

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

~~John H. Hill, Individually and Gordon L. Llewellyn,  
As Trustee for Johannah Hope Hill and John Henry Hill, Jr.~~

## 3. ADDRESS OF OPERATOR

Suite 140 Campbell Centre, 8350 North Central  
Expressway, Dallas, Texas 75206

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

At surface

895'FNL &amp; 895'FEL (NE NE)

At proposed prod. zone

(Pictured Cliffs) Same

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

23.6 miles South of Blanco, New Mexico

## 15. DISTANCE FROM PROPOSED\*

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

895'

## 16. NO. OF ACRES IN LEASE

2560

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

3000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6291' GR

## 22. APPROX. DATE WORK WILL START\*

December 1, 1979

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	7-5/8" new	20# F-25 ST&C	200'	100sx or suff.to circ1.to surface
6-3/4"	2-7/8" new	6.5# J-55 ST&C	3,000'	200sx or suff.to cover Ojo Alamo

1. Drill 9-7/8" hole and set 7-5/8" surface casing to 200' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 6-3/4" hole to 3,000'.
3. Run tests if warranted and run 2-7/8" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

## EXHIBITS ATTACHED:

- "A" Location & Elevation Plat
  - "B" The Ten-Point Compliance Program
  - "C" The Blowout Preventer Diagram
  - "D" The Multi-Point Requirements for A.P.D.
  - "E" & "E<sub>1</sub>" Access Road Maps to Location
  - "F" Radius Map of Field
  - "G" & "G<sub>1</sub>" Drill Pad Layout, Cut-Fill Cross-Section & Production Facilities
  - "H" Drill Rig Layout
- gas is dedicated*

18. 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

JOHN H. HILL

TITLE

GORDON L. LLEWELLYN, as Trustee

DATE

12/1/79

(This space for Federal or State office use)

Johannah Hope Hill and John Henry Hill

PERMIT NO.

APPROVAL DATE

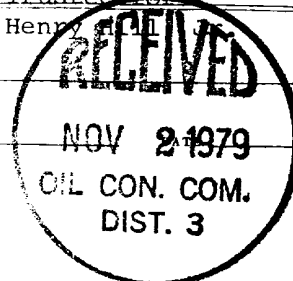
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

NMOC

\*See Instructions On Reverse Side



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-120  
Effective 1-1-65

EXHIBIT "A"

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

Location & Elevation Plat

Owner <u>John H. Hill &amp; Gordon Llewellyn</u>			Lease <u>SF-078384 ((NM 863)) Newson B Newson "B" #18</u>		
Section <u>A</u>	Section <u>8</u>	Township <u>26N</u>	Range <u>8W</u>	County <u>San Juan</u>	

Actual Footage Location of Well:

