30-025-32354

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

# M.M. CH. COSS. Cr. D. ISS.

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

UNITED STATES (Che instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

LC-032650-B

					1	200U-D	
<b>APPLICATION FO</b>	R PERMIT TO DRI	L, DEEPEN.	OR PLUC	BACK	6. IF INDIA	N, ALLOTTEE OR	TRIBE NAME
1a. TYPE OF WORK			PLUG BACK			-	
b. TYPE OF WELL		ren .	LOG DAGI	•	1	REEMENT NAME	
OIL TYT GAS	_	SINCLE		TIDLE -		Justis Unit	
WELL \ WELL OTHER ZONE \ ZONE					i	R LEASE NAME	<i>i</i>
2. NAME OF OPERATOR					i	Justis Unit 'H'	100150
ARCO Oil and Gas	s Company	くむ	00999	<b>&gt;</b>	9. WELL NO	).	
3. ADDRESS OF OPERATOR				1	210		
P.O. Box 1610, M	idland, Texas 79702	Phone,	915-688-56	72	10. FIELD	AND POOL, OR WI	LDCAT <3422
4. LOCATION OF WELL (Re					Justis	Blinebry Tubb	Drinkard
At surface	1370' FSL & 3	30' FEL (Unit l	Letter I)			., M., OR BLK.	
At proposed Prod.	zone Approximately	the same				25S-R37E	
13. DISTANCE IN MILES AN	D DIRECTION FROM NEARE	ST TOWN OR POST	TOFFICE		12. COUNT	Υ 1	3. STATE
4.0 miles east o	f Jal, New Mexico				Lea		NM
15. DISTANCE FROM PROPO		T 16. NO	OF ACRES IN	LEASE	17. NO.	OF ACRES ASSIGN	NED
PROPERTY OR LEASE L (Also to nearest drig. li			5360		TO THIS WELL 40		
18. DISTANCE FROM PROPO	_ ·	T WELL, 19. PR	OPOSED DEPT	1	20. ROT	ARY OR CABLE TO	OLS
DRILLING, COMPLETED, OR APPLIED FOR, ON THE	HS LEASE, FT. 600'		6,200'			Rotary	
21. ELEVATIONS (Show whe		i			123	•	WORK WILL START
3054' GR	•	Capitan C	Phelipponol	later Soci.		Spud 1/94	WORK WILL STAM
23.		OSED CASING A	ND CEMENT	INC PROCE	A A A		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER				QUANTITY OF	DEMENT 2
20"	13-3/8"		1 -001	SETTING DE	=PTH		• •
12-1/4"	8-5/8"	48.0# 24.0#		40' 1000'		50 cu ft 825 cu ft	CINCULAT
7-7/8"	4-1/2"	10.5#		6200'		3,200 cu ft	
1000' to TD. 1. Certified I 2. Drilling Pl 3. Surface U Previously si 1. Archaeok 2. Prelimina	is planned as a 620 Attachments are a Location Plat an with Attachment lse Plan with Attachment with Attachment South Justice Proposed Program in the	s follows:  ts 1-3 hments 3-9 to BLM: ne South Justis South Justis s Unit	tis Waterfl Unit	ood Projed	ct	fuctive zone and n	Open Company of the C
24.	gram, if any.						· · ·
(This space for Federal at St	ata lien)	_ TITLE <u>VK//</u>	( /// (**	(ENNE )	EAUE	DATE _	175/93
(This space for Federal er St		BBBBW - :					
PERMIT NO	ייים אוסות שליים אוסיים שליים שלים של	PPROVAL DATE	£. %. 1		7°. °° (°°)		
APPROVED BY		TITLE _	# 7 1 1		10.45 	DATE	NOV 1 0 1993
CONDITIONS OF APPROVAL, II	- · · · · · · · · · · · · · · · · · · ·	ο×		en.	าลขาก ริยโป ศาสาชิ <b>สรุย</b> เหลื (20 <b>วน</b> )	iroments Shi	ſ
	<b>∱</b> >: *	See Instruction	ns On Reve	rse Side	i e zast <b>erni</b> Had	SECTION SEC	

