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NEW MEXICO OIL CONSERVATION COMMISSION

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Form C-102 Supersedes (f-128) Effective 1-2-65

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United States Department of the Interior

GEOLOGICAL SURVEY

SPECIAL APPROVAL STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

GULF OIL CORPORATIONRECENTEDCallaway Federal No. 3NE4SW4 Sec. 6 T. 16S R. 28EEddy County New MexicoOCT 2 3 1990Lease No. NM-30395O. C. D.

ARTESIA, OFFICE

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED UPON COMPLIANCE WITH SUCH STIPULATIONS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE SPECIAL STIPULATIONS PURSUANT TO TITLE 30 CFR 290.

A. A. <u>cement circulated to the surface.</u> If surface casing is set at a lesser depth, the <u>casing must be cemented from the casing shoe to the surface or</u> <u>cemented to the surface through a stage tool set at least 50 feet below the top</u> of the Rustler after cementing around the shoe with sufficient cement to fill to the base of the salt section.

- B. Before drilling below the <u>8%</u> casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
- C. Casing protectors will be run on drill pipe while drilling through the ______ casing. Protectors will be of sufficient number and of sufficient outside diameter to protect the casing.
 - D. Minimum required fill of cement behind the _____ casing is to ______
- E. After setting the <u>S</u>^{*}/⁰ casing string and before drilling into the <u>WOLFCANP</u> formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.

F. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the **MOLECAMP** formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- A recording pit level indicator to determine pit volume gains and losses.
- (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- G. All pits containing toxic liquids will be fenced and covered with a fine mesh netting, if necessary for the protection of livestock or wildlife.
 - H. Above ground permanent structures and equipment shall be painted in accordance with the Painting Guidelines. The paint color is to simulate:

Sandstone Brown, Fed. Std. 595-20318 or 30318

OR 🔀 Sagebrush Gray, Fed. Std. 595-26357 or 36357

A kelly cock will be installed and maintained in operable condition.



The ARTESIA Sub-District Office is to be notified in sufficient time for a representative to witness:

- (a) Spudding 4
- (b) Cementing casing

	inch
·	inch
	inch

(c) -BOP tests

- K. A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the U. S. Geological Survey, P. O. Box 26124, Albuquerque, New Mexico 87125. The effective date of the agreement must be prior to any sales.
- L. A Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.
 - M. At least one working day prior to constructing the well pad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer (Bureau of Land Management, <u>ARLSBAD</u> area). He shall also notify the Authorized Officer within two working days after completion of earth-moving activities.
- N. All access roads constructed in conjunction with the drilling permit (APD) will be limited to a <u>12</u> foot wide driving surface, excluding turnarounds. Surface disturbance associated with construction and/or use of the road will be limited to <u>20</u> feet in width. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts and/or any other measures deemed necessary by the authorized officer of the BLM. The following is a general guide for the spacing of water bars:

% Slope

less than	2%												200	ft.
2% to 4% .						ż					,		100	ft.
4% to 5% .													75	ft.
more than	5%												50	ft.
Other spec	ia]	S	t	ipı	JÌ.	it	ioi	15						

Any permanent pit containing waste oil must be fenced and covered with mesh wire.

KN Utilizé EXISTING two track ROAD AS Access which originates 100 yds WAST OF butf Colloway #1 and -3- proceeds JouthEast to War SIDE OF Guff Colloway B LOCATION.



The clasing menifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be lobeled, with control handles indicating open and closed politions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be evollable to limit operating fluid pressures to rem preventers. Guif Legion No.30 hydraulic ail, on equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be solected for operation in the presence of all, gas, and drilling functs. The choke flew line valves connected to the drilling spool and all rum type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles. The cheke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible

* To include derrick floor mounted controls.

and Production Company bases of

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA October 10, 1980

P. O. Box 670 Hobbs. NM 88240

U. S. Geological Survey P. O. Drawer U Artesia, New Mexico 88210

Gentlemen:

The following is Gulf Oil Corporation's plan for surface restoration associated with the drilling of our Callaway Federal No. 3, to be located 1980' from the south line and 1980' from the west line of Section 6, Township 16 South, Range 28 East, Eddy County, New Mexico.

