

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

When approved,
Budget Bureau No. 42-R1425.

Rec'd 9-8-82

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
 HUNT OIL COMPANY

3. ADDRESS OF OPERATOR
 100 North 27th Street, Suite 550, Billings, Montana 59101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 2219' FNL & 1853' FWL SENW Sec. 27, T35S, R22E
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 5 miles Northwest of Blanding, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1853'
 16. NO. OF ACRES IN LEASE 1280

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A
 19. PROPOSED DEPTH 6270'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6730' GR

5. LEASE DESIGNATION AND SERIAL NO.
 U-23144 ✓
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 -
 7. UNIT AGREEMENT NAME
 -
 8. FARM OR LEASE NAME
 Federal ✓
 9. WELL NO.
 1-27 ✓
 10. FIELD AND POOL, OR WILDCAT
 Wildcat ✓
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 27, T35S, R22E ✓
 12. COUNTY OR PARISH
 San Juan
 13. STATE
 Utah

17. NO. OF ACRES ASSIGNED TO THIS WELL 640

20. ROTARY OR CABLE TOOLS
 Rotary

22. APPROX. DATE WORK WILL START*
 September 29, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13-3/8"	48#	60' Conductor	50 cu. ft. Redimix
12 1/2"	8-5/8"	24#	1250'	1031 cu. ft. cement
7-7/8"	5 1/2"	15.50#	6270'	500 cu. ft. cement

Ten-point compliance program attached.

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING

DATE: 9-9-82
 BY: Norman E. Street

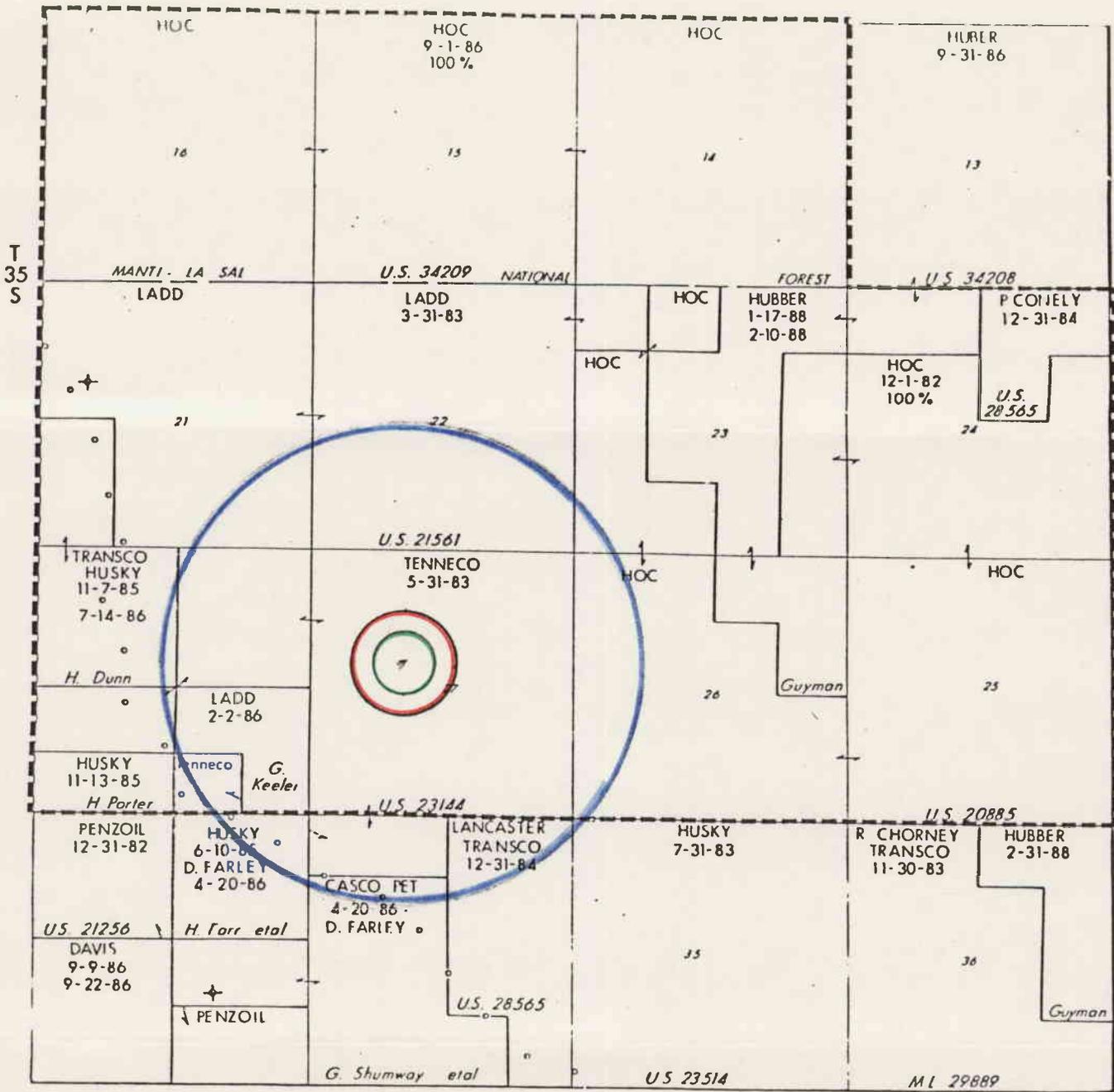
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED D. G. Trich D. G. Trich TITLE District Superintendent DATE August 30, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

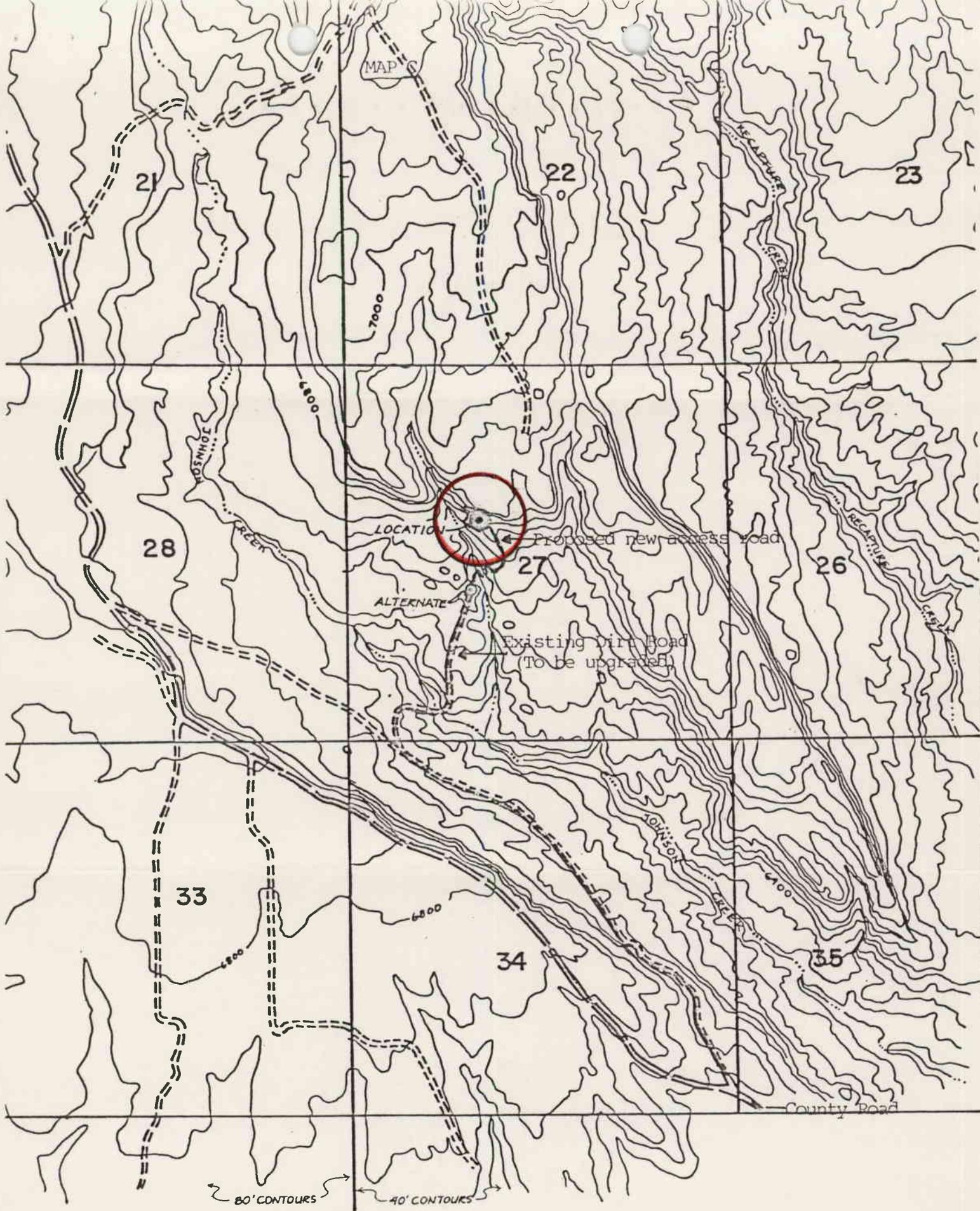


R 22 E

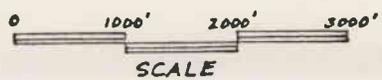
LAND MAP

HUNT OIL COMPANY
 FEDERAL 1-27
 2219' FNL & 1853' FWL
 SECTION 27, T35S, R22E
 SAN JUAN COUNTY, UTAH

- 660' radius from 1-27 location
- 1000' radius from 1-27 location
- 4960' radius from 1-27 location



==== EXISTING ROAD
 - - - - ROAD TO BE CONSTRUCTED



HUNT OIL COMPANY
 FEDERAL 1-27

660' radius from 1-27 location

MAP A

FD. PIN & CAP
AS PER
GLO NOTES

N 89°59' E (GLO NOTES) R22E

N 0° 02' W (GLO NOTES)



T35S

ELEV. BASIS:
VABM PORTER
ELEV. 7203 (NCIC)
IN THE SW/4 SE/4
20-355-22 E
SALT LAKE PM

ELEV. 6730'

27

FD PIN & CAP
AS PER GLO
NOTES

1853'
89°59'

~ 2219'

42'

2642'
3061'

SCALE: 1" = 1000'

FD PIN & CAP
AS PER
GLO NOTES

Flatirons Surveying, in accordance with a request from Hunt Oil Company, has determined the location of Hunt Oil's Hunt Federal 1-27 to be ~2219' FNL, 1853' FWL, Section 27, T35S, R22E, Salt Lake Principal Meridian, San Juan County, Utah.



FLATIRONS SURVEYING

855 Broadway
Boulder, Colorado 80302

Hunt Oil Company
100 North 27th Street
Suite 550
Billings, Montana 59101

August 30, 1982.

(406) 245-3913

Rec'd 9-8-82
Norm

Minerals Management Service
1745 West 1700 South, Suite 2000
Salt Lake City, Utah 84104

ATTENTION: Mr. Ed Guynn

Gentlemen:

SUBJECT: Application for Permit to Drill
RE: Hunt Oil Company
Federal #1-27
2219' FNL & 1853' FWL
Sec. 27, T35S, R22E
San Juan County, Utah

Please find enclosed an original and three copies of Form 9-331 C, Application for Permit to Drill, and attachments as required by NTL-6, for referenced well.

A request for exception to Utah spacing rule C-3C has been submitted to Mr. Norm Stout, Division of Oil, Gas & Mining in Salt Lake City. There appears to be no problem with this exception proposal and a copy of the approval will be sent to your attention.

A copy of the Federal Drilling Bond will also be sent to you.

The rehabilitation plan is being taken to Blanding, Utah today for signature by the land surface owner, Mr. Glover and it will be mailed by Express Mail to your attention.

If you require any additional information, please contact me at (406) 245-3913.

Yours truly,

D. G. Trich

D. G. Trich
District Superintendent

/bam

Enclosures

cc: Mr. Donald Englishman - USGS, Durango, Colorado
Mr. Brian Wood - BLM, Monticello, Utah
✓ Mr. Norm Stout - State of Utah, Div. of Oil, Gas & Mining, Salt Lake City, Utah.
Mr. Don Patterson - Hunt Oil Company, Dallas, Texas

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

Attached to Form 9-331C -

Company: Hunt Oil Company
Well: Federal 1-27
Location: 2219' FNL & 1853' FWL
Section 27, T35S, R22E
San Juan County, Utah

1. Geological Surface Formation

Morrison

2. Estimated Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Morrison	Surface
Summerville	270'
Entrada	400'
Carmel	540'
Navajo	630'
Kayenta	1120'
Wingate	1350'
Chinle	1660'
Shinarump	2660'
DeChelley	2990'
Organ Rock	3080'
Cutler Evap.	4030'
Upper Hermosa	4840'
Honaker Trail	5610'
Upper Ismay	5780'
Hoovenweep Shale	5920'
Lower Ismay	5980'
Gothic Shale	6050'
Desert Creek	6110'
Chimney Rock Shale	6200'
Akah	6220'
Salt	6260'
TD	6270'

3. Estimated Depths of Anticipated Oil, Gas and Water bearing zones.

<u>Formation</u>	<u>Depth</u>	<u>Remarks</u>
Lower Desert Creek	6110'	Oil-Primary objective
Upper Ismay	5780'	Oil-Secondary objective

Lower Ismay

5980'

Oil-Secondary objective

Any water zones encountered will be protected and reported.

