

Form 3160-3  
(November 1983)  
(formerly 9-331C)

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.  
LC-029389-a

6. IF INDIAN, ALLOTTEE OR TRIBE, NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Baish Federal

WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
N. Shugart (Bone Springs)

11. SEC. T., R., N., OR S.E. AND SURVEY OR AREA  
Sec. 9-18S-31E

12. COUNTY OR PARISH 13. STATE  
Eddy NM

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER   
SINGLES ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
ARCO Oil and Gas Co.

3. ADDRESS OF OPERATOR  
P.O. Box 1610, Midland, TX 79702

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FEB 19 1987  
O. C. D.  
ARTESIA, OFFICE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 660' FNL & 660' FEL (Unit Letter A)  
At proposed prod. zone (Same as Above)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
8 miles Southeast of Loco Hills, New Mexico

16. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any)  
660' FNL

16. NO. OF ACRES IN LEASE  
440

17. NO. OF ACRES ASSIGNED TO THIS WELL  
40

13. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
1320'

19. PROPOSED DEPTH  
8900'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DV, RT, GR, etc.)  
GR 3719.1'

22. APPROX. DATE WORK WILL START\*  
ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5# K-55	680'	650 sx Circ
11"	8-5/8"	24# K-55	2150'	800 sx Circ
7-7/8"	5-1/2"	17# K-55	8900'	1700 sx TOC @ 1500'
		17# N-80		

Propose to drill a North Shugart (Bone Springs) development well and test for commercial production.

Blowout preventor program attached.

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N. SHUGART  
2-20-87

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zones and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventor program, if any.

24. SIGNED [Signature] TITLE Drilling Engineer DATE 2-5-87

(This space for Federal or State office use)

PERMIT NO. Orig. 304 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 2-17-87

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122  
Superseded C-128  
Effective 10-1-85

All distances must be from the outer boundaries of the Section

Operator ARCO OIL AND GAS COMPANY		Lease BAISH FEDERAL		Well No. 1
Tract Letter A	Section 9	Township 18 SOUTH	Range 31 EAST	County EDDY
Actual Well Location of Well: 660 feet from the NORTH line and 660 feet from the EAST line				
Ground Level Elev. 3719.1'	Producing Formation Bone Springs	Pool North Shugart - BS	Estimated Acreage 40 Acres	