Title 18 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, 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

## State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised 1-1-89

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

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

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

DISTR'CT 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

1 - 7				LASE				Well No.
ARCO	OIL AND (	GAS COMPANY		Sc	outh .	ustis Un	i + "H"	740
Unit Letter	Section	Townsnip		Range			County	210
I	24	25 9	5	Ü	37 E		•	Lea
Actual Footage I	Location of Well:	<del></del>	<del>-</del>				<u>ирм</u>	
1370		2						
Ground level Ele	feet from the	South ucing Formation	line and	330 P∞i		feet 1	from the F:	
3054'		bry-Tubb-Drin	card	Jus	+ic			Dedicated Acreage:
							<del> </del>	40 Acres
1. Oui	thine the acreage dedu	cated to the subject well	by colored pen	cii or hachure	marks on t	ne piat below.		
2 If n	more than one lease is	dedicated to the well, or	ittine each and	identify the c				
		desired to the well of	and Cach and	iceday are c	Ancianh m	ereor (both as to w	orking intere	st and royalty).
3. If n	nore than one lease of	f different ownership is d	edicated to the	well, have th	e interest of	ali owners been c	onsolidated h	V COMPTEINITIZATION
ம்	uzation, force-pooling	રુ, ઘદ.?						, which is a second of the sec
	Yes	No If answ	ver is "yes" typ	e of consolida	ation			
If ans	wer is "no" list the ov	voers and tract description	ns which have	actually been	consolidate	1. (Use reverse m	de of	
	orm if neccessary.		<del></del>					
NO all	il a non-standard unit	ned to the well until all in	ilerests have be	en consolidat	ed (by comm	nunitization, unitiz	2000. forced-	pooling, or otherwise)
	a nou-scandard tillit	eliminating such interes	L nas been app	roved by the	DIAIRIOUT			
					<del> </del>		OPE	KATOR CERTIFICATION
	ļ				1	24		
1		1			1		1	ereby certify that the information herein in true and complete to the
	1				i			i hereon in irue and complete to the incomplete to the incomplete and belief.
	i	1			i		, J.	sometimes and being.
	1	1			1		Signature	
	ļ.				ļ		2	a. 1 el., 10
+	l				1		Le Le	n W Somel
1	[				1		Printed N	
					·÷	·		W. Gosnell
	į				i	:	Position	
:	i				l I		Agen	t
:	1				ļ		Company	
į					ļ	:	ARCO	Oil & Gas Company
:	!	ł					Date	
	-	1					9-22	<b>-</b> 93
	<b>!</b>				1	!	G1.170	LEVOR CERTIFICATION
<del></del>	<del></del>			<del></del>	Water	TIGHT 5	SUR	VEYOR CERTIFICATION
	i	j			Mater	meri 🍎		
1					1	Getty		certify that the well location shows that was plotted from field notes o
	i				! н			urvers made by me or under m
	ļ					<sup>21</sup> Coates 4)		n. and that the same is true and
								o the best of my knowledge and
	1				Ì		belief.	
	i				i	H 210		
	i 1	1			1		Date Sur	veyed
		+			· <del> </del>		.	Sept. 14, 1993
								& Seal of
1	1				1	i	Professio	nai Surveyor
1	i				i	ļ		
	1				•	•0		10
	1				1	1370	1 21	1 25/1
	!				!		1 1/2	MI Menden
							Cerufical	
					1	ļ	Cettinical	648

## DRILLING PLAN

Attach to BLM Form 3160-3 ARCO Oil and Gas Company Well: South Justis Unit H-210 1370' FSL & 330' FEL Section 24-T25S-R37E 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	$\frac{1000}{1}$
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**

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

#### 4. Pressure Control Equipment

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 Oil 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.

<sup>\*\*</sup> 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"	0 - 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  $\pm 825$  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  $\pm 3200$  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  $\pm 3250$ '

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	<u>+</u> 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  $\pm 975$ ' 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 January, 1994.

