

Well Name: SAN JUAN 29-5 UNIT	Well Location: T29N / R5W / SEC 18 / NENE / 36.729614 / -107.393143	County or Parish/State: RIO ARRIBA / NM
Well Number: 68	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078281	Unit or CA Name: SAN JUAN 29-5 UNIT--DK, SAN JUAN 29-5 UNIT--MV	Unit or CA Number: NMNM78415A, NMNM78415B
US Well Number: 3003920712	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2655120

Type of Submission: Subsequent Report	Type of Action: Cement Remediation
Date Sundry Submitted: 02/01/2022	Time Sundry Submitted: 09:16
Date Operation Actually Began: 12/13/2021	

Actual Procedure: Please see attached remedial workover summary for the subject well.

SR Attachments

Actual Procedure

San_Juan_29_5_Unit_68_Subseq_BH_Repair_filed_20220201091526.pdf

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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: TAMMY JONES	Signed on: FEB 01, 2022 09:16 AM
Name: HILCORP ENERGY COMPANY	
Title: Regulatory Compliance Specialist	
Street Address: 382 ROAD 3100	
City: AZTEC	State: NM
Phone: (505) 324-5185	
Email address: tajones@hilcorp.com	

Field Representative

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: 02/03/2022
Signature: Kenneth Rennick	

SAN JUAN 29-5 UNIT 68

30.039.20712

BRADENHEAD REPAIR

12/13/2021 – MIRU. BD WELL. CK PRESSURES: BH – 95 PSI, INT – 95 PSI, CSG – 38 PSI, TBG – 38 PSI. ND WH, NU BOP, PULL TBG HANGER. TOO H INSPECTING TBG. MU 3-7/8" STRING MILL. TIH TO 5237'. TOO H W/ TBG. LD STRING MILL. SWI. SDFN.

12/14/2021 - CK PRESSURES: BH – 40 PSI, INT – 40 PSI, CSG – 40 PSI. PU PKR AND SET AT 30'. PT CSG FROM 30' TO SURF, GOODTEST. RELEASE AND LD PKR. MU 4-1/2" CIBP AND SET AT 5204'. LOAD CSG AND CIRC CLEAN. PT CSG TO 560', GOOD TEST. LOAD INT CSG, CIRC UP BH. TOO H, LD SETTING TOOL. SWI. SDFN.

12/15/2021 – **HEC SENT BLM AND NMOCD AN E-MAIL ON FINDINGS AND PLANS TO PERF, SQUEEZE, CUT AND PULL 4-1/2" CSG. APPROVAL WAS GIVEN BY BOTH AGENCIES TO MOVE FORWARD AND TO PROVIDE AN UPDATE AFTER PULLING 4-1/2" CSG AND PRIOR TO SQUEEZING 7" CSG.** CK PRESSURES: BH – 0 PSI, INT – 0 PSI, CSG – 0. PT CSG TO 560 PSI, TEST GOOD. PUMP DOWN INT AND BH. CIRC CLEAN. RU WIRELINE. RIH AND PERF SQUEEZE HOLES AT 3832'. EST CIRC DOWN CSG AND UP INT. RD WIRELINE. MU 4-1/2" CMT RETAINER. TIH AND SET AT 3782'. EST CIRC. MIX AND PUMP 41 SXS TYPE III. DISPLACE DOWN RETAINER AND STING OUT. REVERSE CIRC. TOO H LD SETTING TOOL. SWI. SDFN.

12/16/2021 - CK PRESSURES: BH – 0 PSI, INT – 0 PSI, CSG – 0 PSI. PU PKR AND SET AT 30'. TIH AND TAG TOC AT 3751'. DO CMT FROM 3751' TO RETAINER AT 3782'. DO CMT RETAINER AND FALL OUT AT 3840'. CIRC CLEAN. TOO H. RUN CBL FROM 4500' TO SURFACE. SWI. SDFN.

12/17/2021 - CK PRESSURES: BH – 0 PSI, INT – 0 PSI, CSG – 0 PSI. RUN CBL FROM 4500' TO SURFACE. PT CSG TO 560 PSI, GOOD TEST. **HEC SENT NMOCD & BLM CBL AND PLANS TO CUT 4-1/2" CSG.** SWI SDFWE.