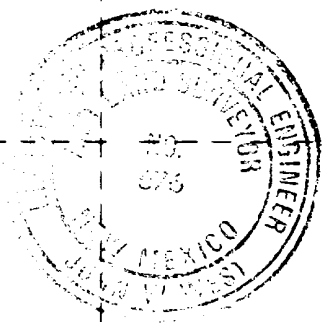
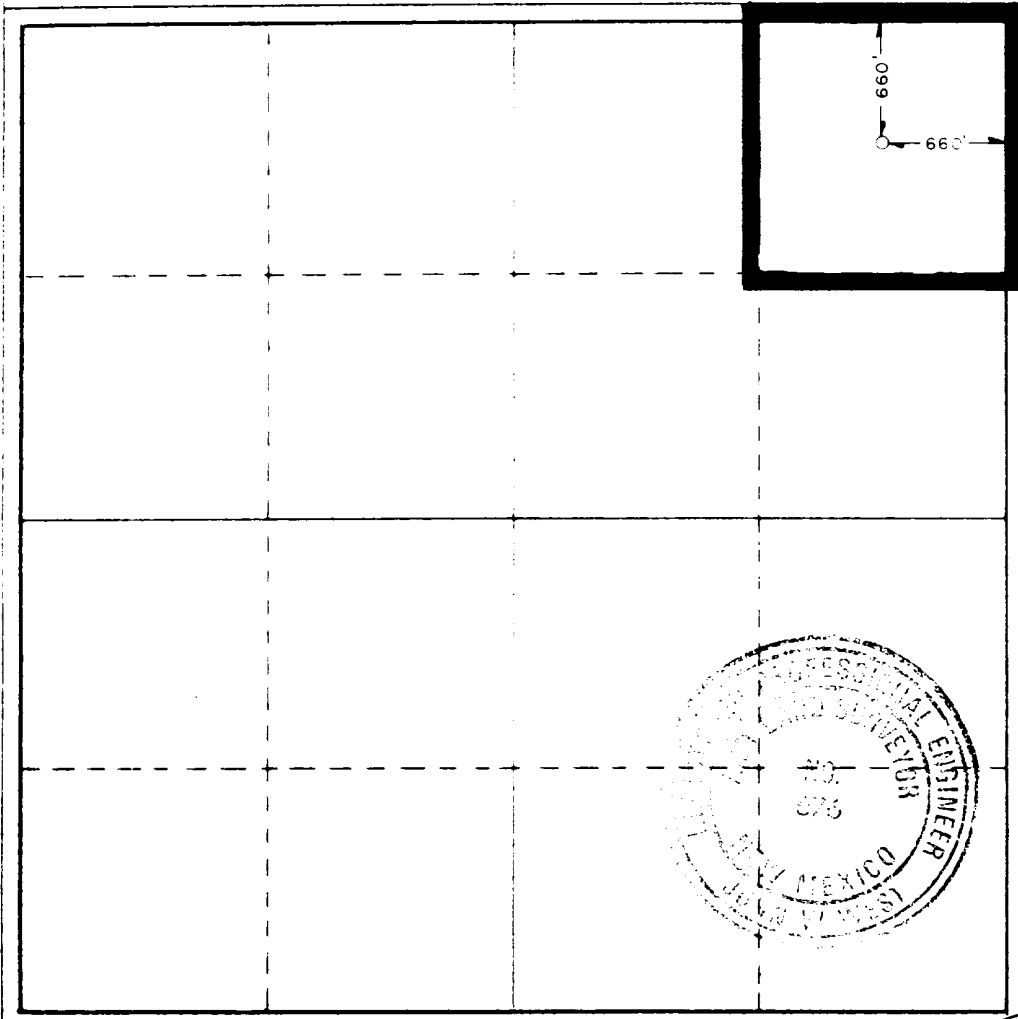
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have not been consolidated. Use reverse side of this form if necessary. \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

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O. C. D.  
ARTESIA OFFICE



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

*Grant Day*

Name  
Drilling Engineer  
Position  
ARCO Oil and Gas Co.

Company  
2-5-87

Date

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 knowledge and belief.

