

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-24193

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐		5. LEASE DESIGNATION AND SERIAL NO. SF 080776-A
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Koch Industries, Inc.		7. UNIT AGREEMENT NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 2256, Wichita, Kansas 67201		8. FARM OR LEASE NAME William Mansfield
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1460' FNL & 1000' FWL At proposed prod. zone 1850'		9. WELL NO. #1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 11 miles NE of Bloomfield, New Mexico		10. FIELD AND POOL, OR WILDCAT Basin Dakota
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1000'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25-30N-10W
16. NO. OF ACRES IN LEASE 320 315.68		12. COUNTY OR PARISH San Juan
17. NO. OF ACRES ASSIGNED TO THIS WELL N/2 320 315.68		13. STATE N. Mexico
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 300'		19. PROPOSED DEPTH 7360'
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* January 30, 1980
22. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6127'		
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'	250 sx. CIRCULATE
8-3/4"	7"	20#	3800	500 sx. CIRCULATE
6-1/4"	4-1/2"	10.5#	7360'	275 sx.

1. Set 18" conductor pipe at 30' and cement to surface.
2. Set new 10-3/4" 40.5# K-55 ST&C casing at 200' pressure test to 1000# and cement with enough cement to circulate it to surface. Wait on cement 24 hours.
3. Drill with native mud and water to approx. 1800'. Mud up with Gel-Benex type mud and drill thru the Picture Cliff formation. Set 7" casing 20# K-55 LT&C casing at 3800'. Cement with enough cement to cover the Ojo Alamo and Picture Cliff formation. Wait on cement 12 hours. Pressure test casing and blow out preventor to 3,000 PSI before drilling out.
4. A double pipe and blind rams B.O.P. will be used. B.O.P. will be checked each tower and blinds ran each trip.
5. Drill 6-1/4" hole with gas to total depth. Set and cement 4-1/2" K-55 10.5# new casing from total depth to surface. Enough cement will be used to cover the Pecos and Mesa Verde formations.
6. Wellhead equipment will consist of 3,000# working pressure. *gas not dedicated*

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 depth. Give blowout preventer program, if any.

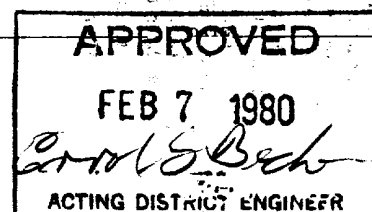
24. SIGNED Vernon J. Lowe TITLE Assistant Operations Manager DATE Jan. 10, 1980
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

ok Emil
write NWU

NMOC



APPROVED

1987 7 8 11

ACTING DISTRICT ENGINEER

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 bottom hole pressure at total depth maximum 2500#, no abnormal pressures anticipated.

8. Aux. and B.O.P. equipment on-rig as follows:

- A. Double Ram Blow-out preventor
- B. Kelly cocks
- C. Rotating drilling head
- D. Kill valve on rig floor

X

X

9. Complete well in the Dakota formation by perforating and frac with gelled KCl water and sand.

EXHIBITS ATTACHED

- A. Location and elevation plat
- B. Ten point compliance program
- C. Blow-out preventor Diagram
- D. Multi-point requirement for surface use
- E. Access road map into location.
- F. Proposed access roads and radius map of well in area.
- G. Drill pad layout and contours, cut-fill sections.
- H. Drill rig and production facilities lay out.

