

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

5. Lease Serial No.
NMSF-078138

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 - AMENDED**

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.
Federal B 2

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

9. API Well No.
30-045-32860

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **Unit I (NESE), 2200' FSL & 665' FEL**
 At top prod. Interval reported below **Same as above**
 At total depth **Same as above**

10. Field and Pool or Exploratory
Blanco Mesaverde
 11. Sec., T., R., M., on Block and Survey or Area
Sec. 28, T30N, R11W
 12. County or Parish **San Juan** 13. State **New Mexico**

14. Date Spudded **8/15/2005** 15. Date T.D. Reached **8/26/2005** 16. Date Completed **2/2/2019**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6076'

18. Total Depth: **7343'** 19. Plug Back T.D.: **7298'** 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 Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
12-1/4"	8 5/8" J-55	24#	0	366'	n/a	250 sx			None
7-7/8"	5 1/2" J-55	15.5#	0	7341'	n/a	1300 sx			None

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"	6992'							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Menefee	4424'	4682'	1 SPF	.34"	24	open
B) Point Lookout	4738'	5000'	1 SPF	.34"	30	open
C)						
D) TOTAL					54	

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

Depth Interval	Amount and Type of Material
4424'-4682'	Frac'd w/ 150,913# 20/40 AZ sand / 126,537 Gal #20 gel foam / 1.55M SCF N2 @ 70Q, flushed w/105 fluid bbls
4738'-5000'	Frac'd w/ 150,967# 20/40 AZ sand / 115,044 Gal #20 gel foam / 1.21M SCF N2 @ 70Q, flushed w/132 fluid bbls

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
2/4/2019	2/1/2019	1	→	0	88	4	N/A	N/A	Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1"	80	N/A	→	0	2126	96	N/A		Flowing

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
			→						NMOCD
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	Flwg. SI		→						NMOCD

*(See instructions and spaces for additional data on page 2)

N

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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	958'	1127'	White, cr-gr ss	Ojo Alamo	958'
Kirtland	1127'	2070'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	1127'
Fruitland	2070'	2394'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2070'
Pictured Cliffs	2394'	2546'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	2394'
Lewis	2546'	3356'	Shale w/ siltstone stingers	Lewis	2546'
Chacra	3356'	4080'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3356'
Mesa Verde	4080'	4149'	Light gry, med-fine gr ss, carb sh & coal	Mesaverde	4080'
Menefee	4149'	4758'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4149'
Point Lookout	4758'	5090'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4758'
Mancos	5090'	5972'	Dark gry carb sh.	Mancos	5090'
Gallup	5972'	6712'	Lt. gry to brn calc carb micac gluaac silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	5972'
Greenhorn	6712'	6770'	Highly calc gry sh w/ thin lmst.	Greenhorn	6712'
Graneros	6770'	'	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	6770'
Dakota			Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	'

32. Additional remarks (include plugging procedure):

This well is now producing as a Blanco Mesaverde/Basin Dakota commingled well, per DHC 4074AZ.

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) Cherylene Weston Title Operations/Regulatory Technician-Sr.
 Signature Cherylene Weston Date 2-13-19

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.

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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"	6992'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Menefee	4244	4682	1 SPF	.34"	24	open
B) Point Lookout	4738	5000	1 SPF	.34"	30	open
C)						
D) TOTAL					54	

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

Depth Interval	Amount and Type of Material
4244-4682	Frac'd w/ 150,913# 20/40 AZ sand / 126,837 Gal #20 gel foam / 1.55M SCF N2 @ 70Q, flushed w/105 fluid bbls
4738-5000	Frac'd w/ 150,967# 20/40 AZ sand / 115,044 Gal #20 gel foam / 1.21M SCF N2 @ 70Q, flushed w/132 fluid bbls

28. Production - Interval A

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Choke Size	Tbg. Press. flowing	Csg. Press. Flowing	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1"	80	N/A	→	0	2126	96	N/A	Flowing	

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
			→						NMOCD
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						FEB 22 2019 DISTRICT III

*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
FEB 20 2019
FARMINGTON FIELD OFFICE
NMOCD
FEB 22 2019
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.)

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Pictured Cliffs	2394'	2546'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	2394'
Lewis	2546'	3356'	Shale w/ siltstone stringers	Lewis	2546'
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32. Additional remarks (include plugging procedure):

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