Date Surveyed  
JANUARY 24, 1986

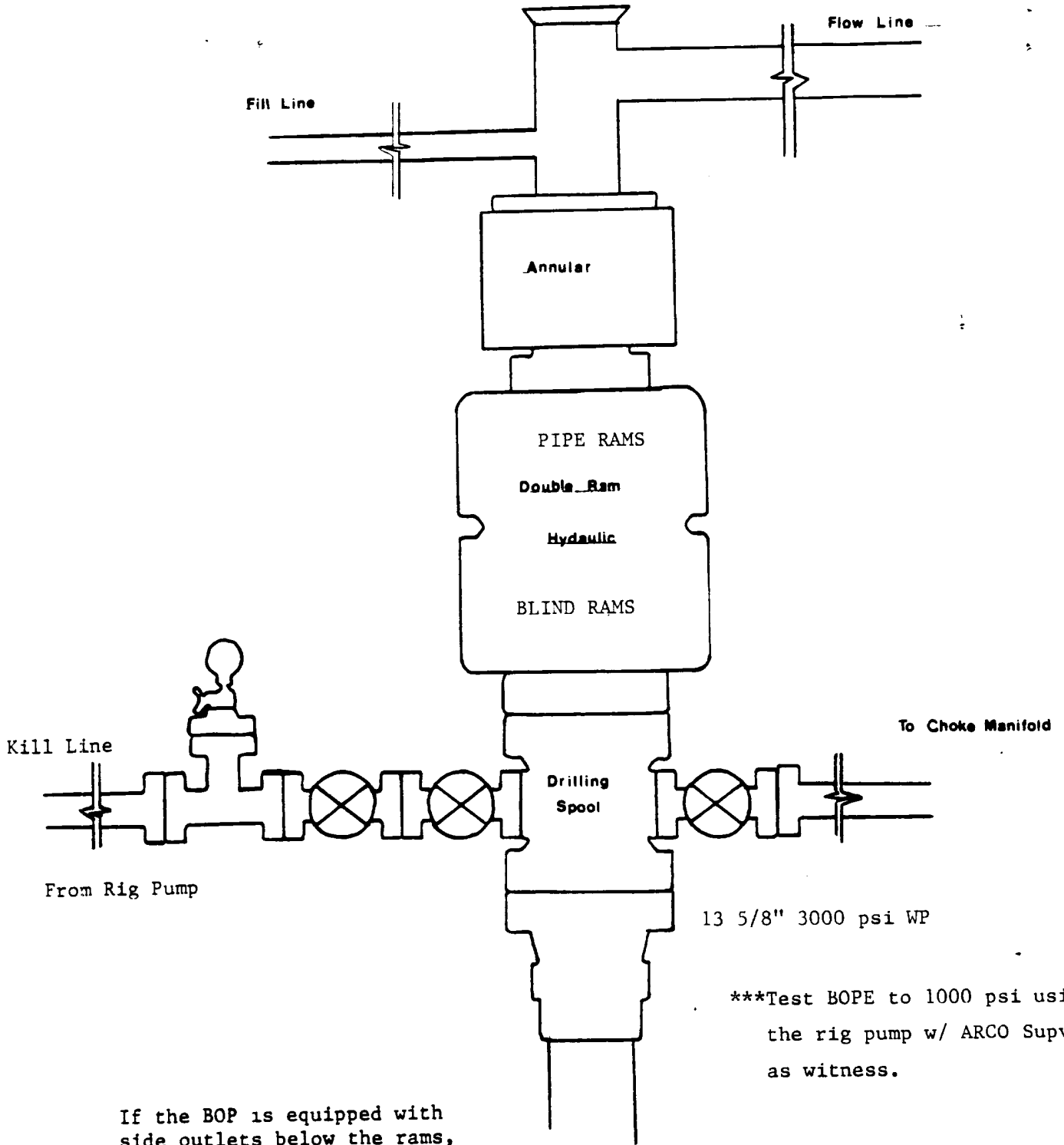
Registered Professional Engineer and Land Surveyor

