

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-21748

5. LEASE DESIGNATION AND SERIAL NO.

NM 02811 03187

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Cain

9. WELL NO.

1-A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesa Verde

11. SEC., T., R., M., OR BLE.
AND SURVEY OR AREA

Sec. 20-31N-10W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Koch Exploration Company

3. ADDRESS OF OPERATOR

P.O. Box 2256, Wichita, Kansas 67201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

SE NW NW Sec. 20-31N-10W

1000 MAR 25 1975 FWL

At proposed prod. zone

OIL CON. COM.

DIST. 3

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

Approx. 15 miles NE of Bloomfield, N.M.

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

323.22

17. NO. OF ACRES ASSIGNED

TO THIS WELL

323.22 261.61

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

2630'

19. PROPOSED DEPTH

5300'

20. ROTARY OR CABLE TOOLS

Rotary

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

6011' GR

22. APPROX. DATE WORK WILL START*

April 15, 1975

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4	10-3/4	40.5	200	100
8-3/4	7	26	3500	200
6-1/4	4-1/2	10.5	5300	150

1. Set new 10-3/4" 40.5# K-55 ST & C at 200'. Press. test csg to 1000 PSI. Cement with enough cement to circulate it to the surface. WOC 24 hrs.
2. Drill w/water & native mud to approx. 1800'. Mud up w/Gel-Benex Type mud & drill thru the Pictured Cliffs formation (3300-3500'). Set 7" 20# N-80 LT & C (New or tested to 5000#) at 3500'. Cement csg w/enough cement to cover the Pictured Cliffs formation.
3. 8" LWP Shaeffer double pipe & blind rams BOP's will be used. Check BOP's each tour & blind rams each trip.
4. Drill 6" hole to TD. Set & cement 4 1/2" 10.5# H-40 new csg to TD w/BOT liner hanger. Cement w/enough cement to circulate out top of liner. WOC 24 hrs.
5. Well head equipment will consist 2000# WP Brewster equipment for 10-3/4" surface & 7" intermediate csg.
6. Mud program will be as follows:

0-200'

200-1800'

1800-3500'

3500-TD

Gel-lime slurry

Water & Benex

Gel-Spersene Mud

Drill w/gas.

(Over)

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

Orwall L. Schmitt

TITLE Operations Manager

DATE March 19, 1975

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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

Form O-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

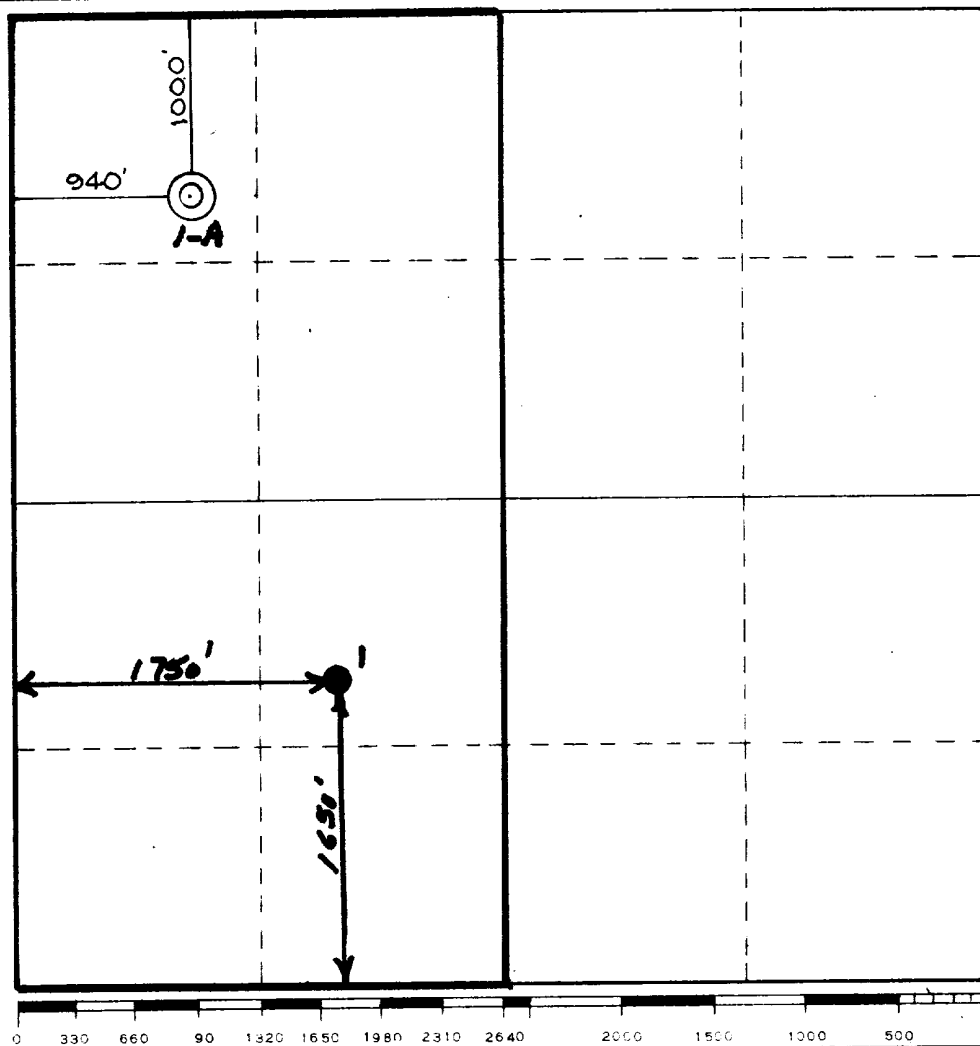
Operator KOCH EXPLORATION COMPANY			Lease CAIN		Well No. 1A
Unit Letter D	Section 20	Township 31N	Range 10W	County SAN JUAN	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1000 feet from the NORTH line and 940 feet from the WEST line </div>					
Ground Level Elev. 6011.0'	Producing Formation M ✓	Pool B/ann	Dedicated Acreage: 323.22 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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?

