

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

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 30-045-33836	⁵ Pool Name Blanco-Mesaverde (Prorated Gas)		⁶ Pool Code 72319
⁷ Property Code 318745	⁸ Property Name Sunray D		⁹ Well Number 2F

II. ¹⁰ Surface Location

UI or lot no. A	Section 21	Township 30N	Range 10W	Lot Idn 1	Feet from the 862	North/South Line North	Feet from the 1270	East/West Line East	County San Juan
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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

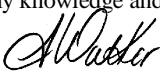
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	Western Refinery	O
151618	Enterprise	G

IV. Well Completion Data

²¹ Spud Date 10/11/2006	²² Ready Date 4/23/2023	²³ TD 7553'	²⁴ PBTD 7552'	²⁵ Perforations 4865' – 5561'	²⁶ DHC, MC DHC-5277
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	
12 1/4"		9 5/8", 32.3#, H-40		227'	
8 3/4"		7", 20#, J-55		3228'	
6 1/4"		4 1/2", 10.5#, J-55		7552'	
		2 3/8", 4.7#, J-55		7409'	

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date 4/23/2023	³³ Test Date 4/23/2023	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure SI - 489	³⁶ Csg. Pressure SI - 495
³⁷ Choke Size 20/64	³⁸ Oil 0 bopd	³⁹ Water 0 bwpd	⁴⁰ Gas 34 mcfd		⁴¹ Test Method N/A

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: 		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: 05/17/2023	
Date: 5/5/2023	Phone: 346-237-2177		

Well Name: SUNRAY D	Well Location: T30N / R10W / SEC 21 / NENE /	County or Parish/State: SAN JUAN / NM
Well Number: 2F	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078204	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004533836	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Subsequent Report

Sundry ID: 2729377

Type of Submission: Subsequent Report

Type of Action: Recompletion

Date Sundry Submitted: 05/05/2023

Time Sundry Submitted: 09:57

Date Operation Actually Began: 03/20/2023

Actual Procedure: The following well has been recompleted into the Mesaverde as of 4/23/2023 and is now producing as a DHC with the existing Dakota. Please see the attached for the recompletion operations.

SR Attachments

Actual Procedure

Sunray_D_2F_SR_RC_Writeup_20230505095742.pdf

Well Name: SUNRAY D	Well Location: T30N / R10W / SEC 21 / NENE /	County or Parish/State: SAN JUAN / NM
Well Number: 2F	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078204	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004533836	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: MAY 05, 2023 09:57 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: KENNETH G RENNICK
BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742
BLM POC Email Address: krennick@blm.gov
Disposition: Accepted
Disposition Date: 05/08/2023
Signature: Kenneth Rennick

Sunray D 2F
30-045-33836
NMSF078204
SR: Recompletion

3/20/2023: MIRU. CK WELL PRESSURES (SICP-320, SITP-320, SIICP-400, SIBHP-10). ND WH & NU BOP & TST, GOOD TST. RU SCANNER & SCAN TBG OOH. JT 61 PARTED ABV BOTTOM, 180 JTS OF FISH LEFT. SDFN.

3/21/2023: CK WELL PRESSURES (SICP-300, SITP-NA, SIICP-35, SIBHP-0). MU GRAPPLE. ENGAGE TOF @ 2049'. TOO H W/73 JTS. SDFN.

3/22/2023: CK WELL PRESSURES (SICP-0, SITP-0, SIICP-10, SIBHP-0). TOO H W/REMAINING FISH 107 JTS. MU BIT & STRING MILL & TIH MAKE SCRAPER RUN. TIH W/CIBP & SET @ 7260'. DISPLACE HOLE W/110 BBLS TREATED H2O. PRESSURE UP T/550 PSI, F/15 MINS, GOOD TST. BLEED OFF PSI. SDFN.

