Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-23395

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
KIMBARK OPERATING CO.

3. ADDRESS OF OPERATOR
1860 LINCOLN STREET, SUITE 808, DENVER, CO 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
880' FNL & 1190' FWL SECTION 27
D
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
SF 078146A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
HORTON

9. WELL NO.
#11

10. FIELD AND POOL, OR WILDCAT
BLANCO-PICTURED CLIF FS ext

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 27, T32N, R12W

12. COUNTY OR PARISH
SAN JUAN

13. STATE
NEW MEXICO

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
8.3 MILES NE OF FARMINGTON, NEW MEXICO

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
880

16. NO. OF ACRES IN LEASE
320

17. NO. OF ACRES ASSIGNED TO THIS WELL
160 ✓

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

19. PROPOSED DEPTH
2800'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6123'

22. APPROX. DATE WORK WILL START*
3/15/79

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	200'	150 sxs
6 1/4"	4 1/2"	10.5#	2800'	120 sxs

gas is dedicated

UNITED STATES GEOLOGICAL SURVEY FEB 26 1979 OIL CON. COM. DIST. 3

RECEIVED FEB 23 1979 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.

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 Clarence H. Brown TITLE Agent DATE 2/19/79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

Operator	Lease	Well No.
KIMBARK OPERATING COMPANY	HORTON	11

Unit Letter	Section	Township	Range	County
D	27	32 NORTH	12 WEST	SAN JUAN

Actual Footage Location of Well:
880 feet from the NORTH line and 1190 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6123	Pictured Cliffs	Blanco	160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

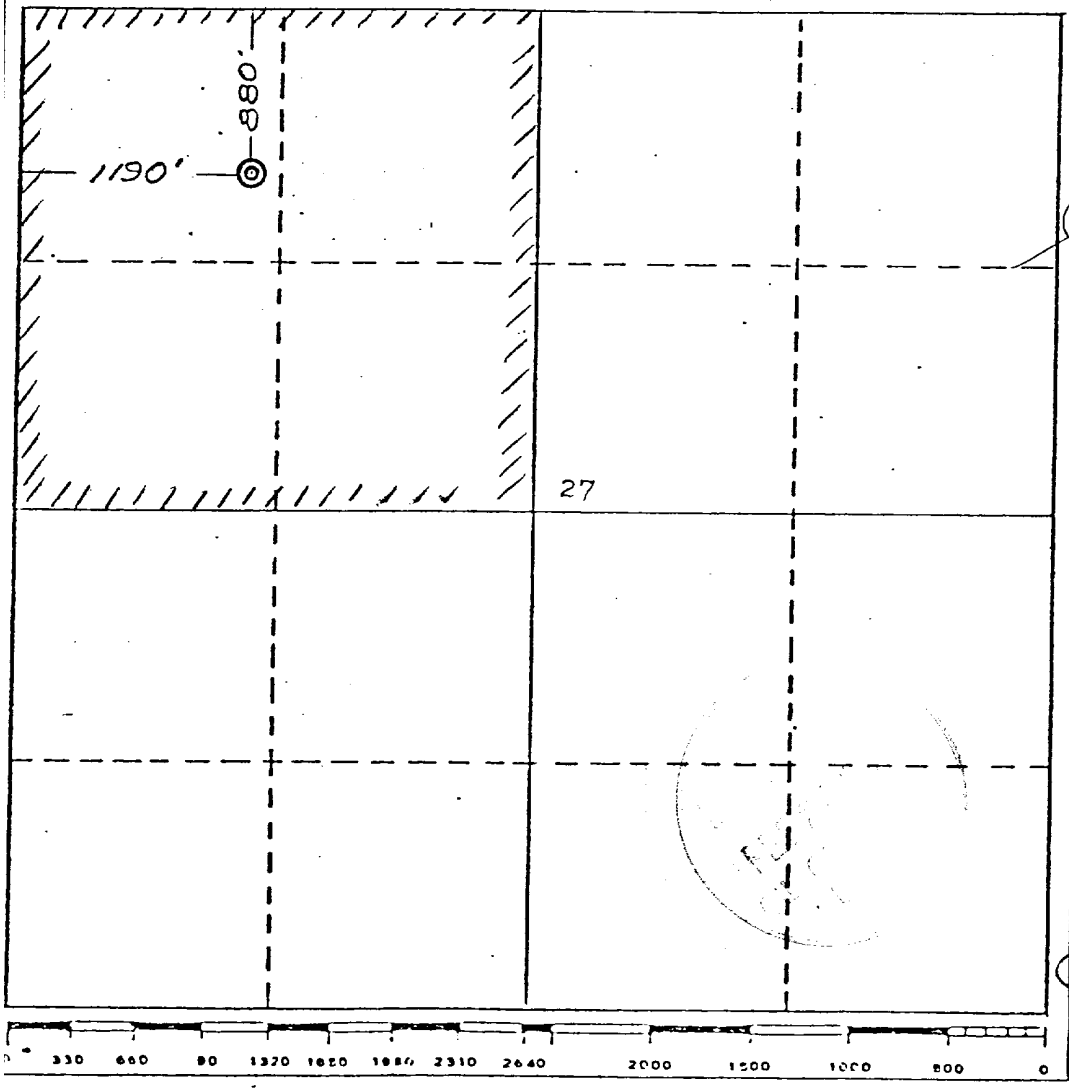
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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: Clarence H. Brown
Agent

Company: Kimbark Operating Co.

Date: 2/21/79

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.

REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR
STATE OF NEW MEXICO
NO. 1463
JAMES P. LEESE

Date Surveyed
12 February 1979

Registered Professional Engineer and/or Land Surveyor
James P. Leese

Certificate No.
1463

Report 78-SJC-037
Permit 75-NM-013

An Archaeological Clearance Survey of Three Well Locations & Access Roads Conducted for Kimbark Operating Company

Dabney Ford
Cultural Resource
Management Program
San Juan Campus
N. M. State University
4 April 1978

An Archaeological Clearance Survey of
Three Well Locations & Access Roads
Conducted for Kimbark Operating Company

On March 28, 1978, Dabney Ford of the Cultural Resource Management Program, NMSU, San Juan Campus, conducted an archaeological clearance survey at the request of Mr. Elliot Riggs, Kimbark Operating Company. The well locations and access roads are on Bureau of Land Management lands and were surveyed under Federal Antiquities permit 75-NM-013.

METHODOLOGY

The well locations were surveyed by walking parallel transects, 75 feet apart, over the entire easement. The roads were inspected by walking the length of the route down the centerline.

GENERAL RECOMMENDATIONS

No cultural resources were found on the proposed well locations or access roads and full archaeological clearance is recommended.

HORTON #4A

Land Status: Bureau of Land Management

Location: SE¼ of the NW¼ of the NW¼ of Section 27, Township 32 North, Range 12 West, N.M.P.M., in San Juan County, New Mexico. The well will be 990 feet from the north line and 1090 feet from the west line of Section 27. A 300 X 300 foot area was surveyed (Figure 1).

Access: 2500 feet long and 20 feet wide approaching the well from the east.

Terrain: Rolling swale with northerly drainage, alluvial surface deposits, and sandstone outcrops.

Soil: Sandy clayey loam.

Vegetation: Sagebrush, blue grama, galleta, prickly pear, tumbleweed.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

KIMBARK #10

Land Status: Bureau of Land Management

Location: NW¼ of the SE¼ of the NE¼ of Section 13, Township 32 North, Range 12 West, N.M.P.M., in San Juan County, New Mexico. The well will be 1820 feet from the north line and 1120 feet from the east line of Section 13. A 300 X 300 foot area was surveyed (Figure 2).

Access: 500 feet long and 20 feet wide approaching the well from the west.

Terrain: Level valley bottom with southwesterly drainage, alluvial surface deposits, and sandstone outcrops.

Soil: Loamy sand.

Vegetation: Juniper, piñon, bitterbrush, snakeweed, rabbitbrush, Yucca baccata, Ephedra viridis.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

STOREY #4

Land Status: Bureau of Land Management

Location: SW¼ of the NE¼ of the SW¼ of Section 34, Township 32 North, Range 11 West, N.M.P.M., in San Juan County, New Mexico. The well will be 1530 feet from the south line and 1475 feet from the west line of Section 34. A 300 X 300 foot area was surveyed (Figure 3).

Access: Northeast edge of proposed location borders on existing road.

Terrain: Broken valley bottom with southeasterly drainage, alluvial surface deposits, and sandstone outcrops.

Soil: Sandy loam.

