

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SE 078478	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR AAA Operating Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 1808 Campbell Centre Dallas, Texas 75206		8. FARM OR LEASE NAME Federal E	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1650' FSL & 1500' FEL At proposed prod. zone Sec. 23-27N-8W		9. WELL NO. 5	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 Miles South		10. FIELD AND POOL, OR WILDCAT Largo Chacra	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23-27N-8W	
16. NO. OF ACRES IN LEASE		12. COUNTY OR PARISH	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE N.M.	
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5961' GR		22. APPROX. DATE WORK WILL START* Immediately	
23. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-3/4	8-5/8	24.0	150
6-3/4	4-1/2	9.5	3300
		QUANTITY OF CEMENT	
		100 sx.	
		500 sx.	

Selectively perforate and sandwater fracture the Chacra formation.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

SE/4 of Section 23 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone 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 preventer program, if any.

24. SIGNED PCW TITLE Owner DATE 4-6-79

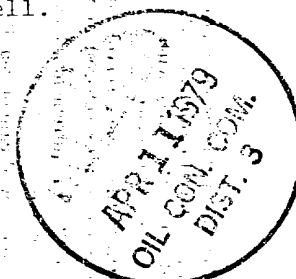
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

NMOCC



All distances must be from the outer boundaries of the Section.

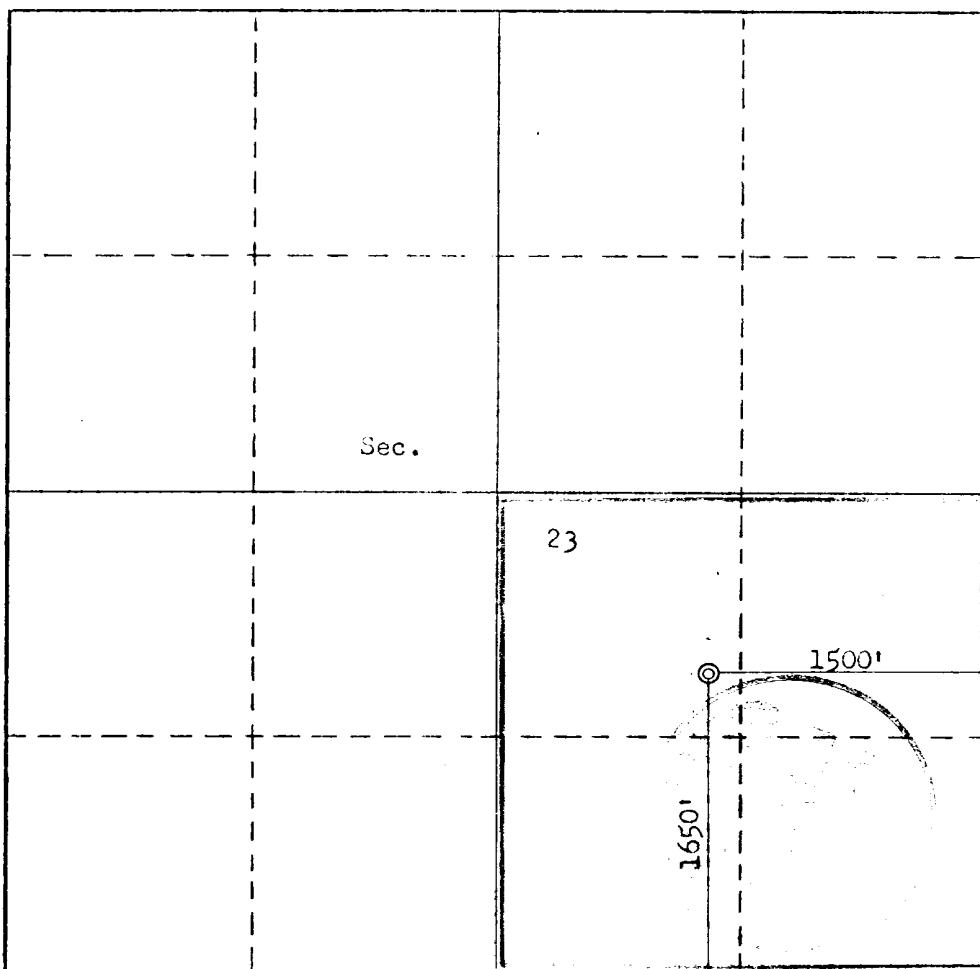
Operator <i>W. H. O'Connell Company</i>		Lease FEDERAL "E"		Well No. <i>265</i>
Unit Letter J	Section 23	Township 27N	Range 8W	County San Juan
Actual Footage Location of Well: 1650 feet from the South line and 1500 feet from the East line				
Ground Level Elev. 5961	Producing Formation Chacra	Pool <i>Largo</i>	Dedicated Acreage: 160 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 actually 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.