12/20/2021 - CK PRESSURES: BH – 50 PSI, INT – 0 PSI, CSG – 0 PSI. **RECEIVED APPROVAL FROM MONICA KUEHLING, NMOCD & KENNY RENNICK, BLM - TO CUT AND PULL 4-1/2" CSG.** ND BOP. ND TBG HEAD. SPEAR 4-1/2" CSG. REMOVE CSG SLIPS. STACK OUT AND RELEASE SPEAR. REMOVE SEAL ASSEMBLY AND NU TBG HEAD. NU BOP. SPEAR INTO 4-1/2" CSG. RU WIRELINE AND JET CUT CSG AT 3300'. CSG FREE. RD WIRELINE. LD 104 JTS OF 4-1/2" CSG. SWI. SDFN.

12/21/2021 - CK PRESSURES: BH – 46 PSI, CSG – 2 PSI. MU 7" CSG SCRAPER. TIH TO LINER TOP AT 3300'. CIRC WELL. TOO H. RUN CBL FROM 3300' TO SURFACE. PT CSG, TEST FAILED. CIRC ESTABLISHED UP 9-5/8" X 7" ANNULUS. PU 7" PKR. TIH AND ISOLATE CSG LEAKS. LEAK ISOLATED FROM 495'-559' CIRC UP BH. LEAK ISOLATED FROM 1913' – 1947' DROPPED OFF AT 60 PSI/MIN. GOOD TEST FROM 0' – 495' & 1947' – 5204'. TOO H. LD PKR. SWI. SDFN.

12/22/2021 - CK PRESSURES: BH – 0 PSI, CSG – 0 PSI. PU 7" RBP & TIH, SET @ 1890'. TOO H. TIH W/PKR AND SET @ 591'. PT CSG FROM 591' TO 1890', GOOD TEST. RLS PKR & TOO H. TIH LATCH AND RLS RBP, TOO H. SWI. SDFN. **RECEIVED APPROVAL FROM MONICA KUEHLING, NMOCD & KENNY RENNICK, BLM - TO CMT SQZ CASING LEAKS & RUN CBL.**

12/23/2021 - CK PRESSURES: BH – 0 PSI, CSG – 0 PSI. TIH W/TBG TO 1972'. RU CMTERS. MIX & PUMP 32 SX TYPE III CEMENT, 14.6 PPG, 1.37 YIELD. LAY BALANCED PLUG FROM 1972' TO 1780'. TOO H W/TBG. PU 7" PKR & TIH TO 650'. SQZ 3.5 BBLS CMT. LOCK UP @ 600 PSI. RD CMTERS. SWI. SDFWE.

1/4/2022 – CK PRESSURES: BH – 42 PSI, CSG – 0 PSI. RLS & TOO H W/PKR. TIH W/6-1/4" BIT, TAG TOC @ 1870'. RU POWER SWIVEL. D/O CMT FROM 1870' TO 1980'. CIRC CLEAN. TOO H W/BIT. TIH W/PKR, SET

SAN JUAN 29-5 UNIT 68

30.039.20712

BRADENHEAD REPAIR

@ 650'. PT CSG FROM 650' TO 5204' – LEAK @ 10#/MIN. RLS PKR & TIH RESET @ 1881'. PT CSG FROM 1881' to 5204' – LEAK @ 15#/MIN. RLS & TOO H W/PKR. SIW. SEC LOC. SDFN.

1/5/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI. TIH W/TBG TO 1974'. RU CMTERS. MIX & PUMP 51 SXS OF MICRO MATRIX CEMENT @ 13.5 PPG, .76 YIELD, LAY BALANCED PLUG FROM 1974' TO 1804'. TOO H. TIH W/7" PKR, SET @ 650'. SQZ 1.25 BBLS UNTIL LOCK UP @ 600# AFTER 2.5 HRS. EST TOC @ 1835'. RD CMTERS. SIW. SEC LOC. SDFN.

1/6/2022 – WOC.

1/7/2022 – WOC. **RECEIVED APPROVAL FROM MONICA KUEHLING, NMOCD & KENNY RENNICK, BLM - TO CMT SQZ CASING LEAKS & MIT CSG.**

1/8/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 570 PSI. RLS PKR @ 650'. PULL UP & SET, PRESSURE TEST FROM 522' TO 527', CIRCULATED UP BRADENHEAD. PT FROM 0' TO 522' – GOOD TEST. TOO H WITH PACKER. SIW. SEC LOC. SDFN.

