

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

Well Name: SAN JUAN 28-7 UNIT	Well Location: T27N / R7W / SEC 7 / NWNW / 36.592789 / -107.620697	County or Parish/State: RIO ARRIBA / NM
Well Number: 38	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078835A	Unit or CA Name: SAN JUAN 28-7 UNIT--PC	Unit or CA Number: NMNM78413B
US Well Number: 3003907144	Operator: HILCORP ENERGY COMPANY	

Notice of Intent

Sundry ID: 2786707

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 04/24/2024

Time Sundry Submitted: 11:09

Date proposed operation will begin: 04/24/2024

Procedure Description: Hilcorp Energy Company received verbal approvals from Kenny Rennick, BLM and Monica Kuehling, NMOCD to P&A the subject well per the attached procedures, current and proposed wellbore schematics. A closed loop system will be used. Hilcorp has a BLM FFO Surface Site Visit scheduled with Roger Herrera on 5/1/2024.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

San_Juan_28_7_Unit__38_CBL_20240424110814.pdf

2024_04_24__SAN_JUAN_28_7_UNIT_38__P_A_NOI_Verbal_Approvals_20240424110802.pdf

2024_04_24__SAN_JUAN_28_7_UNIT_38__P_A_NOI_20240424110450.pdf

Well Name: SAN JUAN 28-7 UNIT

Well Location: T27N / R7W / SEC 7 /
NWNW / 36.592789 / -107.620697

County or Parish/State: RIO
ARRIBA / NM

Well Number: 38

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMSF078835A

Unit or CA Name: SAN JUAN 28-7
UNIT--PC

Unit or CA Number:
NMNM78413B

US Well Number: 3003907144

Operator: HILCORP ENERGY
COMPANY

Conditions of Approval

Additional

General_Requirement_PxA_20240424131329.pdf

2786707_NOIA_38_3003907144_KR_04242024_20240424131318.pdf

San_Juan_28_7_Geo_WG_KR_Edited_20240424131312.pdf

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: TAMMY JONES

Signed on: APR 24, 2024 11:09 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 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: Approved

Disposition Date: 04/24/2024

Signature: Kenneth Rennick



HILCORP ENERGY COMPANY
SAN JUAN 28-7 UNIT 38
P&A NOI

API #: 3003907144

JOB PROCEDURES

1. Contact NMOCD and BLM (where applicable) 24 hours prior to MIRU.
2. Hold pre-job safety meeting. Verify cathodic is off. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.
3. MIRU service rig and associated equipment; NU and test BOP.
4. *Note the following plugs are based on the **CBL run 4/23/2024**:
5. PU & TIH w/ work string and sting into 5-1/2" CICR @ +/- 3,261'.
6. **PLUG #1: 45sx of Class G Cement (15.8 PPG, 1.15 yield); PC Top @ 3,313' | FRD Top @ 3,084'**:
 Pump 12sx of cement beneath the 5-1/2" CICR inside both the 5-1/2" casing (est. **TOC @ +/- 3,261'** & est. **BOC @ +/- 3,311'**) and into the 4-3/4" open hole (est. **TOC @ +/- 3,311'** & est. **BOC @ +/- 3,363'**). Sting out of the retainer, continue pumping a 33 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 2,984'** & est. **BOC @ +/- 3,261'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
7. TOOH w/ work string. TIH and perforate squeeze holes @ +/- 2,470'. TIH with work string establish circulation.
8. TIH with work string to +/- 2,625'. Establish circulation.
9. **PLUG #2: 63sx of Class G Cement (15.8 PPG, 1.15 yield); KRD Top @ 2,575' | OJO Top @ 2,470'**:
 Pump a 63 sack balanced cement plug inside the 5-1/2" casing. Displace 33sx cement with 6.8 bbls water through squeeze holes @ 2,470' into the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 2,320'** & est. **BOC @ +/- 2,470'**). This will leave a 30 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 2,370'** & est. **BOC @ +/- 2,625'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
10. TIH & perforate squeeze holes @ +/- 1,348'. RIH w/ 5-1/2" CICR and set CICR @ +/- 1,298'. TIH w/ work string & sting into CICR. Establish injection.
11. **PLUG #3: 62sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 1,298'**:
 Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 1,148'** & est. **BOC @ +/- 1,348'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 1,298'** & est. **BOC @ +/- 1,348'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 1,198'** & est. **BOC @ +/- 1,298'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
12. TOOH w/ work string. TIH & perforate squeeze holes @ +/- 183'. Establish circulation.
13. **PLUG #4: 70sx of Class G Cement (15.8 PPG, 1.15 yield); Surf. Casing Shoe @ 133'**:
 Pump 11sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 133'** & est. **BOC @ +/- 183'**). Continue pumping 37sx of cement in the 5-1/2" casing X 9-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 133'**). Pump a 22 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 183'**). WOC for 4 hrs, tag TOC w/ work string.
14. ND BOP, cut off casing below casing flange. Top off cement in surface casing annulus, if needed. Install a P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location.



