

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Hilcorp Energy Company 382 Road 3100 Aztec, NM 87410		² OGRID Number 372171
		³ Reason for Filing Code/ Effective Date RC
⁴ API Number 30-045-26417	⁵ Pool Name Basin Fruitland Coal	⁶ Pool Code 71629
⁷ Property Code 318560	⁸ Property Name Houck	⁹ Well Number 2E

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
P	12	29N	10W	16	1080	South	840	East	San Juan

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
									Choose an item.
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	Western Refinery	O
151618	Enterprise	G

IV. Well Completion Data

²¹ Spud Date 6/27/1985	²² Ready Date 10/23/2023	²³ TD 6890'	²⁴ PBTD 6875'	²⁵ Perforations 2130' - 2310'	²⁶ DHC, MC 5327
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12 1/4"	9 5/8", 36#, J-55	224'	150 sx		
8 3/4"	7", 20#, K-55	2724'	285 sx		
6 1/4"	4 1/2", 10.5/11.6#, K-55	6890'	355 sx		
	2 3/8", 4.7#, J-55	6730'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date 10/23/2023	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure SI -60	³⁶ Csg. Pressure SI - 75
³⁷ Choke Size 30/64"	³⁸ Oil 0	³⁹ Water 0	⁴⁰ Gas 22	⁴¹ Test Method	

⁴² 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. Signature:  Printed name: Amanda Walker Title: Operations Regulatory Tech Sr. E-mail Address: mwalker@hilcorp.com Date: 11/13/2023	OIL CONSERVATION DIVISION	
	Approved by: Sarah McGrath	
	Title: Petroleum Specialist - A	
	Approval Date: 11/16/2023	
	Phone: 346-237-2177	

Well Name: HOUCK	Well Location: T29N / R10W / SEC 12 / SESE / 36.735397 / -107.829651	County or Parish/State: SAN JUAN / NM
Well Number: 2E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF077092	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004526417	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2761382

Type of Submission: Subsequent Report

Type of Action: Recompletion

Date Sundry Submitted: 11/14/2023

Time Sundry Submitted: 06:12

Date Operation Actually Began: 10/02/2023

Actual Procedure: The following well has been recompleted into the Fruitland Coal and is now producing as a DHC with the existing Dakota. Please see the attached for the recompletion operations.

SR Attachments

Actual Procedure

Houck_2E_RC_SR_Writeup_20231114061155.pdf

Well Name: HOUCK

Well Location: T29N / R10W / SEC 12 / SESE / 36.735397 / -107.829651

County or Parish/State: SAN JUAN / NM

Well Number: 2E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF077092

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004526417

Well Status: Producing Gas Well

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: AMANDA WALKER

Signed on: NOV 14, 2023 06:12 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST

City: HOUSTON

State: TX

Phone: (346) 237-2177

Email address: MWALKER@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: 11/14/2023

Signature: Matthew Kade

Houck 2E
30-045-26417
NMSF077092
SR Recomplete

10/2/2023: MIRU. CK PRESSURES (SICP-150, SITP-120, SIICP-0, SIBHP-0). ND WH. NU BOP & FT, GOOD TST. UNLAND TBG. SCAN TBG OOH. RIH W/STRING MILL & TIH T/6673'. SDFN

10/3/2023: CK PRESSURES (SICP-120, SITP-NA, SIICP-0, SIBHP-0). TIH & **SET CIBP @ 6650'**. DISPLACE HOLE W/82 BBLS FW, CIRC CLEAN. RUN CBL F/6650' T/SURF. SDFN

10/4/2023: CK PRESSURES (SICP -0, SITP-NA, SIICP-0, SIBHP-0). RIH & **SET CIBP @ 6644'**. PT CSG T/600 PSI, NEG. SDFN **APPROVAL GIVEN TO PERFORM CMT REMEDIATION @ +/-2500'. SEE ATTACHED APPROVALS.**

10/5/2023: CK PRESSURES (SICP -0, SITP-0, SIICP-0, SIBHP-0). TIH W/PKR, START HOLE HUNTING. LEAK ISOLATED BETWEEN 2991' – 3001'. UNABLE TO GET INJECTION INTO LEAK. PMP 2 BBL FW. MIX & PMP 17 SXS (4 BBLS) OF 14.6 PPG, 1.37 YLD, TYPE 3 CMT & DISP W/10 BBL FW. PULL TBG T/2698'. REVERSE CIRC CLEAN W/FW. CLOSE PIPE RAMS & TBG VALVE. BEGIN SQUEEZE INTO CSG LEAK W/800 MAX PRESSURE. SQUEEZE 1.3 BBLS W/MAX PRESSURE OF 850 PSI. FOR THE FIRST BBL HAD CIRC UP 7" CSG. PRESSURE LOCKED UP W/1.3 BBLS GONE. SHUT WELL IN W/850 PSI. SDFN **APPROVAL GIVEN TO SQUEEZE CSG LEAK BETWEEN 2991'-3001'. SEE ATTACHED APPROVALS.**