3/23/2023: CK WELL PRESSURES (SICP-0, SITP-0, SIICP-5, SIBHP-0). ATTEMPT TOP UP CSG W/52 BBLS FW, NEGATIVE. SHOULD HAVE TAKEN LESS THAN 2.5 BBLS TO TOP UP. TIH & TAG CIBP @ 7260'. CALL MADE TO MONICA KUEHLING/NMOC D TO CANCEL MIT AND INFORM THAT ISOLATION PLUG IS LEAKING AND WILL BE SETTING A SECOND CIBP ON TOP OF FIRST CIBP. APPROVAL RECEIVED. CALL MADE TO CMT LINE W/BLM. MU & TIH W/CIBP & SET @ 7256'. FILL W/103 BBLS FW & CIRC 15 MINS. PT CSG T/550 PSI F/20 MINS, OK. PT CSG T/520 PSI F/20 MINS, PRESSURE INCREASED T/560. SDFN.

3/24/2023: CK WELL PRESSURES (SICP-0, SITP-0, SIICP-0, SIBHP-0). FILL HOLE W/0.5 BBLS FW. RU TESTER. PERFORM MIT T/560 PSI FOR 30 MINS, GOOD TST. WITNESSED BY JOHN DURHAM/NMOC D. MU SCBP & SET @ 5611'. NU 10K FRAC STACK. RU TESTER & TST T/5K TBG HEAD & 10K FRAC STACK T/3800 PSI. TST GOOD. RDRR. WAIT ON FRAC.

4/19/2023: MIRU FRAC CREW. RIH W/PERFORATING TOOLS. PERF POINT LOOKOUT (5246' – 5561') AS FOLLOWS: 5560-5561- 2 SHOTS; 5538-5539- 2 SHOTS; 5530-5531- 3 SHOTS; 5501-5502- 2 SHOTS; 5492-5493- 2 SHOTS; 5485-5486- 2 SHOTS; 5437-5439- 3 SHOTS; 5394-5395- 2 SHOTS; 5354-5356- 3 SHOTS; 5314- 5315- 2 SHOTS; 5292- 5293- 2 SHOTS; 5283- 5285- 3 SHOTS; 5273-5275- 3 SHOTS; 5260- 5262- 3 SHOTS; 5252-5253- 2 SHOTS; 5246-5247 2 SHOTS. RD WL. PT FLUID LINES, GOOD TST. STIMULATE POINT LOOKOUT (5246'- 5561') AS FOLLOWS: FRAC ZONE WITH 1040 BBLS OF 70 Q FOAM AT 60 BPM. PROPPANT: 108,790 LBS. OF PREMIUM 20/40 SAND. RU WL. RIH & SET FRAC PLUG @ 5200'. PERF MENE FEE (4865'- 5149') AS FOLLOWS: 5146-5149- 4 SHOTS; 5054-5057- 4 SHOTS; 5046-5048- 3 SHOTS; 5026-5029- 4 SHOTS; 5020-5022- 3 SHOTS; 4919-4922- 4 SHOTS; 4880-4882- 3 SHOTS; 4865-4869- 5 SHOTS. RD WL. STIMULATE MENE FEE (4865' – 5149') AS FOLLOWS: FRAC ZONE WITH 1168 BBLS OF 70 Q FOAM AT 60 BPM. PROPPANT: 145,454 LBS. OF PREMIUM 20/40 SAND. SET KILL PLUG @ 4755'. PT PLUG, GOOD TST. RD FRAC CREW. WAIT ON CLEANOUT.

4/20/2023: MIRU. CK WELL PRESSURES (SITP- 0 PSI. SICP- 0 PSI. SIBHP 0 PSI). ND FRAC STACK. NU BOP, PT, GOOD TST. TIH & TAG KILL PLUG @ 4755'. RU PWR SWVL & DO KILL PLUG. SDFN.

4/21/2023: CK WELL PRESSURES (SITP- 0 PSI. SICP- 360 PSI). TIH & TAG @ 5147'. RU PWR SWVL. CO F/5147' T/PLUG 2. DO PLUG @ 5200'. CONT TIH & TAG @ 5457' (147' OF SAND ABV PLUG). CO TO PLUG 3 @ 5611' & DO. CONT TIH & TAG @ 5957'. CO T/7226'. TOO H W/TBG ABV PERFS. EOT @ 4847'. SDFN.

