

Well Name: HUERFANO UNIT	Well Location: T25N / R10W / SEC 13 / NESW / 36.398056 / -107.85141	County or Parish/State: SAN JUAN / NM
Well Number: 221	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF079787	Unit or CA Name: HUERFANO UNIT-- DK	Unit or CA Number: NMNM78395C
US Well Number: 3004520862	Well Status: Abandoned	Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2745824

Type of Submission: Subsequent Report

Date Sundry Submitted: 08/11/2023

Date Operation Actually Began: 07/18/2023

Type of Action: Plug and Abandonment

Time Sundry Submitted: 02:34

Actual Procedure: Hilcorp Energy plugged and abandoned the subject well on 7/25/2023. Please see attached reports.

SR Attachments

Actual Procedure

Huerfano_Unit_221_P_A_Subsequent_Sundry_20230811143336.pdf

Well Name: HUERFANO UNIT

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NESW / 36.398056 / -107.85141

County or Parish/State: SAN
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Lease Number: NMSF079787

Unit or CA Name: HUERFANO UNIT--
DK

Unit or CA Number:
NMNM78395C

US Well Number: 3004520862

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: AUG 11, 2023 02:33 PM

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: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 08/15/2023

Signature: Matthew Kade

Huerfano Unit 221 - P&A

API#: 3004520862

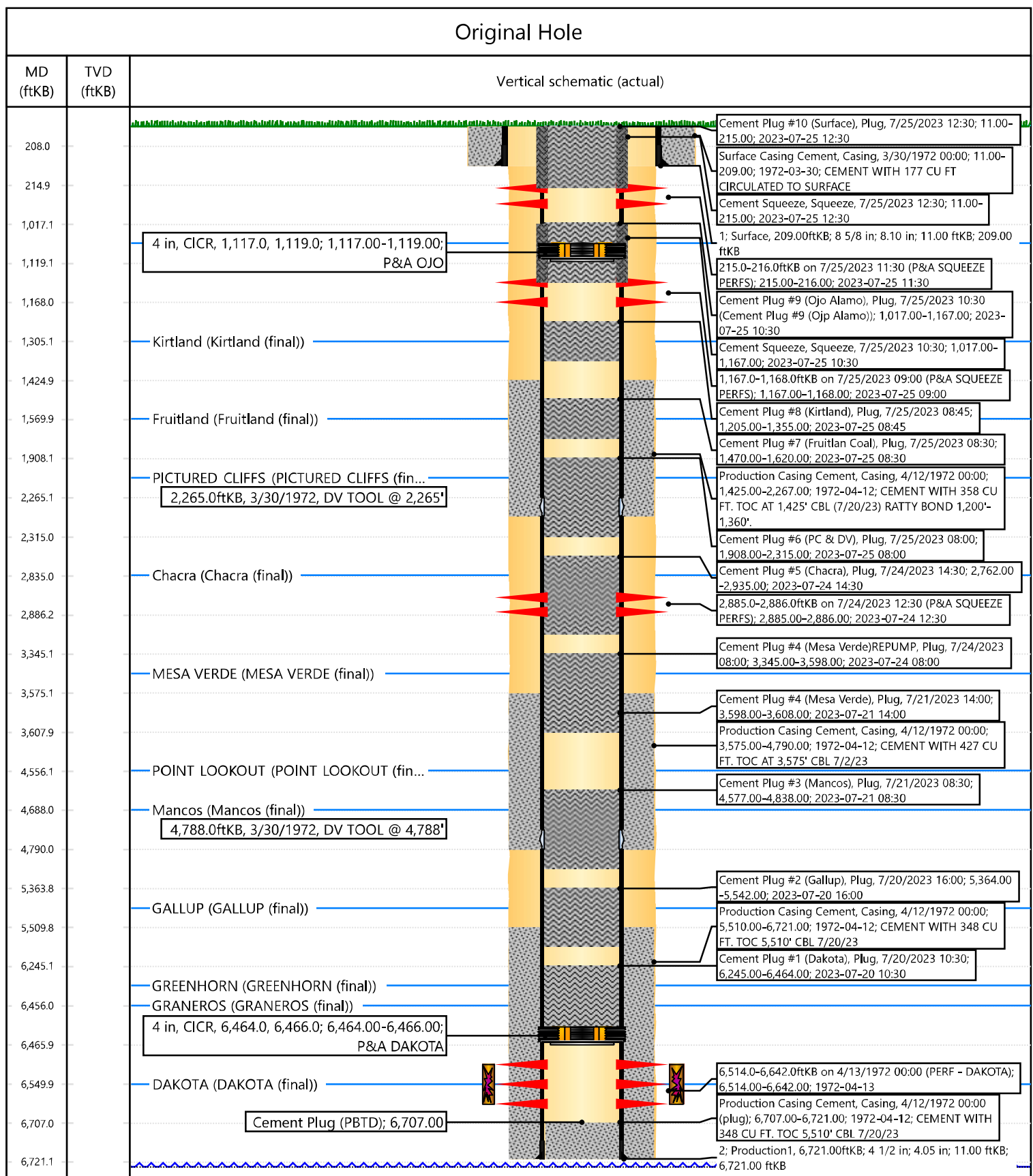
- 7/18/2023** MIRU. HOLD PJSM. SITP 0#, SICP 0#, BH 0#, BDW. ND WH, NU & FT BOP'S. RU FLOOR. PULL TBG HANGER. LD 209 JTS 2.375" 4.7# TBG. TIH 3 7/8" BIT & 4.5" SCRAPER TO 2,034'. SISW. SDFN.
- 7/19/2023** HOLD PJSM. SITP 0#, SICP 0#, BH 0#, BDW. RIH 3 7/8" BIT & 4.5" SCRAPER 2,034' TO 6,495'. TOO H 102 STDS. LD SCRAPER. TIH, SET **4.5" CIBP #1 @ 6,464'**. STING OUT. LW 23 BBL. CIRC 112 BBL. PT CASING 500# (BAD TEST). TOO H 102 STDS. SISW. SDFN.
- 7/20/2023** HOLD PJSM. SITP 0#, SICP 0#, BH 0#, BDW. RU WL. **RUN CBL 6,464' TO SURFACE**. RD WL. TIH TO 6,464' W/102 STDS. **CEMENT #1 PLUG (DAKOTA): 13 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 6,464', TOC @ 6,264'. DISPLACE 24 BBL. LD 8 JTS, W.O.C. REV 30 BBL. TOO H 12 STDS. TIH, TAG PLUG # 1 @ 6,245'. LD 24 JTS, LW 8 BBL. CIRC 9 BBL. PT CASING 500# (BAD TEST). **CEMENT #2 PLUG (GALLUP): 13 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 5,542', TOC @ 5,342'. DISPLACE 20.6 BBL. W.O.C. REV 27 BBL. TOO H 12 STDS. SISW. SDFN. BLM REP ON LOCATION, CLAY YAZZIE.
