

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-2306

APPLICATION FOR PERMIT TO ~~DRILL DEEPEN~~ FOR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

1979

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

C & K Petroleum, Inc. ✓

O. C. C.
ARTESIA, OFFICE

3. ADDRESS OF OPERATOR

P.O. Drawer 3546, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surfaceAt proposed prod. zone 1707' FSL & 1849' FEL, Sec. 8, T-24-S, R-26-E,
Eddy Co., Tx.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

3-1/2 miles Northwest, Blackriver, New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1707'

16. NO. OF ACRES IN LEASE

1840

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

73'

19. PROPOSED DEPTH

3000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3481.9 Gr.

22. APPROX. DATE WORK WILL START*

Upon Approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 11" | 8-5/8" | 24# | 2000' | 1500 sx - circ. |
| 7-7/8" | 5-1/2" | 14# | 3000' | 450 sx. |

NOTE: Mud program, blow out preventer and location sketch are attached.

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.

24.

SIGNED



TITLE Admin. Supervisor

DATE Sept. 17, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

10-1-79

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-128
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

| | | | | | |
|--|--|-----------------------------|-------------------------|--------------------------------------|----------------------|
| Operator C & K Petroleum Inc. | | | Lease CK Fed | | Well No. 2 |
| Section J | Section 8 | Township 24 South | Range 26 East | County Eddy | |
| Actual Surface Location of Well: 1707 feet from the South line and 1849 feet from the East line | | | | | |
| Ground Elev. 3481.9 | Producing Formation Delaware | Pool Wildcat | | Dedicated Acreage 40 Acres | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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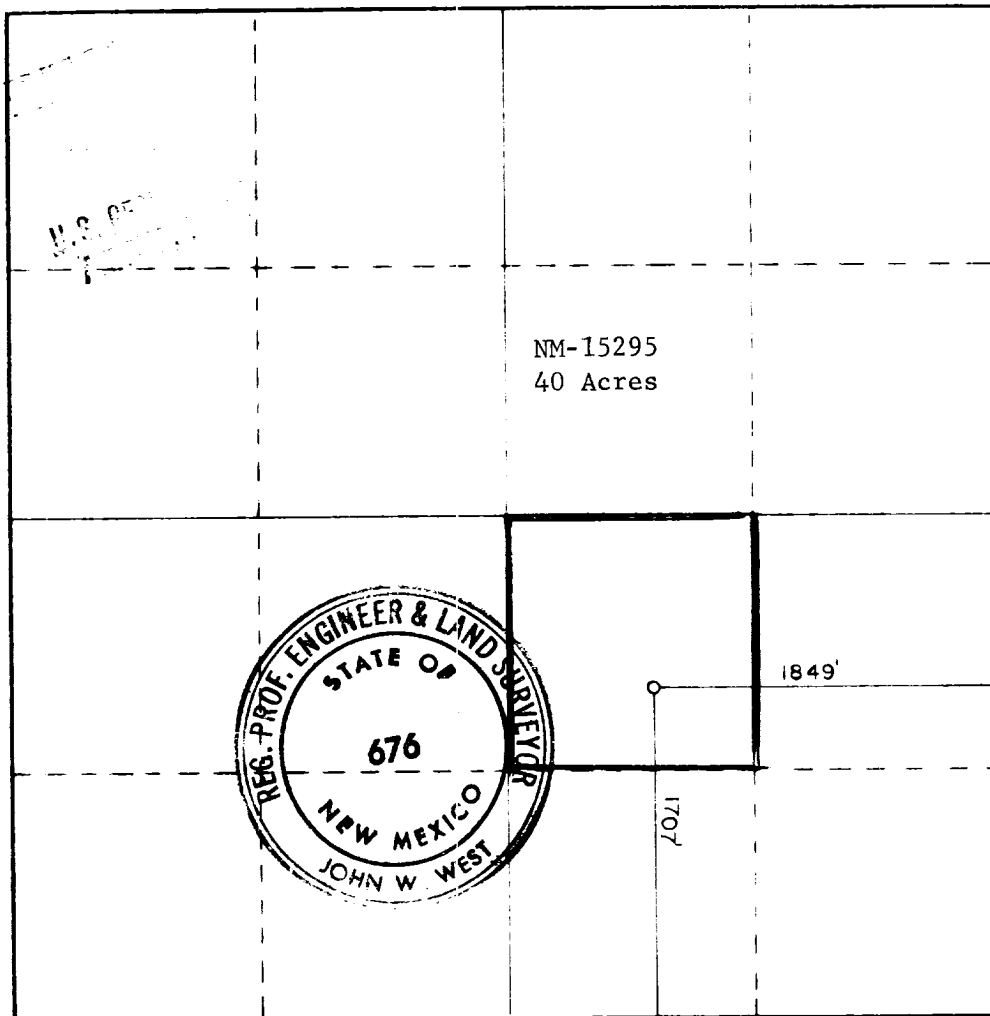
OCT 3 1979