Vegetation: Rabbitbrush, snakeweed, juniper, pinon, blue grama, prickly pear, galleta, sagebrush, plantin.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

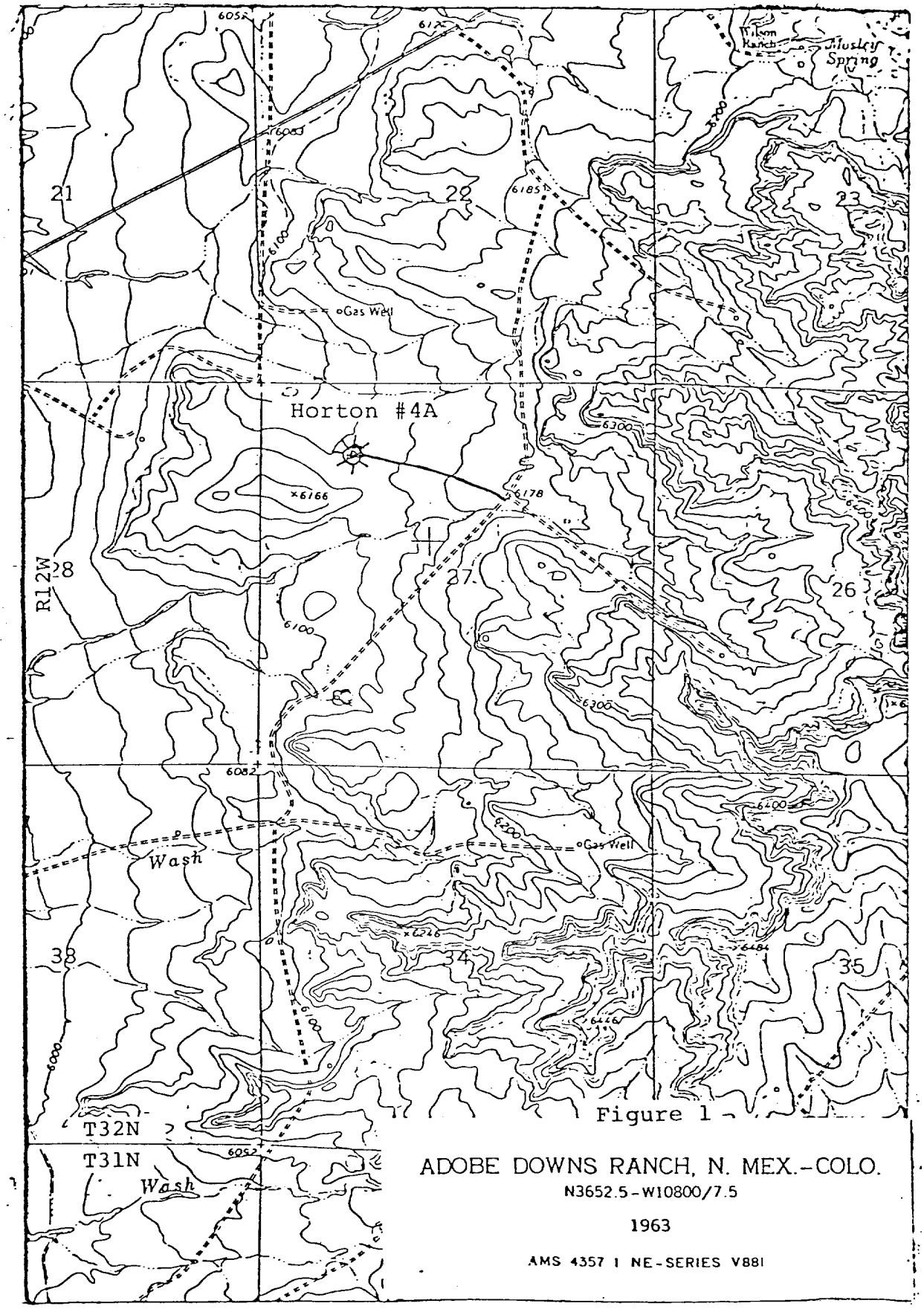


Figure 1

ADOBE DOWNS RANCH, N. MEX.-COLO.

N3652.5-W10800/7.5

1963

AMS 4357 I NE-SERIES V881

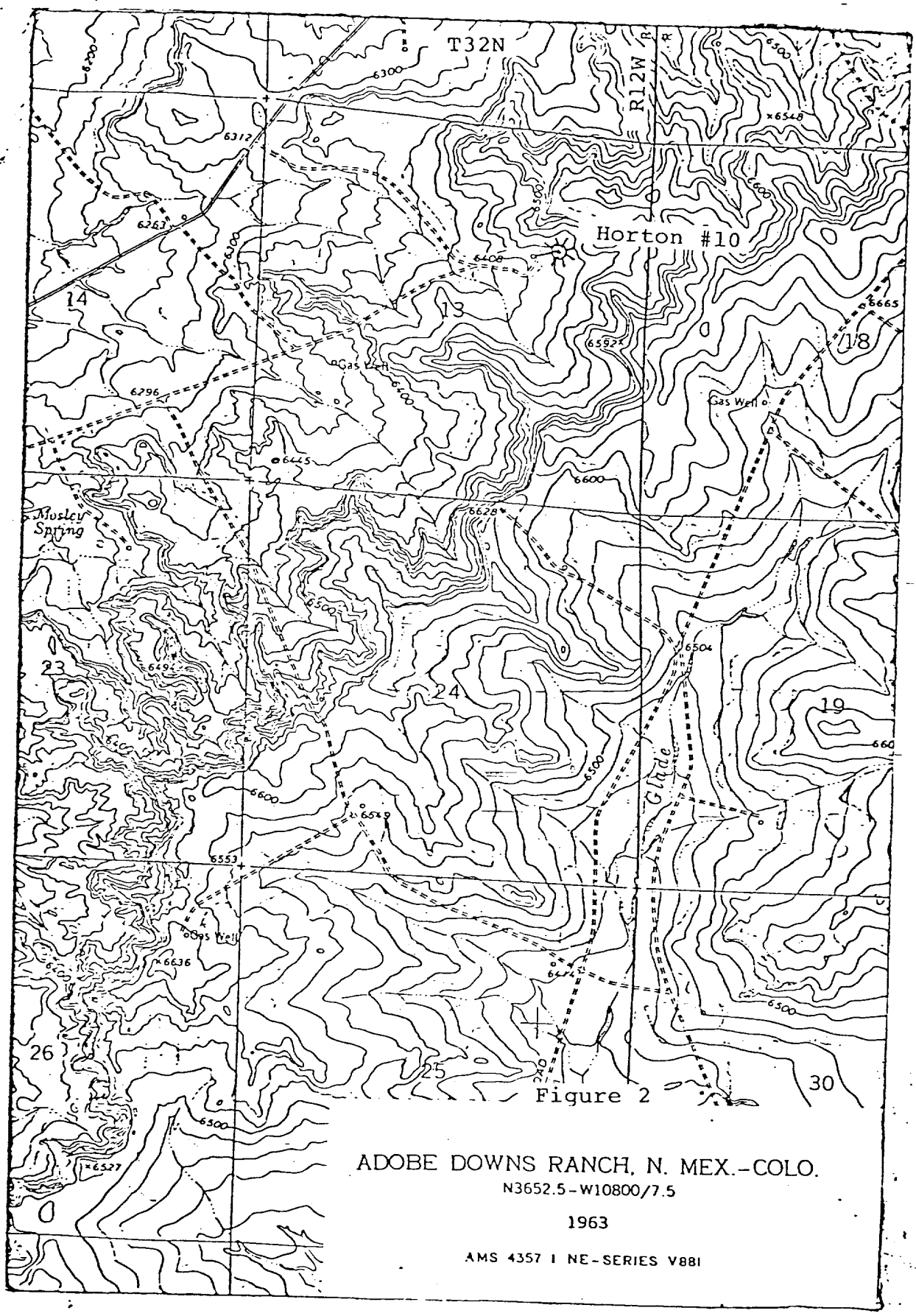


Figure 2

ADOBE DOWNS RANCH, N. MEX.-COLO.

