

<b>Well Name:</b> CAIN	<b>Well Location:</b> T28N / R10W / SEC 15 / SWSW / 36.657394 / -107.887787	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 10	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMSF080781	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 300450742800S1	<b>Well Status:</b> Abandoned	<b>Operator:</b> HILCORP ENERGY COMPANY

### Subsequent Report

**Sundry ID:** 2735905

**Type of Submission:** Subsequent Report

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 06/15/2023

**Time Sundry Submitted:** 07:01

**Date Operation Actually Began:** 05/30/2023

**Actual Procedure:** The following well has been P&A'd as of 6/8/2023. Please see the attached plugging operations.

### SR Attachments

#### Actual Procedure

Cain\_10\_P\_A\_SR\_20230615070051.pdf

**Well Name:** CAIN

**Well Location:** T28N / R10W / SEC 15 /  
SWSW / 36.657394 / -107.887787

**County or Parish/State:** SAN  
JUAN / NM

**Well Number:** 10

**Type of Well:** CONVENTIONAL GAS  
WELL

**Allottee or Tribe Name:**

**Lease Number:** NMSF080781

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 300450742800S1

**Well Status:** Abandoned

**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:** CHERYLENE WESTON

**Signed on:** JUN 15, 2023 07:00 AM

**Name:** HILCORP ENERGY COMPANY

**Title:** Operations/Regulatory Tech - Sr

**Street Address:** 1111 TRAVIS STREET

**City:** HOUSTON

**State:** TX

**Phone:** (713) 289-2615

**Email address:** cweston@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:** 06/15/2023

**Signature:** Kenneth Rennick

Cain 10  
3004507428  
NMSF080781  
SR P&A

5/30/2023 MIRU. HOLD PJSM. CHECK PSI SITP-20 PSI, SICP-20 PSI, SIICP-0 PSI, BH-0 PSI. BDW. ND WH, NU BOP, FUNCTION TEST. RU FLOOR, PULL TBG HANGER, 34K SW, STING OUT OF PACKER. LD 200 JTS 2-3/8" TBG. MU 3-7/8" BIT & 4.5" SCRAPER. STRAP, DRIFT, & PU 201 JTS 2-3/8" 4.7# TBG TO 6,354'. SISW, SDFN.

5/31/2023: CHECK PSI SITP-0 PSI, SICP-40 PSI, BH-0 PSI. LW 2 BBL, CIRC 105 BBL. TOO H, 98 STDS. LW 2 BBL. EST RATE 1.5 BPM @ 400#. RIH, SET 4.5" CIRC @ 5,885'. LW 4.5 BBL. PUMP 1.5 BBL 800# HOLDING. LW 4.5 BBL. CIRC 6 BBL, PSI UP 600#, FELL OFF TO 400# IN 30 SEC. TOO H 98 STDS. SISW, SDFN.

6/1/2023: CHECK PSI SITP-0 PSI, SICP-40 PSI, BH-0 PSI. TIH W/MILL. BREAK CIRC. TAG CIBP #1, DRILL CIBP 5,885' TO 5,887'. TIH TAG @ 6,189'. PU POWER SWIVEL, DRILL CIBP 6,189' TO 6,190', FELL THROUGH. PU SWIVEL, TAG @ 6,307'. BREAK CIRC, DRILL CIBP 6,307' TO 6,311', (PACKER), FELL THROUGH. CO TO 6,370'. LD 1 JT, SISW, SDFN.

6/2/2023: CHECK PSI SITP-0 PSI, SICP-160 PSI, BH-0 PSI. BDW, PU TBG TO 6,410', LD 2 JTS, TOO H 101 STDS. MU & SET 2-3/8" CIBP @ 6,400'. LW 90 BBL. CIRC 130 BBL. PT CASING 500# (BAD TEST). VERBAL APPROVAL TO SET CIBP @ 6,400' & PUMP ABOVE BY NMOC/D/GILBERT CORDERO & BLM/MONTY GOMEZ. CEMENT #1 PLUG (DAKOTA) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX. BOC @ 6,400'. TOC @ 6,200'. DISPLACE 23.9 BBL, LD 8 JTS. TOO H 98 STDS. LW 14 BBL. RU WL, RUN CBL 6,150' TO SURFACE. SISW, SDFN.

