

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

AUG 22 2013

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

Farmington Field Office  
Bureau of Land Management

5. Lease Serial No.  
**NMNM0555078**

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
**Hilcorp Energy Company**

8. Lease Name and Well No.  
**HELMS FEDERAL 1F**

3. Address  
**382 Road 3100, Aztec, NM 87410**

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

9. API Well No.  
**30-045-34049**

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

At surface **Unit I (NE/SE) 2610' FSL & 820' FWL**

At top prod. Interval reported below **Same as above**

At total depth **Same as above**

10. Field and Pool or Exploratory  
**BLANCO MV / BASIN DK**

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 **1/18/2007** 15. Date T.D. Reached **2/25/2007** 16. Date Completed **8/11/2018**  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
**6217' GL**

18. Total Depth: **7400' MD** 19. Plug Back T.D.: **7396' MD**

20. Depth Bridge Plug Set: MD TVD  
 22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit report)  
 Directional Survey?  No  Yes (Submit copy)

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

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	231'		189		0	8 bbls
8 3/4"	7" J-55	20#	0	3074'		535			
6 1/4"	4 1/2" J-55	10.5#		7398'		485			

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"	7298'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Pointlookout	5130'	5312'	1 SPF	0.34	45	Open
B) Menefee	4731'	5030'	1 SPF	0.34	45	Open
C)						
D)						

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

Depth Interval	Amount and Type of Material
5130' - 5312'	FOAM FRAC'D PT LOOKOUT WITH 152,040 LBS 40/70 AND 45,503 GAL SLICKWATER AND 1.37 MILLION SCF N2. 70 QUALITY
4731' - 5030'	FOAM FRAC'D MENELEE WITH 200,560 LBS 40/70 AND 55,766 GAL SLICKWATER AND 1.92 MILLION SCF N2. 70 QUALITY

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
8/11/2018	8/11/2018	1	→	0.083	22.83	1.041	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	
N/A	SI - 522	SI - 533	→	2	548	25 bwpd	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.	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)

AUG 30 2018

FARMINGTON FIELD OFFICE

NMOCD

NMOCD

AUG 31 2018

DISTRICT III

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 (Solid, 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	1478	1615	White, cr-gr ss	Ojo Alamo	1478
Kirtland	1615	2288	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	1615
Fruitland	2288	2836	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2288
Pictured Cliffs	2836	3004	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	2836
Lewis	3004	3804	Shale w/ siltstone stringers	Lewis	3004
Chacra	3804	4291	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3804
Mesa Verde	4291	4604	Light gry, med-fine gr ss, carb sh & coal	Mesaverde	4291
Menefee	4604	5090	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4604
Point Lookout	5090	5437	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	5090
Mancos	5437	6341	Dark gry carb sh.	Mancos	5437
Gallup	6341	7077	Lt. gry to brn calc carb micac gluac silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	6341
Greenhorn	7077	7185	Highly calc gry sh w/ thin lmst.	Greenhorn	7077
Dakota	7185		Lt to dark gry foss carb sl calc sl sitty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	7185
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss		0

32. Additional remarks (include plugging procedure):

**This well is now producing as a Blanco Mesaverde / Basin Dakota under DHC 4018AZ**

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 *Amanda Walker* Date 8/22/2018

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.