**O. C. C.
ARTESIA, OFFICE**

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____

No allowable will be assigned 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 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Administrative Supervisor

Position
C & K Petroleum, Inc.

Date
September 14, 1979

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
September 4, 1979

Registered Professional Engineer
No. **676** Survey

John W. West

Certificate No. **John W. West 676**
Ronald J. Eidson 3239



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

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O. C. C.
ARTESIA, OFFICE

October 1, 1979

C & K Petroleum, Inc.
P. O. Drawer 3546
Midland, Texas 79702

Gentlemen:

C & K PETROLEUM, INC.
CK Federal No. 2
1707 FSL 1849 FEL Sec. 8 T.24S, R.26E
Eddy County Lease No. NM 15295

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 3,000 feet to test the Delaware 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. 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.
4. 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).
5. Cement behind the 8-5/8" casing must be circulated.
6. Notify Survey in sufficient time to witness the cementing of 8-5/8" casing.
7. 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,

George H. Stewart
Acting District Engineer



C & K Petroleum, Inc.
Well No. 2-CK Federal Lease No. NM-15295
1707 FSL & 1849 FEL, Sec. 8, T-24-S, R-26-E
N.M.P.M., Eddy County, New Mexico

To supplement U.S.G.S. Form 9-331C, "Application to Drill", the following additional information is submitted:

1. See Form 9-331C
2. See Form 9-331C
3. The geologic name of the surface formation is : Tertiary with some Triassic exposed.
4. See Form 9-331C
5. See Form 9-331C
6. The estimated top of important geological marker is the Delaware @ 2691'.
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be are:

| | | |
|------------------|-----|-----------------|
| Water Formations | --- | None |
| Delaware | --- | 2691' Oil & Gas |
8. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 9-331C. All strings of casing will be new.
9. See Form 9-331C for amount of cement. Type of cement as follows:

| | |
|-----------------|--|
| Surface Casing: | Will use 1st stage CaCl cement containing 50-50 Poz Mix, 1/4# Flo Cele per sx. 2% gel, 6% CFR-2 along with 8# salt per sx. 2nd stage will use Class "C" neat cement along with 8# salt per sx. |
| Oil String: | Will use Class "H", 6/10 of 1% Allied "22" with 5# salt per sx. |

10. The pressure control diagram is attached to Form 9-331C. The following additional information of the pressure control equipment is as follows:

