

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

3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 At surface
 SE/4 SW/4 500' FSL & 2040' FWL
 At proposed prod. zone
 SE/4 SW/4 500' FSL & 2040' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx 6 1/2 miles west of Cisco, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 500'

16. NO. OF ACRES IN LEASE
 2563.6

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1 1/2 mile

19. PROPOSED DEPTH
 2650

20. ROTARY OR CABLE TOOLS
 Rotary

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

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8" or 7 5/8"	24# or 26.4#	200'	Cement to Surface
7 7/8" or 6 3/4"	5 1/2" or 4 1/2"	15.5# or 10.5#	2650'	100 SXS

Supron Energy Corporation proposes to drill this well as follows:

1. Drill 11" hole to 200'. Run either 8 5/8", 24#, Csg. or 7 5/8", 26.4# csg. and cement to surface.
2. Drill either 7 7/8" or 6 3/4" hole to TD of \pm 2650.
3. Run logs. If warranted, 5 1/2" or 4 1/2" production casing will be run & set @ TD and cemented as necessary.
4. Perforate and stimulate productive zones to establish commercial production.

Supron will drill and operate this well.

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 Dan R. Collins TITLE Operations Assistant DATE Sept. 8, 1978

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

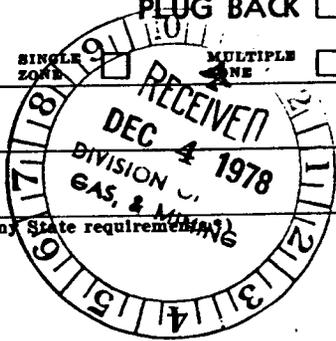
APPROVED BY J.P. Kozla TITLE ACTING DISTRICT ENGINEER DATE DEC 1 1978

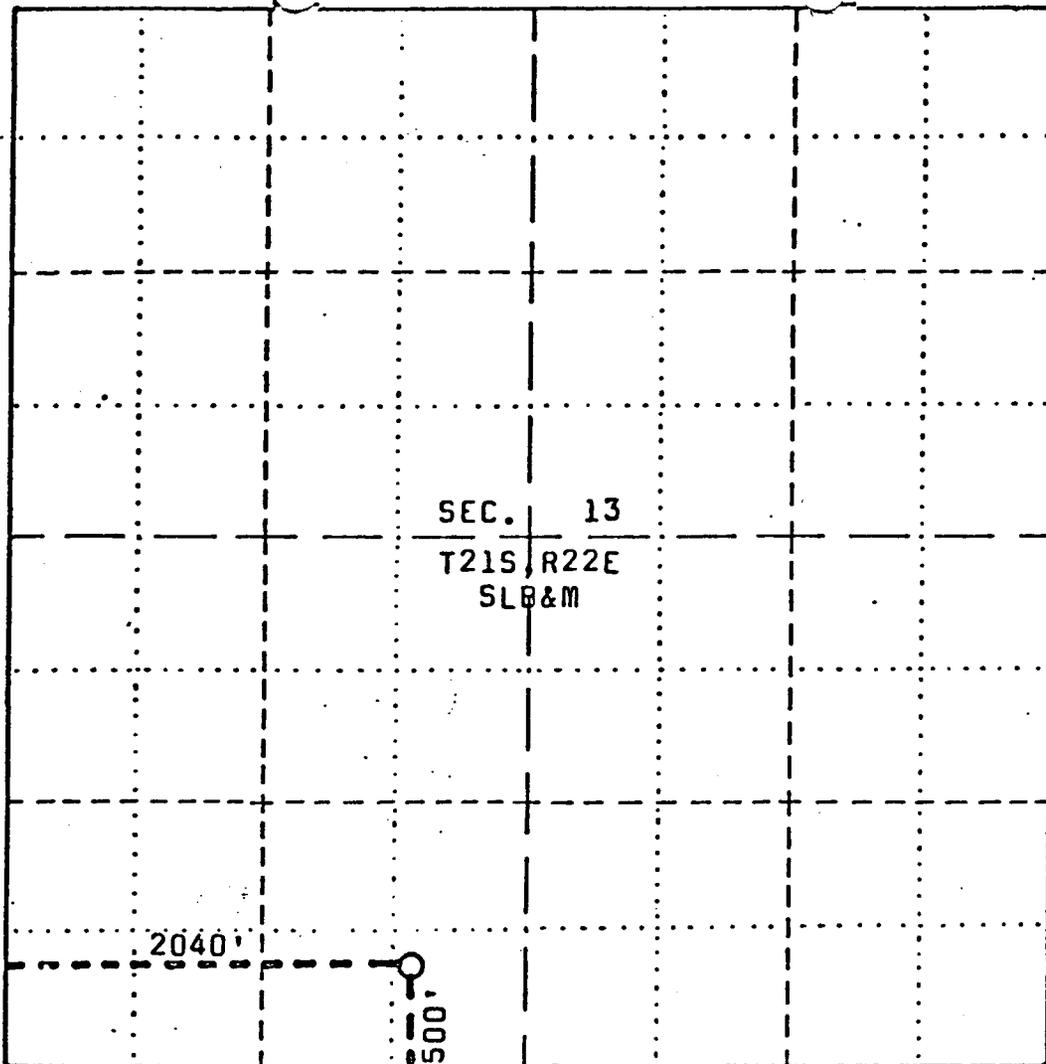
CONDITIONS OF APPROVAL, IF ANY:

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJECT TO ROYALTY (NTL-4)

NOTICE OF APPROVAL

*See Instructions On Reverse Side
 CONDITIONS OF APPROVAL ATTACHED
 TO OPERATOR'S COPY





SEC. 13
T21S, R22E
SLB&M

2040'

500'

SCALE: 1" = 1000'

**SUPRON ENERGY CORPORATION
MOBIL 13-21-22 #1**

Located North 500 feet from the South boundary and East 2040 feet from the West boundary of Section 13, T21S, R22E, SLB&M.

