

U.S. M. OIL CONS. COMMISSION  
P.O. BOX 1980  
HOBBS, NEW MEXICO 88240  
SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

30 025-31961  
Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>LC--060945</b>
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
2. NAME OF OPERATOR <b>ARCO Oil and Gas Company</b>		7. UNIT AGREEMENT NAME <b>South Justis Unit</b>
3. ADDRESS OF OPERATOR <b>P.O. Box 1610, Midland, Texas 79702</b> Phone, 915-688-5672		8. FARM OR LEASE NAME <b>South Justis Unit 'D'</b>
4. LOCATION OF WELL (Report clearly and in accordance with any State requirements.) At surface <b>1370' FSL &amp; 1050' FEL (Unit Letter I)</b> At proposed Prod. zone <b>Approximately the same</b>		9. WELL NO. <b>210</b>
13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE <b>4.0 miles east of Jal, New Mexico</b>		10. FIELD AND POOL, OR WILDCAT <b>Justis Blinebry Tubb Drinkard</b>
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any) <b>50'</b>	16. NO. OF ACRES IN LEASE <b>5360</b>	11. SEC., T., M. OR BLK. AND SURVEY OR AREA <b>23-T25S-R37E</b>
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>720'</b>	19. PROPOSED DEPTH <b>6,200'</b>	12. COUNTY <b>Lea</b>
21. ELEVATIONS (Show whether GR or KB) <b>3081' GR</b>		13. STATE <b>NM</b>
22. APPROX. DATE WORK WILL START <b>Spud 5/93</b>		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT ft <sup>3</sup>
20"	13-3/8"	48.0#	40'	50 cu ft
12-1/4"	8-5/8"	24.0#	1000'	825 cu ft CIRCULATE
7-7/8"	4-1/2"	10.5#	6200'	3,200 cu ft (tie back)

Subject well is planned as a 6200' MD (6200' TVD) straight well. 3M psi BOPE will be used from 1000' to TD. Attachments are as follows:

1. Certified Location Plat
2. Drilling Plan with Attachments 1-3
3. Surface Use Plan with Attachments 3-9

Previously submitted by AOGC to BLM:

1. Archaeological Survey of The South Justis Waterflood Project
2. Preliminary Project Report South Justis Unit
3. Unit Agreement South Justis Unit

Unorthodox Location approved by Amendment to Order No. R-9747 dated 1-11-93  
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 Ken W. Gosnell TITLE Regulatory Coordinator DATE 2-22-93  
(This space for Federal or State Use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY (ORIG. SCD) RICHARD L. MANUS TITLE AREA MANAGER DATE 4/22/93

CONDITIONS OF APPROVAL, IF ANY:  
APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

\*See Instructions On Reverse Side

ATTACHED U.S.C. Section 1001, makes it a crime for any person knowingly 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.

# OIL CONSERVATION DIVISION

**P.O. Box 2088**

**Santa Fe, New Mexico 87504-2088**

**DISTRICA**

P.O. Box 1980, Hobbs, NM 88240

## DISTRICULT

P.O. Drawer DD, Artesia, NM 88210

DISTRIBUTION

1000 Rio Brazos Rd., Aztec, NM 87410

# WELL LOCATION AND ACREAGE DEDICATION PLAT

**All Distances must be from the outer boundaries of the section**

Operator		Lease		Well No	
ARCO OIL AND GAS COMPANY		South Justis Unit "D"		210	
Oil Letter	Section	Township	Range	County	
I	23	25 S	37 E	NMPM	Lea
Actual Spillage Location of Well:					
1370	feet from the	South	line and	1050	feet from the
					East
Ground Level Elev.	Producing Formation		Pool	Dedicated Acreage:	
3081'	Blinebry - Tubb - Drinkard		Justis	40	Acre

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interest 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 interest, has been approved by the Division.

23

ARCO 1

MERIDIAN 3 ● ●

D 210

Q 1050'

1370'

### OPERATOR CERTIFICATION

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

Kenn W. Gosnell

Signature \_\_\_\_\_

Ken W. Gosnell

Printed Name \_\_\_\_\_

Reg. Coord.

### Position

ARCO Oil and Gas Co.

## COMPLEY

12-7-92

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed \_\_\_\_\_

Nov. 16, 1992

Signature & Seal of  
Professional Surveyor

*Wm. F. Anderson*

Certificate No.

648

# DRILLING PLAN

Attach to BLM Form 3160-3  
ARCO Oil and Gas Company  
Well: South Justis Unit D-210  
Section 23-T25S-R37E  
1370' FSL & 1050' FEL  
Lea County, New Mexico

## 1. Surface Geological Formation

Ogallala Formation of late Tertiary age.

## 2. Estimated Tops of Geological Markers

<u>Formation</u>	<u>TVD</u>
Salt	1000'
Yates	2275'
Queen	2975'
Grayburg	3100'
San Andres	3550'
Glorietta	4625'
Blinbry	5000'
Tubb	5675'
Drinkard	5875'

## 3. Estimated Tops of Possible Water, Oil, Gas or Minerals:

Sands above 1000'	Water *
Yates	Gas**
Blinbry	Oil or Gas**
Tubb	Oil or Gas**
Drinkard	Oil or Gas**

\* Groundwater will be protected by 8-5/8" surface casing cemented to surface.