- 7/21/2023** HOLD PJSM. SITP 0#, SICP 0#, BH 0#. BDW. TIH TAG PLUG # 2 @ 5,364', LD 17 JTS, LW 13 BBL, CIRC 14 BBL. PT CASING 500#, (BAD TEST). **CEMENT #3 PLUG, (MANCOS): 20 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 4,838', TOC @ 4,538'. DISPLACE 17.5 BBL. W.O.C. TOO H 71 STDS. TIH TAG PLUG #3 @ 4,577'. LD 31 JTS, LW 8 BBL, CIRC 40 BBL, PT CASING 500#, (BAD TEST). **CEMENT #4 PLUG, (MESA VERDE): 13 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 3,608', TOC @ 3,408'. DISPLACE 13 BBL. W.O.C. REVERSE 20 BBL. TOO H 12 STDS. SISW. SDFN. BLM REP ON LOCATION, CLAY YAZZIE.
- 7/24/2023** HOLD PJSM. SITP 0#, SICP 0#, BH 0#. BDW. TIH, TAG PLUG # 4 @ 3,598'. LW 20 BBL. CIRC 22 BBL. PT CASING 500# (BAD TEST). **CEMENT #4 PLUG, RE-PUMP (MESAVERDE): 16 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 3,598', TOC @ 3,348'. DISPLACE 12.9 BBL. W.O.C. TOO H 52 STDS. TIH, TAG PLUG #4 @ 3,345'. LD 17 JTS. LW 2 BBL. CIRC 7 BBL. PT CASING 650# (GOOD TEST). TOO H 44 STDS. RU WL. RIH **PERF @ 2,885'**. RD WL. LW 6.5 BBL. ATT TO EST RATE 1 BPM, @ 700#. PUMP 3 BBL, NO RATE. TIH TO 2,935'. **VERBAL APPROVAL TO PUMP INSIDE PLUG BT NMOCD, MONICA KUEHLING AND BLM, CLAY YAZZIE. CEMENT #5 PLUG (CHACRA): 16 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 2,935', TOC @ 2,685'. DISPLACE 10.3 BBL. LD 8 JTS. REV 16 BBL. TOO H 12 STDS. W.O.C. SISW. SDFN.
- 7/25/2023** HOLD PJSM. SITP 0#, SICP 0#, BH 0#. BDW. TIH, TAG PLUG # 5 @ 2,762'. **CEMENT #6 PLUG (PC/DV): 27 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 2,315'. TOC @ 1,908'. DISPLACE 7.3 BBL. LD 22 JTS. **CEMENT #7 PLUG (FRUITLAND COAL): 10 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 1,620', TOC @ 1,470'. DISPLACE 5.6 BBL. LD 8 JTS. **CEMENT #8 PLUG (KIRTLAND): 10 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 1,355', TOC @ 1,205'. DISPLACE 4.6 BBL. TOO H 17 STDS. RU WL. RIH, **PERF @ 1,167'**. RD WL. LW 3 BBL, EST RATE 1.2 BPM, @ 650#. PUMP 3 BBL. TIH, SET **CICR #2 @ 1,117'**. **CEMENT #9 PLUG (OJO ALAMO): 43 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 1,167', TOC @ 1,017'. 7 SX ABOVE/3 SX BELOW/33 SX OUTSIDE. DISPLACE 3.9 BBL. RU WL, RIH **PERF @ 215'**. RD WL. LW 3 BBL, CIRC 30 BBL. **CEMENT #10 PLUG (SURFACE): 63 SX 1.37 YLD, 14.8# 6.64 GAL/SX**. BOC @ 215', TOC @ 0'. RD FLOOR. ND BOP. W.O.C. **CUT OFF WH**. TOC IN 4.5" 0'/TOC 8 5/8" 0. WELD ON P&A MARKER. FILL CASING & CELLAR W/16 SX CEMENT. **RDMO @ 19:00**. BLM REP ON LOCATION, CLAY YAZZIE.



