Form 3160-4
(August 2007)

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NMLC028775B

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

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.:

2. Name of Operator: APACHE CORPORATION

8. Lease Name and Well No.: BARNSDALL FEDERAL #17

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

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

9. AFI Well No.: 30-015-37681

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface: 1730' FNL & 1650' FWL

Per PK
2975347

10. Field and Pool or Exploratory: ABO ~~EMPIRE ABO~~ Bear Grass Draw; Glorieta-Yeso

11. Sec., T., R., M., on Block and Survey or Area: SEC27,T17S,R29E

At top prod. interval reported below

At total depth

12. County or Parish: EDDY

13. State: NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
02/04/2011	02/16/2011	☐ D & A ☑ Ready to Prod.	3555' KB

18. Total Depth: MD / TVD	19. Plug Back T.D.: MD / TVD	20. Depth Bridge Plug Set: MD / TVD
6016	6013'	

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BP,DLL,SGR,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	48	0	223	CIRC SURF	553		Surf	
11	8.625	24	0	800	CIRC SURF	414		Surf	
7.875	5.5	17	0	6016	STG1-CIRC	500		Surf	
					STG2-CIRC	750		Surf	

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	5704							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO			4060-4535		46	PRODUCING
B)			4924-5180		33	PRODUCING
C)			5272-5585		26	PRODUCING
D)						

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

Depth Interval	Amount and Type of Material
5272-5585	Acidize w/2092 gals 15% NEFE & 3444 gals 20# gel, Frac w/114,960 gals 20# w/207,170# 16/30 wht sd
4924-5180	Acidize w/3k gals 15% NEFE w/66 BS, Frac w/137,905 gals 20# w/196.2k 16/30 wht sd
4060-4535	Acidize w/6k gals 15% NEFE w/96 BS

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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
3/25/201	4/12/2011	24	→	12	84	60	37.4		PUMPING

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
			→					

ACCEPTED FOR RECORD
APR 28 2011
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

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):

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	822				
7 RIVERS	1112				
QUEEN	1732				
SAN ANDRES	2453				
GLORIETA	3974				
PADDOCK	4054				
BLINE TUBB	4591 5463				

32. Additional remarks (include plugging procedure):

Bureau of Land Management
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APR 15 2011

Carlsbad Field Office
Carlsbad, NM

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 _____ Date 04/13/2011

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.

(Continued on page 3)

Run Report & Survey Record

ers Log

Today's Date _____

Driller's Log

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 17	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

Survey	Date	Time	Survey Depth	Survey Flow Rate GPM	Pulse Height	SPP	Inc. Deg.	Comments Off Bottom, Drlg, etc
1	2/5/11		203				0.5	
2	2/7/11		482				1	
3	2/7/11		740				0.75	
4	2/9/11		950				0.75	
5	2/9/11		1203				0.5	
6	2/9/11		1456				0.75	
7	2/9/11		1548				1	
8	2/9/11		1606				0.75	
9	2/9/11		1795				0.5	
10	2/10/11		2203				1.75	
11	2/10/11		2455				1.5	
12	2/10/11		2645				1.25	
13	2/11/11		2959				1	
14	2/11/11		3086				1	
15	2/11/11		3470				1.5	
16	2/11/11		3621				0.75	
17	2/12/11		3841				1.25	
18	2/12/11		3970				1	
19	2/13/11		4059				1	
20	2/13/11		4465				1	
21	2/14/11		4715				1.25	
22	2/14/11		5084				1.75	
23	2/14/11		5441				2.5	
24	2/15/11		5567				3.5	
25	2/15/11		5946				2.75	

Comp Surveys (MSS etc.)

Date Time	Survey Depth	Inc. Deg.