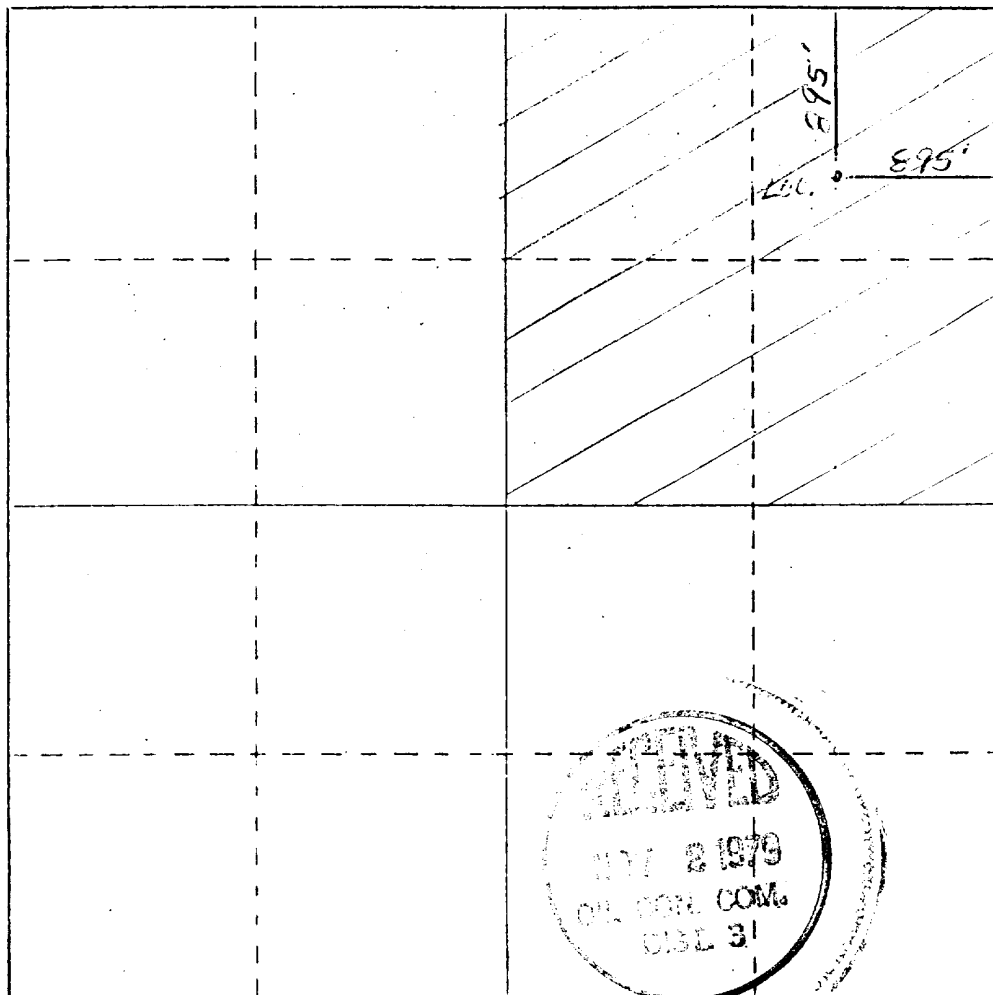
895	feet from the	North	line and	895	feet from the	East	line
Ground Level Elev. <u>6291</u>	Producing Formation <u>Pictured Cliffs</u>		Pool <u>Ballard Pictured Cliffs ext</u>	Dedicated Acreage: <u>160</u>		Acres	

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.

George Lapaseotes

Name: George Lapaseotes  
Position: V. Pres. Powers Elevation

Agent Consultant for  
Company

John H. Hill & Gordon Llewellyn

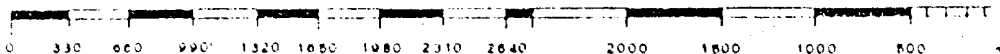
Date  
October 23, 1979

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.

10-23-79

Date Surveyed  
10-23-79  
Registered Professional Engineer  
and/or Land Surveyor

6857  
Certificate No.





POWERS ELEVATION

OIL WELL ELEVATIONS AND LOCATIONS  
CHERRY CREEK PLAZA, SUITE 1201  
600 SOUTH CHERRY STREET  
DENVER, COLORADO 80222  
PHONE NO. 303/321-2217

October 29, 1979

U.S. Geological Survey  
Office of the District Engineer  
P.O. Box 959  
Farmington, New Mexico 87401

RE: Filing NTL-6 and A.P.D. Form 9-331C  
John H. Hill & Gordon L. Llewellyn  
Newsom "B" #18  
NE NE Sec. 8 T26N R8W  
San Juan County, New Mexico

Gentlemen:

Enclosed are five copies of the NTL-6 program and A.P.D. Form 9-331C for the above captioned well location.

The archaeological report is not included with the NTL-6 report but will be forwarded to your office, and to the B.L.M. office, from our Archaeological Division in Eagle, Colorado.

Designation of Operator has been forwarded under separate cover by the operator.

We shall appreciate your earliest attention to this matter.

Very truly yours,

POWERS ELEVATION

*Connie L. Frailey*  
Connie L. Frailey

CLF:jr  
Enclosures

cc: Gordon L. Llewellyn, Dallas, Texas  
Leon Wiederkehr, Austin, Texas  
Neale Edwards, Powers Elevation, Durango, Colorado  
Dirt Contractor

Powers Elevation  
Suite 1201 Cherry Creek Plaza  
600 So. Cherry Street  
Denver, Colorado 80222

RE: Filing NTL-6 and A.P.D. Form 9-331C  
John H. Hill & Gordon L. Llewellyn  
Newsom "B" #18  
NE NE Sec. 8 T26N R8W  
San Juan County, New Mexico

Gentlemen:

This is to confirm our understanding with you that Powers Elevation is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.
- C. In performing the following rehabilitation work:

Powers' responsibilities do not include supervision of drilling, completion or rehabilitation operations, except as specifically noted in "C" above.

