

UTAH OIL AND GAS CONSERVATION COMMISSION

M

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/abd. _____

App. rescinded 5.6.85

DATE FILED 5-11-83

LAND: FEE & PATENTED STATE LEASE NO.

PUBLIC LEASE NO. U-50393

INDIAN

DRILLING APPROVED: 5-12-83 OIL

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LA 5.6.85

FIELD: Wildcat 3/86

UNIT:

COUNTY: Grand

WELL NO. Dead Horse Federal 20-1

API #43-019-31062

LOCATION 660 FT. FROM XX(S) LINE.

660

FT. FROM X(W) LINE.

SWSW

1/4 - 1/4 SEC. 20

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
26S	20E	20	ENSERCH EXPLORATION, INC				

**ENSERCH
EXPLORATION** INC.

1230 River Bend Drive
Suite 136
Dallas, Texas 75247
214/630-8711

May 9, 1983

State of Utah
Department of Natural Resources & Energy
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Re: Application for Permit to Drill
Dead Horse Federal No. 20-1
Section 20 - T26S-R20E
Grand County, Utah

Gentlemen,

Enclosed please find two (2) copies of the APD - NTL6 for the captioned well which was submitted to the Bureau of Land Management-Minerals Management Service on March 28, 1983 and approved on April 28, 1983. These copies will serve as application for State approval to drill this well.

If this application meets your approval please notify us of such, and if there are any questions or if additional information is required, please do not hesitate to call.

Very truly yours,



R. S. Brashier
Regional Drilling Engineer

RSB/hrs

Attachment

RECEIVED
MAY 11 1983

**DIVISION OF
OIL, GAS & MINING**

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
 D. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Enserch Exploration, Inc.
 3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1230 River Bend Drive - Suite 136 - Dallas, Texas 75247
 660' FSL & 660' FWL of Section 20-T26S-R20E (SW $\frac{1}{4}$ -SW $\frac{1}{4}$)
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 4-1/2 miles west of Potash, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'
 16. NO. OF ACRES IN LEASE 480

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None
 17. NO. OF ACRES ASSIGNED TO THIS WELL 160
 19. PROPOSED DEPTH 8300'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GR - 6022'

22. APPROX. DATE WORK WILL START*
 November 15, 1983

5. LEASE DESIGNATION AND SERIAL NO.
 U-50393
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A
 7. UNIT AGREEMENT NAME
 N/A
 8. FARM OR LEASE NAME
 DEAD HORSE FEDERAL
 9. WELL NO.
 20-1
 10. FIELD AND POOL, OR WILDCAT
 WILDCAT
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 20, T26S-R20E
 S.L.B.&M.
 12. COUNTY OR PARISH GRAND
 13. STATE UTAH

DEVONIAN-ELBERT

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	350'	350 sacks
12-1/4"	9-5/8"	40#	4500'	700 sacks
8-3/4"	5-1/2"	15.5# & 17#	8300'	600 sacks

Propose to drill a 17-1/2 inch hole to 350 feet, set 13-3/8 inch casing and cement to surface. Drill a 12-1/4 inch hole to 4500 feet; set 9-5/8 inch casing and cement back to 2000 feet. Drill an 8-3/4 inch hole to 8300 feet T.D., log and run 5-1/2 inch production casing and cement back to 6400 feet.

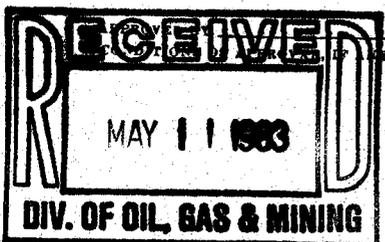
EXHIBITS ATTACHED

- (a) 10 Point Drilling Plan
- (b) Blowout Preventer Diagram Exhibit A
- (c) 13 Point Surface Use Plan
- (d) Location and Elevation Plat
- (e) Drilling Rig Layout and Cross Sections
- (f) Existing Roads - Topo Map A
- (g) Planned Access Road - Topo Map B
- (h) Existing Wells - Topo Map C
- (i) Production Facilities - Exhibit B
- (j) Cultural Resources Inventory
- (k) Designation of Operator
- (l) Bonding Requirements

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 C. H. Peoples TITLE Regional Drilling Manager DATE March 28, 1983
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____



APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 5-12-83
 BY: Norman L. Stout

