· · ·			<u>, 1 2</u>	RECEIVE	D	y>1-
Form 9-331 C				SUBMIT IN T	ICATE•	Form approved. Budget Bureau No. 42-R1425.
(May 1963)	DEP/	UNITED STATES ARTMENT OF THE II		(Other instruct		30-015-23323 5. LEASE DESIGNATION AND SERIAL NO.
		GEOLOGICAL SURVE	ΞY	O . C. D		NM 11951
APPLICATION	FOR	PERMIT TO DRILL, D	DEEPEN, C	RAPPLEUGOB	AEK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DRILL		DEEPEN		PLUG BAC	к 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL WELL A GAS		OTHER	SINGLE ZONE	MULTIPL ZONE	E	8. FARM OR LEASE NAME
2. NAME OF OPERATOR						FEDERAL "F"
Cities S	ervi	ce Company				-
3. ADDRESS OF OPERATOR	_		<u> </u>			1. 10. FIELD AND POOL, OR WILDCAT
		Midland, TX 7970				,
4. LOCATION OF WELL (Repo	rt locati 「 下C、	ion clearly and in accordance wit L, 330 FWL of Se	ction 24	urements.*) . Townsh	in	Wildcat Sta
At proposed prod. zone	Ran	ge 23E, Eddy Cou above		, 10,1101	-r UL	11. SEC., T., E., M., OB BLK. AND SURVEY OR AREA - L Sec 24, T23S, R23E
		ADUVE ION FROM NEAREST TOWN OR POST	T OFFICE*			$\frac{12}{12} \text{ county or Parish} = 13. \text{ state}$
		of Carlsbad, NM				Eddy NM
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST	D*		16. NO. OF ACI	ES IN LEASE		OF ACRES ASSIGNED HIS WELL
(Also to nearest drig. u		if any) 330'	320)	40	
18. DISTANCE FROM PROPOSI	ED LOCAT	rion*	19. PROPOSED	DEPTH	20. ROTA	RY OR CABLE TOOLS
TO NEAREST WELL, DRIL OR APPLIED FOR, ON THIS			1100'		Rot	ary
21. ELEVATIONS (Show wheth	er DF, R	T, GR, etc.)				22. APPROX. DATE WORK WILL START*
4106.6 G	R					June 25, 1980
23.		PROPOSED CASIN	NG AND CEME	NTING PROGRA	M	

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
9-7/8"	7" OD	20	300'	Circulate w/200 sx	
<u> </u>	45" OD	9.5	1100'	Circulate w/200 sx	
				1	

It is proposed to drill to a total depth of 1100' to test the San Andres formation. The blow out prevention program is as follows:

- 1. one set of blind rams.
- 2. one set of drill pipe rams.

The acreage assigned to this we RECEIVED ated to any gas gatherer.

APR 1 6 1980

U.S. GEOLUGICAL SURVEY ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: 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. Give blowout preventer program, if any.

signed	Luiller	TITLE _	Region Oper.	Mgr.	DATE	4/17/80
(This space for Federal o			APPROVAL DATE	5-14-80		
APPROVED BY CONDITIONS OF APPROVAL, I		TITLE			DATE	

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, show-ing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone. Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

U.S. GOVERNMENT PRINTING OFFICE : 1963-0-711-396

839-171

NE MEXICO OIL CONSERVATION COMMISS

1 · · · ×

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

Cities Service Co. Federal F F		All distances must be from	the outer boundaries of the Section	on	
Interver Section Township Inverse				· · · · · · · · · · · · · · · · · · ·	Well No.
Actual footise Location of with 23 South 23 Eddy Actual footise Location of with South 100 month West Interment west Environment 1980 footing footing footing footing Proof			· · · · · · · · · · · · · · · · · · ·		
1980 test mon the Diranal type iter. South ine and 330 test mon me West ine Diranal type iter. Producing formation 4106.6 Wildcat Substance S	L 24	,		Eddy	
Dread Level Producing Formation Producing Formation WildCat Call Second	1000	South	330	Host	
4106.6 Wildcat Wildcat 220-43 Ar 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to worki interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been conso dated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (I'se reverse side this form in creasery). No allowable will be avaigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I bareby certify that the informance to the avail to the informance to the set of my knowledge and below. APR 1 6 1980 U.S. EEULUGICAL SURVEY Aftersia, NEW MEXICO I bareby certify that the well located to the well avail and the set of m field mere of the best of m field mere of accel surveys made by mere or of accel surveys made by mere or of accel surveys 330 330 330			Teet nom me		
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United States Department of the Interior MAY 15 1980