John H. Hill, Individually and Gordon L. Llewellyn  
as Trustee for Johannah Hope Hill and John Henry  
Hill, Jr.

\_\_\_\_\_  
Company

by: \_\_\_\_\_

Title Partner

Date October 12, 1979

EXHIBIT "B"  
TEN-POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C  
John H. Hill & Gordon L. Llewellyn  
Newsom "B" #18  
NE NE Sec. 8 T26N R8W  
895' FNL & 895' FEL  
San Juan County, New Mexico

1. The Geologic Surface Formation

The surface formation is the Wasatch.

2. Estimated Tops of Important Geologic Markers

Base of Ojo Alamo/Top of Kirtland Shale	1,933'
Fruitland	2,043'
Pictured Cliffs	2,158'
Total Depth	3,000'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Base of Ojo Alamo	1,933'	Water
Pictured Cliffs	2,158'	Gas

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE &amp; JOINT</u>	<u>NEW OR USED</u>
9 7/8"	0-200'	200'	7 5/8"	20# F-25 ST&C	New
6 3/4"	0-3000'	3,000'	2 7/8"	6.5# J-55 ST&C	New

Cement Program

- (a) Surface Casing: Cement with 100 sacks or sufficient to circulate to surface.
- (b) Production Casing: Cement with 200 sacks or sufficient to cover the Ojo Alamo.

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

<u>INTERVAL</u>	<u>TYPE</u>	<u>WEIGHT #/gal.</u>	<u>VISCOSITY-sec./qt.</u>	<u>FLUID LOSS cc</u>
0-200'	Natural mud	-----	-----	-----
200'-3000'	Fresh water gel	8.4-9.5	35-45	less than 10 cc

7. The Auxiliary Equipment to be Used

- (a) No kelly cock will be used.
- (b) A float will be used at the bit.
- (c) Neither a mud logging unit nor a gas detecting device will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- (a) No DST's are anticipated.
- (b) The logging program will consist of an IES and a GR Density over selected intervals. Other logs will be determined at well site to best evaluate any shows.
- (c) No coring is anticipated.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

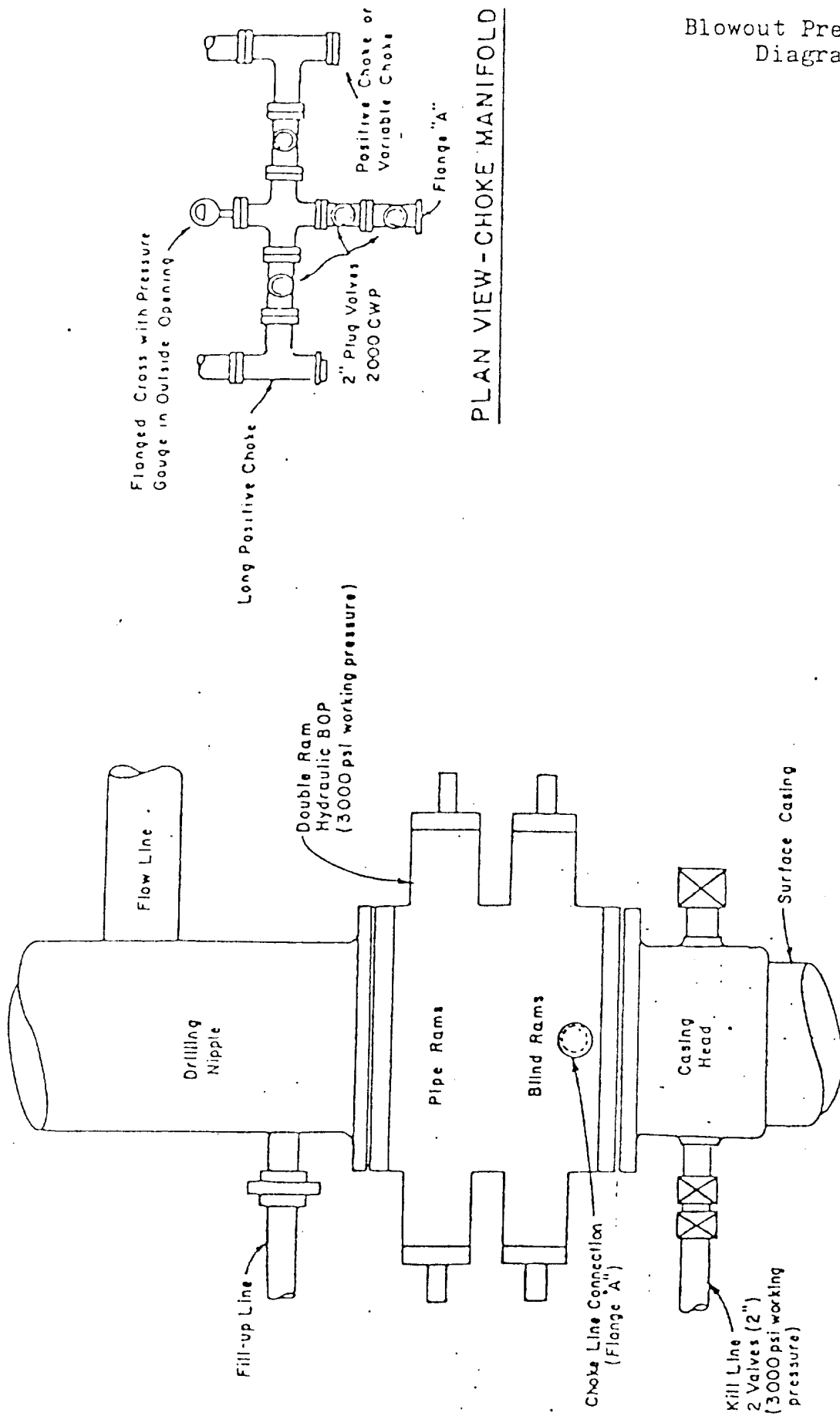
No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for December 1, 1979, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 30 days after spudding the well and drilling to casing point.