Current Schematic - Version 3

Well Name: HUERFANO UNIT #221

API/ UWI 3004520862	Surface Legal Location 013-025N-010W-K	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0610	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 6,811.00	Original KB/RT Elevation (ft) 6,822.00	RKB to GL (ft) 11.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	



Cheryl Weston

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Thursday, July 20, 2023 3:35 PM
To: Kuehling, Monica, EMNRD; Michael Wissing
Cc: Mandi Walker; Cheryl Weston; Roy Kimbel - (C); Yazzie, Clayton T; Kade, Matthew H
Subject: Re: [EXTERNAL] Hilcorp P&A- 2nd Change Request- Huerfano Unit 221 (3004520862)

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The BLM finds latest plugging proposal from Hilcorp appropriate.

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: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Thursday, July 20, 2023 2:00 PM
To: Michael Wissing <mwissing@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>
Cc: Mandi Walker <mwalker@hilcorp.com>; Cheryl Weston <cweston@hilcorp.com>; Roy Kimbel - (C) <Roy.Kimbel@hilcorp.com>; Yazzie, Clayton T <cyazzie@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Subject: RE: [EXTERNAL] Hilcorp P&A- 2nd Change Request- Huerfano Unit 221 (3004520862)

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

From: Michael Wissing <mwwissing@hilcorp.com>

Sent: Thursday, July 20, 2023 1:42 PM

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

Cc: Mandi Walker <mwalker@hilcorp.com>; Cheryl Weston <cweston@hilcorp.com>; Roy Kimbel - (C) <Roy.Kimbel@hilcorp.com>; Yazzie, Clayton T <cyazzie@blm.gov>; Kade, Matthew H <mkade@blm.gov>

Subject: [EXTERNAL] Hilcorp P&A- 2nd Change Request- Huerfano Unit 221 (3004520862)

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Everyone,

Here is our Round 2 P&A proposal based our discussions with both agencies. Thank you for the help on this.