HILCORP ENERGY COMPANY
SAN JUAN 28-7 UNIT 38
P&A NOI

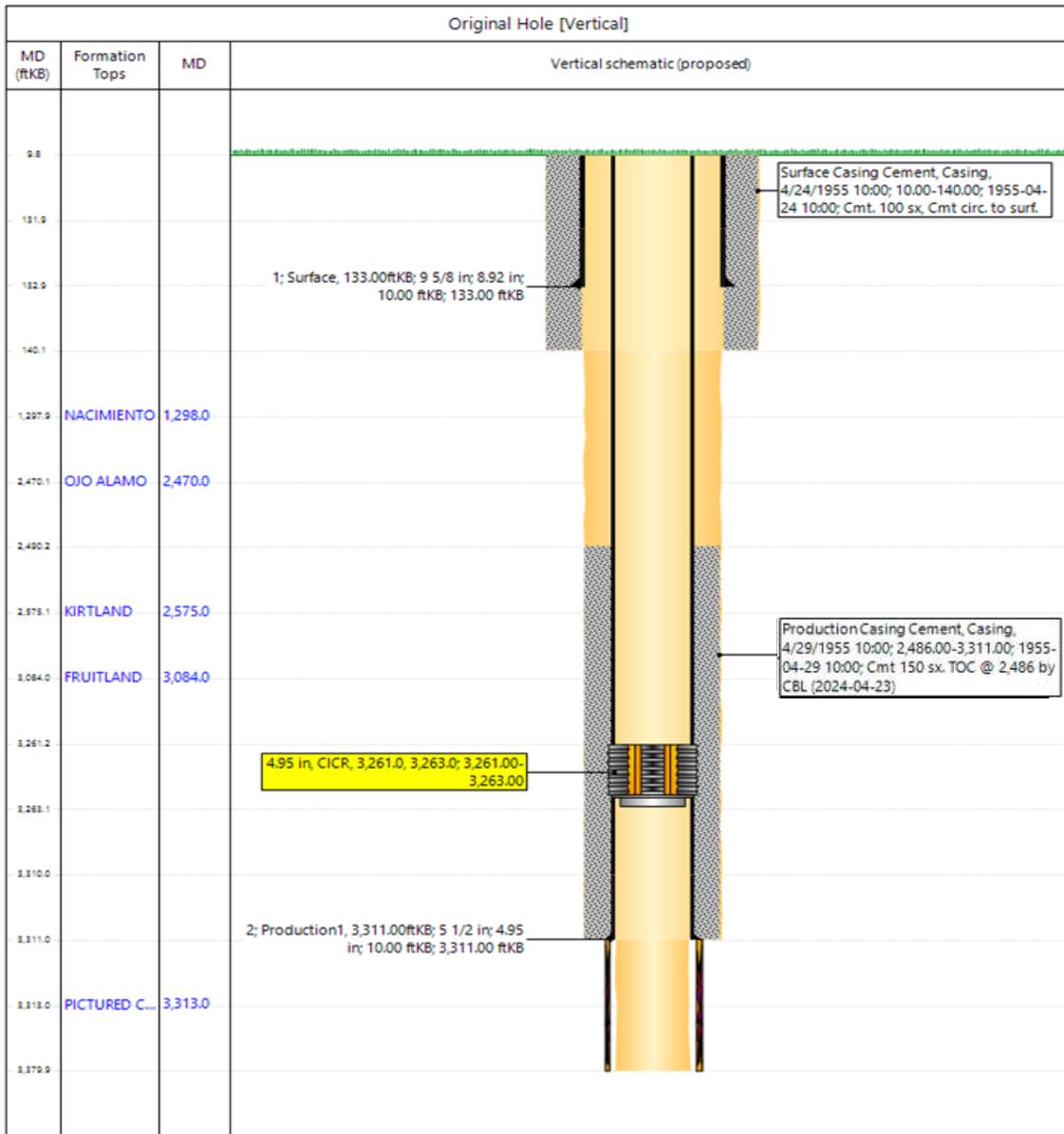
SAN JUAN 28-7 UNIT 38 - CURRENT WELLBORE SCHEMATIC



