Form 318043 16 (formerly 9-631(C)

หย่าง DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

3D-D25-32D79 Form approved.

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

5. LEASE DESIGNATION AND SERIAL NO.

DEEPEN PLUG BACK DIL X GAS WELL OTHER SINGLE X MULTIPLE ZONE NAME OF OPERATOR ARCO Oil and Gas Company ADDRESS OF OPERATOR P.O. Box 1610, Midland, Texas 79702 Phone, 915-688-5672 LOCATION OF WELL (Report clearly and in accordance with any State requirements.) At surface 1050' FSL & 1050' FEL (Unit Letter P) At proposed Prod. zone Approximately the same 3. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 4.0 miles east of Jal, New Mexico 5. DISTANCE FROM PROPOSED LOCATION TO NEAREST 16. NO. OF ACRES IN LEASE	South 8. FARM South 9. WELL 1 180 10. FIELD Justi 11. SEC., AND		D"
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(Also to nearest drig. line, if any) 270' 5360 DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, 19, PROPOSED DEPTH		40	
DRILLING, COMPLETED,	20. RO	TARY OR CABLE	rools
OR APPLIED FOR, ON THIS LEASE, FT. 1080' 6,200'		Rotary	
ELEVATIONS (Show whether GR or KB)	1	22. APPROX. DA	TE WORK WILL S
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10.4/4#		50 cu f	
7.7/0"			t CIRCULAT
7-7/8" 4-1/2" 10.5# 6200'		3,200 cu	ft (tie back
 Certified Location Plat Drilling Plan with Attachments 1-3 Surface Use Plan with Attachments 3-9 Previously submitted by AOGC to BLM:		<u>7</u> 9	
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Submit to Appropriate District Office State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

<u>DISTRICT 1</u> P.O. Bux 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator			All Us	stances must be	from the outer bo	————	ne section			Wall No
Operator AFICO OIL	AND (GAS COM	PANY		Lease	Just is	lini+	"D"	1	Well No.
Unit Letter	Section		Township		Range	Justis	UIIL	Count	. <u>.</u>	180
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DRILLING PLAN

Attach to BLM Form 3160-3 ARCO Oil and Gas Company Well: South Justis Unit D-180 Section 14-T25S-R37E 1050' 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>	TVD
Salt	1000'
Yates	2275'
Queen	2975'
Grayburg	3100'
San Andres	3550'
Glorietta	4625'
Blinebry	5000'
Tubb	5675'
Drinkard	5875'

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

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

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

4. Pressure Control Equipment

Interval, TVD 0' - 1000'	Pressure Control Equipment 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 OII and Gas Order No. 2. Pipe rams and blind rams will be functioned on each trip out of the hole. The annular preveneter 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.

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

5. **H2S Contingency Plan**

Exhibit "10" shows the H2S Contingency Plan as a guideline for all company and contractor personnel in the field who may be exposured to H2S. It explains the emergency procedure, the equipment requirement (i.e. H2S detector, resque equipment, etc.) and the proper evacuation procedure.

6. **Proposed Casing and Cementing Program**

	Hole <u>Size</u>	Interval, MD	Casing Size	Weight & <u>Grade</u>
Conductor	20"	0 - 40'	13-3/8"	48.0# H-40
Surface	12-1/4"	0 - 1000'	8-5/8"	24.0# J-55
Production	7-7/8"	1000'-6200'	4-1/2"	10.5# J-55

<u>Cement Program:</u> (Actual volumes will be based on caliper log when available)

Conductor - Cement to surface with redimix

Surface - Cemented to surface with total of ± 825 cu ft as follows:

<u>Lead Slurry</u> - ±300 sks Pacesetter Lite 65/35/6 C/Poz/Gel + 2% CaCl2 + 1/4 pps Cello-Seal <u>Tail Slurry</u> - ±200 sks Class "C" + 2% CaCl2 + 1/4 pps Cello-Seal

Production - Cement to surface with total of +3200 cu ft as follows:

Option 1: If no loss circulation occurs or loss is controlled.