6/5/2023: CHECK PSI SITP-0 PSI, SICP-40 PSI, BH-0 PSI. TAG SUB, TIH, TAG PLUG #1 @ 6,308'. LW 1.5 BBL, CIRC 4 BBL. PT CASING 500# (BAD TEST). CEMENT #2 PLUG (GALLUP) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX. BOC @ 5,582'. TOC @ 5,382'. DISPLACE 20.8 BBL, LD 8 JTS, REV OUT 30 BBL. TOO H 12 STDS. W.O.C. TIH, TAG PLUG #2 @ 5,466'. LD 26 JTS. LW 2 BBL, CIRC 3 BBL, PT CASING 500# (BAD TEST). TOO H 74 STDS. SISW, SDFN.

6/6/2023: CHECK PSI SITP-0 PSI, SICP-0 PSI, BH-0 PSI. RIH, PERF @ 4,703'. LW .5 BBL. EST RATE 2 BPM @ 700#. TIH, SET CIRC #2 @ 4,653'. LW .5 BBL. PT CASING 500# (BAD TEST. STING IN, ATT TO EST RATE .5 BPM @ 700#, LOCKED UP 8 BBL AWAY, 800#. VERBAL APPROVAL TO PUMP INSIDE PLUG NMOC/D/MONICA KUEHLING & BLM/MONTY GOMEZ. CEMENT #3 PLUG (MANCOS) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX BOC @ 4,653'. TOC @ 4,453'. DISPLACE 17.2 BBL LD 8 JTS, W.O.C. TIH, TAG PLUG #3 @ 4,439'. LD 26 JTS, LW 1.5 BBL. CIRC 2 BBL, PT CASING 500# (BAD TEST). CEMENT #4 PLUG (MESAVERDE) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX BOC @ 3,645'. TOC @ 3,445'. DISPLACE 13.3 BBL, LD 7 JTS, REVERSE OUT 20 BBL. TOO H 12 STDS, W.O.C. TIH, TAG PLUG #4 @ 3,545', LD 18 JTS, LW 1 BBL, CIRC 1.5 BBL, PT CASING 500# (BAD TEST). TOO H 48 STDS. SISW, SDFN.

6/7/2023: CHECK PSI SITP-0 PSI, SICP-0 PSI, BH-0 PSI. BDW. RIH, PERF @ 3,064'. LW 10 BBL. ATT TO EST RATE .5 BBL @ 800#, NO RATE. VERBAL APPROVAL TO PUMP INSIDE PLUG NMOC/D/MONICA KUEHLING & BLM/MONTY GOMEZ. TIH TO 3,114'. CEMENT #5 PLUG (CHACRA) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX. BOC @ 3,114'. TOC @ 2,914'. DISPLACE 11.2 BBL. LD 7 JTS. W.O.C. TIH, TAG PLUG #5 @ 2,952'. LD 27 JTS, LW 1.5 BBL. CIRC 2 BBL, PT CASING 500# (BAD TEST). CEMENT #6 PLUG (PICTURED CLIFFS) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX BOC @ 2,098'. TOC @ 1,898'. DISPLACE 7.3 BBL LD 7 JTS. W.O.C. TIH, TAG PLUG #6 @ ,898', LD 12 JTS LW 2 BBL, CIRC 3 BBL, PT CASING 700# (GOOD TEST). TOO H 25 STDS. SISW, SDFN.