Elev. 4547

Grand County, Utah

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

Udell S. Williams

UTAH R.L.S. NO. 2573

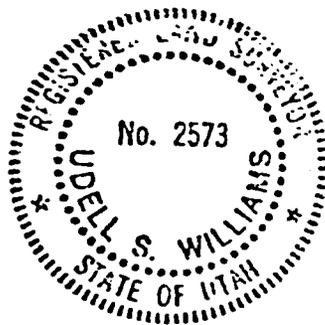


UDELL S. WILLIAMS
751 Road Avenue
GRAND JUNCTION, COLORADO 81501

PLAT OF
PROPOSED LOCATION
SUPRON ENERGY CORPORATION
MOBIL 13-21-22 #1
SEC. 13, T21S, R22E, SLB&M

SURVEYED BY: USW DATE: 8/23/78

DRAWN BY: USW DATE: 8/26/78



SUPRON ENERGY CORPORATION

**BLDG. V, FIFTH FLOOR
10300 NORTH CENTRAL EXPRESSWAY
DALLAS, TEXAS 75231**

**TELEPHONE (214) 691-9141
TWX (910) 861-9117
SUPCO-DAL**

September 8, 1978

**District Engineer
United States Geological Survey
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84138**

Dear Sir:

Listed below, as required for compliance with NTL-6, are the multi-point requirements for a proposed well to be drilled by Supron Energy Corporation in the SE/4 SW/4 of Section 13, Township 21 South Range 22 East, Grand County, Utah. (Federal Lease # U-17962). This well to be known as Supron Energy Corporation's Mobil 13-21-22 #1 well.

1. a.) See attached survey plat for the proposed well site as staked.
b.) The proposed location is approximately 6 1/2 miles West of Cisco, Utah.
c.) See attached map for existing access roads.
d.) Any damage to existing roads as a result of the drilling operations of this well will be repaired by Supron.

2. See attached topographic map for proposed access roads.
 - a.) Proposed access will be approximately 16' wide.
 - b.) Maximum grade will be less than four per cent.
 - c.) There will be no turn outs.
 - d.) For drilling operations, the proposed access will be bladed for marking purposes with a minimum or no drainage provided. If a commercially productive well is established, the road will be up-graded and with drainage provided as necessary.
 - e.) Some cut may be involved in widening the road enough to gain access. No major fills needed.
 - f.) The proposed access road will not be surfaced for drilling operations, other than to ensure passage. If the well is successful, the road will be up-graded and surfaced as necessary, using commercially available materials.

District Engineer
United States Geological Survey
Salt Lake City, Utah 84138

Page 2 - continued

2. g.) No cattle guards or fence cutting will be necessary.
- h.) The proposed access has been staked.
3. There are no existing wells within a one (1) mile radius of the proposed location.
4. a.) There are no existing production facilities within a one (1) mile radius.
- b.) If commercial production is established necessary production equipment will be installed.
- c.) Disturbed areas no longer needed will be re-shaped, top soil re-distributed, and re-vegetated to B. L. M. requirements.
5. No water well will be drilled. Water necessary for this operation will be trucked into the location using available and proposed access.
6. Any construction materials required will be obtained through available commercial sources.
7. Waste materials will be disposed of as follows:
 - a.) Cuttings - contained in an earthen pit and buried after completion of operations.
 - b.) Drilling Fluids - contained in tanks and disposed of in an acceptable manner yet to be determined.
 - c.) Produced Fluids - contained in tanks and disposed of in an acceptable manner yet to be determined.
 - d.) Sewage - approved sanitation facilities will be provided by the drilling contractor and employees required to use them.
 - e.) Garbage and other waste materials will be contained in an adequately fenced trash pit and buried after completion of operations.
 - f.) Area will be cleaned as much as is practical prior to the rig being moved and to be restored to B. L. M. requirements as soon as possible thereafter.
8. There will be no camps or airstrips constructed.

District Engineer
United States Geological Survey
Salt Lake City, Utah 84138

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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 it's contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

September 8, 1978

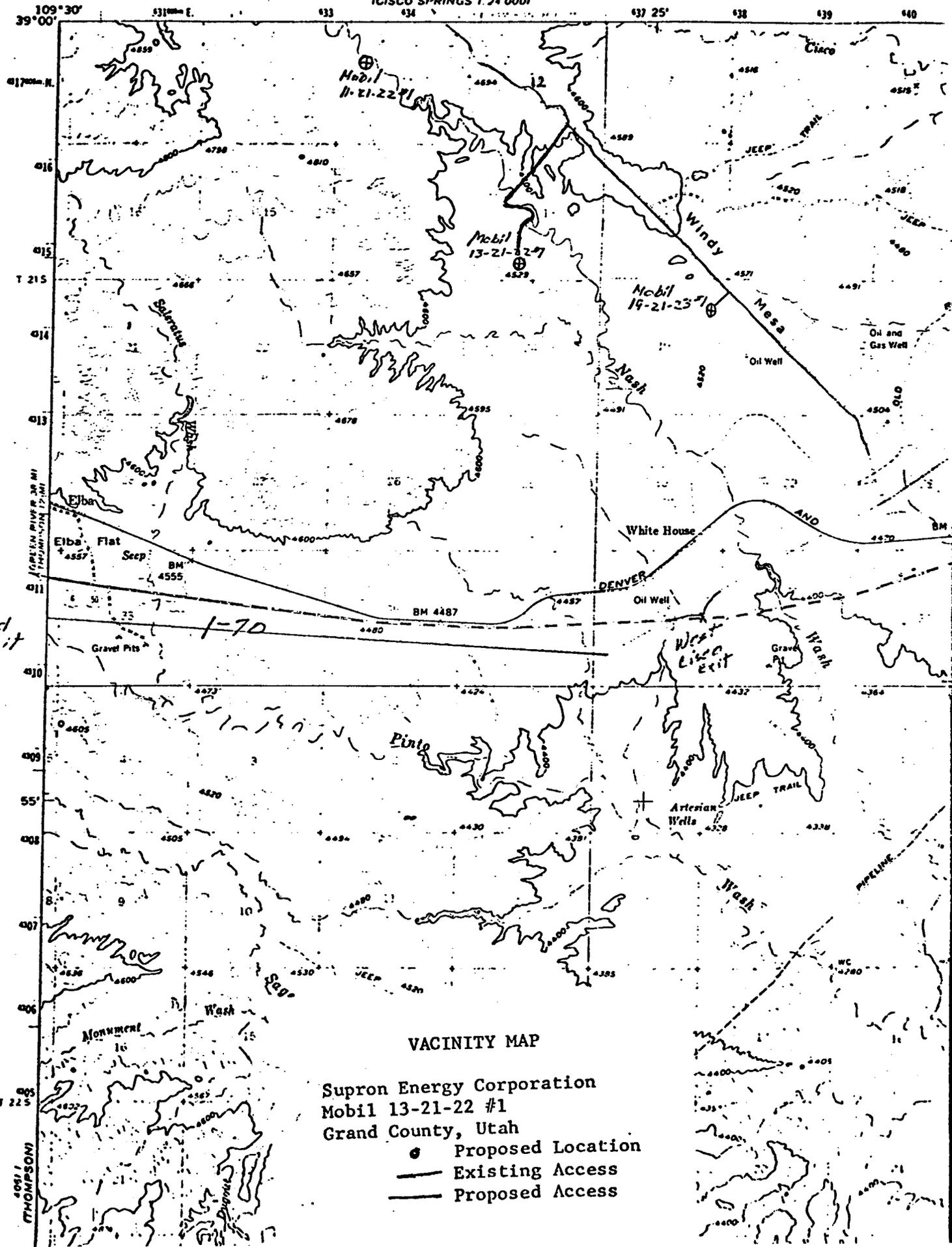
Dan R. Collier
Dan R. Collier
Operations Assistant

