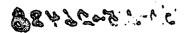
Form 3150-3 (July 1939) (formeriy 9-331C)

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Coquina Oil C	Corporation /	•		13) 961-		D. WELL, NO.	1000101	
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4. LOCATION OF WELL (Report		accordance with	any State requir	ementa.")	χV	Frontie		. Strawn
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At proposed prod. zone 1980 FNL &	1980' FEL	ω· ·		-		Sec 21.	T23S,	R26E
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(This space for Federal or	State office use)							
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APPROVED BY Street	Storet	led 24	PAREN MANAGER CARGERAD PE	STE BREE		DATE	175	80
CONDITIONS OF APPROVAL, IF A								



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, showing 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.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved: (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operation on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

School to Appropriate Disable Office

Street of New Mexico ciesty, Minerals and Neutral Resources Department

Feren C-102 Bovised 1-1-89

OIL CONSERVATION DIVISION P.O. Bon 2088

Santa Fe, New Mexico 87504-2088

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DISTRICT II P.O. Drover DD, Armin, NM 80210

DISTRICT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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APPLICATION FOR DRILLING

COQUINA OIL CORPORATION

PHILLY FEDERAL NO. 2 1980' FNL AND 1980' FEL SECTION 21, T-23-5, R-26-E EDDY COUNTY, NEW MEXICO

In conjunction with form 3160-3, Application for Permit to Drill subject well, Coquina Oil Corporation submits the following items of pertinent information in accordance with USGS requirements.

- 1. The geological surface formation is on a gently sloping landform with surficial deposits uniformly fine grained, and made up of compacted silty loams, silty clay loams, and clay loams.
- 2. The estimated top(s) of geological markers are as follows:

Capitan	495'	Wolfcamp	8845
Lamar	1745'	Strawn	10,435
Delaware Sand	18851	Atoka	10,725
Bone Springs	5345'	Total Depth	11,000

5. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered.

Water	Surface water between 100' and 350'
011	Bone Springs below 5345' oil and/or gas
	Welfcamp below 8845'
Gas	Strawn below 10,435'

- 4. Proposed casing program: See attached form 3160-3.
- 5. Pressure control equipment: See Exhibit "4".
- 6. Mud Program: See attached form 3160-3, and Exhibit "5".
- 7. Auxiliary equipment: Kelly cock and drill pipe/collar safety valve with appropriate connections for each.
- 8. Testing and logging programs:

Possible DST(s):

Bone Springs, Wolfcamp, and the Strawn if justified by valid show of oil and/or gas.

Open hole logs:

GR-CN-LDT, DLL w/MSFL and/or others as required to evaluate formation and productivity.

- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated spud date: On on before September 20, 1990.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

COQUINA OIL CORPORATION

PHILLY FEDERAL COM. NO. 2 1980' FNL & 1980' FEL SECTION 21, T-23-S, R-26-E EDDY COUNTY, NEW MEXICO

This plan is submitted with Form 3160-3 covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations so that a complete appraisal can be made of the environmental effects associated with the operation.

EXISTING ROADS.

Exhibit 1 is a vicinity map.

Exhibit 2 is a portion of a U.S.G.S. topographic map of the area showing the location of the proposed wellsite and roads in the vicinity. The location is situated approximately eight miles south-south-west of Carlsbad, New Mexico.

Directions:

Proceed from south "Y" in Carlsbad, go south on U.S. Highway No. 62-180 for 8.0 miles.

Turn west (right) on Eddy County Road No. 408 (Dark Canyon Road), go approximately 10 miles.

Turn north (right) on Coquina Lease Road, go approximately 1.0 miles to the Philly Federal No. 1 location. Turn west and go to the proposed well location.

2 PLANNED ACCESS ROAD

- A.) The proposed access road will utilize 1 mile of existing lease road into the Philly Federal No. 1 location.
- B.) There will be 1100' of new road built from the Philly Federal No. 1 location west to the Philly Federal No. 2 location.
- C.) The road will be a caliche road approximately 20 feet in width.