U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-396

All distances must be from the outer boundaries of the Section

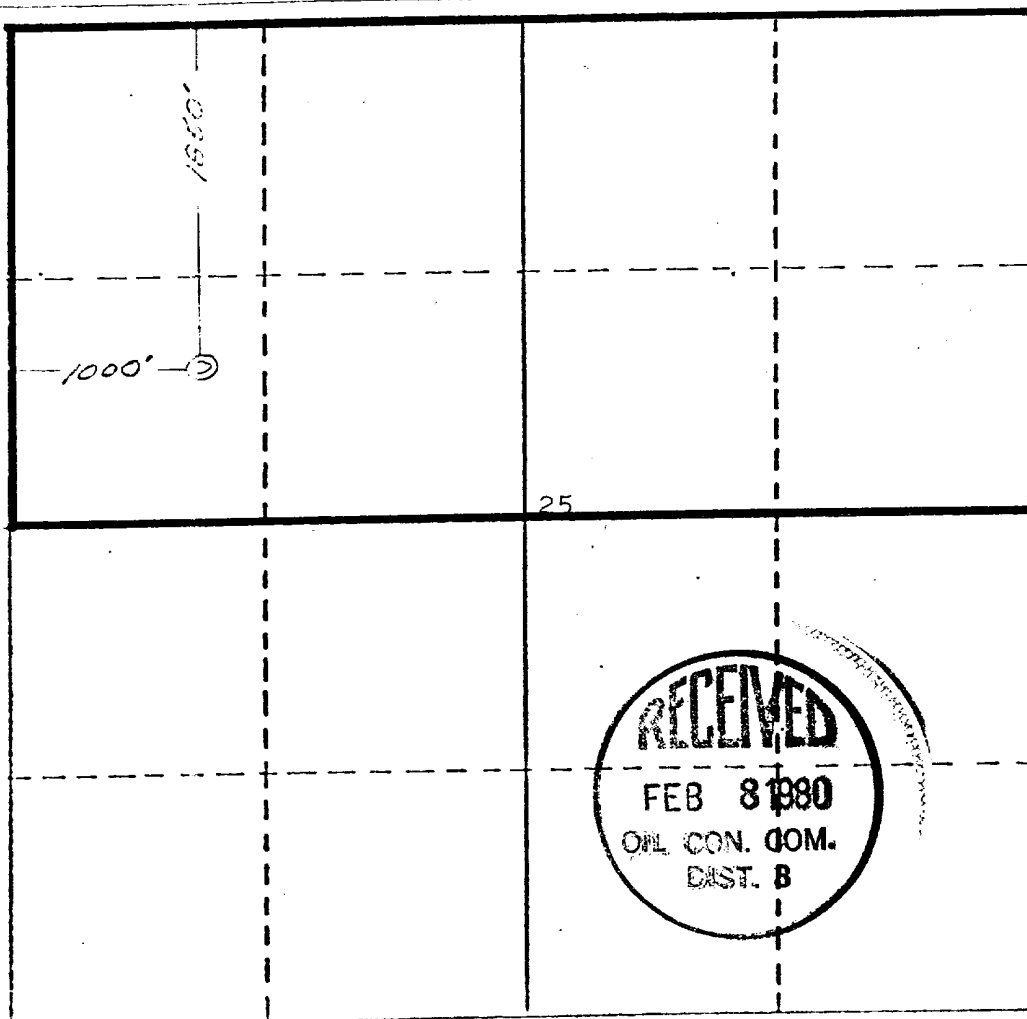
Operator KOCH INDUSTRIES, INC.		Lease WILLIAMS MANSFIELD		Well No. 1
Well Letter E	Section 25	Township 30 NORTH	Range 10 WEST	County SAN JUAN
Actual Section Location of Well: 1850 feet from the NORTH line and 1000 feet from the WEST line				
Ground Level Elev. 6127	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: N 315.68 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?

☐ 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 Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Vernon J. Lowe

Position
Assistant Operations Manager

Company
**Koch Exploration Co.,
Div. of Koch Industries, Inc.**

Date
January 10, 1980

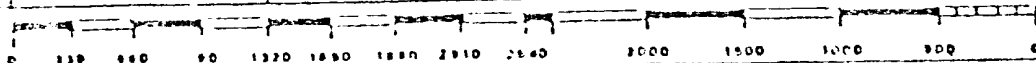
I hereby certify that the information shown on this plat was plotted from the notes of actual surveys **NO.** by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.



Date Surveyed
January 4, 1980

Registered Professional Engineer
and Land Surveyor
James P. Lease

Certificate No.
1463



Koch Industries, Inc.
Williams Mansfield #1
NW $\frac{1}{4}$ Sec. 25, T30N, R10W,
N.M.P.M., San Juan Co., N.M.