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED
ATOMIC ENERGY

4162 III SW
ICISCO SPRINGS 1:24 000'

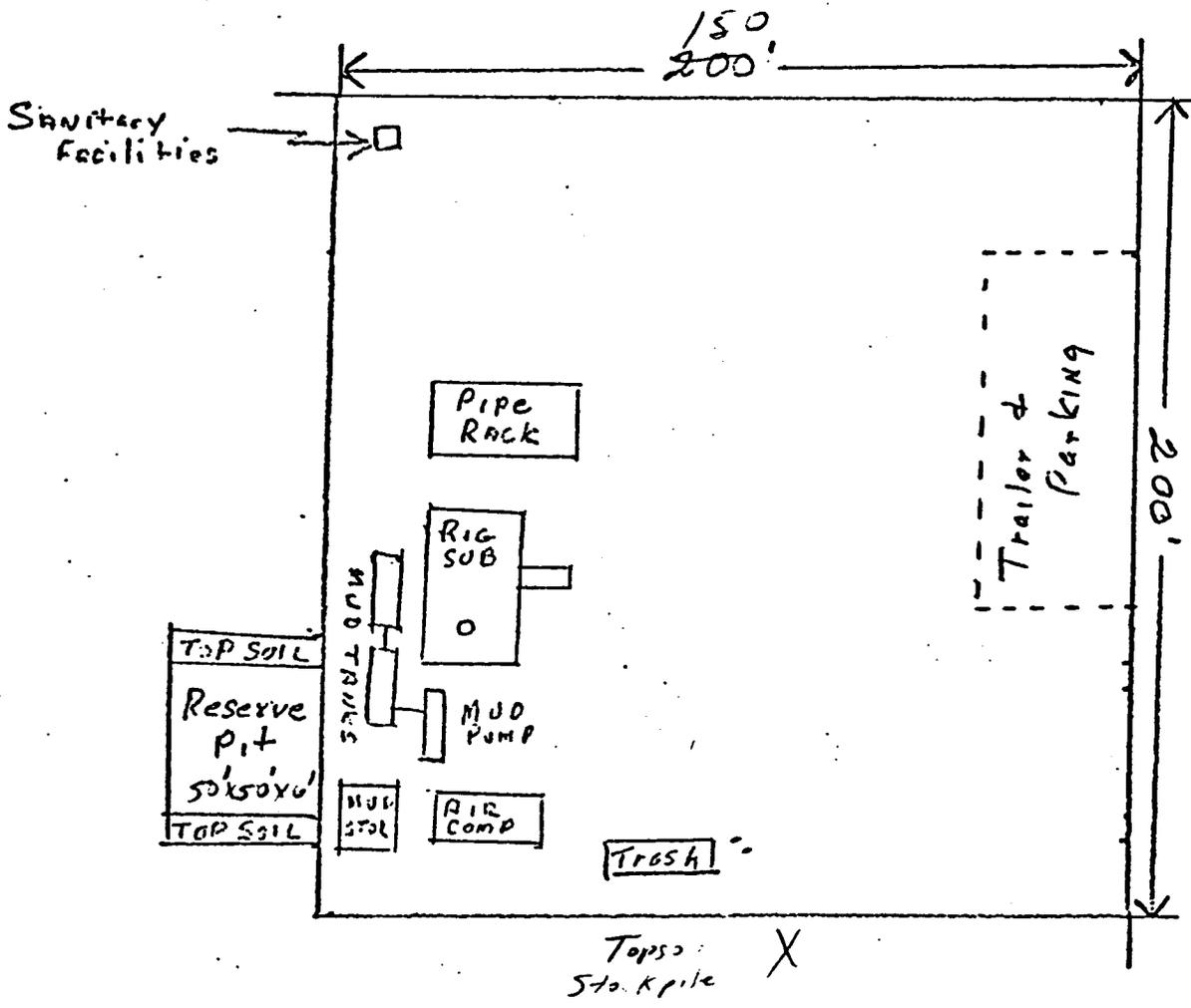


*drew in
s this quad
cent show it*
JW

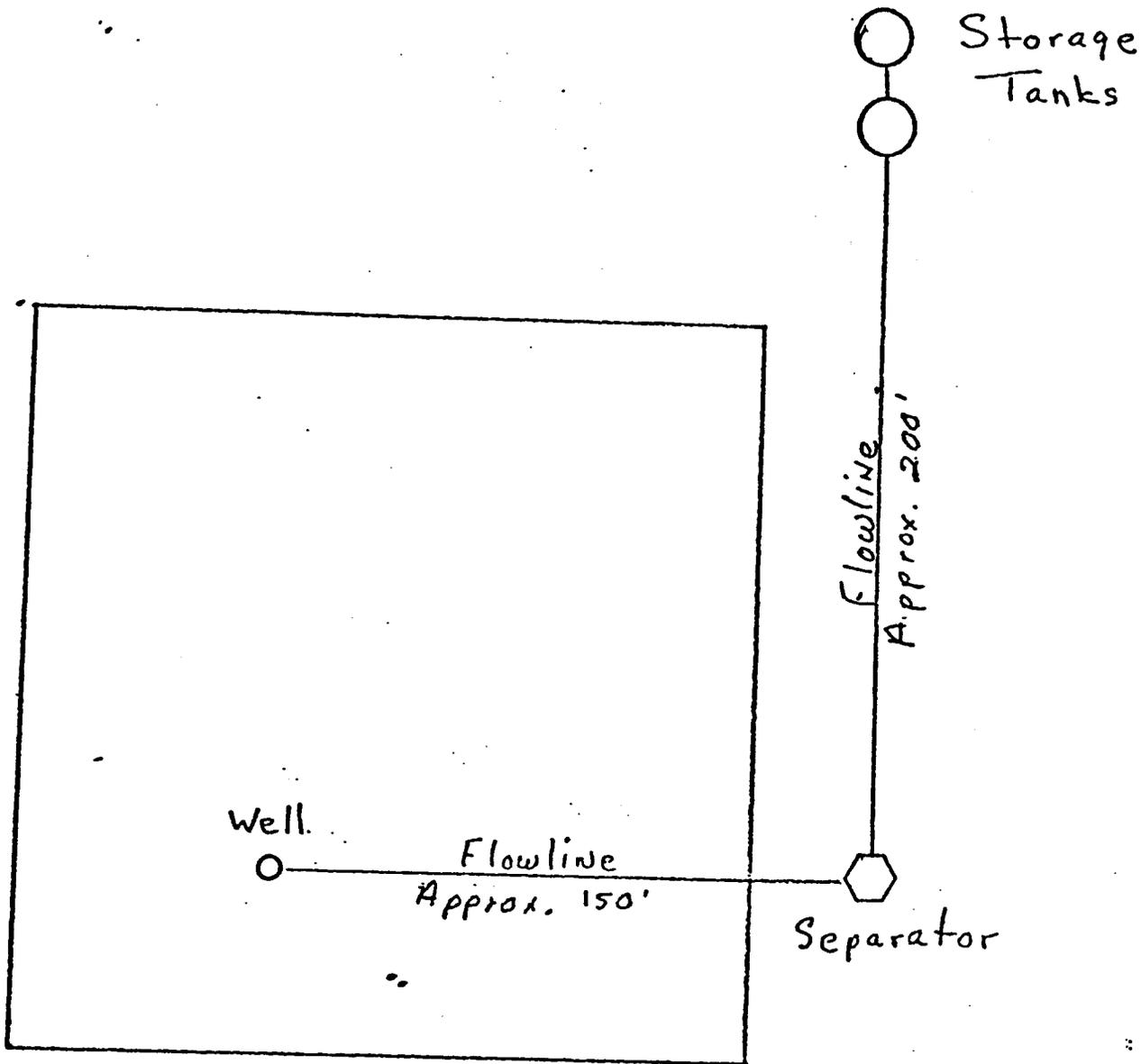
VACINITY MAP

Supren Energy Corporation
Mobil 13-21-22 #1
Grand County, Utah

- Proposed Location
- Existing Access
- Proposed Access



PROPOSED RIG LAYOUT
 Supron Energy Corporation
 Mobil 13-21-22 #1
 Grand County, Utah



PROPOSED PRODUCTION FACILITIES
Supron Energy Corporation
Mobil 13-21-22 #1
Grand County, Utah

United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-17962
Operator Supron Energy Corp. Well No. Mobil 13-21-22
Location SE 1/4 SW 1/4 Sec. 13 T. 21S R. 22E
County Grand State Utah Field Wildcat
Status: Surface Ownership Public Minerals Federal
Joint Field Inspection Date October 26, 1978

Participants and Organizations:

<u>Elmer Duncan</u>	<u>B. I. M.</u>
<u>George Weldon</u>	<u>Supron Energy Corp.</u>
<u>Bob Ryan</u>	<u>Archeologist</u>
<u>Ray Foster</u>	<u>U.S.G.S.</u>
<u> </u>	<u> </u>

Related Environmental Analyses and References:

- (1) Book Mountain Planning Unit (06-01)
- (2)

*Pad 150 x 200
pit 50 x 50
0.6 mi new access
up grade 1-mile
Flow line not in l.
1.9 ac.
Access r/o a hand
sh. - see map.*

Analysis Prepared by: Ray Foster, Environmental Scientist
Salt Lake City, Utah
Reviewed by: George Diwachak, Environmental Scientist
Salt Lake City, Utah

Date October 26, 1978

Noted - G. Diwachak

State O&G

Proposed Action;

On September 11, 1978, Supron Energy Corp. filed an Application for Permit to Drill the No. 1 Mobil 13-21-22 exploratory well, a 2560 foot oil and gas test of the Entrada Formation; located at an elevation of 4580 ft. in the SE 1/4 SW 1/4, Sec. 13, T. 21S, R. 22E on Federal mineral lands and Public surface; lease No. U-17962. There was no objection raised to the wellsite.

