Budget 6	Bureau No. 1004-013
Expires:	December 31, 1991

NITED STATES P. O. BOX 13

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT 4-01-97 KAM

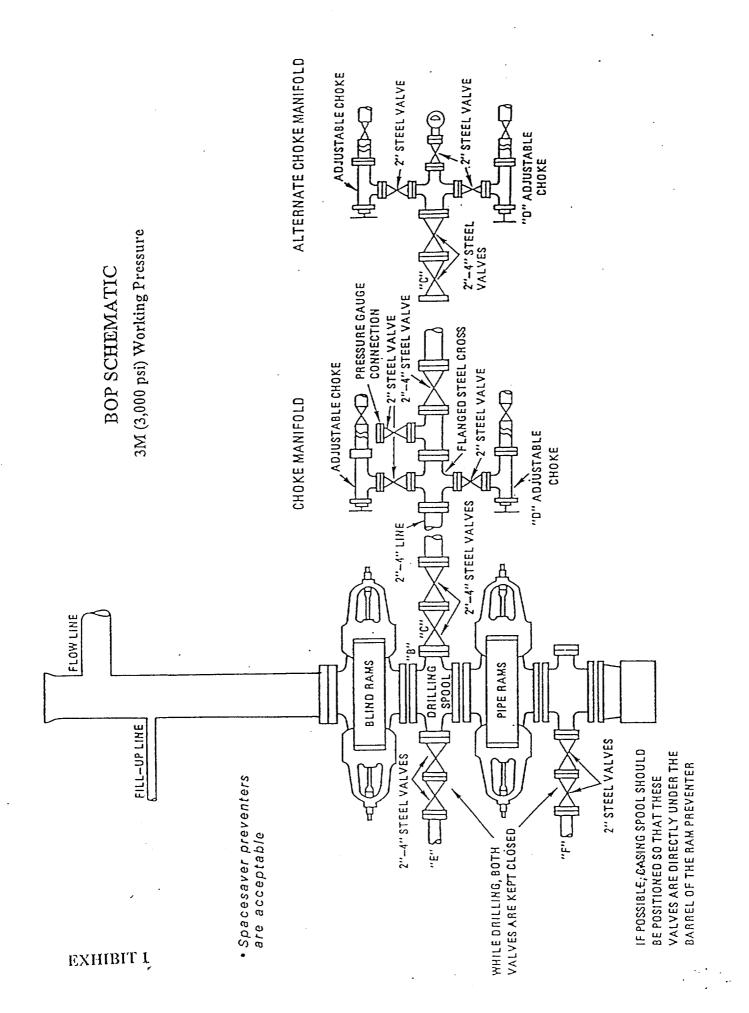
5. LEASE DESIGNATION AND SERIAL NO.