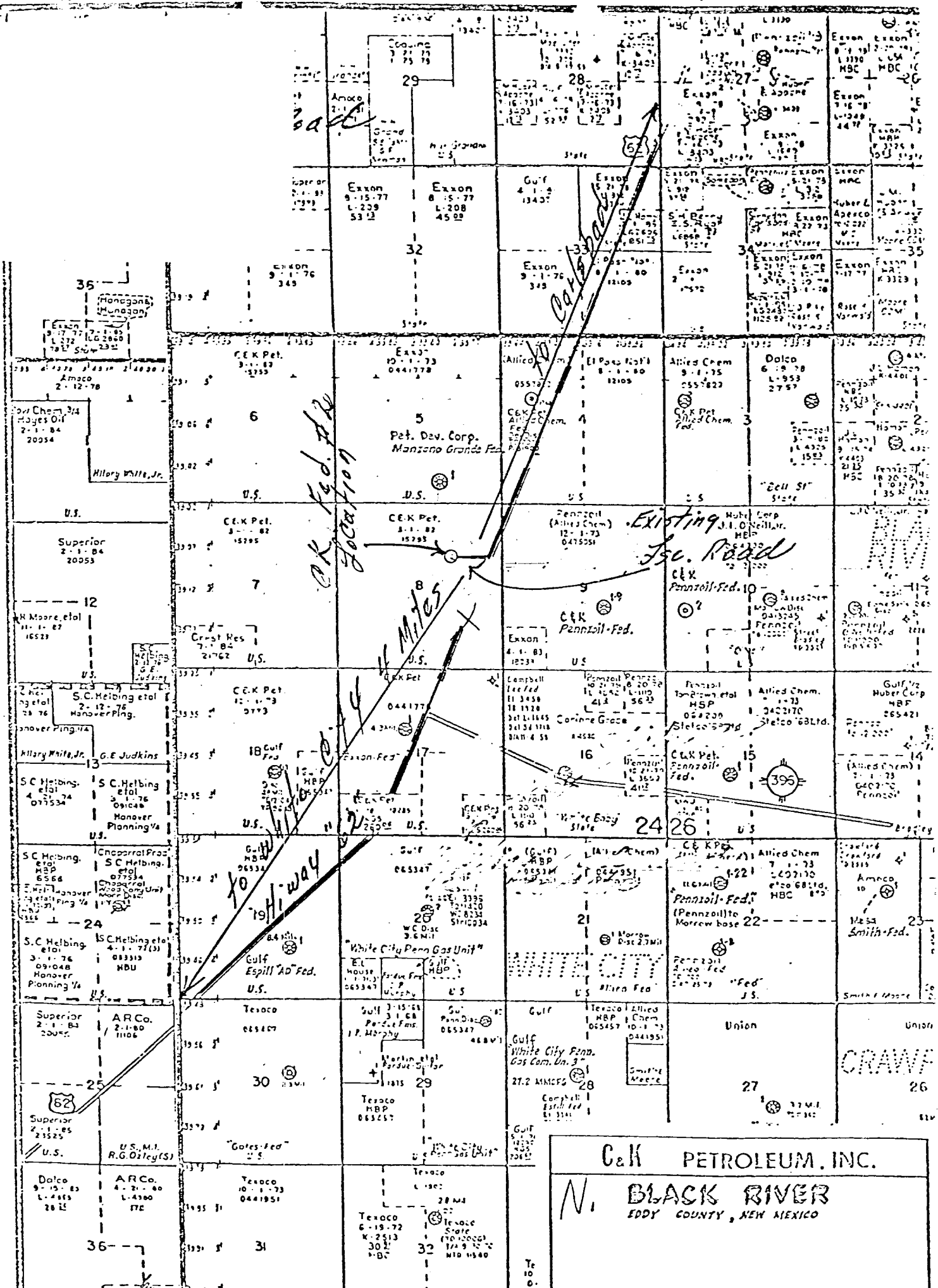
Size: 8" - 900' Series - Db1 Hyd BOP with Blind Rams and Pipe Rams
Pressure Ratings (or API Series) - 3000 WP - 6000 Test
Testing Procedures: Pressure up to 1500# PSIG before drilling out of casing.
Testing Frequency: Upon installation, daily and on all trips.

11. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling, and the quantities and types of mud and weighting material to maintained will be as follows:

| Depth (ft) | Mud Weight (ppg) | Viscosity(sec/qt) | API Filtrate(ml) |
|---|------------------|-------------------|------------------|
| 0' - 2000' | 8.6-9.2 | 34-40 | NC |
| Spud the well with drilling gel and Lime for sufficient viscosity to clean the hole and set 8-5/8" casing. Mix DMI Paper to control seepage. In case of loss of circulation, mix LCM. | | | |
| 2000'-2800 | 9.7-10.0 | 28-29 | NC |
| Drill out with brine water, circulating the reserve pit. Mix Jet Jel at the flow line as needed for settling solids. Mix DMI Paper for seepage control. | | | |

If no hole problems have occurred at total depth, sweep the hole before logging and running pipe. If hole problems are experienced, mud up with a Salt Gel/Starch system.