Lead Slurry - ±1175 sks Super C 44/20/20 C/Poz/CSE + 0.5% Thrifty Lite 1/4 pps Cello-Seal

Tail Slurry $-\pm 300$ sks Cl "C" + 12 pps CSE + 1 pps WL-1P + 0.3% CF-2 + 1/4 pps Cello-Seal + 3 pps Hi-Seal

Option 2: If loss circulation is severe then a DV Tool will be set at ± 3250 '

Stage 1 - Lead Slurry - ±400 sks Pacesetter Lite 65/35/6 C/Poz/Gel 3% salt

Tail Slurry $-\pm 300$ sks Cl "H" + 8 pps CSE + 0.6% CF-14 + 0.35% Thrifty Lite

Stage 2 - Lead Slurry - ±900 sks Pacesetter Lite 65/35/6 C/Poz/Gel + 3% salt Tail Slurry - ±100 sks Cl "C" Neat

7. Mud Program

		Weight	Funnel	Water
<u>Depth</u>	Mud Type	ppg	Viscosity	Loss
0 - 1000'	Spud Mud	8.4 - 8.9	29-32	NC
1000' - 4850'	SBW	<u>+</u> 10.0	29-32	NC
4850' - 6200'	SWG	+10.0	32-34	<15

8. Auxiliary Equipment

Upper Kelly Cock, Lower Kelly Cock, and Full Opening Stabbing Valve

9. Testing, Coring and Logging Program

- A. Drill Stem Tests None planned.
- B. Coring None planned.
- C. Logging No mud logging planned
- D. Electric Logs

Open Hole

Interval: TD - 4500' with GR-CAL to surface casing on one run GR-Spectralog/Compensated z-Densilog/Sidewall Epithermal Neutron/Caliper GR/Dual Laterolog/Micro Laterolog/Caliper

Cased Hole

Temperature Survey (if cement not circulated on Production Csg)

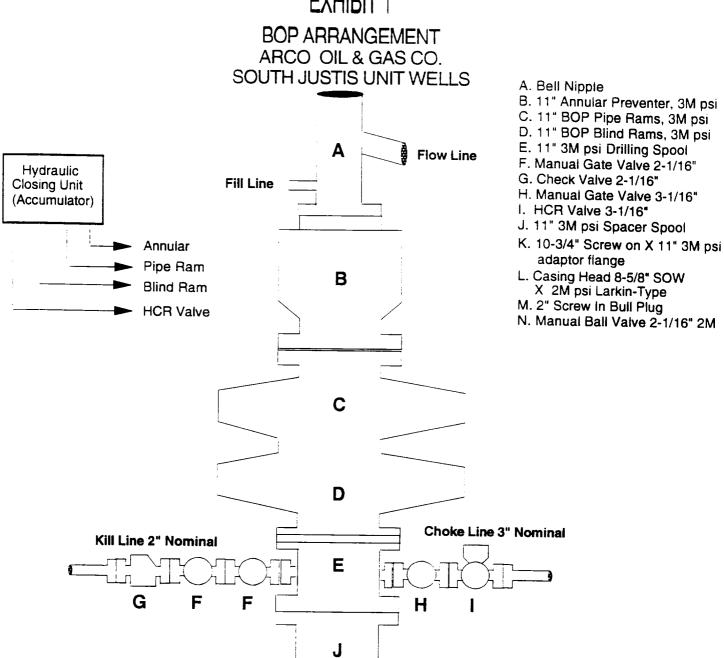
10. Anticipated Abnormal Temperature, Pressure, or Hazards

Possible lost circulation at ± 975 ' in anhydrite section. Seepage and lost circulation is expected starting in the Queen Formation and continuing through the Glorietta (3000'-5000').

11. Anticipated Starting Date and Duration of Operations

Pending favorable weather and permit approval, construction work on this location is planned to begin in August, 1993. Construction work will require 4 days, move-in and rig up rotary tools, 1 day, drill and complete, 21 days. It is planned to spud the well in October, 1993.

EXHIBIT 1



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