4. The Proposed Casing Program

	<u>Depth</u>	<u>Length</u>	<u>Size</u>	<u>Grade</u>	<u>Weight/Ft.</u>
Conductor:	60'	60'	13-3/8"	K-55	48#
Surface:	1250'	1250'	8-5/8"	K-55	24#
Production:	6270'	6270'	5 1/2"	K-55	15.50#

5. The Operators Minimum Specifications for Pressure Control

See Attached Diagram.

Type: 900 Series Double Gate/Hydraulic

Pressure Rating: 3000 psi

Testing Procedure: Equipment will be tested to 1500 psi prior to drilling out from under surface casing and operational checks will be made daily and recorded on tour sheet.

6. The Type & Characteristics of the Proposed Circulating Muds

Surface hole will be drilled with fresh water, low weight native mud.

From 1250' to 6270' TD will be drilled with a low solids non-dispersed system.

<u>Depth</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
60' to 1250'	8.4 - 8.6	26 - 45	No Control
1250' to 6270'	8.6 - 9	36 - 38	10 - 15 cc

7. The Auxiliary Equipment to be Used

- a. Upper Kelly Cock to be used at all times.
- b. Float will not be used.
- c. Mud logging unit with gas detector will be used.
- d. Full opening stabbing valve will be on rig floor at all times.

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

Drill Stem Test: As dictated by drilling breaks, gas shows and sample shows.

Cores: Non anticipated.

Logs: DIL/SFL w/GR - Surface casing to T.D.
 FDC/CNL w/GR - Surface casing to T.D.
 Integrated BHC Sonic w/GR - Surface casing to T.D.
 Stratigraphic Dipmeter - Over productive formations.

9. Any Anticipated Abnormal Pressures or Temperatures Expected

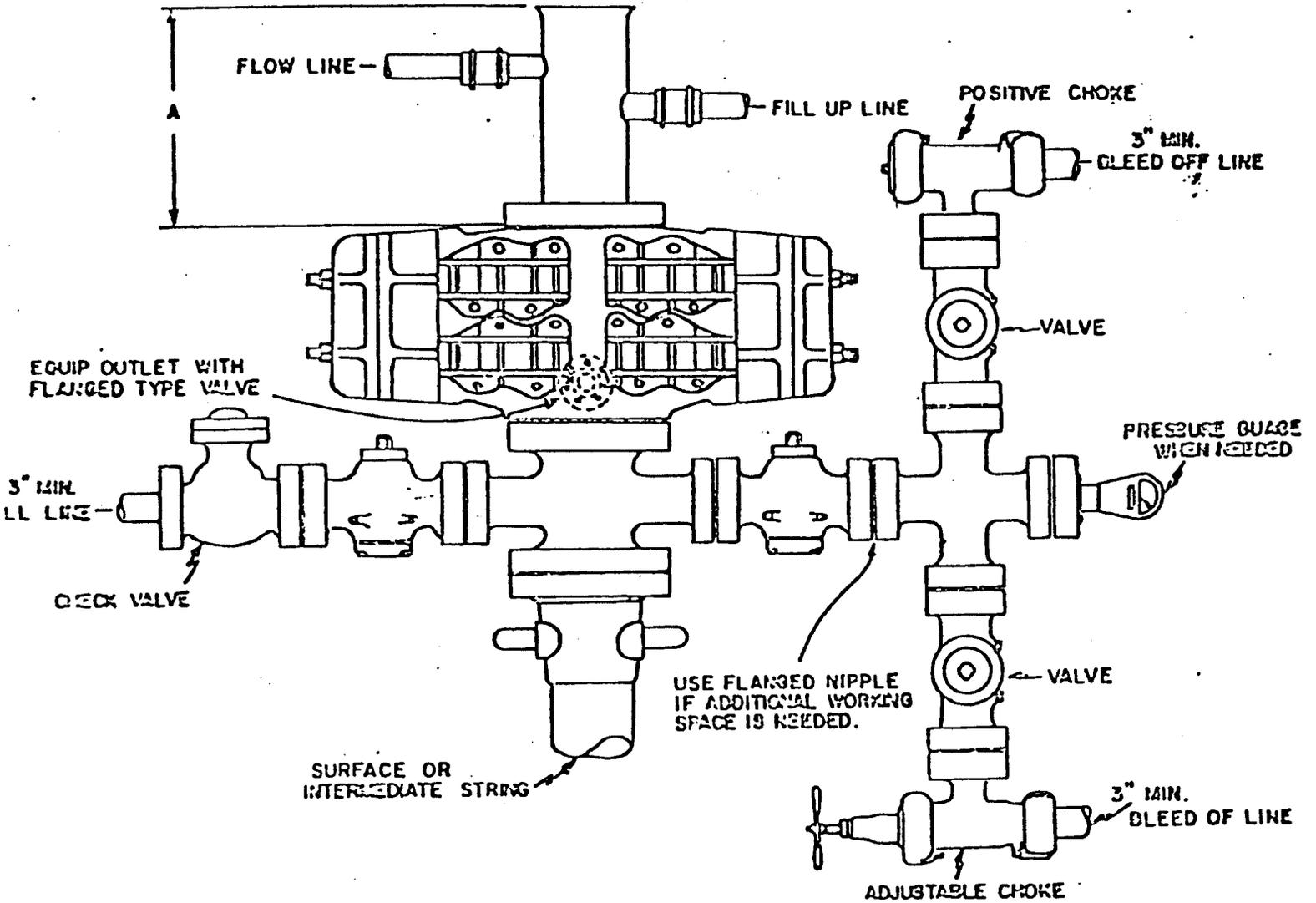
No abnormal pressures or temperatures have been noted or reported in wells in this area.

10. The Anticipated Starting Date and Duration of the Operations

Anticipated Spud Date: September 29, 1982
Required Drilling Days: Approximately 20

HUNT OIL COMPANY

FEDERAL 1-27
SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 27
T35S, R22E
San Juan County, Utah



BLOWOUT PREVENTER

11" 3000 psi

MULTI-POINT SURFACE USE PLAN

Hunt Oil Company
Federal 1-27
SENE Sec. 27 T35S R22E
San Juan County, Utah

1. Existing Roads

- A. Proposed well site is staked. See Map A.
- B. The existing access is from Blanding, Utah. Proceed north, past the school and follow the paved county road for approximately 3.25 miles to the dirt road cut off. At the dirt road proceed to the northwest for about 1 mile, across Johnson Creek and back to the north for approximately $\frac{1}{2}$ mile to the proposed well site.
- C. The access roads to the location are shown on Maps B & C.
- D. All existing roads within a 3 mile radius are shown on Map B.
- E. The mile of dirt road access needs to be bladed. It will then be maintained as necessary. Water bars will be built as necessary. This access is on Federal surface except for two very small portions that are privately owned. This portion of the road will be maintained according to the guidelines set forth by the BLM. If production is found the Federal surface roads will be upgraded to BLM Class III.

2. Planned Access Roads

- A. See Maps B & C. It will be necessary to construct approximately 1,500' of new access road. It will be flat bladed to a width of approximately 14 feet. This new access will be constructed on private surface. It will be done according to the landowner's specifications.
- B. Maximum grade will not exceed 10 - 12%.
- C. No turnouts are planned.
- D. Minor ditching will be needed for drainage.
- E. Culverts will be used if needed.
- F. The grade of this road will be constructed from native borrow accumulated during construction.
- G. No fence cuts will be made and no gates or cattleguards will be needed unless this becomes a production facility.
- H. The proposed new access road centerline has been flagged.

3. Location of Existing Wells: Within a 3 mile radius

- A. Water Wells: None Known

- B. Abandoned Wells: Standard Oil of Calif., #1 Johnson Creek, NWSE Sec. 33, T35S, R22E
Johnson Creek Expl., Inc. #1 Federal, SWNW Sec. 21 T35S R22E
- C. Temporarily Abandoned Wells: None Known
- D. Disposal Wells: None Known
- E. Drilling Wells: None Currently
- F. Producing Wells: None
- G. Shut In Wells: None Known
- H. Injection Wells: None Known
- I. Monitoring or Observation Wells: None Known

4. Location of Tank Batteries, Production Facilities and Production Gathering and Service Lines (See Figure 1)

- A. At the present time there are no Hunt Oil Company batteries, production facilities, oil gathering lines, gas gathering lines, injection or disposal lines within a 3 mile radius.
- B. In the event that production is established, the existing area of the location will be utilized for the necessary production facilities. The possibility also exists that due to the rugged terrain a central tank battery may be constructed if enough production is obtained in the area. This however will be dealt with at a future time with the BLM and the private surface owner.
- C. The total area that is needed for the production facility will be constructed with regards to the specifications set forth by the landowner. If the tank battery facility should be located on Federal land, its construction will be done according to BLM guidelines.
- D. The rehabilitation of the disturbed area that is not required for the production will be rehabilitated according to the landowners specifications.

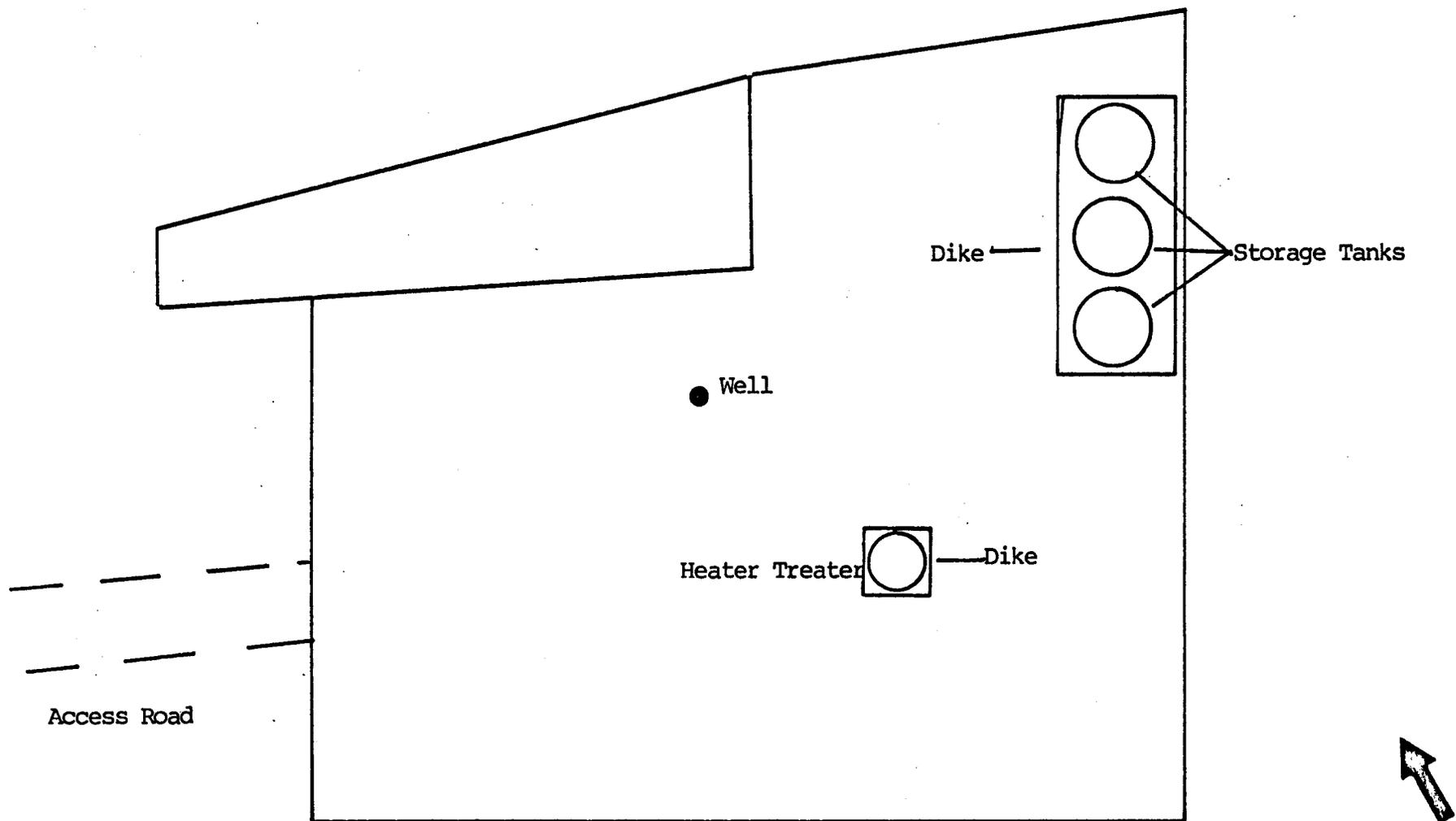
5. Location and Type of Water Supply - Potential Water Source

- A. Any water used on this operation will be approved by obtaining a temporary use permit from the Utah State Engineer (801) 647-1303 and from the landowner or the BLM.
- B. Water will be transported over the roads shown on Maps B & C.
- C. No water well will be drilled.