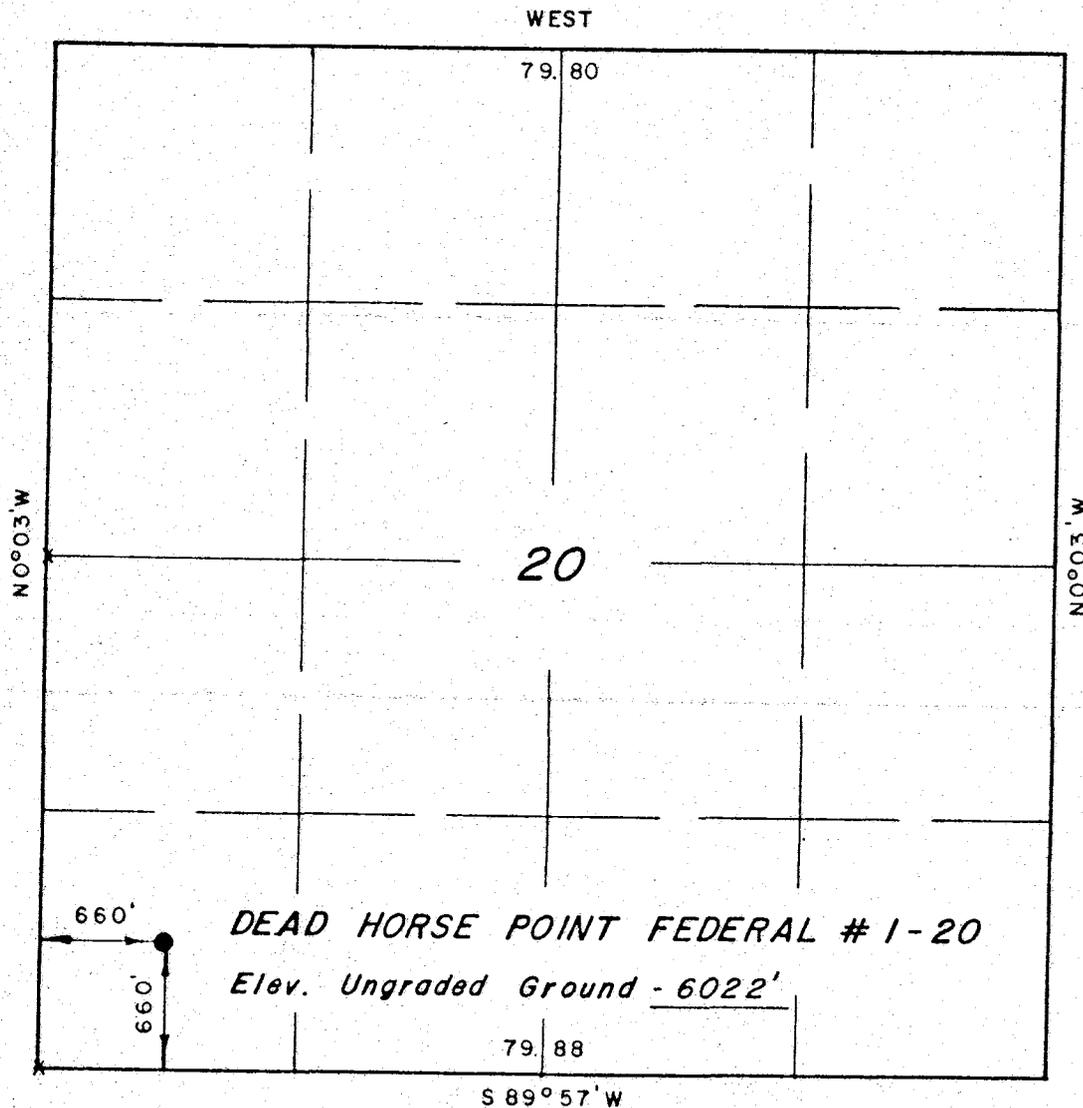
*See Instructions On Reverse

PROJECT

ENSERCH EXPLORATION INC.

Well location, *DEAD HORSE POINT FEDERAL #1-20*, located as shown in the SW 1/4 SW 1/4 Section 20, T 26 S, R 20 E, S.L.B.&M. Grand County, Utah.

T 26 S, R 20 E, S.L.B.&M.



X = Section Corners Located



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.

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	1/12/83
PARTY	RT. T.J. S.B.	REFERENCES	GLO Plat
WEATHER	Cold	FILE	ENSERCH

INSERCH EXPLORATION INC.
DEAD HORSE POINT FED. 1-20
PROPOSED LOCATION

TOPO. MAP "A"



SCALE - 1" = 4 MILES



PROPOSED LOCATION

CANYONLANDS NATIONAL PARK

ARCHES NATIONAL MONUMENT

COURTHOUSE PASTURE

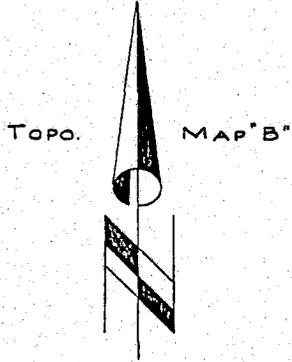
ARTH'S PASTURE

SODA SPRINGS BASIN

BEHIND THE ROCKS

LOOKING AT GLASS ROCK

ENSERCH EXPLORATION INC.
DEAD HORSE POINT FED. #1-20
PROPOSED LOCATION



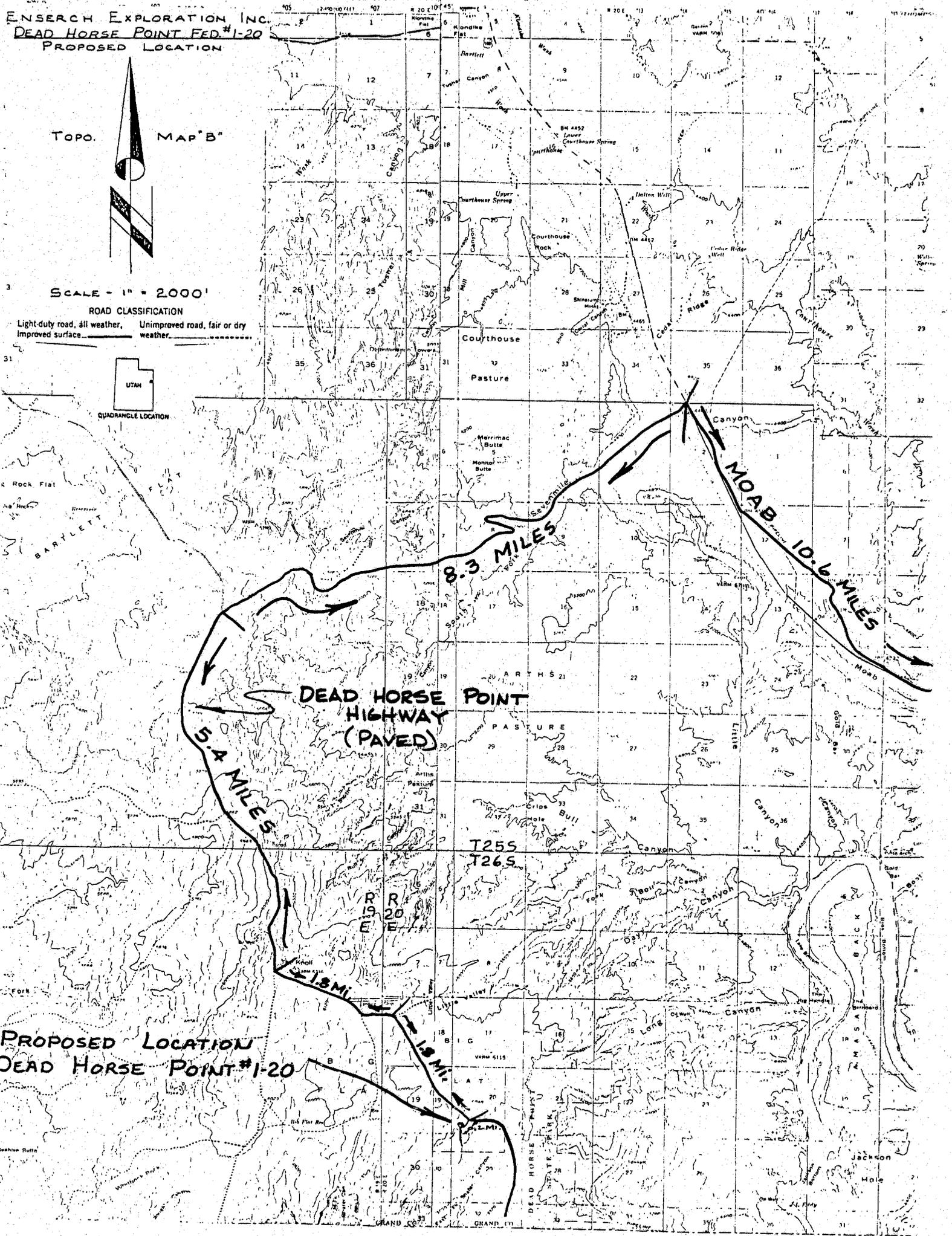
SCALE - 1" = 2000'