Blowout Preventer  
Diagram



PLAN VIEW-CHOKE MANIFOLD



EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C  
John H. Hill & Gordon Llewellyn  
Newsom "B" #18  
NE NE Sec. 8 T26N R8W  
895' FNL & 897' FEL  
San Juan County, New Mexico

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. The distance from Blanco, New Mexico is 23.6 miles. Proceed East on State Highway #17 for 1.3 miles to Cutter Dam Road (CR A-80), thence South (right) and continue for 7.5 miles on graded road to CR A-58. Turn South (right) and proceed 6.9 miles, thence East and South (left), across wash, continuing for 6.3 miles to oil field road. Continue for 0.7 mile to a fork in the road. Turn North (left) and proceed 0.6 mile to a producing well. Follow flagging for .3 mile to location, as shown on EXHIBITS "E" & "E<sub>1</sub>".
- C. All roads to location are color-coded on EXHIBITS "E" & "E<sub>1</sub>". An access road 0.3 mile from the existing gravel road will be required, as shown on EXHIBITS "E" & "E<sub>1</sub>".
- D. N/A
- E. This is a development well. All existing roads within a one-mile radius are shown on EXHIBIT "E".
- F. The existing roads need no improvement. Maintenance will be performed as required.

2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E" for the following:

- (1) The maximum width of the running surface of the .3 mile of access road, extending beyond the existing oil field road will be 18'.

- (2) The grade will be 8% (eight percent) or less.
- (3) No turn outs are planned.
- (4) low water crossings (2) will be constructed to assure drainage on road to conform with the natural drainage pattern, as shown on EXHIBIT "E".
- (5) No culverts are needed. No major cuts or fills are anticipated along access road during drilling operation.
- (6) Surfacing materials will be native soil.
- (7) No gates, cattle guards, or fence cuts are needed.
- (8) The new access road to be constructed was staked and centerline flagged, as shown on EXHIBIT "E".

3. Location of Existing Wells

For all existing wells within a one mile radius of development well, see EXHIBIT "F".

- (1) There are no water wells within a one-mile radius of this location.
- (2) There are no abandoned wells in this one-mile radius.
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are ten producing wells within this one-mile radius.
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

A. Within a one-mile radius of location the following existing facilities are owned or controlled by lessee/operator:

- (1) Tank Batteries: None
- (2) Production Facilities: None
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None

- (6) Disposal Lines: None
- B. If the well is productive, new facilities will be as follows:
  - (1) Production facilities will be located on solid ground of cut area of drill pad, as shown on EXHIBIT "G".
  - (2) All well flow lines will be buried and will be on the well site and battery site.
  - (3) Facilities will be 290 feet long and 100 feet wide.
  - (4) All construction materials for battery site and pad will be obtained from site. No additional material from outside sources is anticipated.
  - (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with B.L.M. stipulations.