N3652.5-W10800/7.5

1963

AMS 4357 I NE-SERIES V881

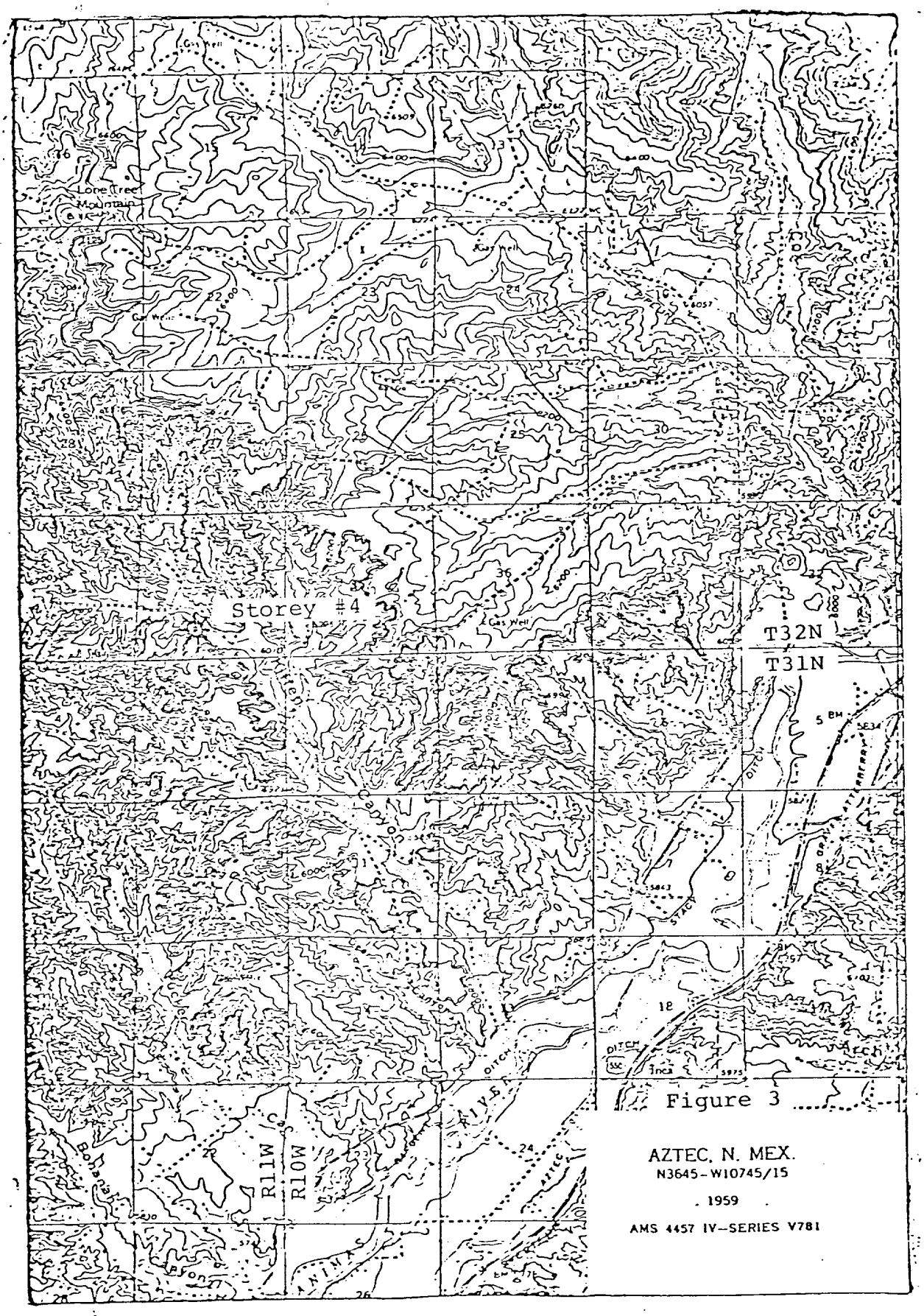

Lone Tree Mountain
Storey #4
T32N
T31N
R11W
R10W
RIVER
DITCH
AZTEC, N. MEX.
N3645-W10745/15
1959
AMS 4457 IV-SERIES V781

Figure 3

KIMBARK
SUITE 808 LINCOLN TOWER BUILDING
1860 LINCOLN STREET
DENVER, COLORADO 80295
303-839-5504

KIMBARK OPERATING COMPANY
KIMBARK COMPANY
KIMBARK ASSOCIATES

WALTER K. ARBUCKLE
GEORGE WALLACE BAYNE
WILLIAM R. THURSTON

February 8, 1979

Mr. J. W. Decker
1720 Crestview Drive
Durango, Colorado 81301

Re: Kimbark Operating Co.
Horton #11 (PC)
NW/4 27-32N-12W
San Juan County, N.M.

Dear Mr. Decker:

Kimbark plans to drill the captioned Pictured Clif test and is requesting permission from the U.S.G.S. and B.L.M. to approve this location. We understand that you own the surface in the NW/4 of section 27, T32N, R12W. The location of well #11 will be approximately ~~1001 south~~ 150' Northeast of our existing #4-A well which is a Mesaverde completion. We plan to use existing roads in the area with a minimum of surface disturbance. Most of the work will be at the actual wellsite which will include a portion of the existing pad utilized for the drilling of well #4-A.

The B.L.M. now requires a written plan of restoration to take place after cessation of operations. We suggest the following:

> At the conclusion of drilling operations, the reserve dirt will be fenced, sheep tight, to allow pit to dry. After the reserve pit is covered, the location will be cleared and leveled. If the well is plugged and abandoned, any road will be restored, if requested, close to original condition. Disturbed areas will be reseeded, if required, as per surface owner's recommendation, or that of the B.L.M.

If the foregoing is satisfactory to you, we would appreciate your concurrence by your signature below and returning one copy to the address below. If you have any questions, please call me collect at the telephone number below. Thanking you in advance.

Yours Truly,

KIMBARK OPERATING CO.

Clarence H. Brown, Agent
1860 Lincoln Street #808
Denver, CO 80295
PH: 303-839-5944

CHB:jl
enc; map

J. W. Decker

2/16/79
Date:

NTL-6 ENVIRONMENTAL PROTECTION STATEMENT

Operator: Kimbark Operating Co.

Well No. and Lease: Horton #11 (PC)

Location: NW¼ 27-32N-12W

County and State: San Juan Co., New Mexico

Date: January 29, 1979

TO: District Engineer, U. S. Geological Survey,
Bureau of Land Management and/or U. S. Forest Service

I. General

The following information is provided in order that the environmental impact of proposed operations on subject leasehold may be evaluated. Oil and gas operations by this operator will be totally systemized between management and operations personnel to ameliorate and minimize any adverse effect on the environment. Operator plans to conduct operations in such a fashion that will:

(A) Result in diligent development and efficient resource recovery.

(B) Afford adequate safeguard for the environment.

(C) Result in proper rehabilitation of disturbed land.

(D) Assure protection of public health and safety.

(E) Conform with best-available oil field practice.

II. Drilling Operations

A. Preliminary Environmental Review

Request for permission to stake well location and submission of topo map has been done previously.

B. Application for Permit to Drill, Deepen, or Plug Back

(1) Form 9-331C (Application for Permit to Drill, Deepen, or Plug Back) is attached.

(2) Multi-Point Surface Use and Operations Plan is attached.

(3) If private surface is involved, Rehabilitation Agreement is attached (see Exhibit I-A).

(4) Form 9-331C

1. Location - see 9-331C
2. Elevation gl - see 9-331C
3. Geologic name of surface formation - see 9-331C
4. Type drilling tools - see 9-331C
5. Proposed TD - see 9-331C
6. Estimated tops of important geologic markers - see Exhibit I
7. Estimated depth anticipated water, oil, gas, or other mineral bearing form - see Exhibit II
8. Proposed casing program (size, grade, wgt., N or U) - see 9-331C
9. Proposed setting depth each string (amt., type cmt. and additives) - see 9-331C
10. Operator's planned minimum specs for pressure control equipment, schematic, sizes and pressure ratings (API series), testing procedures and frequency - see Exhibit III
11. Type and characteristics of circulating medium (quantities and types of mud and weighting material to be maintained) - see Exhibit IV
12. Testing, logging, and coring program w/provision for flexibility - see Exhibit V
13. Any anticipated abnormal pressures, temperatures, or hazardous gases (H_2S), and mitigating plans if necessary - see Exhibit VI
14. Anticipated starting date and duration of operation - see Exhibit VII
15. Extraneous facets of proposed operation - see Exhibit VIII

(5) Provide copy of approved Application for Permit to Drill at well site - see dog house wall

Horton #11 (PC)
NW/4 Section 27,32N,12W
San Juan Co., New Mexico

EXHIBIT I (to accompany form 9-331C)

(4-6) Est. tops of important geologic markers.

