

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 30-045-09435	⁵ Pool Name Basin Fruitland Coal	⁶ Pool Code 71629
⁷ Property Code 318563	⁸ Property Name Howell C	⁹ Well Number 4

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
N	18	30N	08W		928	South	927	West	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 9/28/1957	²² Ready Date 10/28/2023	²³ TD 5366'	²⁴ PBTD 5350'	²⁵ Perforations 2866' – 3052'	²⁶ DHC, MC DHC 5323
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12 1/4"	10 3/4", 32.75#, SW	173'	150 sx		
9 7/8"	7 5/8", 26.4#, J-55	3348'	250 sx		
6 3/4"	5 1/2", 15.5#, J-55	TOL: 3256' BOL: 5360'	300 sx		
	2 3/8", 4.7#, J-55	5300'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date 10/28/2023	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure SI 87	³⁶ Csg. Pressure SI 87
³⁷ Choke Size 28/64"	³⁸ Oil 0	³⁹ Water 0	⁴⁰ Gas 131	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: 11/15/2023	OIL CONSERVATION DIVISION	
	Approved by: Sarah McGrath	
	Title: Petroleum Specialist - A	
	Approval Date: 11/15/2023	
	Phone: 346-237-2177	

Well Name: HOWELL C	Well Location: T30N / R8W / SEC 18 / SESW / 36.806364 / -107.71948	County or Parish/State: SAN JUAN / NM
Well Number: 4	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078596	Unit or CA Name:	Unit or CA Number: NMNM73453
US Well Number: 3004509435	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2760016

Type of Submission: Subsequent Report

Type of Action: Recompletion

Date Sundry Submitted: 11/06/2023

Time Sundry Submitted: 01:03

Date Operation Actually Began: 09/24/2023

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

SR Attachments

Actual Procedure

Howell_C_4_SR_RC_Writeup_20231106130306.pdf

Well Name: HOWELL C

Well Location: T30N / R8W / SEC 18 / SESW / 36.806364 / -107.71948

County or Parish/State: SAN JUAN / NM

Well Number: 4

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078596

Unit or CA Name:

Unit or CA Number: NMNM73453

US Well Number: 3004509435

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 06, 2023 01:03 PM

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: 11/06/2023

Signature: Matthew Kade

Howell C 4
30-045-09435
NMSF078596
SR Recomplete

9/24/2023: MIRU. RIH

9/27/2023: CK PRESSURES (SITP- 70 PSI. SICP- 70 PSI. SIBHP 0 PSI). ND WH. NU BOP & FT, GOOD TST. PULL HANGER TO SURF. SDFN

9/28/2023: CK PRESSURES (SITP- 50 PSI. SICP- 50 PSI. SIBHP 0 PSI). RU TUBOSCOPE & SCAN TBG OOH. TIH W/SCRAPER. TIH & SET CIBP @ 3770'. ROLL HOLE W/200 BBLs OF FW. SDFN

10/2/2023: CK PRESSURES (SITP- 0 PSI. SICP- 0 PSI. SIBHP 0 PSI). PT CSG T/560 PSI, GOOD TST. RUN CBL F/3770' T/SURF. ATTEMPT MIT W/THOMAS VERMERSCH/NMOCD, LOST 60 PSI, TST FAILED. ND BOP. ND TBG HEAD. NU NEW TBG HEAD, TST VOID T/2000 PSI. GOOD TST. NU BOP & PT CSG T/560 PSI. RAND 2 TSTS. NO TST. SDFN

10/3/2023: CK PRESSURES (SITP- 0 PSI. SICP- 0 PSI. SIBHP 0 PSI). PT CSG T/560 PSI, NO TST. TIH W/PKR & HOLE HUNT. LEAK ISOLATED F/3251' – 3266' (LINER TOP @ 3259'). TOO H W/PKR. SDFN APPROVAL GIVEN TO SQUEEZE LEAK @ LINER TOP (SEE ATTACHED).