CERTIFICATION

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

Name  
*R. C. Wynn*

Position  
*Operator*

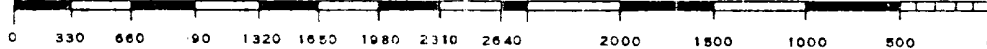
Company

Date  
*4/9/79*

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  
*April 6, 1979*  
Registered Professional Engineer  
and/or Land Surveyor

*Fred B. Kerr*  
Certificate No. *3950*  
*F. B. KERR, JR.*



OPERATIONS PLAN  
Federal E 2-C

I. Location: 1650' FSL & 1500' FEL Section 23-27N-8W San Juan County, N.M.

II. Field: Largo Chacra Elevation: 5961'

A. Formation Tops:	OJO Alamo	390'
	Kirkland	1510'
	Picture Cliffs	2210'
	Lewis	2270'
	Chacra	3185'
	TOTAL DEPTH	3300'

B. Logging Program: IES and GR - NDL

C. Coring Program: None

D. Natural Gauges: Will record all gauges in daily drilling report.

III. Drilling:

A. Mud Program: Mud from surface to TD.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Weight</u>
	12-3/4"	150'	8-5/8"	24#
	6-3/4"	3300'	4-1/2"	9.5#

B. Float Equipment: 8-5/8" surface casing - Larkin guide shoe.

C. Tubing: 3300' of 1-1/4" I.J. with B & R seating nipple on bottom of string.

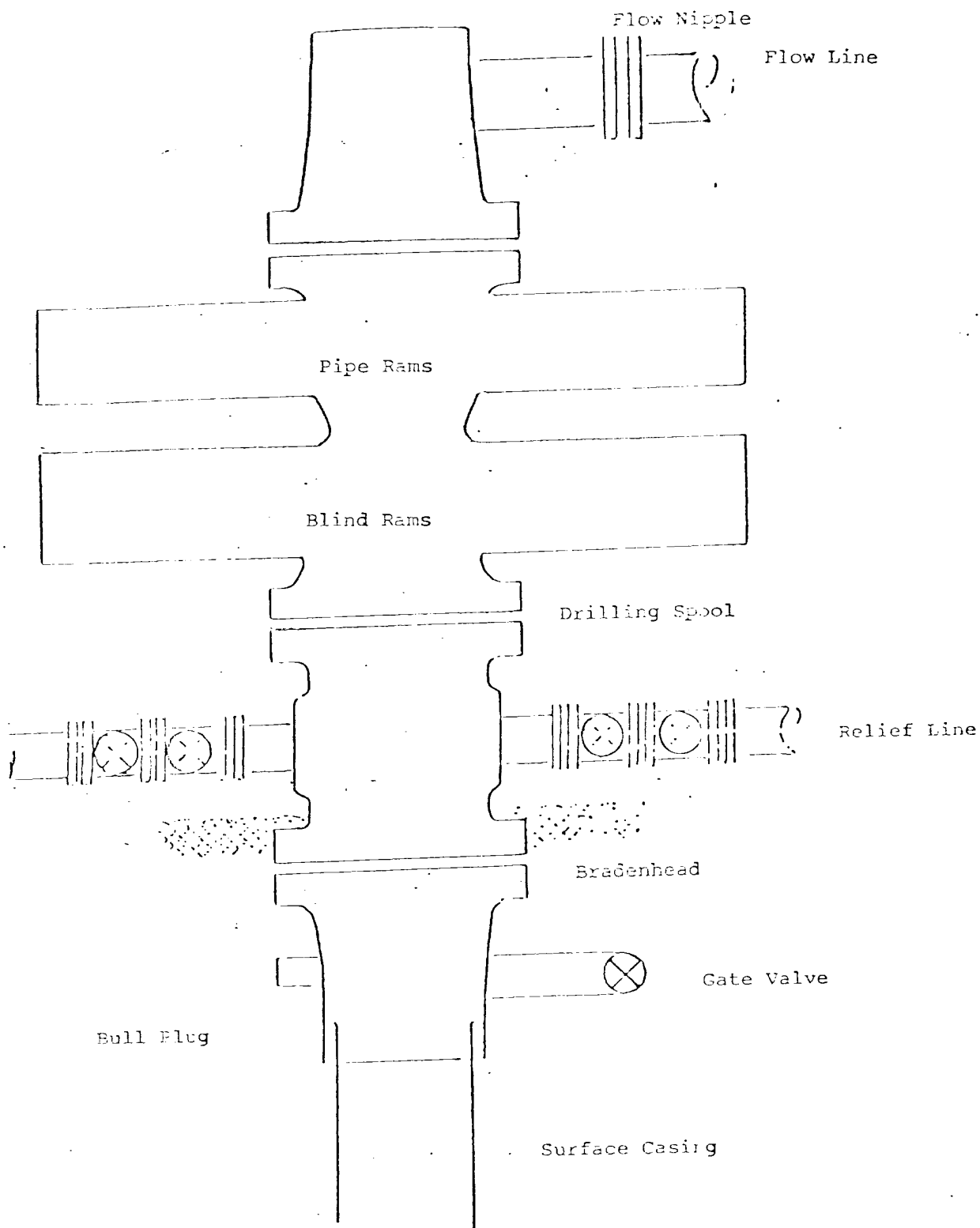
D. Wellhead Equipment: Casing head rector type "R" Nom 8" Body x 8-5/8" od.  
Female.

V. Cementing:

8-5/8" surface casing - use 85 sx and circulate to surface.

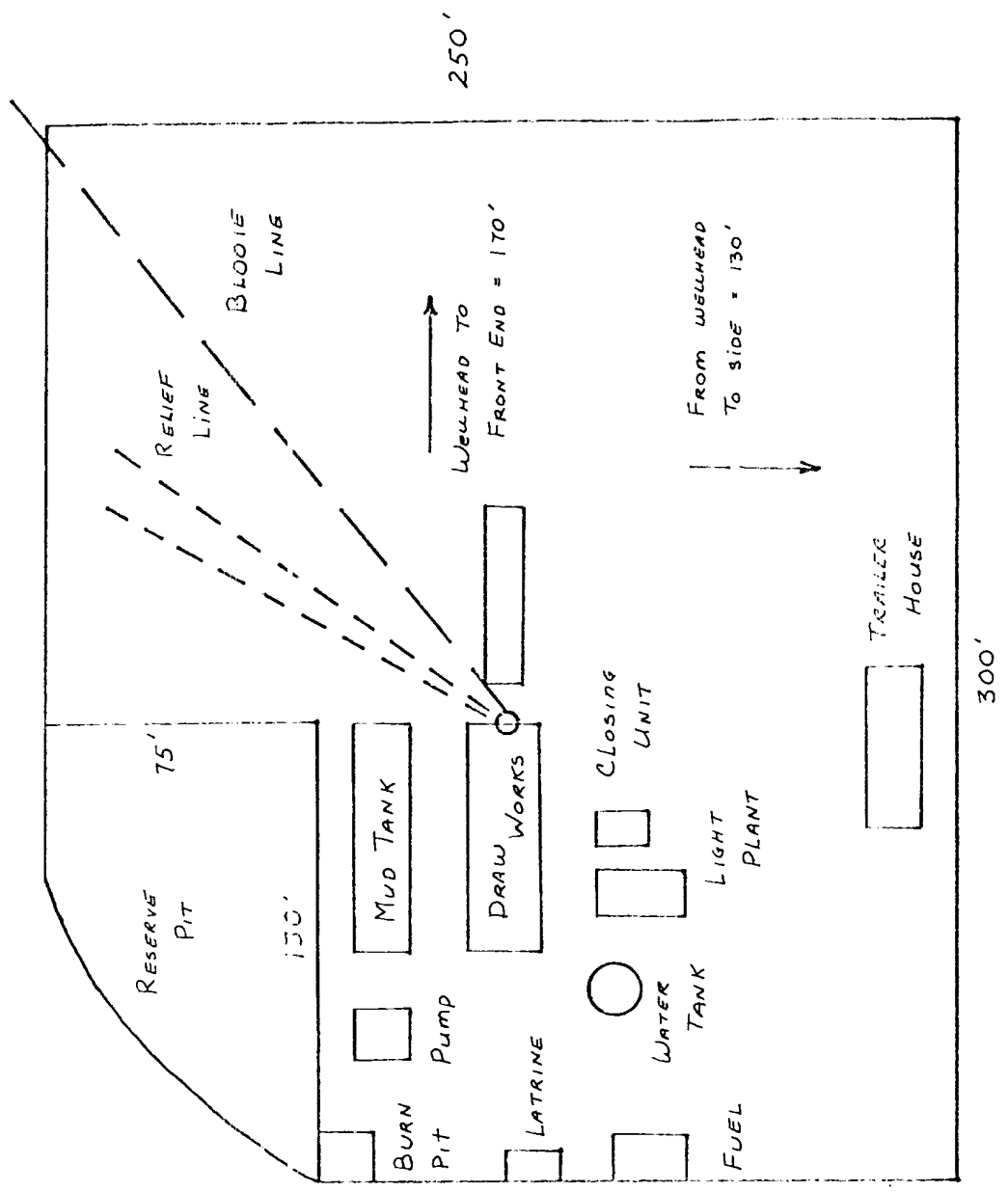
4-1/2" production casing - use 286 sx and circulate to surface.