San Jose (Tsj)	
Naciemento (Tn)	surface
Ojo Alamo (Toa)	1655'
Kirtland (Kkt)	1822'
Fruitland (Kfl)	2105'
Fruitland Coal	2585'
Pictured Cliffs (Kpc)	2605'
Lewis (Klw)	2721'
HBM	
Mesa Verde Tran.	
Cliff House (Kch)	4244'
Menefee (Kmf)	4460'
Point Lookout (Kpl)	4924'
Mancos (Kmc)	
Gallup (Kg)	
Tocito	
Sanostee	
Greenhorn (Kgh)	
Graneros (Kgn)	
Graneros SS	
Dakota (Kd)	
Morrison (Jm)	

Kimbark Operating Co.
Horton #11 (PC)
NW/4 27-32-N-12-W
San Juan Co., New Mexico

EXHIBIT II (to accompany form 9-331C)

(4-7) Est. depths anticipated water, oil, gas, or other mineral bearing formations.

Ojo Alamo (wtr)	1655'
Fruitland (coal)	2585'
Pictured Cliffs (gas)	2605'
Cliff House (gas)	4244'
Menefee (coal and gas)	4460'
Point Lookout (gas)	4924'
Gallup (oil and gas)	
Dakota (oil and gas)	

Horton #11 (PC)
NW/4 27-32N-12W
San Juan Co., New Mexico

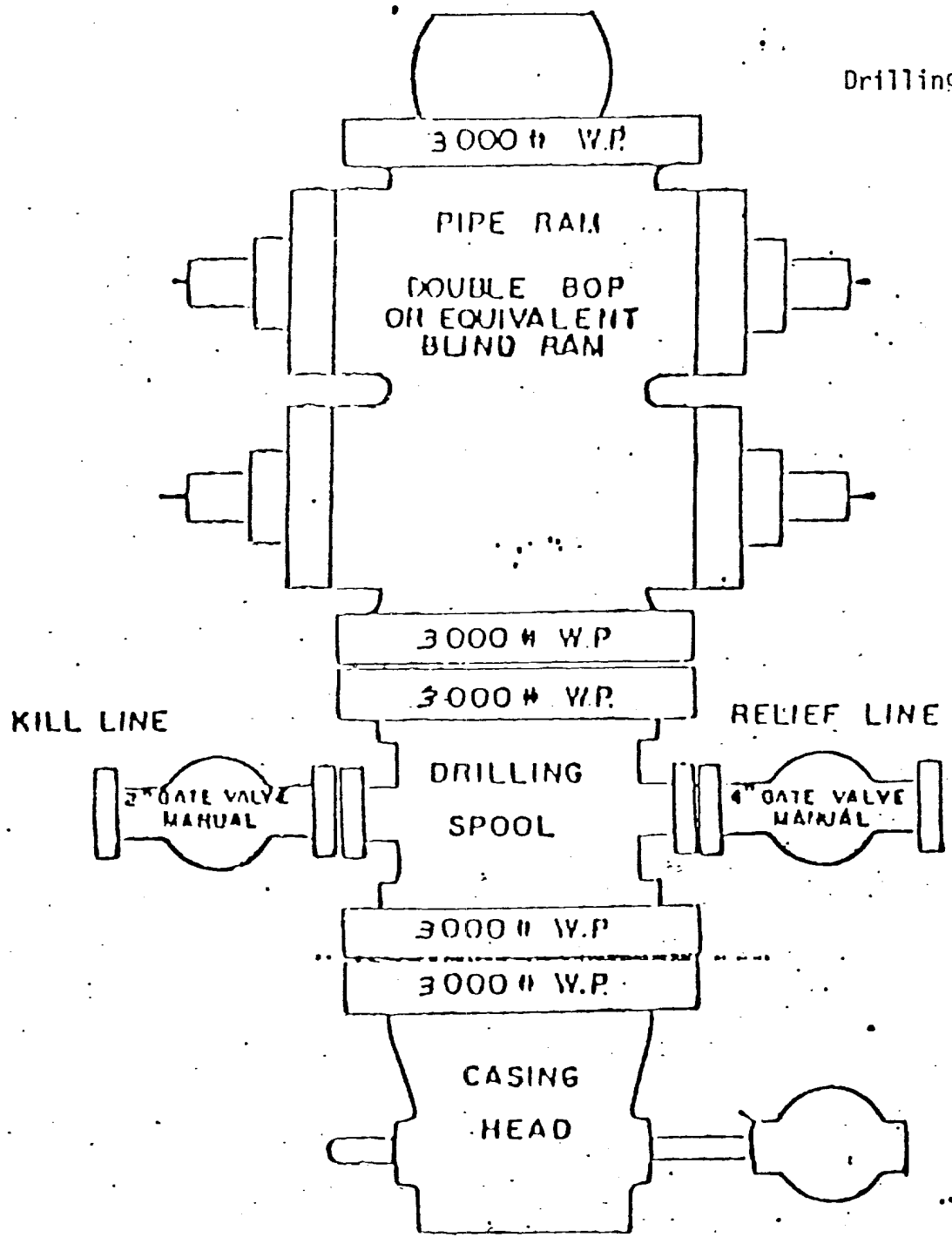
YOUNG DRILLING CO

P. O. BOX 717

FARMINGTON, NEW MEXICO 87401

SCHEMATIC DRWAING OF BLOWOUT PREVENTER STACK

RIG 2 AND RIG 3



Shaffer Hydraulic
double gate BOP
(or equivalent)
API Series 900
3000# W.P.
6000# Test

LING CONTRACTOR FURNISHES EVERYTHING ABOVE CELLAR WALL.

SCHEMATIC BLOW-OUT EQUIPMENT

EXHIBIT ###

Horton #11 (RC)
NW/4 27-32N-12W
San Juan Co., New Mexico

EXHIBIT III (to accompany form 9-331C)

(4-10) Planned pressure control, planned testing, frequency and procedures. Testing procedure of pressure control equipment and frequency will be conducted in accordance with approved API procedures and/or best oil field practice in area concerned.

(a) Visual inspection will be made of its equipment before installation.

(b) After installation, equipment will be tested at manufacture's rated, equipment pressure, or at least as high as obtainable with wellsite equipment.

(c) Pressure control equipment will be operationally tested each trip for bit, but not more than once per day.

EXHIBIT IV (to accompany form 9-331C)

(4-11) Planned types and characteristics of circulating medium.

Depth	Mud Weight	Viscosity
0-700'	8.4 - 8.7	29 - 36

Spud with fresh water gel slurry. Adjust viscosity as needed to keep hole clean and remove cuttings. Water loss adjusted to minimize fluid loss into shales. Hole will be circulated and cleaned before running surface and/or intermediate casing strings. Shale shaker will be used to remove cuttings except as selectively shut down to prevent loss of LCM. Desilter will be used if necessary. A gas buster will be installed if considered necessary.

700-TD	8.7 - 9.0	32 - 40 36 - 50 for logging and testin

Gradual improvement of mud quality will be instituted in functional incremental degrees as required or judged necessary. Quality mud will be in total circulating system before penetrating projected pay zone. Quality mud will be used to log well and run long string of casing.

LCM will be stacked at drillsite in sufficient quantity to handle any foreseen problems. Additional quantities will be on call at stock points at Farmington for additional backup.

Weighting material will be on hand or available at stock points in Farmington in case of need.

Horton #11 (PC)
NW/4 27-32N-12W
San Juan Co., New Mexico

EXHIBIT V (to accompany form 9-331C)

(4-12) Planned testing, logging, and coring program (with provision for flexibility).

DST's planned: None

Cores planned: None

Logs planned : Suitable Resistivity, reciprocal Conductivity, and SP log in fluid filled hole; Gamma-ray Induction if hole dry.

Suitable porosity log if tools available, GR Comp. Den. and/or Comp. Neut. with caliper.

All logs in API units.

If circumstances arise, will consider a selected DST and/or core if additional reservoir information desired.

EXHIBIT VI (to accompany form 9-331C)

(4-13) Anticipated abnormal pressures, temperatures, or hazardous gases (H_2S).

(a) Anticipated abnormal pressures: None

(b) Anticipated abnormal temperatures: None

(c) Anticipated hazardous gases (H_2S): None

If any of the foregoing are unexpectedly encountered, suitable steps will be taken to mitigate.

EXHIBIT VII (to accompany form 9-331C)

(4-14) Anticipated starting date and duration of operation.

(a) Anticipated starting date: March 15, 1979

(b) Duration of operation: Drilling, etc., 15 days

(c) Depending on weather and rig availability, will either complete well with the drilling rig on the hole or in the logistical alternative, subsequently use a completion rig. Unless operational problems are encountered, expect to perf., frac., run tubing, and clean up well in approximately 8 days.

EXHIBIT VIII (to accompany form 9-331C)

(4-15) Extraneous facets of proposed operation.

(a) None.

NTL-6 ENVIRONMENTAL PROTECTION STATEMENT

Operator: Kimbark Operating Co.

