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CITIES SERVICE OIL COMPANY

Gentlemen:



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

December 30, 1976

RECEIVED

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

JAN 0 3 1977

U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

Re: Application for Permit to Drill Elizondo Federal "A" No. 5 Eddy County, New Mexico

Cities Service Oil Company respectfully requests permission to drill our Elizondo Federal "A" No. 5 located 1780' FSL and 2180' FWL of Section 34-215-27E, Eddy County, New Mexico.

The location, work area and access road has been staked. It is within the boundary of the 8-section Cities Service operated Magruder Unit adjacent to and east of the City of Carlsbad, New Mexico.

In accordance with requirements stipulated in the National Environmental Policy Act of 1969 and stated in NTL-6 Section II. B., our application for permission to drill and supporting evidence is hereby submitted.

- 1. Application for Permit to Drill
 - 1. Form 9-331C (attached).
 - Form C-102 Location and Acreage Dedication Plat certified by John W. West, New Mexico Registered Land Surveyor No. 676 (attached).
 - The elevation above sea level of the unprepared ground is 3143'.
 - 4. The geologic name of the surface formation is Permian Rustler.
 - 5. Rotary drilling equipment will be utilized to drill the well to TD and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.

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- 6. Proposed total depth is 11,830'.
- 7. Estimated tops of important geologic markers:

Bone Springs	5170
Dean	8590
Wolfcamp	8890
Canyon	9130
Strawn	10270
Atoka	10890
Morrow	11170
Chester	11780
TD ·	11830

8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Α.	Primary	objective	(top)	Morrow SS	11170
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Β.	Secondary	objectives	(top)	Wolfcamp	8890
		- · · ·		Canyon	9130
				Strawn	10270
				Atoka	10890

9. The proposed casing program is as follows:

Surface:	13-3/8''								
Intermediate:	8-5/8"	OD	24#	and	32#	K55	ST&C	new	casing
Production:	5-1/2"	OD	17#	and	20#	N80	LT&C	new	casing

- 10. Casing setting depth and cementing program:
 - A. 13-3/8" OD surface casing set at 600'. Cement with 300 sacks Class C, 4% gel, 12# Gilsonite and 1/4# Flocele/sack with 2% CaCl followed by 200 sacks Class C with 2% CaCl
 - B. 8-5/8" OD intermediate casing set at 3000'. Cement with 300 sacks Halliburton Thick Set Class C with 10# Gilsonite and 1/2# Flocele per sack and 3% CaCl followed by 800 sacks Halliburton Lite with 5# Gilsonite and 1/4# Flocele per sack followed by 200 sacks Class C with 2% CaCl.
 - C. 5-1/2" OD production casing set at 11,830'. Cement with 720 sacks Class H with 0.6 CFR-2 and 5# KCL per sack. Bring cement back to 8200'.

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11. Pressure Control Equipment

0 - 600' - None.

600 - 3000' - 12" 3000# BOP with blinds and pipe rams Tested with rig pump.

3000 - 11830' - 10" 5000# BOP with blinds, pipe rams, Hydril and rotating head, 5000# choke manifold, 80 gallon accumulator with floor and remote operation station and auxiliary power system, upper and lower kelly cock, inside BOP's for all size equipment in drill string. The BOP and choke manifold will be tested to rated working pressure 5000# by an independent testing company prior to drilling out cement in the 8-5/8" casing.

> The pipe rams and Hydril will be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.

A drill string safety value in the open position will be maintained on the rig floor at all times while drilling operations are being conducted.

BOP drills will be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.

Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.

A mud/gas separator will be installed after drilling out from under the 8-5/8" so it will be operable by 7500'.

12. Mud Program

0 - 600' - fresh water spud mud.

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600 - 3000' - fresh water. If lost circulation is encountered in the Capitan Reef, dry drill ahead to casing point using periodic vis. sweeps.

3000 - 8500' - fresh water, detergent, paper for seepage and Lime for pH control.

8500 - 11000' - brine water with caustic for pH control 9.8-10.0#/gal.

11000 - 11830' - Drispac 10.0-10.6#/gal., 31-34 vis., 10-12 cc water loss, pH 9-11.

- 13. Testing, Logging and Coring Program
 - A. Two (2) DST's Morrow and Strawn.
 - B. Mud Logging Program one man unit 8800' to TD.
 - C. Electric Logging Program Compensated Neutron-Formation Density, Dual Laterolog-R_{xo}, Coriband.
 - D. Coring Program none.
- 14. No abnormal temperatures or H_2S gas is anticipated. Possibility of high pressure zones in Wolfcamp, Strawn and Atoka. Adequate flare lines will be installed off the mud gas separator and testing equipment to insure that gas may be piped away a safe distance from the well where it may be ignited and burned.

In addition to the pressure control equipment described in Item No. 11, the following equipment will be installed and in operation before drilling into the Wolfcamp zone:

a. Swaco adjustable choke in choke manifold.

- b. Pit volume totalizer.
- c. Flow line sensor.
- d. Degasser.
- e. 100 barrel trip tank with pump.

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- 15. Anticipated starting date is one week after this Application for Permit to Drill is approved by the Geological Survey. It should take approximately 40 days to drill the well to TD and another 7-21 days to complete.
- 16. Designation of Operator from Flag-Redfern Oil Company and Pioneer Production Corporation (attached).
- If the District Engineer requires additional information to support Form 9-331C, please contact me at the above address.

