

OCD-HOBBS

Form 3160-4
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

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 **Trilogy Operating, Inc.**

3. Address **P.O. Box 7606
Midland, Tx. 79708**

3a. Phone No. (include area code) **432-686-2027**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface **2428' FSL & 2230' FWL (Unit K)** ✓
At top prod. interval reported below **2428' FSL & 2230' FWL (Unit K)**
At total depth **2428' FSL & 2230' FWL (Unit K)**

5. Lease Serial No. **NMNM 99058**

6. If Indian, Allottee or Tribe Name _____

7. Unit or CA Agreement Name and No **K OG RLD #21602**

8. Lease Name and Well No **Natalie Federal #1** ✓

9. AFI Well No. **30-025-37736** ✓

10. Field and Pool, or Exploratory **Nadine; Yates (Gas)**

11. Sec., T., R., M., on Block and Survey or Area **7-19S-39E**

12. County or Parish **Lea** 13. State **NM** ✓

14. Date Spudded **04/19/2006** 15. Date T.D. Reached **04/30/2006** 16. Date Completed **07/25/2007**
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **GL 3589'**

18. Total Depth MD **4800'** 19. Plug Back T.D. MD **4760'** 20. Depth Bridge Plug Set MD **3400'**
TVD **4800'** TVD **4760'** TVD **3400'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **CNL, DLL**

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*
12 1/4"	8 5/8"	24#	surface	1820'		900 sxs "C"	423	surface CIR
7 7/8"	5 1/2"	17#	surface	4800'		875 sxs "C"	339	surface CIR

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	3094'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) Yates	2930'	3034'	2930'-2970'	0.42	48	2 SPF = 48 Holes
B) San Andres	4360'	4800'	4422'-4573'	0.42	50	2 SPF = 50 Holes
C)						
D)						

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

Depth Interval	Amount and Type of Material
2930'-2970'	4500 gals 15% NEFE
4422'-4573'	1000 gals 20% NEFE

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
7/25/07	07/25/2007	24	→	0	40	20	N/A	0.73	Pumping
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
N/A	SI N/A	40#	→	0	40	20	0		Shut in waiting on gas line

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
07/01/2006	07/19/2006	24	→	2	2	100	34	unknown	pumping
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
N/A	SI N/A	40#	→	2	2	100	1000		Plugged back w/ C/BP

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

ACCEPTED FOR RECORD
AUG 14 2007
FREDERICK WRIGHT
PETROLEUM ENGINEER

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.)

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
Yates 7 Rivers San Andres	2930' 3035' 4360'	3034' 4359' 4800'	Sand, Anhydrite, Shale Sand, Anhydrite, Dolomite, Limestone Dolomite, Anhydrite	Yates 7 Rivers San Andres	2930' 3035' 4360'

32. Additional remarks (include plugging procedure):

Well is shut in waiting on gas line to be laid.

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) **Chris Smith**Title **Marketing Director**

Signature

Date **08/02/2007**

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.

