

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

Form C-104  
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

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

II. <sup>10</sup> Surface Location

UI or lot no. P	Section 12	Township 29N	Range 10W	Lot Idn 16	Feet from the 1080	North/South Line South	Feet from the 840	East/West Line East	County San Juan
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<sup>11</sup> 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.
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code F		<sup>14</sup> Gas Connection Date		<sup>15</sup> C-129 Permit Number		<sup>16</sup> C-129 Effective Date		<sup>17</sup> C-129 Expiration Date

III. Oil and Gas Transporters


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

IV. Well Completion Data

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

V. Well Test Data

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

<sup>42</sup> 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: 	OIL CONSERVATION DIVISION	
Printed name: Amanda Walker	Approved by: Sarah McGrath	
Title: Operations Regulatory Tech Sr.	Title: Petroleum Specialist - A	
E-mail Address: mwalker@hilcorp.com	Approval Date: 11/16/2023	
Date: 11/13/2023	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 ON TOP 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.

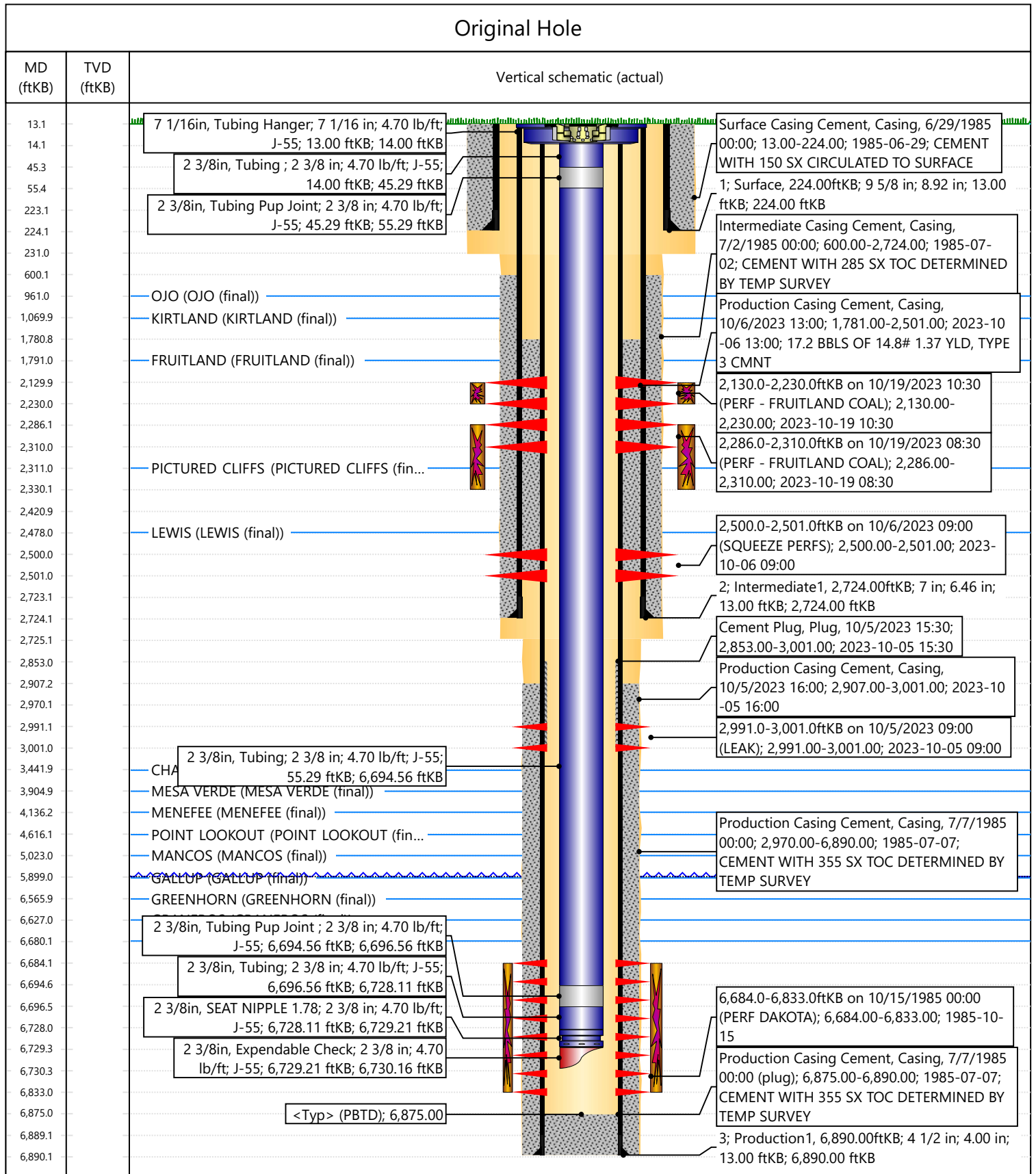
\*WELL NOW PRODUCING AS A FC/DK COMMINGLE\*