ROAD CLASSIFICATION

Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather



QUADRANGLE LOCATION



PROPOSED LOCATION
DEAD HORSE POINT #1-20

DEAD HORSE POINT
HIGHWAY
(PAVED)

MOAB 10.6 MILES

8.3 MILES

5.4 MILES

T255
T265

R 19 E
R 20 E

1.8 Mi.

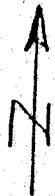
1.8 Mi.

JACKSON HOLE

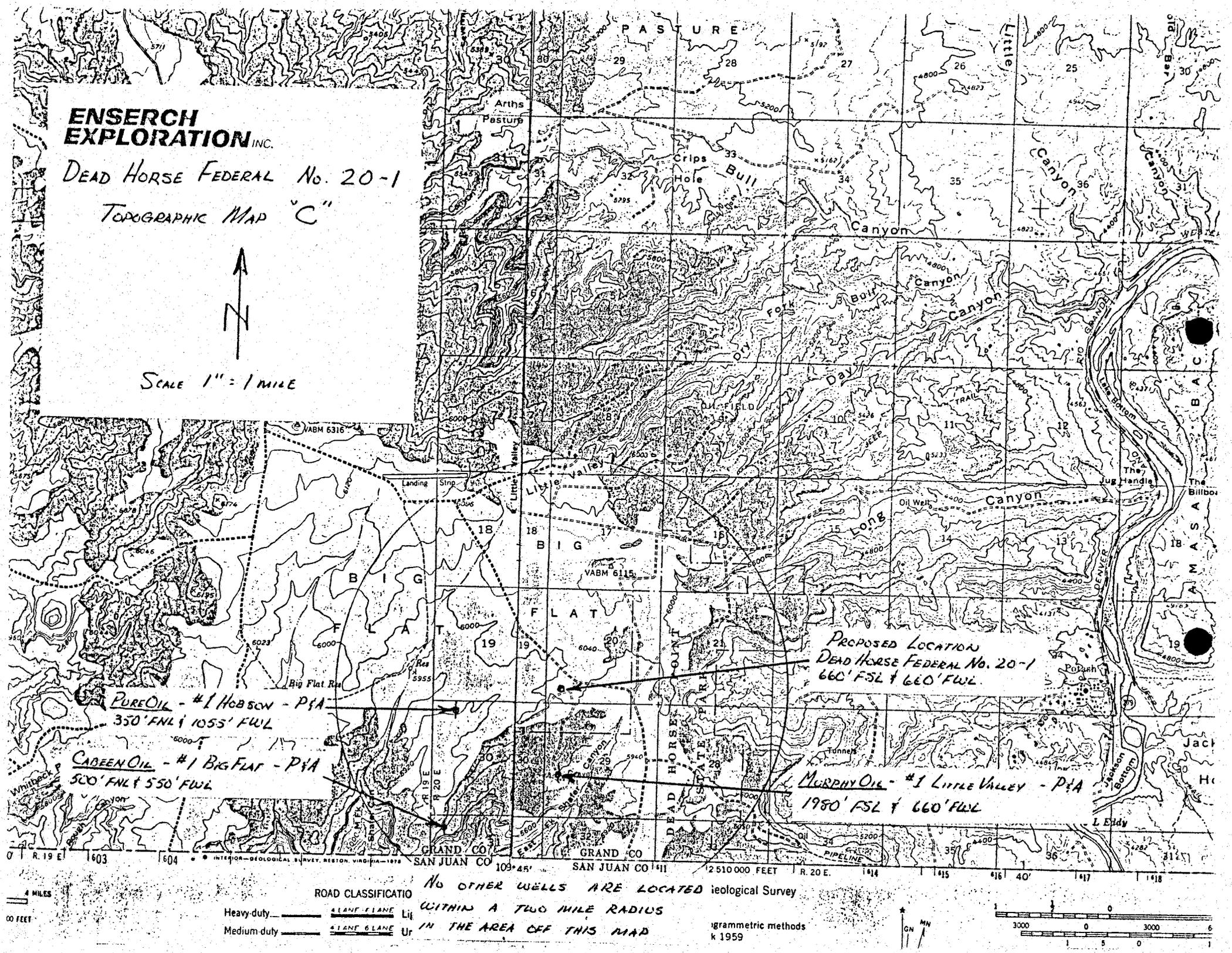
ENSERCH EXPLORATION INC.

