

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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
APACHE CORPORATION

3. Address 303 VETERANS AIRPARK LN. STE 3000 MIDLAND TX, 79705

3a. Phone No. (include area code)
432.818.1065

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

1650' FNL & 2310' FEL
At surface

At top prod. interval reported below

At total depth

14. Date Spudded
02/20/2011

15. Date T.D. Reached
03/02/2011

16. Date Completed
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.
NMLC028775B

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
BARNSDALL FED #18

9. AFI Well No.
30-015-37643

10. Field and Pool or Exploratory
ABO - Bear Grass Draw, Colonia
11. Sec., T., R., M., on Block and
Survey or Area SEC 27, T17S, R29E

12. County or Parish

13. State

EDDY

NM

17. Elevations (DF, RKB, RT, GL)*
3550' GR

18. Total Depth: MD 6046'
TVD

19. Plug Back T.D.: MD 5645'
TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BhP, DLL, SGR, CPD, CSSGR

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
17.5	13.375/H40	48	0	250'		530 sx/CL C		SRF (222sx)	
11	8.625/J55	24	0	800'		240 sx/CL C		SRF (58sx)	
7.785	5.5/J55	17	0	6044'	STG 1	530 sx/CL C		SRF	
					STG 2	720 sx/CL C		SRF	

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 7/8	5496							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO			5680-5980'		21	Under CIBP @ 5675' w/35' cmt
B)			5006-5286'		30	PROD
C)			4670-4926'		25	PROD
D)			4290-4521' & 4050-4082		28/15	PROD/PROD

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

Depth Interval	Amount and Type of Material
5680-5980'	Acidize w/1706 gals 15% NEFE w/42 BS
5006-5286'	Acidize w/1706 gals 7.5% HCL NEFE w/60BS, Frac w/116,706 gals 20# lin. gel w/204,768 lbs 20/40 ottawa
4670-4926'	Acidize w/2500 gal 7.5% NEFE w/50BS, Frac w/81,667 gals 20# lin. gel w/138k lbs 20/40 ottawa
4290-4521'/4050-82'(see below)	Acidize w/2500 gal 15% NEFE w/56BS, Frac w/101,931 gals 20# lin gel w/148.9k lbs 20/40 ottawa

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
4/10/11	4/12/11	24	→	12	133	235	37.4		PMPING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

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

RECEIVED
MAY 11 2011
NMOCD ARTESIA

ACCEPTED FOR RECORD

MAY 7 2011

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.)

30. Summary of Porous Zones (Include Aquifers):	31. Formation (Log) Markers
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.	

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
YATES	838				
7 RIVERS	1127				
QUEEN	1756				
SAN ANDRES	2468				
GLORIETA	3963				
PADDOCK	4053				
BLINEBRY TUBB	4587 5442				

32. Additional remarks (include plugging procedure):

4050-4082' Acidize w/2500 gal 15% NEFE w/30BS. Frac w/41,495 gals 20# lin gel w/52k lbs 20/40 ottawa. (Information did not fit on line #27)

Bureau of Land Management
RECEIVED

APR 21 2011

Carlsbad Field Office
Carlsbad, N.M.

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) KATIE KAUFFMAN Title ENG TECH
 Signature Katie Kauffman Date 04/12/2011

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.



Run Report & Survey Record

ers Log Today's Date _____

Driller's Log

Page 1 of __:

Well Data		NES Tool Data		Bit and Mud Data	
Company:	APACHE	Tool Size:	6"	Current Depth	0
Location:	EDDY	Tool No.		Mud Type:	
Rig:	AZTEC124	Hole Size:		Mud Wt:	
Well:	BARNSDALL FED 18	Run No:		Sand %:	
Job No:		Flow Setting		Pump SPM	/
Company Man	RICHARD MCKAY	Flow GPM plan		Pump Output/Stk	/
Driller		Current GPM		Bit Type	
		Survey offset (ft)		Bit TFA (in2)	

Drilling Data

Date & Time In:		Depth In		Drill/Circulate hrs:	/
Date & Time Out:		Depth Out		BRT hrs:	

Survey Record									Comp Surveys (MSS etc.)		
Survey	Date	Time	Survey Depth	Survey Flow Rate GPM	Pulse Height	SPP	Inc. Deg.	Comments Off Bottom, Drlg, etc	Date Time	Survey Depth	Inc. Deg.
1	2/20/11		230				0.5				
2	2/22/11		496				1				
3	2/22/11		774				0.5				
4	2/23/11		1014				0.5				
5	2/24/11		1453				0.25				
6	2/24/11		1703				0.5				
7	2/24/11		1957				0.75				
8	2/24/11		2366				1				
9	2/25/11		2768				0.5				
10	2/25/11		3083				0.85				
11	2/25/11		3427				0.24				
12	2/26/11		3656				1				
13	2/26/11		4030				1.25				
14	2/27/11		4251				0.75				
15	2/27/11		4630				1				
16	2/27/11		4881				1				
17	2/27/11		4976				1.5				
18	2/28/11		5195				2.25				
19	3/1/11		5542				2.5				
20	3/1/11		5826				2.75				
21	3/1/11		6006				2.5				
22											
23											
24											
25											

Comments



Upcoming Activity

Crew Change Day

Tour Change Time

Navigate Energy Services
157000 International Plaza Dr.
Suite 150
Houston, Texas 77032
Tel: (832) 300 0030
Fax (832) 300 0025

NES TOS 10-09A

Field Service Engineer _____