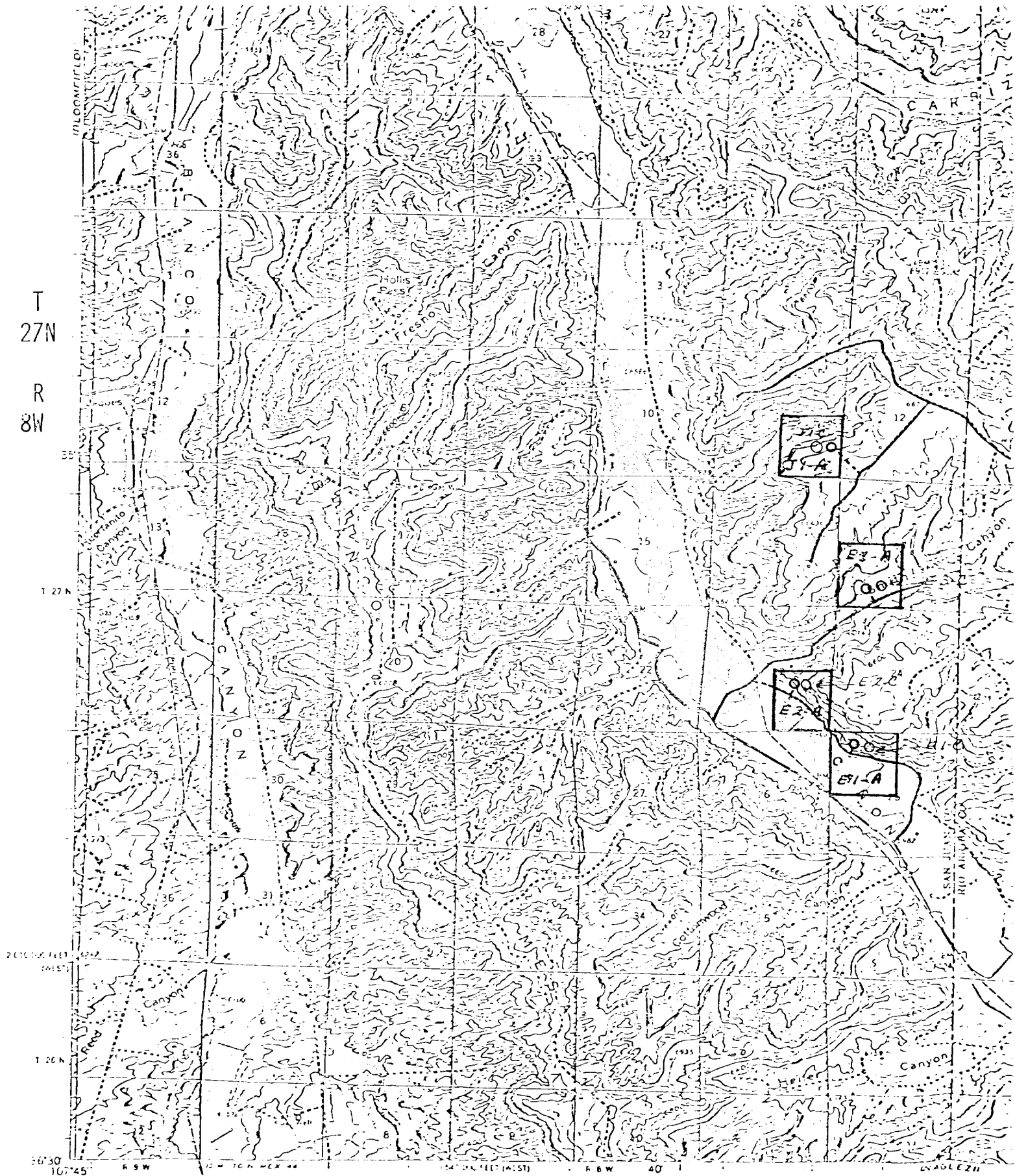
TYPICAL B.O.P. INSTALLATION  
for Chacra Well



