

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116  Online Phone Directory Visit: <a href="https://www.emnrd.nm.gov/ocd/contact-us/">https://www.emnrd.nm.gov/ocd/contact-us/</a>	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	<b>C-104</b> Revised July 9, 2024  Submit Electronically Via OCD Permitting
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*Released to Imaging: 10/16/2024 1:39:14 PM*

## REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

### Section 1 - Operator and Well Information

Submittal Type: <input type="checkbox"/> Test Allowable (C-104RT) <input type="checkbox"/> New Well (C-104NW) <input checked="" type="checkbox"/> Recomplete (C-104RC) <input type="checkbox"/> Pay Add (C-104RC) <input type="checkbox"/> Amended	
Operator Name: Hilcorp Energy Company	OGRID: 372171
Property Name and Well Number: San Juan 31-6 Unit 42	Property Code: 318839
Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal	API Number: 30-039-22989
Pool Name: Blanco Mesaverde	Pool Code: 72319

### Section 2 – Surface Location

UL B	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	36	31N	06W		790' N	1020' E	36.8611717	-107.411293	Rio Arriba

### Section 3 – Completion Information

Producing Method FLOWING	Ready Date 9/23/2024	Perforations MD 5282' - 6104'	Perforations TVD 5282' - 6104'
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### Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW): 383096	Communitization Agreement <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Surface Casing Action ID: PREVIOUS TO SYSTEM	Unit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 1 Casing Action ID: PREVIOUS TO SYSTEM	Compulsory Pooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 2 Casing Action ID: PREVIOUS TO SYSTEM	Down Hole Commingling: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Order No. PENDING APPROVAL
Production Casing Action ID: PREVIOUS TO SYSTEM	Surface Commingling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
All casing was pressure tested in accordance with NMAC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Non-standard Location: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Common ownership Order No.
Liner 1 Action ID: PREVIOUS TO SYSTEM	Non-standard Proration: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): YES	Simultaneous Dedication: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.

### Section 5 - Operator Signature and Certification

<input checked="" type="checkbox"/> I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name	
Title: Operations Regulatory Tech Sr.	Date 10/14/2024

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116  Online Phone Directory Visit: <a href="https://www.emnrd.nm.gov/ocd/contact-us/">https://www.emnrd.nm.gov/ocd/contact-us/</a>	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	C-105 Revised July 9, 2024  Submit Electronically Via OCD Permitting
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**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

**Section 1 - Operator and Well Information**

Submittal Type: <input type="checkbox"/> New Well <input type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/> Plugback <input checked="" type="checkbox"/> Different Reservoir <input type="checkbox"/> C-144 Closure Attachment <input type="checkbox"/> Other	
Operator Name: Hilcorp Energy Company	OGRID: 372171
Property Name and Well Number: San Juan 31-6 Unit 42	Property Code: 318839
Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal	API Number: 30-039-22989
Pool Name: Blanco Mesaverde	Pool Code: 72319

**Section 2 - Well Location**

	Ul or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	B	36	31N	06W		790'	N	1020'	E	Rio Arriba
BHL	B	36	31N	06W		790'	N	1020'	E	Rio Arriba

**Section 3 - Completion Information**

Date T.D. Reached 3/5/1983	Total Measured Depth of Well 8090'	Acid Volume (bbls) 36	<input type="checkbox"/> Directional Survey Submitted <input type="checkbox"/> Deviation Survey Submitted
Date Rig Released 9/23/2024	Plug-Back Measured Depth 8062'	Completion Fluid Used (bbls) 1,718	Were Logs Ran (Y/N) Yes
Completion Date 9/23/2024	Perforations (MD and TVD) 5282' - 6104'	Completion Proppant Used (lbs) 253,333	List Type of Logs Ran if applicable: CBL

**Section 4 - Action IDs for Submissions and Order Numbers**

Surface Casing Action ID: PREVIOUS TO SYSTEM	UIC Permit/Order (UIC wells only) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 1 Casing Action ID: PREVIOUS TO SYSTEM	NOI Recomplete Action ID (if applicable): 356927
Intermediate 2 Casing Action ID: PREVIOUS TO SYSTEM	NOI Plugback Action ID (if applicable): N/A
Production Casing Action ID: PREVIOUS TO SYSTEM	Cement Squeeze Action ID (if applicable): N/A
Tubing Action ID: PREVIOUS TO SYSTEM	All casing was pressure tested in accordance with NMAC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Liner 1 Action ID: PREVIOUS TO SYSTEM	Casing was installed prior to Action ID system (Y/N): YES

**Section 5 - Test Data**

Date First Production 9/23/2024	Production Method FLOWING	Well Status PRODUCING	Gas - Oil Ratio
Date of Test 9/23/2024	Choke Size 32/64"	Flowing Tubing Pressure 80	Casing Pressure 290
24 hr Oil (bbls) 0	24 hr Gas (MCF) 192	24 hr Water (bbls) 32	Oil Gravity - API
Disposition of Gas: SOLD			

**Section 6 - Pits**

A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.