6. Source of Construction Materials

- A. Plans are to use soil materials from the drilling location for the construction of the well pad.
- B. The well location is on private land. Approximately 1⁺ mile of the dirt access is on Federal land and approximately 1500' is on private land.

FIGURE 1



C. Please refer to Maps B & C for the location of the access roads.

7. Methods of Handling Waste Disposal

- A. Cuttings will be deposited in the reserve pit.
- B. Drilling fluids (water etc.) will be deposited in the reserve pit.
- C. Produced fluids will be put in a storage tank or run into the reserve pit. An NPL-2B will be filed if necessary for disposal of produced water.
- D. Sewage will be contained either in a portable toilet treated with chemicals or a sewage hole will be dug adjacent to any trailers located on location with toilet facilities.
- E. Garbage and other waste materials will be put in a burn pit or a cage and all flammable materials will be burned. This pit will be fenced with small mesh wire to prevent littering.
- F. Upon completion of drilling all trash and litter will be burned and buried. All metal and non-burnable materials will be taken from the facility and either salvaged or deposited in an approved location. The reserve pits will be rehabilitated according to the landowners specifications.

8. Ancillary Facilities

- A. No ancillary facilities are planned.

9. Wellsite Layout

- A. For cross sections of the drill pad with cuts and fills, please refer to Figure 2.
- B. For location of the drill pad reserve pit, burn pit and topsoil stockpile, please refer to Figure 3.
- C. For rig orientation, please refer to Figure 4.
- D. The reserve pit will not be lined.

10. Plans for Restoration of the Surface

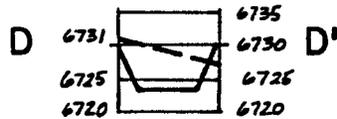
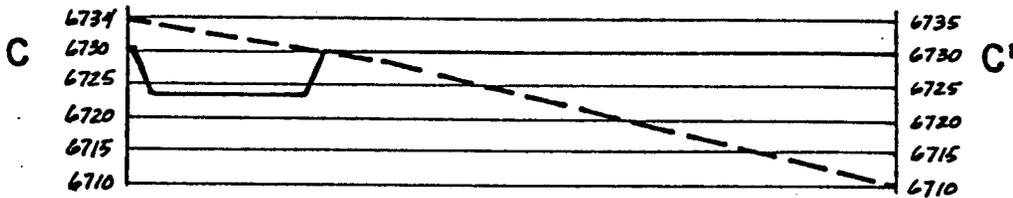
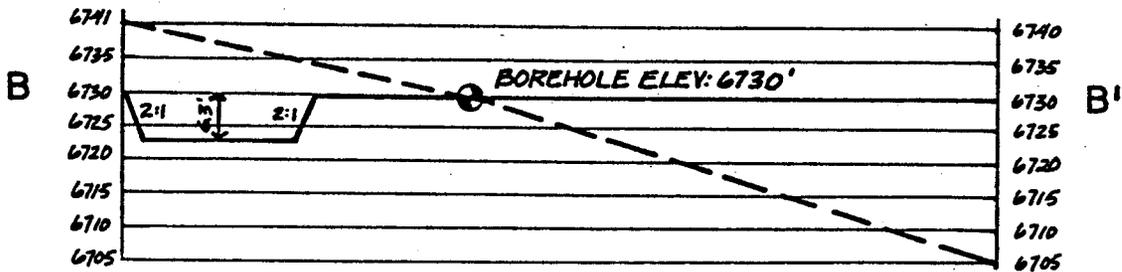
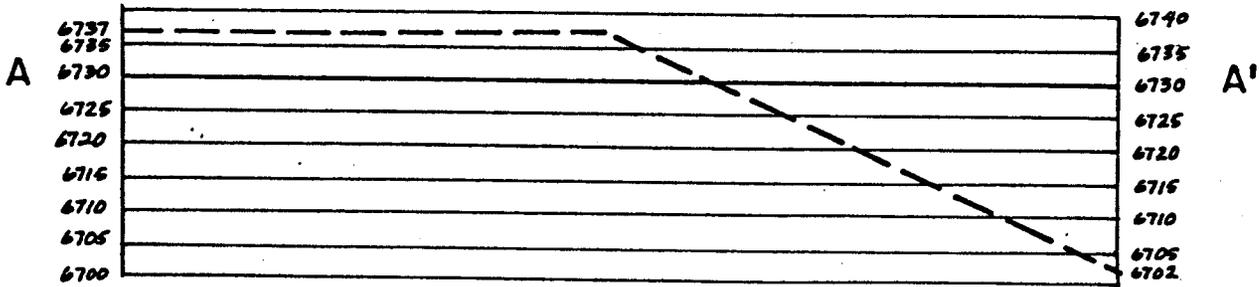
- A. All topsoil will be stripped from the location and stockpiled for use after completion of drilling operations. If the well is a dry hole the access road on the private surface will be restored and revegetated according to the landowners specification.

The portion of the access road that is on Federal surface will be restored according to BLM guidelines. This will include broadcasting the following seed mixture between October 1, and Feb 28:

2 lbs./acre	Indian Ricegrass
2 lbs./acre	Fourwing Saltbush
2 lbs./acre	Crested Wheatgrass
1 lb. /acre	Curley grass
1 lb. /acre	Desert Bitterbrush

FIGURE 2

HUNT OIL



CROSS SECTIONS

HORIZ. SCALE 1 INCH=50 FEET
 VERT. SCALE 1 INCH=30 FEET

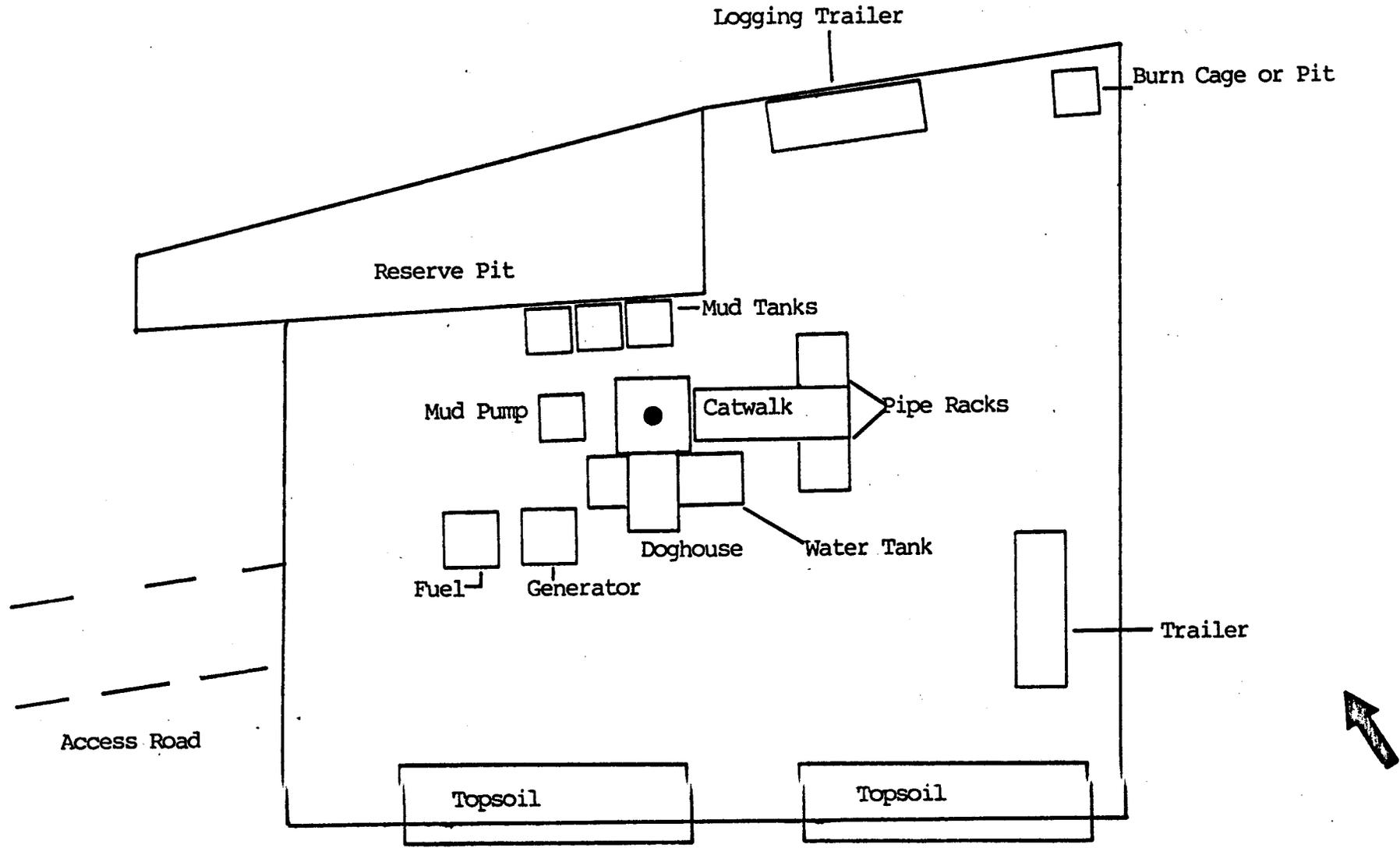


FLATIRONS SURVEYING

855 BROADWAY SUITE 4
 BOULDER CO. 80302
 (303) 443-7001

———— PROPOSED WELL PAD ELEV.
 - - - - - EXISTING GROUND

FIGURE 4



After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

The location will be leveled, restored and revegetated according to the landowners specifications. If it is a dry hole, a marker will be installed upon approval of the landowner.

11. Other Information

- A. Topography is rugged with steep cliffs.
- B. Wildlife observed in the area consists of deer, and small rodents.
- C. Dirt work will be done by:
Carl Hunt
Hanksville, Utah
(801) 542-3241

Carl Hunt will notify the BLM office in Monticello 48 hours before any work done on the Federal surface. The country road Dept. will also be notified.
- D. No archeological sites of any significance were found on Federal land.
- E. Two alternate locations were staked, however they are not to be considered at this time.
- F. The nearest dwelling is located in Blanding, Utah.
- G. The nearest body of water is Johnson Creek approximately 200' to the west of the location. It is an intermittent stream.

12. Lessee or Operator's Field Representative

Dick Trich
Hunt Oil Company
Suite 550
100 North 27th St.
Billings, Montana 59101
(406) 245-3913

Kent Gilbert
Suite 625
1600 Broadway
Denver, CO 80202
(303) 322-9215

13. Certification

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access road; 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 Hunt Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

8/27/82

Date

8/26/82

Date

Dick Trich

Dick Trich
District Superintendent

Kent L. Gilbert

Kent L. Gilbert
Consultant



FLATIRONS SURVEYING

PROJECT IDENTIFICATION: A cultural resource survey for Hunt Oil Company, well pad and access, SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 27, T35S, R22E, Salt Lake Principal Meridian, San Juan County, Utah; San Juan Resource Area, Moab District, Bureau of Land Management.

U.S. DEPARTMENT OF INTERIOR, BUREAU OF LAND MANAGEMENT, FEDERAL ANTIQUITIES PERMIT NO.: 82-UT-008.

FILE SEARCH: A file search of the proposed area was conducted in August, 1982, with the State Historic Preservation Office and the San Juan Resource Area Office, Moab District, Bureau of Land Management. Three prehistoric archaeological sites were previously reported in Section 21, T35S, R22E. Site 42SA5632 is reported to be in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 21 and represents an Anasazi Pueblo I-II site. Site 42SA5633 is in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 21. This site represents an Anasazi Pueblo II-III site. Site 42SA5640 is in the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 21 and represents an Anasazi Pueblo II-III site. These sites will not be directly or indirectly impacted by the proposed project.