10/6/2023: CK PRESSURES (SICP-580, SITP-NA, SIICP-0, SIBHP-0). TIH & TAG TOC @ 2853'. RIH & PERF @ 2500'. MU CMT RETAINER & TIH T/2460'. **SET CMT RETAINER @ 2395'**. PMP 3 BBL FW AHEAD T/ENSURE CIRC. MIX & PMP 75 SX (18.2) BBLS OF 14.6#, 1.37 YLD, 6.64 GPS MIX WATER. DISP W/9 BBL FW. STING OUT OF RETAINER. TOH W/TBG LEAVING 0.5 BBL ONTOP OF RETAINER. TIH W/BIT T/2324'. SDFN

10/9/2023: CK PRESSURES (SICP-0, SITP-0, SIICP-0, SIBHP-0). TIH W/BIT & TAG TOC @ 2332'. CO CMT F/2332' T/2395'. **DO CMT RETAINER @ 2395'**. CONT TIH & CO CMT T/2421'. CIRC HOLE CLEAN. SDFN

10/10/2023: CK PRESSURES (SICP-0, SITP-0, SIICP-0, SIBHP-0). TIH W/BIT. CO T/2510'. TIH & TAG TOC @ 2853'. CO T/3050'. CIRC HOLE CLEAN. SDFN

10/11/2023: CK PRESSURES (SICP-0, SITP-0, SIICP-0, SIBHP-0). RIH & RUN CBL F/6644' T/SURF. PERFORM MIT T/580 PSI, F/30 MINS. TST WITNESSED & PASSED BY CLARENCE SMITH/NMOCD. SDFN **APPROVAL GIVEN TO PROCEED W/REVISED PERF INTERVAL. SEE ATTACHED APPROVALS.**

10/12/2023: CK PRESSURES (SICP-0, SITP-0, SIICP-0, SIBHP-0). RIH & **SET SCBP @ 2360'**. NU FRAC STACK & FT, GOOD TST. SDFN.

10/19/2023: CK PRESSURES (SITP: VAC SICP: 0 PSI SIBHP: 0 PSI). RIH & **PERF FRUITLAND COAL (2286' – 2310') INTERVAL W/72 SHOTS @ 0.34" DIA, 3 SPF.** FRUITLAND COAL STIMULATION: (2286' TO 2310') STAGE 1 FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 697 BBLS TOTAL ACID: 750-GAL TOTAL SLICKWATER: 383 BBLS TOTAL L-FRAC: 296 BBLS TOTAL 100 MESH: 5,014 BBLS TOTAL 20/40 SAND: 76,634 LBS TOTAL N2: 703,000 SCF. TIH & **SET ISOLATION PLUG @ 2260'**. **PERF FRUITLAND COAL (2130' – 2230') INTERVAL W/72 SHOTS @ 0.34" DIA, 3 SPF.** FRUITLAND COAL STIMULATION: (2130' TO 2230') STAGE 2 FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 672 BBLS TOTAL ACID: 750-GAL TOTAL SLICKWATER: 385 BBLS TOTAL LINER GEL: 269 BBLS TOTAL 100 MESH: 4,688 LBS TOTAL 20/40 SAND: 86,447 LBS TOTAL N2: 687,000 SCF. RELEASE FRAC CREW.

Houck 2E
30-045-26417
NMSF077092
SR Recomplete

10/20/2023: CK PRESSURES (SITP: 0 PSI SICP: 950 PSI SIBH: 0 PSI). ND FRAC STACK. NU BOP, FT, GOOD TST. UNLOAD WELL & EST CIRC. **DO PLUG @ 2260**. CONT TIH. **DO PLUG @ 2360'**. TOOH T/1759'. SDFN

10/21/2023: CK PRESSURES (SITP: 0 PSI SICP: 600 PSI SIBH: 0 PSI). TOOH, REPLACE JUNK MILL. TIH & TAG PLUG PARTS @ 2416'. EST CIRC. CO. **DO PLUG @ 6644'**. CONT TIH. TAG PLUG @ 6650'. SDFN

10/22/2023: CK PRESSURES (SITP: 0 PSI SICP: 300 PSI SIBH: 0 PSI). TIH W/MILL. EST CIRC & **DO PLUG @ 6650'**. CHASE PLUG PARTS & CO WELL T/6875'. CIRC CLEAN. TOOH. PU BHA & TIH W/214 JTS 2 3/8" 4.7# J-55 PROD TBG. EOT @ 6730'. SN @ 6728'. RDRR. HAND WELL OVER TO OPERATIONS.