5. Location and Type of Water Supply

- A. The source of water will be the San Juan River, located approximately 25 miles North of location, as shown on EXHIBIT "E".
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling or constructing access roads into the drilling location unless well is productive. The surface soil materials will be sufficient or will be purchased from Dirt Contractor as needed.
- B. No construction materials will be taken off Federal land.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit.
- (2) Drilling fluids will be handled in the reserve pit.

- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed.
- (4) Chemical facilities will be provided for human waste.
- (5) Garbage, waste, salts and other chemicals produced during drilling or testing will be handled in trash/burn pit. Drill fluids, water, drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "H". The trash/burn pit will be totally enclosed with small mesh wire to prevent wind scattering trash before being burned or buried. Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until the pit has dried and is filled.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) EXHIBIT "G" is the Drill Pad Layout as staked, with elevations, by Powers Elevation of Durango, Colorado. Cuts and fills have been drafted to visualize the planned cut across the location spot and the deepest part of the pad. Topsoil will be stockpiled per BLM specifications determined at time of pre-drill inspection.
- (2) EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, trash/burn pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a trailer on site.
- (3) EXHIBIT "G" is a diagram showing the proposed production facilities layout.
- (4) The reserve pits will not be lined.

10. Plans for Restoration

- (1) Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.

- (2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BLM. Revegetation is recommended for road area, as well as around drill pad.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and cleanup are accomplished.
- (4) If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Fall, 1980, unless requested otherwise.

11. Other Information

- (1) The soil is sandy. No distinguishing geological features are present. The area is covered with cactus, sagebrush, pinon pine, cedar, sand sage, and native grass. There are livestock, rabbits, and deer in the area. The topography is very rough, generally dipping North.
- (2) The primary surface use is for grazing. The surface is owned by the U.S. Government.
- (3) The closest live water is the San Juan River at Blanco, approximately 25 miles North of location, as shown on EXHIBIT "E".  
  
The closest occupied dwelling is located along the Blanco Canyon Wash, approximately 2 miles Northwest of the proposed site, as shown on EXHIBIT "E<sub>1</sub>".  
  
There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.
- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about December 1, 1979. It is anticipated that the casing point will be reached within 30 days after commencement of drilling.

12. Lessee's or Operator's Representative

George Lapaseotes  
Agent Consultant for  
John H. Hill & Gordon L. Llewellyn  
600 South Cherry Street  
Suite 1201  
Denver, Colorado 80222  
Phone (303) 321-2217

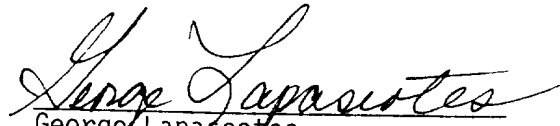
John H. Hill & Gordon Llewellyn  
Suite 140 Campbell Centre  
8350 N. Central Expressway  
Dallas, Texas 75206  
Phone (214) 692-7021

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 John H. Hill & Gordon Llewellyn and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