6/8/2023: SITP-0 PSI, SICP-0 PSI, BH-0 PSI. BDW. RIH, PERF @ 1,590'. LW 4 BBL. ATT TO EST RATE 1 BBL @ 800#, NO RATE. VERBAL APPROVAL TO PUMP INSIDE PLUG NMOC/D/MONICA KUEHLING & BLM/MONTY GOMEZ. CEMENT #7 PLUG (FRUITLAND COAL) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX. BOC @ 1,640'. TOC @ 1,440'. DISPLACE 5.5 BBL LD 18 JTS, TOO H 17 STDS. RIH, PERF @ 1,138'. LW 4 BBL. EST RATE 1 BPM @ 500#, PUMP IN 3 BBL. MU & SET CIRC #3 @ 1,088'. CEMENT #8 PLUG (KIRTLAND/OJO ALAMO) 13 SX 1.37 YIELD, 14.8# 6.64 GAL/SX. BOC @ 1,138'. TOC @ 795'. 115 SX OUTSIDE/4 SX BELOW, 19 SX ABOVE. DISPLACE 3 BBL. LD 34 JTS. RIH, PERF @ 384'. LW 9 BBL, EST RATE 1.5 BPM @ 0#. CIRC UP BH. VERBAL APPROVALS TO PUMP PLUG TO SURFACE NMOC/D/MONICA KUEHLING & BLM/MONTY GOMEZ. CEMENT #9 PLUG (CSG SHOE TO SURFACE) 114 SX 1.37 YIELD, 14.8# 6.64 GAL/SX. BOC @ 384'. TOC @ 0'. RD RIG FLOOR. ND BOP, W.O.C. CUT OFF WH. TOC IN 4.5" 6'/TOC 8 5/8" 0'. WELD ON P&A MARKER. FILL CASING & CELLAR W/19 SX CEMENT. RDRR @ 18:00.

BLM REP ON LOCATION MONTY GOMEZ TO WITNESS P&A.