As an objection was raised to the access road, it was changed. See attached map for new access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area in Casper, Wyoming.

A working agreement has been reached with the BLM, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 150 ft., wide x 200 ft. long and a reserve pit 50 ft. x 50 Ft. A new access road would be constructed 16 Ft., wide x 0.6 miles long and upgrade 16 Ft. wide by 1 mile access road from an existing and improved road.

The operator proposes to construct production facilities on disturbed area of the proposed drill pad.

If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 5 to 10 days.

Location and Natural Setting:

The proposed drillsite is approximately 6 1/2 miles west of Cisco, Utah. the nearest town. A fair road runs to within 1.6^{miles} of the location.. This well is a wildcat.

Topography

Rolling terrain of shale hills cuts by small erosional gulleys. Well site is on a slight knoll.

Geology:

The surface geology is Mancos shale. The soil is sandy shale. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation. The operator proposes to drill with air methods, eliminatinf lost circulation problems.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 1.9 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slopecut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rain fall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a nonperennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are rare. The climate is semiarid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

Drainage is to the south by an erosional gully, toward Nash Wash a non-perennial tributary of the Colorado River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL2B. The depths of fresh water formations are listed in the 10Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval. _____

Vegetation:

Sage and shadscale.

Plants in the area are of the salt-desert-shrub types.