P&A WBD - Current Schematic

Well Name: **SAN JUAN 28-7 UNIT #38**

API / UWI 3003907144	Surface Legal Location 007-027N-007W-D	Field Name PC	Route 0901	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 6,893.00	Original KB-RT Elevation (ft) 6,893.00	Tubing Hanger Elevation (ft) 6,893.00	KB to GL (ft) 10.00	KB-Casing Flange Distance (ft) 10.00	KB-Tubing Hanger Distance (ft) 10.00





HILCORP ENERGY COMPANY
SAN JUAN 28-7 UNIT 38
P&A NOI

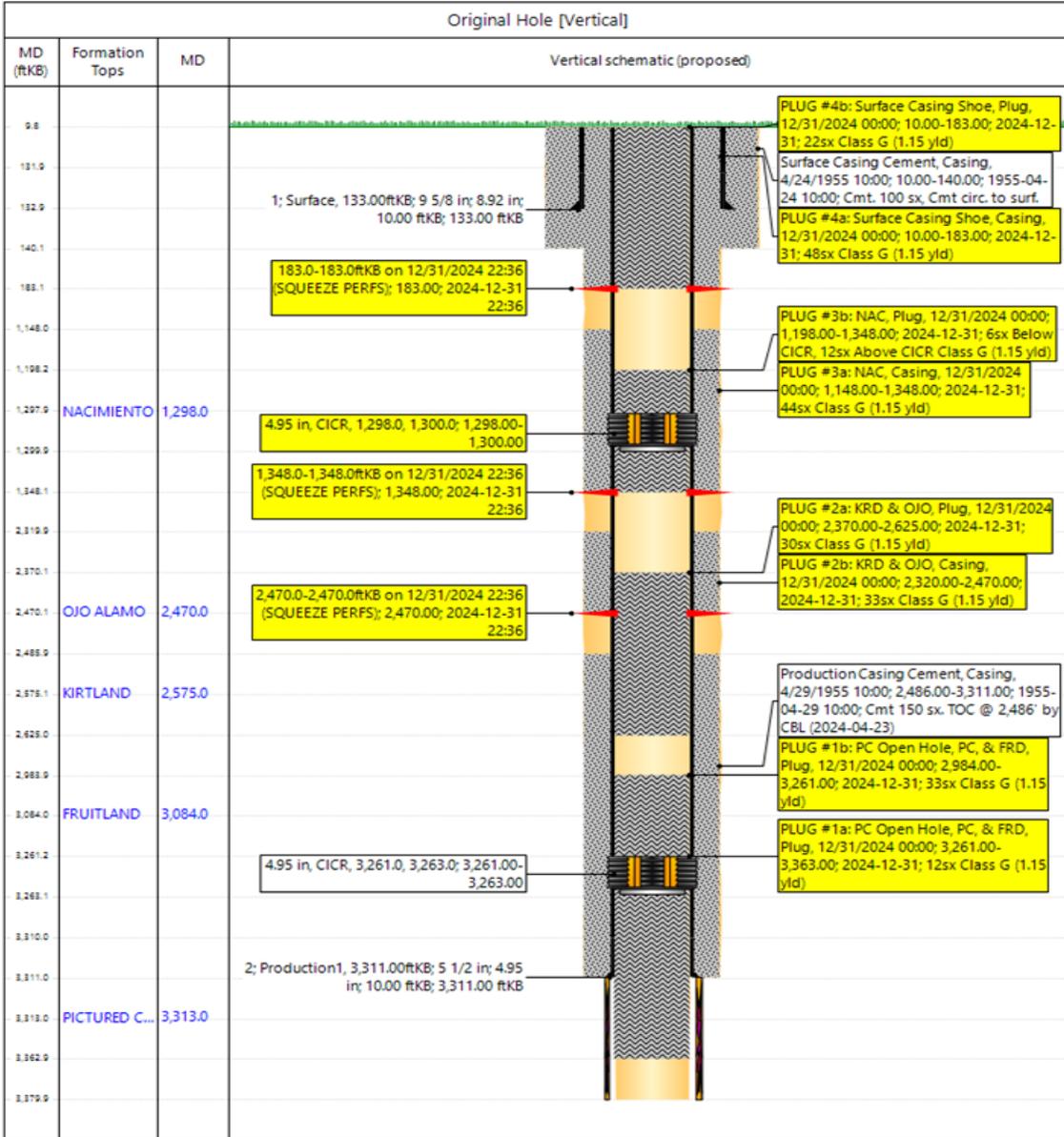
SAN JUAN 28-7 UNIT 38 - PROPOSED WELLBORE SCHEMATIC