1/10/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI. P/U PACKER AND SET AT 334'. CIRCULATE 15 BBLS DOWN TUBING AND UP BRADENHEAD. R/U CMTERS. PUMP 10 BBLS WATER AHEAD. MIX AND PUMP 246 SACKS (60 BBLS) AND CIRCULATE CEMENT TO SURFACE. DISPLACE 4.5 BBLS. SHUT IN AND HESITATE SQUEEZE 1.5 BBLS UNTIL LOCK UP AFTER 3.5 HOURS. R/D CMTERS. SECURE WELL AND LOCATION. SDFN.

1/11/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. RLS PKR & TOO H W/PKR. TIH W/BIT, TAG CMT. PT CSG, GOOD. DRILL OUT CMT FROM 387' TO 527'. CIRC CLEAN. PT CSG FROM 0' TO 527', LEAK OFF @ 15 PSI/MIN. TOO H W/BIT. TIH W/MILL, MILL OUT CR @ 527'. CIRC CLEAN. SIW. SEC LOC. SDFN.

1/12/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. MILL OUT CR @ 527'. CIRC CLEAN. PT CSG TO 560 PSI, LEAK OFF 3-6 PSI/MIN. TIH & TAG TOC @ 1812'. TOO H W/MILL. TIH W/CSG SCRAPER TO 784'. TOO H L/D SCRAPER. TIH W/7" PKR, ISOLATE CSG LEAK @ 518-531', LOST 5-8 PSI/MIN. CIRC DWN CSG & UP TBG W/PKR SET @ 527'. TOO H L/D PKR. SIW. SEC LOC. SDFN.

1/13/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. TIH W/TBG TO 544'. RU CMTERS. MIX AND PUMP 37 SXS OF MICRO MATRIX ULTRA FINE CMT @ 13.5 PPG, .76 YIELD. LAY BALANCED PLUG FROM 445' TO 544'. TOO H W/TBG. REVERSE OUT @ 300'. TIH W/7" PKR, SET @ 203'. HESITATE SQZ EVERY 30 MINS UNTIL LOCK UP @ 600 PSI. TOTAL SQZ OF 1 BBL BRINGING TOC ~470'. RD CMTERS. SIW. SEC LOC. SDFN. WOC.

1/17/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 280 PSI. RLS AND L/D PACKER. TIH W/BIT, TAG TOC @ 465'. DRILL OUT CMT FROM 465' TO 550'. CIRC CLEAN. TIH, TAG CMT @ 1812'. DRILL OUT CEMENT FROM 1812' TO 1833'. CIRC CLEAN. TOO H W/BIT. SEC LOC. SDFN.

1/18/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. TIH W/MILL. DRILL OUT REMAINS OF CMT RETAINER @ 1,833'. DRILL CEMENT FROM 1,833' TO 1,865'. CIRC CLEAN. TOO H, L/D MILL. TIH W/BIT. DRILL OUT CEMENT FROM 1,865' TO 1,929'. CIRC CLEAN. SEC WELL AND LOC. SDFN.

1/19/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. DRILL OUT CEMENT FROM 1929' TO 1980'. CIRC CLEAN. TIH, TO LNR TOP @ 3363'. RU WELLCHECK, **PERFORM MIT ON CSG TO 560 PSI – TEST FAILED, WITNESSED BY JOHN DURHAM (NMOCD) - LOST 1 PSI/MINUTE & DID NOT STABILIZE.**

SAN JUAN 29-5 UNIT 68

30.039.20712

BRADENHEAD REPAIR

TOOH W/TBG & BIT. ROUND TRIP W/CSG SCRAPER TO 700'. TIH W/PKR, ISOLATE CSG LEAK FROM 510' TO 535'. TOOH W/PKR. SEC LOC. SDFN.