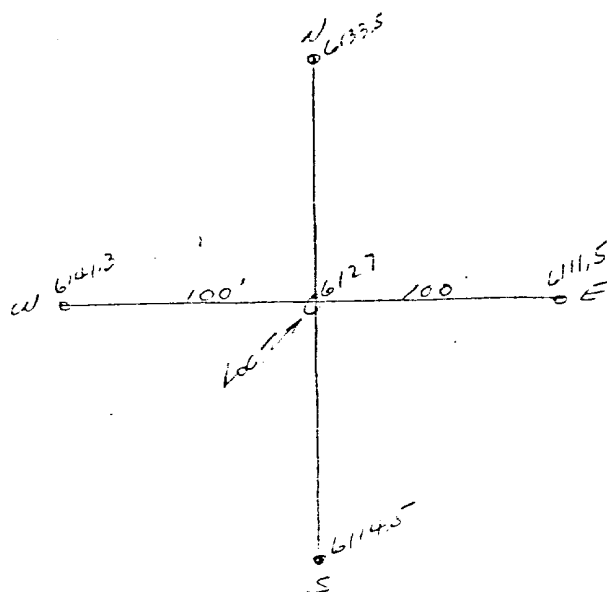


EXHIBIT "B"

WILLIAM MANSFIELD #1

San Juan County, New Mexico

10-POINT SUPPLEMENTAL PLAN OF OPERATIONS

1. Surface formation:

Nacimiento

2. Tops of Geologic Markers:

Ojo Alamo	1693'
Pictured Cliffs	2685'
Lewis Shale	2803'
Mesa Verde	4333'
Greenhorn	7023'
Dakota	7073'

3. Water, Oil or Gas Formations:

Dakota	7073'	(- 946')	Gas
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4. Proposed Casing Program:

Surface: Set new 10-3/4" 40.5# K-55 ST&C casing at 200'.

Production: Set 7" casing 20# K-55 LT&C at 3800'. Set and cement 4-1/2" K-55 10.5# new casing from total depth to surface.

5. Pressure Control Equipment:

10" 900 Ser. or 3,000 PSI test double gate hydraulic BOP with 4" pipe rams and 10" 900 series Hydrill above 10' series casinghead and cross spools with flanged outlets. See attached drawings of choke lines, kill lines and choke manifold. We will W.O.C. 12 hours, nipple up BOP assembly and test to 2,000 PSI. (Hydrill to 1,000 PSI) and drill surface casing shoe after 24 hours.

6. Type of Circulating Medium:

We plan to use fresh water base mud and solids control with minor oil added for weight control. Barite will be maintained on location at all times for weight material with additional stock available from the mud service company. Adequate stock of lost circulation material will also be maintained on location.

7. Auxiliary Equipment:

Kelly cock, bit float for fast hole drilling, full opening stabbing valve to be on the floor.

8. Testing, Logging, Coring, and Stimulation Program:

Drillstem Tests

We plan to drillstem test all Hydrocarbon shows, primarily Dakota.