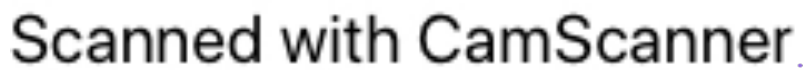
## Current Schematic - Version 3

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)	









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

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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](mailto:krennick@blm.gov)>  
Sent: Wednesday, October 11, 2023 2:52 PM



To: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>; Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>;  
Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: Re: [EXTERNAL] 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](mailto:krennick@blm.gov)  
Mobile & Text: 505.497.0019

---

From: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>  
Sent: Wednesday, October 11, 2023 1:45 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)>; Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto: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

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

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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](mailto:krennick@blm.gov)  
Mobile & Text: 505.497.0019

---

From: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>  
Sent: Wednesday, October 11, 2023 12:48 PM  
To: Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>; Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: 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](mailto:monica.kuehling@emnrd.nm.gov)>  
Sent: Thursday, October 5, 2023 4:16 PM  
To: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>; Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: RE: [EXTERNAL] Houck 2E (3004526417)

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

---

From: Rennick, Kenneth G <[krennick@blm.gov](mailto: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](mailto:krennick@blm.gov)  
Mobile & Text: 505.497.0019



From: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>

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

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

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

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

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

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

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

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

---

From: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>

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

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

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

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

Bradenhead and intermediate are both 0 psi.

---

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

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Amanda What is bradenhead and intermediate pressures - Monica

---

From: Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>  
Sent: Wednesday, October 4, 2023 8:13 AM  
To: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>; Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>; Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: Re: [EXTERNAL] 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](mailto:krennick@blm.gov)  
Mobile & Text: 505.497.0019

---

From: Amanda Atencio <[Amanda.Atencio@hilcorp.com](mailto:Amanda.Atencio@hilcorp.com)>  
Sent: Wednesday, October 4, 2023 8:04 AM  
To: Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>; Rennick, Kenneth G <[krennick@blm.gov](mailto:krennick@blm.gov)>; Kade, Matthew H <[mkade@blm.gov](mailto:mkade@blm.gov)>  
Cc: Mandi Walker <[mwalker@hilcorp.com](mailto:mwalker@hilcorp.com)>  
Subject: [EXTERNAL] 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 recompleat 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'.