1/20/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. TIH, SET PKR @ 534'. PT CSG & PKR TO 580 PSI/30 MIN, LOST 21 PSI IN 30 MIN. PULLED UP TO 520', TEST DOWN CSG @ 580 PSI, LOST ABOUT 1PSI PER MIN, PULL UP TO 460' TEST STILL LOSING PSI. CHANGE OUT RAM RUBBERS, TOOH TO 30' TEST @ 580 PSI LOST 1 PSI/MIN. TIH TO 2,010' SET PKR, TEST @ 580 PSI LOST 2.5 PSI IN 30 MIN. TEST WELLHEAD, AROUND 7" WOULD NOT HOLD PSI, PUMP IN NEW PACKING TEST TOP SEAL @ 3,000 PSI HELD, PUMP IN PACKING AROUND BOTTOM SEAL & TEST @ 1,000 PSI HELD. TOH TO 1,816' TEST DWN TBG @ 580 PSI, LOST 20 PSI IN 19 MIN. TEST DOWN CSG 580 PSI, LOST 35 PSI IN 5 MIN. TOOH TO 416', SET PKR, TEST DWN CSG @ 580 PSI HELD, TOOH L/D PKR. SEC LOC. SDFN.

1/21/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. TIH TO 1972'. MIX & PUMP 40 SXS OF CEMENT 13.5#, 0.94 YEILD (7 BBLS) FROM 1972' TO 1799'. DISPLACE W/6.5 BBLS WTR. REVERSE CIRC 16 BBLS, P/U PKR 10 STANDS & SQZ @ 1000# 0.5 BBL SQZ, END PSI 810#. BLEED OFF PSI & TOOH W/PKR. TIH TO 552'. MIX & PUMP 40 SXS OF CEMENT 13.5#, 0.94 YEILD (5 BBLS) FROM 552' TO 424'. DISPLACE W/1.7 BBLS WTR. PUH & REVERSE CIRC 4 BBLS. P/U PKR 4 STANDS & SQZ @ 1000# 0.25 BBLS SQZ, END PSI 610#. SEC LOC. WOC. SDFN.

1/25/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. RLS AND L/D PKR. PT CSG TO 575# - GOOD TEST. TIH WITH BIT AND TAG TOC AT 477'. DRILL OUT CEMENT FROM 477' TO 552'. CIRC CLEAN. PT CSG TO 575#- LOST 1 PSI/MIN. TIH AND TAG CEMENT AT 1,865'. DRILL OUT CEMENT FROM 1,865' TO 1,980'. TIH W/TBG TO LNR TOP. CIRC CLEAN. SEC LOC. SDFN.

1/26/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. TOOH W/TBG. ROUND TRIP CSG SCRAPER TO 720'. TIH W/PKR & TAG TIGHT SPOT@ 498'. TOOH W/PKR. TIH W/CSG SCRAPER & MILL, DRILL OUT CMT FROM 426' TO 590'. TOOH W/CSG SCRAPER & MILL. TIH W/PKR & ISOLATE CSG LEAKS. GOOD TEST FROM 0' TO 522'. TEST FROM 522' TO 533', LOST 20 PSI/MIN. TEST FROM 533' TO CIBP, LOST 0.5 PSI/MIN. TEST FROM 1816' TO CIBP, LOST 1 PSI/MIN. RLS PKR. SEC LOC. SDFN.

1/27/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. TOOH W/PKR. ROUND TRIP STRING MILL TO 2139'. ROTATE MILL FROM 1851' TO 2043'. TOOH W/MILL. TIH W/RBP & PKR, ISOLATE CSG LEAK FROM 1914' TO 1981'. SET RBP @ 1914'. GOOD TEST FROM 551' TO 1914'. TOOH W/PKR. SEC LOC. SDFN.

1/28/2022 – CK PRESSURES: BH – 0 PSI, CSG – 0 PSI, TBG – 0 PSI. TIH & LATCH RBP @ 1914'. RLS RBP & TOOH W/RBP. TIH W/160 JTS 2-3/8" 4.7# J-55 TBG SET @ 5179'. SN @ 5178'. CIBP REMAINS IN WELL @ 5204'. PBTD @ 7953'. ND BOP. NU WH. RD.