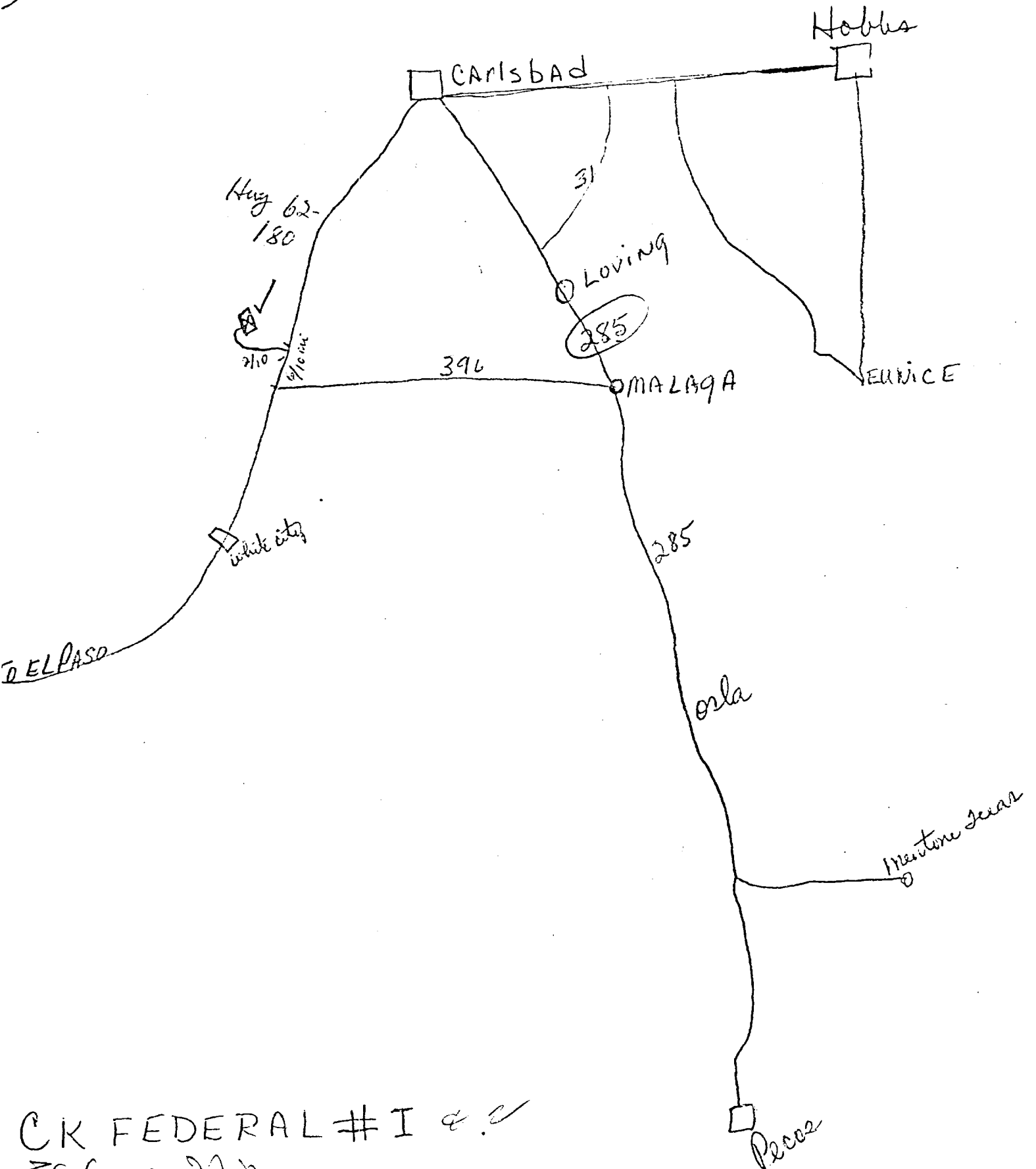
12. The auxiliary equipment to be used: None necessary
13. We do not plan any DST or Coring; Will run GR Sonic and Resistivity Logs.
14. No abnormal pressures anticipated.
15. The starting date will be upon approval of our application to drill. The completion date will be approximately 7 days from spud date.