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible. Any unguarded pits containing fluids will be fenced until they are filled.

After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and the location will be cleaned. The pit area, well pad and all unneeded access roads will be ripped to promote revegetation. Rehabilitation should be accomplished within ninety (90) days after abandonment.

Yours very truly,

HVH/jr

Subscribed and sworn to before me this 10th day of October, 1980.

OFFIC D. C. NOTARY PUBLIC - NEVY MARTICO NOTARY BOND FILED WITH DECELEMENT OF JUST My Commission Expires 3-21-5.2 and the second s



the Gulf Oil Exploration and Production Company stated

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA October 10, 1980

P. O. Box 670 Hobbs. NM 88240

Application for Permit to Drill Re: Callaway Federal #3 Eddy County, New Mexico

U. S. Geological Survey P. O. Drawer U 88210. Artesia, New Mexico

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: Callaway Federal Well No. 3

- 1980' FSL & 1980' FWL, Section 6-T16S-R28E, Eddy County, New (1) Location: Mexico
- (2) Elevation of Unprepared Ground: 3558.3'
- (3) Geologic Name of Surface Formation: Quarternary alluvium
- (4) Type Drilling Tools: Rotary
- (5) Proposed Drilling Depth: 9200**'**
- (6) Estimated Tops of Geologic Markers: Yates 150'; Queen 1000'; Tubb 4370'; Abo

5145'; Wolfcamp 6345'; Canyon 7425'; Strawn 8205'; Atoka 8628'; Chester 9140'

- Estimated Depths at Which Anticipated Gas or Oil-Bearing Formations Expected: (7) Atoka Morrow section 8628' to 9140' may produce gas.
- (8) Casing Program and Setting Depths:

	Size	Weight	Grade	Setting Depth		
Surface	11-3/4"	42.# 2.4#	H-40	400' 1700'		
Intermediate Production	8-5/8'' 5½''	15.5 & 17#	к - 55 к - 55	9200'		

- (9) Casing Setting Depth and Cementing Program:
 - (a) Surface casing will be set at 400', cemented with 500 sacks of light cement followed by 100 sacks of Class "H" with 2% CaCl₂.
 - Intermediate casing will be set at 1700' and cemented with 300 sacks (b) of light weight cement and 200 sacks Class "C" neat.



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(9) Casing Setting Depth and Cementing Program (continued):

(c) Production casing will be set at 9200' and cemented with adequate volume of Class "H" cement with friction reducer to bring cement top to approximately 6500'. NOTE: Volume of cement to be determined after running caliper log at total depth.

(10) Pressure Control Equipment:

The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 3 of Gulf's blowout preventer hook-up for 3000 psi working pressure.

(11) <u>Circulating Media</u>:

Q-400' fresh water spud mud; 400-6000' fresh water; 6000-8000' brine water; 8000-9200' brine water polymer.

- (12) Testing, Logging and Coring Program:
 - (a) Formation testing may be done at any depth where samples, drilling rate or log information indicate a possible show of oil or gas.
 - (b) Open-hole logs will be run prior to running casing at total depth.
 - (13) Abnormal Pressure or Temperature and Hydrogen Sulfide Gas:

We do not anticipate any abnormal pressure or temperature; however, the following equipment will be installed while nippling up on intermediate casing for pressure control and detection: remote-controlled adjustable choke on flow manifold, drilling separator with gas vent line to burn pit, pit level sensors, flowline sensors and remote control BOP as shown on Drawing No. 3.

The presence of hydrogen sulfide gas is not anticipated.

(14) Anticipated Starting Date:

Drilling operations should start between October 25, 1980 and November 15, 1980.