DEAD HORSE FEDERAL No. 20-1

TOPOGRAPHIC MAP "C"



SCALE 1" = 1 MILE



PURE OIL - #1 HOBSON - P/A
350' FSL & 1055' FWL

CABEEN OIL - #1 BIG FLAT - P/A
500' FSL & 550' FWL

PROPOSED LOCATION
DEAD HORSE FEDERAL No. 20-1
660' FSL & 660' FWL

MURPHY OIL - #1 LITTLE VALLEY - P/A
1980' FSL & 660' FWL

0' R. 19 E. 1603 1604 INTERIOR- GEOLOGICAL SURVEY, RESTON, VIRGINIA-1978 SAN JUAN CO. 109° 45' W. SAN JUAN CO. 111 2510 000 FEET R. 20 E. 1614 1615 1616 40' 1617 1618

4 MILES ROAD CLASSIFICATION Heavy-duty _____ 4 LANE FLANE Lit Medium-duty _____ 2 LANE FLANE Ur
No OTHER WELLS ARE LOCATED geological Survey WITHIN A TWO MILE RADIUS IN THE AREA OF THIS MAP
ogrammetric methods k 1959

ENSERCH EXPLORATION, INC.
10 POINT DRILLING PLAN
FOR
DEAD HORSE FEDERAL NO. 20-1
LOCATED IN
SECTION 20 - T26S-R20E, S.L.B.&.M
GRAND COUNTY, UTAH

Enserch Exploration, Inc.
 Dead Horse Federal No. 20-1
 Section 20-T26S-R20E - S.L.B.&M.
 Grand County, Utah

1. GEOLOGICAL SURFACE FORMATION

Formation: Navajo Sandstone
 Period: Lower Jurassic
 Era: Mesozoic

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS

<u>FORMATION</u>	<u>DEPTH</u>
Navajo	Surface
Chinle	500'
Moenkopi	854'
Cutler	1364'
Hermosa	2200'
Paradox Salt	4200'
Cane Creek	7190'
Base of Salt	7412'
Mississippian Leadville	7500'
Mississippian Madison	7710'
Devonian Ouray	8100'
Devonian Elbert	8210'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>FORMATION</u>	<u>DEPTH</u>	<u>REMARKS</u>
Chinle	500'	Uranium Bearing
Paradox Salt	4200'	Salt and/or Salt Water
Cane Creek	7190'	Oil
Mississippian Leadville	7500'	Oil
Mississippian Madison	7710'	Oil
Devonian Ouray	8100'	Oil
Devonian Elbert	8210'	Oil

4. PROPOSED CASING PROGRAM - MINIMUM REQUIREMENTS

<u>SIZE</u>	<u>GRADE</u>	<u>WEIGHT/FOOT</u>	<u>CONDITION</u>	<u>SETTING DEPTH</u>
13-3/8"	H-40	38#	New	0- 350'
9-5/8"	K-55	40#	New	0-4500'
5-1/2"	K-55	15.5#	New	0-4000'
5-1/2"	S-95	17#	New	4000-7600'
5-1/2"	N-80	17#	New	7600-8300'

If a salt water flow occurs when drilling the interval below 4500 feet, then the following casing will be run instead of the 5-1/2 inch casing:

7"	S-95	26#	New	4000-7500'
4-1/2"	N-80	11.6#	New	7300-8300'

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E - S.L.B.&M.
Grand County, Utah

5. BLOWOUT PREVENTION EQUIPMENT

Exhibit "A" is a schematic diagram of the minimum blow-out preventer requirements. The BOP's will be hydraulically tested to the full working pressure after nipling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period and blind rams checked each time pipe is pulled out of the hole.

Accessories to the BOP's include an upper and lower kelly cock, full opening safety valve and ckoke manifold with a pressure rating equivalent to the BOP stack. A rotating head will also be used when drilling the interval from 350 feet to 4500 feet.

6. PROPOSED CIRCULATING MEDIUM

The mud system will be gel-chemical with adequate stocks of sorptive agents and weight materials on site to handle any anticipated down-hole problems as well as possible spills of fuel & oil on the surface. Specifically, the following mud types are anticipated through the intervals indicated:

<u>DEPTH INTERVAL</u>	<u>MUD TYPE</u>	<u>MUD WEIGHT</u>	<u>VISCOSITY SEC/QT</u>	<u>WATER LOSS CC</u>
0- 350'	Water, Gel-Lime	8.4 - 9.0	28-50	NC
350-4500'	Air-Mist/Stable Foam			
<u>4500-8300'</u>	<u>Salt Saturated Starch and Salt Gel</u>	10.0 -12.0	35-45	15

7. AUXILIARY EQUIPMENT

- (a) A lower kelly cock will be kept in the string
- (b) A float will not be used at the bit
- (c) A full opening safety valve will be kept on the floor to be stabbed into the drill pipe when the kelly is not in the string.
- (d) A mud logging unit and gas detecting device will be used from 2500 feet to T.D. to monitor the mud system.
- (e) A pit level recorder and flow sensor will be used from 4500 feet to total depth
- (f) An H₂S Gas detection and monitoring system will be installed at 350' and will be operational for the remaining of the drilling of this well.
- (g) During air drilling operations a blooie line will be used. The line will be directed into a soil bank in the reserve pit at a point not less than 125 feet from the wellhead. A mist system will also be used so that dust cuttings will not cloud and disperse outside of the reserve pit area.

8. TESTING AND LOGGING PROGRAMS TO BE FOLLOWED

- (a) Drill Stem Tests will be run if shows are present in the Cane Creek at ~ 7200'; the Mississippian Leadville at ~ 7500' and the Mississippian Madison at ~ 7700'.
- (b) The logging program will consist of DLL/MSFL/GR, FDC/CNL/GR, and Sonic/GR from total depth to 4500'. Other logs will be determined at the well site to best evaluate any shows.
- (c) Two conventional 60' cores will be cut in the Mississippian Madison and Leadville formations.