*John W. West*

Certificate No. JOHN W. WEST, 676  
RONALD J. EIDSON, 3239

96560

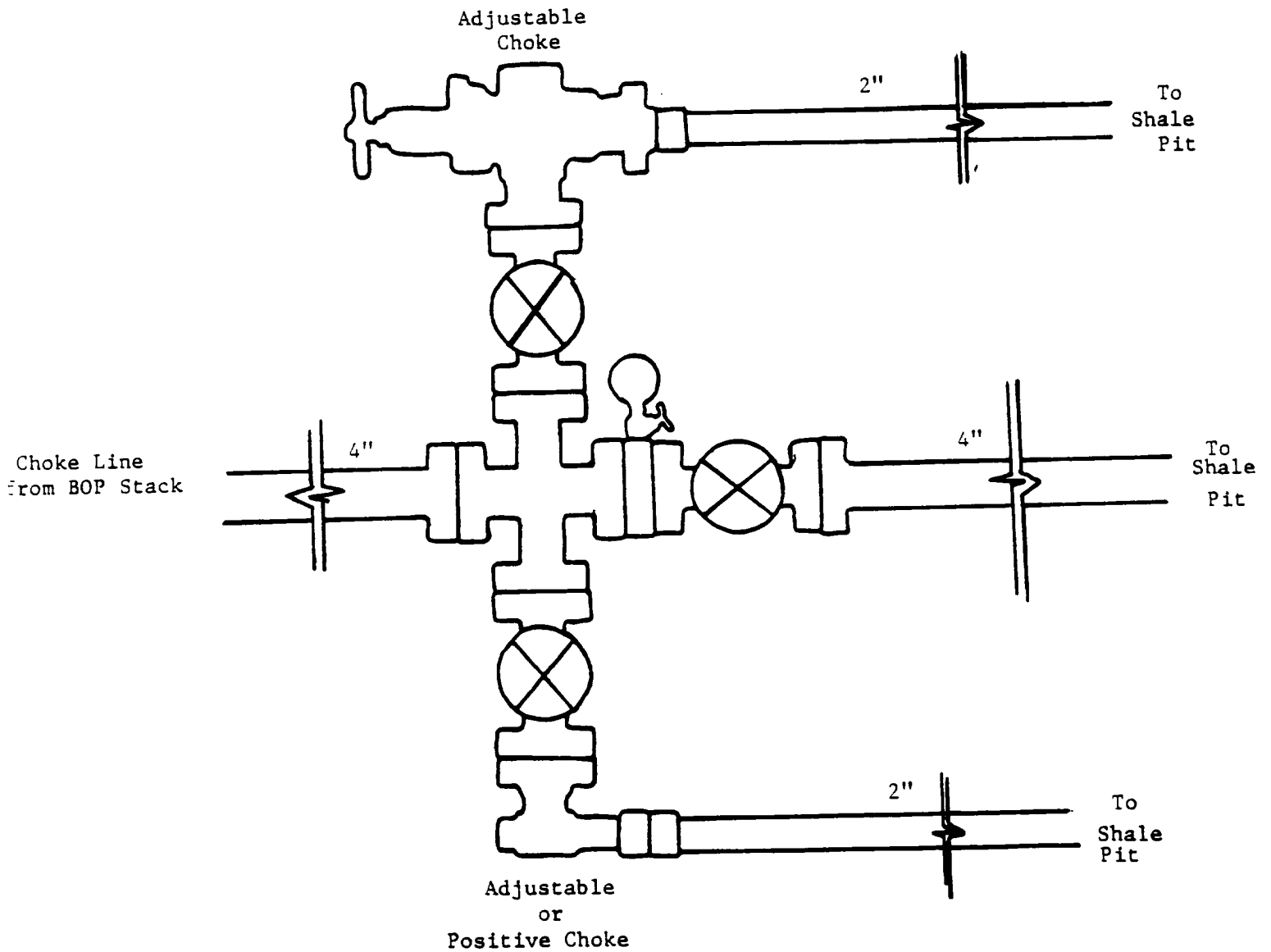
ARCO Oil & Gas  
 3000 psi WP BOP Stack  
 SR<sub>d</sub> A



