

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

Supron Energy Corporation c/o John H. Hill et al

3. ADDRESS OF OPERATOR

Suite 020 Kysar Building, 300 West Arrington

Farmington, New Mexico 87401 Attn: Lura Wallis

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

At surface

1730' FNL & 1520' FEL (SW NE)

At proposed prod. zone

Same

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

6.3 miles north of La Plata, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drilg. unit line, if any)

1520'

18. DISTANCE FROM PROPOSED LOCATION*

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

16. NO. OF ACRES IN LEASE

2510.69

19. PROPOSED DEPTH

7000'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

6017' GR

22. APPROX. DATE WORK WILL START*

April 1, 1981

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" New	26# H-40 ST&C	300'	3 stage - surface to 3300'
7-7/8"	5 1/2" New	20# K-55 ST&C	7000'	3300 to 5400' and 5400' to total depth (sufficient cement to cover Ojo Alamo).

1. Drill 12 1/4" hole and set 8-5/8" surface casing to 300' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 7-7/8" hole to 7000'.
3. Run tests if warranted and run 5 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed. This action is subject to administrative appeal pursuant to 30 CFR 290.

EXHIBITS ATTACHED

- | | |
|-------------------------|--|
| "A" | Location and Elevation Plat |
| "B" | The Ten-Point Compliance Program |
| "C" | The Blowout Preventer Diagram |
| "D" | The Multi-Point Requirements for |
| "E" & "E ₁ " | Access Road Maps to Location |
| "F" | Radius Map of Field |
| "G" | Drill Pad Layout, Production Facilities & Cut-Fill Cross-Section |
| "H" | Drill Rig Layout |

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 Manager Exploration &
Production

DATE 14 November 1980

(This space for Federal or State office use)

APPROVED

PERMIT NO.

AS AMENDED

APPROVAL DATE

APPROVED BY

TITLE

DATE

DEC 23 1980
James F. Sims
DISTRICT ENGINEER

*See Instructions On Reverse Side

F

30-045-24766

12-29-80

F. Loc. 1730/N;1520/E Elev. 6017 GL Spd. 4-25-81 Comp. TD 5-806 PB
 Casing S. 8 5/8 @ 323 W 250 Sx. Int. @ W Sx. Pr. 4 1/2 @ 4485 W 1965 Sx. T. @
 Csg. Perf. Prod. Stim. 577

T
R
A
N
S

I.P. <u> </u> BO/D <u> </u> MCF/D After <u> </u> Hrs. <u> </u> SICP <u> </u> PSI After <u> </u> Days GOR <u> </u> Grav. <u> </u> 1st Del. <u> </u> s <u> </u>											
TOPS		NITD		Well Log	TEST DATA						
Kirtland		C-103	X	Plat X	Schd.	PC	Q	PW	PD	D	Ref.No.
Fruitland		C-104		Electric Log							
Pictured Cliffs				C-122							
Cliff House		Ditr		Dfa							
Menefee		Datr		Dac							
Point Lookout		PB to 4590-8-13-81									
Manos											
Gallup											
Sanostee											
Greenhorn											
Dakota											
Morrison											
Entrada											
				E/320							

P
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Bas Dak Co. SJ S 24 T 32NR 13W U G Oper. Supron Energy

Lse. USA

No. 1M

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT
EXHIBIT "A" - Location and Elevation Plat
All distances must be from the outer boundaries of the Section

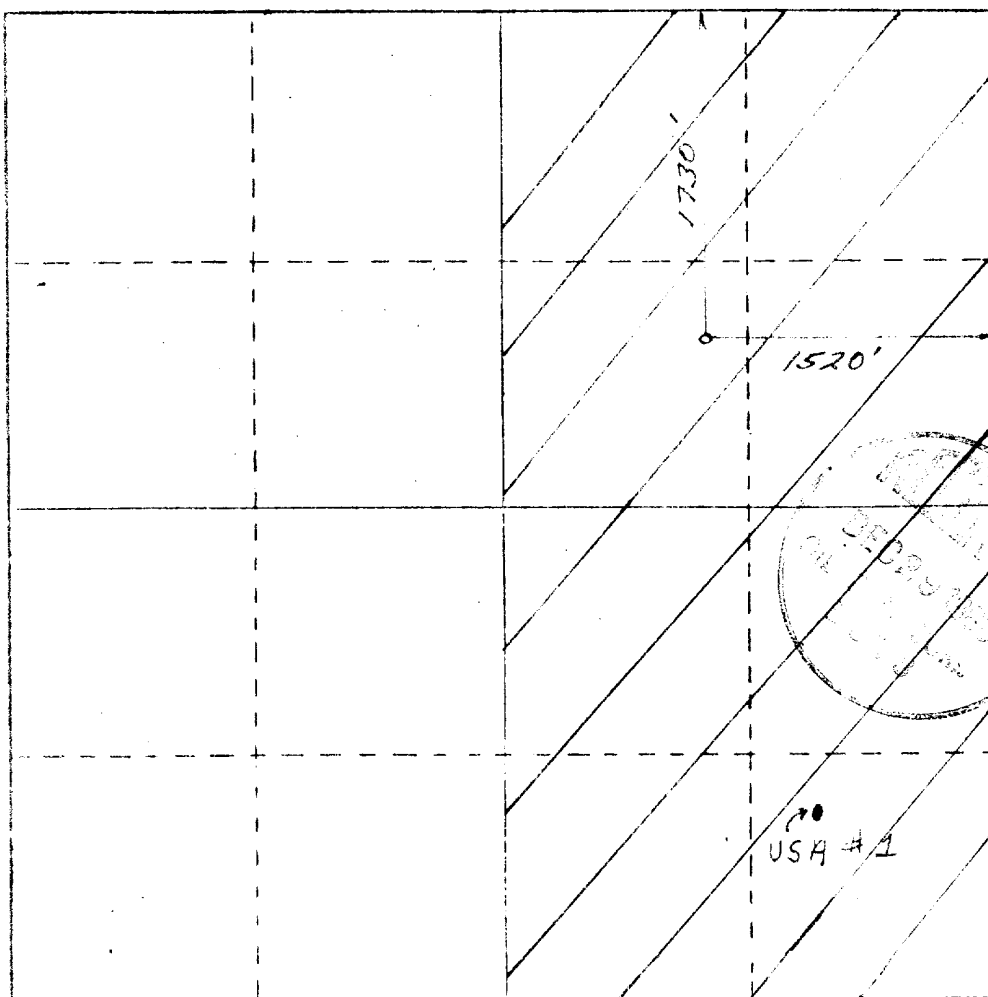
Form O-107
Supersedes O-128
Effective 1-1-65

