

ABOVE THIS LINE FOR DIVISION USE ONLY

22857215

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

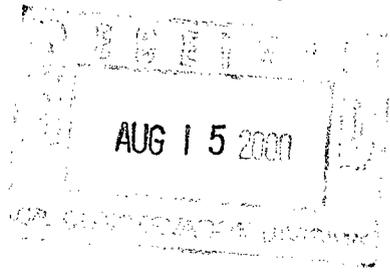
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling
 NSL NSP DD SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

JAMES BRUCE
P.O. BOX 1056
SANTA FE, NM 87504

Print or Type Name

James Bruce

 Signature

Attorney for Applicant

 Title

8/15/00

 Date

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

3304 CAMINO LISA
HYDE PARK ESTATES
SANTA FE, NEW MEXICO 87501

(505) 982-2043
(505) 982-2151 (FAX)

August 15, 2000

Hand Delivered

Michael E. Stogner
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Amended Administrative Order NSL-4419

Dear Mr. Stogner:

Arch Petroleum Inc. ("Arch") applies for a second amendment to the above administrative order. The order approved an unorthodox oil well location for the following well:

Learcy McBuffington Well No. 13-Y
630 feet FSL & 2490 feet FEL
SW $\frac{1}{4}$ SE $\frac{1}{4}$ §13
Township 25 South, Range 37 East, NMPM
Lea County, New Mexico

The well was drilled to test the Justis-Montoya Pool, but Arch has also completed the well uphole in the Undesignated Central Justis-Abo Pool. Both pools are spaced on statewide rules. Attached are a Form C-105 and a Form C-102 for the well.

Also attached is a structure/production plat of the Abo formation. The Abo is not prolific in this area, and Arch is or will be seeking (by separate application) downhole commingling approval for the two zones. Approval will allow economic production from both formations.

The S $\frac{1}{2}$ of Section 13 is a single fee lease, with common working, royalty, and overriding royalty interests, so the proposed well does not encroach on any offset owner. Therefore, notice has not been given to any offset.

Very truly yours,

A handwritten signature in cursive script, appearing to read "James Bruce". The signature is written in dark ink and is positioned above the printed name.

James Bruce

Attorney for Arch
Petroleum Inc.

Submit to Appropriate District Office
 State Lease - 6 copies
 Free Lease - 5 copies
DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
 Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
 Santa Fe, NM 87505

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
 1000 Rio Brazos Rd, Aztec, NM 87410

WELL API NO.
 30-025-35004

5. Indicate Type of Lease
 STATE FEE

6. State Oil & Gas Lease No.

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
 Arch Petroleum Inc.

3. Address of Operator
 P. O. Box 10340, Midland, TX 79702-7340

7. Lease Name or Unit Agreement Name
 Learcy McBuffington

8. Well No.
 13Y

9. Pool name or Wildcat
 Justis Strawn Detrital

4. Well Location
 Unit Letter O : 630 Feet From The South Line and 2490 Feet From The East Line
 Section 13 Township 25 Range 37 NMPM Lea County

10. Date Spudded 04/13/00	11. Date T.D. Reached 04/29/00	12. Date Compl. (Ready to Prod.) 06/09/00	13. Elevations (DF & RKB; RT, GR, etc.) 3077' GR	14. Elev. Casinghead 3078'
15. Total Depth 7150	16. Plug Back T.D. CIBP @ 6930	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools <input checked="" type="checkbox"/> Cable Tools	
19. Producing Interval(s), of this completion - Top, Bottom, Name 6760'-80' Strawn Detrital				20. Was Directional Survey Made No
21. Type Electric and Other Logs Run CNLD-IL			22. Was Well Cored No	

23. **CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	54.50# & 48#	510	17-1/2	600 sks - circ 200 sks	
8-5/8	32# & 24#	3000	11	1300 sks - circ 126 sks	
5-1/2	17# & 15.5#	7150	7-7/8	1450 sks - TOC @ 710'	

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	6481	

26. Perforation record (interval, size, and number) 6978 - 7000 (2 SPF) 6760 - 6780 (2 SPF)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	6978-7000	Acidz w/ 1000 gas 15% HCL-Unsuccessful frac attempt
	6760-6780	Acidz w/ 1000 gals 15% HCL Frac w/ 34,000# 16/30 Ottawa sand

