG-630 PSI, TBG-630 PSI (DAKOTA), TBG-80 PSI (GALLUP). ND WH, NU BOP, RU FLOOR. SDFN.

1/20/2023 – BH-0 PSI, CSG-400 PSI, TBG-400 PSI (DAKOTA), TBG-60 PSI (GALLUP). NU OFFSET SPOOL. TOOH INSPECTING UPPER TBG STRING (GALLUP). ND OFFSET SPOOL AND RAMS. INSTALL CENTER BORE RAMS, TBG STUCK. WORK TBG, PARTED. TOOH INSPECTING LOWER TBG STRING (DAKOTA). LAND RECOVERED 163 JTS OUT OF 243 JTS. TBG PARTED AT PIN END OF JT. SDFWD.

1/23/2023 - BH-0 PSI, CSG-580 PSI. SPOT IN TBG FLOAT. PU OVERSHOT W/ BASKET GRAPPLE. KILL WELL. TALLY AND PU TBG TO FISH TOP AT 5353'. LATCH ONTO FISH. WORK STUCK TBG. TBG CAME FREE. SDFN.

1/24/2023 - BH-0 PSI, CSG-250 PSI, TBG-250 PSI. TOOH W/ TBG. LD FISH, RECOVERED ALL TBG. LD FISHING TOOLS. PACKER SEAL ASSEMBLY WILL NEED TO BE REPAIRED. SDFN.

1/25/2023 - BH-0 PSI, CSG-230 PSI. MU PROD BHA AND PACKER SEAL ASSEMBLY (W/ ANCHOR LATCH). TALLY, DRIFT AND PU TBG. TAGGED TOP OF PACKER AT 7708' (REPORT SHOWED MODEL D PACKER TO BE AT 7723'). LANDED 242 JTS 1-1/4" J-55 TBG AT 7876'. SN @ 7875' AND PACKER AT 7708'. RD FLOOR AND HANDLING TOOLS. ND BOP. NU WH. SDFN.

1/26/2023 - BH-0 PSI, CSG-150 PSI, TBG-0 PSI. START UP AIR UNIT. PRESSURE UP TBG TO CONFIRM EOT WAS NOT PLUGGED. PRESSURE UP AND WATCH PRESSURE DROP. BYPASS AND RD AIR UNIT. BD TBG. RD RIG AND EQUIP. RELEASE RIG.

2/8/2023 – PACKER TEST PERFORMED AND WITNESSED BY JASON SANDOVAL WITH JOCD. PACKER TEST ATTACHED.

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Revised June 10, 2003

Operator Hilcorp Energy Company Lease Name APACHE Well No. 1

Location of Well: Unit Letter D Sec 18 Twp 026N Rge 003W API # 30-039-20199

	Name of Reservoir or Pool	Type of Prod	Method of Prod	Prod Medium
Upper Completion	GL	Gas	Flow	Casing
Lower Completion	DK	Gas	Flow	Tubing

Pre-Flow Shut-In Pressure Data

	Hour, Date, Shut-In	Length of Time Shut-In	SI Press. PSIG	Stabilized?(Yes or No)
Upper Completion	1/30/2023	228	497	Yes
Lower Completion	1/30/2023		451	Yes

Flow Test No. 1

Commenced at: 1/30/2023 Zone Producing (Upper or Lower): UPPER

Time (date/time)	Lapsed Time Since*	PRESSURE Upper zone	PRESSURE Lower zone	Prod Zone Temperature	Remarks
2/6/2023 10:45 AM	178	497	451	56	Both zones shut in
2/7/2023 3:34 PM	207	497	451	56	Both zones shut in
2/8/2023 11:42 AM	227	497	451	56	Both zones SI
2/8/2023 11:52 AM	227	332	451	44	Lower zone SI Upper zone producing through separator to tank. 10 min flow test
2/8/2023 12:23 PM	228	21	451	44	Lower zone SI, Upper zone flowing through separator to tank, 30 min flow test. Flow test complete. SI Upper zone put Lower zone back in production.

Production rate during test

Oil: _____ BOPD Based on: _____ Bbls. In _____ Hrs. _____ Grav. _____ GOR _____

Gas _____ MCFPD; Test thru (Orifice or Meter) _____

Mid-Test Shut-In Pressure Data

	Hour, Date, Shut-In	Length of Time Shut-In	SI Press. PSIG	Stabilized?(Yes or No)
Upper Completion				
Lower Completion				

(Continue on reverse side)

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at:		Zone Producing (Upper or Lower)			
Time (date/time)	Lapsed Time Since*	PRESSURE		Prod Zone Temperature	Remarks
		Upper zone	Lower zone		

Production rate during test

Oil: _____ BOPD Based on: _____ Bbls. In _____ Hrs. _____ Grav. _____ GOR _____

Gas _____ MCFPD; Test thru (Orifice or Meter) _____

Remarks:

Jason Sandoval with JOCD witnessed test

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved: _____ 20 _____

New Mexico Oil Conservation Division

By: _____

Title: _____

Operator: Hilcorp Energy Company

By: Danny Roberts

Title: Multi-Skilled Operator

Date: Wednesday, February 8, 2023

NORTHWEST NEWMEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.