Well No. and Lease: Horton #11 (PC)

Location: NW¼ 27-32N-12W

County and State: San Juan Co., New Mexico

Date: March 15, 1978

III. Multi-Point Surface Use and Operations Plan

Plan submitted is in sufficient detail to permit complete appraisal of environmental effects associated with proposed project.

Submitted in tripilicate to USGS District Engineer along with form 9-331C.

A-1. Existing Roads (see Exhibit A)

(a) Topo or county road map.

(b) Proposed route shown including distances to highway or county road.

(c) Proposed access roads labeled.

(d) Wildcat - all existing roads within 3-mile radius.

Development well - all existing roads within 1-mile radius.

(e) Improvement and/or maintenance of existing roads will be only as necessary and normally consist of minor blade work.

A-2. Planned Access Roads (see Exhibit A)

(a) Identify permanent and temporary access roads.

1. Planned data on newly constructed access roads (see Exhibit A-1).

a. Width

b. Maximum grade

c. Turnouts

d. Drainage design

e. Location and size of culverts

f. Surfacing material

g. CL staked or flagged

h. Where existing fence to be cut

i. Gates or cattleguard to be used

j. Any existing gates to be replaced

k. Any existing cattleguards to be replaced

A-3. Location of Existing Wells (see Exhibit B)

(a) Wildcat - all wells within 2-mile radius (include water wells - use topo)

(b) Development well - all wells within 1-mile radius (include water wells - use topo)

A-4. Location of Existing and/or Proposed Facilities - tank batteries, production facilities, and production, gathering, and service lines (see Exhibit C)

(a) Existing facilities within 1-mile radius of location owned or controlled by operator to be shown on a plat or map.

(b) Are there existing facilities owned within 1 mile located on drill-site pad?

(c) Protective measures to functionally minimize and/or ameliorate hazards to livestock, waterfowl, and other wildlife will be to suitably fence any pits, if considered necessary, of both temporary and permanent nature.

(d) Are new facilities on proposed well expected to be located on drill-site pa

(e) All production facilities will be located on the drillsite in optimum positions with due organizational regard to traffic mobility and ROW sale line options and flexibility.

(f) All disturbed areas not needed for operation and maintenance will be reseed as required by surface jurisdictional and management agencies or fee land owner.

(g) Future prospects for additional development of this leasehold have been functionally considered in this plan.

A-5. Location and Type of Water Supply (see Exhibit D)

(a) Location of water for drilling purposes and method and route of transporta are stated in above mentioned Exhibit.

A-6. Source of Construction Materials (see Exhibit E)

(a) Location of proposed source of sand, gravel, stone, soil, or construction materials and transportation route are described in above mentioned Exhibit.

A-7. Method of Handling Waste Disposal (see Exhibit F)

(a) A brief written narrative description of method and location for safe containment and desposal of each type of waste material which results from drilling of proposed well and eventual disposal of drilling fluids and any produced oil or water recovered during testing operations are described in above mentioned Exhibit.

A-8. Ancillary Facilities (see Exhibit G)

(a) Plans and maps for camps, airstrips, location and land area required, and methods and standards of construction are detailed in above mentioned Exhibit. Center lines of camps and airstrips shall be staked on the ground.

A-9. Well-site Layout (see Exhibit H)

(a) A proposed plat of well-site layout showing cuts and fills and relation to topography is provided, including cross sections. The proposed location of mud tanks, pits (reserve, burn, and trash), pipe racks, access roads, turn-around areas, living facilities, soil material stockpiles (if necessary), and orientation of rig are indicated. Plans to line pit are noted.

A-10. Plans for Restoration of Surface (see Exhibit I)

(a) Proposed program for surface restoration upon completion of operation is outlined in above mentioned Exhibit. Waste disposal is outlined in Exhibit F: Proposed timetable for commencement and completion of rehabilitation operations is also provided.

A-11. Other Information (see Exhibit J)

(a) General description of topography.
(b) Soil characteristics.
(c) Formation lithologies.
(d) Geologic features.
(e) Flora.
(f) Fauna.
(g) Surface use activities.
(h) Surface ownership at well location.
(i) Surface ownership lands crossed by newly constructed or upgraded roads.
(j) Any other information considered to be useful by operator to USGS and BLM and/or Forest Service.
(k) Proximity to steep hillsides.
(l) Proximity to steep gullies.
(m) Proximity to water wells (see Exhibit B).
(n) Proximity to ponds.

(o) Proximity to streams.
(p) Proximity to other facilities.
(q) Proximity to occupied dwellings.
(r) Proximity to archeological sites.
(s) Proximity to historical sites.
(t) Proximity to cultural sites.
(u) Information concerning cuts and fills of roads (see Exhibit A-1).
(v) Information concerning cuts and fills of location (see Exhibit H).
(w) Construction practices necessary to accommodate potential geologic hazards.

A-12. Operator's Representative (see Exhibit K)

(a) Name, address, and phone number of operator's field representative(s).

A-13. Certification (see Exhibit L)

(a) Signed by field representative.

IV. Environmental Analysis Requirements

A. If preliminary inspection is not made prior to staking, an on-site inspection will normally be required by representatives of District Engineer (USGS), operator, and Federal Surface Management Agency.

V. Approval of Subsequent Operations

A. Must be done on 9-331A or 9-331C and approval obtained before work started.

B. Operator must submit for approval suitable plan prior to any new construction or alteration of any existing facilities, including roads, dams, and productio facilities.

VI. Agreement for Rehabilitation of Privately-Owned Surface (see Exhibit K, if applica

A. Form 9-331C shall contain information landowner's rehabilitation requirements.

B. Written agreement or letter must be furnished.

C. If landowner's requirements are impossible or impractical, a letter describing situation will be acceptable.

D. If no arrangements made, USGS will request appropriate Federal agency to recommend surface restoration requirements.

VII. Well Abandonment (see Exhibit L, if applicable)

A. No well abandonment operations will be commenced without prior approval of District Engineer.

B. Upon completion of abandonment or rehabilitation operations, District Engineer to be notified by Sundry Notice.

VIII. Water Well Conversion (see Exhibit M, if applicable)

A. Well that encounters usable fresh water will not be approved if Federal Surface Management Agency wants to acquire well.

B. If Federal Surface Management Agency elects to acquire well, it will reimburse operator for cost of any recoverable casing or well-head equipment which it requests to be left in or on the hole.

c. Operator completes cleanup.

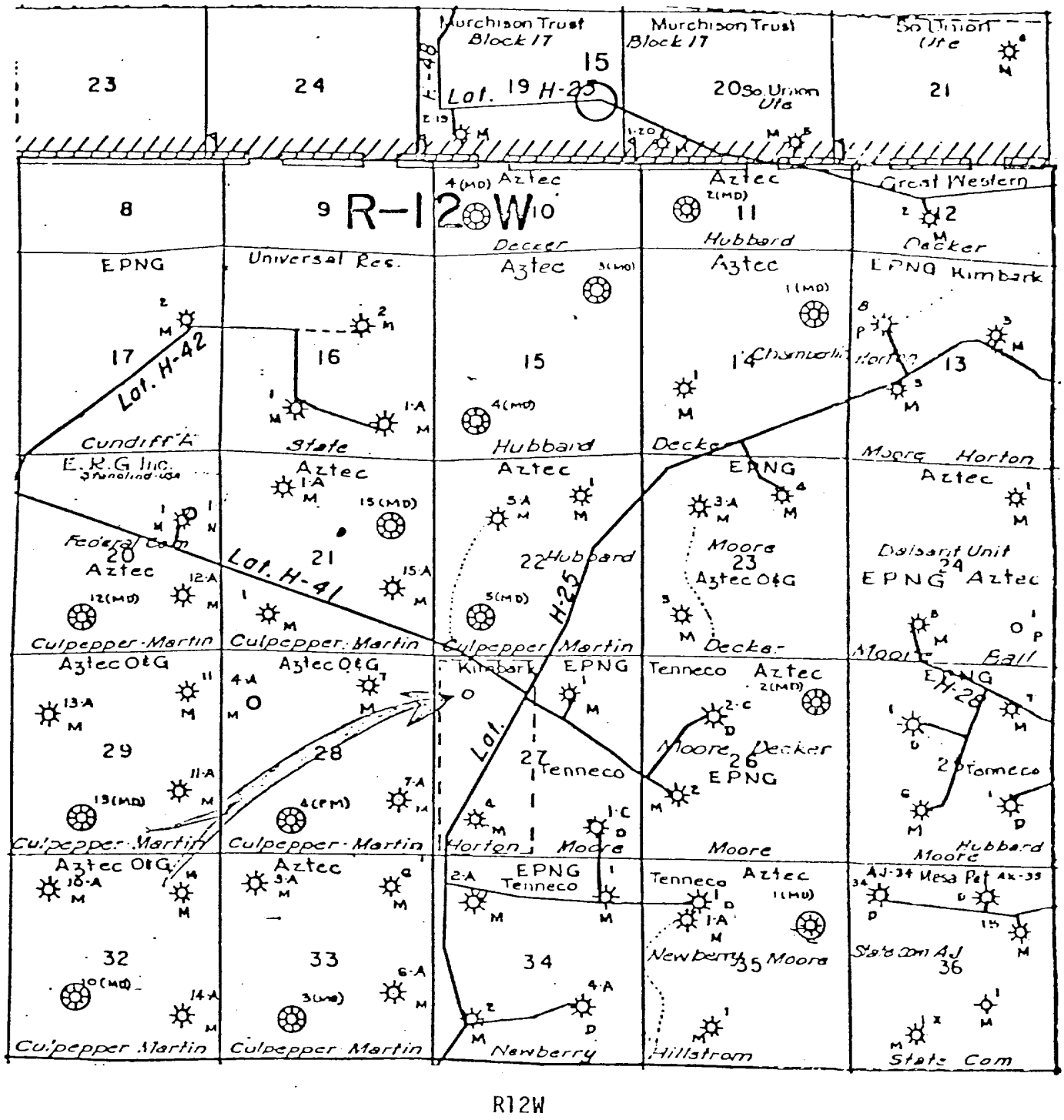
Norton #11 (RC)
NW/4 27-32N-12W
San Juan Co., New Mexico