MAP REFERENCE: Blanding, Utah, U.S.G.S. Topographical Quad., 15 Minute Series, 1957; Brushy Basin Wash, Utah, U.S.G.S. Topographical Quad., 15 Minute Series, 1957.

PERSONNEL: John D. Gooding, Principal Investigator; Nena Powell and Andrea M. Barnes, Field Investigators.

DATE OF INVESTIGATION: August 17-18, 1982.

PROPOSED ACTION: The proposed action of this project is the construction of a well pad and reserve pit which will result in the surface disturbance of approximately two acres. Additionally, there will be use of approximately 3.5 kilometers (2.2 miles) of access. Considerable construction will be required

along this access route. During the course of the land survey, a total of five well pad locations were staked, one as the probable location to be used and four as possible alternative locations. The field archaeologist accompanied the land surveyor to all five locations to ensure that none of the locations would be staked in the immediate vicinity of cultural resources. Two locations are in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$. The remaining three alternatives are in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$, the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$, and the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ (see map). It should be noted that the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 27 is privately owned surface and federally owned minerals. The entire SW $\frac{1}{4}$ of Section 27 is federally owned surface and minerals.

During the pre-drill inspection, representatives from Hunt Oil Company, Minerals Management Service, Bureau of Land Management and Hunt's Service, Inc., decided the best location for the well would be in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 27. The locations in the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ and in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ were completely eliminated as alternatives. Representatives requested that the land surveyor stake and label the pad layout of one of the three remaining locations (see survey area map), and to leave a flagged fence post in the ground at the other two possible alternatives, one being in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$, and the other being in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$.

ENVIRONMENT: Geographically, the proposed project area is usually identified as the Blanding Basin within the Colorado Plateau. The local topography is characterized by high mesa and broad alluvial valley features interfaced by steep talus slopes that are deeply dissected by steep, narrow, intermittent drainages. The talus slopes, which represent areas of deep colluvial deposition, abut vertical cliff walls of Dakota Sandstone.

The proposed well pad is situated on a relatively flat, narrow east/west-trending bench below the base of a cliff wall, approximately 50 meters below the top of the mesa to the north. The northern edge of the reserve pit cuts into the bottom of a talus slope that rises approximately 25 meters to the base of the vertical cliff. Access to the proposed well pad begins in Blanding, Utah. Go north from the corner of North 1st E and Center for four miles. Turn to the northwest through a locked gate at the southeast corner of Section 34, T35S, R22E. The gravel dirt road skirts a cliff wall and talus slope down to the valley

for 1.6 kilometers (1 mile). Then turn north on an existing unimproved road where it crosses Johnson Creek and winds up a ridge toward the base of the cliff for 1.9 kilometers (1.2 miles; see map).

The surface geologic formation is in the Morrison Formation. The soil is represented by light brown sand.

The vegetation cover is dominated by pinon (Pinus edulis) and juniper (Juniperus osteosperma). Other floral species include gambel oak (Quercus gambelii), shrub live oak (Quercus turbinella), Utah serviceberry (Amelanchier utahensis), big sagebrush (Artemisia tridentata), mountain mahogany (Cercocarpus breviflorus), broad-leaf yucca (Yucca baccata), Indian ricegrass (Oryzopsis hymenoides), blue grama grass (Bouteloua gracilis), bottlebrush squirreltail (Sitanion hystrix), rabbitbrush (Chrysothamnus sp.), prickly pear (Opuntia sp.), scattered ponderosa pine (Pinus ponderosa), groundsel (Senecio sp.), scarlet penstemon (Penstemon barbatus) (in bloom), and barrel cactus. Fauna observed includes mule deer (Odocoileus hemionus), chipmunks (Eutamias minimus) and beaver (Castor canadensis). Reptiles include horned toads, lizards and snakes. Avian fauna includes magpies (Pica pica), mourning doves (Zenaidura macroura), black vultures (Coragyps atratus), ravens (Corvus corax), canyon wrens (Catherpes mexicanus), Steller's jays (Cyanocitta stelleri) and black hawks (Buteogallus anthracinus).

FIELD METHODOLOGY: The Hunt Oil Company, well pad and access, field investigation was performed pursuant to federal and state legislation implemented to address the problems of cultural resource management. In compliance with this mandate, the location, identification, description and evaluation of endangered cultural resources must be conducted whenever possible. To comply with the requirement, 20 acres surrounding all five well pad locations were systematically investigated by walking concentric circles around the center of the location covering a radius of 125 meters (330 feet) at 10-meter intervals.

Approximately 1.9 kilometers (1.2 miles) of the proposed access route was surveyed for cultural resources. A 150-foot corridor was investigated by walking 10-meter transects along the centerline.

RESULTS: Three prehistoric archaeological sites, temporary numbers HO-SA-1, HO-SA-2 and HO-SA-3, were located within the project area. HO-SA-1 is located in the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 27, 25 meters north of the northern edge of the proposed well pad. This site represents the remains of a small pueblo that was occupied by the Anasazi sometime between A.D. 900-1200 (Pueblo II-III). The western portion of the site consists of two to three room blocks and a central circular kiva that abut the base of a cliff wall. There is a probable recent hearth area located on the northwestern edge of the kiva. Fairly good-sized chunks of charcoal are present. The eastern portion of the site consists of a small room located in the cleft of the cliff wall about four meters above the base of the cliff. There is a wooden juniper pole measuring 2.5 meters high that apparently has been used as a ladder up to the room. The pole appears to be of recent origin since it is axed on the bottom end. There is evidence of rock wall remains that are supported by stripped juniper boughs located at the apex of an opening in the cliff wall. The opening extends approximately seven to eight meters high where there is evidence of stripped juniper beams supporting the ceiling of the cliff wall. There are some petroglyphs located to the west and down from the opening (see detail drawing).

Artifacts found on the surface of the site include burned stone or fire-cracked rocks, ceramics, lithics, unburned bone, charcoal; corn cobs, rubble/shaped stone, adobe, the wooden pole used as a ladder, and stripped juniper boughs used as beams and latillas. Ceramics include plain and corrugated white wares, plain and corrugated gray wares, Mesa Verde affiliated black-on-white types and black-on-red types. An organic black paint was used. Lithic materials include white, gray, and red and white quartzite; gray, white, black, light tan with black inclusions cherts; green rhyolite; and one piece of translucent obsidian.

The architecture of the room blocks and kiva consists of dry-laid sandstone slabs and blocks that have been faced. Wall alignments were discernible; however, most of the walls have fallen to the outside. Rubble and stripped juniper boughs were observed at the base of the cliff below the opening in the cliff wall (see site form).

Temporary number Site HO-SA-2 is located in the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 27 on the mesa top directly above Site HO-SA-1, and is approximately 100 meters north of the rim. This site represents the remains of a small Anasazi (Pueblo II-III) pueblo mound associated with a lithic and sherd scatter. The masonry mound measures 4 meters N/S by 10 meters E/W. Wall alignments were difficult to determine because of the immense amount of rubble. The structure was constructed of dry-laid sandstone slabs and blocks. The pueblo possibly may have been L-shaped, but this also was hard to determine because of a large juniper growing on the southwestern corner of the feature. Ceramic and lithic materials were the same as found on Site HO-SA-1. The sherd and lithic concentration is located five meters north of the pueblo mound and measures 7 meters N/S by 5 meters E/W. The entire mesa top in the general vicinity contains scattered sherds and lithics over the surface. A white chert side-notched projectile point was found approximately 100 meters directly south of the mound and just over the edge of the mesa rim (see drawing). No other stone tools, other artifacts or features were observed.

Temporary number Site HO-SA-3 is located in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 27 on a north/south-trending ridge. This site consists of a sherd scatter measuring 3 meters N/S by 4 meters E/W. There are approximately ten to twenty unidentified plain white ware sherds found within this small concentrated area. The sherds appear to be from the same vessel. The type of vessel is undetermined because of the small size of the sherds and the fact that no rim sherds were observed.

No prehistoric or historic archaeological sites were found along the proposed access route.

RECOMMENDATIONS: The major concern of this report is temporary number Site HO-SA-1. There is a strong probability of direct and indirect adverse impact to the archaeological site, because of the site's proximity to the proposed construction activities. It should be noted that this archaeological site and the proposed wellsite are located on privately owned surface (federal minerals).

Site HO-SA-1 is considered a significant site and should be considered eligible to the National Register of Historic Places. It is evident that the site has been visited by locals and/or the landowner; however, the site does not appear to have been disturbed, i.e., vandalized ("pothunted") to any extent. There is no evidence of anyone having dug in the site. There is a relatively contemporary circular campfire ring with charcoal on the surface of the northwestern edge of the circular kiva alignment. Also, the room located in the opening of the cliff wall has been climbed into by the landowner and a troop of Boy Scouts by use of the juniper "ladder" pole (Glen J. Shumway, personal communication, 1982). There is evidence of a rock wall at the apex of the opening (at the top end of the ladder) that has fallen into the room and also to the outside near the base of the cliff. It is hard to determine how much of this disturbance was caused by the visitors or by natural deterioration. Even though the site has had minimal disturbance to the surface, the site does contain undisturbed subsurface cultural materials that could provide additional scientific knowledge of Anasazi lifeways in the area during A.D. 900-1200.

It is the recommendation of the field archaeologist that this site be avoided at all costs. Although the impact of the actual construction area will not directly disturb the site, undoubtedly there will be an indirect adverse impact because of the 25-meter proximity. It is recommended that the construction activity of the well pad and the access route be monitored by a professional field archaeologist. Any mitigation procedure will ultimately require the approval of the surface landowner, and final authorization of clearance and approval of recommendations will be granted by Bureau of Land Management and the State of Utah.

The importance of preserving and protecting the cultural resources in this area should be made clear to all persons working on construction activities of the well pad and access route. If in the event that any cultural resources are encountered during the construction operation, all reclamation work should be stopped and a professional archaeologist should be called to the area for investigation and evaluation.

In consideration of temporary numbers Sites HO-SA-2 and HO-SA-3, it is recommended that both of these sites be avoided. Site HO-SA-2 is considered eligible to the National Register of Historic Places. This site is located 60

Hunt Oil Company
SE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 27, T35S, R22E
Page 7

meters northeast of the alternative wellsite location in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 27, located on the mesa top. If in the event this well location is ever considered to be drilled, it is the recommendation of the field archaeologist that the proposal be rejected, since the site would be destroyed by the construction of the well pad. In the case of Site HO-SA-3, it is considered to be non-significant and is not eligible for inclusion in the National Register of Historic Places. It is recommended that the site be avoided.