1. Set 4.5" CIBP at 6464', PT csg- failed **(DONE)**
2. CBL to surface **(DONE)**
3. 150' cmt inside plug 6314'-6464' (Dakota top perf 6514', Graneros 6456') **(DONE)**
4. 150' cmt inside plug 5392'-5542' (Gallup 5492', COA)
5. 250' cmt inside plug 4588'-4838' (DV tool 4788', Mancos 4688') **(add DV tool)**
6. 150' cmt inside plug 3458'-3608' (MV 3558')
7. 150' cmt inside/outside plug 2735'-2885' (Chacra 2835')
8. 407' cmt inside plug 1908'-2315' (DV tool 2265', PC 2008') **(add DV tool)**
 - A. We could separate the DV & PC plugs if we get a good pressure test on the csg.
9. 150' cmt inside plug 1470'-1620' (FRC 1570')
10. 150' cmt inside plug 1205'-1355' (Kirtland 1305') **(Change request due to CBL bond)**
11. 150' cmt inside/outside plug 1017'-1167' (Ojo 1117')
12. 215' cmt perf/circulate plug Surface- 215' (Csg shoe 209') **(Change request due to CBL bond)**
13. Cut whd and add marker

Michael Wissing
318-572-7870 cell

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

Sent: Thursday, July 20, 2023 1:34 PM

To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Michael Wissing <mwwissing@hilcorp.com>

Cc: Mandi Walker <mwalker@hilcorp.com>; Cheryl Weston <cweston@hilcorp.com>; Roy Kimbel - (C) <Roy.Kimbel@hilcorp.com>; Yazzie, Clayton T <cyazzie@blm.gov>; Kade, Matthew H <mkade@blm.gov>

Subject: Re: [EXTERNAL] Hilcorp P&A- Change Request with CBL- Huerfano Unit 221 (3004520862)

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The BLM finds Hilcorp updated plugging proposal appropriate. Perforating at 5490 does not add any additional effective protection by review of the CBL.

If NM OCD wants to make the additional work at 5490 a requirement, that has to be done between NM OCD and Hilcorp.

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: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Thursday, July 20, 2023 11:49 AM
To: Michael Wissing <mwissing@hilcorp.com>
Cc: Rennick, Kenneth G <krennick@blm.gov>; Mandi Walker <mwalker@hilcorp.com>; Cheryl Weston <cweston@hilcorp.com>; Roy Kimbel - (C) <Roy.Kimbel@hilcorp.com>
Subject: RE: [EXTERNAL] Hilcorp P&A- Change Request with CBL- Huerfano Unit 221 (3004520862)

Michael

NMOCD approves below except for Gallup plug I think you should try perforating around 5490 – there is cement below the Gallup top but I am not sure at top of formation –

The surface shoe should be perforated and cement to surface inside/out.

All with prior approval from the BLM

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: Michael Wissing <mwissing@hilcorp.com>
Sent: Thursday, July 20, 2023 10:21 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Kenny Rennick - BLM (<krennick@blm.gov> <krennick@blm.gov>); Mandi Walker <mwalker@hilcorp.com>; Cheryl Weston <cweston@hilcorp.com>; Roy Kimbel - (C) <Roy.Kimbel@hilcorp.com>
Subject: [EXTERNAL] Hilcorp P&A- Change Request with CBL- Huerfano Unit 221 (3004520862)

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Good morning, Monica,

We just got our CBL back on our current P&A project for the **Huerfano Unit #221** (API 3004520862). Hilcorp would like to propose the following plugs based on the CBL results. When able, please let us know what you think. There are some rattly bonds over certain perf depths that would restrict any backside cement injection.

SIBHP- 0 psi

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9. 150' cmt inside plug 1470'-1620' (FRC 1570')
10. 150' cmt inside plug 1205'-1355' (Kirtland 1305') (Change request due to CBL bond)
11. 150' cmt inside/outside plug 1017'-1167' (Ojo 1117')
12. 215' cmt circulated plug Surface- 215' (Change request due to CBL bond)
13. Cut whd and add marker

Thank you!

Michael Wissing

Ops Engr- P&A

Mobile: 318-572-7870

Hilcorp Energy Company

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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 252473

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 252473
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	well plugged 7/25/2023	10/27/2023