NMLC - 030187

	A BBI TA	THAI		RMIT TO D	TIIO	ر الا هم	EEDEN	) routi)	<u> </u>	6. IF INDIAN, ALLOTTEE OR	TRIBE NAME
1a. TYPE OF WORK	APPLIC	AHON	FUR PER	KIVIII TO D	MILL	OK DI					•
	DRILL	X		DEEPEN						7. UNIT AGREEMENT NAME	
b. TYPE OF WELL	] GAS					INGLE		MULTIPLE ZONE		8. FARM OR LEASE NAME, WELL I	NO.
WELL	WELL		OTHER		z	ONE		20142	<u> </u>	C. E. LAMUNYON #62	!
2. NAME OF OPERATO ARCH PETROLE										9. API WELL NO.	
3. ADDRESS AND TEL							<del></del>			30-025-	
10 DESTA DRIVE	E, STE. 420E									10. FIELD AND POOL, OR W	
4. LOCATION OF WEL				any State requiremen	nts.*)					TEAGUE PADDOCK-	BLINEDRY
At surface UN	IIT E, 1350' F	FNL, 1300' l	-WL							11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zone	•				.,					SEC. 21, T23S, R37E	<del></del>
14. DISTANCE IN MILE	ES AND DIRECT	ION FROM NE	AREST TOWN OF	R POST OFFICE*						12. COUNTY OR PARRISH	13. STATE
10 1/4 MILES SC										LEA	NM
15. DISTANCE FROM					16. NO	OF ACRE	S IN LEASE		17. NC	). OF ACRES ASSIGNED	
LOCATION TO NEARE					İ				то	THIS WELL	
PROPERTY OR LEAS			1300'				1:	520		20	
(Also to nearest drig. u		CATION*			19. PF	OPOSED D	EPTH		20. RC	TARY OR CABLE TOOLS	
TO NEAREST WELL,											
OR APPLIED FOR, ON			764'				6000'			ROTARY	
21. ELEVATIONS (Sho	ow whether DF, F	RT, GR, ect.)							<u> </u>	22. APPROX. DATE WORK W 05/15/97	VILL START*
				3315'			·			05/15/97	
23.				PROPOSED CA	ASING AN	D CEMEN	TING PROGE	RAM			
SIZE OF HOLE	GRADE, S	IZE OF CASIN	3 V	VEIGHT PER FOOT			SETTING DEA	TNESS	╂—	QUANTITY OF CEME	NT
12-1/4"	K-55, 8-5/	8"		24#		1075'	611	THEOR	┼—	600 sx.Cl. 'C' circ. 1650 sx.Cl. 'C' circ.	
7-7/8"	J-55, 5-1/	2"		15.5#		6000'	W	<u>itness</u>	ļ	1650 SX.CI. C CIIC.	
Wie n	1.2 t	- 6		C == = 4	-17 C	~ CX 0		( Leei-	· /-	The I for	- Loud
· iXX	7000		(	/	ĺ		9	4760	) 6	in 64 9063	
Mu	ud Program:				PER. O		10 <i>_</i> _	000	-		9
					POPER	TY NO.	14	<u> </u>			
			- 9.0#/gal., 32	P1	OOL CO	DE	58	3 <i>00</i>			
			28 visc., 10 p /ga., 30 visc.,		F. DAT	re 4	5/9	197			
50	U-6UUU BVV	Statut 10 #	/ga., 50 visc.,			40		1- 276	75-9	<b>5</b>	
Se	e attached E	BOP drawin	g for 3000 psi	system.	PI NO	<i>50</i> :		9 331	) حد		
										Managed in to drill or	
IN ABOVE SPACE DE	SCRIBE PROPO	OSED PROGRA ta on subsurfac	VM: If proposal is to locations and me	to deepen, give data easured and true ver	on present tical depths.	Give blowo	one and propos ut preventer pr	ogram, if any.	1 20118.	ir proposariis to diffii oi	
24	2	. 1	4							/ /	
SIGNED	elelui	Dio	aho_	TITLE	Pro	duction	Analyst			DATE 3/2//9	? 7
(This space for Fed	deral or State off	ice use)									
PERMIT NO		• .				PPROVAL D					
			at the applicant hol	ds legal or equitable	title to those	rights in the	subject lease	which would entitle	the ap	olicant to conduct operations th	ereon.
CONDITIONS OF			ለ እ ነለኮሮሞ		1:11	- 1 1	ADM,	MINERALS	3	DATE 4	91
APPROVED BY_	(ORIG. SGD.	) AKMANU	U A. LUPEZ	TITLE <i></i> _	<u> </u>					DATE	<u>'</u>

\*See Instructions On Reverse Side Title 18 U.S.C. Section 1001, makes 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.





DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

# State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT IV

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

P.O. BOX 2068, SANTA FE, N.M. 87504-2088

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 33959	API Number Pool Code 58300		Name BLINEBRY
Property Code		perty Name AMUNYON	Well Number
014898 ogrid No.		rator Name	62 Elevation
000962	ARCH PETI	ROLEUM INC.	3315

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	21	23 S	37 E		1350	NORTH	1300	WEST	LEA

#### 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
Dedicated Acres		r Infill Co	nsolidation (	Code Ore	der No. NSL-	3793		I	<u>L </u>

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

OR A NON-	STANDARD UNIT HAS BEEN A	PPROVED BY THE DIVISION
1350'		OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and bettef.
3317.8' 3315.6' 1300: 3318.1'		Bollue Brooks  BOBBIE BROOKS  Printed Name
		PRODUCTION ANALYST Title 4-4-97 Date
		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 supervison, and that the same is true and correct to the best of my belief.
		MARCH 10, 1997  Date Surveyed DMCC  Signature & Seaf Oc.  Processional Surveyor
		1 4 4 3 4 12-97 67-12-97 67-12-97
2		Certificate No. JOHN WONEST 676 RONALD I EIDSON 3239 POFESSION DOSON 12641

DISTRICT I P.O. Box 1986, Hobbe, WM 88241-1980

#### State of New Mexico

Energy, Minerals and Natural Resources Dep-

Form C-102 Revised February 10, 1994

State Lease - 4 Copies Fee Lease - 3 Copies

Submit to Appropriate District Office

DISTRICT II P.O. Drawer DD. Artesia, NM 88211-0719

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

P.O. BOX 2086, SANTA FE, N.M. 87504-2088

DISTRICT IV

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Naz	
30-025-	58300	TEAGUE PADDOCK-BLINEB	
Property Code	•	perty Name	Well Number
014898		MUNYON	62
OGRID No.		rator Name	Elevation
000962		ROLEUM INC.	3315