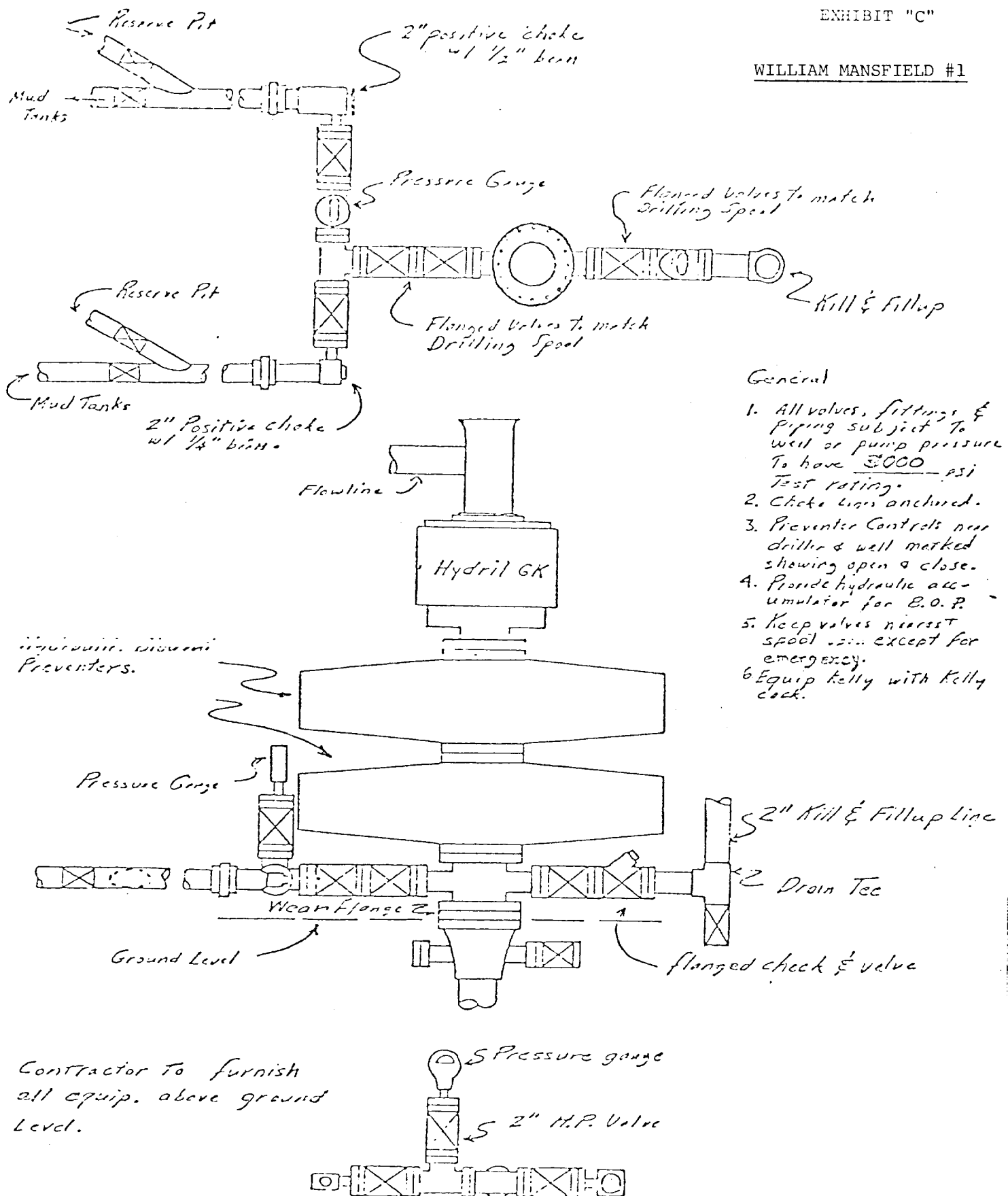
The Logging Program

We will log with Induction Electrical survey and Gamma Ray Density Neutron with Caliper from base of 7" to total depth.

Stimulation

Complete well in the Dakota formation by perforating and frac with gelled Kcl water and sand.

9. The anticipated starting date is January 30, 1980 with drilling operations projected through February 13, 1980. Completion operations should be completed by February 18, 1980.



General

1. All valves, fittings, & piping subject to well or pump pressure to have 5000 psi test rating.
2. Choke lines anchored.
3. Preventer Controls near driller & well marked showing open & close.
4. Provide hydraulic accumulator for B.O.P.
5. Keep valves nearest spool well except for emergency.
6. Equip kelly with Kelly cock.

HMF

EXHIBIT "D"

WILLIAM MANSFIELD #1

KOCH EXPLORATION COMPANY

Multi-Point Requirement for Surface Use

1) Existing Roads:

The enclosed Topo map of San Juan County, New Mexico shows the access roads to the Mansfield #1 location and the immediate area.

2) Planned Access Roads:

There are no planned access roads. The existing roads will be used at an El Paso Natural Gas well site located in the same area as Koch Industries, Inc. Mansfield #1.

3) Location of Existing Wells:

The enclosed map of immediate area of our proposed drill site.

4) Location of Existing and/or Proposed Facilities:

No existing facilities are in Section . Plans are included in the well site layout for proposed treater and production facilities. New or rebuilt materials and facilities are planned with overhead flagging and fencing of the location for wild life and live stock protection. Following drilling operations all areas not necessary for production will be returned to farming or ranching. Recontoured, top soil redistributed.

5) Location and Type of Water Supply:

Fresh water will be hauled by truck from the general area from private source. Salt water will be hauled from the general area by truck.

6) Source of Construction Materials:

Either gravel or Scoria is proposed for surfacing depending on supply from private source.