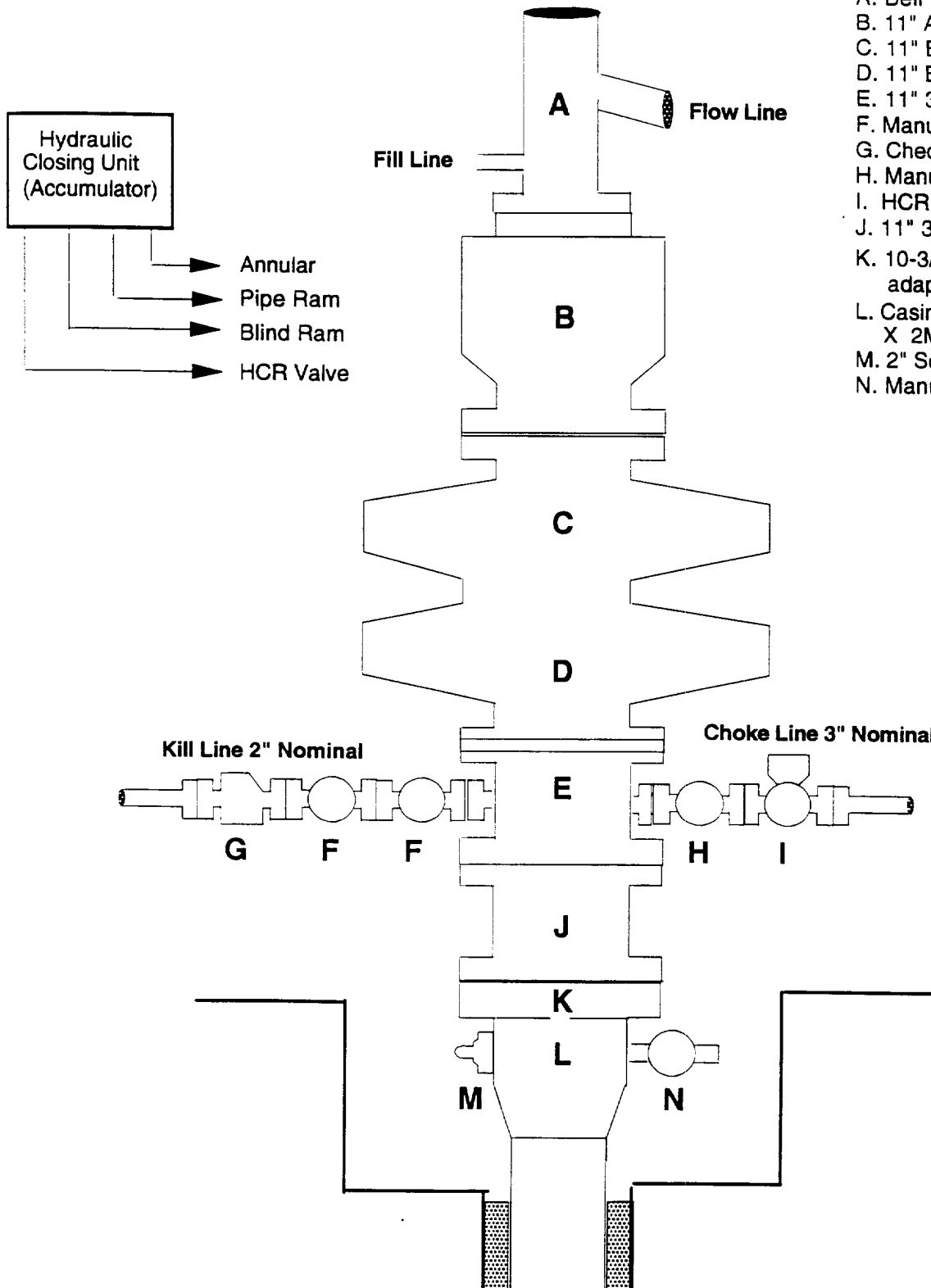
\*\* Productive horizons will be protected by 4-1/2" production casing cemented to surface.

## 4. Pressure Control Equipment

<u>Interval, TVD</u>	<u>Pressure Control Equipment</u>
0' - 1000'	No pressure control required
1000' - 6200'	11", 3M psi double ram preventer with 3M psi annular preventer.

Exhibits 1, 2, and 3 show the BOP stack arrangement, the choke manifold arrangements and the BOP specifications, respectively. The BOPE will be hydraulically tested per BLM requirements outlined by Onshore Oil and Gas Order No. 2. Pipe rams and blind rams will be functioned on each trip out of the hole. The annular preventer will be functioned once a week. All BOPE checks and tests will be witnessed by ARCO's representative and will be noted on the IADC daily drilling report. Accessories to BOPE will include an upper kelly cock, lower kelly cock, and floor safety valve all with pressure rating equivalent to the BOP stack.

**EXHIBIT 1  
BOP ARRANGEMENT  
ARCO OIL & GAS CO.  
SOUTH JUSTIS UNIT WELLS**



- A. Bell Nipple
- B. 11" Annular Preventer, 3M psi
- C. 11" BOP Pipe Rams, 3M psi
- D. 11" BOP Blind Rams, 3M psi
- E. 11" 3M psi Drilling Spool
- F. Manual Gate Valve 2-1/16"
- G. Check Valve 2-1/16"
- H. Manual Gate Valve 3-1/16"
- I. HCR Valve 3-1/16"
- J. 11" 3M psi Spacer Spool
- K. 10-3/4" Screw on X 11" 3M psi adaptor flange
- L. Casing Head 8-5/8" SOW X 2M psi Larkin-Type
- M. 2" Screw In Bull Plug
- N. Manual Ball Valve 2-1/16" 2M

EXHIBIT 2  
3M psi Choke Manifold  
ARCO Oil and Gas Company  
South Justis Unit Wells