WELL NOW PRODUCING AS A FC/DK COMMINGLE

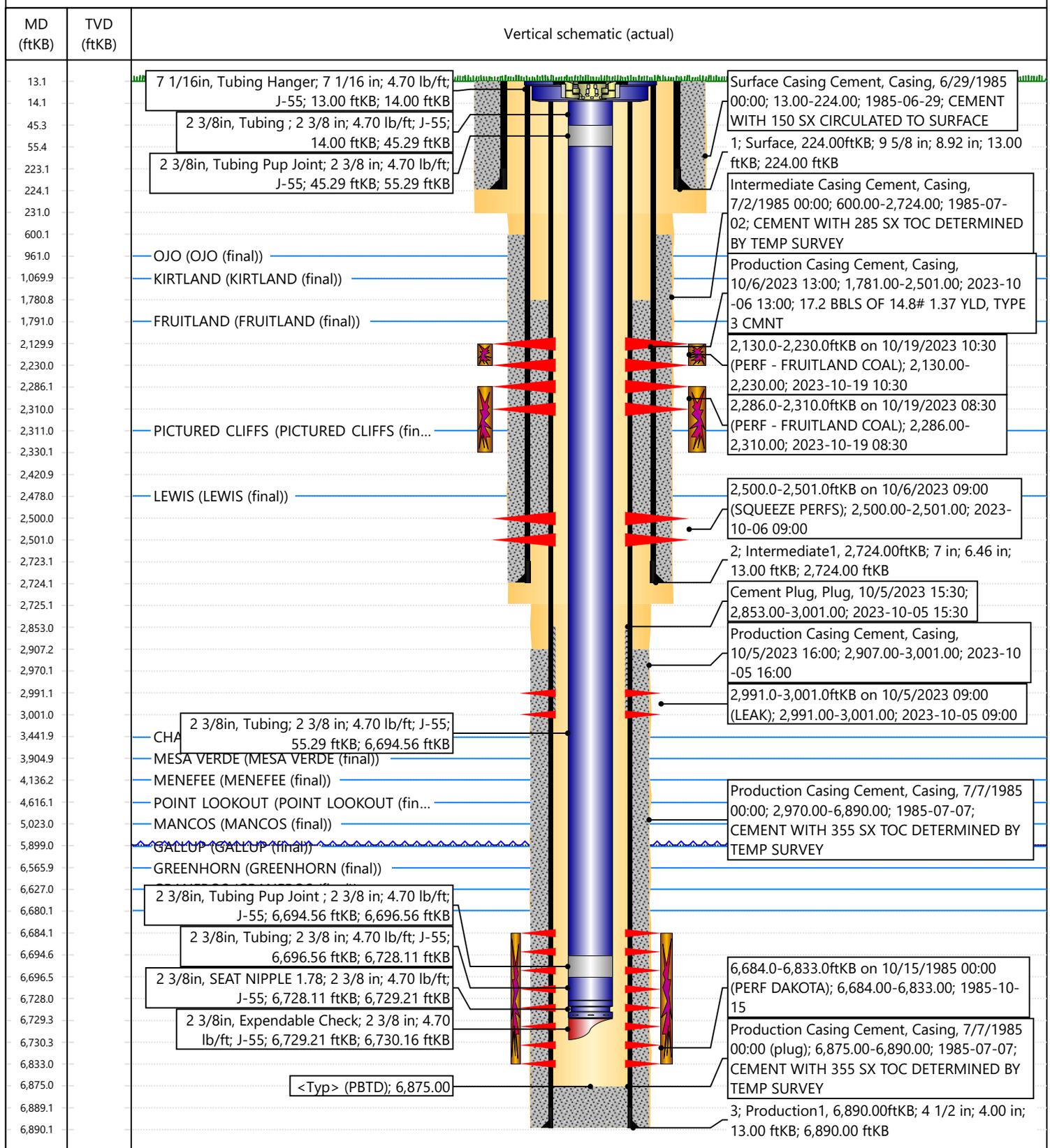


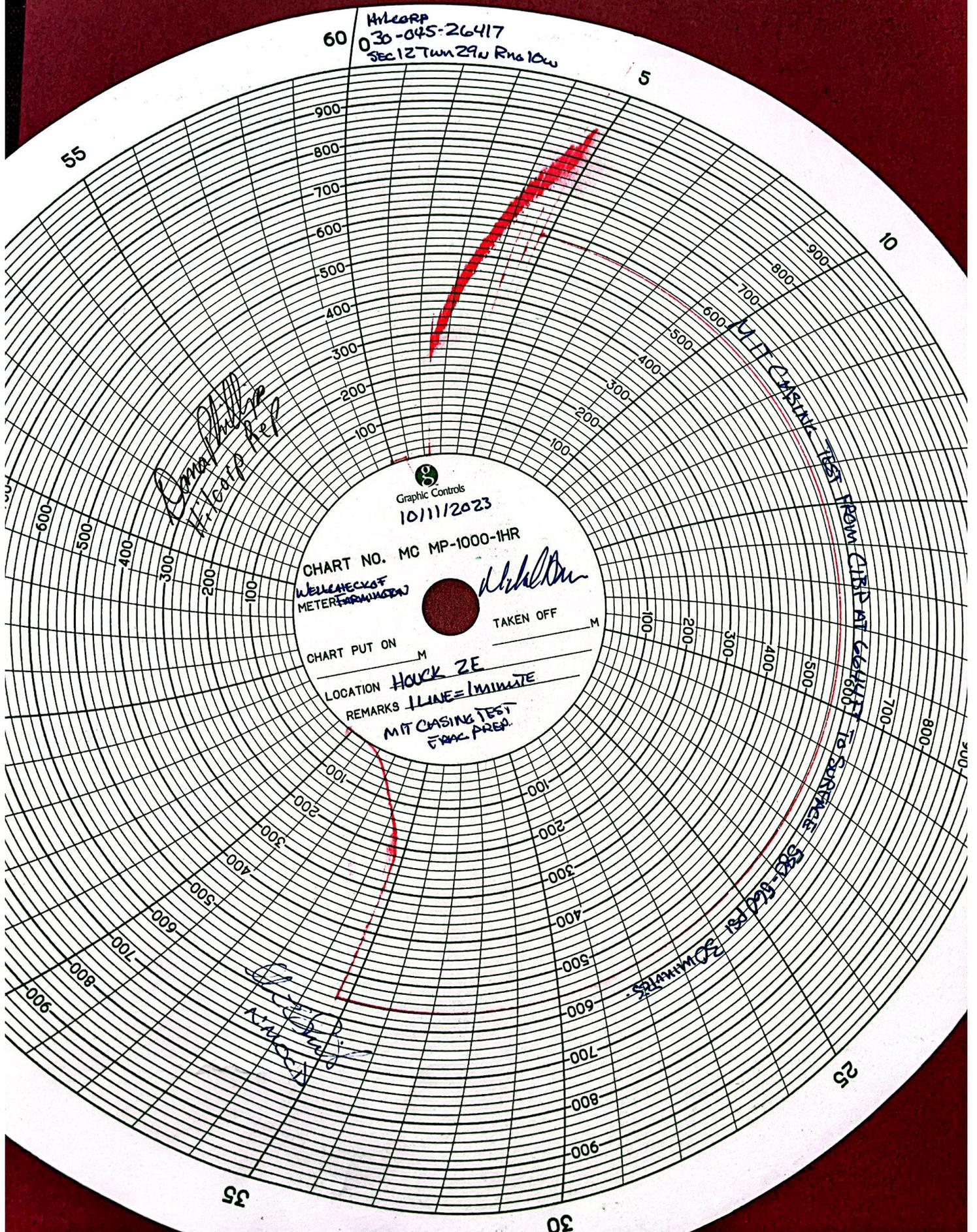
Current Schematic - Version 3

Well Name: **HOUCK #2E**

API / UWI 3004526417	Surface Legal Location 012-029N-010W-P	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0306	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,868.00	Original KB/RT Elevation (ft) 5,881.00	RKB to GL (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole





Mandi Walker

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Thursday, October 12, 2023 9:52 AM
To: Amanda Atencio
Cc: Mandi Walker; Rennick, Kenneth G
Subject: RE: [EXTERNAL] Houck 2E (3004526417)

Categories: NMOCD

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

Amanda – thank you for the log – please submit the log through our epermitting so we will have the information in our system for future reference-we don't usually go by temp logs – so we are assuming there is cement behind the intermediate.

That being said NMOCD approves perforating from 1890 – 2311 within the Fruitland Coal formation.

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: Amanda Atencio <Amanda.Atencio@hilcorp.com>
Sent: Thursday, October 12, 2023 8:13 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Mandi Walker <mwalker@hilcorp.com>
Subject: RE: [EXTERNAL] Houck 2E (3004526417)

Good morning Monica,

I was able to track down the temperature survey ran on 7" intermediate cement job (attached). The temp survey shows uniform cement from 600' – 2635'. Please review and let me know if you have any questions.

Thank you kindly,
Amanda

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Wednesday, October 11, 2023 2:52 PM

To: Amanda Atencio <Amanda.Atencio@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>;
Kade, Matthew H <mkade@blm.gov>
Cc: Mandi Walker <mwalker@hilcorp.com>
Subject: Re: [EXTERNAL] Houck 2E (3004526417)

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

Thank you, Amanda. The BLM finds the proposed perforations 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: Amanda Atencio <Amanda.Atencio@hilcorp.com>
Sent: Wednesday, October 11, 2023 1:45 PM
To: Rennick, Kenneth G <krennick@blm.gov>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Kade,
Matthew H <mkade@blm.gov>
Cc: Mandi Walker <mwalker@hilcorp.com>
Subject: RE: [EXTERNAL] Houck 2E (3004526417)

Hi Kenny – the intervals we plan to perforate are shown below. I would agree – the cement is not the greatest in some spots. We do however have good cement isolation above and below the coal. Please let me know if you have additional questions or need additional info.