GEOLOGICAL SURVEY

O. C. D. ARTESIA, OFFICE

P. O. Drawer U Artesia, New Mexico 88210

May 14, 1980

Cities Service Company P. O. Box 1919 Midland, Texas 79702 CITIES SERVICE COMPANY Federal F No. 1 1980 FSL 330 FWL Sec. 24 T.23S R.23E Eddy County Lease No. NM-11951

Gentlemen:

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 1,100 feet to test the San Andres formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
- 3. All access roads will be limited to a 12 foot wide driving surface, excluding turnarounds. Surface disturbance associated with road construction will be limited to 20 feet in width.
- 4. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
- 5. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 6. Notify the Survey by telephone 24 hours prior to spudding well.
- 7. Cement behind the 7" and 4-1/2" casing must be circulated.
- 8. Notify Survey in sufficient time to witness the cementing of the 4-1/2" casing.

- 9. Special Stipulations:
 - a. Access road will be constructed as illustrated on attached map.
 - b. Low water crossings will be constructed at locations illustrated on attached map. Crossings will be constructed along existing stream contours and will not impede water flow.
- 10. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

(Orig. Sgd.) GEORGE H. STEWART

George H. Stewart Acting District Engineer





CITIES SERVICE COMPANY ENERGY RESOURCES GROUP Box 1919 Midland, Texas 79702 (915) 684-7131

April RECEIVED

APR 1 6 1980

U.S. GEULUGICAL SURVEY ARTESIA, NEW MEXICO

United States Department of the Interior Geological Survey P. O. Drawer "U" Artesia, New Mexico 88210

> RE: Application for Permit to Drill Federal "F" No. 1 Eddy County, New Mexico

Gentlemen:

Cities Service Company respectfully requests permission to drill the Federal "F" No. 1, located 1980' FSL and 330' FWL, Section 24-23S-23E, Eddy County, New Mexico, Lease No. NM-11951.

The location, work area and access road have been staked. It is approximately 30 miles southwest of Carlsbad, New Mexico in the Bandana Point Area.

In accordance with the requirements stipulated in NTL-6 of the National Environmental Policy Act, our Application for Permit to Drill and supporting evidence is hereby submitted:

- 1. Form 9-331C, Application for Permit to Drill.
- Form C-102, Well Location and Acreage Dedication Plat certified by John W. West, Registered Land Surveyor #676 in the State of New Mexico.
- 3. The elevation of the unprepared ground is 4106.6 feet above sea level.
- 4. The geologic name of the surface formation is Permian Queen.
- 5. Rotary drilling equipment will be utilized to drill the well to TD 1100' and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.
- 6. Proposed total depth is 1100 feet.

7. Estimated tops of important geologic markers:

Permian Queen	Surface
San Andres	800'
San Andres Porosity	1070 '
TD	1100'

- 8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:
 - A. Primary objective San Andres Porosity 1070'.
- 9. The proposed casing program is as follows:

Surface: 7" OD 20# H40 ST&C new casing Production: 4-1/2" OD 9.5# H40 ST&C new casing

- 10. Casing setting depth and cementing program:
 - A. 7" OD surface set at 300'. Circulate cement with 200 sacks Class "C" with 2% CaCl.
 - B. 4-1/2" OD production string set at 1100'. Circulate cement with 200 sacks Class "C" with 2% CaCl.
- 11. Pressure Control Equipment.
 - 0 300' None
 - 300 1100' 8" 3000# ram type preventers with one set blind rams and one set pipe rams (manual operation).

The kelly will be equipped with a kelly cock, and a drill string safety value in the open position will be available on the rig floor.

- 12. Mud Program
 - 0 300' Fresh water spud mud with LCM if needed
 - 300 1100' Fresh water with LCM for seepage. Prior to drilling the San Andres porosity and running 4-1/2" production casing add gel to increase viscosity to 35-40 seconds.

- 13. Testing, Logging and Coring Program
 - A. Testing Program: None
 - B. Mud Logging Program: None
 - C. Electric Logging Program:
 - 1) GR/Cal CNL-FDC
 - 2) DLL-MSFL (Schlumberger Logs)
 - D. Coring Program: None
- 14. No abnormal temperature, pressure or H₂S gas is anticipated.
- 15. Anticipated starting date: June 25, 1980
- 16. The Multi-Point Surface Use and Operations Plan for submission to the Bureau of Land Management is attached.
- 17. If the District Engineer needs further information to evaluate this proposal, please advise.

Yours Very truly,

hullen

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

EYW:bak

attachments



