

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

AUG 15 2018

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

NM-03999

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

2. Name of Operator

Hilcorp Energy Company

3. Address  
382 Road 3100, Aztec, NM 874103a. Phone No. (include area code)  
(505) 599-3400

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Grambling 5R

9. API Well No.

30-045-30351

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

At surface

Unit O (SWSE), 765' FSL &amp; 1955' FEL

At top prod. Interval reported below

At total depth

Same as above

14. Date Spudded  
4/11/200115. Date T.D. Reached  
5/15/200116. Date Completed 8/7/2018  
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)\*  
5618' GL18. Total Depth:  
2243'19. Plug Back T.D.:  
2207'20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric &amp; 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 Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
9 7/8"	7" J-55	20#	0	132'		80 sx			
6 1/4"	2 7/8" J-55	6.5#	0	2240'		384 sx			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforation Interval	Size	No. Holes	Perf. Status
A) Lower Fruitland Coal	2004'	2020'	2 SPF	0.29"	32	Open
B) Middle Fruitland Coal	1928'	1967'	4 SPF	0.29"	156	Open
C) Upper Fruitland Coal	1810'	1822'	4 SPF	0.29"	48	Open
D) TOTAL					236	

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

Depth Interval	Amount and Type of Material
2004' - 2020'	Acidized w/500 gal 15% HCL. Frac w/ 4,000 gal Xlinked pre-pad & 88,400 gal of 75Q 25# water gel Xlinked N2 foam. 58,740 # 20/40 AZ sand w/ sandwedge max additive, 1,012,459 scf N2. 12 Fluid bbls Flush
1928' - 1967'	Acidized w/500 gal 15% HCL. Frac w/ 4,000 gal Xlinked pre-pad & 163,120 gal of 75Q 25# water gel Xlinked N2 foam. 157,890 # 20/40 AZ sand w/ sandwedge max additive, 1,843,765 scf N2. 12 Fluid bbls Flush
1810' - 1822'	Acidized w/500 gal 15% HCL. Frac w/ 4,000 gal Xlinked pre-pad & 51,100 gal of 75Q 25# water gel Xlinked N2 foam. 61,160 # 20/40 AZ sand w/ sandwedge max additive, 501,770 scf N2. 10 Fluid bbls Flush

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
8/8/2018	8/7/2018	0.25	→	0	6.4 mcf	.25 bwph	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	
1.5"	0 psi	5 psi	→	0	310 mcf/d	24 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
			→						NMOC
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)

NMOCDA

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.)

Vented

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	925'	2220'	White, cr-gr ss	Ojo Alamo	925'
Kirtland	1085'	2580'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	1085'
Fruitland	1600'	2872'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	1600'
Pictured Cliffs	2037'	3272'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	2037'
Lewis			Shale w/ siltstone stringers	Lewis	
Chacra			Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	
Cliffhouse			Light gry, med-fine gr ss, carb sh & coal	Cliffhouse	
Menefee			Med-dark gry, fine gr ss, carb sh & coal	Menefee	
Point Lookout			Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	
Mancos			Dark gry carb sh.	Mancos	
Gallup			Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	
Greenhorn			Highly calc gry sh w/ thin lmst.	Greenhorn	
Dakota			Lt to dark gry foss carb sl calc sl sitty ss w/ pyrite incl thin sh bands cly & shale breaks	Dakota	

32. Additional remarks (include plugging procedure):

Well is now producing as Fruitland Coal / Pictured Cliffs commingle under DHC-4297.

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)

Christine Brock

Title

Operations/Regulatory Technician - Sr.

Signature

Christine Brock

Date

8/14/18

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.