Owner Supron Energy		Lease USA/SF-078818-A		Well No. USA #1-M	
Section G	Section 24	Township 32 North	Range 13 West	County San Juan	
Initial Location of Well: 1730 feet from the North line and 1520 feet from the East line.					
Land Elev. 6017'	Producing Formation Mesa Verde - Dakota		Foot Basin Dakota		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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**
V. Pres. Powers Elevation

Position
Agent Consultant for
Company
Supron Energy Corporation
Date
24 November 1980

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.

16 24 NOV 80
Date Surveyed
George Lapaseotes
Registered Land Surveyor
No. **6844**
State of **NEW MEXICO**

300 600 900 1200 1500 1800 2100 2400 2700 3000 3300 3600 3900 4200 4500 4800 5100 5400 5700 6000

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
Supron Energy Corporation
USA #1-M
SW NE Sec. 24 T32N R13W
1730' FWL & 1520' FEL
San Juan County, New Mexico

1. The Geologic Surface Formation

The geologic formation is the Kirtland.

2. Estimated Tops of Important Geologic Markers

Fruitland	1712'
Pictured Cliffs	2191'
Lewis	2400'
Chacra	3015'
Cliffhouse	3910'
Menefe	4155'
Point Lookout	4690'
Mancos	4940'
Gallup	5900'
Greenhorn	6690'
Graneros	6751'
Dakota	6860'
Morrison	6990'
Total Depth	7000'

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

Fruitland	1712'	Coal
Pictured Cliffs	2191'	Gas
Lewis	2400'	Shale
Chacra	3015'	Shale
Cliffhouse	3910'	Gas
Menefe	4155'	Gas
Point Lookout	4690'	Gas
Mancos	4940'	Sandy Shale
Gallup	5900'	Shale
Greenhorn	6690'	Sand
Graneros	6751'	Shale
Dakota	6860'	Gas
Morrison	6990'	Shale

4. The Proposed Casing Program

HOLE SIZE	INTERVAL	SECTION LENGTH	SIZE (OD)	WEIGHT, GRADE & JOINT	NEW OR USED
12 $\frac{1}{4}$ "	0-300'	300'	8-5/8"	26# H-40 ST&C	New
7-7/8"	0-7000'	7000'	5 $\frac{1}{2}$ "	20# K-55 ST&C	New

Cement Program - 3 Stage Cementing

First Stage - Sacks of mix required and additives to fill from 7000' to approximately 5400'. Slurry 50-50 poz cemnt, 2% gel, 2% Calcium Chloride, .06% - D-19 Aquatrol.

Second Stage - From 5400' to 3300' with 35% excess on filler cement. Slurry to be 50-50 poz cement, 6% gel, 2% Calcium Chloride followed by 50 sacks neat cement Class "B".

Third Stage - From 3300' to surface with 100% excess. Slurry to be 50-50 poz cement, 2% gel, 2% Calcium Chloride for 500' from 3300' to 2800' then from 2800' to surface 50-50 poz and cement, 2% Calcium Chloride, 6% gel (sufficient to cover Ojo Alamo sandstone).

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 half of 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 Characteristic of the Proposed Circulating Muds

This will be drilled with air and fresh water gel 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.

DEPTH	TYPE	WEIGHT #/gal.	VISCOSITY sec./gal	FLUID LOSS cc
0-300'	Fresh Water-Gel	8.4 - 9.5	35 - 45	Less than 10
300'-4200'	Fresh Water-Gel	8.4 - 9.5	35 - 45	Less than 10
4200'-T.D.	Air	-----	-----	-----

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 mud logging unit nor 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 on 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 April 1, 1981 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