A Closed Loop System was used.

If an on-site burial was used at the well, report the exact location of the on-site burial:

LAT: \_\_\_\_\_ LONG: \_\_\_\_\_

**Section 7 - Operator Signature and Certification**

I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.

I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Name 

Title Operations Regulatory Tech Sr. Date 10/14/2024

South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo	2666'	2666'	W
T. Yates				T. Kirtland	2883'	2883'	G/W
T. 7 Rivers				T. Fruitland	3371'	3371'	G/W
T. Queen				T. Pictured Cliffs	3694'	3694'	G
T. Grayburg				T. Lewis Shale	3942'	3942'	G
T. San Andres				T. Chacra	4683'	4683'	G
T. Glorieta				T. Cliff House	5213'	5213'	G
T. Yeso				T. Menefee	5601'	5601'	G
T. Paddock				T. Point Lookout	5795'	5795'	G
T. Blinebry				T. Mancos	6248'	6248'	G
T. Tubb				T. Gallup	7094'	7094'	G
T. Drinkard				T. Greenhorn	7806'	7806'	G
T. Abo				T. Graneros	7860'	7860'	G
T. Wolfcamp				T. Dakota	7980'	7980'	G
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T. Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon							
T. Cherry Canyon							
T. Brushy Canyon							
T. Bone Springs							
T. 1st BS Sand							
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							

Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-039-22989
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E-347-26
7. Lease Name or Unit Agreement Name San Juan 31-6 Unit
8. Well Number 42
9. OGRID Number 372171
10. Pool name or Wildcat Blanco Mesaverde

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
HILCORP ENERGY COMPANY

3. Address of Operator  
382 Road 3100, Aztec, NM 87410

4. Well Location  
Unit Letter B : 790' feet from the North line and 1020' feet from the East line  
Section 36 Township 31N Range 06W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
6511' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<p><b>NOTICE OF INTENTION TO:</b></p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/></p> <p>DOWNHOLE COMMINGLE <input type="checkbox"/></p> <p>CLOSED-LOOP SYSTEM <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>	<p><b>SUBSEQUENT REPORT OF:</b></p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/></p> <p>CASING/CEMENT JOB <input type="checkbox"/></p> <p>OTHER: <input checked="" type="checkbox"/> RC Operations</p>
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The following well has been recompleted into the Mesaverde. The Dakota is currently shut-in pending DHC approval. Please see the attached for the recompletion operations.

Spud Date:

Rig Release Date:

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

SIGNATURE  TITLE Operations/Regulatory Technician - Sr. DATE 10/14/2024

Type or print name Amanda Walker E-mail address: mwalker@hilcorp.com PHONE: (346)237-2177

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):



## Well Operations Summary L48

**Well Name: SAN JUAN 31-6 UNIT #42**

<b>API: 3003922989</b>	<b>Field: DK</b>	<b>State: NEW MEXICO</b>
<b>Permit to Drill (PTD) #:</b>	<b>Sundry #:</b>	<b>Rig/Service: RIGLESS 1</b>

**Jobs**

**Actual Start Date: 8/29/2024** **End Date: 9/24/2024**

Report Number	Report Start Date	Report End Date
1	8/29/2024	8/29/2024

Operation

HOLD PJSM. MOB RIG AND EQUIPMENT TO LOCATION FROM SAN JUAN 29-5 UNIT 63. (15.5 MILE MOVE, W/3 M&R TRUCKS). SPOT IN, R/U RIG AND EQUIPMENT.

CHECK PSI ON WELL SITP 105#, SICP 106#, SIICP 0 PSI, BH 0#, BDW 10 MINS.

WORKED ON LOCK DOWN PINS THAT WHERE SEIZED & RUSTED TO WH. ND WH, NU BOP, PRESSURE TEST & FUNCTION TEST BOP, GOOD TEST & RU RIG FLOOR. ATTEMPT TO PULL TBG HANGER BUT SEIZED TO WH. WAIT ON HANGER JACK FROM BIG RED. FINALLY CAME FREE AFTER RUNNING HANGER JACK.

SHUT DOWN DO TO RAIN & LIGHTING CLOSE TO RIG. SISW, DEBRIEF CREW & SDFN.

CREW TRAVEL TO YARD.

Report Number	Report Start Date	Report End Date
2	8/30/2024	8/30/2024

Operation

CREW TRAVEL TO LOCATION.

HOLD PJSM WITH RIG CREW ABOUT OPERATIONS. CHECK PSI ON WELL SITP 90#, SICP 90#, SIICP 0#, BH 4#, BDW 10 MINS.

R/U PREMIER NDT. LD INSPECTING TBG. DOWNGRADED 254 JTS OUT OF 254 DUE TO PITTING AND INTERNAL CORROSION. R/D TBG SCANNERS.