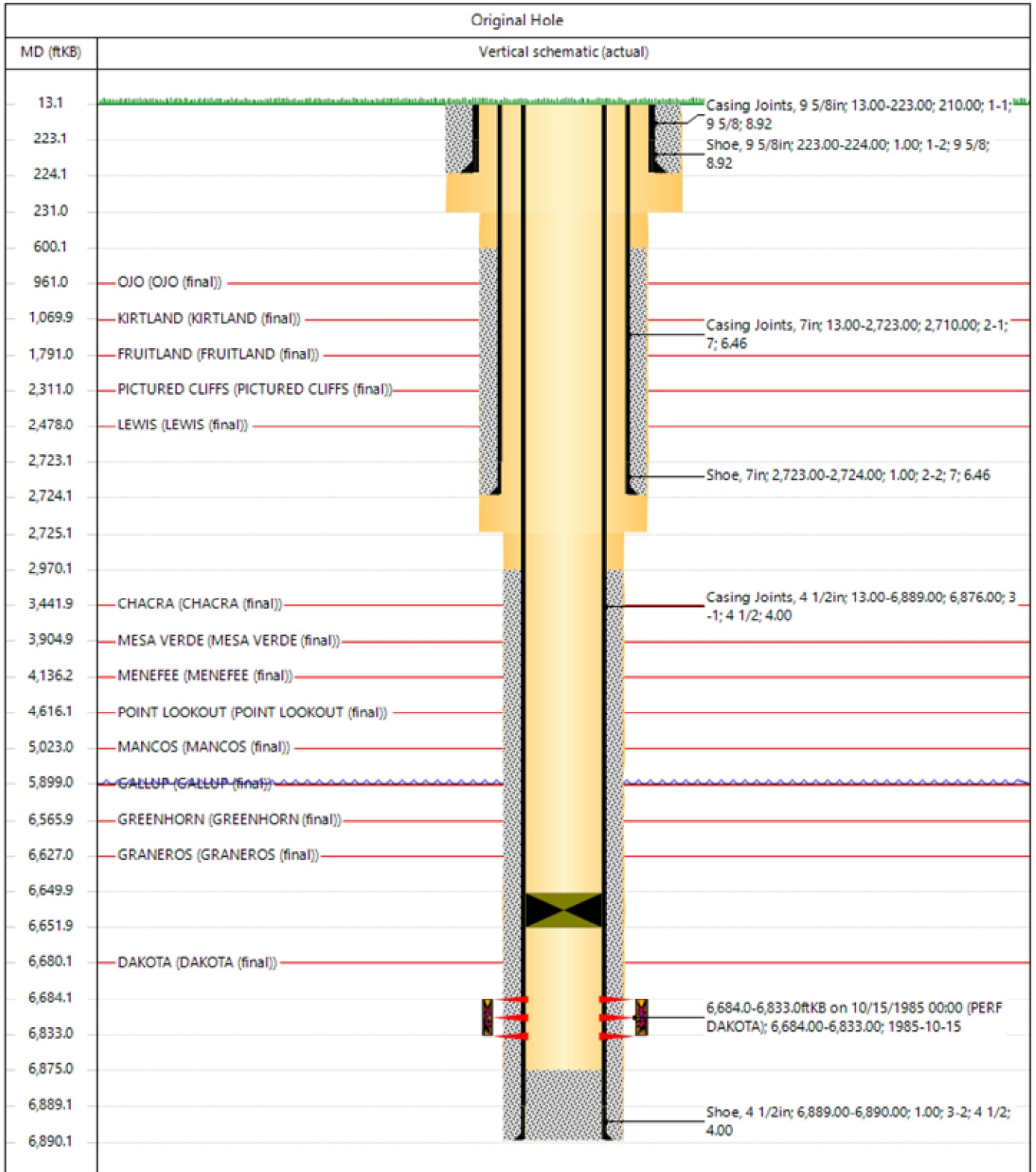
We would like request approval to shoot squeeze holes at +/- 2500', set a cement retainer and circulate cement up the 4-1/2" x 7" casing annulus to achieve sufficient cement coverage across the Fruitland Coal interval. Current and proposed well schematics are below for reference. Please let us know if 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	RxS to GL (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	