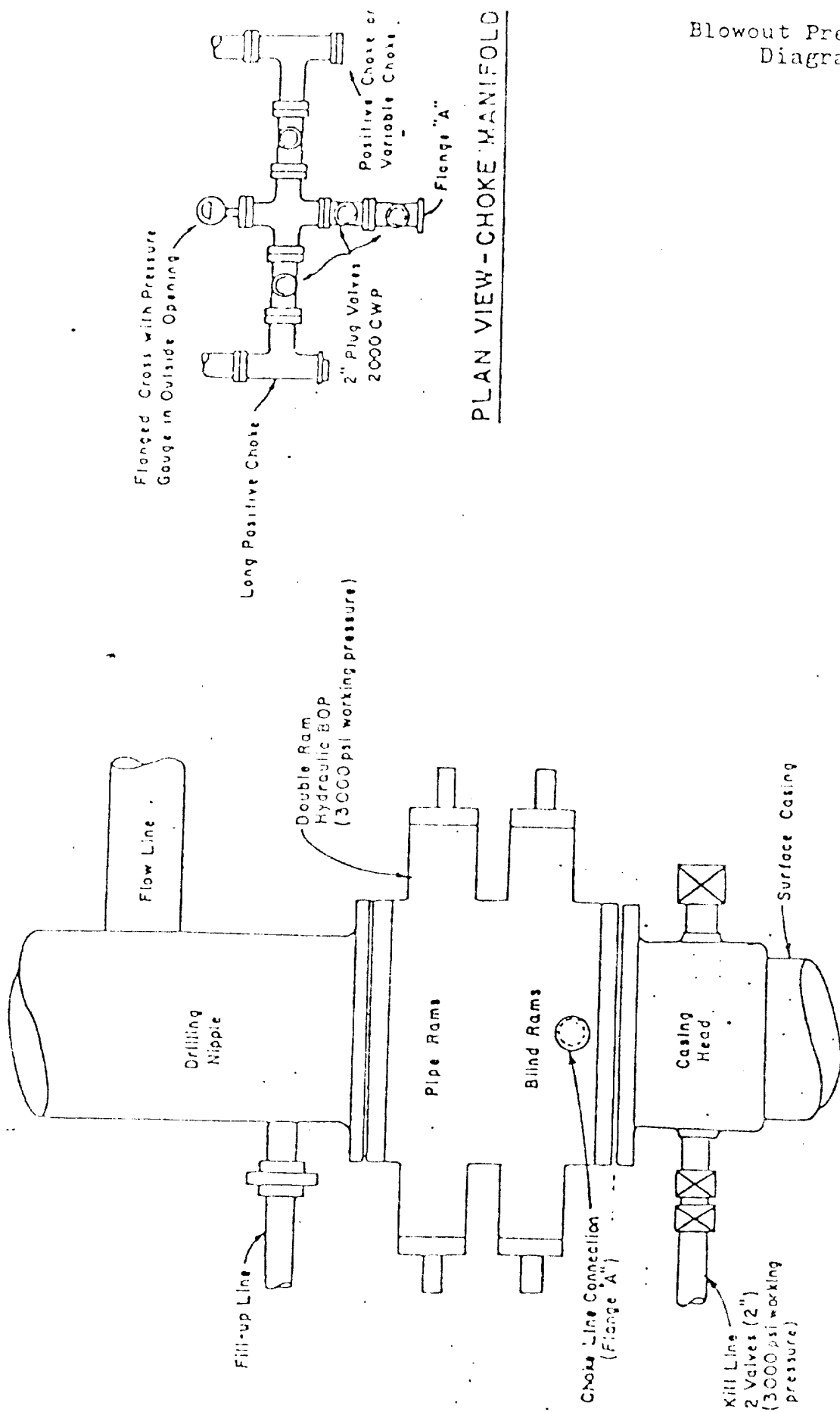


EXHIBIT "D"

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

Attached to Form 9-331C
Supron Energy Corporation
USA #1-M
SW NE Sec. 24 T32N R13W
1730' FNL & 1520' 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 La Plata, New Mexico is 6.3 miles. Proceed East 0.8 mile on State Highway #173; thence North 2.4 miles on oil field road; thence East 0.5 mile North and East 2.3 miles; thence South 0.3 mile on proposed access road to the location as shown on EXHIBIT "E".
- C. All roads to location are color-coded on EXHIBIT "E". A new access road 0.3 mile from the existing gravel road will be required, as shown on EXHIBIT "E".
- D. N/A
- E. This is a development well. All existing roads within a one-mile radius are shown on EXHIBIT "E".
- F. Blading is required on the last half mile of Sec. 24. The grade is 1-3%.

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 0.3 mile of access road as you leave the existing oil field road will be 18 feet. If well is a producer, total disturbed area will be 25 feet.
- (2) The grade will be 1-3%.
- (3) No turn outs are planned.
- (4) Appropriate water bars will be constructed to assure drainage off location to conform with the natural drainage pattern.
- (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, cattleguards or fence cuts are needed.
- (8) The new access road to be built has been staked during the time of staking the location, and is 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 is one abandoned well 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 two 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: Yes. Supron has producing wells in the area.
 - (2) Production Facilities: Yes. Same as above.
 - (3) Oil Gathering Lines: None.
 - (4) Gas Gathering Lines: Yes. Supron has producing wells in the area.
 - (5) Injection Lines: None.
 - (6) Disposal Lines: None.
- B. If production is obtained, 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 300 feet long and 250 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 Source

- A. The source of water will be the San Juan River, 15 miles South of the 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 and access roads into the drilling location unless well is productive. The surface soil materials will be sufficient or will be purchased from the 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 waters or other noxious fluids will be cleaned up and removed.
- (4) Chemical toilet facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and 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 to the deepest part of the pad. Topsoil will be stockpiled per B.L.M. 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, and mud pits. 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 to an approved sanitary landfill 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 B.L.M. 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 is accomplished.

- (4) If any oil is on the pits and is not immediately removed or burned 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 Spring 1982, unless requested otherwise.