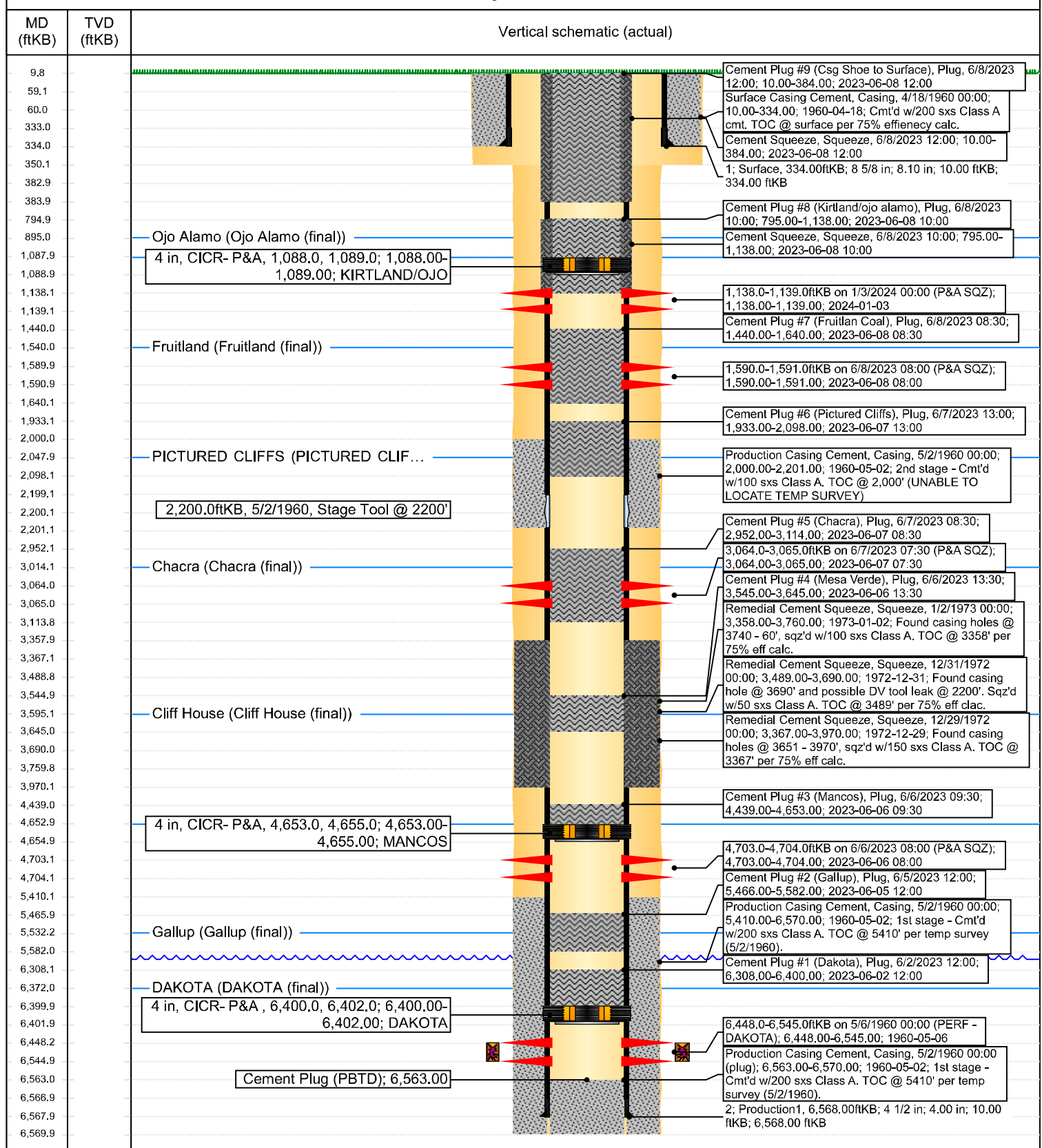


## Current Schematic - Version 3

Well Name: CAIN #10

API / UWI 3004507428	Surface Legal Location 015-028N-010W-M	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0707	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,877.00	Original KB/RT Elevation (ft) 5,887.00	KB-Ground Distance (ft) 10.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

## Original Hole



Cheryl Weston

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From: Michael Wissing  
Sent: Thursday, June 8, 2023 1:54 PM  
To: Kuehling, Monica, EMNRD  
Cc: Roy Kimbel - (C); Mandi Walker; Cheryl Weston; Rustin Mikeska; Lee Murphy; Rennick, Kenneth G  
Subject: Hilcorp P&A- 4th NOI Change Request- Cain 10 (3004507428)

Monica,  
Here is our final update on changes to the Cain #10 P&A...

All approved by BLM onsite rep with Monty Gomez before cmt pumped.

P&A plugs completed:

1. Dakota- CIBP at 6400'
2. 6308'-6400' inside cmt plug (Dakota)
3. 5466'-5582' inside cmt plug (Gallup)
4. 4439'-4653' inside cmt plug, no injection once set CICR at 4653' (Mancos)
5. 3545'-3645' inside cmt plug (Cliff House)
6. 2952'-3114' inside cmt plug due to no injection into perfs at 3064', no CICR (Chacra)
7. 1898'-2098' inside cmt plug (PC)

Proposed today:

8. 1440'-1640' inside cmt plug, no injection into perfs at 1590' (Fruitland) **NOI COA**
9. 795'-1138' inside/outside cmt plug w/ CICR (Ojo/Kirtland) **COA by onsite BLM, Monty- formation top change of Ojo at 895'**
10. Surface-384' circulated cmt plug (csg shoe and surface) **Combined 2 cmt plugs due to circulation achieved.**
11. Cut whd and marker installed.

Thank you!

Michael Wissing  
318-572-7870 cell

---

From: Rennick, Kenneth G <krennick@blm.gov>  
Sent: Wednesday, June 7, 2023 11:49 AM  
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Michael Wissing <mwissing@hilcorp.com>  
Cc: Roy Kimbel - (C) <Roy.Kimbel@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; Cheryl Weston <cweston@hilcorp.com>; Rustin Mikeska <rmikeska@hilcorp.com>; Lee Murphy <lmurphy@hilcorp.com>  
Subject: Re: [EXTERNAL] Hilcorp P&A- 3rd NOI Change Request- Cain 10 (3004507428)

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The BLM finds the proposal appropriate.

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

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From: Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>  
Sent: Wednesday, June 7, 2023 10:19 AM  
To: Michael Wissing <[mwissing@hilcorp.com](mailto:mwissing@hilcorp.com)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>  
Cc: Roy Kimbel - (C) <[Roy.Kimbel@hilcorp.com](mailto:Roy.Kimbel@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Cheryl Weston <[cweston@hilcorp.com](mailto:cweston@hilcorp.com)>; Rustin Mikeska <[rmikeska@hilcorp.com](mailto:rmikeska@hilcorp.com)>; Lee Murphy <[lmurphy@hilcorp.com](mailto:lmurphy@hilcorp.com)>  
Subject: RE: [EXTERNAL] Hilcorp P&A- 3rd NOI Change Request- Cain 10 (3004507428)

