

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 III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, 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 30-025-33134	Pool Code 58300	Pool Name Teague Blinebry
Property Code 14898	Property Name C.E. LAMUNYON	Well Number 52
OGRID No. 962	Operator Name ARCH PETROLEUM, INC.	Elevation 3316

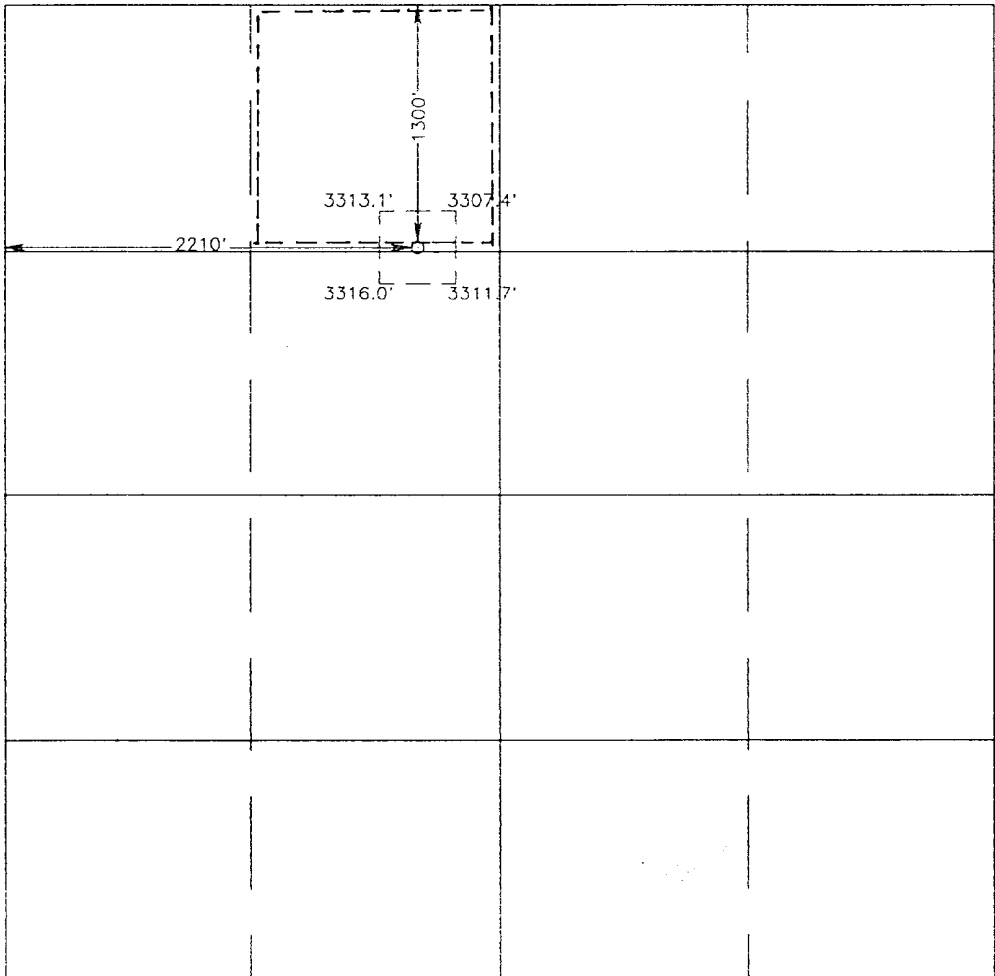
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	23 S	37 E		1300	NORTH	2210	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 40	Joint or infill	Consolidation Code	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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Bobbie Brooks</i> Signature</p> <p>BOBBIE BROOKS Printed Name</p> <p>PRODUCTION ANALYST Title</p> <p>AUGUST 3, 1995 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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>JUNE 6, 1995 Date Surveyed</p> <p><i>Ronald F. Eidson</i> Signature & Seal of Professional Surveyor</p> <p>W.O. Num. 95-14-20887</p> <p>Certificate No. JOHN W. WEST 676 RONALD F. EIDSON 3239 DARY EIDSON 12641</p>
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DRILLING PROGRAM

C. E. LAMUNYON #51, 52, 53
Arch Petroleum Inc.
Sections 21 and 22, T23S, R37E
Lea Co., New Mexico

1. Geologic Name of Surface Formation: Quaternary

2. Estimated Tops of Geologic Markers:

Rustler 1,030'	Queen 3,260'	Glorieta 4,960'
Top Salt 1,150'	Penrose 3,350'	T/Blinbry 5,220'
Base Salt 2,350'	Grayburg 3,525'	B/Blinbry 5,850'
Yates 2,490'	San Andres 3,780'	Tubb 5,950'

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

Fresh Water 300'-500'
Glorieta 4,960'-5,220'
Blinbry 5,220'-5,850'

4. Casing Program:

<u>Casing</u>	<u>Hole Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting Depth</u>
Surface	8 5/8"	24#	K-55	1,150'
Production	5 1/2"	15.5#	J-55	6,000'

Cement Program:

- (a) Surface casing will be 8-5/8" set at 1150' and cemented with 675 sacks of Class 'C' with 2% CaCl₂.
- (b) Production casing will be 5-1/2" set at approximately 6,000' and cemented in two stages with a DV tool at 3,200'. First stage will be Class 'C' with 16% gel, 2% salt, and 0.2% CLS followed by Class 'C' with 0.5% CFR-2. Second stage will be Class 'C' with 16% gel followed by Class 'C' neat. Volumes to be determined by caliper log to circulate cement to surface.