- 0- YELLOW
- 93- BLUE
- 102- GREEN
- 59- RED

WAIT ON REPLACEMENT TBG. TRUCK HAULING TBG HAD ISSUES WITH AIR LINES 5 MILES BEFORE LOCATION & HAD TO WAIT ON PARTS. SPOT IN TBG TRAILER. TALLEY & STRAP TBG. MU 3-7/8" BIT & STRING MILL. PU 146 JTS OF 2.375" TBG TO 4,590'.

SISW, DEBRIEF CREW & SDFN.

CREW TRAVEL TO YARD.

Report Number	Report Start Date	Report End Date
3	9/3/2024	9/3/2024

Operation

CREW TRAVEL TO LOCATION.

HOLD PJSM WITH RIG CREW ABOUT OPERATIONS. CHECK PSI ON WELL SITP 40#, SICP 40#, SIICP 0#, BH 8#, BDW 10 MINS.

FINISH PU 108 JTS OF 2.375" TBG TO 7,975'.

TOOH 126 STDS. LD BIT & STRING MILL. MU 4.5" CIBP. TIH TO 7,932' & TRIED TO **SET CIBP @ 7,932'** BUT NO SUCCESS. HAD ISSUES SETTING. CAME UP THE HOLE TO **7,907' SET CIBP**. STING OUT & LW W/150 BBLs. PT 4.5" CASING TO 600 PSI BUT ONLY GOT TO 450 PSI & DROPPED TO 0 PSI. TRIED TO RE-LOAD WELL BUT NO CIRCULATION TO SURFACE.

SISW, DEBRIEF CREW & SDFN.

CREW TRAVEL TO YARD.

Report Number	Report Start Date	Report End Date
4	9/4/2024	9/4/2024

Operation

CREW TRAVEL TO LOCATION.

HOLD PJSM WITH RIG CREW ABOUT OPERATIONS. CHECK PSI ON WELL SITP 0#, SICP 0#, SIICP 0#, BH 5#, BDW 10 SECS. INTER,PROD & TBG WERE ON A SLIGHT VACCUM WHEN CHECKING PRESSURES.

TRIED TO RE-LOAD WELL W/130 BBLs BUT NO CIRCULATION TO SURFACE. (NOTIFIED ENGINEER) DECIDED TO RUN PACKER TO FIND LEAK POINT.

TOOH 125 STDS OF 2.375" TBG. LD SETTING TOOL.

MU 4.5" PACKER W/UNLOADER. RIH & START CHECKING FOR LEAK OFF. SET @ 321' & TEST TO SURF @ 600 PSI FOR 10 MINS. (GOOD TEST), SET @ 3,994' & TEST TO SURF. (GOOD TEST), SET @ 7873' & TEST TO SURF. (GOOD TEST). TEST UNDER PACKER FROM 7,873' TO 7,907'(CIBP). PUMP 35 BBLs DOWN TBG & SHOWED 500 PSI WHEN PUMPING. TRIED TO TEST BUT WENT TO 0 PSI. (BAD TEST, CIBP NOT HOLDING). SET PACKER @ 7898' & TEST TO SURF. (GOOD TEST). FINALLY TEST TO 2800 PSI FOR 10 MINS. (GOOD TEST).

UNSET PACKER & TOOH 10 STDS.

SISW, DEBRIEF CREW & SDFN.

CREW TRAVEL TO YARD.

Report Number	Report Start Date	Report End Date
5	9/5/2024	9/5/2024

Operation

CREW TRAVEL TO LOCATION.

HOLD PJSM WITH RIG CREW ABOUT OPERATIONS. CHECK PSI ON WELL SITP 0#, SICP 0#, SIICP 0#, BH 5#, BDW 10 SECS. INTER,PROD & TBG WERE ON A SLIGHT VACCUM WHEN CHECKING PRESSURES.

FINISH TOOH W/115 STDS OF 2.375" TBG. LD PACKER. MU 4.5" CIBP (SELECT) & TIH TO 7,897'. SET CIBP. STING OUT LW W/130 BBLs. PT 4.5" CASING TO 620 PSI FOR 30 MINS. (GOOD TEST)

LD 52 JTS OF 2.375" TBG TO 6,285'.

TOOH 100 STDS. LD SETTING TOOL.



## Well Operations Summary L48

**Well Name: SAN JUAN 31-6 UNIT #42**

**API: 3003922989**

**Field: DK**

**State: NEW MEXICO**

**Sundry #:**

**Rig/Service: RIGLESS 1**

Operation

RU BASIN WIRELINE, RUN CBL FROM 7,897' TO SURFACE W/650 PSI ON WELL. POOH & RD WIRELINE.

SISW, DEBRIEF CREW & SDFN.

CREW TRAVEL TO YARD.

Report Number 6	Report Start Date 9/6/2024	Report End Date 9/6/2024
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Operation

CREW TRAVEL TO LOCATION.

HOLD PJSM WITH RIG CREW ABOUT OPERATIONS. CHECK PSI ON WELL SITP 0#, SICP 0#, SIICP 0#, BH 5#, BDW 10 SECS.