1/31/2022 – RIG RELEASED. **NOTIFIED MONICA KUEHLING, NMOCD & KENNY RENNICK, BLM THAT HEC WILL RIG OFF AND WORK A PLAN WITH AGENCIES.**

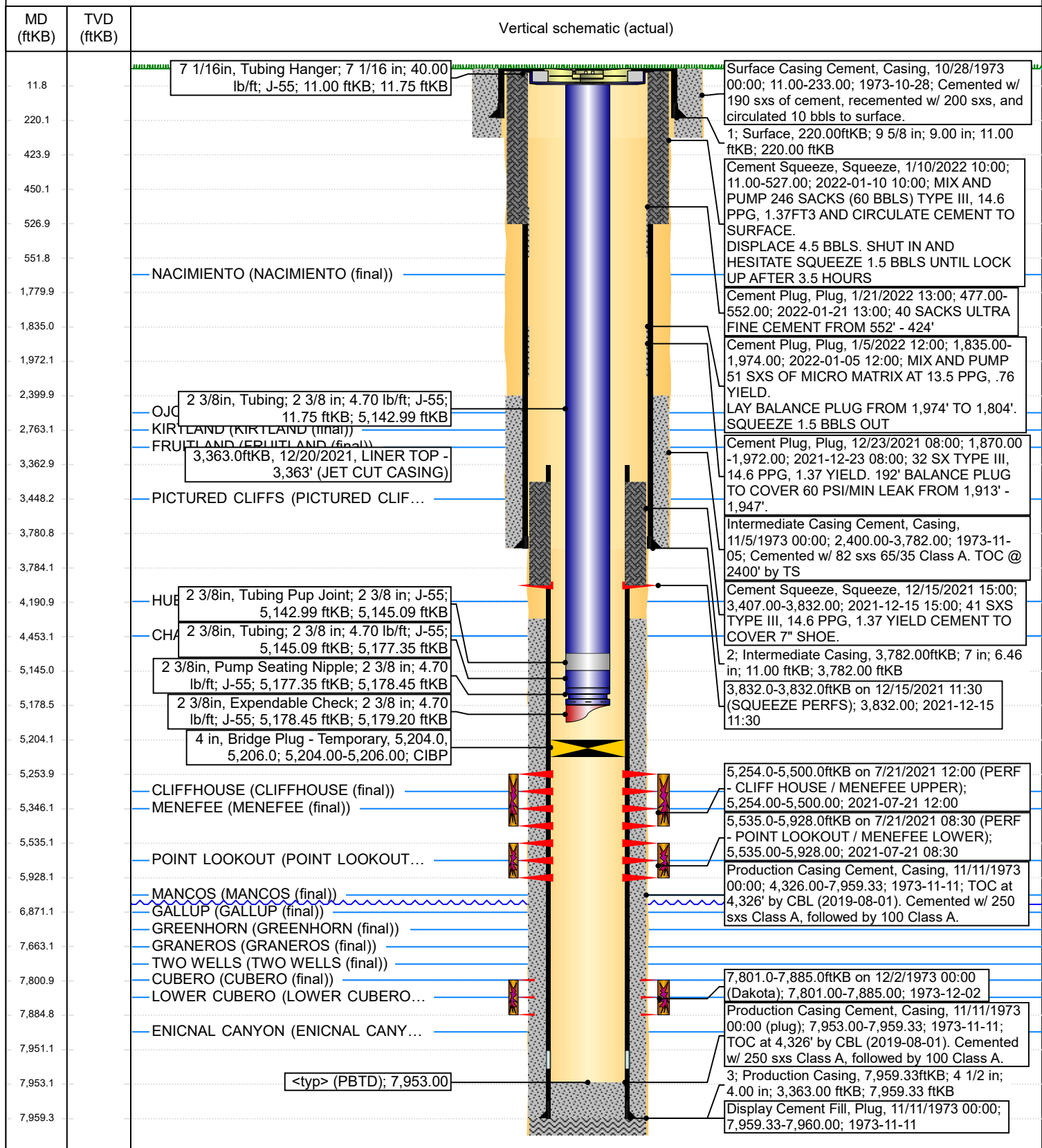


Current Schematic - Version 3

Well Name: SAN JUAN 29-5 UNIT #68

API / UWI 3003920712	Surface Legal Location 018-029N-005W-A	Field Name DK	Route 1208	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 6,500.00	Original KB/RT Elevation (ft) 6,511.00	KB-Ground Distance (ft) 11.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

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 78450

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 78450
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Bradenhead test required within next 30 days from date of this approval February 3, 2023 with NMOCD witness. Full 30 minute test required.	2/3/2023