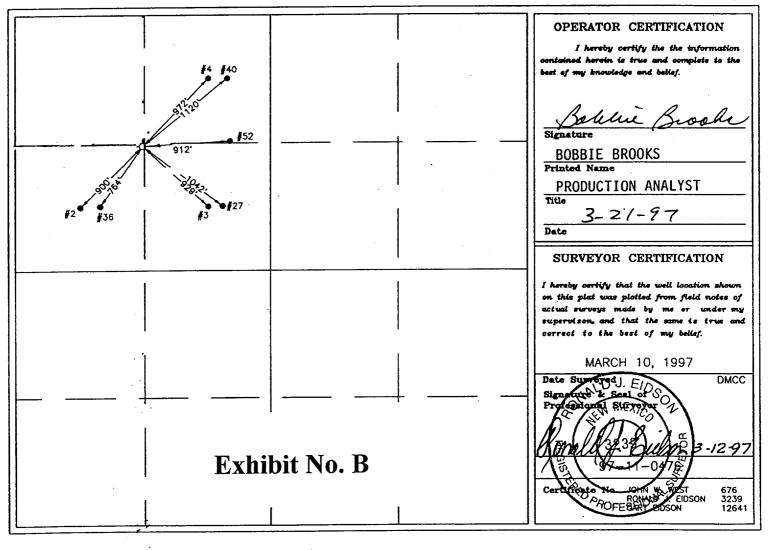
#### Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	E	21	23 S	37 E		1350	NORTH	1300	WEST	LEA

#### Bottom Hole Location If Different From Surface

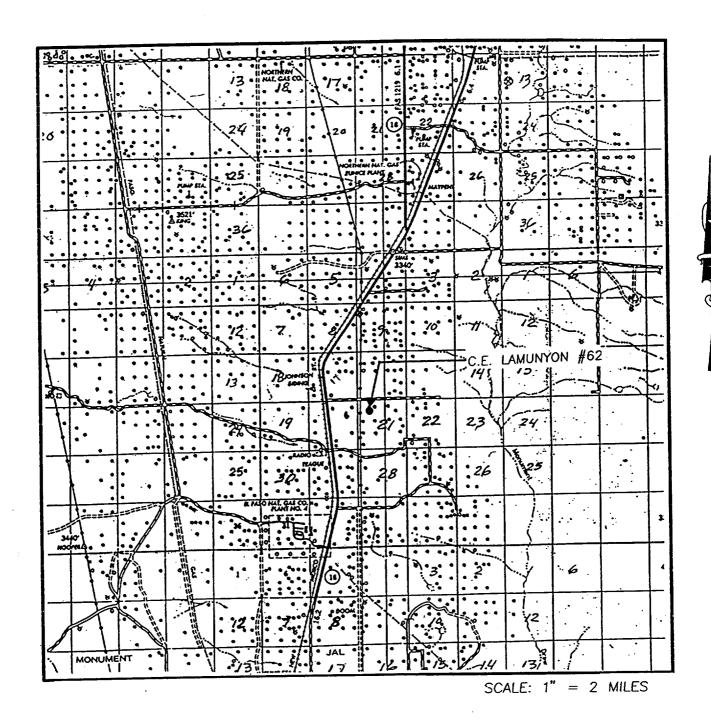
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code Or	der No.		,		
20	Inf	ill							

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





# VICINITY MAP



 SEC. \_\_21\_\_TWP.\_23\_S\_\_RGE.\_\_37\_E

 SURVEY\_\_\_\_\_\_N.M.P.M.

 COUNTY\_\_\_\_\_\_\_LEA

 DESCRIPTION\_\_1350'\_FNL & 1300'\_FWL

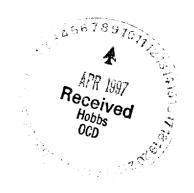
 ELEVATION\_\_\_\_\_\_\_3315

OPERATOR ARCH PETROLEUM INC.

