#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

# <u>30-031-20602</u>

**UNITED STATES** DEDARTMENT OF THE INTERIOR

	5. LEASE DESIGNATION AND SERIAL NO.							
	NM 6999							
APPLICATION	N FOR PERMIT T	O DRILL, I	DEEPEN	, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
	LL 🏻	DEEPEN [		PLUG BAC	:к 🗀	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL S. GA	ELL OTHER		SINGL ZONE	E MULTIPE	E	S. FARM OR LEASE NAME		
2. NAME OF OPERATOR						FEDERAL "E"		
Cities Serv	ice Company					9. WELL NO.		
3. ADDRESS OF OPERATOR						1		
Box 1919, M	10. FIELD AND POOL, OR WILDCAT							
4. LOCATION OF WELL (Re	eport location clearly and	in accordance wit	h any State	e requirements.*)		Wildcat Entrada		
B 330	' FNL & 1650	. LET OT	sec.	20-19N-3W		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon	McKinley County, NM  At proposed prod. zone same as above							
	AND DIRECTION FROM NEAR	man many on noo	m ownram#		<del></del>	Sec. 28-19N-5W		
•								
	miles NW of	TOTTEON,		F ACRES IN LEASE	17 NO 6	McKinley   NM		
10. DISTANCE FROM PROPOSED* LOCATION TO NEARRST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)		330' N	760		TOT	TO THIS WELL 40		
18. DISTANCE FROM PROPOSED LOCATIONS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			19. PROPO			ROTARY OR CABLE TOOLS		
				5390'		ROTARY		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
	7' GR					June 1, 1980		
23.	P	ROPOSED CASII	NG AND C	EMENTING PROGRA	.м			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		SETTING DEPTH		QUANTITY OF CEMENT		
12¼"	8-5/8"	24#		200'		irculated		
7-7/8"	5월"	14	#	5390'	10	00 sacks		
Entrada for	sed to drill mation. The	blow out	al de prev	pth of 5390 ention prog	' to ram i	test the s as follows:		
<del>_ ,</del> :	of drill pi	pe rams.	.11 :	not dodica	+ 5.0.4.			

The acreage allocated to this well is not dedicated t gatherer.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and preventer program, if any.

U. S. GEOLOGICAL SURVEY

DURANGO, COLO. / Region Oper. Mgr.

4/8/80 DATE

(This space for Federal or State office use)

APPROVAL DATE PERMIT NO.

APPROVED AS AMENDED

CONDITIONS OF APPROVAL, IF ANY:

TITLE **NMOCC** 

JAMES F. SIMS

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

\*See Instructions On Reverse Side

DISTRICT ENGINEER

## OIL CONSERVATION DIVISION

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

# P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

Operator			Lease		Well No.			
CITIES SERVICE COMPANY			FEDERAL "E"			1 .		
Unit Letter	nit Letter Section Township		1		County			
В	28	19N		5W	McKinley			
Actual Footage Location of Well:  330 feet from the North line and 1650 feet from the East line								
Ground Level Elev.	<del></del>		Pool			Dedicated Acreage:		
6687 Entrada			Wildcat			40 Acres		
330 feet from the North line and 1650 feet from the East line  Ground Level Elev. Producing Formation Pool Dedicated Acreage:								
	So	ec.		 	Compo	ties Service Co.		
	 		<b>-</b> <del>-</del>		Date S Ma Regis and/or			
		2110 2440 2000	1500	1000 80	Certif			

### DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:

Santa Fe

SERIAL NO.:

NM 6999

and hereby designates

NAME:

Cities Service Company

Address:

P. O. Box 300

Tulsa, Oklahoma 74102

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 19 North, Range 5 West, N.M.P.M.

Section 22:  $SW_{\frac{1}{4}}$ ;

Section 28:  $E_{\frac{1}{2}}^{\frac{1}{2}}$ ,  $NW_{\frac{1}{4}}^{\frac{1}{4}}$ ,  $N_{\frac{1}{2}}^{\frac{1}{2}}SW_{\frac{1}{4}}^{\frac{1}{4}}$ ,  $SE_{\frac{1}{4}}^{\frac{1}{4}}SW_{\frac{1}{4}}^{\frac{1}{4}}$ .