C&K PETROLEUM, INC.
N. BLACK RIVER
EDDY COUNTY, NEW MEXICO

To Zile

North



CK FEDERAL # I & 2
Eddy Co NM

DMI

Drilling Fluid Recommendations

Date September 11, 1979

Company C & K Petroleum, Inc. Location Sec. 8, T-24-S, R-26-E
Well Name Deleware Prospect County Eddy State New Mexico

CASING PROGRAM

8-5/8" @ 2000'

5-1/2" @ ~~2000'~~ ^{3000'}

RECOMMENDED DRILLING FLUID PROGRAM

| Depth ft | Mud Weight ppg | Viscosity sec/qt | API Filtrate ml | | | |
|---|-------------------|---------------------|--------------------|---|--|--|
| 0' - 2000' | 8.6-9.2 | 34-40 | NC | Spud the well with Drilling Gel and Lime for sufficient viscosity to clean the hole and set 8-5/8" casing. Mix DMI Paper to control seepage. In case of loss of circulation, mix LCM. | | |
| 2000' - 2800' ^{3000'} | 9.7-10.0 | 28-29 | NC | Drill out with brine water, circulating the reserve pit. Mix Jet Jel at the flow line as needed for settling solids. Mix DMI Paper for seepage control. If no hole problems have occurred at total depth, sweep the hole before logging and running pipe. If hole problems are experienced, mud up with a Salt Gel/Starch system. | | |

DMI

OPERATOR C & K Petroleum, Inc.
WELL NAME & NO. Delaware Prospect
COUNTY Eddy STATE New Mexico

Drilling Mud Recommendations

0' - 2000'

Spud this well in the normal manner, mixing Drilling Gel and Lime for sufficient viscosity to clean the hole and to set 8-5/8" casing. Mix DMI Paper for seepage control. There is a possibility of severe loss of circulation during this interval. If this occurs, we suggest spotting up to 2 pills of LCM. If this does not regain circulation, dry drill to pipe depth.

2000' - ^{3600'}~~2800'~~

Drill out with brine water. Circulate the reserve pit. Mix Jet Jel at the flow line as needed to aid in settling solids. Add DMI Paper as needed to control seepage. If no hole problems are experienced during this interval, sweep the hole before logging or running casing. If hole problems develop, mud up with a Salt Gel/Starch system.

Weight - 9.7 to 10.2
Viscosity - 32 to 38
Water Loss - 15 cc

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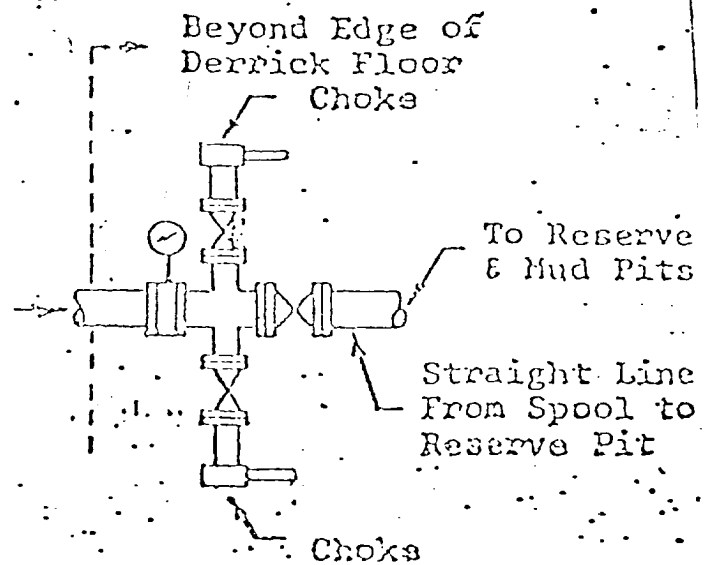
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