P&A WBD - Proposed Schematic

Well Name: **SAN JUAN 28-7 UNIT #38**

API / UWI 3003907144	Surface Legal Location 007-027N-007W-D	Field Name PC	Route 0901	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 6,893.00	Original KBRT Elevation (ft) 6,903.00	Tubing Hanger Elevation (ft) 6,893.00	KB to GL (ft) 10.00	KB-Casing Flange Distance (ft) 10.00	KB-Tubing Hanger Distance (ft) 10.00



Tammy Jones

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Wednesday, April 24, 2024 1:36 PM
To: Tammy Jones; John LaMond; Kuehling, Monica, EMNRD
Cc: Kade, Matthew H; Farmington Regulatory Techs; James Osborn; Ben Hampton; Clay Padgett; Lee Murphy; Rustin Mikeska; Decker, Mark A; Brice Clyde - (C); Weatherford, Wanda D
Subject: Re: [EXTERNAL] CBL Submission & P&A Request for Hilcorp's SAN JUAN 28-7 UNIT 38 (API # 3003907144)

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

The BLM has approved the NOI to abandoned submission. Note the BLM geologist determined that Ojo Alamo top is higher than operator's pick at 2380.

The BLM request that the Plug 2 TOC (the plug that covers the Kirtland - Ojo Alamo) be raised to 2280.

This has already been communicated to the BLM inspector on location.

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: Tammy Jones <tajones@hilcorp.com>
Sent: Wednesday, April 24, 2024 11:43 AM
To: Rennick, Kenneth G <krennick@blm.gov>; John LaMond <jlamond@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrn.nm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; James Osborn <josborn@hilcorp.com>; Ben Hampton <bhampton@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Decker, Mark A <mdecker@blm.gov>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>
Subject: RE: [EXTERNAL] CBL Submission & P&A Request for Hilcorp's SAN JUAN 28-7 UNIT 38 (API # 3003907144)

Hi Kenny,

The P&A NOI has been submitted to BLM AFMSS Sundry ID: **2786707**.

Thanks,

Tammy Jones | **HILCORP ENERGY COMPANY** | San Juan Regulatory | 505.324.5185 | tajones@hilcorp.com

From: Rennick, Kenneth G <krennick@blm.gov>

Sent: Wednesday, April 24, 2024 9:44 AM

To: John LaMond <jlamond@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Kade, Matthew H <mkade@blm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; James Osborn <josborn@hilcorp.com>; Ben Hampton <bhampton@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Decker, Mark A <mdecker@blm.gov>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>

Subject: Re: [EXTERNAL] CBL Submission & P&A Request for Hilcorp's SAN JUAN 28-7 UNIT 38 (API # 3003907144)

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

To confirm the BLM finds the updated procedure 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: John LaMond <jlamond@hilcorp.com>

Sent: Wednesday, April 24, 2024 9:35 AM

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

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; James Osborn <josborn@hilcorp.com>; Ben Hampton <bhampton@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Decker, Mark A <mdecker@blm.gov>; John LaMond <jlamond@hilcorp.com>; Brice Clyde - (C) <Brice.Clyde@hilcorp.com>

Subject: RE: [EXTERNAL] CBL Submission & P&A Request for Hilcorp's SAN JUAN 28-7 UNIT 38 (API # 3003907144)

Good morning Monica and Kenny,

After discussion, Hilcorp received verbal approval to adjust the KRD/OJO plug to a combined plug. Please see the updated procedure & schematic attached.