EXHIBIT A-1 (to accompany Exhibit A)

(III-A-2-1) Planned data on newly constructed access roads.

(a)	Width	20½'
(b)	Maximum grade	2%
(c)	Turnouts	yes (no)
(d)	Drainage design	natural
(e)	Location and size of culverts	none
(f)	Surfacing material	none
(g)	CL staked or flagged	Area snow covered; will coordinate with BLM and archeologist. yes (no)
(h)	Where existing fence to be cut	none
(i)	Gates or cattleguard to be used	yes (no)
(j)	Any existing gates to be replaced	yes (no)
(k)	Any existing cattleguards to be replaced	yes (no)

Horton #11 (PC)
NW/4 27-32N-12W
San Juan Co., New Mexico
Exhibit B



R12W

Location Map:
Kimbark Operating Co.
Horton #11 (PC)
NW/4 27-32N-12W
San Juan County, N.M.

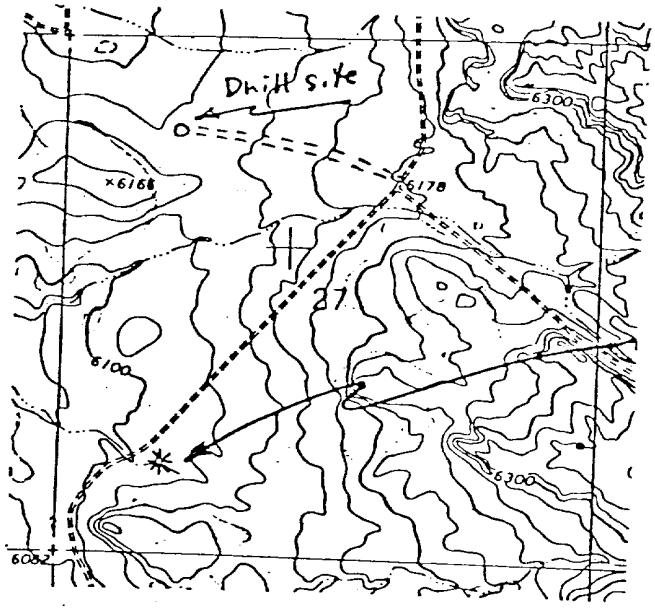
There are no known water wells within 1-mile radius of drillsite.

Horton #11 (PC)
NW/4 27-32N-12W
San Juan Co., New Mexico

EXHIBIT C

(III-A-4) Location of existing or proposed facilities.

(a) Facilities within 1-mile radius.



--Meter, separator, treater, cathodic protection equipment, all on old drillsite location (1 MV).

(b) Are there existing facilities owned within 1 mile located on drill-site pads? (Yes) No

(c) Are new facilities for proposed well expected to be located on drill-site pad? (Yes) No

EXHIBIT D

(III-A-5) Location, route, and method of transportation, and type of water supply.

(a) Location: Drilling and frac water planned to be hauled from irrigation ditch on north side of school on Light Plant Road at Aztec or from Animas River at Aztec, New Mexico.

(b) Route of transportation: County road 173 from Aztec, then along dirt road indicated on Exhibit A.

(c) Method of transportation: Water trucks.

(d) Type of water supply: Fresh water.

EXHIBIT E

(III-A-6) Source of construction materials.

(a) Sand: None

(b) Gravel: None

(c) Stone: None

(d) Soil: None

(e) Lumber will be purchased from suppliers in the Farmington/Aztec area and will use transportation route below.

(f) Planned transportation route will be on suitable public or private roads, normally from Farmington, New Mexico. Road and weather conditions at time of operations may have some effect on actual route. Plat below shows probable route of transportation.

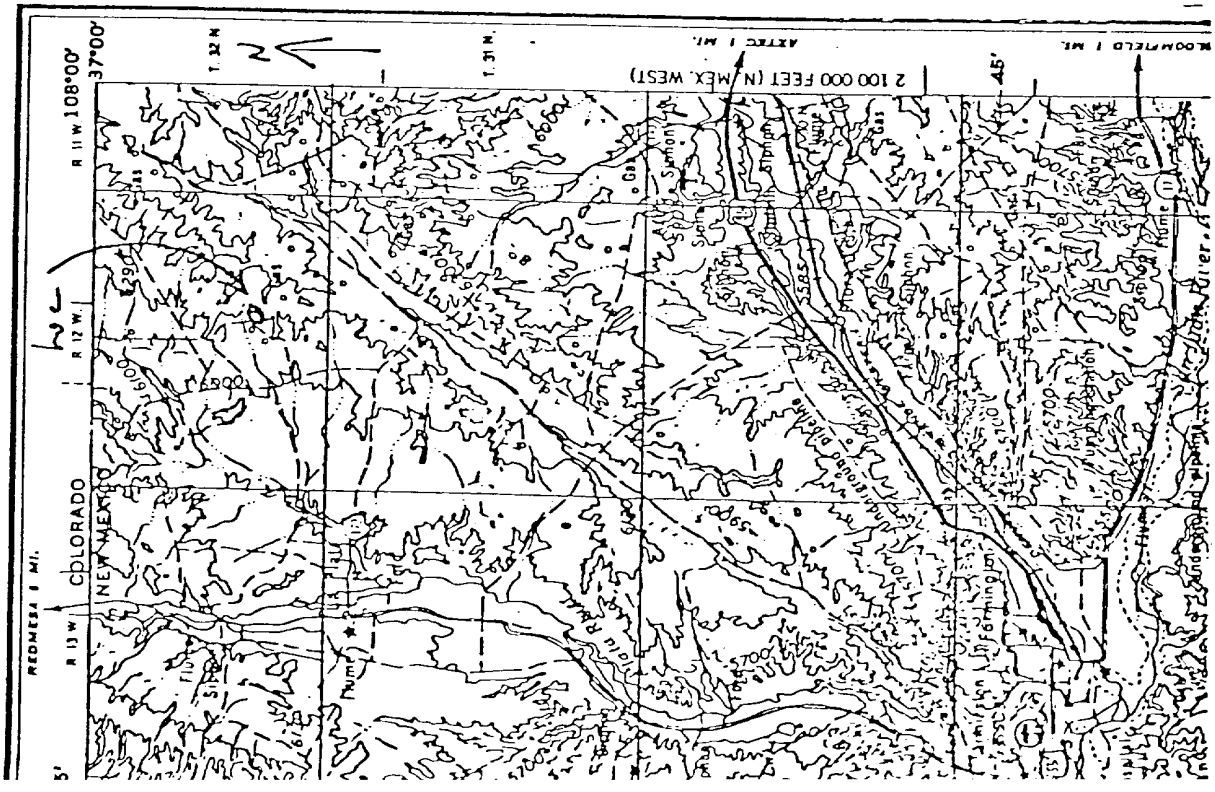


EXHIBIT F

(III-A-7) Method of handling waste material.

(a) Drill cuttings will be buried in reserve pit.

(b) Drilling fluids will be collected in reserve pit, allowed to evaporate and dry, and buried when dry.