PIPE RAM

BLIND RAM

GROUND LEVEL

Size: 8" - 900 Series
Dbl. Hyd. BOP
With Blind Rams
and Pipe Rams



SURFACE USE PLAN

CK Federal #2
Lease #NM-15295

C & K Petroleum, Inc.
1707' FSL & 1849' FEL
Sec. 8, T-24-S, R-26-E,
Eddy County, New Mexico
Located 4 miles Northeast of
White City, New Mexico

1. EXISTING ROADS

Refer to Exhibit "A" which shows all roads in the general vicinity of the well site. From White City go 4 miles north on U.S. Highway #62. Exit Highway #62 west onto an existing 650' X 12' lease road to the proposed well location.

2. PLANNED ROADS

None - Will use existing roads.

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**U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

3. LOCATION OF EXISTING WELLS

Morrow Production is located 73' north and located on this same drilling pad

4. TANK BATTERIES, PRODUCTION FACILITIES AND LEASE PIPELINES

If production is encountered, tank battery and production facilities will be located on the east end of the existing mat and fenced.

5. WATER SUPPLY

Water will be trucked from the nearest commercial source.

6. CONSTRUCTION MATERIAL

None will be needed. Will utilize existing roads and pad.

7. WASTE DISPOSAL

Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away. See Exhibit "C" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system. No waste water pits will be constructed without prior approval from the U.S.G.S.

8. ANCILLARY FACILITIES

No camps, airstrips, etc., will be constructed.

9. WELLSITE LAYOUT

- a. Mat Size - will use existing 280' X 196' mat.
- b. Cut and Fill - None
- c. Surface -
- d. Reserve Pit - 196' X 132' pit, lined with plastic, joining mat to the West. See Exhibit "C".
- e. Drill Site Layout - See Exhibit "C" for complete layout of reserve pits, burn pits, and mud pits. Rig will be erected with V-door to the North Northeast.

10. RESTORATION OF SURFACE

If well is productive, pits will be backfilled and leveled as soon as practical. All plastic lining and other waste material will be removed. At the time of final abandonment other U.S.G.S. & BLM restoration stipulations will be complied with.

11. OTHER INFORMATION - SETTING AND ENVIRONMENT

Terrain - Semi-flat with rock outcropping.

Soil - Firm sand with rock immediately below surface.

Vegetation - Catclaw, greasewood and light mesquite.

Distance to Nearest:

Pond and Stream - There are no surface waters within 1/2 mile.

Water Wells - No water wells within 1/2 mile.

Residences and Buildings - None within 1/2 mile.

Arroyos, Canyons, Hills, Etc. - None. There is a draw 200' north of location that runs east and west. The draw is approximately 3' deep and 25' to 30' wide.

OTHER INFORMATION - SURFACE USE

Grazing and hunting.

OTHER INFORMATION - EFFECT ON ENVIRONMENT

Drill site is in semi-arid desert country, in a low environmental area. The total effect of drilling and producing this and other wells in the area would be minimal.

OTHER INFORMATION - SURFACE OWNERSHIP

The surface is owned by the Federal Government.

OTHER INFORMATION - OPEN PITS

All unattended pits containing mud or other liquids will be fenced.

OTHER INFORMATION - WELL SIGN

A sign identifying and locating the well will be maintained at the drill site commencing with the spudding of the well.

12. OPERATOR'S REPRESENTATIVES

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:


G. C. Thompson, Manager of Production
600 C & K Petroleum Bldg.
P. O. Drawer 3546
Midland, Texas 79702
Office Phone: 915/683-3311
Home Phone: 915/683-3893

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 as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by C & K Petroleum, Inc. and its contractors and sub-contractors will conform to this plan.

DATE

9-17-79


D. E. Cooper, Authorized Agent
Administrative Supervisor