Form 3160-3 O. BOX 1980

OBBS. NEW MEXICO 882

UNITED STATES **DEPARTMENT OF THE INTERIOR**BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE

(Other instructions on reverse side)

30-025-32078

Budget Bureau No. 1004-0136

	EX	pires August	31,	1985	
L	EASE	DESIGNATION	AND	SERIAL	NO

					NM	-0766	
APPLICATION FO	OR PERMIT TO DRIL	L, DE	EPEN, OR PL	UG BACK	6. IF IN	DIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK b. TYPE OF WELL	DRILL X DEER	PEN	PLUG BA	CK 🗌		AGREEMENT NA th Justis Unit	ME
OIL X GAS WELL	OTHER			MULTIPLE		OR LEASE NAM	<u> </u>
2. NAME OF OPERATOR	OTHER		ZONE	ZONE	1	th Justis Unit	
ARCO Oil and Ga	as Company				9. WELL		
					26		
3. ADDRESS OF OPERATOR	Midland, Texas 79702		Phone, 915-688-	E670		LD AND POOL, OF	NAME OF T
	Report clearly and in accordan						
At surface						tis Blinebry T	ubb Drinkard
At surface 100' FSL & 1500' FWL (Unit Letter N) At proposed Prod. zone Approximately the same					11. SEC., T., M., OR BLK. AND SURVEY OR AREA 25-T25S-R37E		
	ND DIRECTION FROM NEARES	ST TOWN	OR POST OFFICE		12. COL	JNTY	13. STATE
	of Jal, New Mexico				Le		NM
PROPERTY OR LEASE		T	16. NO. OF ACRES	S IN LEASE		O. OF ACRES AS	SIGNED
(Also to nearest drig.	,		5360				-0
DRILLING, COMPLETED	POSED LOCATION TO NEARES	T WELL,	19. PROPOSED DE	РТН	20. F	ROTARY OR CABLE	TOOLS
	THIS LEASE, FT. 1240'		6,200'		Rotary		
21. ELEVATIONS (Show wi	nether GR or KB)					22. APPROX. D	ATE WORK WILL STAR
3052' G	R_					Spud 12/	93
23.	PROPO	SED C	ASING AND CEME	NTING PROGE	RAM	<u> </u>	
SIZE OF HOLE	SIZE OF CASING	WE	IGHT PER FOOT	SETTING D	EPTH	QUANTITY	OF CEMENT ft 3
20"	13-3/8"		48.0#	40'		50 cu ft	
12-1/4"	8-5/8"		24.0#	1000'			ft CIRCULATE
7-7/8"	4-1/2"		10.5#	6200'			Itt(tieback)
Subject well	is planned as a 620	o' MD	(6200' TVD) s	straight well	3M n		·

SIVI PSI BOPE WIII 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

IN ABOVE SPACE DESCRIBE PROPOSED PROGAM: 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.

24. n/ 0 1 00 10		
SIGNED Ken au Somell	TITLE Regulatory Coordinator	DATE 5-24-93
(This space for Federal or State Use)		DATE
PERMIT NO	APPROVAL DATE	
APPROVED BY St Kon Wunton	TITLE SAIS SANAGER	DATE 6-30-93
CONDITIONS OF APPROVAL, IF ANY: PROVAL 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 D/ States any false, ficticious or fraudulent statements or representations as to any matter within its jurisdiction. Submit to Appropriate District Office State Lease - 4 copies
Fee Lease - 3 copies

DISTRICT

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

P.O. Bux 1980, Hobbs, NM 88240

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator			Le	180					Well No.
AFICO	OIL AND GAS	COMPANY			South	hertin	l best as	"F"	260
Init Letter	Section	Township	Ra	inge	~~	vist12		County	
N	25	25 S		37	E		_NMPM	j I	Lea
Actual Footage L	ocation of Well:								
100	feet from the	South	line and	.1500			feet from t	he	lina
fround level Ele		ing Formation	Pox	ol			170111	ne Mec	line Dedicated Acreage:
30521	Bliner	ory-Tubb-Drin	kard	Just	is				40
1. Out	line the acreage dedicat	ed to the subject well by or	olored pencil o	or hachure n	narks on the	plat below.			40 Acres
		edicated to the well, outline						c interset and	d envelop
									• •
o. 11 m uniti	ization, force-pooling, e	ifferent ownership is dedica	ated to the wel	ll, have the	interest of al	l owners be	en consoli	dated by con	umunitization,
	Yes		"yes" type of	consolidati	OB				
If answ	ver is "no" list the owne	ers and tract descriptions w	hich have actu	ally been co	onsolidated.	(Use reven	se side of		
mis ior	mi ii neccessary.								
NO MILE OF Until	wanie will be assigned	to the well until all interest inninating such interest, has	as have been c	consolidated	(by commu	nitization, u	mitization,	forced-pooli	ng, or otherwise)
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DRILLING PLAN

Attach to BLM Form 3160-3 ARCO Oil and Gas Company

Well: South Justis Unit F-260

Section 25-T25S-R37E 100' FSL & 1500' FWL 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'

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

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

<u>Interval, TVD</u> 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 <u>Size</u>	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

Cement Program: (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 - ± 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

<u>Depth</u> 0 - 1000' 1000' - 4850' 4850' - 6200'	Mud Type Spud Mud SBW SWG	Weight _ppg 8.4 - 8.9 ±10.0 ±10.0	Funnel Viscosity 29-32 29-32 32-34	Water Loss NC NC <15
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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 October, 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 December, 1993.