MU 4.5" SEMI-COMPOSITE PLUG. TIH 100 STDS OF 2.375" TBG. (WAIT UNTIL AFTER MIT TEST TO SET PLUG)

RU WELLCHECK. START BH TEST & CHARTED MIT TEST. NMOCD REP EILEEN MEDRANO ON LOCATION FOR TEST. (GOOD TEST)

**SET SCBP @ 6,200'**. LD 5 JTS & TOO 96 STDS OF 2.375" TBG.

ND BOP, ND 7" X 3K TBG HEAD. STUB UP 4.5" CASING. NU 7" X 5K TBG HEAD. PT VOID TO 2500 PSI. (GOOD TEST). STAB TBG HANGER & LOCK DOWN PINS. BOLT ON WELLCHECKS 5K TEST FLANGE TO TBG HEAD. PT TO 4000 PSI FOR 30 MINS FROM SEMI-COMPOSITE PLUG (6,200') TO SURFACE. (GOOD TEST) RD WELLCHECK. NU BOP & FUNCTION TEST.

TIH 60 STDS OF 2.375" TBG.

SISW, DEBRIEF CREW & SDFN.

CREW TRAVEL TO YARD.

Report Number 7	Report Start Date 9/7/2024	Report End Date 9/7/2024
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Operation

CREW TRAVEL TO LOCATION.

HOLD PJSM WITH RIG CREW ABOUT OPERATIONS. CHECK PSI ON WELL SITP 0#, SICP 0#, SIICP 0#, BH 5#, BDW 10 SECS.

FINISH TIH W/36 STDS OF 2.375" TBG.

LD 192 JTS OF TBG ONTO TRAILER.

RD RIG FLOOR. ND BOP. INSTALL FBH & NU 4" X 10K FRAC STACK. INSTALL TWC. PT FRAC STACK TO 4500 PSI W/CHART. (GOOD TEST)

Report Number 8	Report Start Date 9/18/2024	Report End Date 9/18/2024
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Operation

MOVE IN AND SPOT GORE N2 SERVICES AND BASIN WELL LOGGING.

R/U BASIN WELL LOGGING. RIH AND CORRELATE TO LOG RAN ON 9-5-2024. **PERFORATE POINT LOOKOUT FROM (5,828' - 6,104') WITH 36 SHOTS, 1 SPF, 0.35" DIA.**

5,828', 5,829', 5,839', 5,840', 5,841', 5,854', 5,855', 5,862', 5,863', 5,877', 5,878', 5,879', 5,886', 5,887', 5,888', 5,896', 5,897', 5,903', 5,904', 5,928', 5,929', 5,930', 5,981', 5,982', 5,983', 6,002', 6,003', 6,015', 6,033', 6,034', 6,084', 6,085', 6,096', 6,097', 6,103', 6,104'. ALL SHOTS FIRED.

RIG UP FRAC AND N2 EQUIPMENT. COOL DOWN N2 PUMPS.

PRIME EQUIPMENT. PRESSURE TEST FLUID LINES TO 4500 PSI. GOOD TEST. PRESSURE TEST N2 LINES TO 5,000 PSI. GOOD TEST.

HELD PRE JOB SAFETY MEETING WITH ALL PERSONAL ON LOCATION.

POINT LOOKOUT STIMULATION: (5,828' - 6,104')

FRAC AT 60 BPM W/ 70Q N2 FOAM.

TOTAL LOAD: 669 BBLS

SLICKWATER: 657 BBLS

TOTAL ACID: 12 BBLS

TOTAL 20/40 SAND: 100,592 LBS

TOTAL N2: 916,000 SCF

AVERAGE RATE: 57.0 BPM

MAX RATE: 66.0 BPM

AVERAGE PRESSURE: 2,242 PSI

MAX PRESSURE: 2,676 PSI

MAX SAND CONC: 4.0 PPG DOWNHOLE.

ISIP: 250 PSI

5 MIN: 0 PSI

**SET COMPOSITE BRIDGE PLUG (SELECT) AT 5,824'. PERFORATE MENEFFEE FROM (5,627' - 5,813') WITH 34 SHOTS, 1 SPF, 0.35" DIA.**

5,627', 5,628', 5,634', 5,635', 5,636', 5,658', 5,659', 5,660', 5,661', 5,662', 5,675', 5,676', 5,707', 5,708', 5,723', 5,724', 5,746', 5,747', 5,748', 5,749', 5,754', 5,755', 5,766', 5,767', 5,770', 5,771', 5,786', 5,787', 5,791', 5,792', 5,804', 5,805', 5,812', 5,813'. ALL SHOTS FIRED. POH.