28. **PRODUCTION**

Date First Production: 06/10/00
 Production Method (Flowing, gas lift, pumping - Size and type pump): Pumping
 Well Status (Prod. or Shut-in): Producing

Date of Test: 06/11/00	Hours Tested: 24	Choke Size:	Prod'n For Test Period:	Oil - Bbl.: 31	Gas - MCF: 90	Water - Bbl.: 41	Gas - Oil Ratio: 2903:1
Flow Tubing Press.:	Casing Pressure:	Calculated 24-Hour Rate:	Oil - Bbl.: 31	Gas - MCF: 90	Water - Bbl.: 41	Oil Gravity - API - (Corr.): 35.2	

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold
 Test Witnessed By: Gary Wells

30. List Attachments
 C-104, Logs, Sundry, Deviation Survey

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature: Cathy Tomberlin Printed Name: Cathy Tomberlin Title: Operation Tech Date: 06/14/00

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____ 718.0	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____ 850.0	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____ 2166.0	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 2366.0	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____ 2628.0	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 2987.0	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____ 3311.0	T. Montoya _____ 6830.0	T. Mancos _____	T. McCracken _____
T. San Andres _____ 3542.0	T. Simpson _____ 7050.0	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____ 4579.0	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____ 4636.0	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbery _____ 4989.0	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____ 5642.0	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____ 5895.0	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____ 6447.0	T. Strawn Detrital _____ 6652.0	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 4790	to 4950	No. 3, from 6360	to 6570
No. 2, from 5100	to 5900	No. 4, from 6750	to 6810
		6980	7000

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____	to _____	feet	
No. 2, from _____	to _____	feet	
No. 3, from _____	to _____	feet	

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0.0	718.0		red bed, gravel, sd				
718.0	850.0		anhy dol				
850.0	2166.0		salt anhy				
2166.0	2366.0		sand anhy				
2366.0	2628.0		anhy dol				
2628.0	2987.0		dolo, sand				
2987.0	3311.0		sand, dolo, anhy				
3311.0	3542.0		anhy, lime, dol				
3542.0	4579.0		dol, anhy, chert				
4579.0	4989.0		dol, lime, chert				
4989.0	5642.0		dol, sand, chert				
5642.0	6447.0		dol, lime, chert				
6447.0	6830.0		dol, lime, chert, sh				
6830.0	7050.0		dol, chert, lime				
7050.0			shale, lime				

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

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-35004	2 Pool Code 96630	3 Pool Name Justis Abo Central
4 Property Code 14912	5 Property Name McBuffington	6 Well Number 13Y
7 OGRID No. 000962	8 Operator Name Arch Petroleum Inc.	9 Elevation 3077

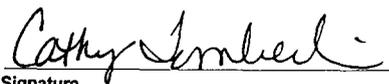
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
0	13	25S	37E		630	South	2490	East	Lea