11. Multi Point Surface Use and Operations Plan

1. Existing roads.

A portion of an Eddy County highway map is attached which shows the location of the Elizondo Federal "A" No. 5 in relation to the City of Carlsbad and U. S. Highway 62-180.

The second map is a portion of a USGS Carlsbad Quadrangle Map showing the location in relation to the surrounding topography.

The third map is a portion of an ownership map which shows the boundary of our 8-section Magruder Unit outlined in yellow with all existing wells in the vicinity and our proposed location.

Directions to location:

Starting point: Intersection of Greene and Canal streets in the downtown area of Carlsbad, New Mexico.

Go 2.7 miles in a northeasterly direction on Highway 62-180. Turn right toward Eddy County Sheriff's Posse Rodeo arena. Make a sharp left turn onto a county road and proceed 0.4 mile east on the County road. At this point, turn 400' north to location.

- 2. Planned Access Road
 - A. The fourth map shows the road system in the area of the location. The segments are color coded. Black denotes highways and city streets. Yellow indicates caliche lease roads. Blue shows county roads and red shows the 400' proposed caliche access road to the location. The new road will be 12' wide. It will enter the drilling pad at the southeast corner. The eight section Magruder Unit is outlined in yellow.

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- B. Surfacing material: six inches of caliche, watered, compacted and graded.
- C. Maximum grade: access road and location is level.
- D. Turnouts: none needed.
- E. Drainage design: New road will have a drop of 6" from center line to each side.
- F. Culverts: none needed.
- G. Cuts and fills: none needed. Road and location are level.
- H. Gates and cattleguards: none needed.
- 3. Location of Existing Wells

Existing wells are shown on the ownership map.

4. Location of Existing and/or Proposed Facilities

At each of the existing wells in the Magruder Unit, production equipment is set on the caliche drilling pad approximately 150' from the well. The equipment consists of two (or more) - 300 barrel tanks to collect condensate and water which is trucked to sale or disposal and a production unit (stack pack). The gas purchaser installs necessary gas measuring equipment and gathering system for gas. All equipment is fenced with chain link fence.

If the Elizondo Federal "A" No. 5 is a producer, the same type and size equipment will be set on the drilling pad.

5. Location and Type of Water Supply

Fresh and brine water will be purchased and trucked to the well site over the existing and proposed roads.

6. Source of Construction Materials

Caliche for surfacing the access road and well pad will be obtained from a State pit located NW/SE Section 35-21S-27E approximately 1.2 miles east of the well location.

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- 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 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 the wind. Location of trash pit is shown on the well site payout.
 - 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 required.
- 9. Well Site Layout
 - A. A plat of the well site is attached which shows well pad, mud pits, reserve pit, trash pit and location of major rig components.
 - B. The reserve pit will be plastic lined.
- 10. Plans for Restoration of the Surface
 - A. After completion of the well, all equipment not needed for operation 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.

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- 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' deep. Any plastic material used to line the pits will be cut off below ground level, as far down as possible, and disposed of before the pits are covered.
- D. Surface restoration will be in accordance with our agreement with the surface owner, Mr. Robert Light, 1409 W. Orchard Lane, Carlsbad, New Mexico. Telephone No. 885-8263.
- 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 painted and maintained in accordance with good operating practice.

After the well site is cleaned and pits and sumps backfilled, any obstruction to the natural drainage will be corrected by ditching and/or terracing. All disturbed areas, including any access road no longer needed, will be ripped.

- 11. Other Information
 - A. <u>Topography:</u> land surface is undulating to gently rolling and duny. From an elevation of 3143' at the well site, the land surface slopes gently to the south toward the Pecos River at about 30-40 feet per mile.
 - B. Soil: soil is a deep fine sand underlain by caliche.
 - C. Flora and Fauna: the vegetative cover is generally sparse and consists of mesquite, yucca, shinnery oak, sandsage and perennial native range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.
 - D. Ponds and Streams: the Pecos River runs in a southeasterly direction about two miles south of our location at the nearest point.

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- E. <u>Residences and Other Structures</u>: a machine shop is approximately 1/4 mile west on Highway 62-180. A trailer house is 3/8 mile southwest.
- F. Archeological, Historical and Cultural Sites: none observed in the area. The Agency of Conservation Archeology in Portales, New Mexico has been engaged to make a survey of the well pad and access road. Their findings will be reported to you.
- **G.** Land Use: business development along both sides of Highway 62-180 and a subdivision is in the planning stage by the surface landowner.
- H. Surface Ownership: the surface is owned by:

Mr. Robert Light 1409 W. Orchard Lane Carlsbad, New Mexico 88220

Telephone No. (505) 885-8263

12. Lessee's or Operator's Representative

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

> E. Y. Wilder Cities Service Oil Company Region Operations Manager Box 1919 Midland, Texas 79701

Telephone No. (915) 684-7131

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

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will be performed by <u>Cities Service Oil Company</u> and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

30/76 12 Date

Region Operations Manager

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

Yours very truly,

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

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Attachments

BLOWOUT PREVENTER DIAGRAM





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CITIES SERVICE OIL COMPANY





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_ SURFACE OWNERSHIP PLAT ____ Sec. 34 - 215 - 276. EDDY COUNTY -____ TIEW MEXICO _____