10/4/2023: CK PRESSURES (SITP- 0 PSI. SICP- 0 PSI. SIBHP 0 PSI). RU CMT CREW. MIX & PMP 15 SXS, 13.5 PPG, MC500 CMT FROM 3285' TO 3230' TOC, DISP W 12 BBLs OF FW. LD 3 JTS. LOAD HOLE W/5 BBLs OF FW. ATTEMPT TO SZQ, LOCKED UP. SDFN

10/5/2023: CK PRESSURES (SITP- 0 PSI. SICP- 0 PSI. SIBHP 0 PSI). MU BIT & TAG TOC @ 3234'. RU PWR SWVL & DO CMT F/3234' T/3285'. RD SWVL. RUN MIT T/560 PSI F/30 MINS. TST WITNESSED AND PASSED BY THOMAS VERMERSCH/NMOCD. TOO H W/TBG. SDFN

10/6/2023: CK PRESSURES (SITP- 0 PSI. SICP- 0 PSI. SIBHP 0 PSI). RIH & SET CBP @ 3130'. PERF FRUITLAND COAL (2989' – 3052') INTERVAL W/72 SHOTS, 0.34" DIA, 3 SPF. RIH & SET FRAC THRU PLUG @ 2977'. SDFN

10/7/2023: CK PRESSURES (SITP- 0 PSI. SICP- 0 PSI. SIBHP 0 PSI). HYDRO TST FRAC STRING & TIH. EOT @ 2826'. ND BOP. NU FRAC STACK. PT FRAC STACK T/8000 PSI F/30 MINS, GOOD TST. SDFN.

10/18/2023: CK PRESSURES (SITP: VAC SICP: 0 PSI SIBHP: 0 PSI). MIRU FRAC CREWS. FRUITLAND COAL STIMULATION: (2989' TO 3052') STAGE 1 FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 673 BBLs TOTAL ACID: 1000-GAL TOTAL SLICKWATER: 293 BBLs TOTAL L-FRAC: 356 BBLs TOTAL 100 MESH: 5110 BBLs TOTAL 20/40 SAND: 75,608 LBS TOTAL N2: 883,000 SCF. PERF FRUITLAND COAL (2866' – 2968') INTERVAL W/72 SHOTS, 0.34" DIA, 3 SPF. SDFN

10/19/2023: CK PRESSURES (SICP-400 PSI, SITP 1200 PSI, SIBHP – 0 PSI). ND FRAC STACK, NU BOP, & FT, GOOD TST. TOO H W/FRAC STRING. PMP 30 BBL KILL DWN TBG W/10 JTS IN WELL. SDFN

10/20/2023: CK PRESSURES (SITP N/A, SICP 600 PSI, SIBH 0 PSI). RU HYDRO TST, DID NOT FIND ANY BAD TBG. SDFN

10/21/2023: CK PRESSURES (SITP 160 PSI, SICP 600 PSI, SIBH 0 PSI). LAND TBG & PT T/8000 PSI, GOOD TST. ND BOP. NU FRAC STACK & PT, GOOD TST. MIRU FRAC CREW. FRUITLAND COAL STIMULATION: (2866' TO 2968') STAGE 2 FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 912 BBLs TOTAL ACID: 1000-GAL

Howell C 4
30-045-09435
NMSF078596
SR Recomplete

TOTAL SLICKWATER: 807 BBLS TOTAL L-FRAC: 235 BBLS TOTAL 100 MESH: 5041 BBLS TOTAL 20/40 SAND:
91,105 LBS TOTAL N2: 964,000 SCF. SDFN

10/22/2023: CK PRESSURES (SITP 1200PSI, SICP 135 PSI, SIBH 0 PSI). ND FRAC STACK. NU BOP, FT, GOOD
TST. LD 15 JTS. SDFN

10/23/2023: CK PRESSURES (SITP- 900 PSI. SICP- 900 PSI. SIBHP 0 PSI). LD FRAC STRING. MU TRI CONE
BIT & TIH. TAG FILL @ 2967' (10' OF FILL). EST CIRC & CO FILL. DO FRAC THRU PLUG @ 2977'. CONT TIH,
& START DO CBP @ 3130'. SDFN

10/24/2023: CK PRESSURES (SICP- 740 PSI. SIBHP 0 PSI). CONT DO PLUG @ 3130'. CIRC CLEAN. CONT TIH.
CIRC CLEAN. SDFN

10/25/2023: CK PRESSURES (SICP- 500 PSI. SIBHP 0 PSI). TIH & TAG & DO CIBP @ 3770'. CONT TIH HARD
FILL F/5325' T/5334'. TOOH. SDFN

10/26/2023: CK PRESSURES (SITP- 0 PSI . SICP- 250 PSI. SIBHP 0 PSI). TIH & TAG @ 5334'. EST CIRC,
UNABLE TO GET PAST 5334'. RD SWVL. TIH W/163 JTS 2 3/8" 4.7# J-55. EOT @ 5300'. SN @ 5299'. ND
BOP. ND WH. PMP 5 BBLS AHEAD W/5-GAL CORROSION INHIBITOR, DROPPED BALL, PT TBG STRING
T/500 PSI, GOOD TST. POPPED OFF CK @ 800 PSI. UNLOAD FLUID. RDRR. HAND OVER TO OPERATIONS.