9. ANTICIPATED ABNORMAL PRESSURES OR HAZARDS

High pressure salt water or oil-flows in the Paradox Salt are a common drilling problem in the area. These are extremely local in nature being related to the vagaries of fracturing and oil formation in what are generally almost impermeable shales confined between impermeable salt beds.

The pressures in these zones are ultimately unpredictable since most of the zones are very localized and the pressures are probably the result of in-situ petrogenesis. Most of the pressures have been such that they could be controlled with mud weights between 14 and 18 ppg.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area. However an H₂S gas detection and monitoring device will be in place and working from a depth of 350' to total depth. In the unlikely event that H₂S is encountered, the drilling operations will be stopped and a complete H₂S safety system and warning signs will be installed. An H₂S contingency plan will also be submitted to the M.M.S. and B.L.M., and approval obtained before drilling operations will continue.

10. THE ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

The anticipated starting date for the drilling of this well is not definite. However, due to the peak tourist season for the adjacent Dead Horse Point State Park and the rutting season for desert big-horn sheep, two operation windows have been agreed to by the State of Utah Parks and Recreation Department, Bureau of Land Management, Minerals Management Service and Enserch Exploration, Inc. These windows are: #1 - November 15 to March 15 and #2 - July 1 to September 1. Every effort will be made by Enserch Exploration, Inc to limit the construction and drilling of this well to these windows. The drilling operations should be completed within 60 days from spud, and the completion operations 30 days thereafter.

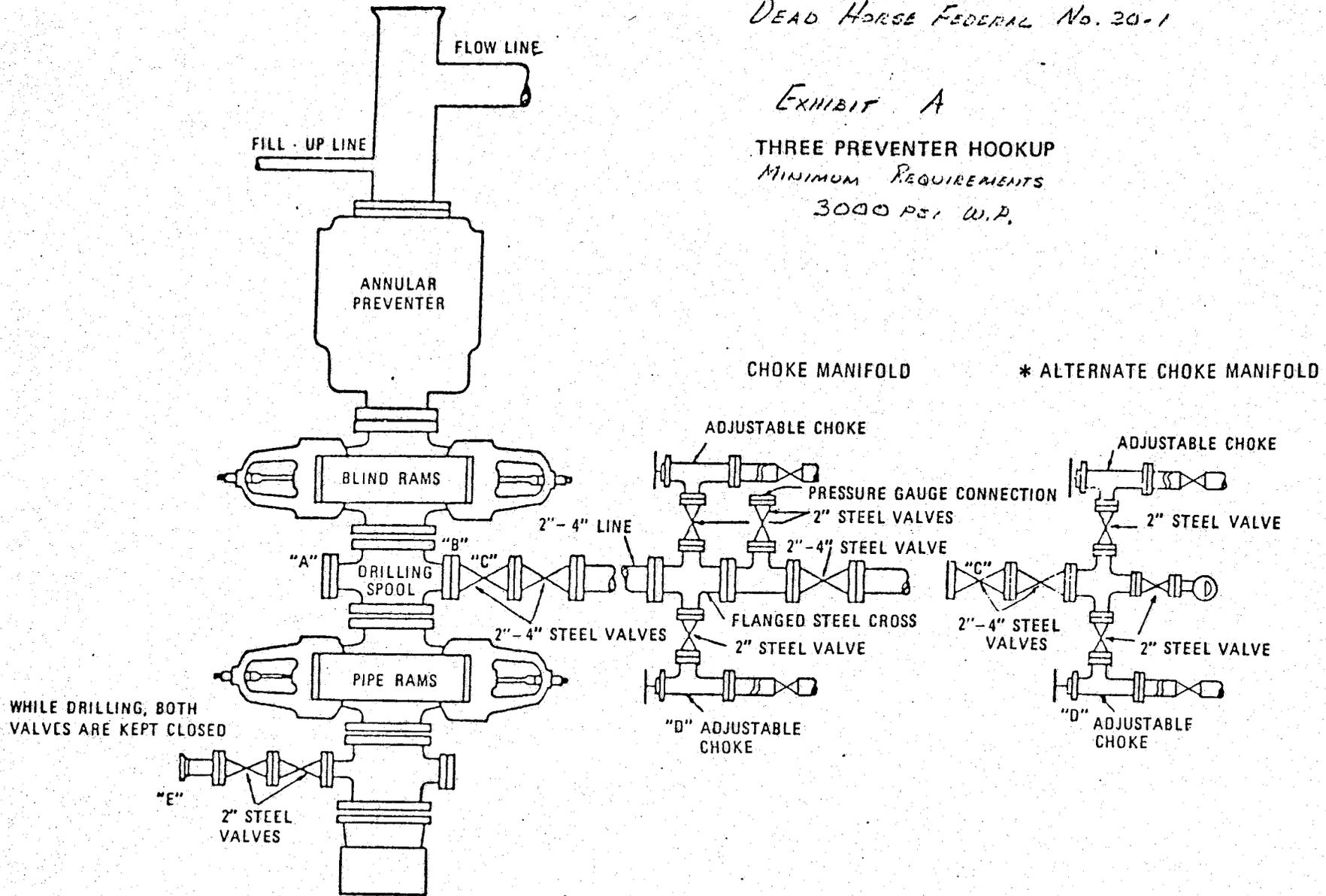
Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E - S.L.B.&M.
Grand County, Utah

10. THE ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS (cont'd)

It is clearly understood by all of those mentioned above that unforeseen delays may result during these operations (i.e. difficult fishing jobs, lost circulation, weather delays, etc.) and that an overlap at the end of the operating windows may result. If this occurs Enserch Exploration, Inc. will make every attempt to minimize the delay, but will not be required to suspend operations until the next operating window.

EXHIBIT A

THREE PREVENTER HOOKUP
 MINIMUM REQUIREMENTS
 3000 PSI W.P.