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

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James L. Ludwick

P. O. Box 70

(Date)

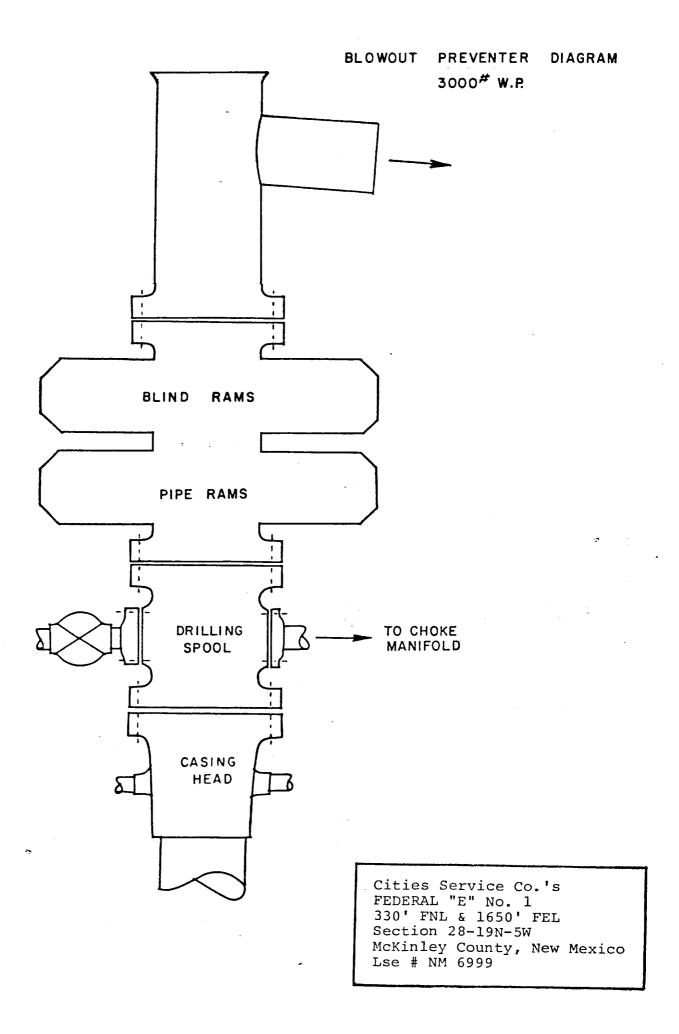
March 24, 1980

T. C. DOX 10

Farmington, New Mexico 87401

(Address)

U. S. GOVERNMENT PRINTING OFFICE 16-53598-3



#### MULTI-POINT SURFACE USE AND OPERATIONS PLAN

CITIES SERVICE COMPANY
WELL NO. 1 FEDERAL "E"

330' FNL & 1650' FEL, SECTION 28-19N-5W
MCKINLEY COUNTY, NEW MEXICO
FEDERAL LEASE NO. NM-6999

This plan is submitted with the Application for Permit to Drill the captioned well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operation plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operation, so that a complete appraisal can be made of the environmental effects associated with the operation.

The well has been staked by Mr. Fred Kerr, a Registered Land Surveyor and the work area and access road have been staked and flagged. Mr. Bill Naylor with the San Juan Community College in Farmington has been commissioned to make an Archaeological survey of the work area and access road. His findings concerning cultural resources will be reported to the Bureau of Land Management in Farmington, New Mexico.

#### 1. Existing Roads

A portion of a McKinley County highway map is attached which shows the proposed location in relation to the towns of Cuba and Torreon, New Mexico and the existing road system leading into the area.

#### Direction to Location:

Start at Torreon which is 27 miles southwest of Cuba, New Mexico. From Torreon go northwesterly 7 miles to a gate on the right and a large pink water storage tank. About 100 yards before coming to the water tank, turn right and follow the old road 2.7 miles. Turn right on an existing trail that goes within 50-75 feet of the location.

#### 2. Planned Access Road

- A. Dirt contractor will run motor grader over the 2.7 miles of old road and will improve the existing trail that goes within 50-75 feet of the location. The completed access road will be 12 feet wide and about 0.9 mile long. See attached vicinity map.
- B. Surfacing material: The roadway will be bladed, watered and graded. There may be some spots that will need to be topped with local red rock. The work area will be topped with red rock if necessary.

