

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENToperator
FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM14847
6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.
8. Lease Name and Well No. PERE MARQUETTE 18 FEDERAL 6
9. API Well No. 30-015-39052-00-S1
10. Field and Pool, or Exploratory EMPIRE GLORIETA YESO
11. Sec., T., R., M., or Block and Survey or Area Sec 18 T17S R29E Mer NMP
12. County or Parish EDDY
13. State NM
17. Elevations (DF, KB, RT, GL)* 3681 GL

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

2. Name of Operator
CIMAREX ENERGY COMPANY OF. Contact: NATALIE E KRUEGER
Email: nkrueger@cimarex.com

3. Address 600 NORTH MARIENFELD STREET SUITE 600
MIDLAND, TX 79701 3a. Phone No. (include area code)
Ph: 432-620-1936

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

At surface NWNE 989FNL 1650FEL 32:839113 N Lat; 104:110974 W Lon

At top prod. interval reported below NWNE 989FNL 1650FEL

At total depth NWNE 989FNL 1650FEL

14. Date Spudded 05/17/2011 15. Date T.D. Reached 05/24/2011 16. Date Completed
☐ D & A ☒ Ready to Prod.
06/01/2011

18. Total Depth: MD 5268 TVD 19. Plug Back T.D.: MD TVD 20. Depth Bridge Plug Set: MD TVD

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

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit analysis)

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
14.750	9.625 K-55	36.0	0	298		400		0	
8.750	5.500 N-80	17.0	0	5268		1100		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	4706							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	3865	4135	3865 TO 4135	1.420	52	Open, Paddock
B) BLINEBRY	4226	4635	4226 TO 4635	0.420	44	Open, Blinebry
C)						
D)						

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

Depth Interval	Amount and Type of Material
3865 TO 4135	1,365,107 gal slickwater, 537,275# 40/70 sand
4226 TO 4635	1,132,723 gal slickwater, 446,227# 40/70 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
06/20/2011	07/09/2011	24	→	135.0	210.0	867.0	36.9	1.00	PRODUCTION METHOD CARLSBAD FIELD OFFICE ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
OPEN	170	120.0	→	135	210	867	1556	POW	

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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #116210 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

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 tests, 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
SAN ANDRES	2443	3831	DOLOMITE	TOP SALT	200
PADDOCK	3860	4406	DOLOMITE	BASE OF SALT	700
BLINEBRY	4406	5235	DOLOMITE	SAN ANDRES	2443
TUBB	5235		SANDSTONE	GLORIETA	3831
				PADDOCK	3860
				BLINEBRY	4406
				TUBB	5235

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #116210 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 08/29/2011 (11DLM1253SE)

Name (please print) NATALIE E KRUEGER

Title REGULATORY

Signature (Electronic Submission)

Date 08/26/2011

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****



Cimarex Energy Co. of Colorado

Pere Marquette 18 Fed 6

989' FNL & 1650' FEL

Sec 18 - T17S - R29E, Eddy Co NM

API: 30-015-39052

M. Ketter

6/23/2011

9-5/8" 36# K55 STC csg @ 309'

400 xs cmt, circl'd cmt

Quantity	Description	Length	Setting Depth
	KB		
163	2-7/8" 6 5# J55 Tubing	3778.78	3778.78
1	2-7/8" Tubing Sub	8.10	3786.88
1	Stator	28.88	3815.76
1	Tag Collar	1.25	3817.01
1	2-7/8" 6 5# J55 Tubing	32.95	3849.96
1	2-7/8" X 5-1/2" Tbg Anchor	2.85	3852.81
26	2-7/8" 6.5# J55 Tubing	852.77	4705.58

Quantity	Description	Length	Setting Depth
	KB		
1	1-1/4" X22' PR	22.00	
1	8' - 1" pony subw/ 7/8" pin	8.00	
55	1" (D Type) w/7/8" pins rods	1375.00	
94	1" (KD Type) w/7/8" pins rods	2350.00	
1	Rotor	28.00	

Paddock Perfs:

3920'-4170'

Blinebry Perfs:

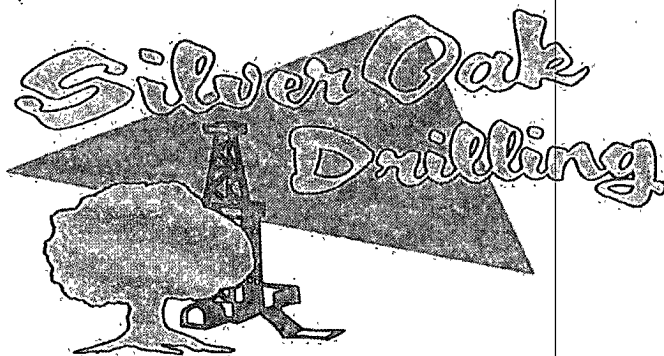
4228'-4643.5'

5 1/2" 17# N80 8RD csg @ 5,268'

1100 sxs cmt; circl'd cmt

PBTD: 5227'

TD: 5268'



15-32052
PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

May 27, 2011

Cimarex Energy Co.
Attn: Jim Evans
600 N. Marienfeld, Suite 600
Midland, TX 79701

RE: Pere Marquette 18 Federal #6
989' FNL & 1650' FEL
Sec. 18, T17S, R29E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

Very truly yours,

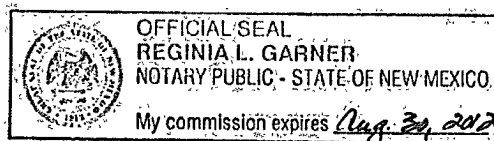
A handwritten signature in cursive script, appearing to read "Eddie C. LaRue".

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 27th day of May, 2011.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".

Notary Public

Pason DataHub Deviation Survey
Well Dossier 1305670973 - Pere Marquette 18 Fed #6

# Date	Depth	Deviation
5/18/2011	268	0.60
5/19/2011	495	0.90
5/19/2011	710	0.70
5/19/2011	957	0.60
5/20/2011	1396	0.50
5/20/2011	1871	0.40
5/20/2011	2371	0.00
5/21/2011	2562	0.20
5/21/2011	3036	0.40
5/22/2011	3320	0.40
5/23/2011	3793	0.50
5/23/2011	4271	0.60
5/23/2011	4610	0.70
5/24/2011	4593	0.70
5/24/2011	4992	0.80
5/24/2011	5198	0.80

EOF

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 86210

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87503

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-39052	Pool Code	Pool Name Empire; Glorieta-Yeso
Property Code 38581	Property Name PERE MARQUETTE 18 FEDERAL	Well Number 6
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3681'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	17 S	29 E		989	NORTH	1650	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 1
26.69 ACRES

LOT 2
26.81 ACRES

LOT 3
26.92 ACRES

LOT 4
27.04 ACRES

SURFACE LOCATION
 Lat: - N 32°50'20.807"
 Long - W 104°06'39.505"
 NMSPCE= N 689074.2
 E 609631.3
 (NAD-83)

NM-14847

3678.6' 3673.5'
 3685.4' 3679.8'

S.L.

1650'

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns or working interest in or unshared mineral interest in the land including the proposed bottom hole location or has proposed to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Mato W. King 8/26/2011
Signature Date

Natalie Krüger

Printed Name nkrueger@cimarex.com

Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

JANUARY 1, 1961
 Date Surveyed
 Signature & Seal of
 Professional Surveyor
 W.O. [illegible]
 14-1-1961

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 23850