Series 900 Double Gate BOP, rated at 2000 psi Working Pressure. When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

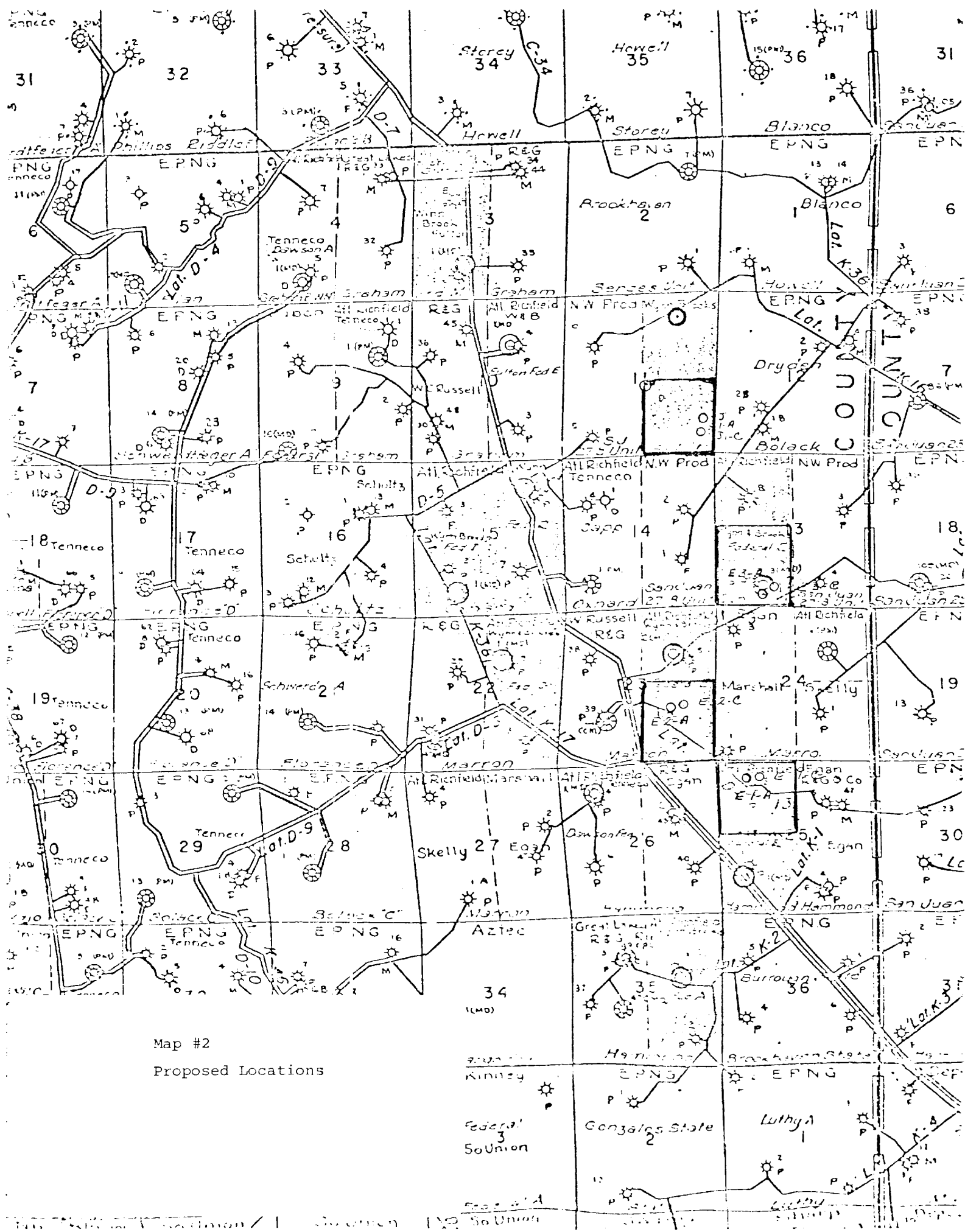
Typical Location Plat for Mesaverde and Chacra wells