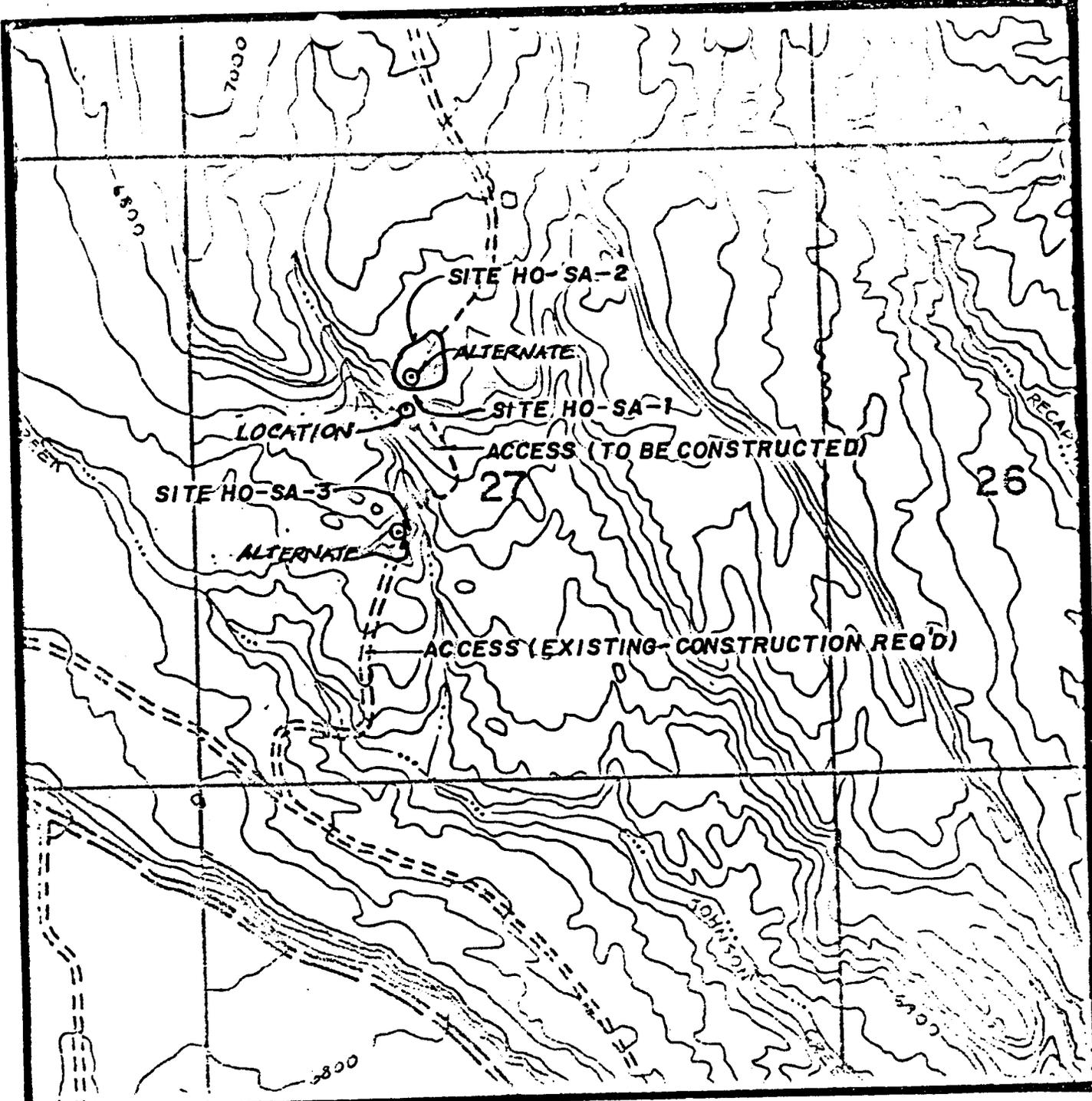
May 22, 1962

Date

John D. Gooding

John D. Gooding

Director, Archaeological Division



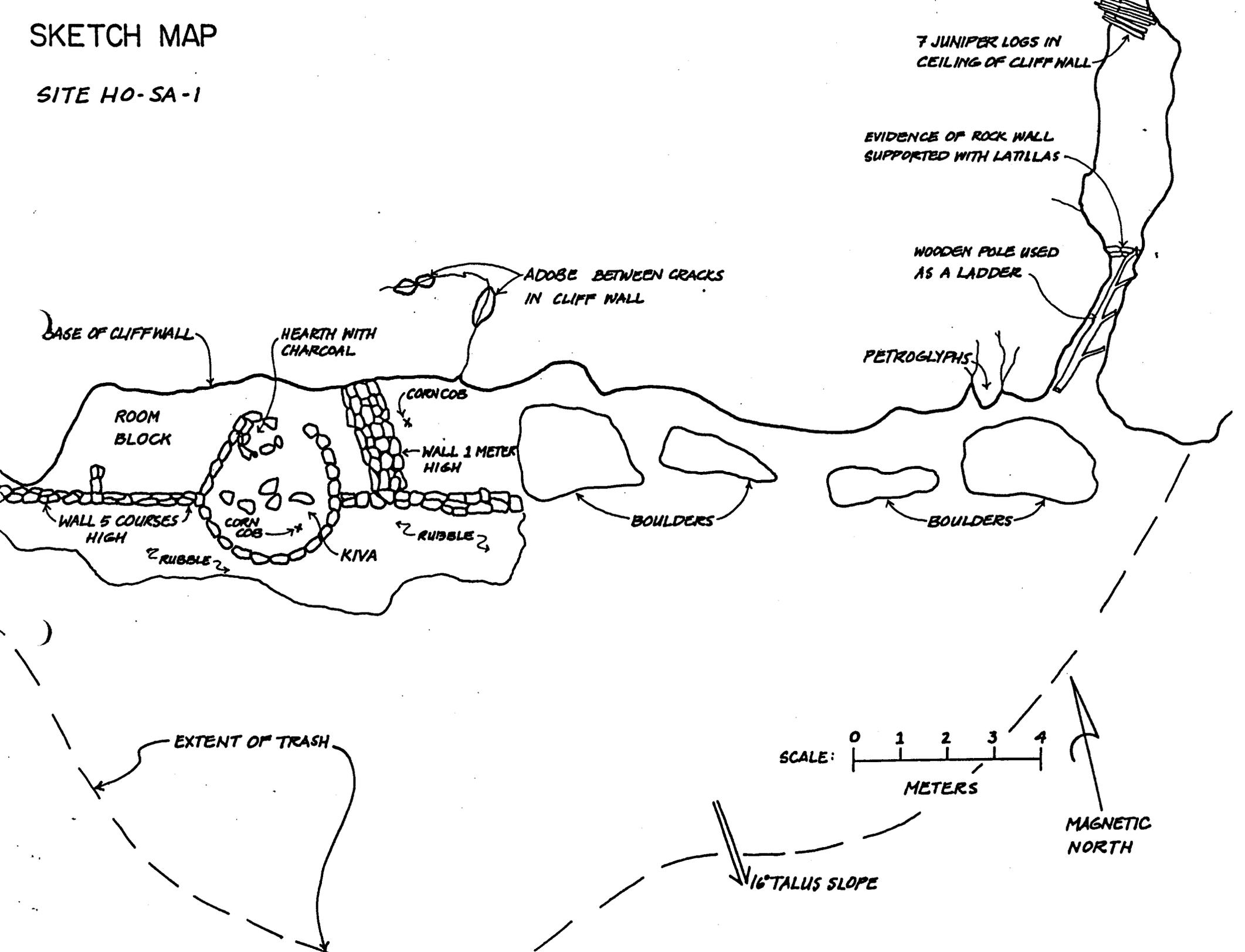
ARCHAEOLOGICAL SURVEY AREA

--- ACCESS ROUTE

<p>Blanding, Utah 15', 1957</p> <p>Brushy Basin Wash, Utah 15', 1957</p> <p>T35S, R22E</p>	 <p>FLATIRONS SURVEYING 855 BROADWAY SUITE 4 BOULDER, CO. 80302 (303) 443-7001</p>	<p>DATE 8/22/82</p>
		<p>SURVEY DATE 8/17/82</p>
<p>SCALE APPROX 1" = 1332'</p>	<p>FIELD CREW: N. POWELL/A. BARNES</p>	<p>FIGURE 1</p>
<p>CONTOUR INTERVAL SEC 27: 40'</p>		

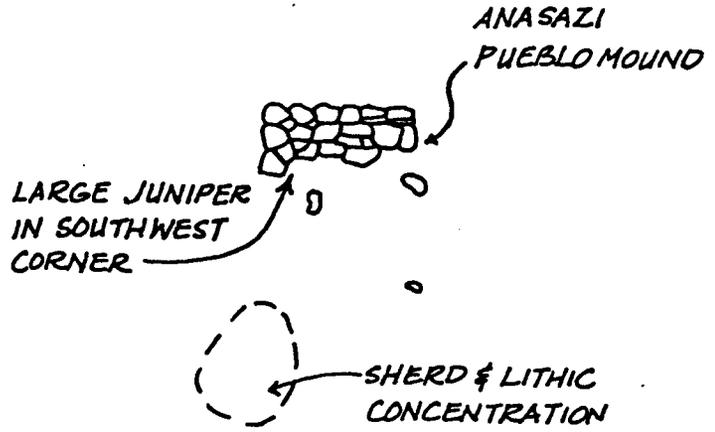
SKETCH MAP

SITE HO-SA-1



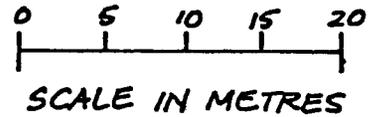
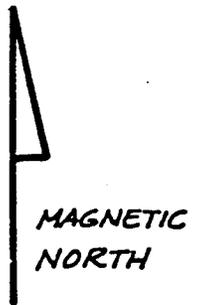
SITE HO-SA-2

SKETCH MAP

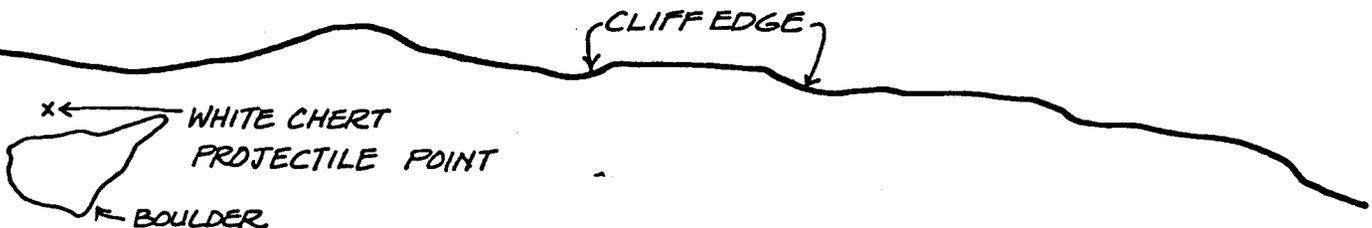


SHERDS & LITHICS
SCATTERED OVER TOP OF MESA

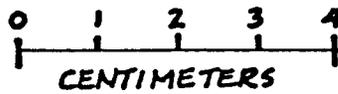
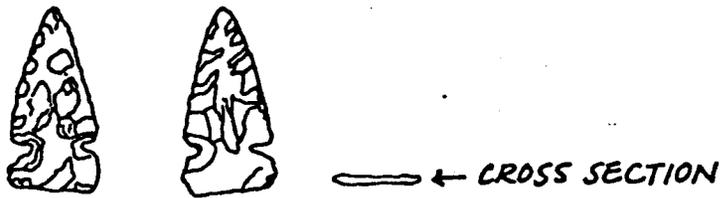
ALTERNATIVE
LOCATION CENTER



MESA TOP
PINYON - JUNIPER WOODLAND

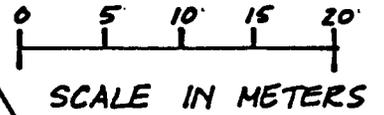
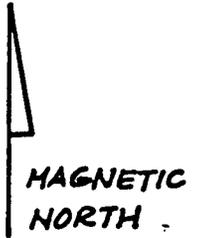


SIDE-NOTCHED PROJECTILE POINT
(SHOWN ACTUAL SIZE)