Sunray D 2F
30-045-33836
NMSF078204
SR: Recompletion

4/22/2023: CK WELL PRESSURES (SITP- 0 PSI. SICP- 550 PSI). TIH & TAG @ 7205' (MADE 20' OF FILL). RU PWR SWVL. EST CIRC CO & TAG PLUG 4 @ 7256' DO. CONT TIH & TAG PLUG 5 @ 7260' DO. CONT CO & TAG @ 7542' (10' OF FILL). CO TO PBTD @ 7552'. RD PWR SWVL & TOO. PU BH & TIH W/233 JTS 2 3/8" 4.7# J-55 TBG. EOT @ 7409'. SN @ 7407'. PBTD @ 7552'. ND BOP & NU WH. PMP 5 BBLS W/5 GAL CORROSION INHIBITOR, DROPPED BALL. PT TBG T/500 PSI, GOOD TST. POPPED OFF CK @ 1120 PSI. HAND OVER TO OPERATIONS. RDRR @ 19:30.



Schematic - Current

Well Name: SUNRAY D #2F

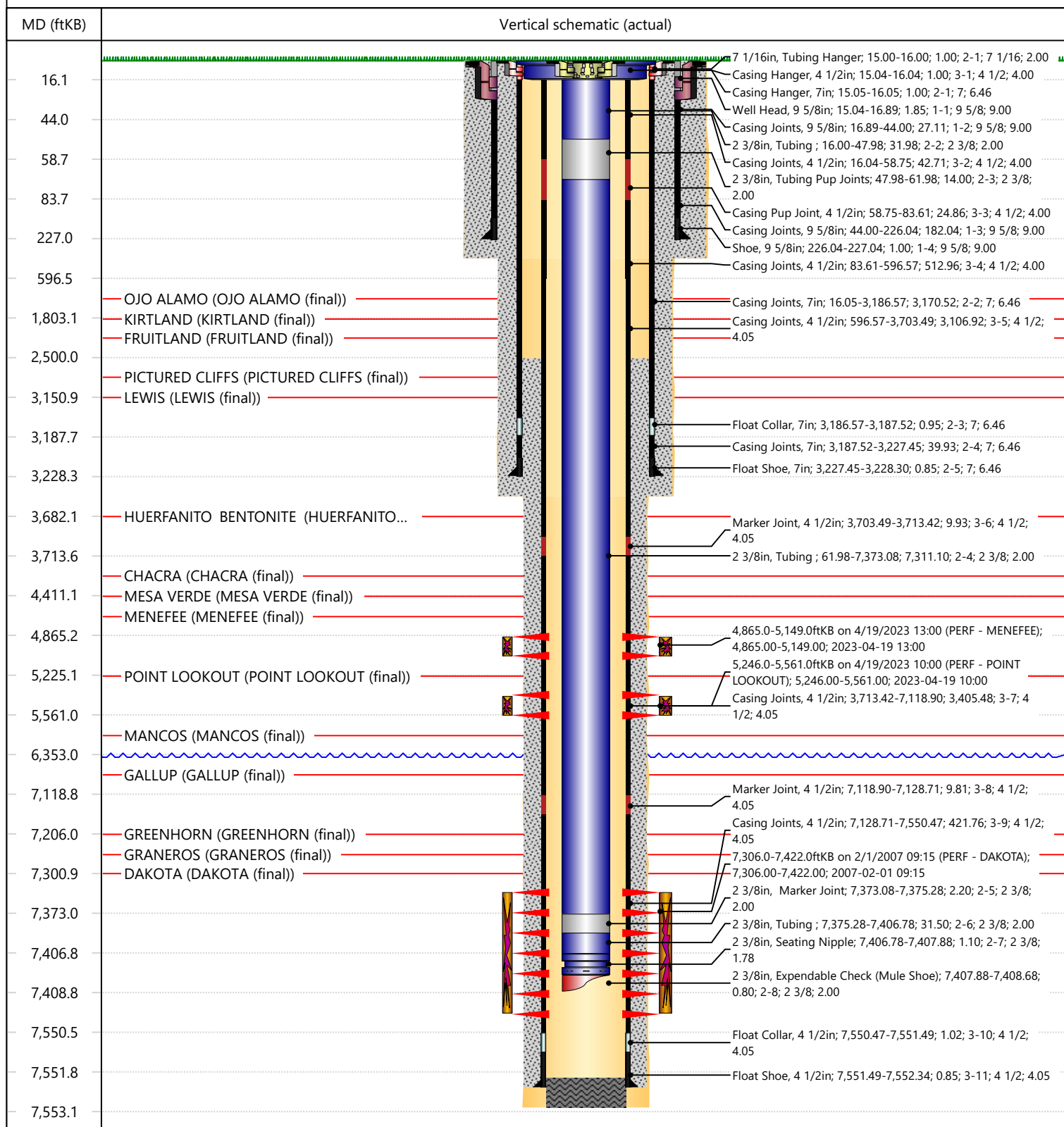
API / UWI 3004533836	Surface Legal Location 021-030N-010W-P	Field Name BASIN DAKOTA (PRORATED GAS)	License No.	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Original KB/RT Elevation (ft) 6,368.00	KB-Ground Distance (ft) 15.00	Original Spud Date 10/11/2006 10:30	Rig Release Date 1/8/2007 17:00	PBTD (All) (ftKB) Original Hole - 7,552.0	Total Depth All (TVD) (ftKB)