10-29-79

  
George Lapaseotes  
Agent Consultant for  
John H. Hill & Gordon Llewellyn

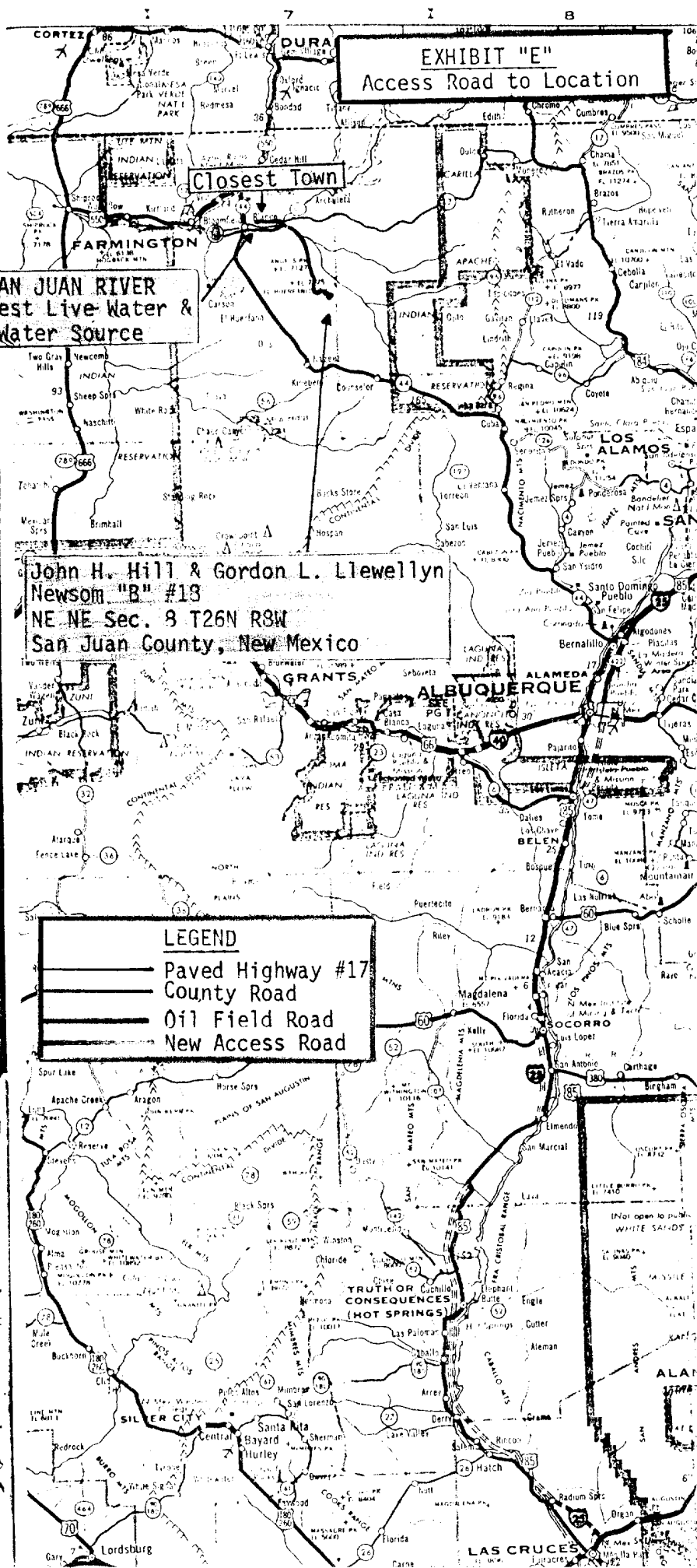
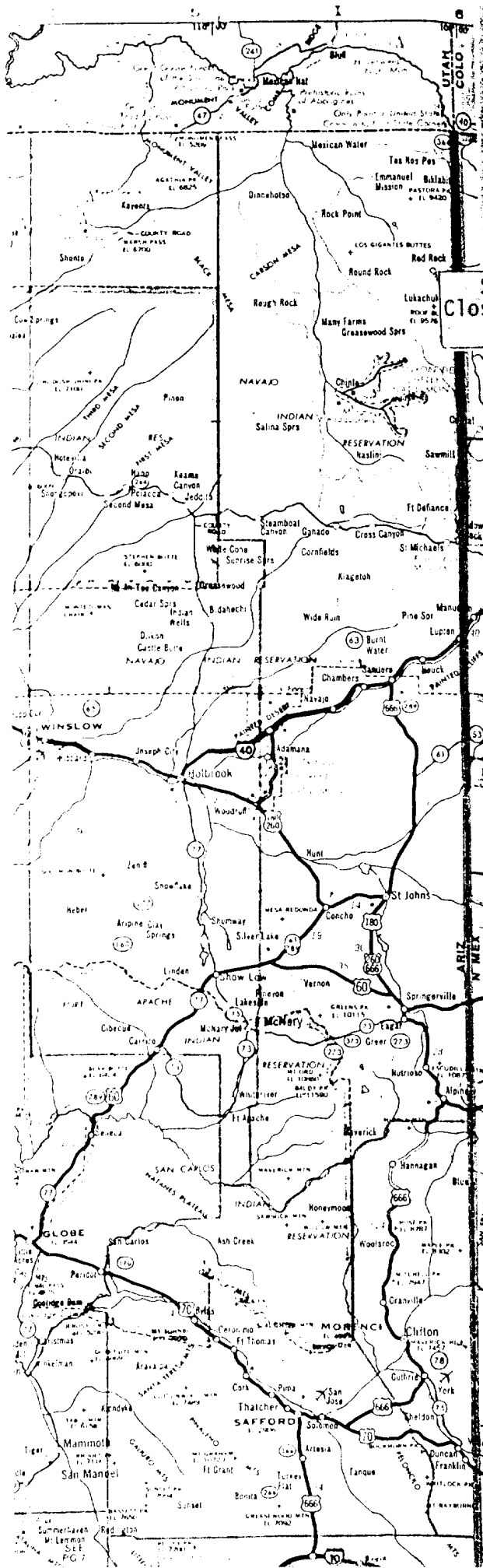