R. C. WYNN  
 1308 CAMPBELL CENTRE  
 DALLAS, TEXAS 75206

EXISTING ROADS  
 O PROPOSED LOCATION



*Low Offices of*  
*R. G. Wynn*

*Suite 1808*  
*Campbell Center*  
*Dallas, Texas 75206*

Multi-Point Surface Use Plan

Federal E 2-C

1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
3. Location of Existing Wells-Please refer to Map No. 2.
4. Location of Tank Batteries, Production Facilities, and Production Gathering Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
5. Location and Type of Water Supply - Water for the proposed project will be obtained from a water hole located at Largo Federal Canyon Well.
6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.




7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1 will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
8. Ancillary Facilities - No camps or airstrips will be associated with this project.
9. Wellsite Layout - Please refer to the attached Plat No. 1.
10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed Mixture #2 will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted green (Federal Standard #595-34127).
11. Other Information - The terrain is bottom lands intermittent dry wash cover with sage brush and juniper trees. Cottontail rabbits are the only wildlife seen on site.

12. Operator's Representative - R. C. Wynn, 1808 Campbell Centre,  
Dallas, Texas 75206

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by R. C. Wynn and his contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

April 6, 1979

A handwritten signature in cursive script, appearing to read 'RCW', followed by a horizontal line.

R. C. WYNN

RCW/pw

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR AAA Operating Company, Inc.	8. FARM OR LEASE NAME Federal E
3. ADDRESS OF OPERATOR 1808 Campbell Centre, Dallas, Texas 75206	9. WELL NO. 5
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1650' PSL and 1500' FEL	10. FIELD AND POOL, OR WILDCAT Largo Chacra
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23-27N-8W
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5961' GR	12. COUNTY OR PARISH San Juan
	13. STATE New Mexico

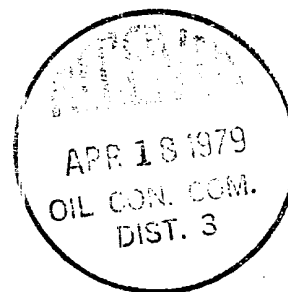
## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other) Operator & Name Change	<input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.\*

Change operator from R. C. Wynn  
to AAA Operating Company, Inc.

Change well name from Federal E 2-C  
to Federal E 5



18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE President DATE 4-13-79  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Nymcc