(c) Small amounts of produced fluids will be collected in reserve pit, allowed to evaporate, and buried when dry.

(d) Any sewage will be covered and buried when portable toilet moved.

(e) Any garbage, cans, and general trash will be burned in burn pit and covered when reserve pit covered. Other general debris and waste material, such as junk iron, wire line, cans, and bags will either be burned or buried in reserve pit.

(f) Drilling crews, under the supervision of contractor or operator, will control and dispose of waste material during drilling operations.

(g) Roustabout or completion crews will dispose of trash after well is completed or abandoned. After drying of reserve pit, a general cleanup and covering of the pit along with leveling of location or drillsite will take place.

Horton #11 (PC)
NW/4 27-32N-12W
San Juan Co., New Mexico

EXHIBIT G

(III-A-8) Ancillary facilities.

(a) Camps planned: None (may have small house trailer on location for tool pusher).

(b) Airstrips planned: None.

(c) Area and land required for above: None.

Exhibit A

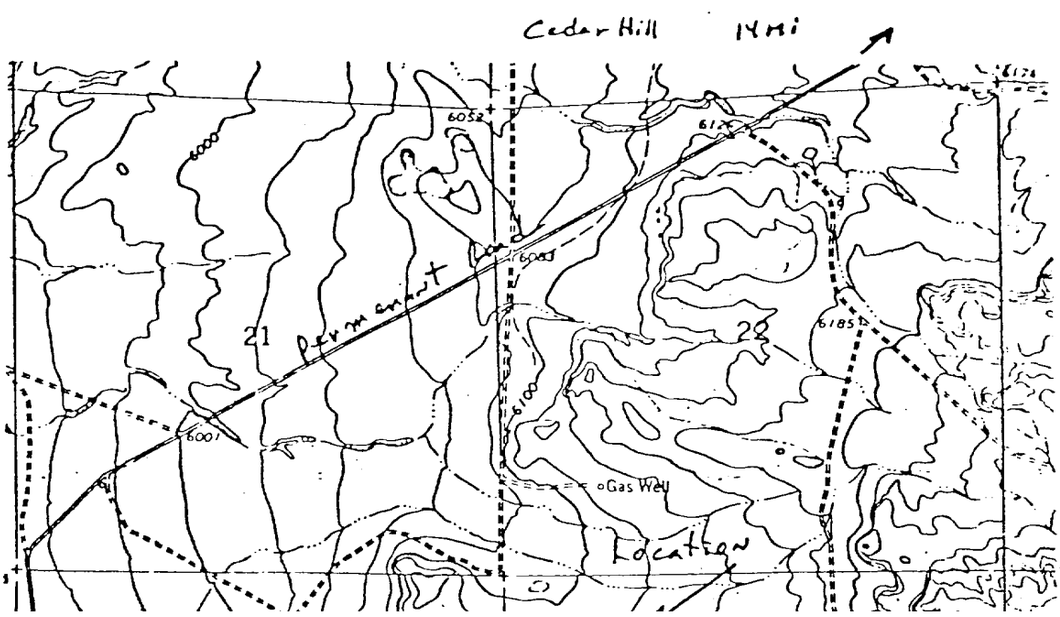
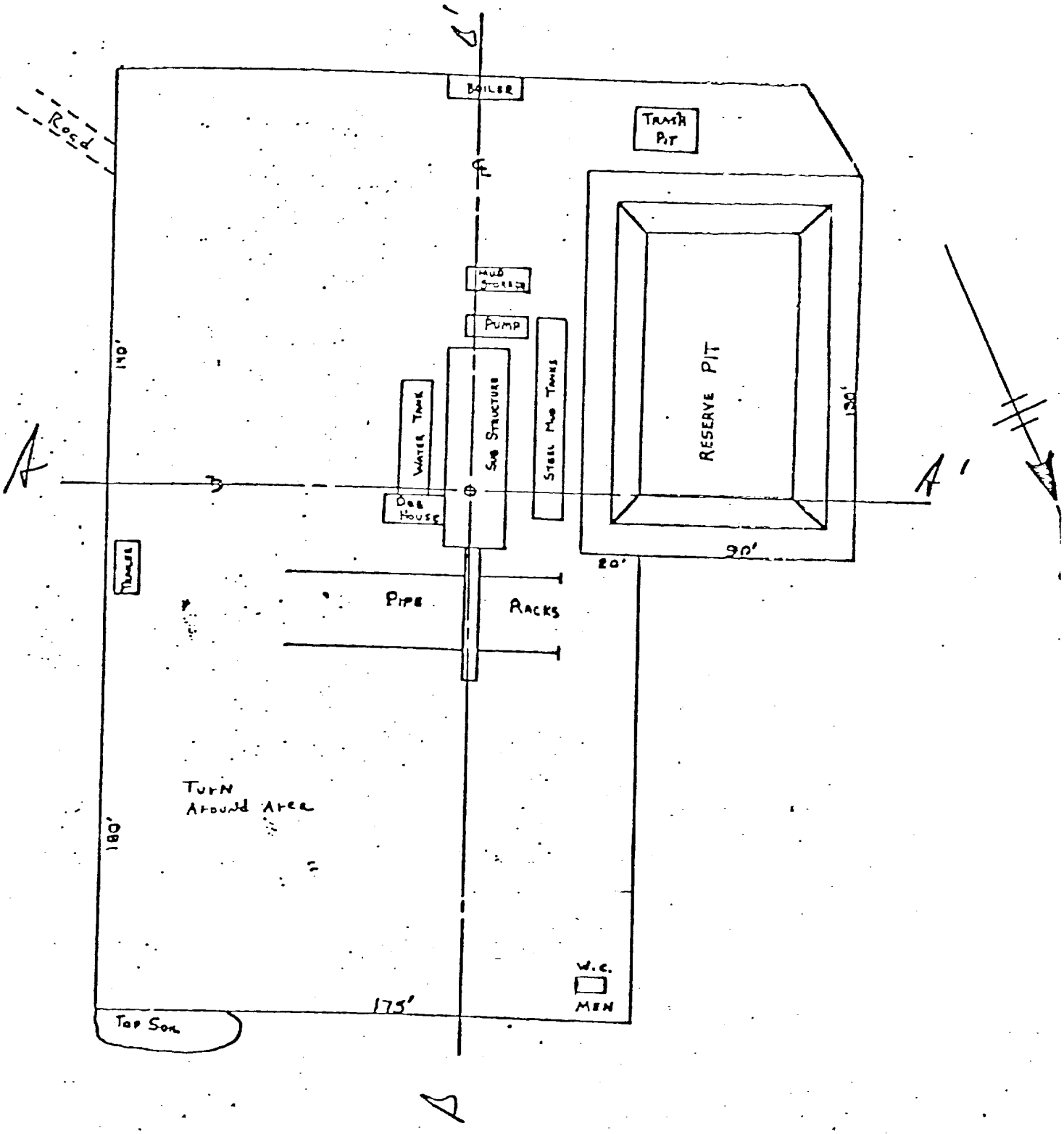


