		19. ha		. G. CCP		Capity 6.51-		
Forel \$-331 C (May 1963)				SUPMIT (Other	IN TELL instruction	ATE* Form approved. Budget Bureau No. 42-R1425.		
		TED STATES		rev	verse zide)	- Ste- 015-2/515		
	DEPARTMEN	t of the 1	NTER	IOR		5. LEASE DESIGNATION AND DEBIAL NO.		
	GEOLO	GICAL SURV	ΈY			NM 0553785-A		
APPLICATION	I FOR PERMIT	TO DRILL,	DEEPE	N, OR PLU	JG BAC	3. IF INDIAN, ALLOTTEE OF THES NAME		
		DEEPEN		PLUG	i back [	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL [7] GA	S X OTHER		SIN ZON		MULTIPLE	8. FARM OR LEASE NAME		
WELL WI	Government AD							
Cities Servic	9. WELL NO.							
3. ADDRESS OF OPERATOR	l							
Box 1919 - Mi	10. FIELD AND POOL, OR WILDCAT							
4. LOCATION OF WELL (Re	eport location clearly and	d in accordance wi	th any St	ate requirements	.*)	Undes. Leinenta Morro:		
At surface						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon	O'FWL of Sec.	aleicioenc (	الماند والدا	uy uu , ac	WINCALC			
Same as above						Sec. 21-T21S-R27E		
14. DISTANCE IN MILES A		AREST TOWN OR POS	ST OFFICE	8		12. COUNTY OR PARISH 13. STATE		
3 miles NE of	Carlsbad, New	Mexico				Eddy New Mexi		
15. DISTANCE FROM FROPO	SED*		1	OF ACRES IN LE	ASE   17.	NO. OF ACRES ASSIGNED TO TRIS WELL		
LOCATION TO NEAREST PROPERTY OR DEASE L (Also to hearest drig	INE, FT.	660'N	49	4932 acres		320		
18. DISTANCE FROM PROP	OSED LOCATION*		19. PRO	POSED DEPTH	20.	ROTARY OR CABLE TOOLS		
TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED, IS lease, ft.	<b>*** *</b> **	1 11	,7501		Rotary		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)			· · · ·		22. APPROX. DATE WORK WILL START*		
3236' GR						April 15, 1975		
23.		PROPOSED CASI	ING AND	CEMENTING F	ROGRAM			
		WEIGHT PEL I	VOOT	SETTING DEP	тн	QUANTIFY OF CEMENT		
17-1/2"	$\frac{\text{size of casing}}{13-3/8^{11}}$	L8#		1001		h00 sacks (circulated)		
	9=5/8"	32 & 35#		3000*		1000 sacks (circulated)		
<u> </u>	5-1/2"	17 & 20 #		11750		1000 sacks		
It is propose	ed to drill to	a T.D. of I	11,750	and test	the Mo	rrow Formation.		
The blowout p	prevention prog	gram is as :						
	set of blind ra		R	SELV	ED			
	set of drill pi	pe rams.			2 . MIS (2 <sup>10</sup>	FOENED		
	lydril.			APR 15 1	310	RECEIVED		
4. One i	rotating head.					- 17 1075		
				0.0.0	-, 2 •	MAR 1 ( 15/ )		
				ARTESIA, DI	FICE	A THE ACTOR SURVEY		
						U.S. GLANNEN MEXICO		
11: JDAVE ODJAE NEGATE	E PROPOSED PROCESS - TH	i proposal is to de	epen or n	lug back, give da	ita on presen	t productive zone and proposed new productive		
zone. If proposal is to	drill or deepen direction	nally, give pertine	ent data o	n subsurface loca	tions and m	easured and true vertical depths. Give blowout		
preventer program, if an 24.	ıy.							
	NAL SIGNED		Da	gion Opera	ation Me	mager March 6, 1975		
BIGNED	<u>Y M:108</u>	T		ETON OPELS	AULOII MC	DATE HELOS US 1919		
(This space for Fede	eral or State office use)			UTDOL	( ,	ist to inprivat		
المعلن العالي المحالية مستنقدة من المحالية العالي المحلي المحالية من المحالية		MACHED DEEP	WELL CO	1073	Sill	Hummityation aquanti		
BRBHIT NO.	<u> </u>	- DATED	+ +	APPROVAL DATE _		contraction of the		
	AEQUIREMEN				fac	en to produceller		
APPROVED BY	VAL. IF ANY :		ritle			UAZE		
Back		OERAT - MO			ASIN	· · ·		
X The second second	1997 - 1998 - 1997 -	NEWTHS.	DECL	NED WATER P	12349	NO DEL MAGICON AND PROPERT TIME TO		
PERMIT TO ALL ALL A	n1	5	م مر <b>لد م</b> ر سا	Co Pouros é	idar 5	WE SE THE PARTY THE THE CASH		
	+ 197	See inst	TUCTIONS	On Reverse S				
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				A A A A A A A A A A A A A A A A A A A				