11. Other Information

- (1) The soil is a sandy-clay loam. The area is covered with grasses, cactus, and sage. There are deer, rabbits, and reptiles in the area. The topography is gently rolling hills and plains. The location is on flat terrain with drainage into the Southeast.
- (2) The primary surface use is for oil production. The surface is owned by the U.S. Government.
- (3) The closest live water is La Plata River 5 miles West of the location, as shown on EXHIBIT "E".
 - * The closest occupied dwelling is 6 miles Southwest of the location, as shown on EXHIBIT "E".

There were no archaeological, historical, or other cultural artifacts apparent to Powers' surveyors during their staking of this location. However, a complete, standard cultural resource (including archaeological) survey will be conducted by a qualified archaeologist, and a report submitted to the B.L.M., prior to any surface disturbance.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about April 1, 1980. 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
Supron Energy Corporation
600 South Cherry Street
Suite 1201
Denver, Colorado 80222
Phone (303) 321-2217

Steve Connor
Supron Energy Corporation
c/o John H. Hill, et al.
The Lakes At Bent Tree
Suite 210
17400 Dallas Parkway
Dallas, Texas 75252
Phone (214) 385-9100

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 Supron Energy Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

11-25-80

George Lapaseotes
George Lapaseotes
Agent Consultant for
Supron Energy Corporation

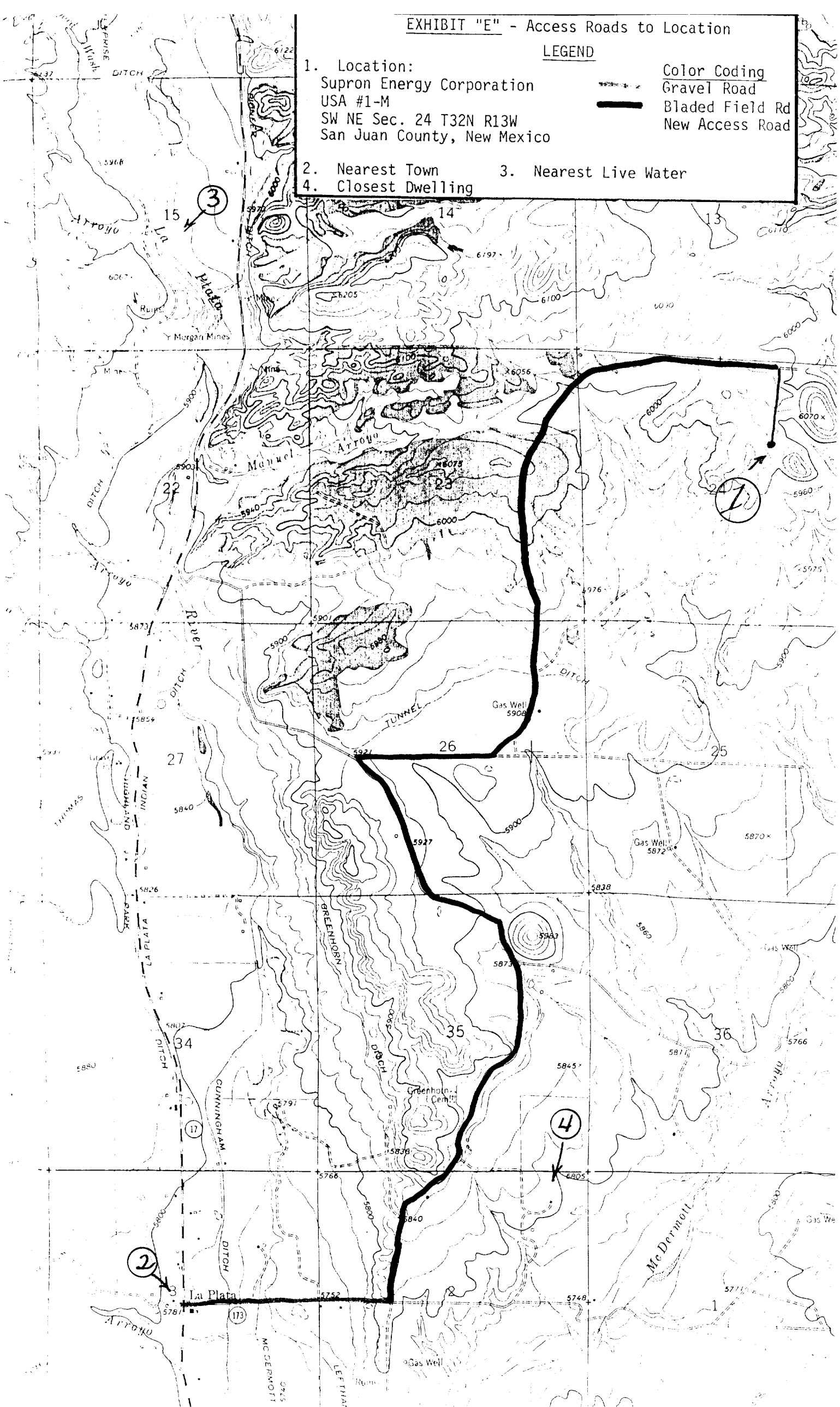
EXHIBIT "E" - Access Roads to Location

LEGEND

1. Location:
Supron Energy Corporation
USA #1-M
SW NE Sec. 24 T32N R13W
San Juan County, New Mexico

Color Coding
Gravel Road
Bladed Field Rd
New Access Road

2. Nearest Town
4. Closest Dwelling
3. Nearest Live Water



SAN JUAN

EXHIBIT "F"
Radius Map of Field

CO.