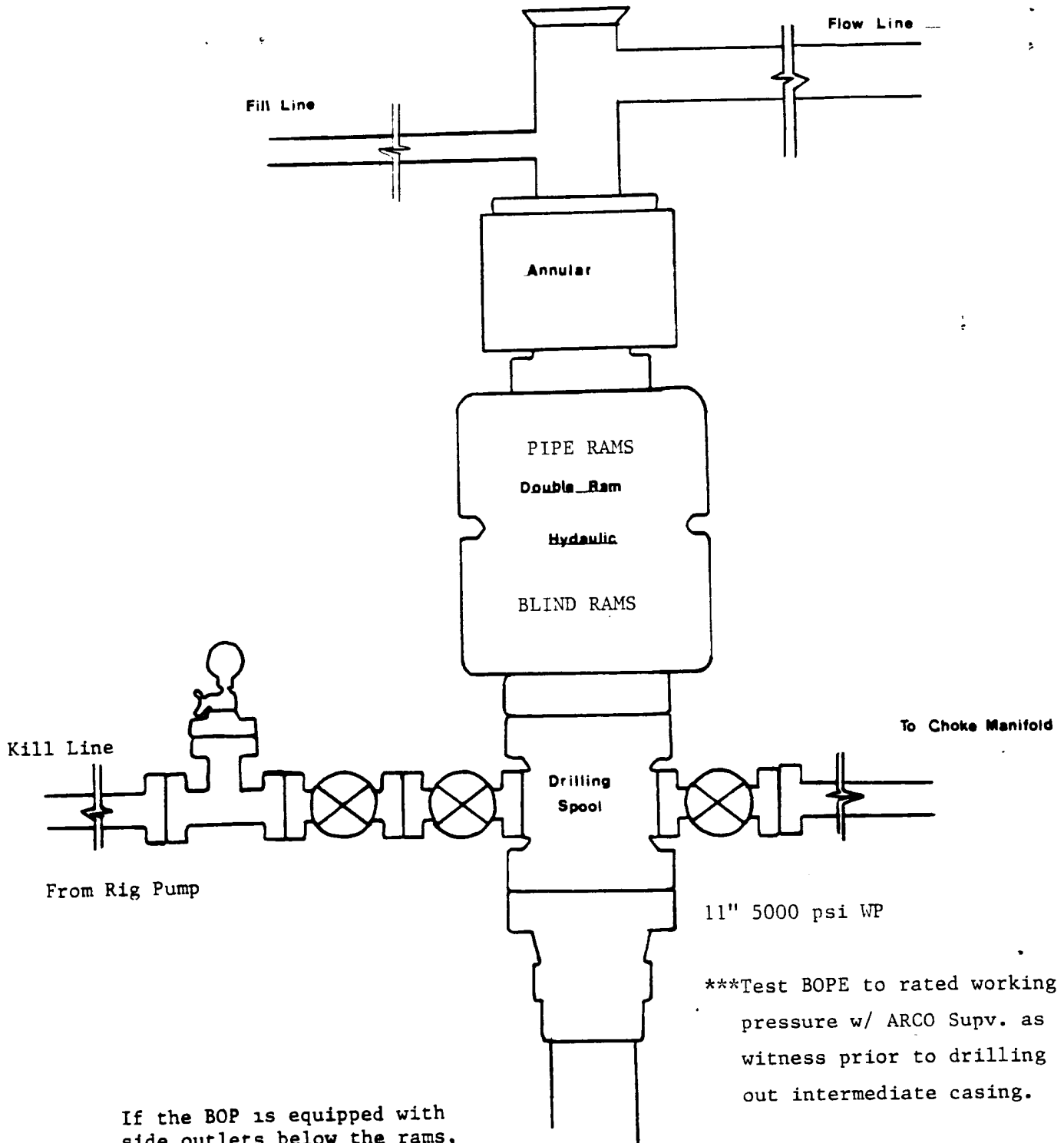
\*\*\*Test BOPE to 1000 psi using  
 the rig pump w/ ARCO Supv.  
 as witness.

If the BOP is equipped with  
 side outlets below the rams,  
 a spool is not required.