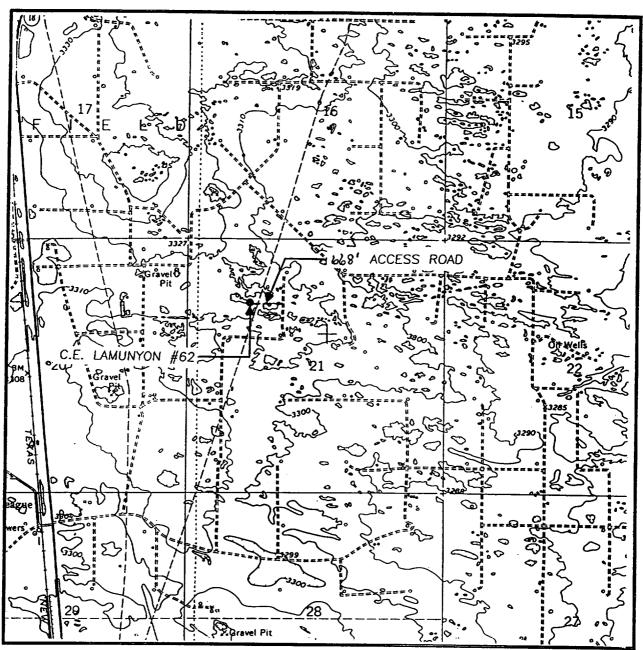
LEASE C.E. LAMUNYON

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

Exhibit No. C



# LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

CONTOUR INTERVAL: RATTLESNAKE CANYON - 10'

SEC. 21 TWP. 23-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1350' FNL & 1300' FWL

ELEVATION 3315

OPERATOR ARCH PETROLEUM INC.

LEASE C.E. LAMUNYON

U.S.G.S. TOPOGRAPHIC MAP

RATTLESNAKE CANYON, N.M.

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

Exhibit No. D

#### **DRILLING PROGRAM**

C. E. LAMUNYON #62, 63, 64 & 65 Arch Petroleum Inc. Sections 21, 27, and 28, T23S, R37E Lea Co., New Mexico

1. Geologic Name of Surface Formation: Quaternary

#### 2. <u>Estimated Tops of Geologic Markers</u>:

Rustler 1,030'	7 Rivers 2,780'	Paddock 4,950'
Top Salt 1,130'	Penrose 3,375'	T/Blinebry 5,290'
Base Salt 2,365'	Grayburg 3,555'	B/Blinebry 5,850'
Yates 2,535'	San Andres 3,800'	Tubb 5,950'

# 3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Fresh Water 300'-500' Penrose 3,375'-3,550' Paddock 4,950'-5,290' Blinebry 5,290'-5,950'

#### 4. <u>Casing Program:</u>

<u>Casing</u>	Hole Size	<u>Weight</u>	<u>Grade</u>	Setting Depth
Surface	8 5/8"	24#	K-55	1,075'
Production	5 1/2"	15.5#	J-55	6,000'

# Cement Program:

- (a) Surface casing will be 8-5/8" set at 1075' and cemented with 400 sacks of Class 'C' lead cement and 200 sacks of Class 'C' tail cement.
- (b) Production casing will be 5-1/2" set at approximately 6,000' and cemented in one stage with approximately 1150 sacks of Class 'C' lead cement and 500 sacks of tail cement. Exact volumes to circulate to surface to be determined by caliper log.

#### 5. <u>Pressure Control Equipment:</u>

The minimum specifications for pressure control equipment can be seen on the attached Exhibit 1 for a blowout preventer hook-up for 3,000 psi working pressure.

# 6. <u>Proposed Mud System:</u>

anticipated.

4

0-1075' fresh water spud mud
1075'-5000' saturated salt water
5000'-6000' salt water polymer with the following properties: Viscosity 30 sec.,
water loss 10 cc or less, weight 10 ppg with 5% KCl. Heavier weight mud will be used
if required by well condition. 10 ppg brine is only used to minimize salt washout and
formation damage and not for well control. No significant well control problems are

#### 7. Logging, Testing, and Coring Program:

- (a) Formation testing may be done at any depth where samples, drilling rate, or log information indicates a possible show of oil or gas.
- (b) Open hole logs will be run at total depth
- (c) Plans are to possibly core one of these wells in the Blinebry.

# 8. Abnormal Conditions, Pressures, Temperatures, and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated Bottom Hole Temperature (BHT) at TD is 115°F and estimated maximum Bottom Hole Pressure (BHP) is 3000 psig. Hydrogen sulfide is not considered to be a significant safety hazard since well control should not be a problem. In anticipation of encountering H<sub>2</sub>S gas, Exhibit 2 is the Plan of Operation for H<sub>2</sub>S Drilling. No major loss circulation zones have been reported in offsetting wells.

#### 9. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date should be May 1, 1997. Once commenced, the drilling operation should be finished in approximately 15 days per well. The time required to complete and test the well will be about 30 days per well.

#### 10. Other Facets of the Proposed Operation: None.