EXHIBIT "E"  
Access Road to Location

Closest Town

SAN JUAN RIVER  
Closest Live Water &  
Water Source

John H. Hill & Gordon L. Llewellyn  
Newsom "B" #13  
NE NE Sec. 9 T26N R3W  
San Juan County, New Mexico

LEGEND

- Paved Highway #17
- County Road
- Oil Field Road
- New Access Road

EXHIBIT "E"  
Access Road to Location

TO BLANCO

BLANCO

CANYON ROAD

Closest Dwelling

Low Road Crossing

John H. Hill & Gordon L. Llewellyn  
Newsom "B" #18  
NE NE Sec. 8 T26N R3W  
San Juan County, New Mexico

LEGEND  
County Road  
Oil Field Road  
New Access Road

SAN JUAN CO  
RIO ARriba

SAN JUAN CO  
RIO ARriba



EXHIBIT "F"  
Radius Map of Field

403

CANYON

BLANCO

John H. Hill & Gordon L. Llewellyn  
Newsom "B" #18  
NE NE Sec. 8 T26N R8W  
San Juan County, New Mexico

SO. V. G. CORP.

ONE-MILE RADIUS

6140' DF  
2076'

6461' DF  
2395'

T  
26  
N

R 8 W

LEGEND

- |                       |                      |
|-----------------------|----------------------|
| ○ LOCATION            | ✱ ABANDONED OIL WELL |
| ✱ DRY HOLE            | ✱ GAS WELL           |
| ● OIL WELL            | ✱ ABANDONED GAS WELL |
| △ TRIANGULATION POINT | ☒ WATER WELL         |