2130 - 2132
2174 - 2185
2218 - 2230
2286 - 2310

Thank you,
Amanda

From: Rennick, Kenneth G <krennick@blm.gov>
Sent: Wednesday, October 11, 2023 2:22 PM
To: Amanda Atencio <Amanda.Atencio@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>;
Kade, Matthew H <mkade@blm.gov>
Cc: Mandi Walker <mwalker@hilcorp.com>
Subject: Re: [EXTERNAL] Houck 2E (3004526417)

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

Hello Amanda,

Can you confirm the location of perforations? We noticed for the middle as well as the lower part of the proposed perforation range, the cement is still not the greatest. If you still intend to perforated in those parts, please provide the rationale.

Thank you, in advance!

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: Amanda Atencio <Amanda.Atencio@hilcorp.com>
Sent: Wednesday, October 11, 2023 12:48 PM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrn.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
Cc: Mandi Walker <mwalker@hilcorp.com>
Subject: RE: [EXTERNAL] Houck 2E (3004526417)

Good afternoon all,

Please see the latest CBL ran for the Houck 2E (post cement remediation). Bottom of cement is at 2500'. Top of cement is at 1740'. Pending a successful MIT, Hilcorp is requesting to move forward with our recomplete with a revised perf interval: 1890' – 2311'.

Thank you,

Amanda Atencio

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

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
 Sent: Thursday, October 5, 2023 4:16 PM
 To: Amanda Atencio <Amanda.Atencio@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
 Cc: Mandi Walker <mwalker@hilcorp.com>
 Subject: RE: [EXTERNAL] Houck 2E (3004526417)

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

NMOCD approves squeeze below 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: Rennick, Kenneth G <krennick@blm.gov>
 Sent: Thursday, October 5, 2023 2:35 PM
 To: Amanda Atencio; Kuehling, Monica, EMNRD; Kade, Matthew H
 Cc: Mandi Walker
 Subject: Re: [EXTERNAL] Houck 2E (3004526417)

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

The BLM finds the cement remediation 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: Amanda Atencio <Amanda.Atencio@hilcorp.com>

Sent: Thursday, October 5, 2023 1:29 PM

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

Cc: Mandi Walker <mwalker@hilcorp.com>

Subject: RE: [EXTERNAL] Houck 2E (3004526417)

Good afternoon –

Regarding the Houck 2E - While preparing to shoot circulation holes for our intermediate annular squeeze, we discovered that we a small casing leak between 2991' – 3001'. Please be advised that before pumping the annular squeeze – we plan to pump a balanced cement plug across the leak. After cement remediation is complete, we will drill out the cement, run a CBL and MIT. Please let me know if you have any questions.

Thank you,

Amanda Atencio

Operations Engineer – SJN

Hilcorp Energy Company

Office: (346) 237-2160

Cell: (719) 393-2721

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>

Sent: Wednesday, October 4, 2023 10:29 AM

To: Amanda Atencio <Amanda.Atencio@hilcorp.com>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>

Cc: Mandi Walker <mwalker@hilcorp.com>

Subject: RE: [EXTERNAL] Houck 2E (3004526417)

NMOCD approval is given to cement from 2500 feet – cbl required after cementing and drill out. – Please keep track of pressures on bradenhead and intermediate through workover – schematic shows no cement in bradenhead or across intermediate shoe.

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: Amanda Atencio <Amanda.Atencio@hilcorp.com>

Sent: Wednesday, October 4, 2023 9:24 AM

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

Cc: Mandi Walker <mwalker@hilcorp.com>

Subject: RE: [EXTERNAL] Houck 2E (3004526417)

Bradenhead and intermediate are both 0 psi.