API #: 3003907144

JOB PROCEDURES

1. Contact NMOCD and BLM (where applicable) 24 hours prior to MIRU.
2. Hold pre-job safety meeting. Verify cathodic is off. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.
3. MIRU service rig and associated equipment; NU and test BOP.
4. *Note the following plugs are based on the **CBL run 4/23/2024**:
5. PU & TIH w/ work string and sting into 5-1/2" CICR @ +/- 3,261'.
6. **PLUG #1: 45sx of Class G Cement (15.8 PPG, 1.15 yield); PC Top @ 3,313' | FRD Top @ 3,084'**
Pump 12sx of cement beneath the 5-1/2" CICR inside both the 5-1/2" casing (est. **TOC @ +/- 3,261'** & est. **BOC @ +/- 3,311'**) and into the 4-3/4" open hole (e **TOC @ +/- 3,311'** & est. **BOC @ +/- 3,363'**). Sting out of the retainer, continue pumping a 33 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 2,984'** & est. **BOC @ +/- 3,261'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
7. TOOH w/ work string. TIH and perforate squeeze holes @ +/- 2,470'. TIH with work string establish circulation.
8. TIH with work string to +/- 2,625'. Establish circulation.
9. **PLUG #2: 63sx of Class G Cement (15.8 PPG, 1.15 yield); KRD Top @ 2,575' | OJO Top @ 2,470'**
Pump a 63 sack balanced cement plug inside the 5-1/2" casing. Displace 33sx cement with 6.8 bbls water through squeeze holes @ 2,470' into the 5-1/2" casing 8-3/4" open hole annulus (est. **TOC @ +/- 2,320'** & est. **BOC @ +/- 2,470'**). This will leave a 30 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ 2,370'** & est. **BOC @ +/- 2,625'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
10. TIH & perforate squeeze holes @ +/- 1,348'. RIH w/ 5-1/2" CICR and set CICR @ +/- 1,298'. TIH w/ work string & sting into CICR. Establish injection.
11. **PLUG #3: 62sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 1,298'**
Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 1,148'** & est. **BOC @ +/- 1,348'**). Pump an additional 6sx of cement ber the 5-1/2" CICR (est. **TOC @ +/- 1,298'** & est. **BOC @ +/- 1,348'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ 1,198'** & est. **BOC @ +/- 1,298'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
12. TOOH w/ work string. TIH & perforate squeeze holes @ +/- 183'. Establish circulation.
13. **PLUG #4: 70sx of Class G Cement (15.8 PPG, 1.15 yield); Surf. Casing Shoe @ 133'**
Pump 11sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 133'** & est. **BOC @ +/- 183'**). Continue pumping 37sx of cement in the 5 casing X 9-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 133'**). Pump a 22 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 0'** est. **BOC @ +/- 183'**). WOC for 4 hrs, tag TOC w/ work string.
14. ND BOP, cut off casing below casing flange. Top off cement in surface casing annulus, if needed. Install a P&A marker with cement to comply with regulations. down, move off location, cut off anchors, and restore location.

Please let me know if you have any concerns.

Thanks,

John LaMond

Operations Engineer – Technical Services

Hilcorp Energy Company

1111 Travis

Houston, TX 77002

346-237-2210 (Office)

832-754-9692 (Cell)

ilamond@hilcorp.com

From: Rennick, Kenneth G <krennick@blm.gov>

Sent: Wednesday, April 24, 2024 9:48 AM

To: John LaMond <ilamond@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Kade, Matthew H <mkade@blm.gov>

Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; James Osborn <josborn@hilcorp.com>; Ben Hampton <bhampton@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Decker, Mark A <mdecker@blm.gov>

Subject: Re: [EXTERNAL] CBL Submission & P&A Request for Hilcorp's SAN JUAN 28-7 UNIT 38 (API # 3003907144)

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

The BLM finds the plugging procedure and formation tops appropriate. Please submit the procedure in AFMSS as soon as possible.