One-mile
RADIUS

USA #1-M

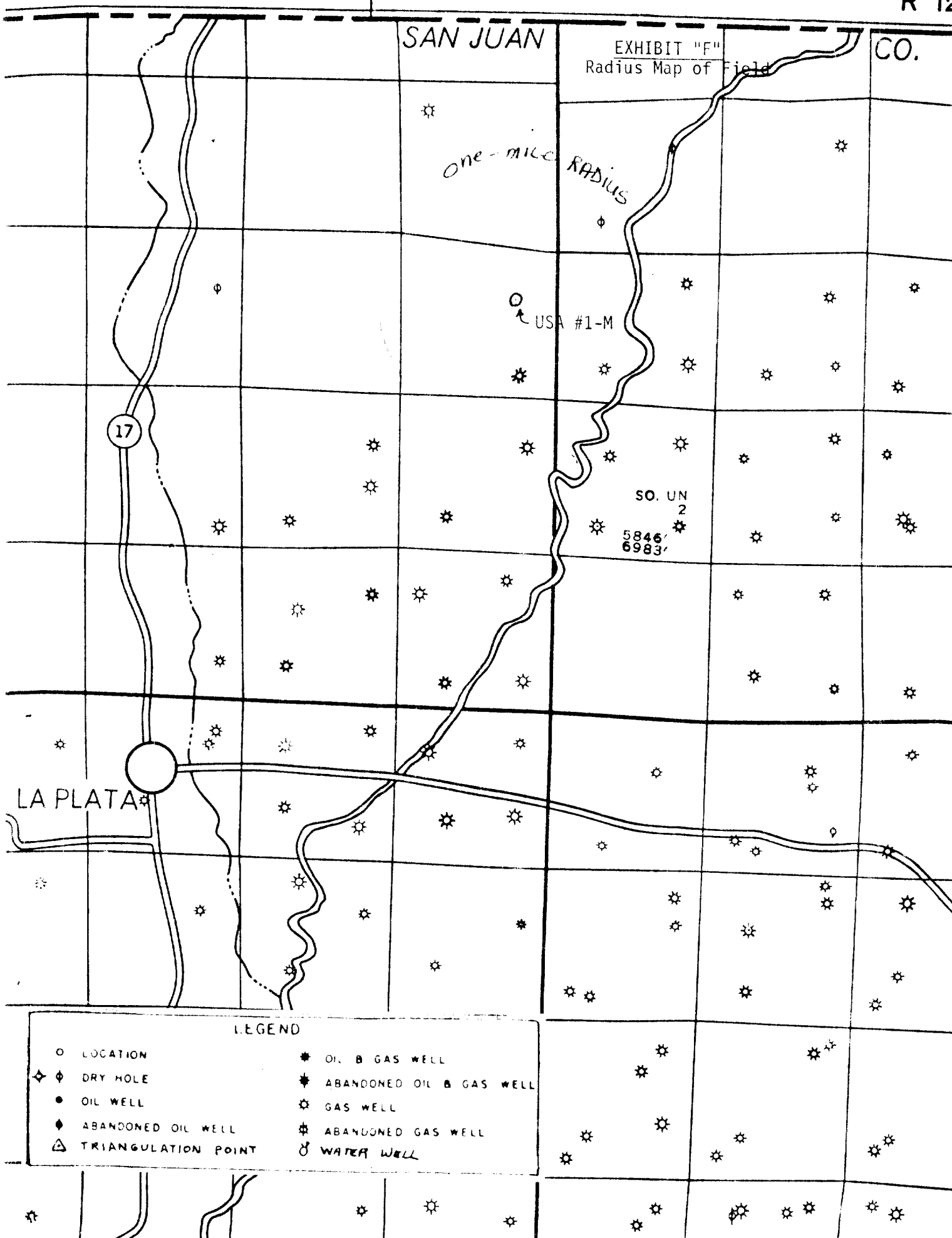
SO. UN
25846'
6983'