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
 Sent: Wednesday, October 4, 2023 10:21 AM
 To: Rennick, Kenneth G <krennick@blm.gov>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Kade, Matthew H <mkade@blm.gov>
 Cc: Mandi Walker <mwalker@hilcorp.com>
 Subject: RE: [EXTERNAL] Houck 2E (3004526417)

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

Amanda What is bradenhead and intermediate pressures - Monica

From: Rennick, Kenneth G <krennick@blm.gov>
 Sent: Wednesday, October 4, 2023 8:13 AM
 To: Amanda Atencio <Amanda.Atencio@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Kade, Matthew H <mkade@blm.gov>
 Cc: Mandi Walker <mwalker@hilcorp.com>
 Subject: Re: [EXTERNAL] Houck 2E (3004526417) 5

The BLM finds the cement remediation proposal 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: Amanda Atencio <Amanda.Atencio@hilcorp.com>
 Sent: Wednesday, October 4, 2023 8:04 AM
 To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>; Kade, Matthew H <mkade@blm.gov>
 Cc: Mandi Walker <mwalker@hilcorp.com>
 Subject: [EXTERNAL] Houck 2E (3004526417)

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

Good morning,

Please see the attached CBL that was ran during the recomplete wellbore prep for Houck 2E. Based on the CBL – we do not have adequate cement coverage across our zone of interest (NOI approved interval: 1791’ – 2311’). Current TOC 2,970’.

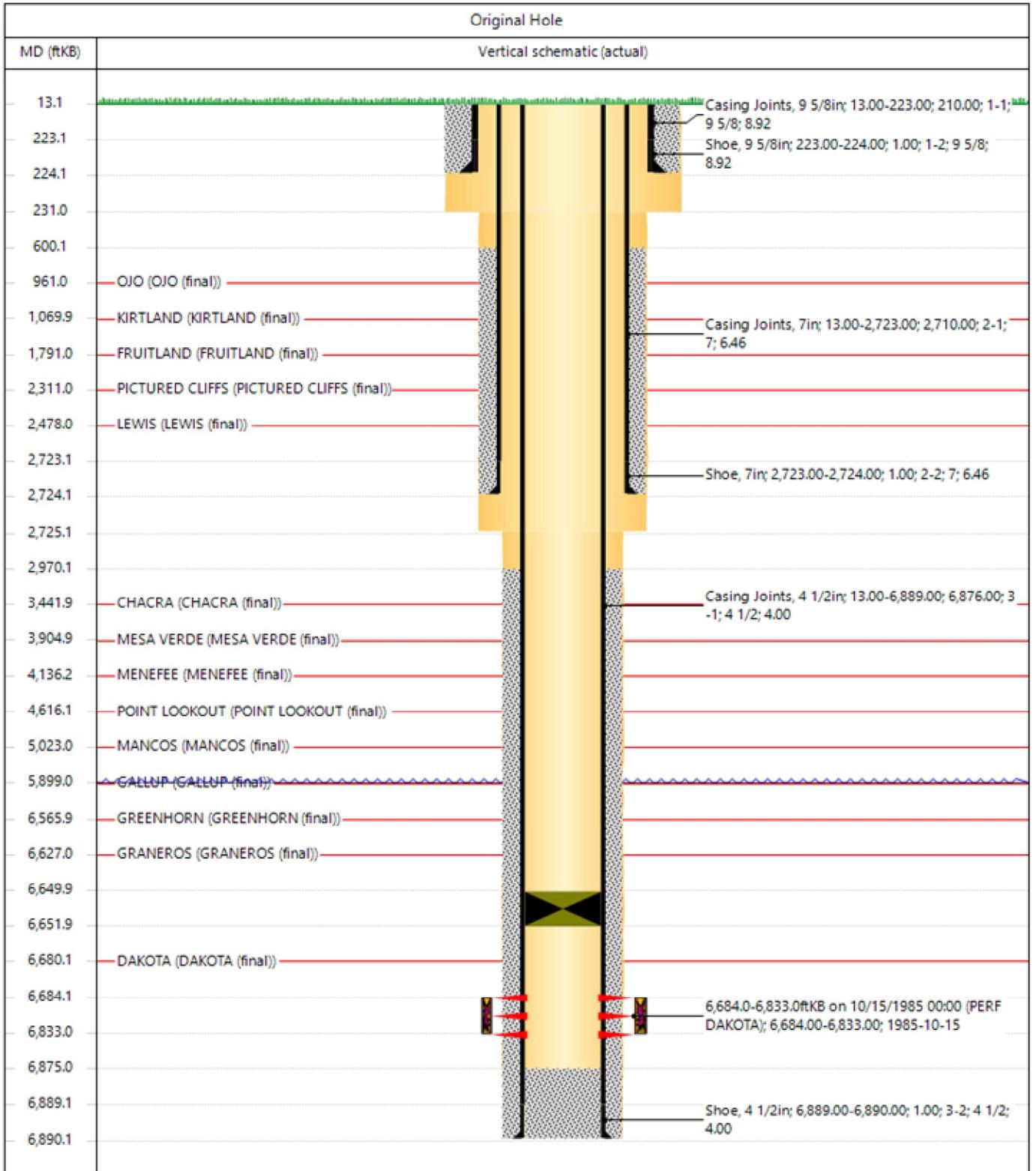
We would like request approval to shoot squeeze holes at +/- 2500’, set a cement retainer and circulate cement up the 4-1/2” x 7” casing annulus to achieve sufficient cement coverage across the Fruitland Coal interval. Current and proposed well schematics are below for reference. Please let us know if we may proceed.