Proposed action would remove about 1.9 acres of vegetation. Removal of vegetation would increase the erosional potential and there will be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

Animal and plant inventory has been made by the BLM. No endangered plants or animals are known to habitat on the project area. The fauna

of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

SocialEconomic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to predrilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would will be visible to passersby of the area but would not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Grand County.

But should this well discover a significant new hydrocarbon source, local, state and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit (06-01).

This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

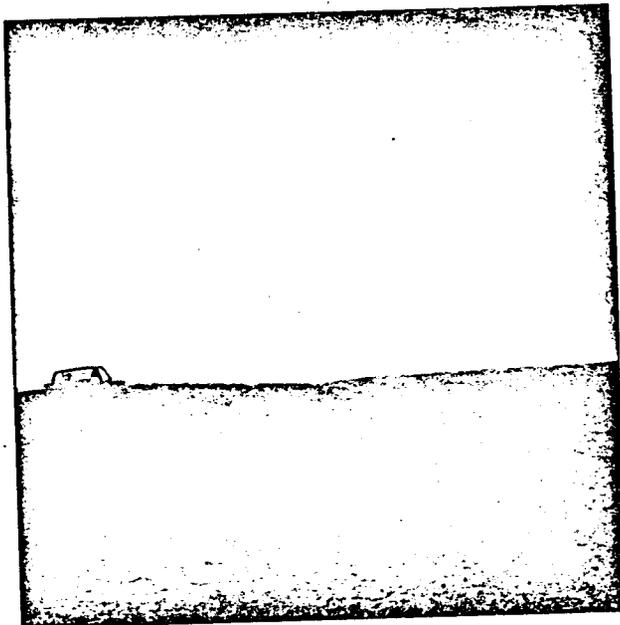
The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage will be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

1) Not Approving The Proposed Permit The Oil and Gas Lease Grants The Lessee Exclusive Right To Drill For, Mine, Extract, Remove And Dispose Of All Oil and Gas Deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and sub surface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of (oil and gas) should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected. .

2) Minor relocation of the wellsite or any special, restrictive stipulations or modifications to the proposed program will not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment will be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.



Supra Mobile #13-21-22
U-17862 EA #1388

The access road was altered slightly at the on site inspection to keep away from the bed of Nash Wash. See attached map for road change. ←

Adverse Environmental Effects Which Cannot Be Avoided:

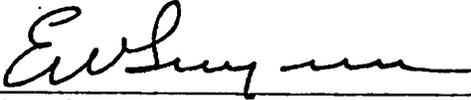
Surface disturbance and removal of vegetation from approximately 1.9 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would will exist. During the construction and drilling phases of the noise levels would increase. Potential for subsurface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to the Colorado River would exist through leaks and spills.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102(2)(C).

Date

11/24/78



District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

FROM : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, &G SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-17962

OPERATOR: SUPRON ENERGY CORP.

WELL NO. 1

LOCATION: $\frac{1}{2}$ SE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 13, T. 21 S., R. 22 E., SLM

GRAND County, UTAH

1. Stratigraphy: OPERATOR ESTIMATES ARE REASONABLE.

2. Fresh Water: SAND LENSES IN THE MANCOS MAY CONTAIN FRESH WATER. DEEPER FORMATIONS MAY CONTAIN USABLE WATER.

3. Leasable Minerals: VALUABLE PROSPECTIVELY FOR COAL AND GEOTHERMAL RESOURCES. COAL FOUND IN THE MANCOS AND/OR DAKOTA IS LIKELY TO BE SUBECONOMIC. GEOTHERMAL POTENTIAL OF THE AREA IS UNTESTED.

4. Additional Logs Needed: TEMPERATURES SHOULD BE MONITORED AND RECORDED FROM COLLAR TO T.D. BECAUSE HOLE IS WITHIN A GEOTHERMAL AREA. OPERATOR SUITE OF LOGS IS ADEQUATE FOR DAKOTA COAL.

5. Potential Geologic Hazards: NONE ANTICIPATED BUT BECAUSE HOLE IS WITHIN A GEOTHERMAL AREA, TEMPERATURES SHOULD BE MONITORED. IF ELEVATED TEMPERATURES ARE ENCOUNTERED DISTRICT ENGINEER SHOULD BE CONTACTED BECAUSE CONTINUED DRILLING COULD AFFECT GEOTHERMAL RESOURCE.

6. References and Remarks:

USGS FILES SLC UT.

WITHIN 2 MI OF G500 WASH K65

USGS Bull. 852

Signature:

TJA

Date: 9-28-78

— SUPRON ENERGY CORPORATION —

BLDG. V, FIFTH FLOOR
10300 NORTH CENTRAL EXPRESSWAY
DALLAS, TEXAS 75231

TELEPHONE (214) 691-9141
TWX (910) 861-9117
SUPCO-DAL.

September 7, 1978

District Engineer
United States Geological Survey
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84138

Dear Sir:

Listed below as per requirement for compliance with NTL-6 is the geological and well control information for Supron Energy Corporation's proposed well to be drilled in the SE/4 SW/4 of Section 13, Township 21 South, Range 22 East, Grand County, Utah.

1. The surface location is Manco.
2. The estimated tops of the geological markers are shown on the attached geological prognosis.
3. a.) No water or mineral bearing zones are anticipated.
b.) The Entrada zone is anticipated to be productive.
4. The proposed casing program is as follows:
 - a.) Surface Casing: Either 8 5/8", 24#, or 7 5/8" 26.4#, new.
 - b.) Production Casing: Either 5 1/2" or 4 1/2" new.
5. Pressure central equipment will be as follows:
 - a.) Casing Head - Series 900
 - b.) Blow out preventer - 10" Series 900 Schaffer type "B" double rams hydraulic or equivalent. B. O. P. will be tested prior to drilling out and checked daily with the results being entered on the drillers log. (See attached sketch.)
6. It is proposed that the well be drilled with air. If conditions warrant, however, a fresh water gel mud system will be used.
7. Auxillary equipment will be used as follows:
 - a.) Kelly cocks - yes
 - b.) Floats on bit - no

District Engineer
United States Geological Survey
Salt Lake City, Utah 84138

Page 2 - continued

7. c.) Mud system will be monitored by visual means only.
- d.) Full open safety valve on floor - yes.
8. Testing, logging and coring programs are indicated on attached geological prognosis.
9. No abnormal pressures, temperatures, or hazards are anticipated.
10. The anticipated starting date is September 25, 1978 and operations should last approximately 5 to 10 days.