WELL NOW PRODUCING AS A FC/MV COMMINGLE

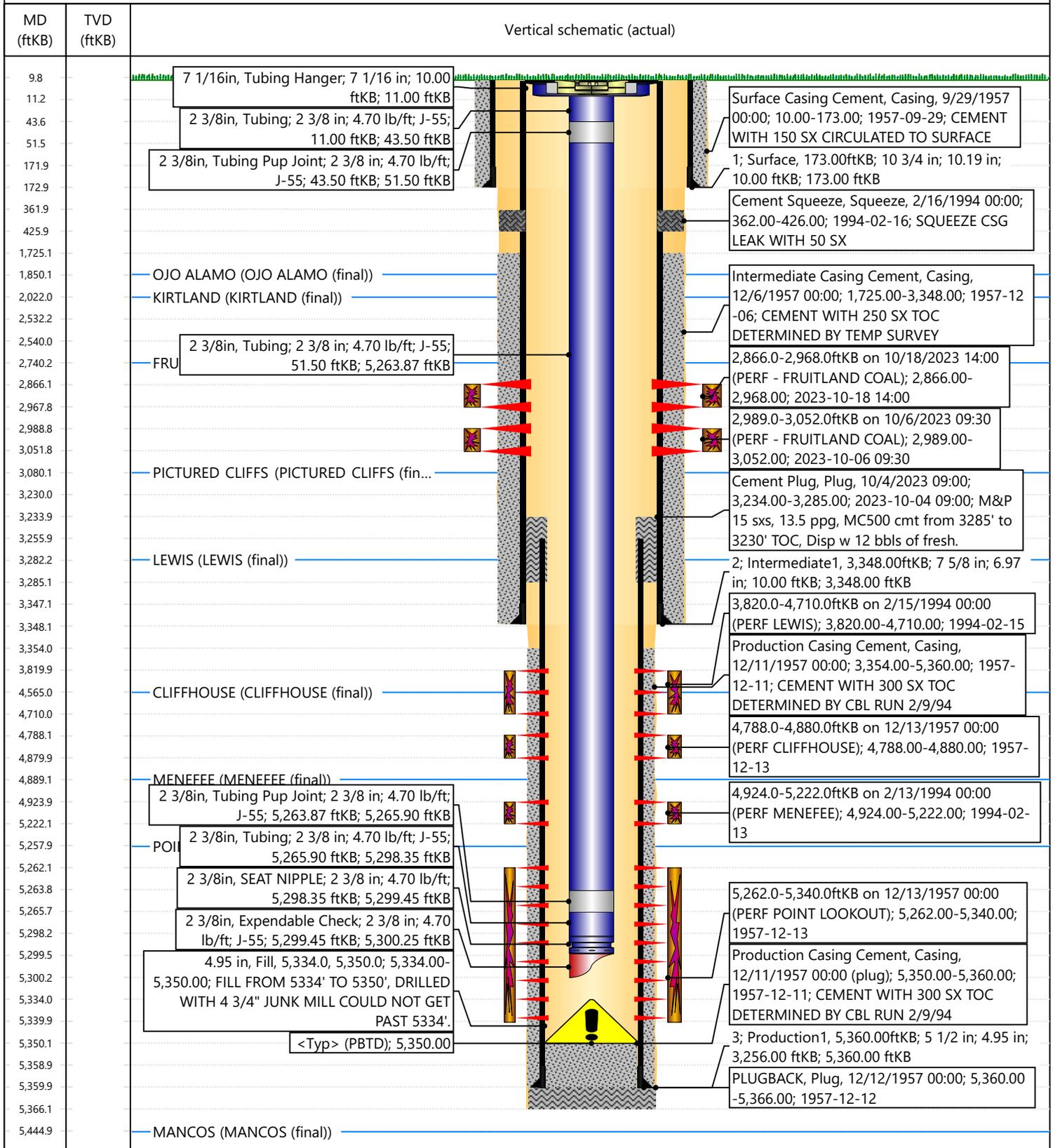


Current Schematic - Version 3

Well Name: **HOWELL C #4**

API / UWI 3004509435	Surface Legal Location 018-030N-008W-M	Field Name BLANCO MV (PRO #0078	Route 0407	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 6,322.00	Original KB/RT Elevation (ft) 6,332.00	RKB to GL (ft) 10.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole



Hi Corp
GC 18-30W-08W
API 30-045-09435

3770' - surface



10-05-2023

CHART NO. MC MP-1000-IHR

Washington

H. J. Hill

CHART PUT ON M TAKEN OFF M

LOCATION Howell C 4

REMARKS Line 1 min. Line 2 20 PSI

10-5-23
Thomas Vennerstein
NINETA

Mandi Walker

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Wednesday, October 4, 2023 10:17 AM
To: Rennick, Kenneth G; Scott Anderson
Cc: Hayden Moser; Clay Padgett; Mandi Walker; JP Knox; Amanda Atencio; Russell Crouch; Shane Smith; Michael Mayfield
Subject: RE: [EXTERNAL] Hilcorp - Howell C 4: FRC recomplete

Categories: NMOCD

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

NMOCD approves the squeeze at liner top – an mit is required after drill out – please notify 24 hours prior to testing.

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: Wednesday, October 4, 2023 8:24 AM
To: Scott Anderson <sanderson@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Hayden Moser <Hayden.Moser@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Russell Crouch <rcrouch@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>
Subject: Re: [EXTERNAL] Hilcorp - Howell C 4: FRC recomplete

Thank you Scott for the information. The procedure is 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: Scott Anderson <sanderson@hilcorp.com>
Sent: Wednesday, October 4, 2023 8:16 AM
To: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>; Rennick, Kenneth G <krennick@blm.gov>
Cc: Hayden Moser <Hayden.Moser@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Russell Crouch <rcrouch@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>
Subject: RE: [EXTERNAL] Hilcorp - Howell C 4: FRC recomplete

Monica and Kenny – As you are aware, we did not pass the MIT on the Howell C 4, but we were able to isolate the hole in casing to the liner top (between 3251-3266'). The CBL across this section shows good coverage, so the leak we are going after is pretty small. The plan for the day is to lay a balanced plug across the hole/liner top, apply pressure to squeeze the hole with cement and let it set. We will then drill out and re-pressure test. Please let me know if you have any questions. Thank you!

Scott Anderson
San Juan North – Operations Engineer
Hilcorp Energy Company
W: 713-289-2772
C: 248-761-3965

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Monday, October 2, 2023 3:28 PM
To: Rennick, Kenneth G <krennick@blm.gov>; Scott Anderson <sanderson@hilcorp.com>
Cc: Hayden Moser <Hayden.Moser@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Russell Crouch <rcrouch@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>
Subject: RE: [EXTERNAL] Hilcorp - Howell C 4: FRC recomplete

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

NMOCD approves continuing with recomplete into the Fruitland Coal formation through perforations from 2867 to 3051

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: Monday, October 2, 2023 12:54 PM
To: Scott Anderson <sanderson@hilcorp.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Hayden Moser <Hayden.Moser@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Russell Crouch <rcrouch@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>
Subject: Re: [EXTERNAL] Hilcorp - Howell C 4: FRC recomplete

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: Scott Anderson <sanderson@hilcorp.com>
Sent: Monday, October 2, 2023 12:26 PM
To: Kuehling, Monica, EMNRD <monica.kuehling@state.nm.us>; Rennick, Kenneth G <krennick@blm.gov>
Cc: Hayden Moser <Hayden.Moser@hilcorp.com>; Clay Padgett <cpadgett@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>; JP Knox <jknox@hilcorp.com>; Amanda Atencio <Amanda.Atencio@hilcorp.com>; Russell Crouch <rcrouch@hilcorp.com>; Shane Smith <Shane.Smith@hilcorp.com>; Michael Mayfield <mmayfield@hilcorp.com>
Subject: [EXTERNAL] Hilcorp - Howell C 4: FRC recomplete

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

Monica, Kenny – Attached is the new CBL on the Howell C 4 (API: 3004509435). The cement quality on the Howell C 4 is excellent and isolates the coal interval both above and below. Based on the log we have narrowed our perf scheme and would now like to perforate 2867-3051' (vs. the NOI'd depth of 2740-3080'). The MIT was not successful this morning,

however we need to change the wellhead out on this well and if that proves to be the reason for the leak, I will let you know and schedule the retest. Once we have a passing MIT we would like to proceed with perforating and fracing the well. Thank you!