## NEX - INCO DIE CUBSERVATION COMPLISED WELL LOCATION AND ACREAGE DEDICATION PLAT

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* 		All distances must	Le fron the outer bounde	ter of the Section		[ 'Ne:! '
Citles Serv	ice Of! Com	pony	Governme	- more than the second s	1	
C	Sectors 21	21 South	27 East	Court 2	ddy	
660	feet tracties	North	and 1980	ter ton the	West	1.50
3236.4	Her Barrie Morrow	Ferra and	Undesignat	ed LaHuerta	Morrow	
i Outline the	e acreage ded	icated to the aubject	I well in colored pe	ncii s ha nuce	marks on the	· plat below.
interest an	d royalty).					ereaf (both as to working
3. If more tha dated by co	ommunitization	i, unitization, force-p	ooling. etc?			all owners been consult-
X Yes	No I	f answer is "yes" ty	pe of consolidation .	Unitizatio	on (See re	verse side)
		he owners and tract (	lescriptions which h	ave esteres b	een consolida	ted. (I se reverse side of
N 11	f necessary )_ de will be ass ling, or otherwi	igned to the well unti se) or until a non-sta	l all interests have ndard unit, eliminat:	brea cone lida ng such saerus	ated (by com ets, has been	nunitization, unitization, approved by the Commis-
sion,						۵۰ هـ - بهجم بردان و همها و با بر محمد معینه اس او محمد میکند. ۱۹۰ هـ - ا
T C.S.C.	77	Amo	co Prod. Co.			CERTIFICATION
1 .p.y.		-O KMC			I hereby a	ertify that the information con-
	A80		ł		1 1	ein is true and complete to the knowledge and belief.
$\Pi$			1		best of m	/ knowledge and bellen.
					i tane ()	ACTINAL SIGNED Y E. Y. WILDER
			·   		1 St 1 - 5	Operation Manager
			1		Cities	Service Oil Company
Barron		NM	0553785-A		March (	5, 1975
Unit block	consists (	of 4932 acres. les in this well	Working interes are as follows	ts of :	here	RECEIVED
	1	1	A THE TA		the shown on	this plat was platted from field actual R 1077 1975by ine st
Cities Ser Amoco Prod		36.69185% 22.18587%		<i>i</i>	under my	SUPERVISION, GIND HOUSEV
Amarillo C	il Company	16.63940%			is true	ARTESTARTAL MEXICO
Flag-Redfe	ern Oil Co. Co. of Cal	16.63940% - 4.43026%			-	ANILONY
Champlin F	Petrol Co.	1.70061%	10/	<u>\$}</u> ]]		د. به موجود میرون میرون از مربع میروند و میروند و میروند از میرون از میرون از میرون از میرون میرون از میرون میرون
Patoil Cor	moration	1.70661%	A CIL	//	Date Surve	bruary 28, 1975
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		N8. 638.85				
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CITIES SERVICE OIL COMPANY



Box 1919 Midland, Texas 79701 Telephone: 915 684-7131

March 6, 1975

United States Department of the Interior Geological Survey Artesia, New Mexico 88210

Gentlemen:

Re: Application for Permit to Drill Government "AD" No. 1, Eddy County, New Mexico

Cities Service Oil Company respectfully requests permission to drill Well No. 1 on the Government "AD" lease located 660' FNL, 1980' FWL, Section 21-21S-27E, Eddy County, New Mexico.