5. Pressure Control Equipment:

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.



Drilling Program

6. Proposed Mud System:

0-1150' fresh water spud mud

1150'-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 anticipated.

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 conventionally core one of these wells in the Blinbry.

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 H₂S gas, Exhibit 2 is the Plan of Operation for H₂S Drilling. No major loss circulation zones have been reported in offsetting wells.

9. Anticipated Starting Date:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date should be October, 1995.

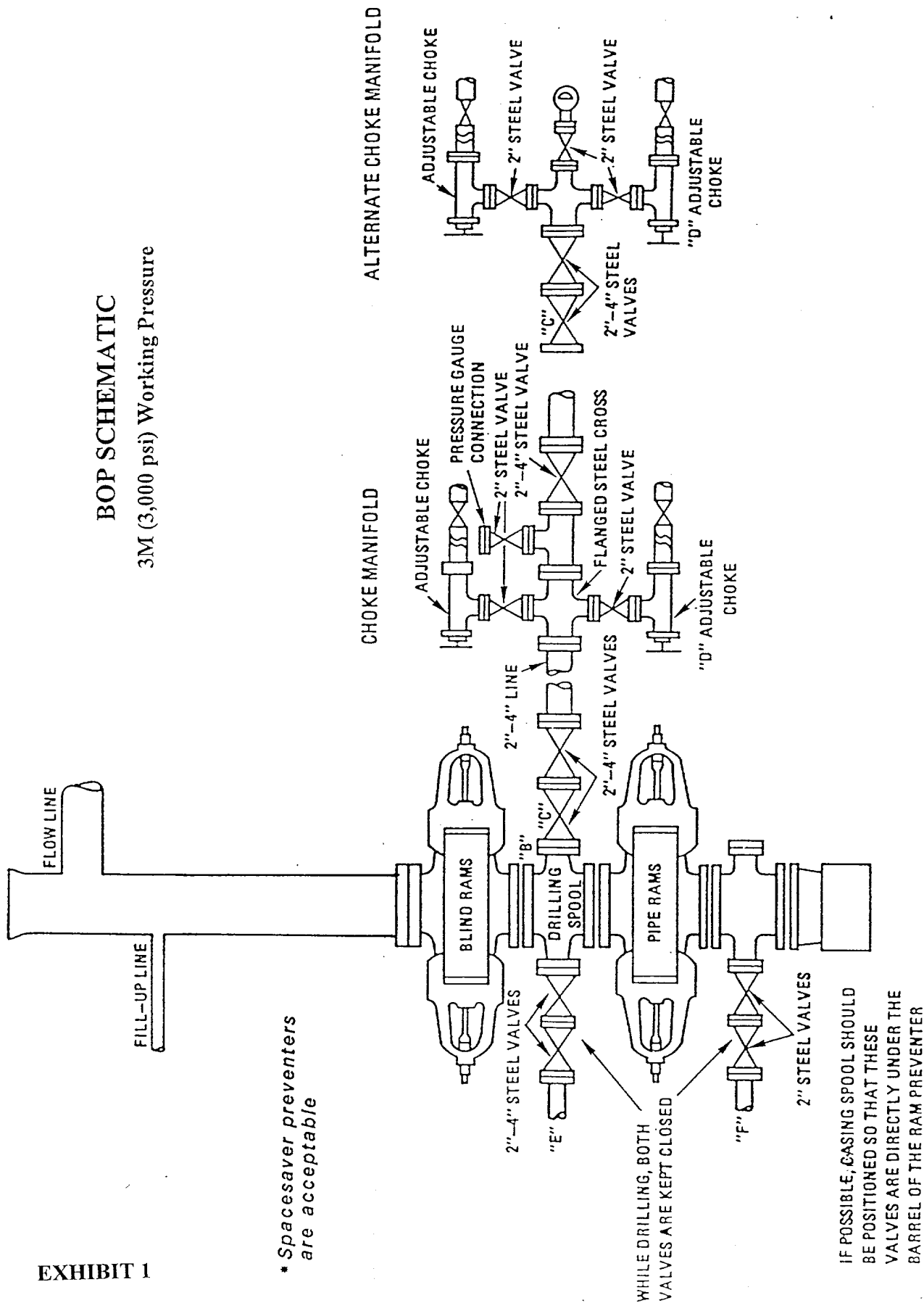
10. Other Facets of the Proposed Operation: None.

12/21/95



EXHIBIT 1

BOP SCHEMATIC 3M (3,000 psi) Working Pressure



12/21/95