Kenny Rennick

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: John LaMond <jlamond@hilcorp.com>
Sent: Wednesday, April 24, 2024 7:47 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Farmington Regulatory Techs <FarmingtonRegulatoryTechs@hilcorp.com>; James Osborn <josborn@hilcorp.com>; Ben Hampton <bhampton@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; John LaMond <jlamond@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>
Subject: [EXTERNAL] CBL Submission & P&A Request for Hilcorp's SAN JUAN 28-7 UNIT 38 (API # 3003907144)

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

Good morning Monica and Kenny,

Hilcorp moved onto the **SAN JUAN 28-7 UNIT 38 (API # 3003907144)** yesterday to begin TA operations. I have attached the approved NOI for reference.

Attached is the CBL that was run yesterday (4/23/2024). The CBL shows TOC @ ~2,486'. Additionally, a pressure test was performed to 560 psi which failed.

Based on the results of the CBL and the failed pressure test, Hilcorp requests to move forward with plugging and abandonment of the SAN JUAN 28-7 UNIT 38.

I have attached an updated P&A procedure as well as an updated proposed P&A wellbore schematic.

Do we have approval from the NMOCD & BLM to move forward with the P&A operations?



HILCORP ENERGY COMPANY
SAN JUAN 28-7 UNIT 38
P&A NOI

API #:	3003907144
--------	------------

JOB PROCEDURES

1. Contact NMOCD and BLM (where applicable) 24 hours prior to MIRU.
2. Hold pre-job safety meeting. Verify cathodic is off. Comply with all NMOCD, BLM, and HEC safety and environmental regulations.
3. MIRU service rig and associated equipment; NU and test BOP.
4. *Note the following plugs are based on the **CBL run 4/23/2024**:
5. PU & TIH w/ work string and sting into 5-1/2" CICR @ +/- 3,261'.
6. **PLUG #1: 45sx of Class G Cement (15.8 PPG, 1.15 yield); PC Top @ 3,313' | FRD Top @ 3,084'**
 Pump 12sx of cement beneath the 5-1/2" CICR inside both the 5-1/2" casing (est. **TOC @ +/- 3,261'** & est. **BOC @ +/- 3,311'**) and into the 4-3/4" open hole (est. **TOC @ +/- 3,311'** & est. **BOC @ +/- 3,363'**). Sting out of the retainer, continue pumping a 33 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 2,984'** & est. **BOC @ +/- 3,261'**). Wait on Cement for 4 hours, tag TOC w/ work string. *Note cement plug lengths & volumes account for excess.
7. POOH w/ work string to +/- 2,625'.
8. **PLUG #2: 18sx of Class G Cement (15.8 PPG, 1.15 yield); KRD Top @ 2,575'**
 Pump an 18 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 2,475'** & est. **BOC @ +/- 2,625'**). *Note cement plug lengths & volumes account for excess.
9. POOH w/ work string to +/- 2,475'. Reverse circulate.
10. TOOH w/ work string. TIH and perforate squeeze holes @ +/- 2,470'. RIH w/ 5-1/2" CICR and set CICR @ +/- 2,420'. TIH with work string, sting into CICR, establish injection. *NOTE if cement tag is higher than 2,470', attempt perforate @ 2,460' & set CICR @ 2,410'.
11. **PLUG #3: 62sx of Class G Cement (15.8 PPG, 1.15 yield); OJO Top @ 2,470'**
 Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 2,270'** & est. **BOC @ +/- 2,470'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 2,420'** & est. **BOC @ +/- 2,470'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 2,320'** & est. **BOC @ +/- 2,420'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
12. TIH & perforate squeeze holes @ +/- 1,348'. RIH w/ 5-1/2" CICR and set CICR @ +/- 1,298'. TIH w/ work string & sting into CICR. Establish injection.
13. **PLUG #4: 62sx of Class G Cement (15.8 PPG, 1.15 yield); NAC Top @ 1,298'**
 Pump 44sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 1,148'** & est. **BOC @ +/- 1,348'**). Pump an additional 6sx of cement beneath the 5-1/2" CICR (est. **TOC @ +/- 1,298'** & est. **BOC @ +/- 1,348'**). Sting out of retainer, pump a 12 sack balanced cement plug on top of the CICR. (est. **TOC @ +/- 1,198'** & est. **BOC @ +/- 1,298'**). WOC for 4 hrs, tag TOC w/ work string. *Note cement plug lengths and volumes account for excess.
14. TOOH w/ work string. TIH & perforate squeeze holes @ +/- 183'. Establish circulation.
15. **PLUG #5: 70sx of Class G Cement (15.8 PPG, 1.15 yield); Surf. Casing Shoe @ 133'**
 Pump 11sx of cement in the 5-1/2" casing X 8-3/4" open hole annulus (est. **TOC @ +/- 133'** & est. **BOC @ +/- 183'**). Continue pumping 37sx of cement in the 5-1/2" casing X 9-5/8" casing annulus (est. **TOC @ +/- 0'** & est. **BOC @ +/- 133'**). Pump a 22 sack balanced cement plug inside the 5-1/2" casing (est. **TOC @ +/- 0'** & est. **BOC @ +/- 183'**). WOC for 4 hrs, tag TOC w/ work string.
16. ND BOP, cut off casing below casing flange. Top off cement in surface casing annulus, if needed. Install a P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location.