## Well Operations Summary L48

**Well Name: SAN JUAN 31-6 UNIT #42**

**API: 3003922989**

**Field: DK**

**State: NEW MEXICO**

**Sundry #:**

**Rig/Service: RIGLESS 1**

Operation

MENEFEE STIMULATION: (5,627' - 5,813')

FRAC AT 60 BPM W/ 70Q N2 FOAM.  
 TOTAL LOAD: 540 BBLS  
 SLICKWATER: 528 BBLS  
 TOTAL ACID: 12 BBLS  
 TOTAL 20/40 SAND: 75,526 LBS  
 TOTAL N2: 789,000 SCF  
 AVERAGE RATE: 55.0 BPM  
 MAX RATE: 61.0 BPM  
 AVERAGE PRESSURE: 2,344 PSI  
 MAX PRESSURE: 2,749 PSI  
 MAX SAND CONC: 4.0 PPG DOWNHOLE.  
 ISIP: 239 PSI  
 5 MIN: 54 PSI

**SET COMPOSITE BRIDGE PLUG (SELECT) AT 5,616'. PERFORATE CLIFFHOUSE ZONE FROM (5,282' - 5,598') WITH 33 SHOTS, 1 SPF, 0.35" DIA.**  
 5,282', 5,283', 5,284', 5,295', 5,296', 5,301', 5,302', 5,328', 5,329', 5,416', 5,417', 5,433', 5,434', 5,435', 5,469', 5,470', 5,471', 5,517', 5,518', 5,522', 5,523', 5,524', 5,549', 5,550', 5,551', 5,582', 5,583', 5,588', 5,589', 5,595', 5,596', 5,597', 5,598'. POH. ALL SHOTS FIRED.

CLIFFHOUSE STIMULATION: (5,282' - 5,598')

FRAC AT 60 BPM W/ 70Q N2 FOAM.  
 TOTAL LOAD: 545 BBLS  
 SLICKWATER: 533 BBLS  
 TOTAL ACID: 12 BBLS  
 TOTAL 20/40 SAND: 77,215 LBS  
 TOTAL N2: 770,000 SCF  
 AVERAGE RATE: 54.0 BPM  
 MAX RATE: 61.0 BPM  
 AVERAGE PRESSURE: 2,423 PSI  
 MAX PRESSURE: 3,075 PSI  
 MAX SAND CONC: 4.0 PPG DOWNHOLE.  
 ISIP: 393 PSI  
 5 MIN: 334 PSI

RIH W/WIRELINE AND **SET COMPOSITE BRIDGE PLUG AT 5,000'**. PLUG DID NOT SET. POH AND REPLACE FIRING HEAD. BLEED OFF 4-1/2" CASING.

SHUT IN, SECURE WELL AND LOCATION.

RIG DOWN FRAC AND WIRELINE EQUIPMENT.

Report Number  
9

Report Start Date  
9/19/2024

Report End Date  
9/19/2024

Operation

HOLD PJSM. RIG MOVE. START RIG

MOB RIG AND EQUIPMENT TO LOCATION FROM SAN JUAN 31-6 UNIT 46F. (4 MILE MOVE, W/ HIGH TECH TRUCKS). SPOT IN, R/U RIG AND EQUIPMENT.

R/U GROUND EQUIP. CHECK WELL FOR PRESSURE. 600 PSI ON WELL BLEED DOWN TO 0 PSI.

CHECK WELL FOR PRESSURE. 600 PSI ON WELL BLEED DOWN TO 0 PSI. S/M W / BIG RED TOOL. R/U EQUIP RIH AND SET 4" TWC IN HANGER. N/D FRAC TREE. P/U BOP INSTALL ON WELL CONNECT HYDRAULIC LINES AND FUNCTION TEST.

STRAP AND PREP 2-3/8 TBG. M/U 3-7/8 JUNK MILL. RIH W / TO TO 2500'. START AIR UNIT P/T LINES AND UNLOAD WELL AT 1450 PSI. BLEED OFF PRESSURE RIH W / TBG TO TOP OF CIBP AT 5,000' LAY DOWN 1 JT

SECURE WELL AND LOCATION. DEBRIEF CREW. AND REVIEW PLAN FOR TOMORROW.

CREW TRAVEL HOME

Report Number  
10

Report Start Date  
9/20/2024

Report End Date  
9/20/2024

Operation

HOLD PJSM. CHECK WELL FOR PSI. NO PRESSURE ON WELL.

SPOT IN AND RIG UP POWER SWIVEL.

BREAK CIRC W / AIR AND MIST. UNLOAD WELL AT 1100 PSI ON TBG. START TO **DRLG OUT PLUG @ 5000'**.

1 HR TO DRLG PLUG. RIH W/ 2 JTS. HANG POWR SWIVEL. RIH W/ TBG TO 5428' TAGGED PLUG PARTS AND FILL, R/U POWER SWIVEL

BREAK CIRC W AIR AND MIST C/O WELL BORE TO **CIBP #2 AT 5616' DRLG PLUG** RIH TO 5675' LAY DOWN 2 JTS W / SWIVEL POH ABOVE PERFS TO 5235'

SECURE WELL AND LOCATION DEBRIEF CREW. REVIEW PLAN FOR TOMORROW.

CREW TRAVEL HOME.

Report Number  
11

Report Start Date  
9/21/2024

Report End Date  
9/21/2024

Operation

CREW TRAVEL TO LOCATION.