LOCATION OF EXISTING WELLS:

- A.) The well locations in the vicinity of the proposed well are shown on Exhibit 2.
- B.) There are no producing wells on this lease at present.

4 LOCATION OF PROPOSED FACILITIES:

In the event that the well is productive, the necessary production facilities will be installed on the drilling pad.

LOCATION AND TYPE OF WATER SUPPLY:

It is planned to drill the well with fresh water and brine water as presented in Exhibit 5. All drilling fluids will be obtained from commercial sources and will be hauled to the location by truck over existing and proposed roads shown in Exhibits A & B.

6. SOURCES OF CONSTRUCTION MATERIALS:

Any caliche required for construction of the drilling pad and the access road will be obtained, with permission, from the BLM.

METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the U.S.G.S. for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with
- F. 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.
- 6. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

ANCILLARY FACILITIES:

None required.

WELLSITE LAYOUT

- A. Exhibit 3 shows the dimensions of the well pad and reserve pits and the location of major rig components.
- The reserve pits will be plastic lined.
- C. The pad and pit area has been staked and flagged.

PLANS FOR RESTC ON OF THE SURFACE:

- A After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

OTHER INFORMATION

- A. Topography: The proposed location will be situated on a gently sloping landform due east of the Cueva Escarpment and Dark Canyon.
- B. Soil: The topsoil at the well site is composed of compacted silty loams, silty clay loams, and clay loams. Rock is limited to a light, broken scree of highly weathered, limestone gravels and cobbles.
- C. Flora and Fauna: The plant cover is composed of the mixed, grassland/desert scrub formation is made up of American tarbush, soaptree yucca, lotebush condalia, nodding onion, desert holly, Indian rush-pea, range ratang, silver leaf night shade, tobosas, burrograss and poverty threeawn.
- D. Ponds and streams: Water is available at Yellow Jacket Spring.
- E. Residence and other structures: None in the immediate area.

12. OPERATOR'S REPRESENTATIVES:

The field representatives responsible for assuring compliance with the approved surface use plan are:

Drilling Superintendent:

Bill Baker

Mobile: 505-887-9503-01124

James F. O'Briant

Office: 915-683-5511

Vice President, Operations:

Dan L. Stephens

713-961-1770

Geologist:

Scott Gutterman

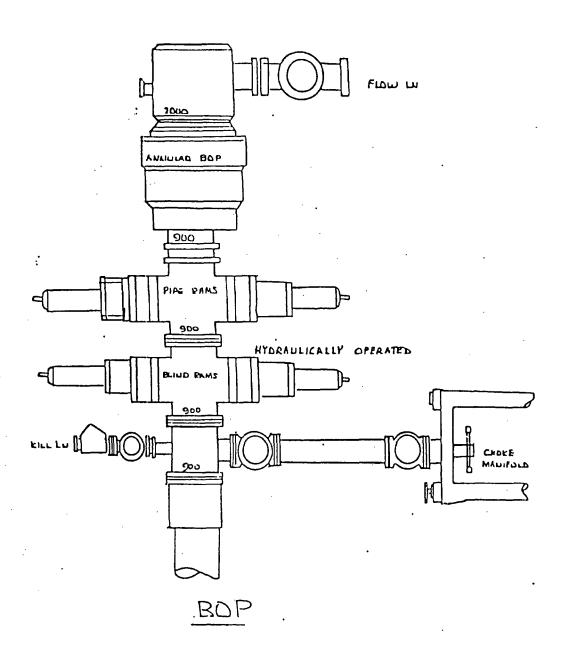
713-961-1770

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 Coquina Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Chatendu 13, 1990

Agent



COQUINA OIL CORPORATION PHILLY FEDERAL NO. 2 SEC. 21, T-23-S, R-26-E EDDY COUNTY, NEW MEXICO BOP SCHEMATIC EXHIBIT "4"

COQUINA OIL AND GAS COMPANY PHILLY FEDERAL #2

SECTION 21, T-23S, R-26E EDDY COUNTY, NEW MEXICO

CASING:

CONDUCTOR:

40' of 20'

SURFACE:

350' of 13 3/8"

INTERMEDIATE:

