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F. O. Box 191	19 - Midland, Te	exas 79701				10. FIELD	AND POOL, OR WILDCAT	
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12-1/4"	<u>8-5/8"</u> 5-1/2"	24 & 32		3000'		0 sacks		
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NE IEXICO OIL CONSERVATION COMMISS

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CITIES SERVICE OIL COMPANY

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

September 8, 1976

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

Gentlemen:

RECEIVED SEP 0 9 1976 U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

Re: Application for Permit to Drill Elizondo-Federal "A" No. 4 Eddy County, New Mexico

In accordance with requirements stipulated in the National Environmental Policy Act of 1969 as stated in NTL-6 Section II. A. a Preliminary Environmental Review was submitted on August 23, 1976 requesting permission to stake Cities Service Oil Company's Elizondo-Federal "A" No. 4 located 660' FNL and 1980' FWL Section 34-21S-27E, Eddy County, New Mexico.

The location has since been staked and we respectfully request your approval of our Application for Permit to Drill.

The Elizondo-Federal "A" No. 4 is within the boundary of the Cities Service operated Magruder Unit adjacent to and northeast of the City of Carlsbad, New Mexico.

As outlined in NTL-6 Section II. B., our application and supporting evidence is hereby submitted:

I. Application for Permit to Drill

- 1. Form 9-331C (attached).
- Form C-102 Well Location and Acreage Dedication Plat certified by John W. West, New Mexico Registered Land Surveyor No. 676 (attached).
- 3. The elevation above sea level of the unprepared ground is 3167.95'.
- 4. The geologic name of the surface formation is Permian Rustler.

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- 5. Rotary drilling equipment will be utilized to drill the well to T.D. 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 11710'.
- 7. Estimated tops of important geologic markers:

Bone Spring	5050 ⁱ
Dean	8470'
Wolfcamp	8770'
Canyon	9910'
Strawn	10150'
Atoka	10770'
Morrow	11050'
Chester	11660'
T.D.	11710'

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

Α.	Primary objective (top) Morrow Sands	11050'
Β.	Secondary objectives (top) Strawn Atoka	10150' 10770'

9. The proposed casing program is as follows:

Surface:	13-3/8" OD 48# H40 ST&C new casing
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.

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- C. 5-1/2" OD production casing set at 11710'. Cement with 720 sacks Class H with 0.6 CFR-2 and 5# KCL per sack. Bring cement back to 8200'.
- 11. Pressure Control Equipment
 - 0 600' None
 - 600 3000' 12" 3000# BOP with blinds and pipe rams. Tested with rig pump.
 - 3000 11710' 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'.

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12. Mud Program

- 0 600' Fresh water spud mud.
- 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 11710' 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 T.D.
 - 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 T.D. and another 7-21 days to complete.
- 16. Designation of Operator from Flag-Redfern Oil Company and Pioneer Production Corporation (attached).
- 17. 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. 4 in relation to the City of Carlsbad and U. S. Highway 62-180.

Directions to location:

Starting point: Corner of Greene and Canal Streets in Carlsbad, New Mexico.

Go east on Greene Street (U. S. Highway 62-180) 2.9 miles and turn north on "City & County Sanitary Landfill" black topped road.

Follow "City & County Sanitary Landfill" road 0.5 mile. At this point, the location is 600' east and our access road will start at this point.

- 2. Planned Access Road.
 - A. The second attached plat is an ownership map which shows the boundary of our 8 section Magruder Unit outlined in green with all existing wells in the vicinity and our proposed location.

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

The fourth map shows the road system in the area of the location. The segments are color coded. Blue denotes highway and city streets. Brown indicates caliche lease roads and red shows the 600' of planned access caliche road to the location. This new road will be 12' wide. The 8 section Magruder Unit is outlined in green.

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- B. Surfacing material: six inches of caliche, watered, compacted and graded.
- C. Maximum grade: 3 per cent.
- D. Turnouts: No turnouts are necessary.
- E. Drainage Design: new road will have a drop of 6" from center line to each side.
- F. Culverts: none required.
- G. Cuts and fills: none required in road. Location will have 3' cut on the south side and 3' fill on the north.
- 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. 4 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 wellsite over the existing and proposed roads.

6. Source of Construction Materials.

Caliche for surfacing the road and well pad will be obtained from an existing pit in the SW/4 SE/4 Section 27-21S-27E just north of our proposed location. The pit belongs to James T. McKinney,

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512 E. Wood St., Carlsbad, New Mexico, telephone number (505) 885-3747. The location of the pit is colored yellow on the fourth map showing the road system.

- 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 wellsite layout.
 - F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. Ancillary Facilities.
 - A. None required.
- 9. Wellsite Layout.
 - A. A plat of the wellsite is attached which shows well pad, mud pits, reserve pit, trash pit and location of major rig components.
 - B. The wellsite is slightly out of level. It will be necessary to make a 3' cut to the south and a 3' fill to the north.
 - C. 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.

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- B. All unattended pits containing liquids will be fenced and the liquid portion allowed to evaporate before the pits are broken and backfilled.
- 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 the requirements of the B. L. M.
- 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 wellsite is cleaned and pits and sumps backfilled, any obstruction to the natural drainage will be corrected by ditching 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 3168' at the wellsite, the land surface slopes gently to the southwest 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. <u>Ponds and Streams</u>: The Pecos River runs in a southeasterly direction about 2-1/2 miles south of our location at the nearest point.

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- E. <u>Residences and Other Structures</u>: There are no residences within a mile of the location. The closest business is the Truck Yard and Office of Rowland Trucking Company approximately 3/4 mile southwest on U. S. Highway 62-180.
- F. Archeological, Historical and Cultural Sites: None observed in the area.
- G. Land Use: Grazing.
- H. <u>Surface Ownership</u>: Wellsite and access road is on Federal surface with a grazing lease to the W. W. Simpson Ranch whose administrator is:

Frankie V. Laman P. O. Box 791 Carlsbad, New Mexico 88220

- Mrs. Laman has been notified of our intent to drill.
- 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 Number: (915) 684-7131

13. Certification.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 <u>Cities Service</u> <u>Oil Company</u> and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Region Operations Manager September 8, 1976 Date and Title

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September 8, 1976

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

Yours very truly, miller

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

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EYW/1s

Attachments







3' CUT BU SOUTH



BLOWOUT PREVENTER DIAGRAM

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