SKETCH MAP

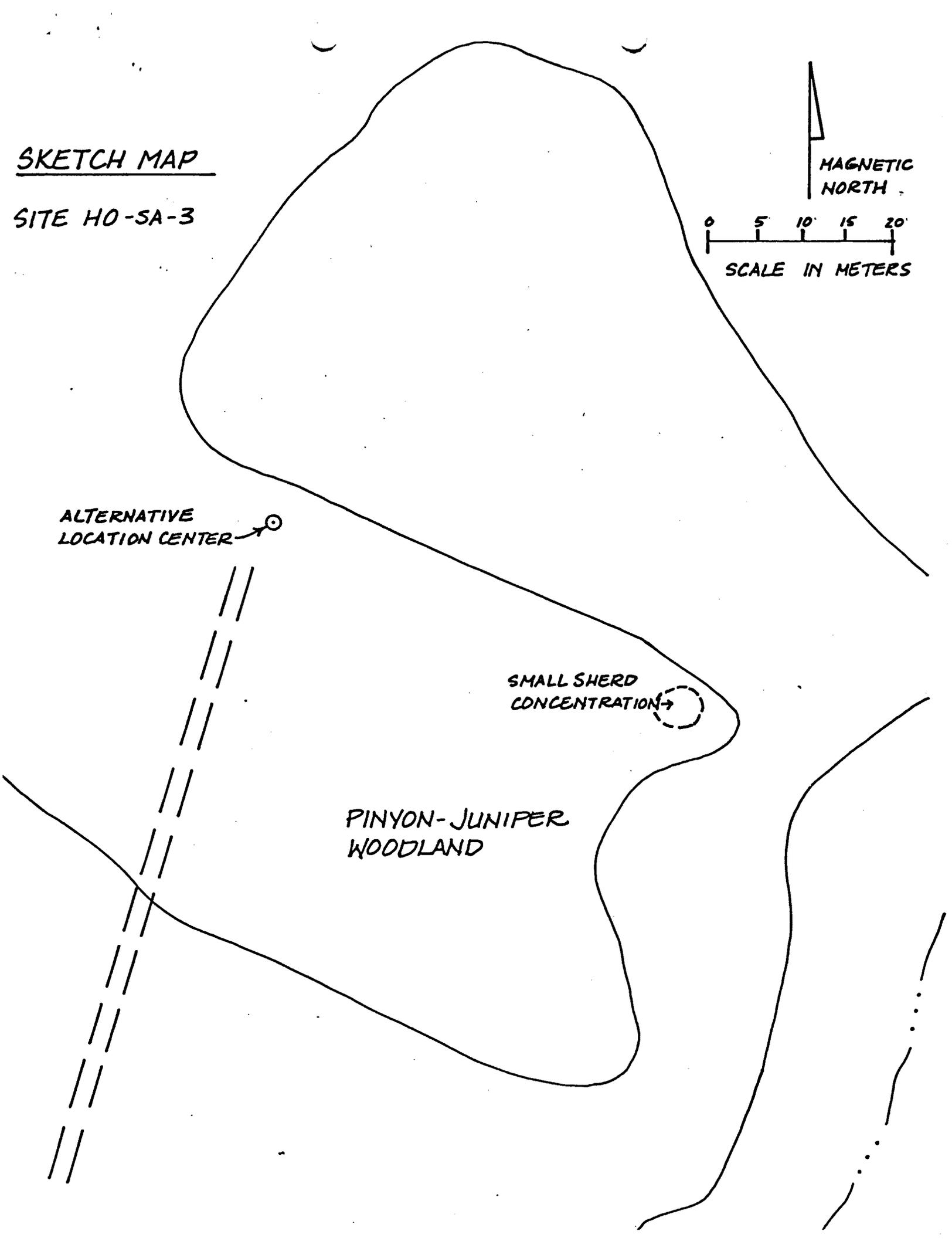
SITE HO-SA-3



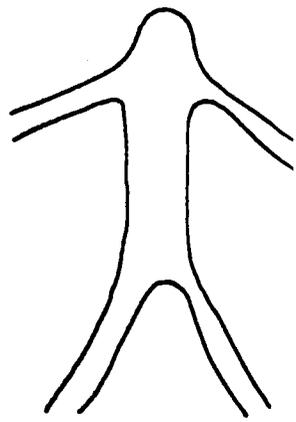
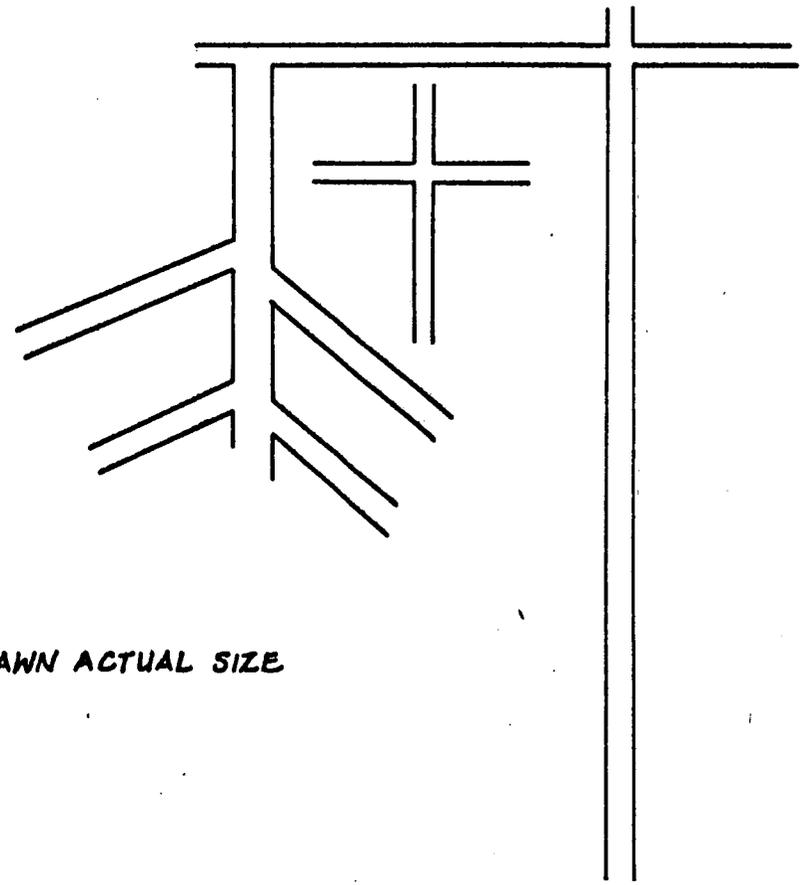
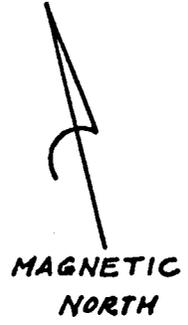
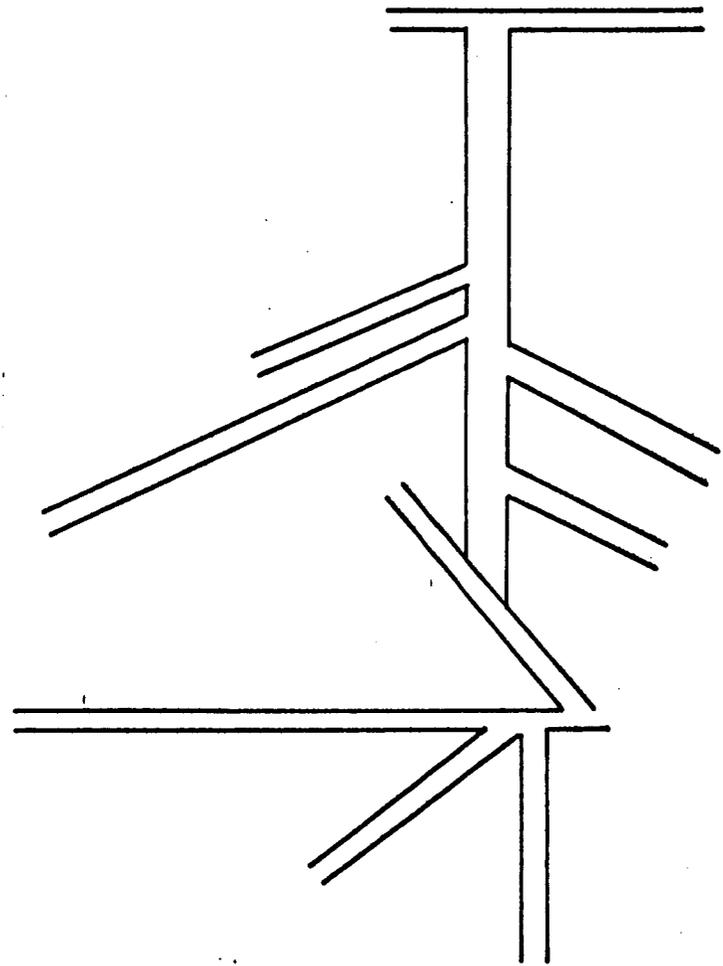
ALTERNATIVE
LOCATION CENTER → ○

SMALL SHERD
CONCENTRATION → ○

PINYON-JUNIPER
WOODLAND



DETAIL OF PETROGLYPH



PETROGLYPHS DRAWN ACTUAL SIZE

Hunt Oil Company
100 North 27th Street
Suite 550
Billings, Montana 59101

(406) 245-3913

August 26, 1982

Division of Oil Gas & Mining
4241 State Office Bldg
Salt Lake City, Utah 84114

Attention: Mr Norm Stout

Gentlemen:

SUBJECT: Request for exception to spacing Rule C-3C.
RE: Hunt Oil Company
Federal #1-27
2219' FNL & 1853' FWL
Sec. 27, T35S, R22E
San Juan County, Utah

Hunt Oil Company has staked the referenced unorthodox location due to topographical conditions.

There are no known oil wells in a 1000' radius or gas wells with-in 4960' radius of the referenced location.

A letter of agreement from Tenneco Oil Company is being sent to you from our Denver exploration office and a \$10,000.00 drilling bond is also being sent from our Dallas office.

If you need any additional information please let me know.

Yours truly,

Dick
D.G. Trich

406-245-3913

D.G. Trich
District Superintendent

/bam

Attachments: (1) Lease map
(2) Topo map
(3) Location plat

cc: Don Patterson-Dallas

RECEIVED
AUG 31 1982

DIVISION OF
OIL, GAS & MINING

Still no APD - Called Trich who said it was sent special survey 8-30-82, said he could send again 9-7-82 ✓

**** FILE NOTATIONS ****

DATE: 9-1-82

OPERATOR: HUNT OIL

WELL NO: ^{SE NW} FED. # 1-27

Location: Sec. 27 T. 35S R. 22E County: SAN JUAN

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-037-30812

CHECKED BY:

Petroleum Engineer: JKL

Director: _____

Administrative Aide: no spacing orders - wildcat - Ferner
from Genneco to Hunt (Genneco responsible for bond
with fed.) - spacing exception from Q/A line

APPROVAL LETTER:

Bond Required: Fed

Survey Plat Required:

Order No. _____

O.K. Rule C-3

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

Lease Designation Fed

Plotted on Map

Approval Letter Written

Hot Line

P.I.



Suite 1330, One Denver Place • 999 Eighteenth Street • Denver, Colorado 80202 • 303/893-8030

August 30, 1982

Division of Oil, Gas and Minerals
4241 State Office Building
Salt Lake City, UT 84114

Attn: Mr. Norm Stout

RE: EXCEPTION LOCATION
FEDERAL #1-27 (U-23144)
SENW 27-T35S-R22E
SAN JUAN COUNTY, UTAH

Gentlemen:

It has just come to my attention that in order to complete our application for an exception to the spacing rule, we must provide proof that Hunt Oil Company will have a working interest in the above-captioned leasehold.

Enclosed please find a copy of our Letter Agreement with Tenneco Oil Company setting out the terms of our negotiations. A formal contract has been prepared by Tenneco and is presently being circulated within that company for administrative approval.

I trust this enclosure will satisfy your needs. If not, or if I can provide further information, please contact me at the above address/telephone.

Very truly yours,


Gretchen R. Henstorf
Landman

GRH:rl
Enclosure

RECEIVED
SEP 02 1982

DIVISION OF
OIL, GAS & MINING

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: SALT LAKE CITY
SERIAL NO.: U-23144

and hereby designates

NAME: HUNT OIL COMPANY
ADDRESS: 999 18th Street, Suite 1330
Denver, CO 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 35 South; Range 22 East

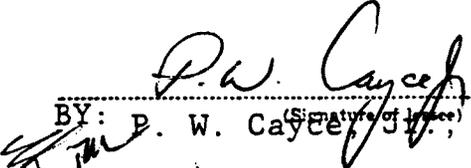
Section 27: NW/4

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

TENNECO OIL COMPANY

BY:  P. W. Cayce, Jr., Attorney-in-fact

August 31, 1982

(Date)

PO Box 3249, Englewood Co 80155

(Address)

Tenneco Oil Company

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado



July 27, 1982

Hunt Oil Company
One Denver Place
999 18th Street, Suite 1330
Denver, CO 80202

Attn: Gretchen Henstorf

RE: Amendatory Letter WRM-17-82
Farmout; Devil Canyon Area
T35S, R22E
Section 27; All
Section 28; NE/4, N/2 SW/4
San Juan County, Utah

Gentlemen:

Please reference your letter dated July 14, 1982 by which clarification of mutually agreed terms and conditions of our farmout agreement was made. Tenneco accepts the terms of said letter agreement with the following changes and additions:

- 1) Contract depth shall be 6100' or a depth sufficient to adequately test the Desert Creek formation, whichever is the lesser.
- 2) Tenneco shall pay all rentals and bill Hunt for 100% of rentals due on lands contributed to this farmout by Tenneco, until Hunt has earned an interest in the acreage at which time Hunt will pay their proportionate share of rentals
- 3) ~~Tenneco~~ Tenneco make no warranty of title to any leasehold contributed by this agreement.
- 4) Initial test well shall be completed within 90 (ninety) days from commencement. The term completion shall mean abandonment or having equipped the well in a manner such that the well is producible.
- 5) Options shall be granted for commencement within 90 (ninety) days from rig release of the previous well, rather than 90 (ninety) days from completion as stated
- 6) Hunt shall not assign the agreement without prior written consent from Tenneco.
- 7) Tenneco shall retain a call on any or all production from leasehold contributed by it hereunder.

- 8) With regard to the Joint Operating Agreement, overhead fixed rates will be \$5,000.00 drilling, \$400.00 producing.
- 9) Hunt shall furnish to Tenneco copies of all logs, cores, drilling reports and reports submitted to governmental agencies pertaining to wells subject to this agreement.
- 10) If the federal unit is formed, payout of an earning test well shall be based on unit production allocated to the well's established participating area rather than actual well production.
- 11) The letter agreement dated July 14 and this amendatory letter shall be superseded by a formal farmout agreement with attached exhibits to be executed by the parties signatory hereto prior to test well drilling.

Please indicate your acceptance of these changes by executing in the spaces provided below.