Comments

Upcoming Activity

Crew Change Day **Tour Change Time**

NES TOS 10-09A **Field Service Engineer** _____

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

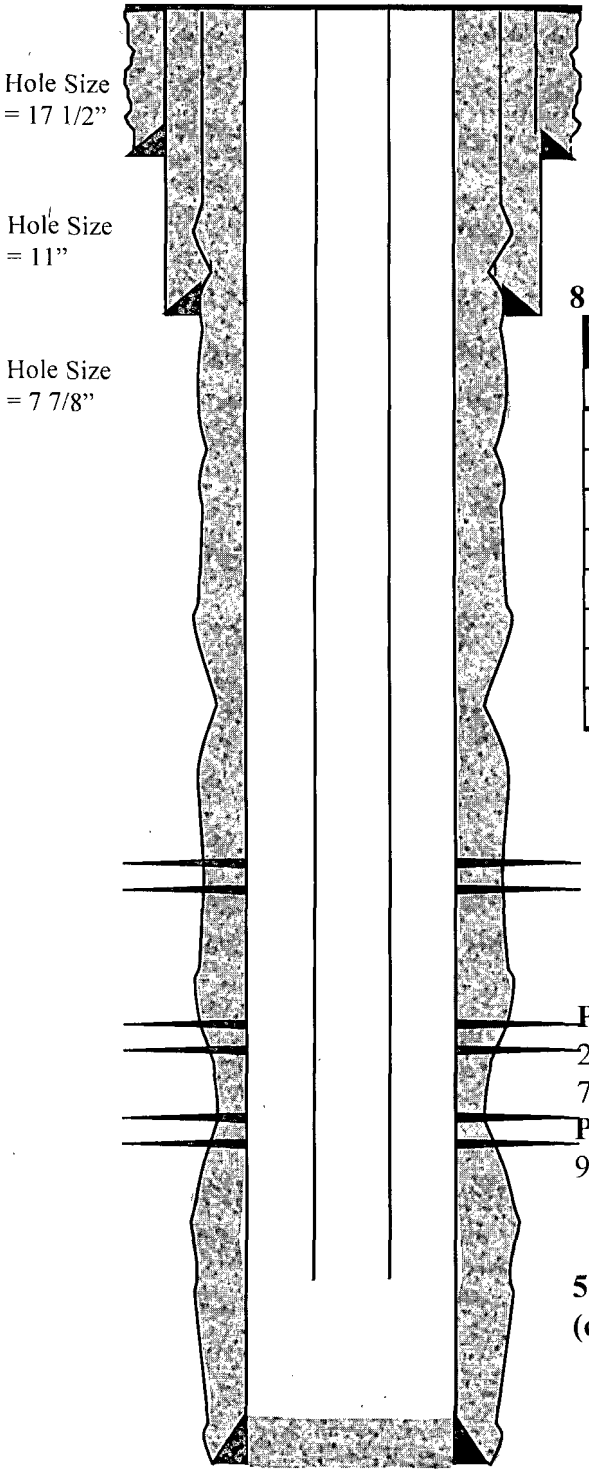
Apache Corporation – Barnsdall Fed. #17

Date: 4-12-11

Wellbore Diagram - Present Status

Ground Elevation = 3543'
KB = 3555'
DF=3553'

Surface Location
1730' FNL, 1650' FWL
Section 27, T-17-S, R-29-E,
Eddy County, NM
API #: 30-015-37681



13 3/8" 48# H-40 Csg @ 223' cmt'd W/553 sx (circ'd)

8 5/8" 24# J-55 Csg @ 800' cmt'd W/414 sx (circ'd)

TUBING DETAIL

Qty	Description	Length	Depth
190	2 7/8	5704.00	5,704.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00

Perf Upper Yeso:4060,69,74,82,89,98,4104,14,20,28,36,46,56, 64,71,82,90,96,4206,16,24,33,4310,18,25,36,46,54,63,70,79,91, 98,4404,09,24,30,39,50,55,60,68,80,90,4500,08,19,35 (3/7)

Perf Mid Yeso: 4924,32,40,48,56,64,72,80,88,96,5004,12, 20,28,36,44,52,60,68,76,84,82,5100,08,14,24,32,40,48,56,64, 72,80 (3/3)

Perf Lwr Yeso: 5272,80,88,96,5304,12,30,28,36,42,66,74,82, 90,98,5506,14,22,30,38,46,54,62,70,78,85 (2/28)

5 1/2" 17# J-55 Csg @ 6016' First stage cmt'd W/500 sx (circ'd). Second stage cmt'd W/750 sx (circ'd).

PBTD =6013'
TD = 6016'