17

LA PLATA

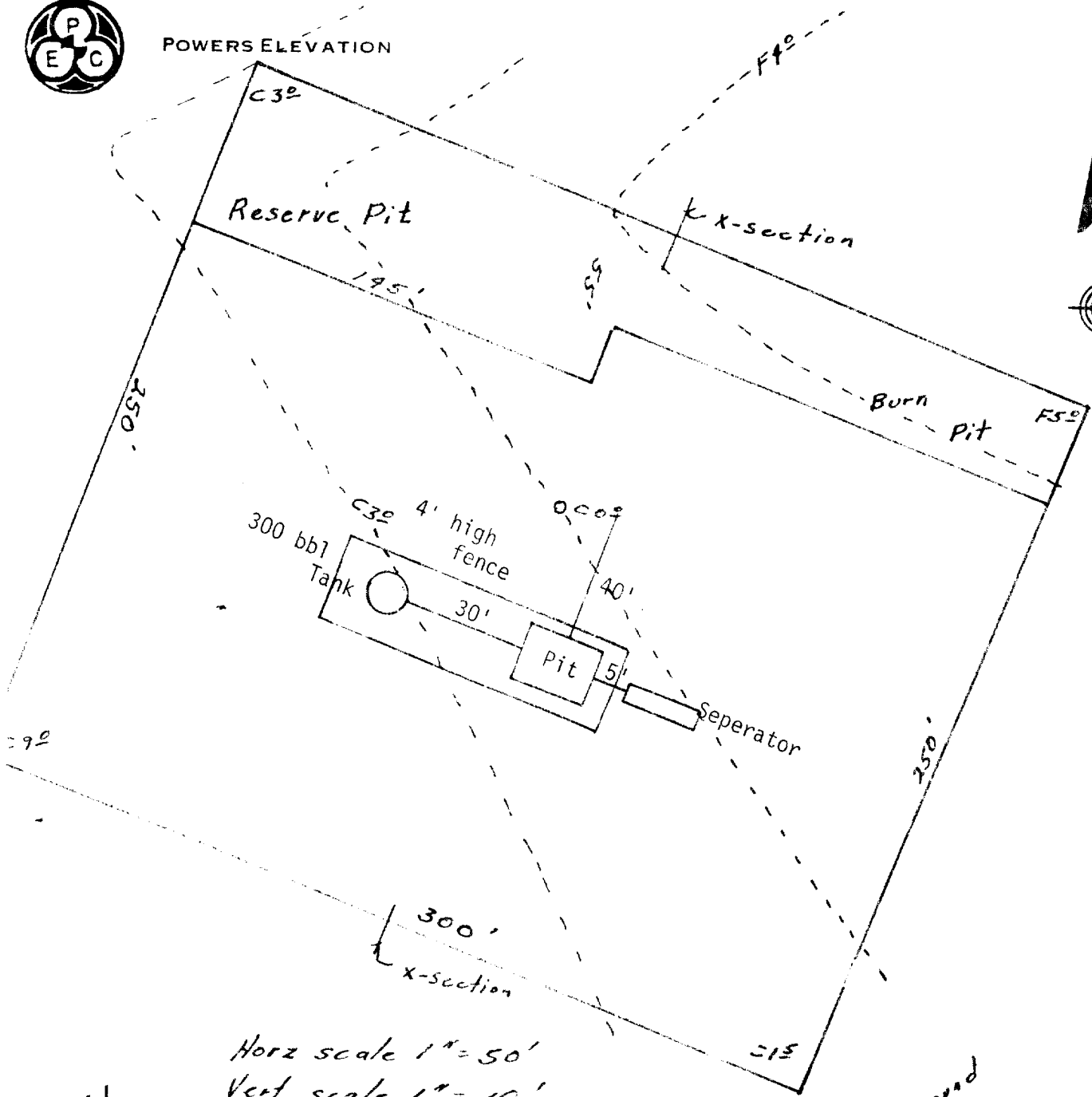
LEGEND

- | | |
|-----------------------|----------------------------|
| ○ LOCATION | ★ OIL & GAS WELL |
| ◆ DRY HOLE | ★ ABANDONED OIL & GAS WELL |
| ● OIL WELL | ★ GAS WELL |
| ◆ ABANDONED OIL WELL | ★ ABANDONED GAS WELL |
| △ TRIANGULATION POINT | ♂ WATER WELL |