Sincerely,

TENNECO OIL COMPANY

P.W. Cayce Jr.
P.W. Cayce
General Manager
Western Rocky Mountain Division

Agreed to and accepted this 30 day of July, 1982

by: *E.G. Mickel*
Edward G. Mickel - Western Division Manager
PWC/RK/bbm

Tenneco Oil Company

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Delivery Address:
6061 South Willow Drive
Englewood, Colorado

September 3, 1982

Minerals Management Service
1745 West, 1700 South
Suite 2000
Salt Lake City, UT 84104

Attn: Bill Martin

RE: Hunt Oil Company
Federal 1-27 Well
Township 35 South, Range 22 East
Section 27: NW/4
San Juan County, UT
USA U-23144
C-18884

Gentlemen:

Attached herewith for your further processing please find four (4) originally executed copies of Designation of Operator from Tenneco Oil Company to Hunt Oil Company.

Sincerely,

TENNECO OIL COMPANY

A handwritten signature in cursive script that reads "Ronald J. Kapavik".

Ronald J. Kapavik
Petroleum Landman

RJK/lh
Enc.

✓ cc: State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Attn: Mr. Norm Stout

RECEIVED
SEP 08 1982

DIVISION OF
OIL, GAS & MINING

September 9, 1982

Hunt Oil Company
100 North 27th Street, Suite 550
Billings, Montana 59101

Re: Well No. Federal #1-27
SE NW, Sec. 27, T. 35S, R. 22E.
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), 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:

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

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 43-037-30812.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/cf
cc: Minerals Management Service
Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MINERALS MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
U-23 04 & GAS OPERATIONS RECEIVED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NO. AND DATE
- Aug 31 1982

8. FARM OR LEASE NAME
Federal

9. WELL NO.
1-27

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T35S, R22E

12. COUNTY OR PARISH 13. STATE
San Juan Utah

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
HUNT OIL COMPANY

3. ADDRESS OF OPERATOR
100 North 27th Street, Suite 550, Billings, Montana 59101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
2219' FNL & 1853' FWL SENW Sec. 27, T35S, R22E
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
5 miles Northwest of Blanding, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1853'

16. NO. OF ACRES IN LEASE
1280

17. NO. OF ACRES ASSIGNED TO THIS WELL
640

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

19. PROPOSED DEPTH
6270'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6730' GR

22. APPROX. DATE WORK WILL START*
September 29, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13-3/8"	48#	60' Conductor	50 cu. ft. Redimix
12 1/4"	8-5/8"	24#	1250'	1031 cu. ft. cement
7-7/8"	5 1/2"	15.50#	6270'	500 cu. ft. cement

Ten-point compliance program attached.

RECEIVED
SEP 14 1982

DIVISION OF
OIL, GAS & MINING

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 D. G. Trich D. G. Trich TITLE District Superintendent DATE August 30, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE E. W. Guynn
APPROVED BY WT McArthur for District Oil & Gas Supervisor DATE SEP 13 1982
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

State of G

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL
DATED 1/1/80

MAP A

R22E

N 89° 59' E (GLO NOTES)

N 0° 02' W (GLO NOTES)



T35S

ELEV. BASIS:
VABM PORTER
ELEV. 7203 (NCIC)
IN THE SW/4 SE/4
20-35S-22E
SALT LAKE PM

ELEV. 6730'

27

FD. PIN & CAP
AS PER
GLO NOTES

FD PIN & CAP
AS PER GLO
NOTES

FD PIN & CAP
AS PER
GLO NOTES

1853'
89° 59'

~ 2219'

3061'
2642'

SCALE: 1" = 1000'

Flatirons Surveying, in accordance with a request from Hunt Oil Company, has determined the location of Hunt Oil's Hunt Federal 1-27 to be ~2219' FNL, 1853' FWL, Section 27, T35S, R22E, Salt Lake Principal Meridian, San Juan County, Utah.



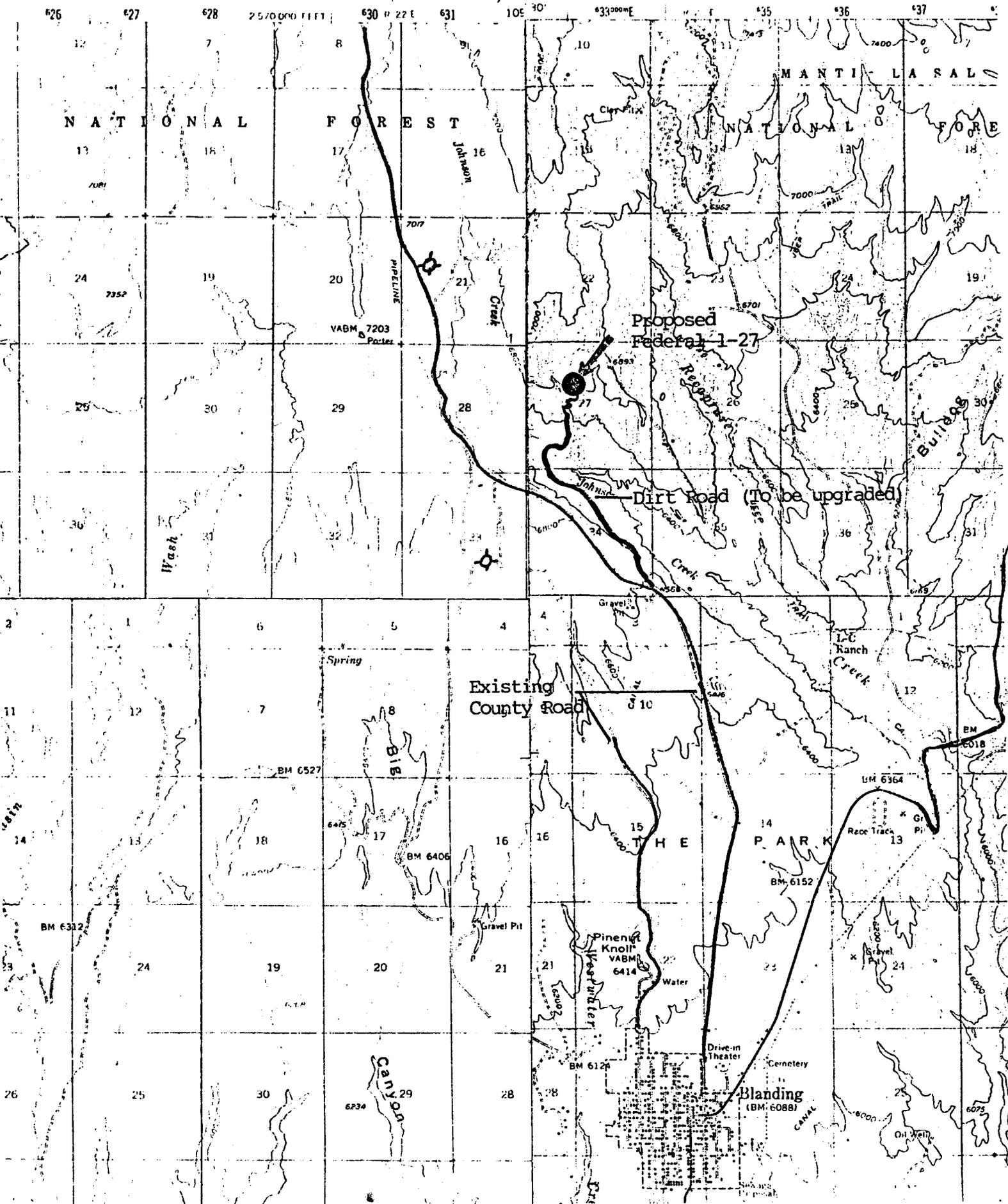
FLATIRONS SURVEYING

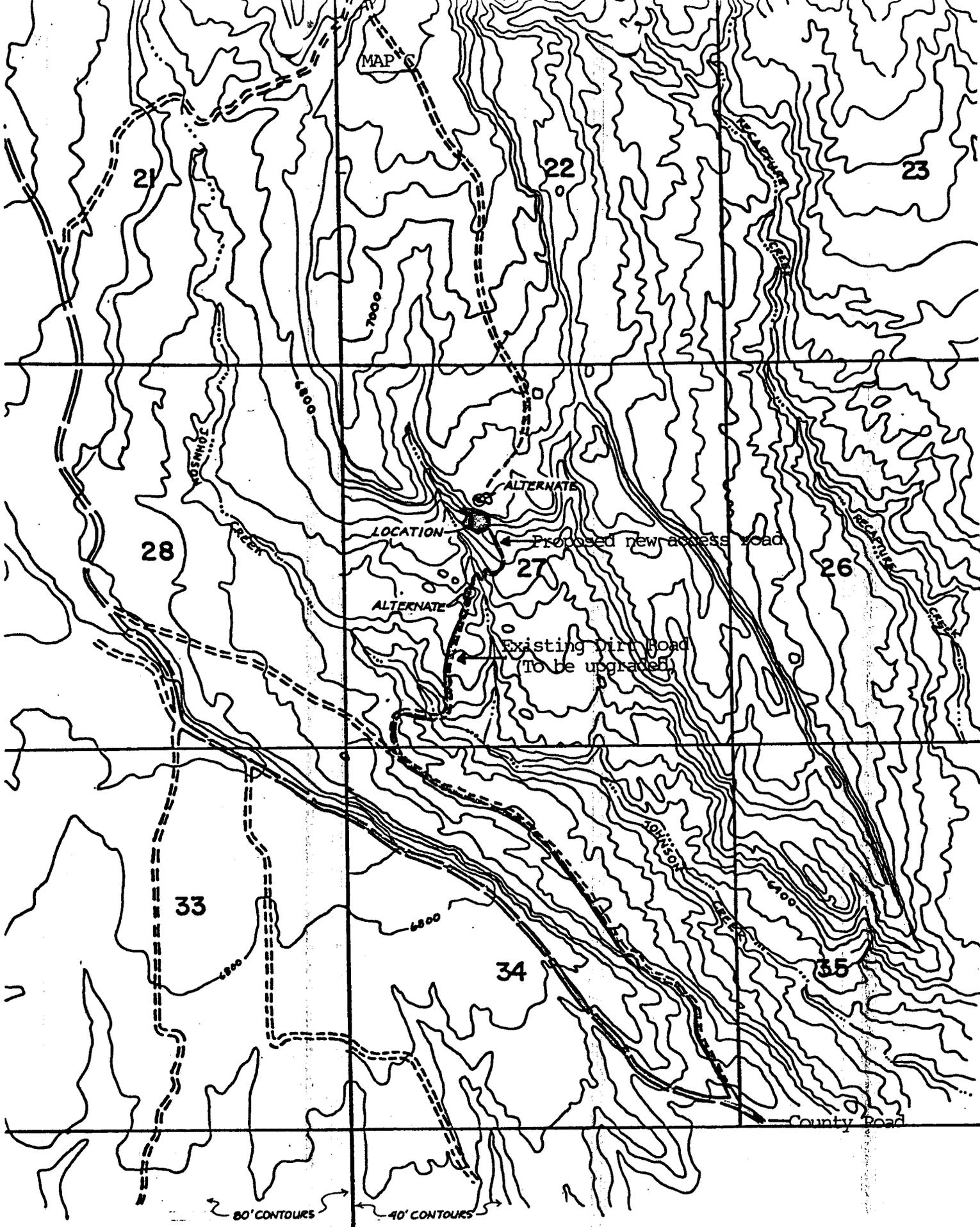
855 Broadway
Boulder, Colorado 80302

MAP B

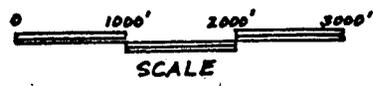
BRUSHY BASIN WASH QUADRANGLE
UTAH-SAN JUAN CO.
15 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY





==== EXISTING ROAD
----- ROAD TO BE CONSTRUCTED



230 - 1800 FWL

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS RECEIVED
Identification No. 471-82
SEP 13 1982

United States Department of the Interior
~~Geological Survey~~ Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Hunt Oil Company
Project Type single zone oil exploration well
Project Location 2219 FNL/1853' FWL, sec. 27, T. 35S, R. 22E.
Well No. 1-27 Federal Lease No. U-23144
Date Project Submitted _____

1960' FWL
2140' FWL

SE NW ③ or NE SW ①

SE NW ③ East

1819' FNL
1848' FWL

Sum Jan County, Utah

FIELD INSPECTION

Date August 17, 1982

Field Inspection Participants

✓ Dick Trish / - Hunt Oil Co.
Carl Hunt - Hunt Construction Co.
Brian Wood - Bureau of Land Management
Stan Zawistowski - geologist, Hunt Oil Co.
Kent Gilbert - agent for Hunt Oil Co.
Mike Moore / Nena Powell / Andrea Jarns - Flat Irons Surveyors
Don Englishman - Minerals Management Service

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

August 17, 1982
Date Prepared

Donald Englishman
Environmental Scientist

I concur

SEP 13 1982
Date

W. W. Mantua
FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

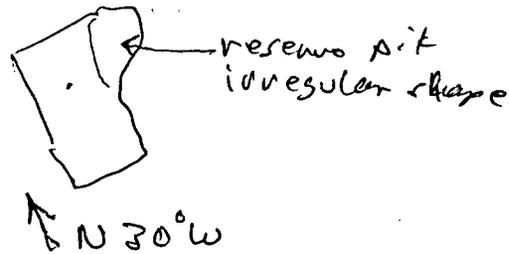
Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety						✓ 4	✓		(
2. Unique charac- teristics							✓		
3. Environmentally controversial							✓		
4. Uncertain and unknown risks							✓		
5. Establishes precedents							✓		
6. Cumulatively significant							✓		(
7. National Register historic places	✓ 1								
8. Endangered/ threatened species	✓ 1								
9. Violate Federal, State, local, tribal law						✓ 4	✓		

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

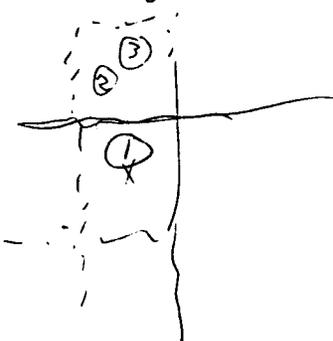
1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

Remarks:

1. Water source from private sources in Blanding, Utah
2. Location moved from as original stated by surveyor to find more favorable location
3. Pool orientation:



Location 1: ① Northdax due to topography
2: orthodax
3: orthodax



Date _____

EA No. 471-82

CER/EA Pre-Drill Environmental Evaluation

Inspection date(s): August 17, 1982

Project Location: HUNT OIL CO. 1-27 Federal
(operator) (well no.)