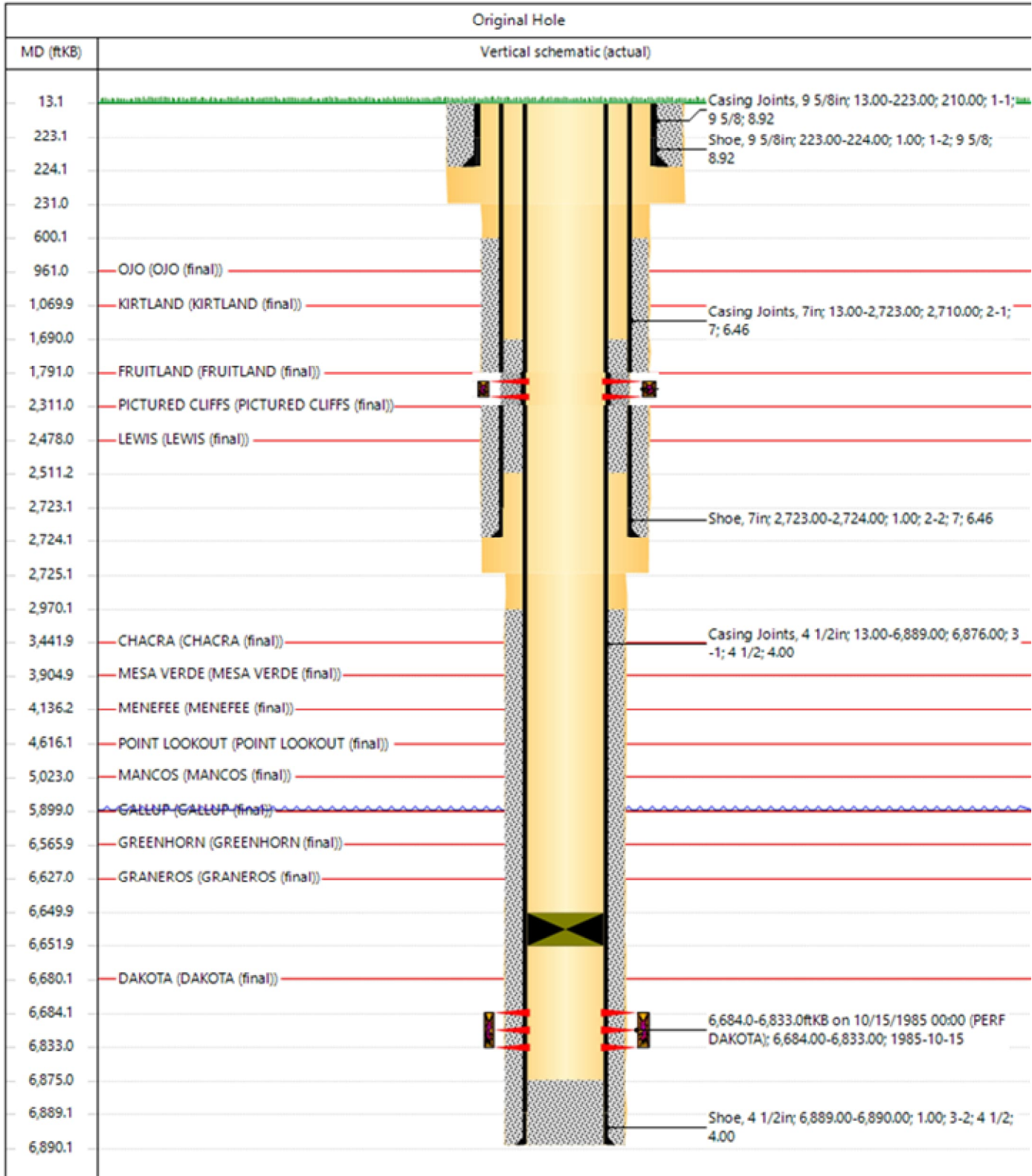




# Proposed

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	RKB to GL (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	



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Page 1/1

Report Printed: 10/3/2023

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2018

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other										5. Lease Serial No. <b>NMSF077092</b>					
b. Type of Completion: <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff. Resvr.,										6. If Indian, Allottee or Tribe Name					
Other: <b>Recomplete</b>										7. Unit or CA Agreement Name and No. NMSF 077092					
2. Name of Operator <b>Hilcorp Energy Company</b>										8. Lease Name and Well No. <b>Houck 2E</b>					
3. Address <b>382 Road 3100, Aztec, NM 87410</b>						3a. Phone No. (include area code) <b>(505) 599-3400</b>				9. API Well No. <b>30-045-26417</b>					
4. Location of Well (Report location clearly and in accordance with Federal requirements)*												10. Field and Pool or Exploratory <b>Basin Fruitland Coal</b>			
At surface <b>P (SESE) 1080' FSL &amp; 840' FEL</b>												11. Sec., T., R., M., on Block and Survey or Area <b>Sec. 12, T29N, R10W LOT 16</b>			
At top prod. Interval reported below												12. County or Parish <b>San Juan</b>		13. State <b>New Mexico</b>	
At total depth												17. Elevations (DF, RKB, RT, GL)* <b>5868' GL</b>			
14. Date Spudded <b>6/27/1985</b>				15. Date T.D. Reached <b>7/7/1985</b>				16. Date Completed <b>10/23/2023</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.							
18. Total Depth: <b>6890'</b>						19. Plug Back T.D.: <b>6875'</b>				20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>CBL</b>								22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)							
23. Casing and Liner Record (Report all strings set in well)															
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & 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									
24. Tubing Record															
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)							
2.375"	6730'														
25. Producing Intervals												26. Perforation Record			
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							
27. Acid, Fracture, Treatment, Cement Squeeze, etc.															
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.												
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						
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							
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):	31. Formation (Log) Markers
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.	

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



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  
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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