☐ 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 _____

Position _____

Company _____

Date _____

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: _____

Registered Professional Engineer and Land Surveyor

James P. Leese
James P. Leese

Certificate No. _____

1463

1975

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.

7. Anticipated BHP at TD max of 2000#. No abnormal pressures anticipated.
8. Auxillary & BOP equipment on rig as follows:
 - A. Double ram BOP
 - B. Kelly cocks (If required)
 - C. Rotating drilling head
 - D. Kill valve on rig floor (If required).
9. Complete well by swabbing csg. dry. Perf Nesa Verde w/2 HPF & frac w/gelled KCl water & sand.

Development Plan for Surface Use - Cain No. 1-A

1. Existing roads: (Exhibit "A")

Equipment and personnel will utilize U.S. Highway 550 approx. 1 mile west of the location. The existing exit from the highway will be used.

2. Planned Access Roads: (Exhibit "A")

Location falls near existing lease road. Very little, if any new road will have to be built.

3. Location of existing wells:

The proposed well is 2630' north of the Cain No. 1.

4. Lateral roads to well location: (Exhibit "A")

See attached map - Exhibit "A"

5. Location of tank battery and flow line.

A new tank battery consisting of a 3 phase package unit & 1-300 bbl tank will be set right on the well location.

6. Location and type of water supply:

The source water to be used in the drilling operation will be from the irrigation ditch on U.S. Highway 550 approx. 1 mile west of the proposed location. Water will be hauled by trucks.

7. Waste disposal:

The drilling contractor will furnish a metal toilet. Cuttings, metal, wire, etc. that will not burn will either be buried or hauled off the location.

8. Location of camps:

No camps are anticipated.

9. Location of airstrips:

None required.

10. Location layout: (Exhibit "B")

Will spot the small mobile rig in the most convenient manner on a compacted drilling pad. No particular terrain or drainage problem anticipated.

11. Plans for restoration of the surface:

A minimum amount of the area will be disturbed to build the location. Upon completion of drilling, the area will be leveled and the pits either filled or fenced as soon as the rig is moved. All areas not needed in producing operations will be seeded with a grass mixture of five pounds crested wheat grass, five pounds intermediate wheat grass and three pounds nomad alfalfa to each acre. The planting will be done in the fall or early winter, when conditions are favorable.

12. General description of the topography, vegetation and other aspects of the area:

Area is rocky, but relatively flat with large amount of sage brush, but few if any pinion trees.