#### Planned Access Road - cont.

- C. Maximum grade: The terrain is rolling. Maximum grade 3%.
- D. Turnouts: Two passing turnouts will be constructed at 0.3 and 0.6 mile from the beginning of the access road. This construction will increase the width of the new road to 20 feet for a distance of 30 feet.
- E. Drainage design: Access road will have a drop of 6 inches from center line to each side.
- F. Culverts: None needed
- G. Cuts and fills: Location will need to be leveled as shown on attached profile prepared by Kerr Land Surveying 3-31-80.
- H. Gates and cattleguards: None required.

### 3. Location of Existing Wells

Existing wells within a two mile radius of our proposed Federal "E" No. 1 are spotted on the third attached plat.

## 4. Location of Existing and/or Proposed Facilities

There are no existing facilities in the area.

Proposed production facilities will be set on the drilling pad approximately 150 feet from the well. The equipment will consist of a heater treater and 2-500 barrel tanks to store crude oil and 1-500 barrel tank to store produced water. All equipment will be fenced with a chain link fence and painted in accordance with BLM stipulation.

## 5. Location and Type of Water Supply

A fresh water mud system will be used to drill this well and fresh water will be purchased and trucked to the well site over existing and proposed roads.

One source of supply is Entrada produced water available in Section 15 to the north from Dome Petroleum Corp's tank battery in the Papers Wash Pool.

Another source is at the Pueblo Alto Trading Post and a third source is Chapman's water hole at Escrito on Highway 44.

## 6. Source of Construction Material

Red Rock for the access road and well pad will be purchased and hauled by the dirt contractor from the nearest possible source.

## 7. Methods of Handling Waste Disposal

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be collected and buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by wind.
- F. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.

# 8. Ancillary Facilities

A. None needed.

## 9. Well Site Layout

A. A plat of the well site is attached which shows dimensions of well pad, mud pits, reserve pit and location of major rig components.

## 10. Plans for Restoration of the Surface

- A. After completion of the well, all equipment not needed for operations will be removed.
- B. All unattended pits containing liquids will be fenced and the liquid portion allowed to evaporate before the pits are broken and backfilled.

#### Plans for Restoration of the Surface - cont'd.

- C. All waste associated with the drilling operation will be buried in place in a separate pit. Garbage and debris will be buried at least 3 feet deep.
- D. Surface restoration will be in accordance with the requirements of the Bureau of Land Management.
- E. The well site, if a producer, will be maintained and kept clean of all trash and litter or other foreign material which detracts from the surrounding environment. Equipment will be maintained in accordance with good operating practices.

After the well site is cleaned and pits backfilled, any obstruction to the natural drainage will be corrected by ditching and/or terracing. All disturbed area, including any access road no longer needed, will be ripped and sown in grass seed recommended by the BLM.

#### 11. Other Information

- A. Topography: Terrain is rolling and broken. Drainage is to the north into "Papers Wash".
- B. Soil: Thin fine sandy soil with numerous Red Rock outcrops.
- C. Flora and Fauna: Vegetative cover is sparse sage and native grasses. No trees. Wildlife in the area includes coyotes, rabbits, rodents, reptiles, dove, quail and deer.
- D. Ponds and Streams: No streams or ponds were noted in the area.
- E. Residences and Other Structure: None noted in the immediate area.
- F. Archaeological, Historical and Cultural Sites: None observed. Mr. Bill Naylor with the San Juan Community College in Farmington, New Mexico has been engaged to make a survey of the well pad and access road.
- G. Land Use: Ranching.
- H. Surface Ownership: The well site and access road are all on Federal surface administered by the BLM.

### 12. Lessee's or Operator's Representative:

Cities Service Company's representative responsible for assuring compliance with the approved surface use and operation plan is:

E. Y. Wilder Cities Service Company Region Operations Manager P. O. Box 1919 Midland, Texas 79702

Office Phone: 915/ 685-5751 Home Phone: 915/ 694-8626

#### 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and, that the work associated with the operations proposed herein will be performed by Cities Service Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