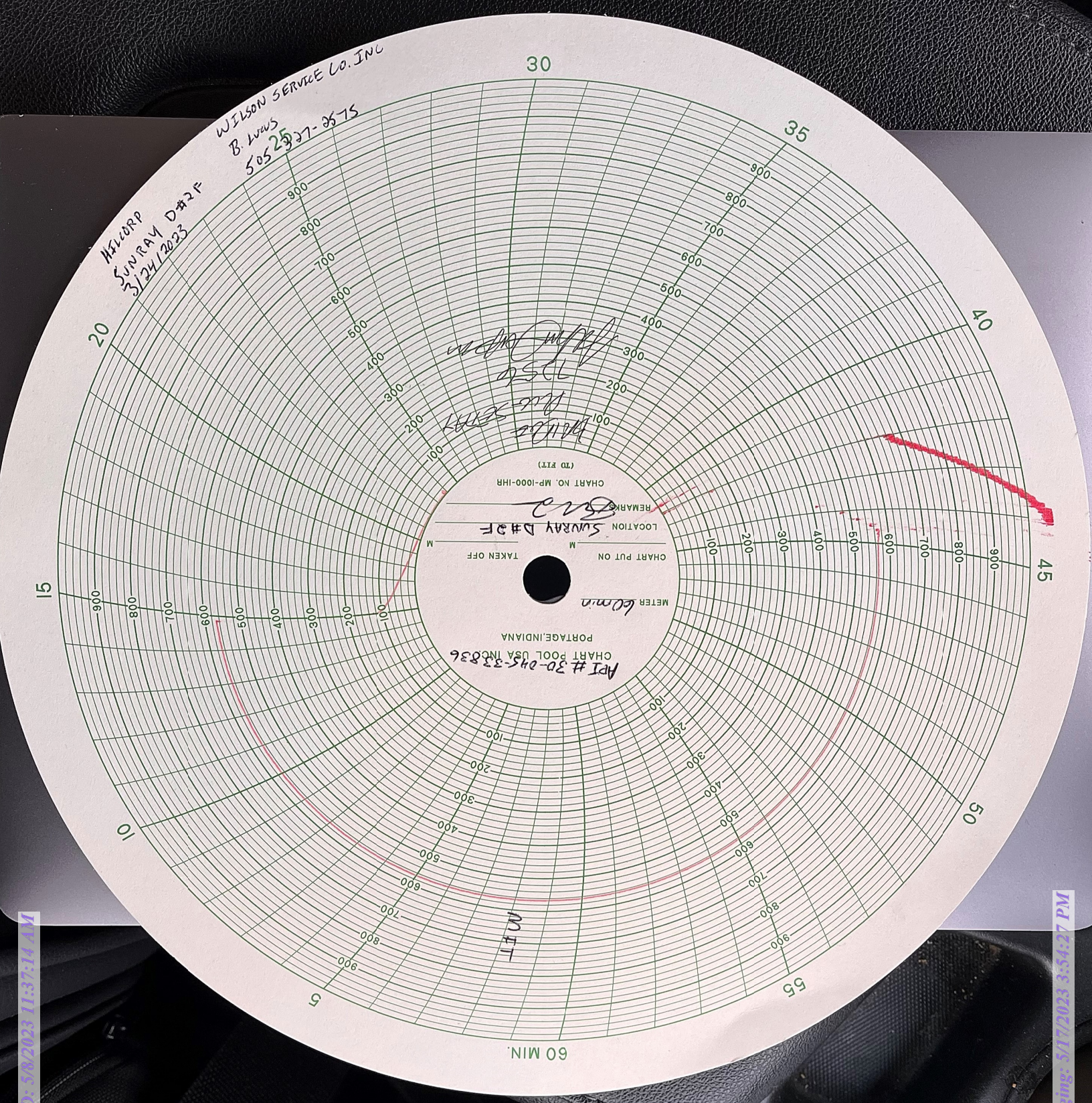
Most Recent Job

Job Category Capital Workover	Primary Job Type RECOMPLETION	Secondary Job Type	Actual Start Date 3/20/2023	End Date
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TD: 7,553.0

Original Hole [VERTICAL]





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 ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,Other: Recompletion

2. Name of Operator

Hilcorp Energy Company

3. Address

382 Road 3100, Aztec, NM 87410

3a. Phone No. (include area code)

(505) 599-3400

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

At surface

Unit A (NENE) 862' FNL & 1270' FEL

At top prod. Interval reported below

At total depth

14. Date Spudded

10/11/2006

15. Date T.D. Reached

1/7/2007

16. Date Completed

4/23/2023☐ D & A☒ Ready to Prod.

18. Total Depth:

7553'

19. Plug Back T.D.:

7552'

20. Depth Bridge Plug Set:

MD

TVD

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

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 Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
12 1/4"	9 5/8" H-40	32.3	0	227'		76			
8 3/4"	7" J-55	20	0	3228'		528			
6 1/4"	4 1/2" J-55	10.5	2500	7552'		325			

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 3/8"	7409'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Menefee	4865'	5149'	1 SPF	0.34	37	Open
B) Point Lookout	5246'	5561'	1 SPF	0.34	37	Open
C)						
D)						

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

Depth Interval	Amount and Type of Material
MENEFEE (4865' – 5149')	FRAC ZONE WITH 1168 BBLs OF 70 Q FOAM AT 60 BPM. PROPPANT: 145,454 LBS. OF PREMIUM 20/40 SAND
POINT LOOKOUT (5246' – 5561')	FRAC ZONE WITH 1168 BBLs OF 70 Q FOAM AT 60 BPM. PROPPANT: 145,454 LBS. OF PREMIUM 20/40 SAND

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
4/23/2023	4/23/2023		➡	0	34	0			Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64	SI - 489	SI - 495	➡	0	34	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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➡						

*(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	1561	1803	White, cr-gr ss	Ojo Alamo	1561