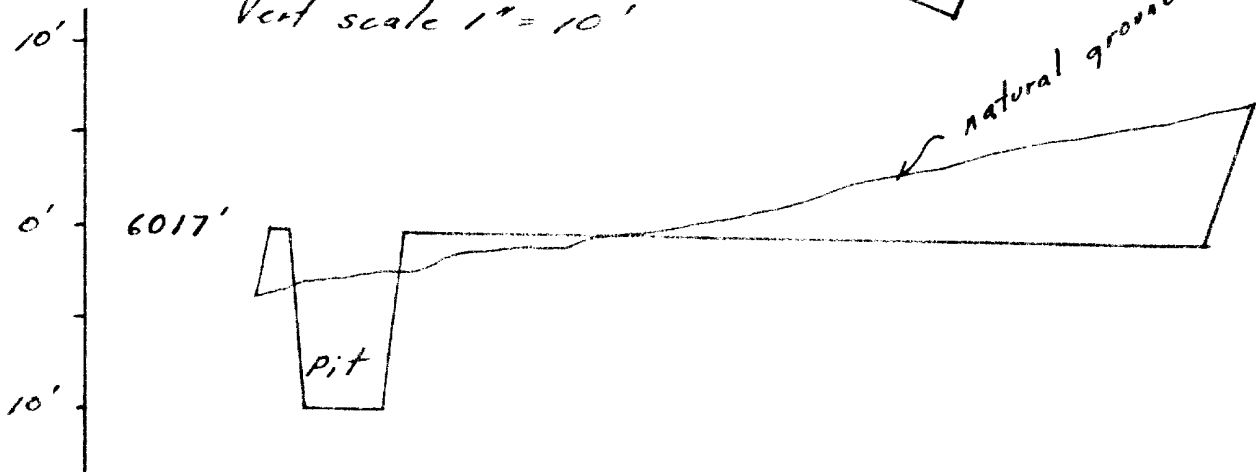




POWERS ELEVATION

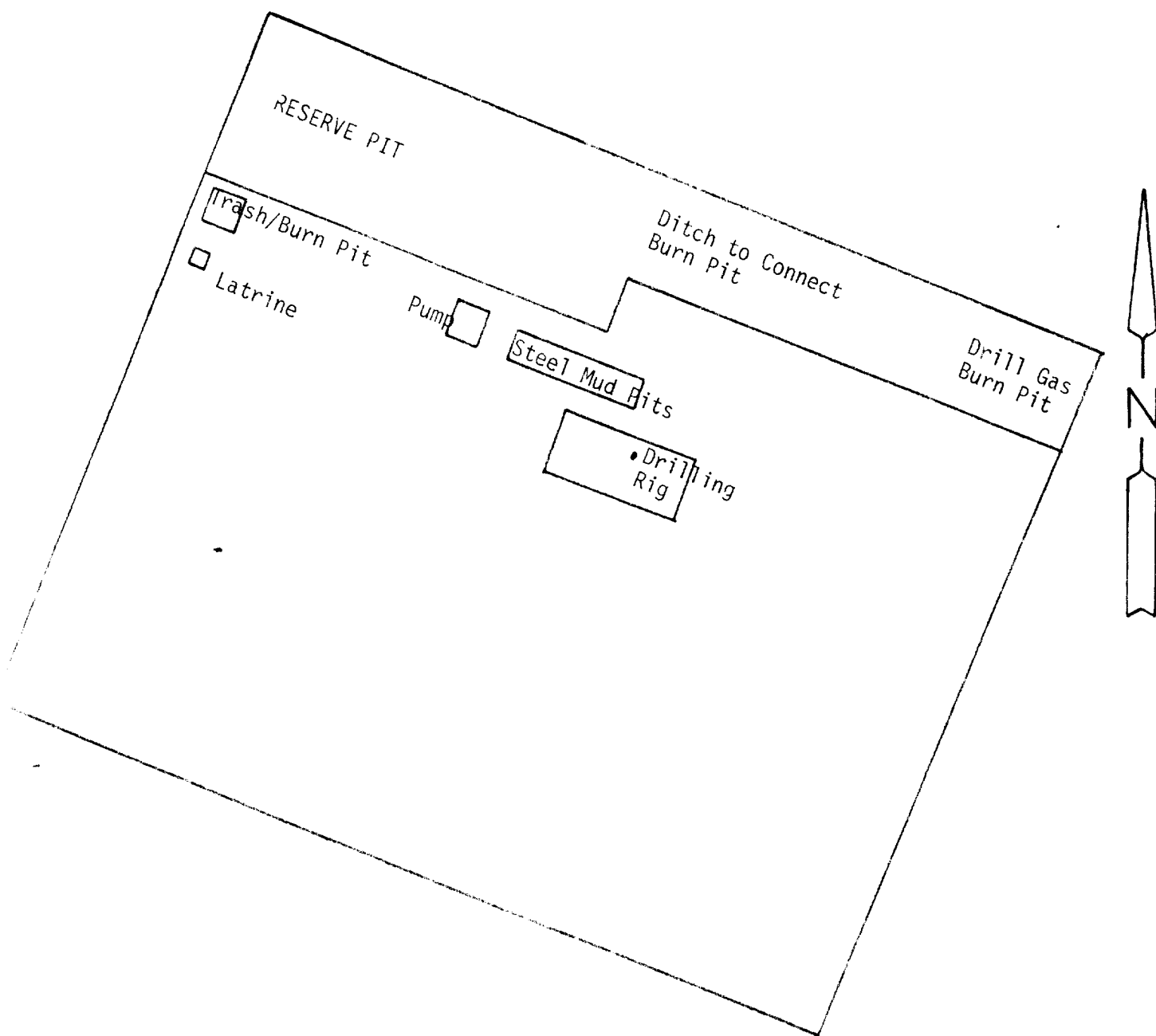


Horz scale $1" = 50'$
 Vert scale $1" = 10'$



Supron Energy Corporation
USA #1-M
San Juan County, New Mexico

EXHIBIT "H"
Drill Rig Layout





POWERS ELEVATION

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

November 17, 1980

✓Steve Connor
John H. Hill
The Lakes at Bent Tree
17400 Dallas Parkway
Dallas, TX 75252

Dear Mr. Connor:

Enclosed are the cultural resource survey reports for the following locations:

Supron Taliaferro #7 and #5-M,
 U.S.A. #1-M, #2-M, and #3-M
 McCord 7-E

A BLM Class-III pedestrian survey and inspection of existing records were performed for these locations. No cultural resources were found either in the literature or pertinent site files, or during our field surveys.

In view of this lack of cultural resources and the consequent lack of adverse impact (that is: no effect) upon National Historic Register eligible resources, we recommend that the projects be allowed to proceed.

If you have any questions regarding these reports, please contact Eva Bailey at this office.

Sincerely,

Marcia J. Tate

Marcia J. Tate
Principal Investigator
Assistant Manager, Heritage

MJT:dc

cc: Farmington BLM
Albuquerque BLM
USGS, Farmington
State Archaeologist, Curtis Schaafsma
SHPO, Tom Merlan
Brian O'Neil, District Archaeologist, Grand Junction, CO

enclosures



POWERS ELEVATION

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

PROJECT IDENTIFICATION: A cultural resource survey for Supron, U.S.A. #1-M, well pad and access, San Juan County, New Mexico.

ANTIQUITIES PERMIT NO: 79-NM-111

FILE SEARCH: A file search conducted November 4, 1980, with the Bureau of Land Management, Farmington Resource Area, revealed no sites or surveys for the project area.

MAP REFERENCE: La Plata Quad, 7.5', 1963.

PROPOSED ACTION: The completed well pad will measure 300 feet by 250 feet. The access is a 50 foot wide corridor, approximately one half mile long from its takeoff point, at the end of a bladed road near the quarter section bench mark along the east/west section line between Sections 13 and 24.

LOCATION: 1730 ft. FNL, 1520 ft. FEL; NE/SW/NE, Section 24, T32N, R13W.

DATE OF INVESTIGATION: November 4, 1980.

PERSONNEL: Brian O'Neil, Field Investigator; Bruce Rippeteau and Marcia Tate, Principal Investigators.

ENVIRONMENT: The general physiography is rolling hills and ridges on the first terrace above the La Plata River. This area forms the divide between McDermott Arroyo to the east and the La Plata River to the west.