## Well Operations Summary L48

**Well Name: SAN JUAN 31-6 UNIT #42**

**API: 3003922989**

**Field: DK**

**State: NEW MEXICO**

**Sundry #:**

**Rig/Service: RIGLESS 1**

Operation

HOLD PJSM. CHECK WELL FOR PSI.

SITP: 35 PSI  
 SICP: 375 PSI  
 SIICP: 0 PSI  
 SIBHP: 0 PSI  
 BDW: 10 MIN

RIH W / TBG TO 5760' TBG PLUG PARTS AND FILL, R/U POWER SWIVEL. BREAK CIRC W / AIR AND MISC C/O TO **PLUG #3 AT 5824' DRLG PLUG**. RIH 2 JTS, HANG POWER SWIVEL. RIH W / TBG TAG AT 6015' PLUG PARTS AND FILL C/O TO **CIBP #4 AT 6200'. DRLG PLUG**. RIH TO 6233'.  
 NOTE: HEAVY SAND RETURNS

LAY DOWN 1 JT W / SWIVEL POH ABOVE PERFS TO 5235'

SHUT IN, SECURE WELL AND LOCATION, DEBRIEF CREW

CREW TRAVEL HOME.

Report Number  
12

Report Start Date  
9/22/2024

Report End Date  
9/22/2024

Operation

CREW TRAVEL TO LOCATION.

HOLD PJSM. CHECK WELL FOR PSI. BDW.

SITP: 0 PSI  
 SICP: 350 PSI  
 SIICP: 0 PSI  
 SIBHP: 0 PSI  
 BDW: 10 MI

RIH W / TBG TO 7867' TAG PLUG PARTS AND FILL, R/U POWER SWIVEL. BREAK CIRC W / AIR AND MIST, C/O WELL BORE TO **PLUG #5 AT 7897' CIRC** WELL CLEAN PUMPING 3 BBL SWEEPS. CUT MIST. DRY UP TBG, BLEED OFF AIR.

HANG POWER SWIVEL LAY DOWN 65 JTS ON FLOAT. POH W/ 2-3/8 TBG,

LAY DOWN MILL MAKE UP BHA FOR PROD.

RIH W / TBG W/184 JTS 2 3/8" 4.7# J-55 PROD TBG TO 5839' EOT. M/U HANGER RIH LAND AND LOCK INTO PLACE.

R/D FLOOR, N/D BOP,P /U TREE INSTALL ON WELL

CONNECT PUMP LINE TO TREE PUMP 3 BBL OF WATER. BRING ON AIR P/T TBG TO 500 PSI GOOD TEST PUMP OFF ALUMINUM AT 950 PSI. BLEED OFF AIR, SHUT WELL IN.

RIG DOWN SERVICE UNIT PREP TO MOVE IN AM. DEBRIEF CREW.