- In support of this application, the following data is submitted:
- 1. Form 9-331C, Application for Permit to Drill.
- 2. Form C-102, Well Location and Acreage Dedication Plat.
- General plat of the area showing location in relation to the City of Carlsbad.
- Plat of Magruder Unit (Cities Service Oil Company Operator -36.69185%) showing proposed location in relation to the Unit boundaries.
- Plat of location layout showing land usage necessary for the drilling pad, mud tanks and reserve pit.
- 6. Blow out preventer diagram showing arrangement of components of BOP stack.
- Schematic diagram showing hookup of BOP's, choke manifold and mud/gas separator.
- 8. Diagram of casing program, hole sizes and estimated formation tops. RECEIVED
- 9. Summary of mud program.

MAR 17 1975

10. Designation of Operator.

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U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO Application for Permit to Drill Government "AD" No. 1

March 6, 1975

Page No. 2

The Government "AD" No. 1 location is 1/2 mile north of Cities Service Oil Company's recently completed Elizondo Federal A No. 2-Y, a single completed Morrow producer. Projected TD is 11,750'. The primary objective is the Morrow Sand. Secondary objectives are Wolfcamp, Canyon and Strawn. Access to the location will be an extension 1/2 mile north of the existing road system to Elizondo Federal A No. 2-Y.

The nearest inhabited dwelling is a trailer house one mile SW of the location. This dwelling will present no problem to our operations.

The reserve pit will be lined when it is built. Upon completion of the well, the pits will be backfilled and levelled and debris removed.

If the well is completed as a producer, production equipment will be set no closer than 150' from the well with tanks set to collect both oil and water which will be trucked to sale or disposal. The gas purchaser will install necessary gas measuring equipment and pipeline.

If it is a dry hole, the well will be plugged in accordance with USGS requirements.

The proposed casing program consists of:

13-3/8" set at 400' with cement circulated to surface.

9-5/8" set at 3000' with cement circulated to surface.

5-1/2" set at 11,750' with sufficient cement to fill the annulus from TD to 8500' (above the Wolfcamp).

In addition to the blow out preventer program shown on the attached plat, the following equipment will be installed and in operation before drilling out from under the 9-5/8" casing:

1. Swaco adjustable choke in choke manifold.

2. Pit volume totalizer.

- 3. Flow line sensor.
- 4. Degasser.

...\*

Also prior to drilling out from under the 9-5/8", the BOP's and related control equipment will be pressure tested to rated working pressure by an independent testing company.

> MAR 1.7.1975 U.S. GEODODAL SURVEY ARIESTA, ALE MEXICO

Application for Permit to Drill Government "AD" No. 1

March 6, 1975

Page No. 3

The well will be drilled in accordance with USGS requirements stated in Order No. 30 CFR 221.24, 221.36 and 221.37.

Please contact me at the above address if further information is needed to evaluate this project.

Yours very truly,

Inda

E. Y. Wilder Region Operations Manager Southwest Region E & P Division

EYW/1s

Attachments

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MAR 17 1975 U.S. GEOLOGICAL SUPVEY ARTISIA, NEW MEXICO

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## CLOSING METHOD

Sufficient accumulator volume shall be available to operate both the bag type preventer and pipe ram preventer with a snap-action through the following steps: close-open-close.

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GOVERNMENT "AD" NO. 1 GGO'FHL, 1980'FWL, SECTION 21-215.-27E. EDDY COUNTY, NEW MEXICO



## MUD PROGRAM

Government "AD" No. 1

660' FNL, 1980' FWL Sec. 21-215-27E Eddy County, New Mexico

- 0' 400' Spud with fresh water and native mud. Mud weight 8.5 ppg. Viscosity 30-34.
- 400' 3000' Drill with fresh water and native mud. If circulation is lost and cannot be regained, dry drill to 3000' with fresh water. Mud weight 8.5 ppg. Viscosity 28-30.
- 3000' 7000' Drill with fresh water brine system. Mud weight 9.4-9.5 ppg. Maintain pH of 10.
- 7000' 10000' Start increasing mud weight gradually at 7000' to 9.8 ppg at 8500'. Maintain weight and viscosity as dictated by hole conditions.
- 10000' 11750' TD Mud up at 10700'. Reduce water loss to 6-10 cc prior to drilling through the Morrow. Mud weight approximately 9.8 ppg. Viscosity 30-34 sec.

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