Yours very truly,

Dan R. Collier

Dan R. Collier
Operations Assistant

DRC/bh

July 5, 1978

WELL PROGNOSIS

Cisco Area
Grand County, Utah

WELL NAME:

Supron - #1 Mobil 13-21-22

LOCATION:

corrected 500' fsl & 2040' fwl, Section 13, Township 21 South, Range 22 East,
Grand County, Utah

WELL TYPE:

Wildcat

ELEVATION:

4580' - estimated from topo sheet

TOTAL DEPTH:

2650' or depth sufficient to test the Entrada formation

ESTIMATED TOPS:

Dakota	1738'
Buckhorn	1802'
Morrison	1858'
Salt Wash	2254'
Summerville	2300'
Entrada	2500'

SAMPLES:

30' samples from base of surface to 1500' and 10' samples from
1500' to TD.

CORES:

None planned

399-442-78

DRILL STEM TESTS:

None planned while air drilling - if converted to mud drilling
all zones with porosity and shows to be tested.

OBJECTIVE FORMATIONS:

Dakota
Buckhorn
Salt Wash
Entrada

LOGGING PROGRAM:

Schlumberger Induction Log: TD - base of surface
Schlumberger Compensated Neutron-Density: TD - base of surface

SUPRON ENERGY PERSONNEL:

Geologists:

Mark Reishus	(214) 691-9141 (office)
	(214) 242-7048 (home)
Rod Perkins	(214) 691-9141 (office)
	(214) 238-9471 (home)

Engineers:

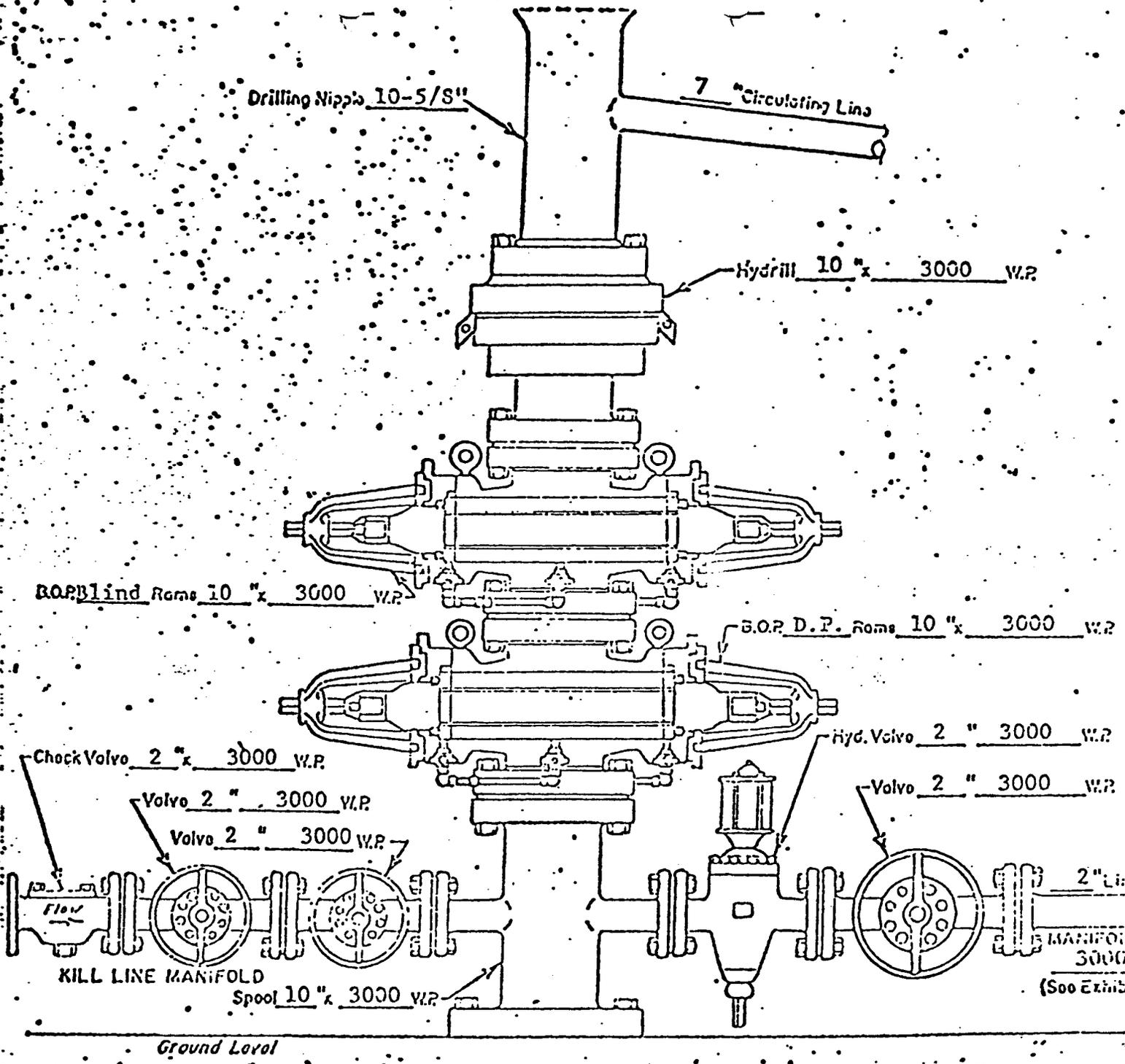
Haskell Fleetwood	(214) 691-9141 (office)
	(214) 234-5261 (home)
Gordy Gudvangen	(701) 756-6748 (office)
	(701) 546-4531 (office)

Mark Reishus

Approved: John W. Higgins

Distribution:

A. M. Wiederkehr
L. S. Muennink
J. W. Higgins
H. Fleetwood
S. K. Arora
B. J. Curtis
M. McCaffery
Geology File



WELL HEAD B.O.P.
3000 W.P.

- Manual
- Hydraulic

FROM: : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-17962

OPERATOR: SUPRON ENERGY CORP.