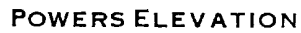
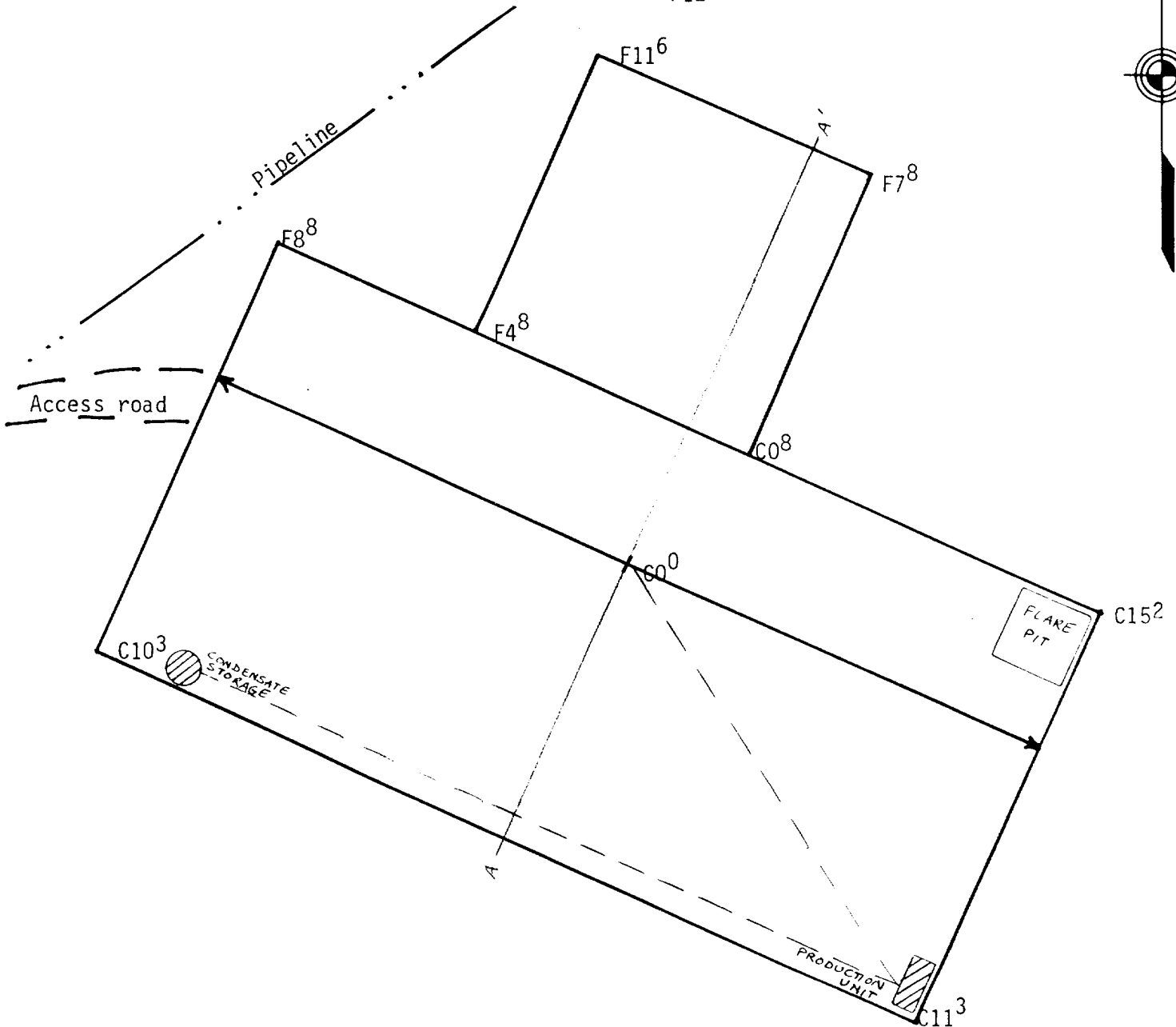
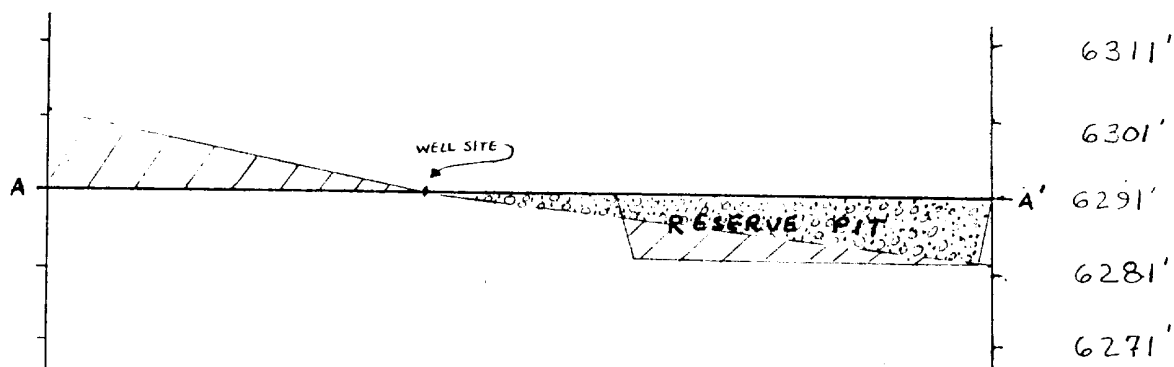


EXHIBIT "G"  
Drill Pad Layout &  
Production Facilities



John H. Hill & Gordon L. Llewellyn  
Newsom "B" #18  
895'FNL & 895'FEL  
Sec. 8 T26N R8W  
San Juan County, New Mexico

EXHIBIT "G<sub>1</sub>"  
Drill Pad Cut-Fill  
Cross-Section



1cm. = 10'

1" = 50'

SCALE

LEGEND :

original surface	-----
cut	/////
fill	0.0.0
pad surface	_____



POWERS ELEVATION

John H. Hill & Gordon L. Llewellyn  
Newsom "B" #18  
895' FNL & 895' FEL  
Sec. 8 T26N R8W  
San Juan County, New Mexico

EXHIBIT "H"  
Drill Rig Layout