CREW TRAVEL HOME

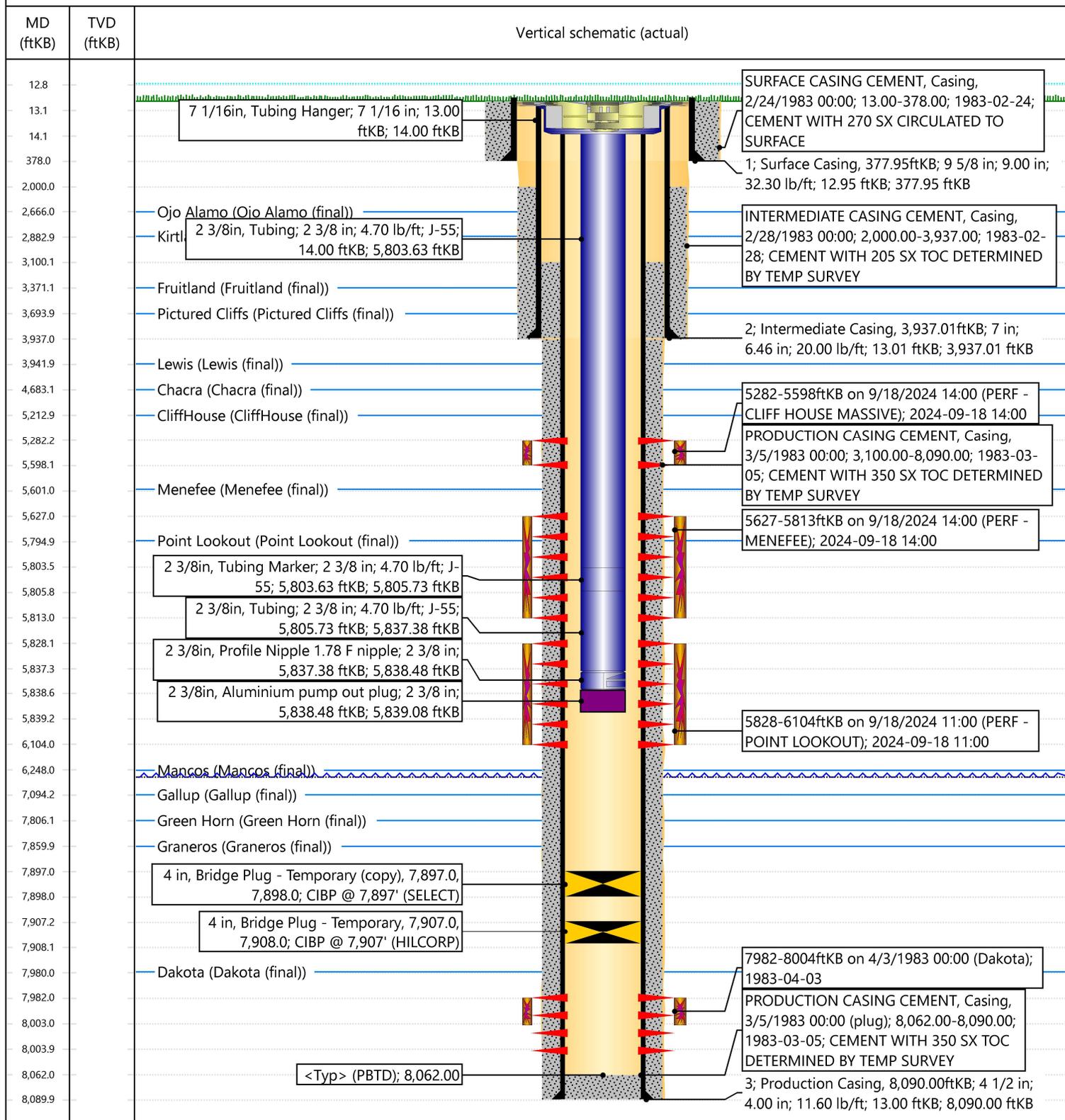


### Current Schematic - Version 3

Well Name: **SAN JUAN 31-6 UNIT #42**

API / UWI 3003922989	Surface Legal Location 036-031N-006W-A	Field Name DK	Route 1105	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 6,511.00	Original KB/RT Elevation (ft) 6,524.00	Tubing Hanger Elevation (ft)	RKB to GL (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
<b>Tubing Strings</b>					
Run Date 8/30/2024 11:00	Set Depth (ftKB) 5,839.08	String Max Nominal OD (in) 2 3/8	String Min Nominal ID (in) 2.00	Weight/Length (lb/ft) 4.70	Original Spud Date 2/23/1983 00:00

### Original Hole [Vertical]



# MECHANICAL INTEGRITY TEST REPORT (TA OR UIC)

Date: September 6, 2024 Operator: Hilcorp Energy Company API # 30-039-22989  
Well # 042 Location: Unit B Sec 36 Twn 31N Rge 06W

State   
Federal \_\_\_\_\_  
Private \_\_\_\_\_  
Indian \_\_\_\_\_

Well Type:

Water Injection \_\_\_\_\_  
Salt Water Disposal \_\_\_\_\_  
Gas Injection \_\_\_\_\_  
Producing Oil/Gas   
Pressure observation \_\_\_\_\_

Abandoned Well (Y/N): \_\_\_\_\_ TA Expires: \_\_\_\_\_

Tbg. SI Pres. \_\_\_\_\_ Max. Inj. Pres. \_\_\_\_\_  
Tbg. Inj. Pres. \_\_\_\_\_

annulus up to 562 psi. for 30 mins. Test passed/failed

Notes: 7897' CBP, 1,000# Spring, last calibration date 8/26/24, Pressured up to  
Pressure dropped to 500psi - held last 10 minutes of test.

Bicaya  
(Operator Representative)

Witness [Signature]  
(NMOCD)

Revised 02-11-02

# BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test September 6, 2024 Operator Hilcorp Energy Company API # 30-039-22989

Property Name San Juan 31-6 Well No. 042 Location: Unit B Section 36 Township 31N Range 06W

Well Status (Shut-In or Producing) Initial PSI: Tubing 0 Intermediate 0 Casing 0 Bradenhead 5

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

### PRESSURE

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

### FLOW CHARACTERISTICS

BRADENHEAD INTERMEDIATE

Steady Flow	
Surges	
Down to Nothing	
Nothing	✓ small vacuum
Gas	
Gas & Water	✓ 43 second GAS blowdown but small water spray
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 0

### REMARKS:

BH: 5 psi Pressure - 43 second gas blowdown with small water spray, 0 psi - 5 min, 0 psi - 10 min, 0 psi - 15 min, 0 psi - 20 min, 0 psi - 25 min, 0 psi - 30 min, 0 psi - after 5 minute shut in. Intermediate: 0 psi - small vacuum when opened, 0 psi - 5 min, 0 psi - 10 min, 0 psi - 15 min, 0 psi - 20 min, 0 psi - 25 min, 0 psi - 30 min

By Bi Cya

Witness Glen Medrano NMUCD

(Position)

E-mail address \_\_\_\_\_



Mandi Walker

---

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>  
Sent: Tuesday, September 17, 2024 10:46 AM  
To: Mandi Walker  
Cc: Amanda Atencio  
Subject: RE: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)  
  
Categories: NMOCD

**CAUTION:** External sender. DO NOT open links or attachments from UNKNOWN senders.

Sorry getting wells mixed up – don't believe there was a repair

Approval is given to continue with recomplete in MV formation through perforations from 5213 to 6207.