CEMENT JOB REPORT

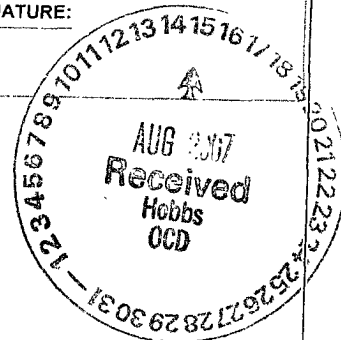


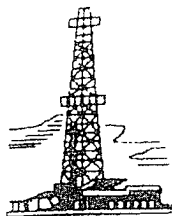
CUSTOMER Trilog Operating, Inc		DATE 21-APR-06	F.R. # 443510056	SERV. SUPV. NEWMAN D COBURN	
LEASE & WELL NAME Natalie Fed 1 - API 30025377360000		LOCATION Sec 7 TS.19S R.39E		COUNTY-PARISH-BLOCK Lea New Mexico	
DISTRICT Hobbs		DRILLING CONTRACTOR RIG # Permian Rig 4		TYPE OF JOB Surface	
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES	
BJ Cement Plug, Rubber, Top 8-5/8		Guide Shoe, Cement Nose, 8-5/8 i		SACKS OF CEMENT	SLURRY WGT PPG
		Float Collar, Ball Valve, 8-5/8 - 8rd		SLURRY YLD FT ³	WATER GPS
				PUMP TIME HR:MIN	Bbl SLURRY
					Bbl MIX WATER
MATERIALS FURNISHED BY BJ					
WATER				8.34	20
35'65 POZ C + 6% GEL + 5% SALT + 1/4# CF		700		12.7	175.10
C + 2% CACL		200		14.8	30.46
WATER				8.34	113
Available Mix Water 500 Bbl.		Available Displ. Fluid 161 Bbl.		TOTAL	423 205.56
HOLE		TBG-CSG-D.P.		COLLAR DEPTHS	
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE
12.25		1800	8.625	24	CSG
				DEPTH	GRADE
				1820	J-55
				SHOE	FLOAT
				1820	1777.8
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH	
SIZE	WGT	TYPE	DEPTH	TOP CONN	
		BRAND & TYPE		WELL FLUID	
				SIZE	THREAD
				8.625	8RD
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.
113	BBLs	WATER	8.34	500	0
				OP. MAX	MAX TBG PSI
				SQ. PSI	RATED
				Operator	MAX CSG PSI
				Operator	Operator
				2950	2360
				Rig	

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE		
	PIPE	ANNULUS					
19:45	0	0	0	0		SAFETY MEETING: BJ CREW ☒ CO. REP. ☐	
21:40	294	0	5	20	WATER	TEST LINES 3000 PSI	
09:13	0	0	0	0		CIRCULATING WELL - RIG ☒ BJ ☐	
10:49	4100	0	0	0		ARRIVE TO LOC. SAFTY MEET, RIG UP	
10:53	244	0	5	20	WATER	PUMP TEST "CHL.0 SUL.>200 PH.7 TEMP.70"	
10:56	287	0	7	242	LEAD SLU	PRE-JOB SAFTY MEETING	
11:41	296	0	4.5	48	TAIL SLUF	LINE TEST	
11:52	0	0	0	0		SPACER AHEAD	
11:54	342	0	7	67	WATER	CMT@12.7	
12:15	0	0	0	46	MUD	CMT@14.8	
13:00	0	0	0	0		DROP PLUG	
						DISPLACEMENT	
						TURN OVER TO RIG FOR 46 BBL	
						BUMP PLUG 1200PSI "200SX 69 BBL TO PIT"	
						Thank You! Dean, Chad, & Felipe	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
☒ Y ☐ N	1200	☒ Y ☐ N	69	423	0	☒ Y ☐ N	





Permian Drilling Corporation

P. O. Box 726

(505)397-3798

Fax (505)393-2448

Hobbs, New Mexico 88241

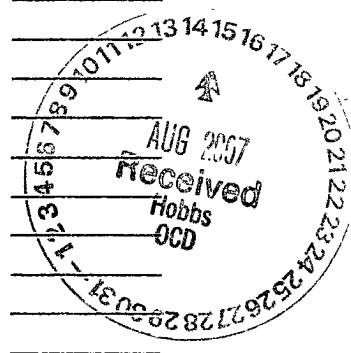
INCLINATION REPORT

DATE: 5/3/2006

WELL NAME AND NUMBER: NATALIE FEDERAL
LOCATION: SEC. 7, T19S, R39E LEA CO. NM
OPERATOR: TRILOGY OPERATING, INC.
DRILLING CONTRACTOR: PERMIAN DRILLING CORPORATION

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

DEGREE	DEPTH	DEGREE	DEPTH	DEGREE	DEPTH
0.50	948				
0.50	1420				
0.50	1775				
0.75	2037				
2.25	2416				
2.00	2895				
0.75	3180				
0.50	3494				
0.75	3777				
1.00	4093				
1.00	4393				



Drilling Contractor:
Permian Drilling Incorporation

By:

Sherry Coskrey
Sherry Coskrey
Regulatory Clerk

Subscribed and sworn to before me on this 3rd day of May, 2006.

My Commission Expires:

June 8, 2006

Angela Black