Kirtland	1803	2451	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	1803
Fruitland	2451	2967	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2451
Pictured Cliffs	2967	3151	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	2967
Lewis	3151	3682	Shale w/ siltstone stingers	Lewis	3151
Huerfanito Bentonite	3682	3921	White, waxy chalky bentonite	Huerfanito Bentonite	3682
Chacra	3921	4733	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3921
Menefee	4733	5225	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4733
Point Lookout	5225	5595	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	5225
Mancos	5595	6466	Dark gry carb sh.	Mancos	5595
Gallup	6466	7206	Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	6466
Greenhorn	7206	7249	Highly calc gry sh w/ thin lmst.	Greenhorn	7206
Graneros	7249	7301	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	7249
Dakota	7301	7236'	Lt to dark gry foss carb sl calc sl sitty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	7301
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	0

32. Additional remarks (include plugging procedure):

This well is currently producing as a Mesaverde/Dakota Commingle under DHC 5277

MV #NMSF078204

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)*

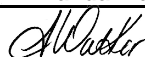
Name (please print)

Amanda Walker

Title

Operations/Regulatory Technician - Sr.

Signature



Date

5/5/2023

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: Friday, May 5, 2023 4:15 PM
To: Mandi Walker
Subject: [EXTERNAL] Well Name: BLANCO WASH FEDERAL, Well Number: 1, 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: **BLANCO WASH FEDERAL**
§ Well Number: **1**
§ US Well Number: **3004507099**
§ Well Completion Report Id: **WCR2023050588048**

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 214609

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 214609
	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
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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 214609

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 214609
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	None	5/17/2023