WELL NO. 1

LOCATION: 1/4 SE 1/4 SW 1/4 sec. 13, T. 21 S., R. 22 E., SLM

GRAND County, UTAH

1. Stratigraphy: OPERATOR ESTIMATES ARE REASONABLE.

2. Fresh Water: SAND LENSES IN THE MANCOS MAY CONTAIN FRESH WATER. DEEPER FORMATIONS MAY CONTAIN USABLE WATER.

3. Leasable Minerals: VALUABLE PROSPECTIVELY FOR COAL AND GEOTHERMAL RESOURCES. COAL FOUND IN THE MANCOS AND/OR DAKOTA IS LIKELY TO BE SUBECONOMIC. GEOTHERMAL POTENTIAL OF THE AREA IS UNTESTED.

4. Additional Logs Needed: TEMPERATURES SHOULD BE MONITORED AND RECORDED FROM COLLAR TO T.D. BECAUSE HOLE IS WITHIN A GEOTHERMAL AREA. OPERATOR SUITE OF LOGS IS ADEQUATE FOR DAKOTA COAL.

5. Potential Geologic Hazards: NONE ANTICIPATED BUT BECAUSE HOLE IS WITHIN A GEOTHERMAL AREA, TEMPERATURES SHOULD BE MONITORED. IF ELEVATED TEMPERATURES ARE ENCOUNTERED DISTRICT ENGINEER SHOULD BE CONTACTED BECAUSE CONTINUED DRILLING COULD AFFECT GEOTHERMAL RESOURCE.

6. References and Remarks:

USGS FILES SLC UT.

WITHIN 2 MI OF CISO WASH KGS

USGS BULL. 852

Signature: TRA

Date: 9-28-78

July 5, 1978

WELL PROGNOSIS

Cisco Area
Grand County, Utah

WELL NAME:

Supron - #1 Mobil 13-21-22

LOCATION:

Corrected 500' fsl & 2040' fwl, Section 13, Township 21 South, Range 22 East,
Grand County, Utah

WELL TYPE:

Wildcat

ELEVATION:

4580' - estimated from topo sheet

TOTAL DEPTH:

2650' or depth sufficient to test the Entrada formation

ESTIMATED TOPS:

Dakota	1738'
Buckhorn	1802'
Morrison	1858'
Salt Wash	2254'
Summerville	2300'
Entrada	2500'

SAMPLES:

30' samples from base of surface to 1500' and 10' samples from
1500' to TD.

CORES:

None planned

399-442-78

DRILL STEM TESTS:

None planned while air drilling - if converted to mud drilling
all zones with porosity and shows to be tested.

OBJECTIVE FORMATIONS:

Dakota
Buckhorn
Salt Wash
Entrada

LOGGING PROGRAM:

Schlumberger Induction Log: TD - base of surface
Schlumberger Compensated Neutron-Density: TD - base of surface

SUPRON ENERGY PERSONNEL:

Geologists:

Mark Reishus (214) 691-9141 (office)
(214) 242-7048 (home)

Rod Perkins (214) 691-9141 (office)
(214) 238-9471 (home)

Engineers:

Haskell Fleetwood (214) 691-9141 (office)
(214) 234-5261 (home)

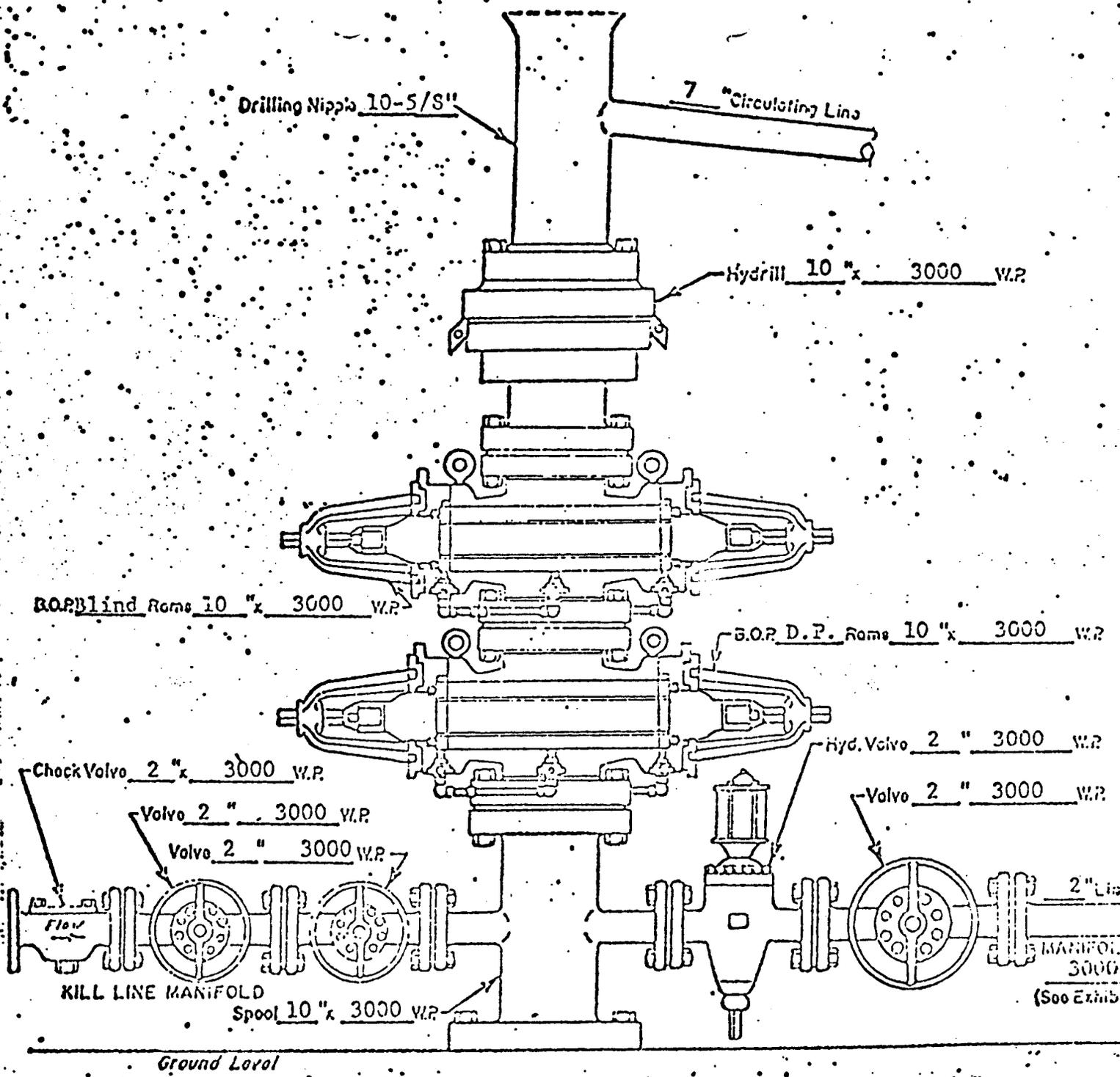
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Mark Reishus

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A. M. Wiederkehr
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Geology File



WELL HEAD B.O.P.
3000 W.P.