Current Schematic - Version 1

Well Name: HOUCK #2E

API / UWI 3004526417	Surface Legal Location 012-029N-010W-P	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0306	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,868.00	Original KB/RT Elevation (ft) 5,881.00	Rx/B to GL (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

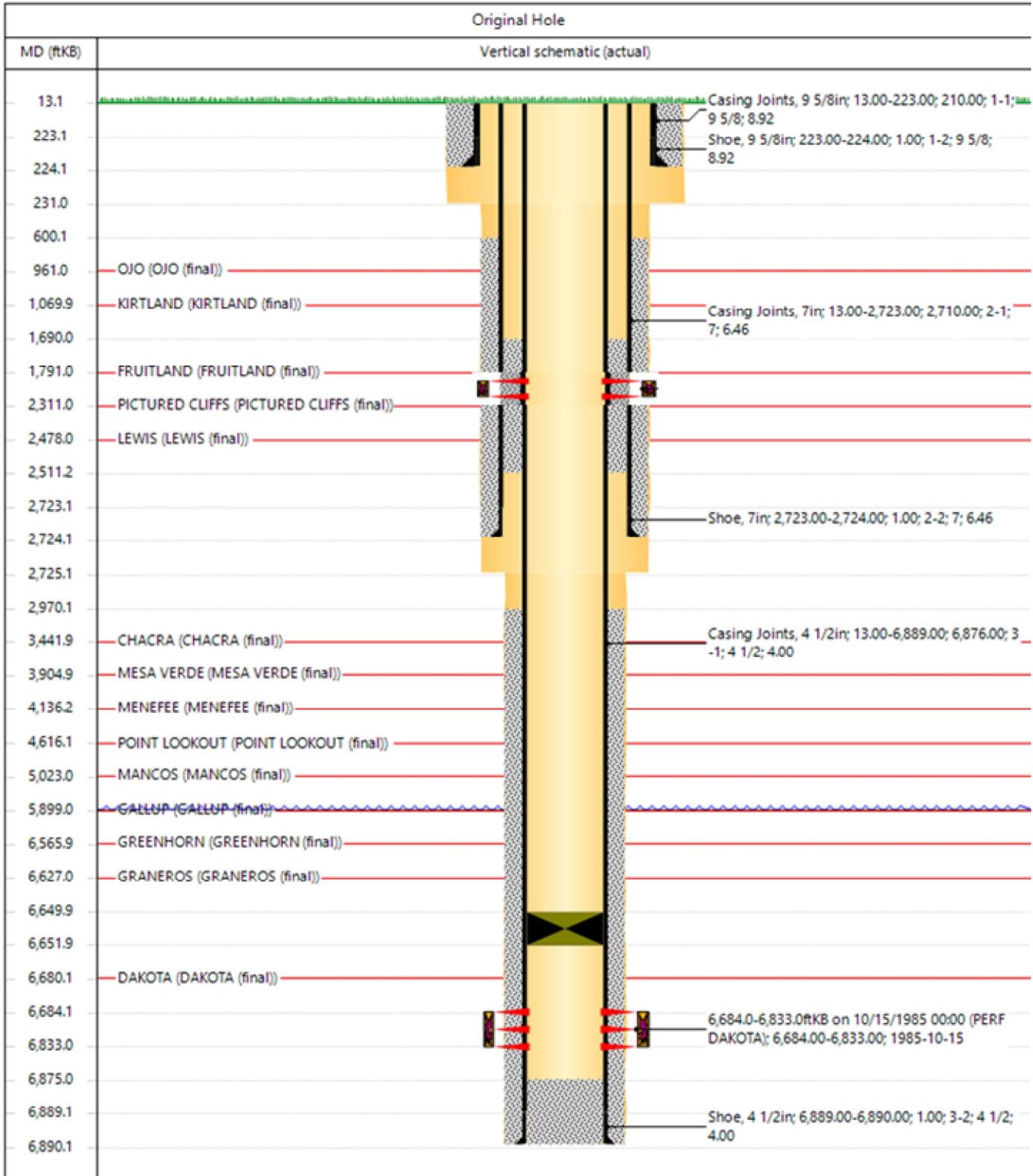




Proposed

Well Name: **HOUCK #2E**

API / UWI 3004526417	Surface Legal Location 012-029N-010W-P	Field Name BASIN DAKOTA (PRORATED GAS)	Route 0306	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,868.00	Original KB/RT Elevation (ft) 5,881.00	KB to GL (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