EXHIBIT H

Norton #11 (PC)
NW/4 27-32N-12W
San Juan Co., New Mexico

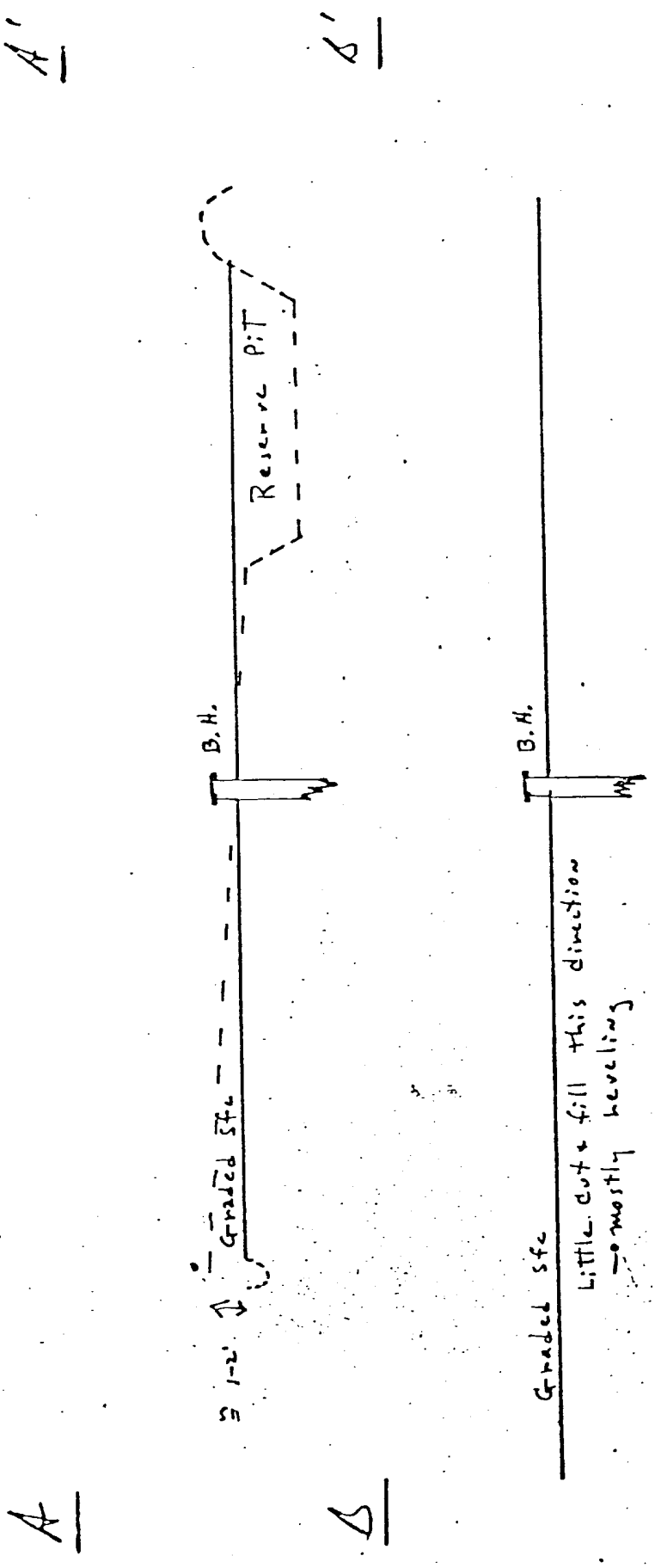
(III-A-9) Planned wellsite layout.



Reserve pit will be unlined.

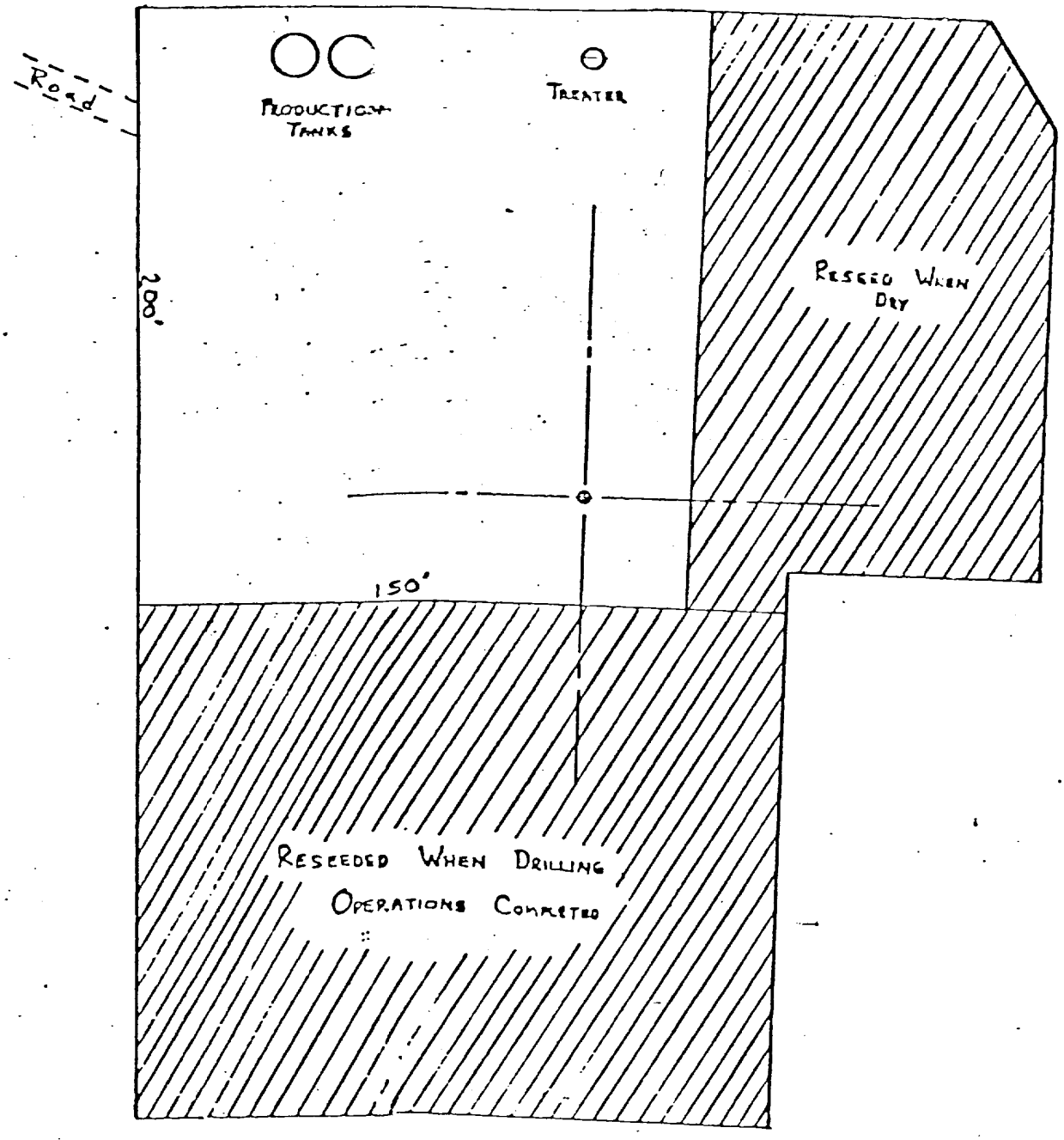
(III-A-9) Planned wellsite layout.

Horton #1 (1-E)
NW/4 27-32N-12W
San Juan Co., New Mexico



(III-A-10) Planned restoration of surface.

NW/4 27-32N-12W
San Juan Co., New Mexico



(a) Waste disposal outlined in Exhibit F.

(b) Rehabilitation commencement of wellsite surface will take place when well is completed and reserve pit is dry. Work will be completed 2½ days after commencement.

(c) Reseeding will take place within one week of completion of foregoing.

EXHIBIT J

(III-A-11) Other information.

(a) Area is flat to gently rolling with occasional mesa-valley topography developed. Area drained by ephemeral arroyos and washes.

(b) Sandy and clayey loam, where bare rock and shale exposed, no soil profile is developed.

(c) Surface formation lithologies are sandstone, siltstone, and shale.

(d) No unusual geologic features are present. Surface geomorphic features are described in (a).

(e) Flora: Normal dry land grasses are present, shrubs such as sagebrush, Morman tea, and occasional yucca are present. Trees such as pinon and juniper dot the landscape.

(f) Fauna: Rabbit, coyotes, and occasional deer are known. Domestic cattle, horses, and sheep occasionally graze the area. Small dry land mammals, rodents, and reptiles are present. It is doubtful that the peregrine falcon and the black-footed ferret exist in the area. A normal suite of birds, such as the pinon jay, raven, and an occasional hawk have been seen.

(g) There is no surface use activity except sporadic grazing.

(h) Federal, Fee, State, Indian.

(i) Federal, Fee, State, Indian.

(j) None

(k) None; adjacent to N, S, E, W.

(l) None; adjacent to N, S, E, W.

(m) See Exhibit B.

(n) None; adjacent to N, S, E, W.

(o) None; adjacent to N, S, E, W.

(p) None; adjacent to N, S, E, W.

EXHIBIT J (cont.)

(q) None; adjacent to N, S, E, W.

(r) None; adjacent to N, S, E, W.

(s) None; adjacent to N, S, E, W.

(t) None; adjacent to N, S, E, W.

(u) See Exhibit A-1.

(v) See Exhibit H.

(w) None.

EXHIBIT K

(III-A-12) Operator's representatives.

(a) Elliott A. Riggs
Petroleum Club Plaza Building
P. O. Box 711
Farmington, New Mexico 87401

Office (505) 325-9881
Residence (505) 325-8194

(b) Herman Fellhoelter, Jr.
P. O. Box 86
Plainville, Kansas 67663

Residence (913) 434-4501

(c) Clarence H. Brown
1860 Lincoln Street #808
Denver, CO 80295

303-839-5944

Horton #11 (PC)
NW/4 27-32N-12W
San Juan Co., New Mexico

EXHIBIT L

(III-A-13) Certification.

I hereby certify that I, or persons under by 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 Kimbark Operating Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

January 29, 1979
Date:

Clarence H. Brown, Agent