Verbal approval given to proceed earlier with prior approval from BLM on site

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: Michael Wissing <[mwissing@hilcorp.com](mailto:mwissing@hilcorp.com)>  
Sent: Wednesday, June 7, 2023 9:28 AM  
To: Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>; Kenny Rennick - BLM ([krennick@blm.gov](mailto:krennick@blm.gov))  
<[krennick@blm.gov](mailto:krennick@blm.gov)>  
Cc: Roy Kimbel - (C) <[Roy.Kimbel@hilcorp.com](mailto:Roy.Kimbel@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Cheryl Weston <[cweston@hilcorp.com](mailto:cweston@hilcorp.com)>; Rustin Mikeska <[rmikeska@hilcorp.com](mailto:rmikeska@hilcorp.com)>; Lee Murphy <[lmurphy@hilcorp.com](mailto:lmurphy@hilcorp.com)>  
Subject: [EXTERNAL] Hilcorp P&A- 3rd NOI Change Request- Cain 10 (3004507428)

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Hey Monica,  
Here is our update on the Cain #10 P&A as of this morning. We had no injection into the Chacra formation....

P&A plugs completed:

1. Dakota- CIBP at 6400'
2. 6308'-6400' inside cmt plug (Dakota)
3. 5466'-5582' inside cmt plug (Gallup)
4. 4439'-4653' inside cmt plug, no injection once set CICR at 4653' (Mancos)
5. 3545'-3645' inside cmt plug (Cliff House)



Today:

6. 2914'-3114' inside cmt plug due to no injection into perfs at 3064', no CICR (Chacra) **NOI Change**
7. Back to approved NOI + COAs procedure

\*Chacra NOI change is approved by BLM onsite- Monty Gomez.

---

From: Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>

Sent: Tuesday, June 6, 2023 2:34 PM

To: Michael Wissing <[mwissing@hilcorp.com](mailto:mwissing@hilcorp.com)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>

Cc: Roy Kimbel - (C) <[Roy.Kimbel@hilcorp.com](mailto:Roy.Kimbel@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Cheryl Weston <[cweston@hilcorp.com](mailto:cweston@hilcorp.com)>; Rustin Mikeska <[rmikeska@hilcorp.com](mailto:rmikeska@hilcorp.com)>; Lee Murphy <[lmurphy@hilcorp.com](mailto:lmurphy@hilcorp.com)>

Subject: RE: [EXTERNAL] Hilcorp P&A- 2nd NOI Change Request- Cain 10 (3004507428)

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Thank you

Verbal approval given earlier with prior approval from BLM on site.

Please include all email chains with subsequent

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: Michael Wissing <[mwissing@hilcorp.com](mailto:mwissing@hilcorp.com)>

Sent: Tuesday, June 6, 2023 12:51 PM

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

Cc: Roy Kimbel - (C) <[Roy.Kimbel@hilcorp.com](mailto:Roy.Kimbel@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Cheryl Weston <[cweston@hilcorp.com](mailto:cweston@hilcorp.com)>; Rustin Mikeska <[rmikeska@hilcorp.com](mailto:rmikeska@hilcorp.com)>; Lee Murphy <[lmurphy@hilcorp.com](mailto:lmurphy@hilcorp.com)>

Subject: [EXTERNAL] Hilcorp P&A- 2nd NOI Change Request- Cain 10 (3004507428)

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Monica and Kenny,  
Here is an update on our P&A ops going on today....

Hilcorp Energy  
Cain #10  
P&A Ops  
API: 30-045-07428

P&A plugs completed:

1. Dakota- CIBP at 6400'
2. 6308'-6400' cmt plug (Dakota)
3. 5466'-5582' cmt plug (Gallup)

Today:

Mancos: we were unable to inject after setting CICR. Pumped a balanced 200' cmt plug 4,453'-4,653' on top of CICR.

Next:

1. WOC and tag TOC
2. Continue as approved with P&A NOI for Mesa Verde plug.

Michael Wissing

---

From: Cordero, Gilbert, EMNRD <[Gilbert.Cordero@emnrd.nm.gov](mailto:Gilbert.Cordero@emnrd.nm.gov)>

Sent: Friday, June 2, 2023 9:29 AM

To: Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>; Michael Wissing <[mwissing@hilcorp.com](mailto:mwissing@hilcorp.com)>; Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>

Cc: Roy Kimbel - (C) <[Roy.Kimbel@hilcorp.com](mailto:Roy.Kimbel@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Cheryl Weston <[cweston@hilcorp.com](mailto:cweston@hilcorp.com)>; Rustin Mikeska <[rmikeska@hilcorp.com](mailto:rmikeska@hilcorp.com)>; Lee Murphy <[lmurphy@hilcorp.com](mailto:lmurphy@hilcorp.com)>