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: Kuehling, Monica, EMNRD  
Sent: Tuesday, September 17, 2024 9:36 AM  
To: Mandi Walker <mwalker@hilcorp.com>  
Cc: Amanda Atencio <Amanda.Atencio@hilcorp.com>  
Subject: RE: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

MIT was ran 7897 to surface after repair?

---

From: Mandi Walker <mwalker@hilcorp.com>  
Sent: Tuesday, September 17, 2024 9:23 AM  
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>  
Cc: Amanda Atencio <Amanda.Atencio@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>  
Subject: FW: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

Good morning Monica and welcome back from vacation! We had sent the email below last week while you were out, but we haven't heard back from Gilbert. Amanda reached out to me this morning and let me know that we plan on perforating the well tomorrow morning.

Is there any chance you can review the cbl attached and let us know if we are good to go?

Thank you!

*Mandi Walker*

*SJE/SJN (1,2,7) Regulatory Technician Sr.*

*Office: 346.237.2177*

*[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)*

---

From: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>

Sent: Friday, September 13, 2024 7:48 AM

To: [Gilbert.Cordero@emnrd.nm.gov](mailto:Gilbert.Cordero@emnrd.nm.gov); Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>

Subject: RE: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

Good morning Gilbert, I know we have been bombarding you with emails this week, so I wanted to check in on this one.

Thank you,

*Mandi Walker*

*SJE/SJN (1,2,7) Regulatory Technician Sr.*

*Office: 346.237.2177*

*[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)*

---

From: Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>

Sent: Friday, September 6, 2024 3:08 PM

To: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>; [Gilbert.Cordero@emnrd.nm.gov](mailto:Gilbert.Cordero@emnrd.nm.gov); Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>

Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>

Subject: Re: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

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Well is state minerals. Federal approval not required.

Kenneth (Kenny) Rennick

Petroleum Engineer

Bureau of Land Management

Farmington Field Office

6251 College Blvd

Farmington, NM 87402

Email: [krennick@blm.gov](mailto:krennick@blm.gov)

Mobile & Text: 505.497.0019

---

From: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>  
Sent: Friday, September 6, 2024 1:22 PM  
To: [Gilbert.Cordero@emnrd.nm.gov](mailto:Gilbert.Cordero@emnrd.nm.gov) <[Gilbert.Cordero@emnrd.nm.gov](mailto:Gilbert.Cordero@emnrd.nm.gov)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>;  
Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: FW: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

All,

Please see the attached CBL that was ran during the recomplete wellbore prep for the San Juan 31-6 Unit 42. A MIT was witnessed and passed by OCD on 9/6/2024. Hilcorp is requesting to continue with our recomplete through the NOI approved interval: 5,213' – 6,207'.

Please let me know if you need any additional information.

Thank you,

### Amanda Atencio

Operations Engineer – SJE  
Hilcorp Energy Company  
Office: (346) 237-2160  
Cell: (719) 393-2721

---

From: Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>  
Sent: Thursday, September 5, 2024 7:56 AM  
To: Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>; Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>; Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: RE: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

**CAUTION:** External sender. DO NOT open links or attachments from UNKNOWN senders.

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](mailto:monica.kuehling@emnrd.nm.gov)

---

From: Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>  
Sent: Thursday, September 5, 2024 6:52 AM  
To: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>; Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>;  
Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: Re: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

The BLM finds the proposed procedure appropriate.

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---

From: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>  
Sent: Thursday, September 5, 2024 6:25:36 AM  
To: Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>; Kade,  
Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: [EXTERNAL] San Juan 31-6 Unit 42 (3003922989)

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Good morning, all

We are in the process of wellbore prepping the San Juan 31-6 Unit 42 for a Mesaverde zone add/frac. While attempting to set the Dakota isolation plug, the slips on the plug failed, causing the plug to set 20 feet above the intended depth. The plug is not holding pressure due to the failed elements. Instead of drilling out the failed plug, we propose setting an additional plug just above it. Both plugs will be drilled out post-frac. The current schematic is attached for reference. Please let us know if we may proceed.

- NOI approved plug depth: 7,932'
- Current set depth (1<sup>st</sup> plug): 7,907'
- Proposed set depth (2<sup>nd</sup> plug): +/- 7,897'

Thank you,

**Amanda Atencio**

Operations Engineer – SJE  
Hilcorp Energy Company  
Office: (346) 237-2160  
Cell: (719) 393-2721

**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**

ACKNOWLEDGMENTS

Action 392361

**ACKNOWLEDGMENTS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 392361
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
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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 392361

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 392361
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

**CONDITIONS**

Created By	Condition	Condition Date
smcgrath	None	10/16/2024