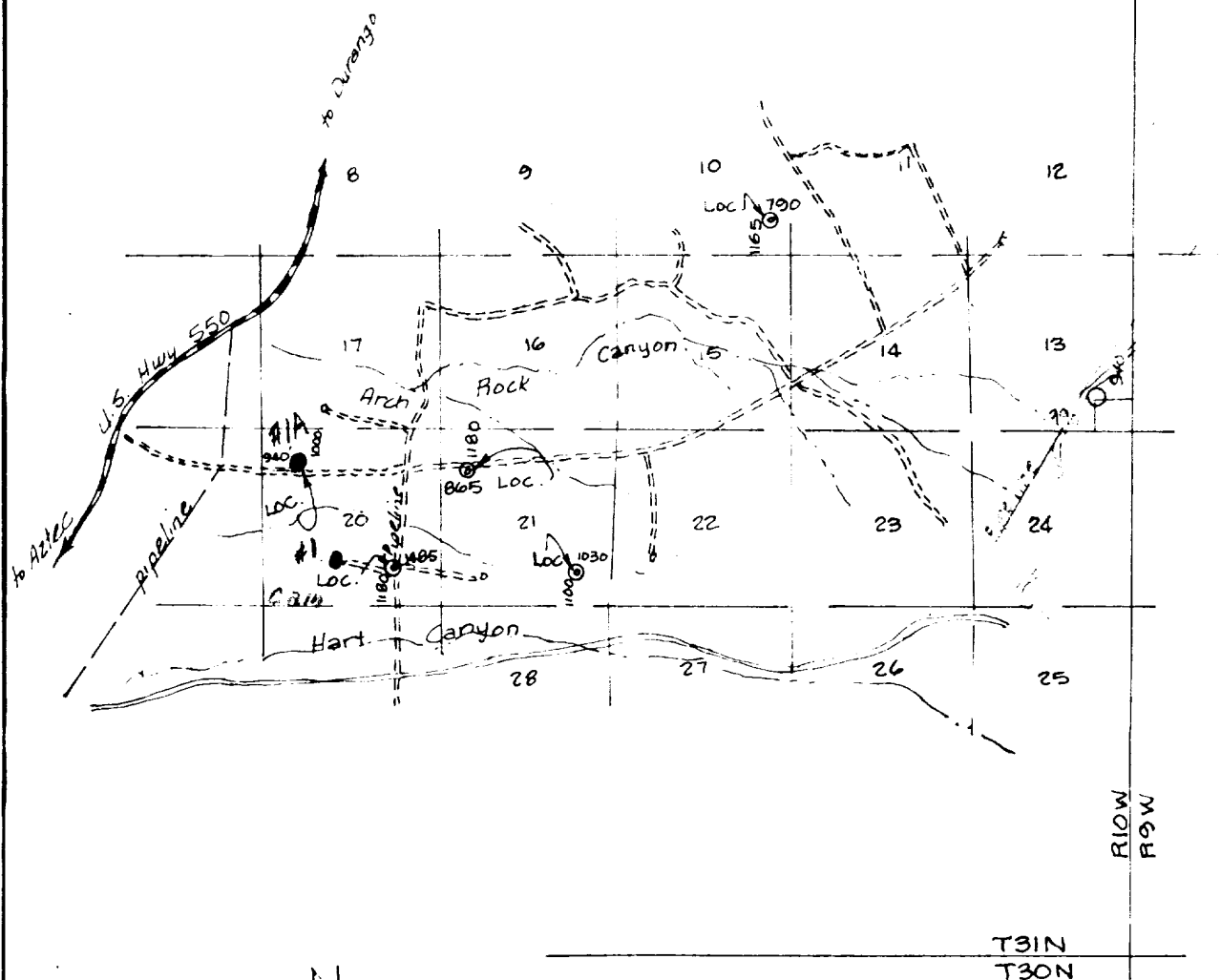


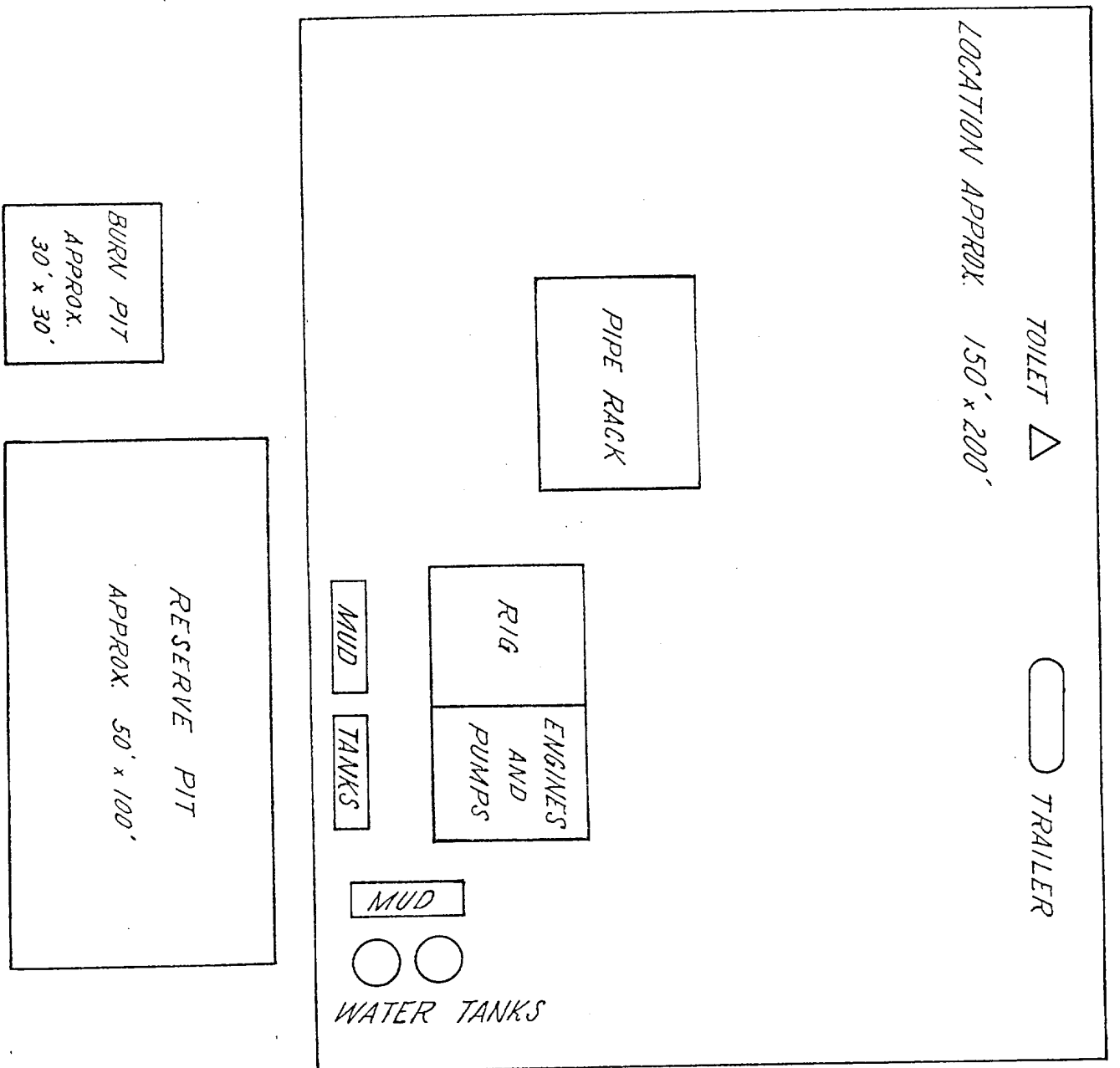
Exhibit A

VICINITY MAP
FOR

KOCH EXPLORATION CO.

Wells located NW 1/4 NW 1/4 Sec. 10,
in the SW 1/4 SE 1/4 Sec. 20, NW 1/4 NW 1/4 Sec. 21,
SE 1/4 SE 1/4 Sec. 13, SE 1/4 SE 1/4 Sec. 10,
SE 1/4 SE 1/4 Sec. 21, T31N, R10W, N.M.P.M.,
San Juan Co., New Mex. Scale: 1"=1 mile

San Juan Engineering Co.
Farmington, New Mexico.



N
1

Exhibit 'B'
Cain # 1-A
SE NW NW Sec. 20-31N-10W
San Juan Co., New Mexico