Subject: RE: [EXTERNAL] Hilcorp P&A- NOI Change Request- Cain 10 (3004507428)

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OCD approves the changes

Gilbert Cordero  
NMOCD NM South  
C 575-626-0830

---

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

Sent: Friday, June 2, 2023 8:18 AM

To: Michael Wissing <[mwissing@hilcorp.com](mailto:mwissing@hilcorp.com)>; Cordero, Gilbert, EMNRD <[Gilbert.Cordero@emnrd.nm.gov](mailto:Gilbert.Cordero@emnrd.nm.gov)>; Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>

Cc: Roy Kimbel - (C) <[Roy.Kimbel@hilcorp.com](mailto:Roy.Kimbel@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Cheryl Weston <[cweston@hilcorp.com](mailto:cweston@hilcorp.com)>; Rustin Mikeska <[rmikeska@hilcorp.com](mailto:rmikeska@hilcorp.com)>; Lee Murphy <[lmurphy@hilcorp.com](mailto:lmurphy@hilcorp.com)>

Subject: Re: [EXTERNAL] Hilcorp P&A- NOI Change Request- Cain 10 (3004507428)

The BLM finds the proposal appropriate.

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: Michael Wissing <[mwissing@hilcorp.com](mailto:mwissing@hilcorp.com)>  
Sent: Friday, June 2, 2023 7:44 AM  
To: Cordero, Gilbert, EMNRD <[Gilbert.Cordero@state.nm.us](mailto:Gilbert.Cordero@state.nm.us)>; Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>  
Cc: Roy Kimbel - (C) <[Roy.Kimbel@hilcorp.com](mailto:Roy.Kimbel@hilcorp.com)>; Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>; Cheryl Weston <[cweston@hilcorp.com](mailto:cweston@hilcorp.com)>; Rustin Mikeska <[rmikeska@hilcorp.com](mailto:rmikeska@hilcorp.com)>; Lee Murphy <[lmurphy@hilcorp.com](mailto:lmurphy@hilcorp.com)>  
Subject: [EXTERNAL] Hilcorp P&A- NOI Change Request- Cain 10 (3004507428)

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Gilbert and Kenny,

Hilcorp Energy  
Cain #10  
P&A Ops  
API: 30-045-07428

During our initial rig work to pull the tbg out, we found the production packer to be set higher than documented (found at 6,307'). Yesterday, we milled this pkr out to get our first CIBP closer to the Dakota perforations (6448'-6545'). We would like to propose a change to the 1<sup>st</sup> cement plug (Dakota) based on milling this packer out. We will be ready to set this CIBP by lunch today.

1. Set a 4.5" CIBP at 6,400' (Top Dakota perf 6,448') **PROPOSED**
2. Pressure test csg.
3. 150' cmt plug from 6,250'-6,400' (Top DK perf 6,448') **PROPOSED**
4. Back to approved NOI with the Gallup top
  - a. Run a CBL
  - b. Continue with cement plugs based on CBL results
  - c. 2 COAs by BLM and NMOCD with top changes

**Geologic Formation Est. tops Subsea Elev**

Nacimiento Fm.	Surface	6721
Ojo Alamo Ss	895	4992
Kirtland Fm.	1088	4799
Fruitland Fm.	1540	4347
Pictured Cliffs	2048	3839
Lewis Shale	2140	3747
Huerfano Bentonite	2257	3630
Chacra (Upper)	2610	3277
Lewis Stringer	2930	2957
Chacra (Lower)	3014	2873
Cliff House	3595	2292
Menefee Fm.	3788	2099
Point Lookout Fm.	4350	1537
Mancos Shale	4653	1234
Tocito Ss Lentils	5425	462
Gallup	5532	355
Mancos Stringer	6100	-213
Juana Lopez	6225	-338
Green Horn Sh	6335	-448
Graneros	6390	-503
Dakota	6470	-583

Thank you!

Michael Wissing

Ops Engr- P&A

Hilcorp Energy Company

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**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 228672

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 228672
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted for record - NMOCD JRH 6/29/23. Well P&A'd 6/8/23	6/29/2023