ARCO Oil & Gas  
3000psi WP Choke Manifold



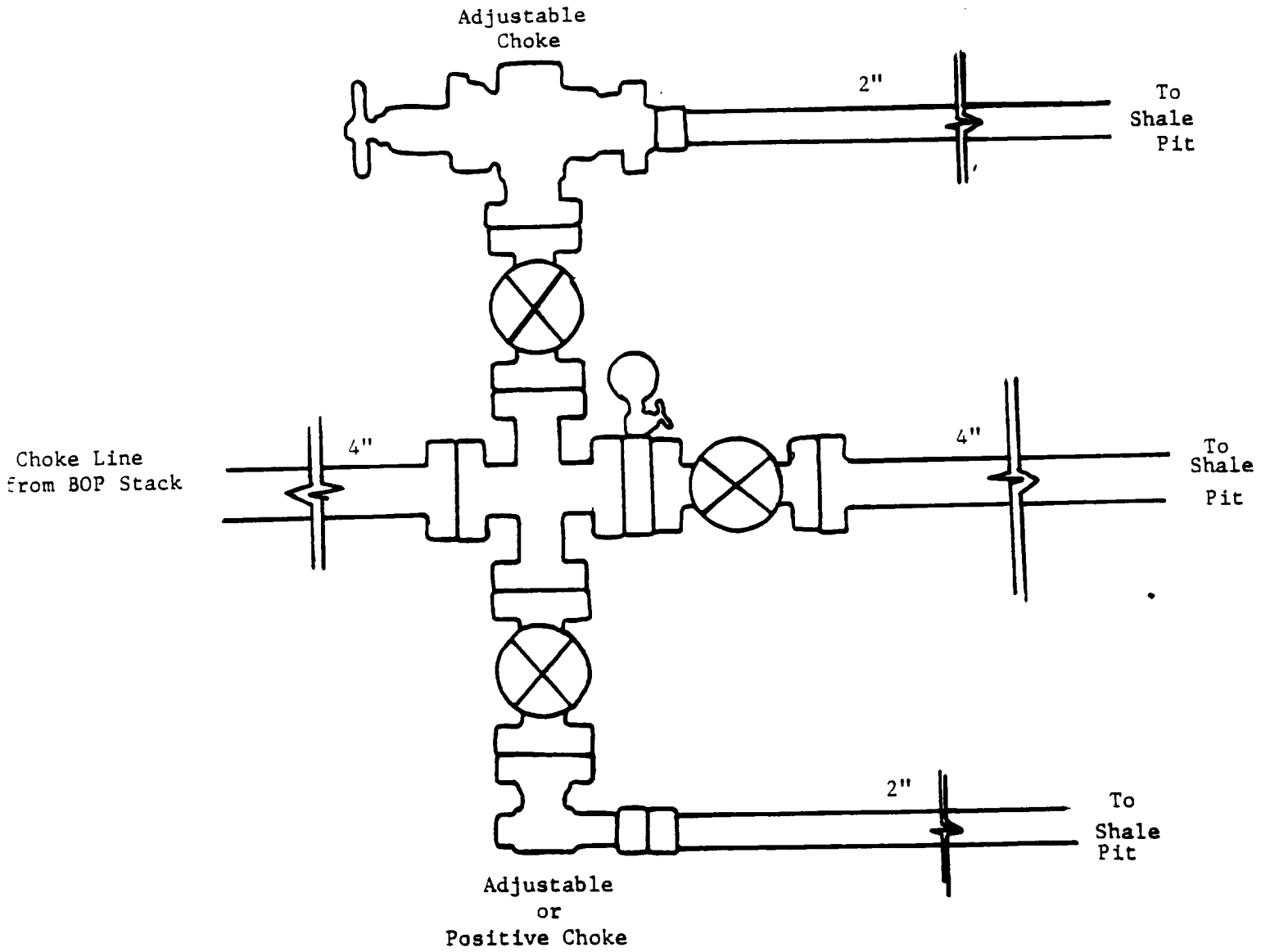
ARCO Oil & Gas  
5000 psi WP BOP Stack  
SR<sub>0</sub>A



If the BOP is equipped with side outlets below the rams, a spool is not required.

\*\*\*Test BOPE to rated working pressure w/ ARCO Supv. as witness prior to drilling out intermediate casing.

ARCO Oil & Gas  
5000psi WP Choke Manifold



To supplement USGS Form 3160-3 " Application for Permit to Drill, Deepen or Plugback", the following additional information is submitted to comply with USGS Order NTL-6.

