

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

<div style="display: flex; justify-content: space-between;"><div style="width: 60%;">1a. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other</div><div style="width: 35%;">5. Lease Serial No. NMNM0555078</div></div> <div style="display: flex; justify-content: space-between;"><div style="width: 60%;">b. Type of Completion: <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: <u>Recomplete</u></div><div style="width: 35%;">6. If Indian, Allottee or Tribe Name 7. Unit or CA Agreement Name and No.</div></div>						8. Lease Name and Well No. Helms Federal 1B			
						3. Address 382 Road 3100, Aztec, NM 87410			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1160' FSL & 1060' FWL At top prod. Interval reported below At total depth						10. Field and Pool or Exploratory Farmington Sand			
						11. Sec., T., R., M., on Block and Survey or Area Sec. 22, T30N, R10W			
						12. County or Parish San Juan		13. State New Mexico	
14. Date Spudded 12/22/1999		15. Date T.D. Reached 12/31/1999		16. Date Completed 11/11/2021 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		17. Elevations (DF, RKB, RT, GL)* 6182'			
18. Total Depth: 5544'			19. Plug Back T.D.: 5457'			20. Depth Bridge Plug Set: MD 4566' TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)						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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
12 1/4"	9 5/8" / WC-50	32.3		235'		395			
8 3/4"	7" / J-55	20		1691'		230			
6 1/4"	4 1/2" / J-55	10.5		5459'		378			
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"	1902'								
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Farmington Sands		1713'	1906'	4 spf		0.55	284	OPEN	
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval			Amount and Type of Material						
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
11/11/2021	11/11/2021	1	→	0.7	0.2	0.15	N/A	N/A	Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI-56	SI-200	→	19	5	3.6	N/A	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	1421	1585	White, cr-gr ss	Ojo Alamo	1421
Kirtland	1585	1694	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	1585
Farmington Sand	1694	2187		Farmington Sand	
Fruitland	2187	2778	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2187
Pictured Cliffs	2778	2997	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	2778
Lewis	2997	3756	Shale w/ siltstone stringers	Lewis	2997
Chacra	3756	4288	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3756
Cliff House	4288	4542	Light gry, med-fine gr ss, carb sh & coal	Cliff House	4288
Menefee	4542	5029	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4542
Point Lookout	5029	0	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	5029
Mancos		0	Dark gry carb sh.	Mancos	0
Gallup		0	Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	0
Greenhorn		0	Highly calc gry sh w/ thin lmst.	Greenhorn	0
Graneros		0	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	0
Dakota		0	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	0
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	0

32. Additional remarks (include plugging procedure):

**Well is now producing as a Standalone Farmington Sand. The MV has been TA'd.
Farmington Sand is not in the PA**

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

11/16/2021

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.



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print Report

11/29/2021

Operator Name HILCORP ENERGY COMPANY	Well Name HELMS FEDERAL	Well Number 1B	US Well Number 3004529998
SHL SWSW Sec 22 30N 10W	County SAN JUAN	State NM	Lease Number(s) NMNM0555078, NMNM0555078
Well Type CONVENTIONAL GAS WELL	Well Status Producing Gas Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 99MXJ2373AFEF

Section 1 - General

Well Completion Report Id: 81996

Submission Date: N/A until DB Work

BLM Office: Farmington Field Office

User: AMANDA WALKER

Title: Operations/Regulatory Technician

Federal/Indian: FEDERAL

Lease Number:

Lease Acres:

Agreement in place?: NO

Federal or Indian Agreement:

Agreement Number:

Agreement Name:

APD Operator: HILCORP ENERGY COMPANY

Section 2 - Well Information

Field/Pool or Exploratory: Field/Pool

Pool Name: BLANCO MESAVERDE

Field Name: BLANCO MESAVERDE

Well Type: CONVENTIONAL GAS WELL

Spud Date: 12-22-1999

Date Total Measured Depth Reached: 12-31-1999

Well Class: VERTICAL

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
NACIMIENTO					138	OTHER	Calc fresh water sands (3,350 ppm TDS)
SAN JOSE					0	OTHER	Calc fresh water sands (505 ppm TDS)
OJO ALAMO					1427	OTHER	Calc fresh water sands (430 ppm TDS)

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Completion and Completed Intervals

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	C2	1	NMNM0555078	NMNM0555078	OTHER	Recomplete	PGW	11-11-2021								
00	C2	2	NMNM0555078	NMNM0555078	OTHER	Recomplete	PGW	11-11-2021	11-10-2021	FARMING TON	1713	1906	Y	.55	284	OPEN
00	S1	1	NMNM0555078	NMNM0555078	NEW		TA	09-01-1999		MESAVER DE						OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	C2	1					
00	C2	2	N				
00	S1	1		FRAC			

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
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Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 99MXJ2373AFEF

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	C2	1						
00	C2	2						
00	S1	1			PLUNGER LIFT			

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	C2	1										
00	C2	2										
00	S1	1										

Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

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Aliquot/Lot/Tract	Section	Range	Township	EW-Indicator	EW-Foot	NS-Indicator	NS-Foot	Plug Type	Plug MD (ft)	Plug TVD (ft)	Lease Number	Lease Type	Elevation (MSL)	Longitude	Latitude	County	Meridian	State
SWSW	22	10W	30N	FWL	1060	FSL	1160				NMNM0555078	FEDERAL		-107.877023	36.793592	SAN JUAN	NEW MEXICO PRINCIPAL	NEW MEXICO

Casing, Liner and Tubing

Casing and Liner

Amount Pulled (ft)	Other Joint	Joint	Describe Other Casing Grade	Casing Grade	Wt(lbs/ft)	Casing Size	Bottom Setting Depth (MD)	Top Setting Depth (MD)	Hole Size	Casing String Type	Wellbore Code
		OTHER		A1_NULL	32.3		235	0	12.25	SURFACE	00
		OTHER		A1_NULL	20		1691	0	8.75	INTERMEDIATE	00
		OTHER		A1_NULL	10.5		5459	0	6.25	PRODUCTION	00

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Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume (bbls)
00	SURFACE		N/A		413				413	0	0
00	INTERMEDIATE		N/A		565				565	0	0
00	PRODUCTION		N/A		612				612	1852	0

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00									

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report Completed?	Wellbore Diagram
00	NO	NO	NO	NO	NO	YES

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Operator Certification

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. 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 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 Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: HILCORP ENERGY COMPANY

Signed By: AMANDA WALKER

Title: Operations/Regulatory Technician

Signed on: 11/16/2021

Street Address: 1111 TRAVIS ST.

City: HOUSTON

State: TX

Zip: 77002

Phone: (346)237-2177

Email address: mwalker@hilcorp.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

30045299980000_Helms_Federal_1B_Completion_Report_20211116123831.pdf

Schematic___Current_20211116123835.pdf

Mandi Walker

From: blm-afmss-notifications@blm.gov
Sent: Tuesday, November 23, 2021 4:14 PM
To: Mandi Walker
Subject: [EXTERNAL] Well Name: HELMS FEDERAL, Well Number: 1B, Notification of Well Completion Acceptance

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

§ Operator Name: [HILCORP ENERGY COMPANY](#)
§ Well Name: [HELMS FEDERAL](#)
§ Well Number: [1B](#)
§ US Well Number: [3004529998](#)
§ Well Completion Report Id: [WCR2021112381996](#)

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 64020

ACKNOWLEDGMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 64020
	Action Type: [C-105] Well (Re)Completion (C-105)

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 64020

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 64020
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	1/27/2022