3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.

4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Hilcorp Energy Company

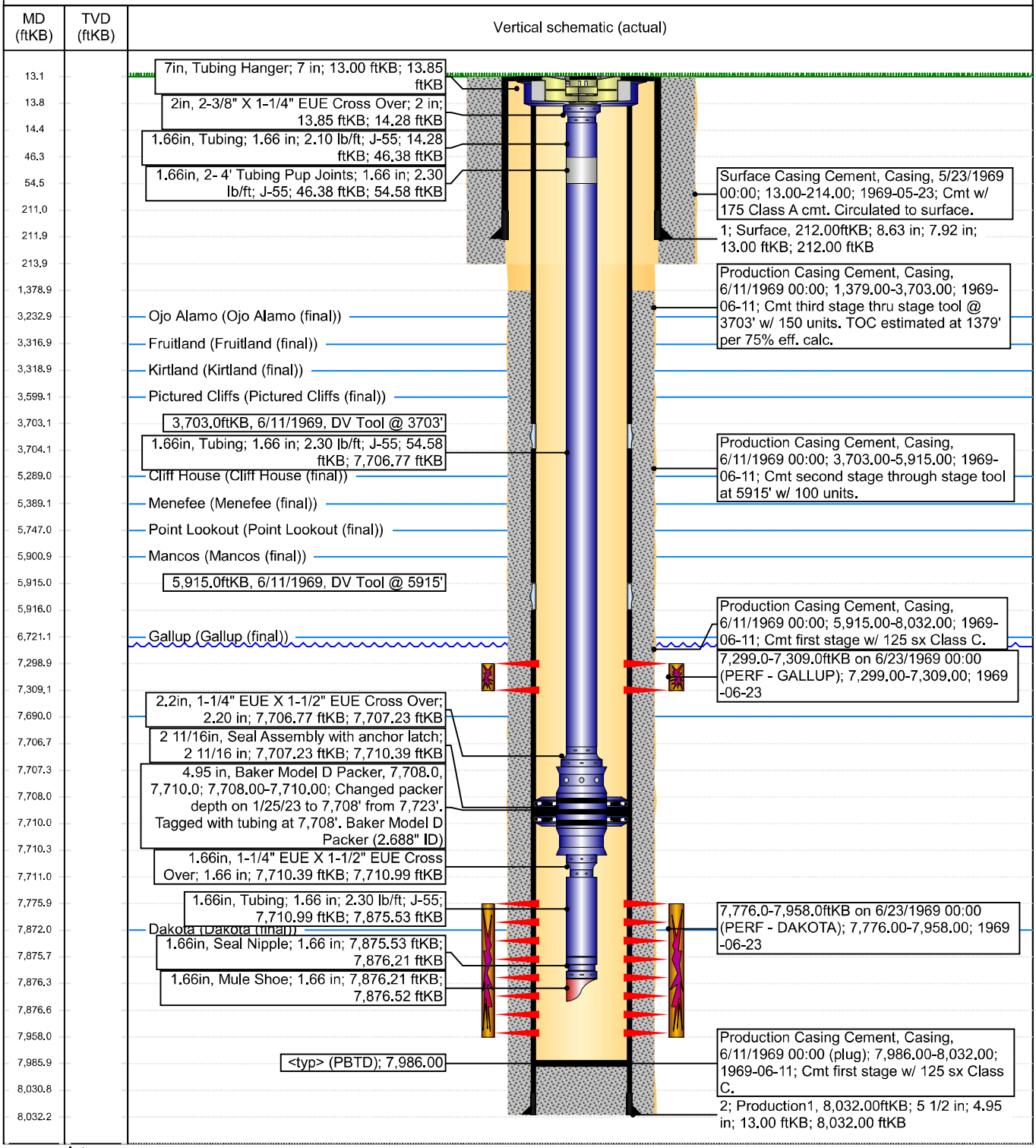
Current Schematic - Version 3

Well Name: APACHE #1

API / UWI	Surface Legal Location	Field Name	Route	State/Province	Well Configuration Type
3003920199	018-026N-003W-D	GL/DK DUAL	1414	NEW MEXICO	Vertical

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,912.00	6,925.00	13.00		

Original Hole [Vertical]



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 188889

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 188889
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	2/22/2023