IF POSSIBLE, CASING SPOOL SHOULD
 BE POSITIONED SO THAT THESE
 VALVES ARE DIRECTLY UNDER THE
 BARREL OF THE RAM PREVENTER.

ENSERCH EXPLORATION, INC.
13 POINT SURFACE USE PLAN
FOR
DEAD HORSE FEDERAL No. 20-1 WELL
LOCATED IN
SECTION 20-T26S-R20E - S.L.B.&M.
GRAND COUNTY, UTAH

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E - S.L.B.&M.
Grand County, Utah

1. EXISTING ROADS

See Attached Topographic Map "A"

To reach Enserch Exploration Incorporated, well location site Dead Horse Federal No. 20-1 well, located in the SW $\frac{1}{4}$ -SW $\frac{1}{4}$ of Section 20-T26S-R20E - S.L.B.&M., Grand County, Utah:

Proceed North out of Moab, Utah along U.S. Highway 163, 10.6 miles to the Junction of this highway and Utah State Highway 313 to the West; proceed west along Utah State Highway 313, 17.5 miles (towards Dead Horse Point State Park) to the point that the planned access road leaves the existing road and proceeds in a southwesterly direction along an existing dirt road to the proposed location.

The Highways 163 and 313 mentioned above are asphalt surfaced roads and are maintained by state crews.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and production phase of this well. (At such time that production is established).

The roads that are required for access during the drilling phase, completion phase, and production phase of the well, will be maintained at the standards required by the Bureau of Land Management or other controlling agencies.

2. PLANNED ACCESS ROAD

The proposed access road is an existing dirt road that leaves Utah State Highway 313 in the SW $\frac{1}{4}$ - SW $\frac{1}{4}$ Section 20, T26S-R20E - S.L.B.&M. and proceeds in a southwesterly direction 0.2 miles from this point to the proposed location. The only improvement to this road will be at the road entrance at Utah State Highway 313, where a 24" x 20' culvert will be installed to minimize vehicle damage. The culvert will be removed at the completion of the drilling operations or permanently installed in the event of production. A Right-of-Way Encroachment Permit will be obtained from the Utah Department of Transportation for this culvert at the turn-off.

Improvement to the remainder of the existing road will not be necessary. The total disturbed width allowed will be as is. The allowable travel surface will be as is.

Warning signs will be placed 1000 feet north and south of the access road on U 313 that say "Slow Down - Truck Entrance" and on the turn off that says "Speed Limit 10 MPH - Authorized Personnel Only - No Firearms" or other verbage deemed appropriate by the Department of Transportation and B.L.M. These signs will be in place during dirt work, drilling and rehabilitation.

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E - S.L.B.&M.
Grand County, Utah

2. PLANNED ACCESS ROAD (cont'd)

Road upgrading will be necessary only in the event that production is established on Lease U-50393. The allowable travel surface width will be 20 feet and the total disturbed width will be 36 feet. The construction design will be to Class II Road Standards.

The grade along this road is relatively flat but will not exceed 8%. This road will be constructed from native borrow accumulated during its construction.

There will be no turnouts required along this road.

There are no fences encountered along this road, therefore no cattleguards will be required.

3. LOCATION OF EXISTING WELLS

There are wells located within a two mile radius of the proposed location for this exploratory well. See topographic Map "C" for the location of these wells relative to the proposed location site. (See location plat for placement of the Enserch Exploration, Inc. Dead Horse Federal No. 20-1 well location site within the section).

(1) Water Wells - None

(2) Abandoned Wells - 3 shown on Map "C"

Pure Oil - # 1 Hobson

350' FNL & 1055' FWL - Section 30-T26S-R20E

Completed: 1-29-58

Plugged and Abandoned: 7-23-65

Cabeen Oil - #1 Big Flat

500' FNL & 550' FWL - Section 31-T26S-R20E

Completed: 7-2-58

Plugged and Abandoned:

Murphy Oil - #1 Little Valley

1980' FSL & 660' FWL - Section 29-T26S-R20E

Completed: 8-24-60

Plugged and Abandoned:

(3) Temporarily Abandoned Wells - None

(4) Disposal Wells - None

(5) Drilling Wells - None

(6) Producing Wells - None

(7) Shut-in Wells - None

(8) Injection Wells - None

(9) Observation Wells - None

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

- A. There are no existing production facilities located within a 1-mile radius of the proposed location.
- B. In the event production is established, all new facilities will be contained within the proposed location site and will be located on the SW corner of the location.

Exhibit "D" is a proposed location layout showing the production facilities which are anticipated for this well. Sizes of the facilities are approximate and will be determined by the well's productivity and produced fluid properties. Anticipated equipment required is:

- (1) Two (2), 400 barrel production tanks
- (2) One (2), Three phase separator
- (3) One (1), Heater treater
- (4) One (1), Pumping unit maybe required 6 months after production is established.

All above ground production facilities including tanks, heater treaters, etc. will be painted using Kansas Paint and Company Juniper Green.

In the unlikely event that a spill should occur, the area surrounding the production tanks will be bermed 3' x 30' x 55' and will be low profile in nature. No tank grades, etc. will be allowed.

Pipelines if required will follow existing access routes where feasible.

- C. The reserve pit and that portion of the location not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section - Point #10. All of the windrowed topsoil will be used in reclaiming the unused areas. This will be done and approved before any production equipment is installed.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Fresh water to be used for the drilling and production of this well will be hauled from the Colorado River in Section 26-T25S-R21E. This source is located on BLM land and the water haulers used will be required to have permits to obtain the water. Brine water will be obtained from private sources within the City of Moab.
- B. This water will be hauled by truck over existing roads and the proposed access road.
- C. There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS OF HANDLING WASTE DISPOSAL

See location layout of drilling rig and cross sections.

The location size will be no larger than 350 feet wide and 275 feet long. However, depending on the drilling rig contracted, the drill pad size will be reduced as much as possible to minimize the disturbed area.