FORM APPROVED
 OMB No. 1004-0137
 Expires: July 31, 2018

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resvr.,
 Other: Recomplete

5. Lease Serial No.
NMSF077092

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
 NMSF 077092

2. Name of Operator
Hilcorp Energy Company

8. Lease Name and Well No.
Houck 2E

3. Address
382 Road 3100, Aztec, NM 87410

3a. Phone No. (include area code)
(505) 599-3400

9. API Well No.
30-045-26417

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface
P (SESE) 1080' FSL & 840' FEL

10. Field and Pool or Exploratory
Basin Fruitland Coal

11. Sec., T., R., M., on Block and Survey or Area
Sec. 12, T29N, R10W LOT 16

12. County or Parish
San Juan

13. State
New Mexico

At top prod. Interval reported below

At total depth

14. Date Spudded
6/27/1985

15. Date T.D. Reached
7/7/1985

16. Date Completed **10/23/2023**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5868' GL

18. Total Depth:
6890'

19. Plug Back T.D.:
6875'

20. Depth Bridge Plug Set: MD
 TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey? No Yes (Submit copy)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
12.25"	9.625" J-55	36		224'		150			
8.75"	7" K-55	20		2724'		285			
6.25"	4.5" K-55	10.5/11.6		6890'		355			

23. Casing and Liner Record (Report all strings set in well)

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375"	6730'							

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Csg Leak	2991'	3001'				Squeezed
B) Squeeze Holes	2500'	2501'	2 SPF	0.46"	2	Squeezed
C) Fruitland Coal	2130'	2230'	3 SPF	0.34"	72	Open
D) Fruitland Coal	2286'	2310'	3 SPF	0.34"	72	Open

Depth Interval	Amount and Type of Material
Csg Leak (2991'-3001')	MIX & PMP 17 SXS (4 BBLs) OF 14.6 PPG, 1.37 YLD, TYPE 3 CMT & DISP W/10 BBL FW.
Squeeze Holes (2500'-2501')	PMP 3 BBL FW AHEAD T/ENSURE CIRC. MIX & PMP 75 SX (18.2) BBLs OF 14.6#, 1.37 YLD, 6.64 GPS MIX WATER. DISP W/9 BBL FW
FRUITLAND COAL (2130'-2230')	FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 672 BBLs TOTAL ACID: 750-GAL TOTAL SLICKWATER: 385 BBLs TOTAL LINER GEL: 269 BBLs TOTAL 100 MESH: 4,688 LBS TOTAL 20/40 SAND: 86,447 LBS TOTAL N2: 687,000 SCF.
FRUITLAND COAL (2286'-2310')	FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 697 BBLs TOTAL ACID: 750-GAL TOTAL SLICKWATER: 383 BBLs TOTAL L-FRAC: 296 BBLs TOTAL 100 MESH: 5,014 BBLs TOTAL 20/40 SAND: 76,634 LBS TOTAL N2: 703,000 SCF.

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/23/2023			➔	0	22	0			Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
30/64"	SI 60	SI 75	➔	0	22	0		Producing	

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			➔						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		➔						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			➔						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		➔						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			██████████						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			██████████						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			██████████						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			██████████						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo	961'	1070'	White, cr-gr ss	Ojo Alamo	961'
Kirtland	1070'	1791'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	1070'
Fruitland	1791'	2311'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	1791'
Pictured Cliffs	2311'	2478'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	2311'
Lewis	2478'	3442'	Shale w/ siltstone stingers	Lewis	2478'
Chacra	3442'	'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3442'
Menefee	4136'	4616'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4136'
Point Lookout	4616'	5023'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4616'
Mancos	5023'	5899'	Dark gry carb sh.	Mancos	5023'
Gallup	5899'	6566'	Lt. gry to brn calc carb micac gluac silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	5899'
Greenhorn	6566'	6627'	Highly calc gry sh w/ thin lmst.	Greenhorn	6566'
Graneros	6627'	6680'	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	6627'
Dakota	6680'		Lt to dark gry foss carb sl calc sl sitty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6680'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	'

32. Additional remarks (include plugging procedure):

**Well now producing as a FC/DK Commingle under DHC 5327
FC # NMSF 077092**

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Amanda Walker Title Operations/Regulatory Technician - Sr.
 Signature  Date 11/13/2023

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.

Mandi Walker

From: blm-afmss-notifications@blm.gov
Sent: Tuesday, November 14, 2023 12:18 PM
To: Mandi Walker
Subject: [EXTERNAL] Well Name: HOUCK, Well Number: 2E, Notification of Well Completion Acceptance

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

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **HILCORP ENERGY COMPANY**
- Well Name: **HOUCK**
- Well Number: **2E**
- US Well Number: **3004526417**
- Well Completion Report Id: **WCR2023111490168**

This notification is automatically generated. Please do not reply to this message as this account is not monitored.

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 285432

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 285432
	Action Type: [C-104] Completion Packet (C-104C)

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.

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 285432

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 285432
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	None	11/16/2023