7) Methods for Handling Waste Disposal:

- a) Cuttings: Cutting will be contained in the reserve pit and buried upon completion operations.
- b) Drilling Fluids: Excess brine water will be hauled to future drilling location with soiled materials buried in the reserve pits.
- c) Produced Fluids: Oil will be produced into test tank and water will be placed in the reserve pit.
- d) Sewage: A pit toilet will be on location.
- e) Garbage: A trash pit covered with small mesh wire will contain garbage for burning and eventually buried.
- f) Location Clean Up: Following completion of drilling operations, the location will be fenced and the well site cleaned up for completion operations or total rehabilitation in the event of a dry hole.

8) Ancillary Facilities:

No camps or air strips are planned at this time.

9) Well-Site Layout:

See attached plat of the well site with rig orientation and related equipment. The pits are not to be lined unless a permeable layer is present.

10) Plans for Restoration of the Surface:

Upon completion of drilling and producing operations, road surfacing materials will be removed, liquids hauled to other drilling locations, waste materials buried, and the site will be recontoured to nearly the original configuration. The topsoil will be redistributed and the site will be returned to farming. The access road will be obliterated, ripped and returned to farming. All restoration will commence as soon as physically possible following drilling and production operations, weather permitting, and completed as soon as possible. See attached Rehabilitation Plan.

11) Other Information:

The location is on pasture land (native grass) with no trees or other type vegetation. Domestic live stock are run in the area as well as wildlife of deer, coyote, and partridge.

12) Lease and Operators Representatives : For Drilling Operations

Koch Industries, Inc., 3605 N. Dustin St., Farmington, New Mexico 87401

Delvin H. Echard, District Superintendent, Resident Phone: (505) 325-1549
Mobil Phone: (505) 325-0598

For Producing and Subsequent Operations

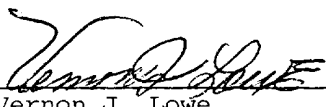
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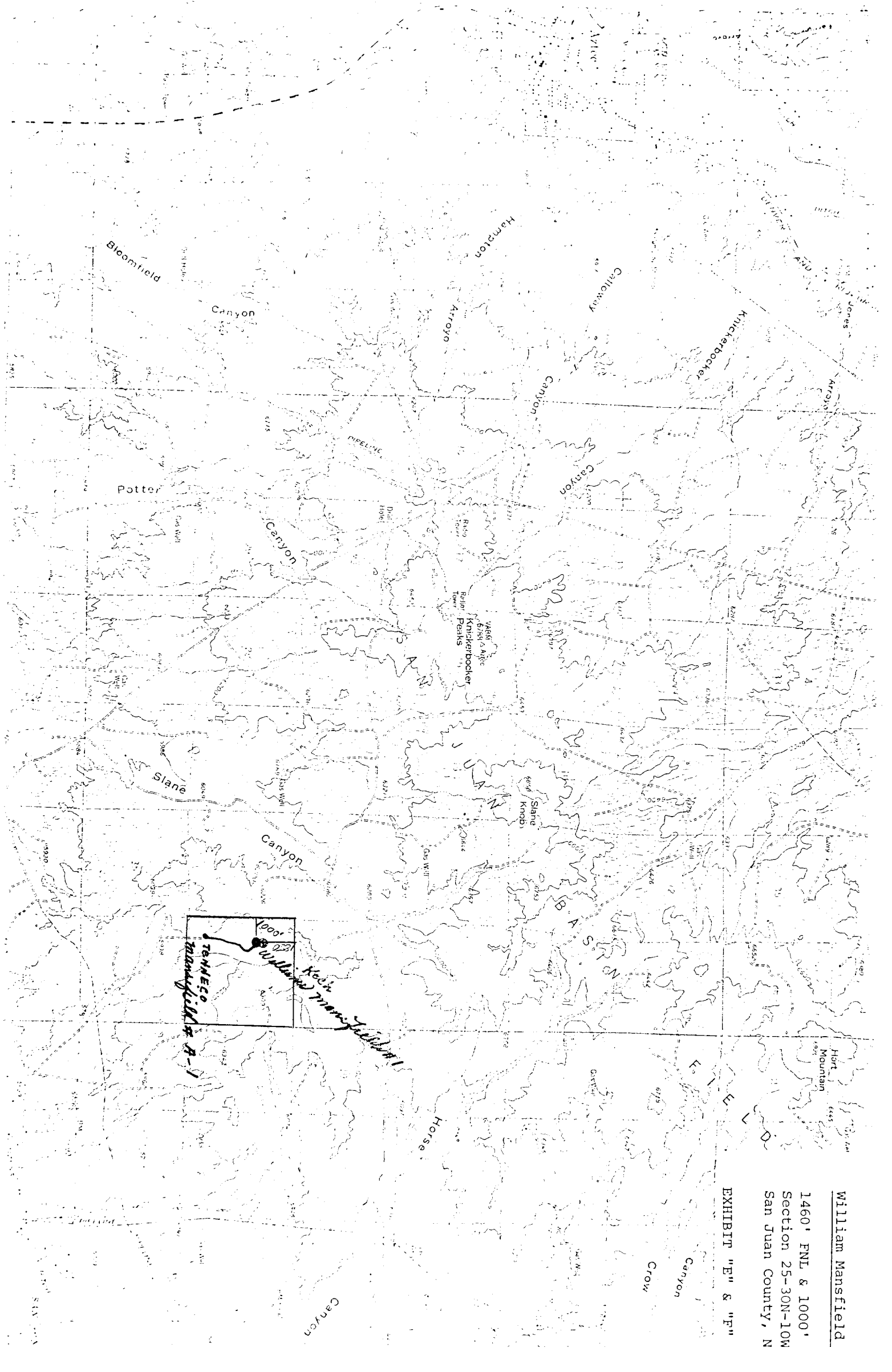
Larry Tholkes, Sub-Foreman Resident Phone: (505) 334-3547

