

District II
811 South First, Artesia, NM 88210

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

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

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

☐ AMENDED REPORT

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

1 Operator Name and Address		2 OGRID Number
Apache Corporation 6120 South Yale, Suite 1500 Tulsa, Oklahoma 74136-4224		000873
		3 API Number
		30-025-06740
4 Property Code	5 Property Name	6 Well No.
23104	Argo A	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
D	22	21S	37E		990	North	990	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						10 Proposed Pool 2			
Paddock									

11 Work Type Code	12 Well Type Code	13 Cable/Rotary	14 Lease Type Code	15 Ground Level Elevation
P	O	R	P	3425'
16 Multiple	17 Proposed Depth	18 Formation	19 Contractor	20 Spud Date
N	8188' (TD)	Grayburg		ASAP

21 Proposed Casing and Cement Program

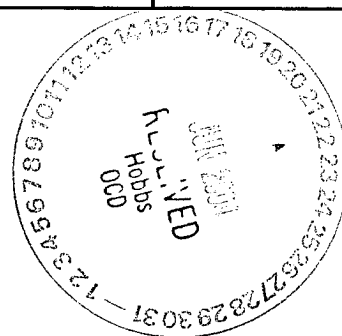
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	13-3/8	32#	226	300	Surface
11	8-5/8	32#	2928	1700	Surface
7-7/8	5-1/2	15.5# / 17#	8011	500	5000 (Estimated)


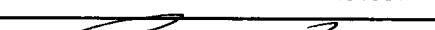
22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Currently producing from Penrose Skelly; Grayburg perms @ 3770 - 3958'

Please see attached procedure.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Plugback



23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: 		Approved by: 	
Printed Name: Kara Coday		Title: PETROLEUM ENGINEER	
Title: Sr. Engineering Technician		Approved Date: JUL 07 2004	
Date: 6/15/2004	Phone: 918-491-4957	Expiration Date:	
		Conditions of Approval:	
		Attached <input type="checkbox"/>	

Argo A No. 8
Paddock Fracture Stimulation

WELL: Argo A No. 8 **API:** 30-025-06740

LOCATION: 990' FNL & 990' FSL, Sec. 22, T21S, R37E, Lea County

CASING: **SURFACE:** 13 3/8" set @ 226' w/300 sx.
INTERMEDIATE: 8 5/8" 32# csg set @ 2928' w/ 1700 sx. circ.
PRODUCTION: 5 1/2" 15.5 & 17# J-55 csg set @ 8011' w/1400 sx. TOC @ 3838 by CBL.

PBTD: 4089' (CIBP @ 4095' w/cmt on top to 4089', and 2nd CIBP @ 4225')

PERFORATIONS: 3770'-84, 3793'-3820', 3829'-42', 3849'-59', 3867'-90, 3911'-40', 3944'-58'.

OPEN SQUEEZE HOLES: At 4168' (between CIBP's at 4089' and 4225').

PROCEDURE

1. POH w/ production equipment.
2. Drill out CIBP at 4089'. Pressure test squeeze holes at 4168' to 500#. If they do not hold, then cement squeeze 4168' below a cement retainer, drill out and re-test.
3. Drill out CIBP at 4225'.
4. RIH to PBTD at 6370' and circulate hole with "9.5 ppg plug mud" back to at least 5500' to properly abandon the wellbore below the Paddock as per NMOCD regulations
5. RU wireline and run CBL from 5700' – 4000'. Set CIBP at 5700' in preparation for squeeze. Perforate squeeze holes at 5450' and 4800'. Set cement retainer at 4810 and pump squeeze, displacing cement below retainer to 5400'
6. Drill out cement and retainer to 5400'
7. RU wireline and perforate 5300' – 5320' w/2 JSPF
8. RIH w/ treating packer on 3 1/2" frac string and set at 5200'.
9. RU acid stimulation equipment and acidize w/1500 gal.
10. Frac well down 3 1/2" tubing .
11. Place well on production. Evaluate for possible downhole commingle with Grayburg.

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06740		² Pool Code 49210	³ Pool Name Paddock
⁴ Property Code 23104	⁵ Property Name Argo A		⁶ Well Number 8
⁷ OGRID No. 000873	⁸ Operator Name Apache Corporation		⁹ Elevation 3425' GL

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	21S	37E		990	North	990	West	Lea

¹¹Bottom 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.
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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

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