(15) Other Facets of the Proposed Operations: None

Yours very truly,

anderson PPV

R. C. ANDERSON Area Production Manager

HVH/jr

Gulf Oil Exploration and Production Company

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA October 10, 1980

P. O. Box 670 Hobbs. NM 88240

Re: Surface Development Plan Proposed Callaway Federal #3 1980' FSL & 1980' FWL Section 6-T16S-R28E Eddy County, New Mexico

RECEIVED

OCT 1 4 1980

Gentlemen:

P. O. Drawer U

U. S. Geological Survey

Artesia, New Mexico

U.S. GEOLUGICAL SURVEY

The surface use and operations plan for the surface well are as follows:

1. Existing Road

88210

- A. Exhibit "A" is a portion of a general lease map showing the location of the proposed well as staked. Go east out of Lake Arthur on State Road 507 10 miles; turn right through cattle guard and go ½ mile; keep right. Our Callaway Federal #3 location is approximately .5 miles southeast of our Callaway Federal #1. The .5 mile existing road will be repaired
- B. Exhibit "B" is a portion of a lease map showing all existing roads within a one-mile radius of the well site.
- 2. Planned Access Roads
 - A. <u>Length & Width</u>: The new road required will be 12' wide and approximately 100' long. The new road is color-coded red on Exhibit "A" and Exhibit "B". The proposed road has been staked and flagged.
 - B. <u>Surfacing Material</u>: Six (6) inches of caliche, water compacted and graded.
 - C. Turnouts: None required
 - D. Culverts: At location
 - E. <u>Cuts and Fills</u>: Three foot cut on southwest side of location and three foot fill on northeast side of location.
 - F. Gates and Cattle Guards: None
- 3. Location of Existing Wells

Existing wells within a one-mile radius are shown on Exhibit "B".



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Location of Proposed Facilities

- Should this well be completed as a commercial producing well, new tank battery facilities will be required. These facilities will be constructed within the 400' x 400' work area as staked. All lines will be installed above ground and located as shown on Exhibit "C".
 - 5. Location and Type Water Supply Water for drilling well will be purchased from a supplier and transported by truck to the well site over existing and proposed roads shown in Exhibit "B".
 - 6. Source of Construction Material
 - Caliche for surfacing the road and the well pad will be obtained from a Federal pit in the SE/4 of NE/4 of Section 11-T16S-R28E.
 - 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" of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "D".
 - 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. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit, and location of major rig components.
 - B. Only minor levelling of the well site will be required. One cut and one fill will be necessary.

U. S. Geological Survey

-3-

Size Layout (continued) Well Site Layout (continued)

- C. The reserve pit will be plastic lined.
 - D. The pad and pit area have been staked and flagged.
- 10. Plans for Restoration of the Surface
 - A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and location will be cleaned. The pit area, well pad, and all unneeded access roads will be ripped to promote revegetation. Rehabilitation should be accomplished within 90 days after abandonment.

11. Other Information

- * A. Topography: Land surface is generally level with a deep sand cover. The undisturbed well site elevation is 3558.3'.
- B. Soil: Soil is a deep, fine sand underlain by caliche.
 - C. <u>Flora and Fauna</u>: The vegetative cover is generally sparse and consists of scrub oak and perennial native grasses. Wildlife in the area is typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail and other birds.
 - D. <u>Ponds and Streams</u>: There are no rivers, streams, lakes or ponds in the area.
 - E. <u>Residences and Other Structures</u>: There is an occupied dwelling in the immediate area, located 1.7 miles northwest of the proposed location in Section 6-T16S-R28E. The residence is located in Section 34-T15S-R27E. The nearest water well is located approximately 1.8 miles northwest of the proposed location.
 - F. <u>Archeological, Historical and Cultural Sites</u>: None observed in the area.
 - G. Land Use: Grazing and hunting, in season.
 - H. Surface Ownership: Surface is Federal.

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representative12. Operator's Representative

the approved surface use and operations plan is as follows: the approved surface use and operations plan is as follows:

> Gulf Oil Exploration and Production Company A Division of Gulf Oil Corporation P. O. Box 670 Hobbs, New Mexico 88240 Telephone: (505) 393-4121 Area Production Manager: R. C. Anderson

13. Certification

I hereby certify that I, or persons under my direct supervision, . 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 operations proposed herein will be performed by Gulf Oil Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

10-10-80 Date

R. C. Anderson Area Production Manager







Exhibit C" Callawry Fed #3 Sec 6 Tibs, R28E Eddy Co, New Mexico Drilling Pad hayout