'F L, 'F L, NESW (1/4 1/4)
Sec. 27, T. 35S, R. 22E, San Juan County, Utah

Environmental Criteria

1. Public health and safety:

Impacts to local environment by rig/equipment - NO

Impacts by environment to rig/equipment - NO

Safety hazards - NO

Misc. impacts - NO

Determination - (negligible) adverse effect)

Effect: (Significance)

Alternatives -

2. Unique characteristics:

Wilderness Study Area? No X Yes (Number)

Historic or Cultural Resources? No X Yes (arch. report)

Park, Recreation, and/or Refuge? No X Yes (describe)

Wild and Scenic Rivers? No X Yes (Identify)

Sole or Principal Drinking Water Aquifers? No X Yes (ME report)

Prime Farmlands? No X Yes (Describe, D of A report)

Wetlands, Floodplains? No X Yes (10, 50, 100/yr? _____, Corp of Engineers 404 permit? _____ WRC guidelines)

Ecologically Significant/Critical Areas? No X Yes (i.e. winter range, strutting, spawning, breeding, fawning grounds?; range study area?; Nat'l Register of Historic Landmarks?; visual resource area?) NO

Other -

Determination - (negligible) adverse effect)

Alternatives -

3. Environmentally Controversial:

Source of controversy - NO
Issues - _____
Facts - _____
Alternatives - _____
Decisions (if any) - _____

4. Uncertain and Unknown Risks: (Refer to APD, ME)

H2S potential - (ME report, well histories) NO
High pressures - NO
Landslides/slumps - NO
Unstable soils - (soil surveys) NO
Severe topography - (slope %, % side slopes, rim rock, etc) NO
Flash flood hazard - yes - bottom of canyon - road comes down from top of canyon rim
Lost circulation potential - (history of wells in area, peculiar geologic features, ie, shear zones) NO
Potential fresh water aquifers - (ME report, extension of surface casing, use of intermediate casing, protection requirements) NO
Zones of other mineral deposits - (ME report, protection requirements) - NO
Buried pipelines, water lines, cable - NO
Overhead power/telephone lines - NO
Irrigation channel(s) - NO
Determination - (negligible)/adverse effect)
Alternatives - _____

5. Establishes precedent:

Nature of precedent - (ie, first well drilled in Nat'l Recreation Area, significance, effects) NO
Determination - (negligible)/adverse effect)
Alternatives - _____

6. Cumulatively significant:

Will the addition of this one well and access route when weighed against all currently existing environmental conditions, be cumulatively significant enough to be considered as constituting a major federal action? No X Yes _____
Determination - negligible
Significance - _____
Alternatives - _____



IN REPLY
REFER TO:

United States Department of the Interior

35-22-27
(U-069)

BUREAU OF LAND MANAGEMENT

Moab District
San Juan Resource Area
P. O. Box 7
Monticello, Utah 84535

Memorandum

September 9, 1982

To: Minerals Management Service, Salt Lake City, Utah
From: Area Manager, San Juan
Subject: Hunt Oil's Federal 1-27 (U-23144)

We concur with approval of the Application for Permit to Drill. We have received a copy of the reclamation agreement between Hunt and the surface owner.

The archaeological requirement has been fulfilled. No threatened or endangered species are indicated.

Edward S. Scherich

✓ cc: Minerals Management Service, Durango, Colorado

RECEIVED
SEP 9 1982

MINERALS MANAGEMENT SERVICE
DURANGO, CO

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: HUNT OIL COMPANY

WELL NAME: Federal #1-27

SECTION SESW 27 TOWNSHIP 35S RANGE 22E COUNTY San Juan

DRILLING CONTRACTOR Coleman

RIG # 3

SPUDDED: DATE 9-30-82

TIME 11:00 AM

HOW Dry Hole drigger - L.C. Jones

DRILLING WILL COMMENCE _____

REPORTED BY Arkie Browning

TELEPHONE # _____

DATE 9-30-82 SIGNED RJF

NOTICE OF SPUD

Company: Hunt Oil Company

Caller: J. A. Browning

Phone: _____

Well Number: 1-27

Location: SE NW 27-355-22E

County: San Juan State: Utah

Lease Number: U-23144

Lease Expiration Date: 9-30-82

Unit Name (If Applicable): NA

Date & Time Spudded: 11 AM 9-30-82

Dry Hole Spudder/Rotary: Dry Hole -

Details of Spud (Hole, Casing, Cement, etc.) Setting 120'

13 3/8 - Jones Drilling

Big rig - Coleman #3 - will move on tomorrow

Rotary Rig Name & Number: _____

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: W. J. Nutter

Date: 9-30-82

file
State OK ✓
MMS Vernal
Teresa
Diane

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator Hunt Oil Company Representative Dick Trich

Well No. 1-27 Location SE 1/4 NW 1/4 Section 27 Township 35S Range 22E

County San Juan Field Wildcat State Utah

Unit Name and Required Depth _____ Base of fresh water sands _____

T.D. 6595' Size hole and Fill per sack _____ " _____ ' and Top _____ #/gal. _____ ' _____

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
_____	_____	_____	_____	1. 6400'	6200'	As necessary
_____	_____	_____	_____	2. 4800'	4600'	As necessary
<u>Formation</u>	<u>Top</u>	<u>Base</u>	<u>Shows</u>	3. 300' plus in & out of intermediate casing - Cmt. as necessary		
_____	_____	_____	_____	4. 50 sacks @ surface.		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

REMARKS

DST's, lost circulation zones, water zones, etc., _____

Plugging program provided and approved by M.M.S. _____

Approved by R. J. Firth Date 10/20/82 Time _____ a.m. p.m.

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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other Dry hole

2. NAME OF OPERATOR
HUNT OIL COMPANY

3. ADDRESS OF OPERATOR 59101
100 N. 27 Street, Suite 550, Billings, MT

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2219' FNL & 1853' FWL, SENW, sec. 27
AT TOP PROD. INTERVAL: Same T35S, R22E
AT TOTAL DEPTH: Same

5. LEASE
U-23144

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
FEDERAL

9. WELL NO.
1-27

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T35S, R22E

12. COUNTY OR PARISH San Juan 13. STATE Utah

14. API NO.
43-037-30812

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6746' DF, 6749' KDB, 6735' GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>		<input type="checkbox"/>
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

October 21, 1982:
Set cement plugs @ First Plug: 6,400' - 6,200' with 60 sacks
Second Plug: 4,800' - 4,600' with 60 sacks
Third Plug: 2,400' - 2,100' with 90 sacks
Fourth Plug: 150' to Surface with 50 sacks

Cut off 8-5/8" Casing Head and weld on plate.

Subsurface Safety Valve: Manu. and Type N/A Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct.
SIGNED: D.G. Trich DISTRICT Superintendent DATE October 22, 1982

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONFIDENTIAL

5. LEASE
U-23144

INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
FEDERAL

9. WELL NO.
1-27

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T35S, R22E

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

14. API NO.
43-037-30812

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6746'DF, 6749'KDB, 6735'GL

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other Dry Hole

2. NAME OF OPERATOR
HUNT OIL COMPANY

3. ADDRESS OF OPERATOR
100 N. 27 St., Suite 550, Billings, MT 59101

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2219' FNL & 1853' FWL, SENW, sec. 27
AT TOP PROD. INTERVAL: Same T35S, R22E
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

October 21, 1982: Cement plugs set at 6,400' - 6,200' with 60 sacks
 4,800' - 4,600' with 60 sacks
 2,400' - 2,100' with 90 sacks
 150' to surface with 50 sacks
 8-5/8" Casing Head cut off and a plated welded at the top.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING**

DATE: 10/29/82
BY: [Signature]

Subsurface Safety Valve: Manu. and Type N/A Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District _____
SIGNED [Signature] D. G. Trich TITLE Superintendent DATE October 29, 1982

(This space for Federal or State office use)

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

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

SUBMIT IN DUPLICATE
(See other instructions on reverse side)

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

M
6

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 Plug & Abandon

2. NAME OF OPERATOR
HUNT OIL COMPANY

3. ADDRESS OF OPERATOR
100 North 27 Street, Suite 550, Billings, Montana 59101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2219' FNL & 1853' FWL, SENW, Sec. 27, T35S, R22E
At top prod. interval reported below
Same as above
At total depth
Same as above

14. PERMIT NO. 43-037-30812 DATE ISSUED 9-13-82

5. LEASE DESIGNATION AND SERIAL NO.
U-23144

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Federal

9. WELL NO.
1-27

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 27, T35S, R22E

12. COUNTY OR PARISH San Juan 13. STATE Utah

15. DATE SPUNDED 9-30-82 16. DATE T.D. REACHED 10-20-82 17. DATE COMPL. (Ready to prod.) 10-21-82 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6746' DF, 6749' KDB, 6735' GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6,595' TD 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY ROTARY TOOLS 0' - 6,595' CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
- 25. WAS DIRECTIONAL SURVEY MADE
yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
CNL-FDS, DIL, BHC-Sonic and Dipmeter 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
13-3/8"	48#	128'	17 1/2"	200sks Class G & 2% CACL ₂	None
8-5/8"	24#	2,217'	12 1/4"	1100sks BJ Lite w/1/4#/sk Flocele. Tail in w/200sks Class B w/2% CACL ₂ .	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

N/A

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A	

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE 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 D. G. Trich TITLE District Superintendent DATE Oct. 29, 1982

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 23: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	DESCRIPTION, CONTENTS, ETC.	BOTTOM
Desert Creek	6,280'	No water cushion used. Tool open 15 and 90 minutes. Initial flow pressure 26 -53, ISI: 2085, FF: 79-158, FSI: 2204. Drill pipe recovery: 70' Drilling mud, 220' very slightly gas cut mud cut salt water and 70' salt water. Sample chamber recovery: 2240cc of salt water and .5 cu. ft. gas.	6,315'
NAME			
MEAS. DEPTH			
TOP			
TRUM VERT. DEPTH			
	Surface		+6475
	Morrison		+6345
	Summerville		+6200
	Entrada		+6110
	Carmel		+5625
	Navajo		+5395
	Kayenta		+5085
	Wingate		+4085
	Chinle		+3750
	Shinarump		+3660
	DeChelley		+2710
	Organ Rock		+1900
	Cutler Evap		+1135
	Upper Hermosa		+965
	Honaker Trail		+820
	Upper Ismay		+760
	Hoovenweep Shale		+690
	Lower Ismay		+630
	Gothic Shale		+545
	Desert Creek		+520
	Chimney Rock Sh		+480
	Akah		+480
	Salt		+480

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

DIVISION OF
OIL, GAS & MINING

NOV 04 1982

RECEIVED

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number FEDERAL #1-27
Operator Hunt Oil Company Address 100 North 27th Street, Suite 550,
Contractor Coleman Drilling Co. Address Billings, Montana 59101
Drawer 3337, Farmington, NM 87401
Location SE 1/4 NW 1/4 Sec. 27 T: 35S R. 22 County San Juan

Water Sands *NO APPARENT WATER SANDS -*

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Continue of reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.