The reserve pit will extend 50 feet from the drill pad in the northwest direction and will be 350' in length along the edge of the drill pad. The reserve pit will be lined with plastic (20 mil or heavier) sufficient to prevent seepage. The reserve banks will be 1.5 to 2.0 feet above the pad and constructed in 8" lifts, machinery compacted, and sufficiently wide for equipment to pass over. The pit liner will be inspected before drilling starts for anchoring and padding. A back stop, water mist and knockdown will be installed for the air mist blooie line.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

The pits will have overhead wire with flagging installed at such a time as deemed necessary to protect the water fowl, wildlife, and domestic animals.

Before drilling starts, the reserve pit will be fenced on three sides and at the time drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation are attempted. The fence will be 36 inch woven wire plus 1 strand of barbed wire for support and will be kept in good repair while the pit is drying.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

A temporary trash basket will be supplied and will be placed on the location site. This trash basket will be used to contain trash accumulated at the sight. The trash will be hauled to the nearest sanitary land fill.

A portable chemical toilet will be supplied for human waste. Grey water will be drained into a rathole alongside the trailers.

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E-S.L.B.&M.
Grand County, Utah

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

During the drilling operation trailers will be on location to house Enserch Exploration personnel, the drilling contractor's tool pusher and the mud loggers.

9. WELL SITE LAYOUT CONSTRUCTION

See attached location layout of drilling rig and cross sections.

An Enserch Exploration, Inc. representative or the dirt contractor will contact the B.L.M. Grand Resource Area Office in Moab, Utah (phone 801-259-8193) 48 hours prior to beginning any work on public land. Due to the sensitive nature of the project a pre-spud inspection will be made by the B.L.M. to approve the drill pad, access road, reserve pit and the pit liner. All phases of the project will be closely monitored by the B.L.M. Construction and drilling will be limited to November 15 to March 15 or July 1 to September 1.

The dirt contractor will be furnished with an approved copy of the surface use plan and any additional stipulations prior to the commencement of any work.

If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the B.L.M. Grand Resource Area Office will be contacted. All employees working in the area will be informed by Enserch Exploration, Inc. that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of indentified archaeological sites will only be done if damage occurs.

The top 12 inches of soil material will be removed from the location and windrowed separate from the vegetation on the southwest side of the location. The stockpile will be approximately 3500 cu. yds.

All vegetation will be windrowed separate from the top soil on the southwest side. The topsoil will be marked with a sign "Topsoil Do Not Disturb".

As mentioned in Item #7, the reserve pit will be lined with 20 mil or heavier plastic sufficient to prevent seepage. If rock is encountered while constructing the reserve pit, a clay or straw padding will be placed beneath the plastic liner to minimize puncturing. The pit liner will be inspected prior to drilling starts by the B.L.M.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E-S.L.B.&M.
Grand County, Utah

10. PLANS FOR REHABILITATION OF SURFACE

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the portable trash cage and will be hauled to a local town dump site. No trash will be left in the pits. No burning will be allowed at any time.

A representative of Enserch Exploration, Inc. or the dirt contractor will contact the Grand Resource Area B.L.M. Office in Moab, Utah phone (801-259-8193) 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

Before any dirt work to restore the location takes place, the reserve pit will be completely dry and any trash (barrels, metal etc.) it contains will be removed from public lands.

All disturbed areas will be recontured to blend as nearly as possible with the surrounding area.

The stockpiled/ windrowed topsoil will be evenly distributed over the disturbed area.

All disturbed areas will be scarified or ripped with the contour to a depth of 14 inches. The pad will not be smoothed out but will be left with a roughened surface.

Seed will be (broadcast/drilled) at a time to be specified by the B.L.M. with the seed prescription following. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover. An invoice will be submitted to verify seed, the species and rate of application.

After seeding is complete the stockpiled vegetation will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent any vehicle access.

Waterbars will be used as needed on all sloping surfaces as shown below:

<u>Grade</u>	<u>Spacing</u>
2%	200 ft. spacing
2-4%	100 ft. spacing
4-5%	75 ft. spacing
+5%	50 ft. spacing

The location will be fenced (as pit) during rehabilitation to speed re-vegetation.

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E-S.L.B.&M.
Grand County, Utah

10. PLANS FOR REHABILITATION OF SURFACE "Cont'd"

Pit material will be removed and all rehabilitation completed within 30 days of completion or plugging.

A dry hole marker will not be installed.

SEED MIXTURE

List #6

Species

Grasses

		<u>lb/ac</u>
Oryzopsis hymenoides	Indian ricegrass	2
Sporobolus cryptandrus	Sand dropseed	2
Bouteloua gracilis	Blue grama	2

Forbs

Helianthus annuus	Common sunflower (Kansas sunflower)	$\frac{1}{2}$
Melilotus officinalis	Yellow sweetclover	$\frac{1}{2}$
Sphaeralcea coccinea	Scarlet globemallow	$\frac{1}{2}$

Shrubs

Atriplex canescens	Fourwing saltbush (White greasewood)	2
Eurotia lanata	Winterfat (Whitesage)	2
		<hr/>
		11 $\frac{1}{2}$ lbs/ac.

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E - S.L.B.&M.
Grand County, Utah

11. OTHER INFORMATION

1. Topography: The proposed location is on the southeastern portion of a mesa known as Big Flat which borders the canyons formed by the Colorado River as it meanders through the Moab Valley to the east. The terrain in the immediate vicinity is relatively flat (0 to 5%) but gently slopes in a southerly direction. Runoff from this area flows south to southeast into the East Fork Shafer Canyon which in turn feeds into the Colorado River at a point approximately 1-1/2 miles southeast of Dead Horse Point.

Soil Characteristics: The topsoil in the area is a light brown sandy clay.

Geological Features: The geological structures of the area that are visible are of the Kayenta Formation, Lower Jurassic period. South of the proposed location canyon erosion is visible from Dead Horse Point where Triassic, Permian and Upper Pennsylvanian period formations can be seen.