3,000' of 9 5/8"

PRODUCTION:

10,800' of

7"

DEPT	н	MUD WEIGHT	VISCOSITY	WATER LOSS	SOLIDS	COMMENTS
0 to 40	0'	(optional)				Rathole Machine
0 to 3	50'	8.7 to 9.0	35 to 40	No Control	<4	Spud Mud
350 to	3,000'	8.4 to 10.2	26 to 28	No Control	<1	Brine Water
3,000	to 9,500'	8.4 to (10.0)	26 to 28	No Control	<1	Fresh Water/Brine
9,500	to 10,000'	10.0 to 10.2	26 to 28	No Control	<1	Brine
10,000	to 10,800'	10.0 to 10.6	36 to 40	15cc or less	;	PolyPac, Salt Gel, My-Lo-Jel
(10,800	10.6 to 10.8	36 to 40			Possible Weight)

COQUINA OIL CORPORATION PHILLY FEDERAL NO. 2 SEC. 21, T-23-S, R-26-E EDDY COUNTY, NEW MEXICO PROPOSED MUD PROGRAM EXHIBIT "5"

CONDUCTOR: 40' ' ?0" (Optional)

Pre-set Rathole Machine

SURFACE: 350' of 13 3/8"

We suggest a M-I Gel and Lime type drilling fluid having a viscosity in the 33 to 35 sec/qt. range be used to spud surface hole.

This type drilling fluid should be sufficient to drill to 350' and run 13 3/8" casing.

COMMENTS:

- 1. The Gravel Beds in this general area are not usually troublesome. A 35 \pm sec/qt. viscosity should be sufficient to drill surface.
- There is a possibility you may encounter seepage to total loss while drilling surface. Normally, a few sacks of Paper added to the drilling fluid system is sufficient to control seepage.

For complete loss, we suggest adding Cedar Fiber and Cottonseed Hulls to the system.

MOTE: SEE REVERSE SIDE FOR LIABILITY CLAUSE

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This type drilling fluid should be sufficient to drill to 9 500 or hear the top of the Penn.

NOTE:

In the event fill-up occurs, we suggest a 50 to 100 barrel sweep through the hole every 12 to 24 hours.

At 9,500', or near the top of the Penn, (earlier should hole conditions dictate); we suggest displacing the fresh or controlled brine system with a 10.0 lbs/gal. Brine water.

NOTE:

Sweeps with LCM added will be needed to help

control loss zone prior to mud up.

This type drilling fluid should be sufficient to drill to 10,000', or near the top of the Strawn.

At 10,000', or prior to the top of the Strawn, we suggest mudding up with a Salt Gel, PolyPac, and My-Lo-Jel type drilling fluid having the following characteristics:

Weight

10.0 to 10.2 lbs/gal.

Viscosity

36 to 40 sec/qt.

Plastic Viscosity

6 to 10 CPS

Yield Point

7 to 12 lbs/100 ft²

Initial Gel 10 Minute Gel 0 to 2

Water Loss

2 to 5 15.0 cc or less

рН

9.5 to 10.0

DH LCM

3 to 5 lbs/bbl.

NOTE:

We suggest increasing mud weight to 10.4 lbs/gal at 10,200'. Further increases in mud to the 10.6 to 10.8 lbs/gal range may be needed.

This type drilling fluid should be sufficient to drill to 10,800', with the exception of weight an viscosity which may need altering (increased) as hole conditions dictate.

COMMENTS:

- 1. We suggest circulating a portion of the reserve pit, returning to steel pits before mud up depth.
- 2. It is possible (in this area) to drill and DST the Wolfcamp, and Cisco Canyon with Brine water. However, should a water loss control of the drilling fluid be desired prior to running DST, we suggest mudding up with My-Lo-Jel and PolyPac type drilling fluid as stated above.
- 3. There is a possibility the Lower Wolfcamp or Penn Sections will have pressures that could require a drilling fluid weight in excess of 10.5 lbs/gal. to control.

We suggest installing a drilling head, Swaco Choke and

gas separator prior to drilling below the top to the Penn.