The well pad is situated in a saddle between a high hill to the southeast and a low ridge to the west, near the head of an unnamed intermittent tributary to McDermott Arroyo. Exposure is northeast. The elevation is approximately 6010 feet.

The drainage pattern and type is dendritic/intermittent. The nearest water is an unnamed intermittent tributary to McDermott Arroyo, approximately 800 feet northeast. Other available water is the La Plata River, approximately 2½ miles west.

Vegetation cover is 30% with good visibility. The plant community consists of pinon-juniper, sagebrush, mountain mahogany, winterfat, cheat grass, snakeweed and prickly pear cactus.

The soil is light brown to tan, fine, sandy loam mixed with rounded gravels and cobbles. The depth is estimated at 30 meters plus. There is a low potential for buried deposits.

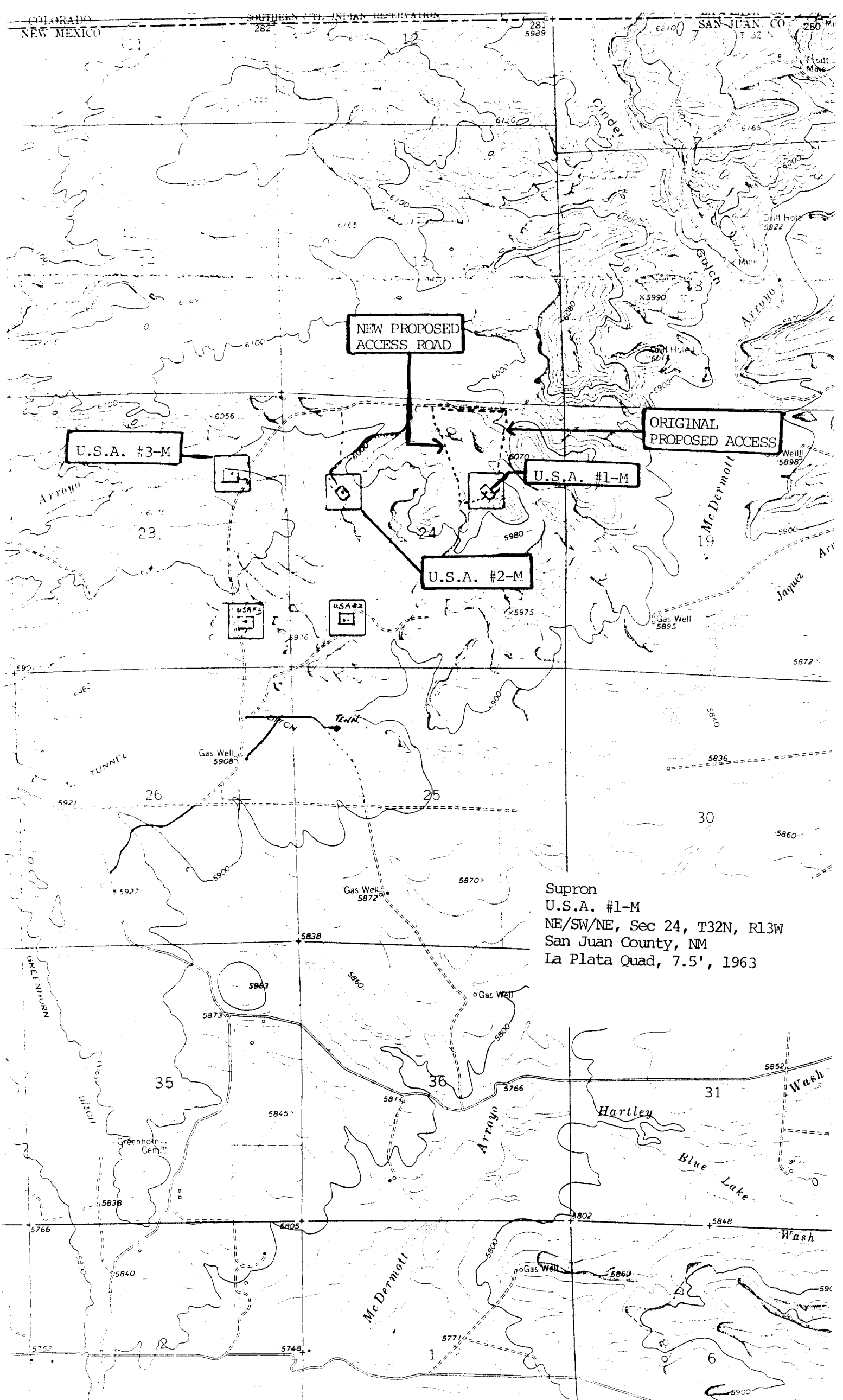
FIELD METHODS: A 10 acre area surrounding the well pad center stake was surveyed in parallel east/west transects at intervals of 20 meters. The access road was surveyed 25 feet on each side of the center flags, for a distance of approximately one half mile from its takeoff point at the end of a bladed road near the quarter section marker, along the east/west section line between Sections 13 and 24.

ADDITIONAL OBSERVATIONS: The original proposed access approached the pad from the north. However, during the pre-drill inspection of October 10, 1980, the inspection team decided to change the access so it will follow an existing two track road along the ridge to the west. Both access roads were inspected for cultural resources and are distinguished on the enclosed map.

RESULTS: No cultural resources were observed.

RECOMMENDATIONS: We recommend that the project be allowed to proceed.

MJT:dc



Supron
U.S.A. #1-M
NE/SW/NE, Sec 24, T32N, R13W
San Juan County, NM
La Plata Quad, 7.5', 1963