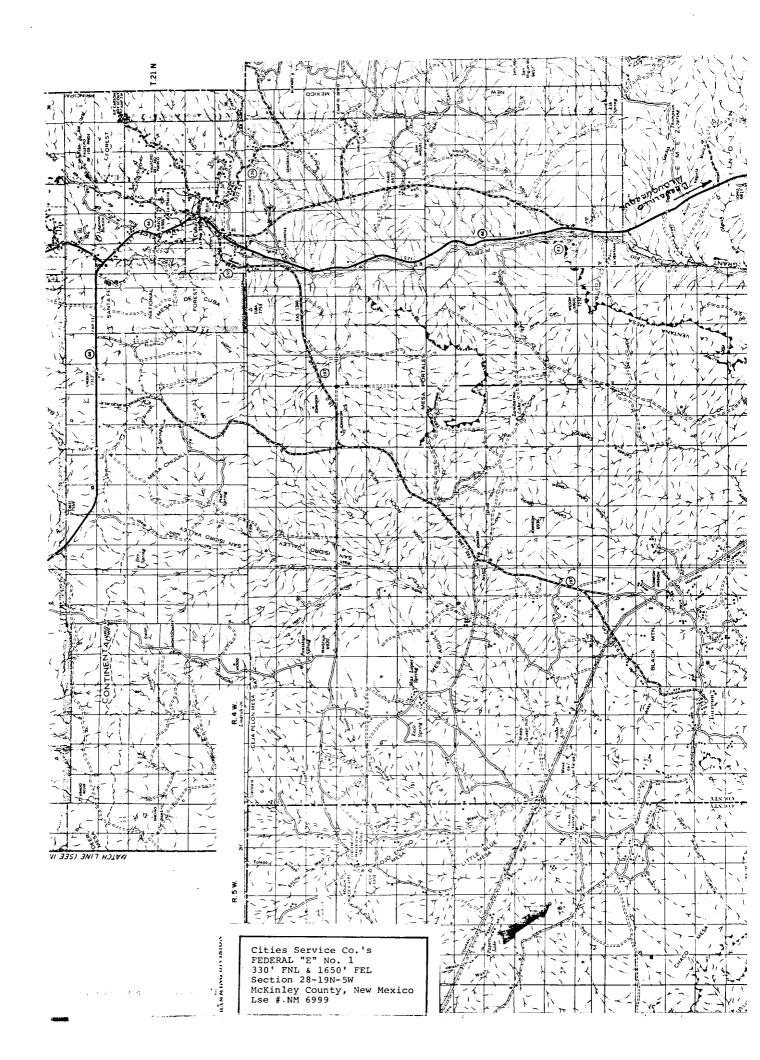
4/9/80

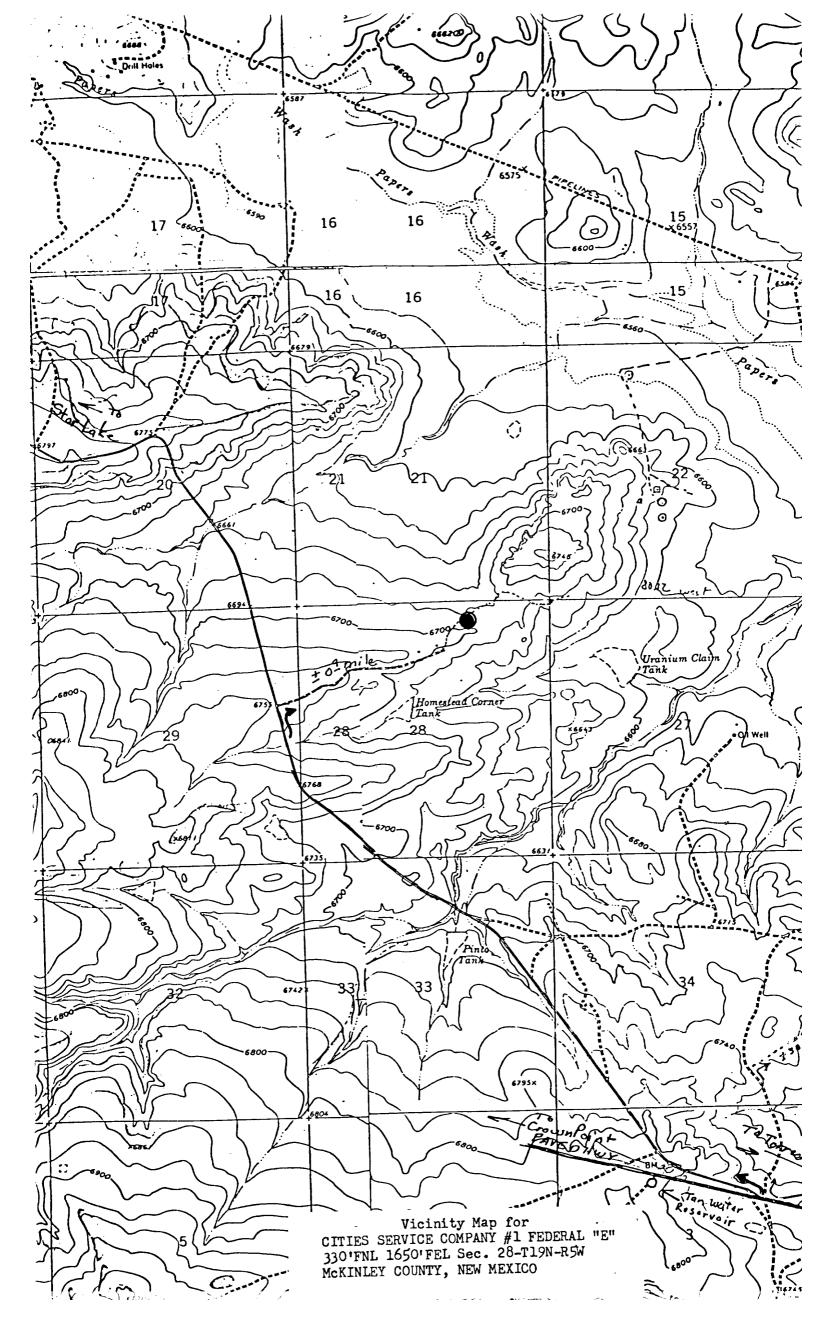
Region perations Manager

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

EYW:bak

attachments



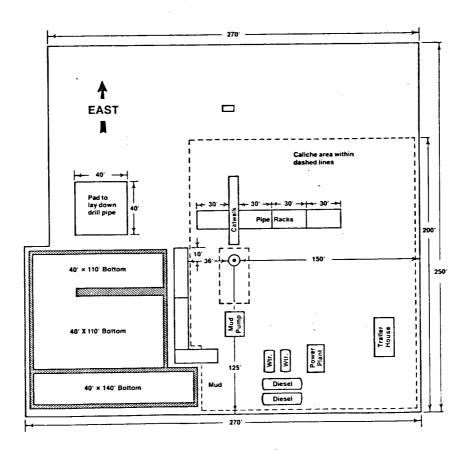


8	9.1LVER 1-17NAVAJO 10.1949 	DOME 2-STALE TD5185 4 DOME 1-NAVA-C TD5393	PAPERS WASH POOL		13	,
19	20	2 CHI SERVICE	DOME 1-22 NAVAJO 1D 5362 DOME 2-22 FED 2TD 5355 CIT.SERVICE KENNEDY 3-FED TD 550	23	. 24	
DAVIS 1-PAPERTHIN TD 4285  AMER, FIBER 1 SANTA FE TD J550		PROPOSED LOCATION C3C # 1'FEDERAL'E'  28	27 .♦ EAST PETR	2-PAPERTHIN TO 3083  EAST. PETR. 1-PAPERTHIN TD 4249  26  DOME 1-26 FED TD 8936  \$\displaystyle{\phi}\$	25	
DUNIGAN DUNIGAN 2-SANTA FE 1 D 5 2 0 7 + +	32	33	. 34	35	36	

CITIES SERVICE CO.'s
FEDERAL "E" NO. 1
330' FNL & 1650' FEL
SECTION 28-19N-5W
McKINLEY COUNTY, NEW MEXICO
LEASE #NM 6999
SCALE: 1"-2000'

## LOCATION PLAT

Rig Up with V-Door to East and Reserve Pit to North



Cities Service Co.'s
FEDERAL "E" No. 1
330' FNL & 1650' FEL
Section 28-19N-5W
McKinley County, New Mexico
Lse # NM 6999

Vert. 1"=40" 68.80 6670 0620 1600 6670 6833 11 1 1 m 8-8' The state of C. 70 G 6984 Horiz: 1"= 100' 016685 58506 Profile for CITIES SERVICE COMPANY #1 FEDERAL SES 330'FNL 1650'FEL Sec. 28-T19N-R5W McKINLEY COUNTY, NEW MEXICO 0 F92 100' 16731 B 6693 660 Reserve 4. B'6684 F 30 125 2822 1690 F20 F20 KERR LAND SURVEYING Date: 3/3//80 6630 Vert: 1"340" 4693 D 66 Ba 6670 0.60 A. C-C, 0-5 Morie: 1'= 100' 31