Scott Anderson
San Juan North – Operations Engineer
Hilcorp Energy Company
W: 713-289-2772
C: 248-761-3965

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While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

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.
NMSF078596

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
 NM 87149

2. Name of Operator
Hilcorp Energy Company

8. Lease Name and Well No.
Howell C 4

3. Address **382 Road 3100, Aztec, NM 87410**
 3a. Phone No. (include area code) **(505) 599-3400**

9. API Well No.
30-045-09435

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

10. Field and Pool or Exploratory
Fruitland Coal

At surface
N (SESW) 928' FSL & 927' FWL

11. Sec., T., R., M., on Block and Survey or Area
Sec. 18, T30N, R08W

At top prod. Interval reported below

12. County or Parish **San Juan**
 13. State **New Mexico**

At total depth
 14. Date Spudded **9/28/1957**
 15. Date T.D. Reached **12/10/1957**
 16. Date Completed **10/28/2023**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6309'

18. Total Depth: **5366'**
 19. Plug Back T.D.: **5350'**

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)

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
12.25"	10.75" SW	32.75		173'		150			
9.875"	7.625" J55	26.4		3348'		250			
6.75"	5.5" J55	15.5	3256'	5360'		300			

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"	5300'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Csg Leak	3251'	3266'				Squeezed
B) Fruitland Coal	2866'	3052'	3 SPF	0.34"	144	Open
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
Csg Leak	MIX & PMP 15 SXS, 13.5 PPG, MC500 CMT
Upper Fruitland (2866' - 2968')	FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 912 BBLs TOTAL ACID: 1000-GAL TOTAL SLICKWATER: 807 BBLs TOTAL L-FRAC: 235 BBLs TOTAL 100 MESH: 5041 BBLs TOTAL 20/40 SAND: 91,105 LBS TOTAL N2: 964,000 SCF.
Lower Fruitland (2989' - 3052')	FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 673 BBLs TOTAL ACID: 1000-GAL TOTAL SLICKWATER: 293 BBLs TOTAL L-FRAC: 356 BBLs TOTAL 100 MESH: 5110 BBLs TOTAL 20/40 SAND: 75,608 LBS TOTAL N2: 883,000 SCF.

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

Depth Interval	Amount and Type of Material
Csg Leak	MIX & PMP 15 SXS, 13.5 PPG, MC500 CMT
Upper Fruitland (2866' - 2968')	FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 912 BBLs TOTAL ACID: 1000-GAL TOTAL SLICKWATER: 807 BBLs TOTAL L-FRAC: 235 BBLs TOTAL 100 MESH: 5041 BBLs TOTAL 20/40 SAND: 91,105 LBS TOTAL N2: 964,000 SCF.
Lower Fruitland (2989' - 3052')	FRAC AT 50 BPM W/ 70 Q N2 FOAM. TOTAL LOAD: 673 BBLs TOTAL ACID: 1000-GAL TOTAL SLICKWATER: 293 BBLs TOTAL L-FRAC: 356 BBLs TOTAL 100 MESH: 5110 BBLs TOTAL 20/40 SAND: 75,608 LBS TOTAL N2: 883,000 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
10/28/2023			→	0	131	0			Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
28/64"	SI 87	SI 87	→	0	131	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):

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	1850'	2022'	White, cr-gr ss	Ojo Alamo	1850'
Kirtland	2022'	2740'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2022'
Fruitland	2740'	3080'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2740'
Pictured Cliffs	3080'	3282'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	3080'
Lewis	3282'	'	Shale w/ siltstone stingers	Lewis	3282'
Chacra	'	4565'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	'
Cliffhouse	4565'	4889'	Light gry, med-fine gr ss, carb sh & coal	Mesaverde	4565'
Menefee	4889'	5258'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4889'
Point Lookout	5258'	5445'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	5258'
Mancos	5445'	'	Dark gry carb sh.	Mancos	5445'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	'

32. Additional remarks (include plugging procedure):

**This well is now producing as a FC/Mvcommingle under DHC 5323
FC# NM 87149**

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 11/6/2023

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: Monday, November 6, 2023 4:27 PM
To: Mandi Walker
Subject: [EXTERNAL] Well Name: HOWELL C, Well Number: 4, 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: **HOWELL C**
- Well Number: **4**
- US Well Number: **3004509435**
- Well Completion Report Id: **WCR2023110690001**

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 285794

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 285794
	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.

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State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 285794

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 285794
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	None	11/15/2023