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DISTRIBUTION	NEW MEXICO OIL CONS	Form C -101			
SANTA FE /				Revised 1-1-6	5
FILE		RECEIV	ED	5A. Indicate	Type of Lease
U.S.G.S.				STATE 2	FEE
LAND OFFICE		JAN 2 2 197	27		Gas Lease No.
OPERATOR 1		0	LG 794		
			F	<u>IIIIII</u>	
APPLICATION FOR PE	RMIT TO DRILL, DEEPEN	, OR PLUG BACK			
1a. Type of Work			3E	7. Unit Agree	ement Name
DRILL X	DEEPEN	PLU	G BACK	9. Furm or Le	
· · · · · · · · · · · · · · · · · · ·		SINGLE -			
OIL GAS WELL OIH 2. Name of Operator	IÉR	SINGLE X	ZONE	9. Well No.	
Cities Service Oil Company	r			9. wen 140.	
3. Address of Operator		······		-	Dook of Wildert
Box 1919 - Midland, Texas	79701			Indesi	gnated Morrow
		C			
UNIT LETTER	LOCATED 1980	FEET FROM THE _ SOU	LINE LINE		
AND 660 FEET FROM THE East	t LINE OF SEC. 16	1WF. 205 RGE.	28E NMPM		
		<u> </u>	<u>IIIIIII</u>	12. County	, , <u> </u>
				Eddy	
	*****	<i>#####################################</i>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mm	tittittittitti
<i>`````````````````````````````````````</i>	//////////////////////////////////////	19. Projosed Depth	19A. Formation		20. Rotory or C.T.
		11450' Morro		w	Rotary
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug, Pond			22. Approx. Date Work will start	
3253' GR	Required/Approved	Not released		March 1, 1976	
23.	PROPOSED CASING A	ND CEMENT PROGRAM			

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	Li8#	4001	750 sacks	Circulated
12-1/4"	9-5/8"	36#	30001	1500 sacks	Circulated
8-3/4"	5-1/2"	17 & 20#	11450'	900 sacks	TC @ 80001

It is proposed to drill this well to a T.D. of 11450' and test the Morrow formation.

The blowout prevention program is as follows:

- 1. One set of blind rams.
- One set of drill pipe rams.
 One Hydril.
- 4. One rotating head.

APPROVAL VALID FOR 90 DAYS UNLESS DRILLING COMMENCED,

EXPIRES 4-23-76

hereby certify that the information above is true and co	implete to the t	pest of my knowledge and belief.	
Signed	ReRe	gion Operation Manager	January 21, 1976
(This space for State Use)	TITLE	SUPERVISOR, DISTRICT	JAN 231976
CONDITIONS OF APPROVAL, IF ANY:			Notify N.M.O.C.C. in sufficient time to witness contenting the 95%

NEW MEXICO OIL CONSERVATION COMMISSION WEL . OCATION AND ACREAGE DEDICATION _AT

Rirm C-102 Supersedes C-128 Effective 14-65

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CITIES SERVICE OIL COMPANY

Box 1919 Midland, Texas 79701 Telephone (915) 684-7131

> January 21, 1976 **RECEIVED**

> > JAN 22 1976

New Mexico Oil Conservation Commission P. O. Drawer DD Artesia, New Mexico 88210

I.

O. C. C.

Gentlemen:

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

Cities Service Oil Company respectfully requests permission to drill the No. 1 State "CT" located 1980' FSL, 660' FEL, Sec. 16-20S-28E, Eddy County, New Mexico.

In support of this application, the following data is submitted:

- 1. Form C-101, Application for Permit to Drill.
- 2. Form C-102, Well Location and Acreage Dedication Plat.
- 3. County road map showing location of proposed drilling site in relation to surrounding area.
- 4. Plat showing approximate dimensions of location layout including position of the rig, mud pits, reserve pits, etc.
- 5. Blowout preventer diagram showing arrangement and components of BOP stack.
- Schematic diagram showing hook-up of BOP's, choke manifold and mud/ gas separator.
- 7. Schematic diagram of casing program and estimated formation tops.
- 8. Summary of mud program.

The State "CT" No. 1 is located 1/2 mile west and 1/4 mile north of Cities Service Oil Company's recently drilled Government "AC" No. 1, an Atoka completion.

Application for Permit to Drill State "CT" No. 1

Page No. 2

January 21, 1976

The nearest inhabited dwelling is the home of Mr. A. H. Rains approximately 2-1/2 miles east of our proposed location.

The well is projected to test the Morrow Sands with an anticipated TD of 11,450'. Other shallower zones will be tested as the well is drilled.

If completed as a producer, producing 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 gas gathering line.

The reserve pit will be lined when it is built. If the well is a producer, the pits will be backfilled, levelled, debris removed and surface equipment fenced. If it is a dry hole, the well will be plugged as per New Mexico Oil Conservation Commission requirements, the pits backfilled and levelled and all debris removed.

The proposed casing program consists of:

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

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

5-1/2" casing set at TD 11,450' and cemented with sufficient volume to fill the annular space from TD to 8000'.

In addition to the blowout preventer equipment shown on the attached plat, the following equipment will be in use before drilling out from under the 9-5/8" intermediate casing:

1. Swaco adjustable choke.

2. Pit volume totalizer.

3. Flow line sensor.

4. Degasser.

Also, prior to drilling out under the 9-5/8", the BOP's and related control equipment will be pressure tested to rated working pressure by Yellow Jacket Tools and Services, Inc.

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

Yours very truly,

E. Y. Wilder Region Operations Manager

EYW/1s Attachment





BLOWOUT PREVENTER DIAGRAM





____ STATE "CT" NO. 1_____ 1980 FSL GOOFEL SECTION 16-203-28E EDDY COUNTY, NEW MEXICO -HOLE SIZE \$ ESTIMATED FORMATION TOPS _ CASING PROGRAM -171/2" hole 33/8 @ 400' 121/4" hole 75/8 @ 3000 BONE SPRING 5420' 83/4" hole DEAN 7950 WOLFCAMP 8625 _____ STRAWN 9980' ____ ATOKA 10480' MORROW 10730' CHESTER 11300' 5 1/2 "@ 11450" TOTAL DEPTH 11450'

STATE "CT" NO. 1

1980' FSL 660' FEL Section 16-205-28E

Eddy Co., New Mexico

Mud Program

0-400'

3000-8500'

Drill with fresh water mud. Mud wt. approximately 8.5#/gal., viscosity 30-34. Set 13-3/8" casing at 400'.

400-3000' Drill with fresh water. If returns are lost and cannot be regained, dry drill to casing depth 3000'. Mud weight 8.5#/gal., viscosity 28-31. Set 9-5/8" casing at 3000'.

> Drill with fresh water. Add caustic for pH control. Mud weight 8.5#/gal., viscosity 28-31.

8500-10500' Displace fresh water with 10#/gal. brine water at 8500'. Add caustic for pH control. Mud weight 10#/gal., viscosity 28-31.

10500-11450' Mud up with Morrow protection fluid at 10500'. Maintain mud weight, viscosity and fluid loss as hole conditions dictate. Mud weight approximately 10#/ gal., viscosity 34-36, water loss 10 or less. Set 5-1/2" casing at TD 11450'.