- Manual
- Hydraulic

U.S. GEOLOGICAL SURVEY
OIL AND GAS OPERATIONS
RECEIVED

SEP 11 1978
SALT LAKE CITY, UTAH

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: March 19, 1979

Operator: Supern Energy

Well No: Mobil 13-21-22

Location: Sec. 13 T. 21S R. 22E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-019-30503

CHECKED BY:

Administrative Assistant: [Signature]

Remarks: No other well - Sec. 13 - De

Petroleum Engineer: M.J.M. 3-21-79

Remarks:

Director: [Signature]

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: [Signature]

Survey Plat Required:

Order No. _____

Surface Casing Change to _____

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site

O.K. Rule C-3

O.K. In _____ Unit

Other:

Letter Written/Approved



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771
March 26, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

Supron Energy Corporation
Building V, Fifth Floor
10300 N. Central Expwy.
Dallas, Texas 75231

Re: Well No. Mobil 13-21-22, #1
Sec. 13, T. 21 S, R. 22 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer
HOME: 876-3001
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30503.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

cc: U.S. Geological Survey

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Supron Energy Corporation

WELL NAME: #1 Mobil 13-21-22

SECTION 13 TOWNSHIP 21S RANGE 22E COUNTY Grand

DRILLING CONTRACTOR Jacobs Drilling

RIG # 2

SPUDDED: DATE 9:15 p.m.

TIME August 30, 1979

HOW rotary

DRILLING WILL COMMENCE presently

REPORTED BY George Weldon

TELEPHONE # (303) 242-2669

DATE August 30, 1979

SIGNED *W. J. Weldon*

cc: USGS

SUPRON ENERGY CORPORATION

BLDG. V, FIFTH FLOOR
10300 NORTH CENTRAL EXPRESSWAY
DALLAS, TEXAS 75231

TELEPHONE (214) 691-9141
TWX: (910) 861-9117
SUPCO-DAL.

September 19, 1979

State of Utah
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: Mobil 13-21-22 #1
Grand County, Utah

Dear Sir:

Enclosed are the completed forms reflecting the drilling and subsequent plugging of the subject well, located in SE/4 SW/4 Section 13, Township 21 South, Range 22 East, Grand County, Utah. The logs run on this well were to be furnished to you by Schlumberger.

If further information is needed please advise.

Very truly yours,

Dan R. Collier
Dan R. Collier
Operations Assistant

DRC/rd
Enc.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-17962

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mobil 13-21-22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec 13, T-21S, R22E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER Dry hole

2. NAME OF OPERATOR

Supron Energy Corporation

3. ADDRESS OF OPERATOR

10300 N. Central Expwy, Dallas, Texas 75231

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

SE/4 SW/4 500' FSL & 2040' FWL

14. PERMIT NO.

12-1-78

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

4547' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) History

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Spud 12-1/4" surface hole @ 9:15 PM, 8/30/79. Drilled to 157'. Ran 4 joints of 8-5/8", 24#, K-55 surface casing. Set @ 163' RKB. Cemented to surface w/72 sx. Plug down @ 8:30 PM, 8/31/79.
 2. Drilled 7-7/8" hole to TD of 2360'. Reached TD 9/4/79.
 3. Ran Dual Laterolog and Compensated Neutron Density logs. Well determined to be dry hole.
 4. Requested approval to plug well while rig on location.
 5. Plugged well as follows:
 - Plug #1: 2160-2360' w/50 sx.
 - Plug #2: 1800-2000' w/50 sx.
 - Plug #3: 1350-1550' w/50 sx.
 - Plug #4: Surf-200' w/50 sx.
- Job complete & released rig @ 3:00 PM, 9/5/79

18. I hereby certify that the foregoing is true and correct

SIGNED Dan R. Collins

TITLE Operations Assistant

DATE September 19, 1979

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

14

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION:
NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Supron Energy Corporation

3. ADDRESS OF OPERATOR
10300 N. Central Expwy, Dallas, TX 75231

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 500' FSL & 2040' FWL
At top prod. interval reported below
At total depth Same as above

14. PERMIT NO. _____ DATE ISSUED 12-1-78

5. LEASE DESIGNATION AND SERIAL NO.

U 17962

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mobil 13-21-22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec 13, T21S, R22E

12. COUNTY OR PARISH Grand 13. STATE Utah

15. DATE SPUDED 8-30-79 16. L-12 T.D. REACHED 9-4-79 17. DATE COMPL. (Ready to prod.) _____ 18. ELEVATIONS (DF, RES, KT, GR, ETC.)* 4547' Gr 19. ELEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD 2360' 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS 0-TD CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* _____ 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog & Compensated Neutron Density 27. WAS WELL CORED NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	163' RKB	12 1/4"	72 sx to surface	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Plug #1	2160-2360' w/50 sx
Plug #2	1800-2000' w/50 sx
Plug #3	1350-1550' w/50 sx
Plug #4	Surface-200' w/50 sx

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33.* PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) _____

DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS. _____ CASING PRESSURE _____ CALCULATED 24-HOUR RATE _____ OIL—BBL. _____ GAS—MCF. _____ WATER—BBL. _____ OIL GRAVITY-API (CORR.) _____

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS _____

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Dan R. Collins TITLE Operations Assistant DATE September 19, 1979

*(See Instructions and Spaces for Additional Data on Reverse Side)