- 13) 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 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 (to be determined) and its contractor and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

January 10, 1980
Date



Vernon J. Lowe,
Assistant Operations Manager



William Mansfield
1460' FNL & 1000'
Section 25-30N-10W
San Juan County, N

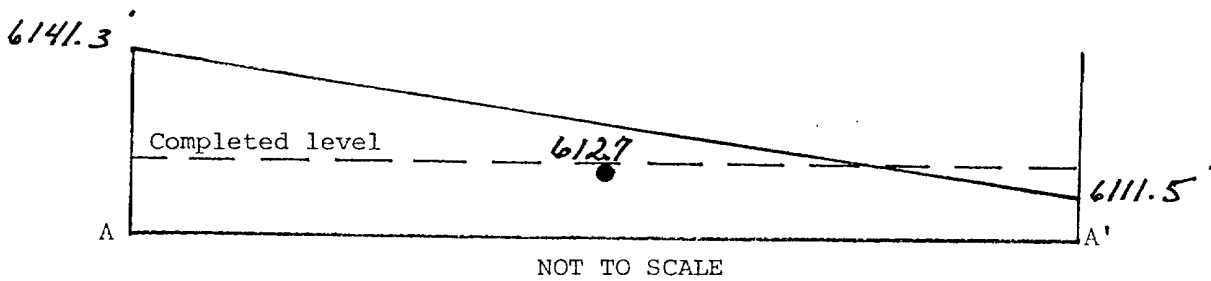
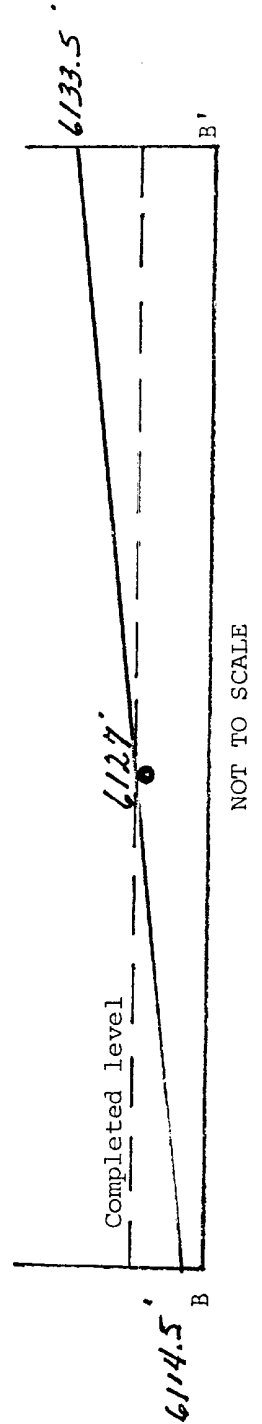
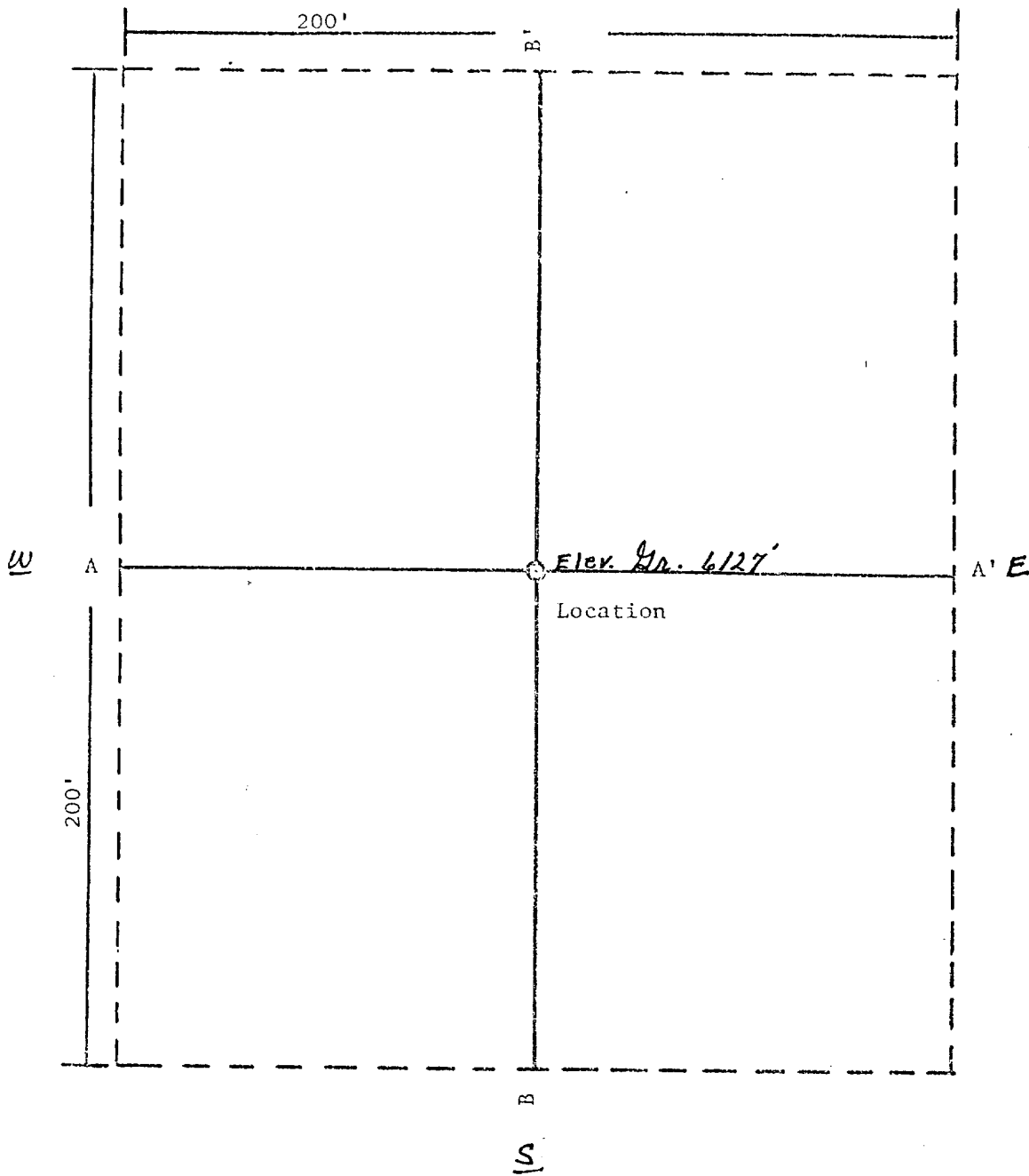
EXHIBIT "E" & "F"

N

EXHIBIT "G"

Drill Pad Layout

WILLIAM MANSFIELD #1



NOT TO SCALE

WILLIAM MANSFIELD #1

KOCH EXPLORATION COMPANY
Battery Layout

Scale: 1" = 30'

Overall Location Size 250' X 300'