11 Bottom Hole Location If Different From Surface

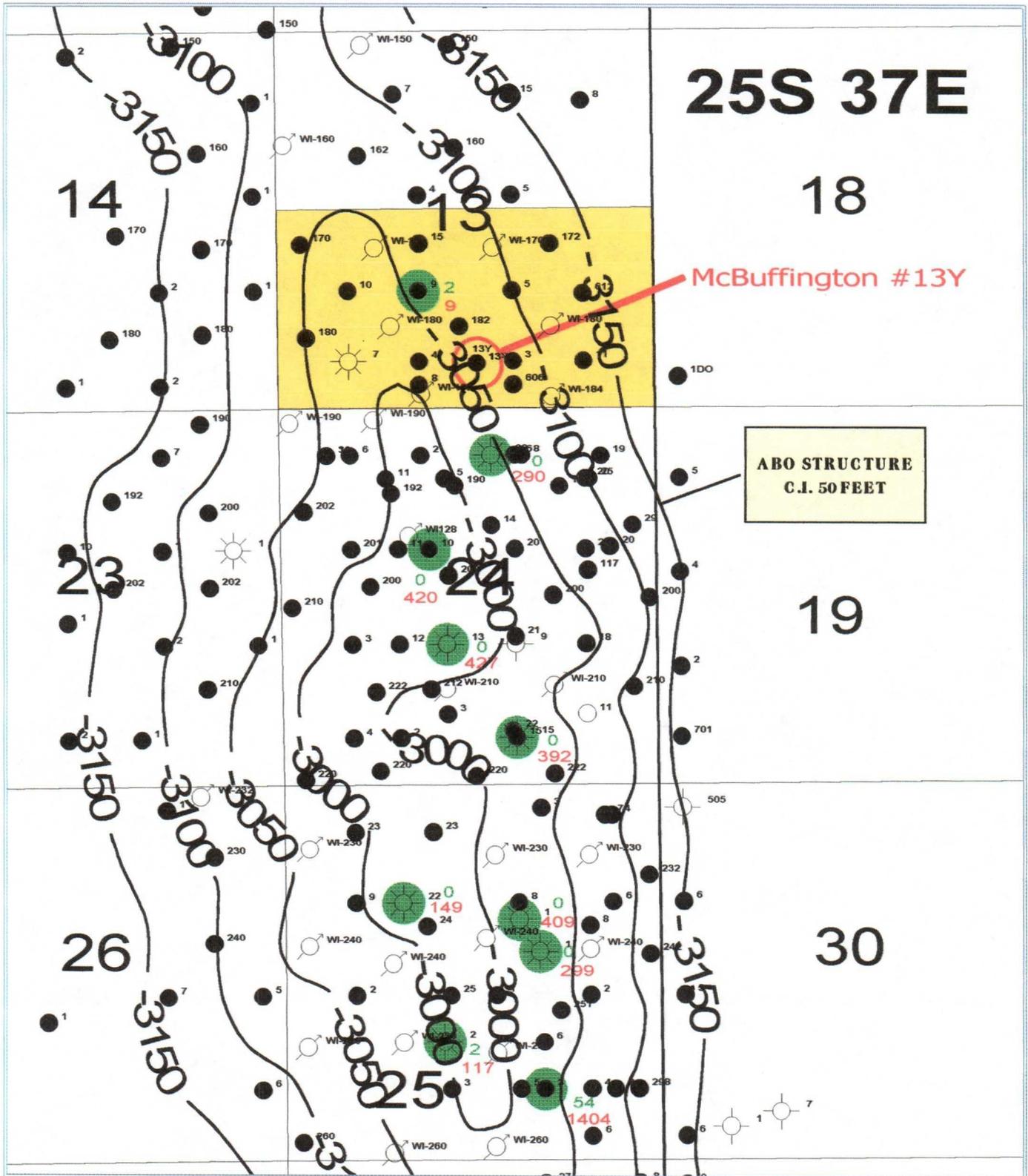
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
12 Dedicated Acres 40	13 Joint or Infill	14 Consolidation Code	15 Order No.						

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	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 Cathy Tomberlin Printed Name Operation Tech Title 06/19/00 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 _____				

- - - 2490 - - -

- - - 630 - - -



25S 37E

18

McBuffington #13Y

ABO STRUCTURE
C.I. 50 FEET

19

30

LEGEND



CUM MBO ABO PRODUCTION

CUM MMCFG



ARCH LEASEHOLD

ARCH PETROLEUM INC
LEARCY MCBUFFINGTON LEASE
Lea County, New Mexico

ABO PRODUCERS

JUSTIS, JUSTIS CENTRAL, & MID JUSTIS FIELDS
G. Curry CI = 50' 1" = 2000'

CMD : ONGARD 08/17/00 08:50:07
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TQGF

OGRID Idn : 962 API Well No: 30 25 35004 APD Status(A/C/P): A
Opr Name, Addr: ARCH PETROLEUM INC Aprvl/Cncl Date : 04-11-2000
PO BOX 10340
MIDLAND, TX 79702-7340

Prop Idn: 14912 LEARCY MCBUFFINGTON Well No: 13 Y

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: O	13	25S	37E			FTG 630 F S	FTG 2490 F E
OCD U/L	: O		API County	: 25				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): O Cable/Rotary (C/R) : F
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 3077

State Lease No: Multiple Comp (S/M/C) : S
Prpsd Depth : 7500 Prpsd Frmtn : MONTOYA

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

08/17/00 08:48:41
OGOMES -TQGF
PAGE NO: 2

Sec : 13 Twp : 25S Rng : 37E Section Type : NORMAL

L 40.00 Fee owned U A A A	K 40.00 Fee owned U A A A	J 40.00 Fee owned U A A A A	I 40.00 Fee owned U A A
M 40.00 Fee owned U A A A	N 40.00 Fee owned U A A A A A	O 40.00 Fee owned U A A A A A A	P 40.00 Fee owned U A A A

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12