

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-101
Revised March 17, 1999

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1 Operator Name and Address Apache Corporation 6120 South Yale, Suite 1500 Tulsa, Oklahoma 74136-4224		Attn: Kara Coday		2 OGRID Number 000873
4 Property Code 23103	5 Property Name Argo			3 API Number 30-025-06604
				6 Well No. 8

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
N	15	21S	37E		660	South	2310	West	Lea

8 Proposed 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
9 Proposed Pool 1 Paddock					10 Proposed Pool 2				

11 Work Type Code P	12 Well Type Code O	13 Cable/Rotary R	14 Lease Type Code P	15 Ground Level Elevation 3416'
16 Multiple N	17 Proposed Depth 8002' (TD)	18 Formation Paddock	19 Contractor ASAP	20 Spud Date ASAP

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	13-3/8	32#	226	300	Surface
11	8-5/8	32#	2915	1800	Surface
7-7/8	5-1/2	15.5# / 17#	2667 - 7800	850	2667
7-7/8	5-1/2	17#	0-2667	220	Circ.

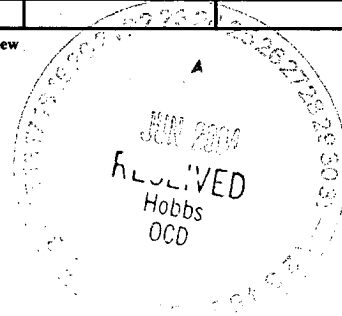
22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Argo # 8 is currently producing from the Penrose Skelly; Grayburg from 3848-3954'.

Please see attached procedure.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

Production will be evaluated for possible downhole commingle w/ Penrose Skelly; Grayburg.



23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Kara Coday*
Printed Name: Kara Coday

Title: Sr. Engineering Technician

Date: 6/14/2004

Phone: 918-491-4957

OIL CONSERVATION DIVISION	
Approved by: <i>[Signature]</i>	
Title: PETROLEUM ENGINEER	
Approval Date: JUL 07 2004	Expiration Date:
Conditions of Approval:	
Attached <input type="checkbox"/>	



AFE No: T04-3490

Argo No. 8
API #: 30-025-06604
660' FSNL & 2310' FWL
Section 15, Township 21 S, Range 37E
Lea County, New Mexico

Completion Procedure

14 June 2004

OBJECTIVE:

- Frac Paddock zone and commingle with the existing Grayburg perforations

Recent History:

The Argo No. 8 well was drilled in 1951. The Grayburg Zone was perforated and fracture stimulated in August of 2001.

Casing:

Surface:	13 3/8" 32# @ 226' cement w/ 300 sxs. circ.
Intermediate:	8 5/8" 32# @ 2915' cement w/ 1800 sxs. Circ.
Production:	5 1/2" 17# & 15.5# @ 2666'-7800' cement w/ 850 sxs.
Production Liner:	5 1/2" 17# J-55 @ 0' - 2666' cement w/ 220 sxs. Circ. (8/01)

Current Perforations:

Grayburg: 3848'-54', 62'-70', 3880'-3902', 11'-15', 22'-54' 4 JSPF - 293 Holes

CIBP:

4500' w/ 35' Cement
7315' w/ 35' Cement

PROCEDURE:

1. MIRU pulling unit. RU reverse unit. POH w/ tubing and production Equipment.
2. RIH w/ production string and bit and clean to 4465'.
3. Circulate conventionally and mix oyster shell pills until full returns received.
4. Drill out CIBP at 4500'. Run bit to +/- 7280' and tag cement. Circulate hole w/ 9.5 ppg plug mud to at least 5500'. Set CIBP at +/-6450' and dump cement.
5. RU Wireline and run CBL from 6000' - 4000'. If no squeeze work is needed set CIBP at +/- 5520' and dump cement.
6. RU Wireline and perforate 5307'-5317' w/ 2 JSPF.
7. RIH w/ 3 1/2" frac string and packer and set at +/- 5200'.
8. RU Petroplex and acidize w/ 1500 gal 15% HCl using 42 Ball Sealers at a rate of 6 BPM. Release Packer and knock balls off of perms. Reset packer at 5200' and swab acid.
9. RU Stimulation Company and Frac well as designated in service company recommendation.
10. Release packer and POH w/ tubing.
11. RIH w/ production tubing and clean out sand to PBTD.
12. RIH w/ ESP and place well on production.

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
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Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06604		² Pool Code 49210	³ Pool Name Paddock
⁴ Property Code 23103	⁵ Property Name Argo		⁶ Well Number 8
⁷ OGRID No. 000873	⁸ Operator Name Apache Corporation		⁹ Elevation 3416' GL

¹⁰ Surface Location

UL or lot no. N	Section 15	Township 21S	Range 37E	Lot Idn	Feet from the 660	North/South line South	Feet from the 2310	East/West line West	County Lea
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¹¹ 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
¹² Dedicated Acres 40		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

16				<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Kara Coday</i> Signature</p> <p>Kara Coday Printed Name Sr. Engineering Technician kara.coday@apachecorp.com Title and E-mail Address</p> <p>06/14/2004 Date</p>
				<p>18 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.</p> <p>Date of Survey Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>