

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101

Revised October 18, 1994

Instructions on back

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 Arch Petroleum Inc. 10 Desta Drive, Suite 420E Midland, Texas 79705		² OGRID Number 000962
		³ API Number 30 - 025-33550
⁴ Property Code 14915	⁵ Property Name Lillie	⁶ Well No. 5

⁷Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
F	23	24S	37E		2100	North	1800	West	Lea

⁸Proposed 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 Fowler South Tubb					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code	¹⁵ Ground Level Elevation 3200
¹⁶ Multiple No	¹⁷ Proposed Depth 6200	¹⁸ Formation Tubb	¹⁹ Contractor	²⁰ Spud Date

²¹Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8-5/8	23	1005	500	Surface
7-7/8"	4-1/2	11.6	6493	1600	Surface

²²Describe 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.

Proposed Work:

ND WH; NU BOP; POH w/rproducing equipment. Abandon current ABO perfs 6313' - 6425' by setting CIBP @ 6200' and capping w/2 sx cement.

Perforate the Tubb 5851' - 5951' and acidize w/2100 gallons of 15% NEFE HCL. Frac treat perforations w/44,000 gallons of 50 Quality CO₂, 40# X-Link gel and 155,000 lbs 16/30 Ottawa Sand. Flow back and return to production.

Abandon ABO formation and complete in Tubb formation.

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

Signature:

Merrick S. Vanderslice

Printed name:

Merrick S. Vanderslice

Title:

Vice President of Engineering

OIL CONSERVATION DIVISION

Approved By:

ORIGINAL SIGNED BY CHRIS WILLIAMS

Title:

DISTRICT I SUPERVISOR

Approval Date:

JUN 08 1998

Expiration Date:

Permit Expires 1 Year From Approval

Date Unless Drilling Underway

Plugback

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Form C-102
Revised October 18, 1994
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State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33550	² Pool Code 26635	³ Pool Name Fowler Tubb, South
⁴ Property Code 14915	⁵ Property Name Lillie	⁶ Well Number 5
⁷ OGRID No. 000962	⁸ Operator Name Arch Petroleum Inc.	⁹ Elevation 3200

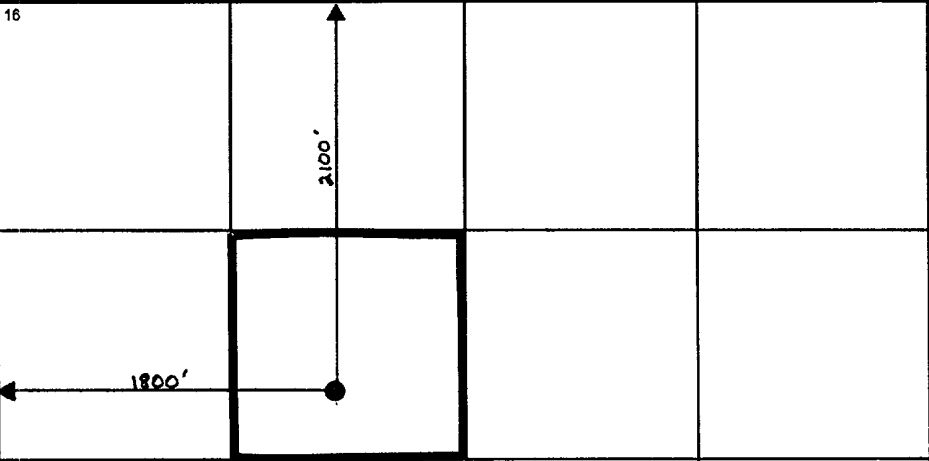
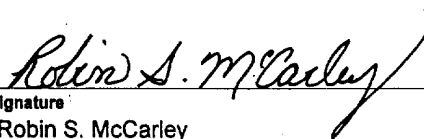
¹⁰Surface Location

UL or lot no. F	Section 23	Township 24S	Range 37E	Lot Idn	Feet from the 2100	North/South line North	Feet from the 1800	East/West Line West	County Lea
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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 40.00	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 	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  Signature Robin S. McCarley Printed Name Technical Administrator Title 06-03-98 Date	
	¹⁸ SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyer: Certificate Number	

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RECEIVED
HUBBS
SEP

Lease	Lillie	Well No.	5
Location	2100' FNL	and	1800' FWL
Unit	F	Section	23
Range	37E	Township	24S
	County	Lea	State
			NM

GE 3200'
KDB 3213.5
DF

Completion date 25-Feb-97

Initial Formation Fowler (Abo)

From 6313 to 6425
BOPD MCFPD BWPD

Initial Production 18 50 109

Completion Data:

Perfed csg 6313, 6321, 6334, 6342, 6346, 6350, 6357, 6367, 6372, 6378, 6385, 6401, 6404, 6425 W/2 - 0.5" JHPF (total of 28 holes). Acidized W/2900 gals 15% NEFE HCL using PPI pkr.

Surface csg
8 5/8" OD Surface
Set @ 1005 ft
Cmt with 500 sx
Cmt circulated Yes

Subsequent Workovers or Reconditionings:

=6313'-6425' Abo

PBTD 6460 ft
TD 6500 ft

Production csg
4 1/2" OD
11.6 #
Grade J-55
Set @ 6493 ft
Cmt with 1600 sx
TOC @ Surface ft by TS