Please let me know if you have any questions or concerns with this plan.

Thanks,

John LaMond

Operations Engineer – Technical Services
 Hilcorp Energy Company

**GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON FIELD OFFICE**

- 1.0 The approved plugging plans may contain variances from the following minimum general requirements.
- 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
- 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
- 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
- 4.1 The cement shall be as specified in the approved plugging plan.
- 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
- 4.3 Surface plugs may be no less than 50' in length.
- 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
- 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
- 4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. **If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.**

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

BLM - FFO - Geologic Report

Date Completed 4/24/2024

Well No. San Juan 28-7 Unit No 38 Surf. Loc. 1000 FNL 990 FWL
 Sec 7 T27N R7W
 Lease No. NMSF 078835A
 Agrmt No NMNM78413B
 Operator Hilcorp Energy Co County Rio Arriba State New Mexico
 TVD 3380 PBTD 3380 Formation Blanco South: Pictured Cliffs
 Elevation GL 6891 Elevation Est. DF 6895

Geologic Formations	Est. tops	Subsea Elev.	Remarks
San Jose Fm.	Surface		
Nacimiento Fm.	1210	5685	Surface /fresh water sands
Ojo Alamo Ss	2380	4515	Fresh water aquifer
Kirtland Fm.	2523	4372	
Fruitland Fm.	2835	4060	Coal/gas/possible water
Pictured Cliffs	3045	3850	Possible gas/water
Lewis Shale (Main)	3155	3740	Source rock

Remarks:

Reference Well:

-Vertical wellbore, all formation depths are TVD from DF at the wellhead.
 -Move the Plug 1 TOC to 2830' to account for the BLM geologist's pick for the Fruitland top. -- **Work already completed. Work done covers the pay zone of PC/ Fruitland. Kenneth Rennick PE FFO 04/24/2024**
 -Move the Plug 3 TOC to 1965' to account for the BLM geologist's pick for the Ojo Alamo top. -- **Change to 2280. 1965 is an error. Updated procedure has the plug being number 2, not 3. Kenneth Rennick BLM PE FFO 04/24/2024**

Same

Prepared by: Walter Gage

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402**

AFMSS 2 Sundry ID 2786707

Attachment to notice of Intention to Abandon

Well: San Juan 28-7 Unit 38

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. The following modifications to your plugging program are to be made:
 - a. Move the Plug 2 TOC to 2280' to account for the BLM geologist's pick for the Ojo Alamo top.
3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 04/24/2024

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 337279

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 337279
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	NMOCD call on tops is PC 3313 Fruitland 3084 (these are already covered if tagged 50 feet or more above 3084 -Kirtland 2575 NMOCD agrees with BLM call on OJO at 2380 and Nacimiento at 1210 - Rig is already on site so notifying is not required - Log has already been ran - Monitor string pressures daily report on subsequent	4/24/2024
mkuehling	Make sure all email chains included in subsequent	4/24/2024