Operator: ARCO Oil and Gas Company

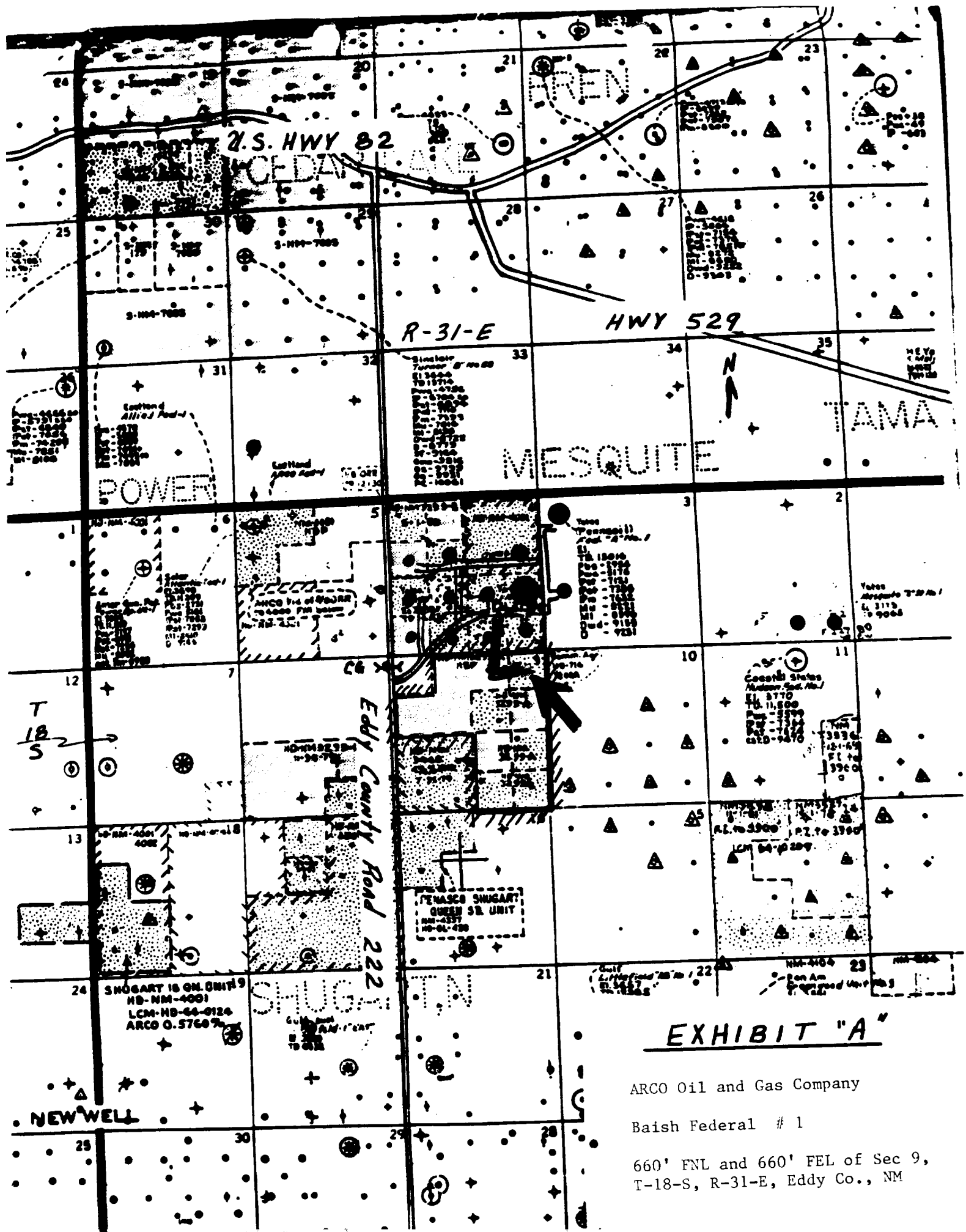
Lease & Well No: Baish Federal #1

Location: Unit Letter A  
Section 9, T-18-S, R-31-E  
Eddy County, New Mexico  
Lease, New Mexico LC - 029389-a  
Development well  X  Exploratory well \_\_\_\_\_

1. See Well Location and Acreage Dedication Plat Form C-102.
2. See Form 3160-3 for elevation above sea level of unprepared location.
3. The geologic name of the surface formation is: Querecho Plains Aeolian material with loose sandy loams and commonly harbor calcareous gravels.
4. The type of drilling tools and associated equipment to be utilized will be: Rotary
5. The proposed drilling depth will be  8900' .
6. The estimated tops of important geologic markers are:

TOS	690'	Queen	3170'
BOS	2000'	San Andres	4200'
Yates	2100'	Bone Springs	5500'
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

Bone Springs Sand 7900' Oil
8. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 3160-3. All strings of casing will be: New  X  Used \_\_\_\_\_.
9. See Form 3160-3 for amount of cement.



**EXHIBIT "A"**

ARCO Oil and Gas Company

Baish Federal # 1

660' FNL and 660' FEL of Sec 9,  
T-18-S, R-31-E, Eddy Co., NM



EXHIBIT "D"

ARCO Oil and Gas Company

Baish Federal # 1

660' FNL & 660' FEL of Sec 9,  
T-18-S, R-31-E, Eddy Co., NM