Flora: Vegetation surrounding the proposed location includes Four Winged Saltbrush, Shadscale, Big Sagebrush, Morman Tea, Sego Lily, Prickly Pear Cactus and Bunch Grass. In the outlying areas additional flora include Pinyon Pine and Utah Juniper.

Fauna: Mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodent, and various reptiles are common to the area.

2. Surface Use Activity:

The area is used by man for the primary purpose of grazing domestic livestock. The total surface ownership affected by this location site is administered by the Bureau of Land Management, however, it is located within an area that is intended to be annexed by the Dead Horse Point State Park.

Dead Horse Point State Park is managed by the Utah Division of Parks and Recreation. The park is accessible year round. Visitor activities include exhibits, self guided nature trails, day use recreation and camping. The park visitor center is located approximately 3 miles south of the proposed location.

3. The nearest permanent water from the proposed location is the Colorado River 4-1/2 miles south.

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E - S.L.B.&M.
Grand County, Utah

11. OTHER INFORMATION (Continued)

The closest occupied dwelling is the Dead Horse Point State Park Visitor's Center 3 miles south.

There are no visible archeological, historical, or cultural sites within any reasonable proximity of the proposed location site. See Archeological Report attached.

12. OPERATOR'S REPRESENTATIVES

R. S. Brashier
Regional Drilling Engineer
Enserch Exploration, Inc.
1230 River Bend Drive Suite 136
Dallas, Texas 75247
(214) 630-8711 Office
(214) 492-3616 Home

C. H. Peeples
Regional Drilling Manager
Enserch Exploration, Inc.
1230 River Bend Drive Suite 136
Dallas, Texas 75247
(214) 630-8711 Office
(214) 223-7879 Home

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E-S.L.B.&M.
Grand County, Utah

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 Enserch Exploration, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

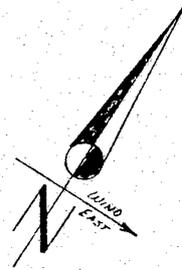
MARCH 28, 1983
Date

R. S. Brashier
R. S. Brashier
Regional Drilling Engineer

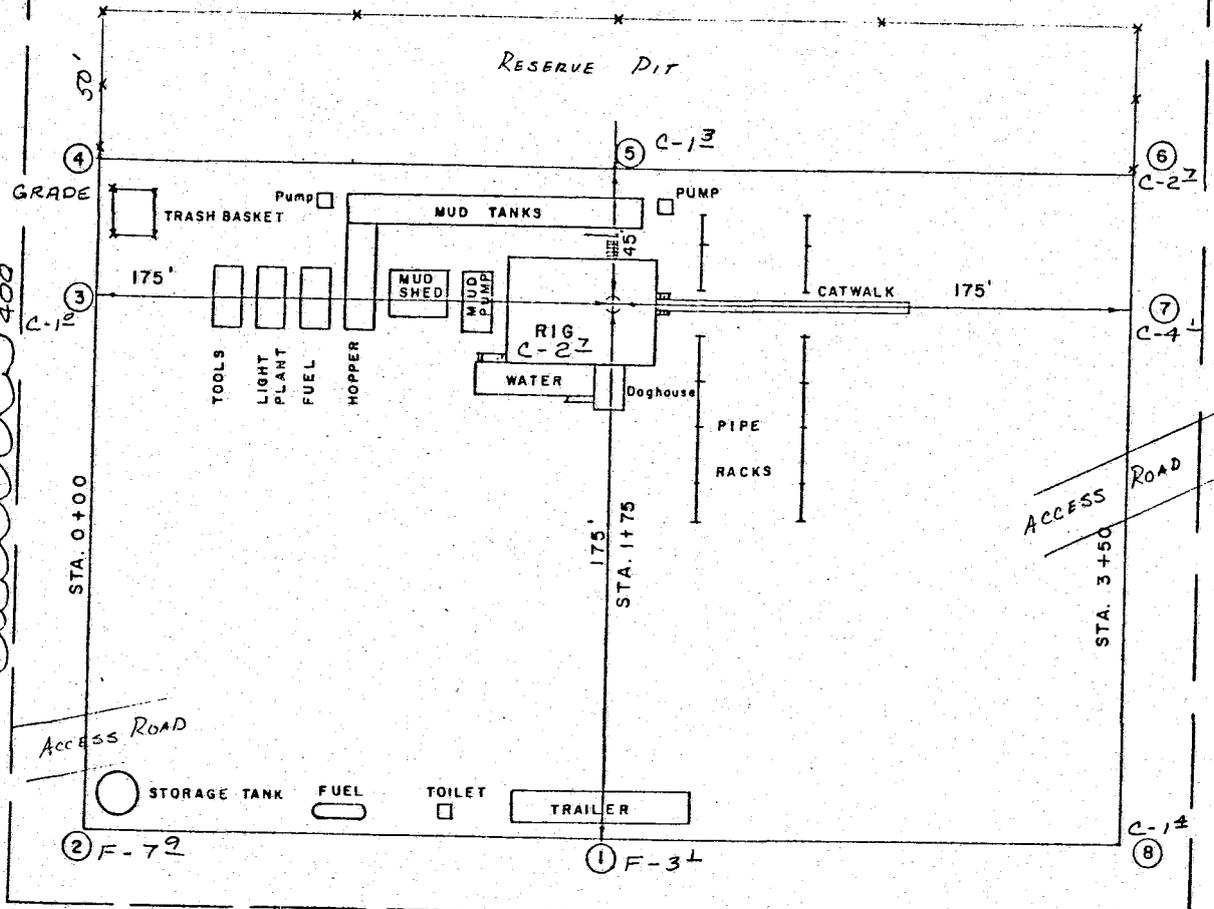
RSB/hrs

400'

TOTAL DISTURBED AREA
SCALE 1" = 50'

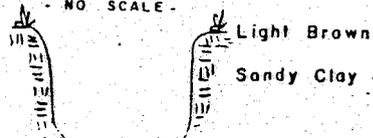


WINDROWED VEGETATION Row 2
TOP SOIL Row 1



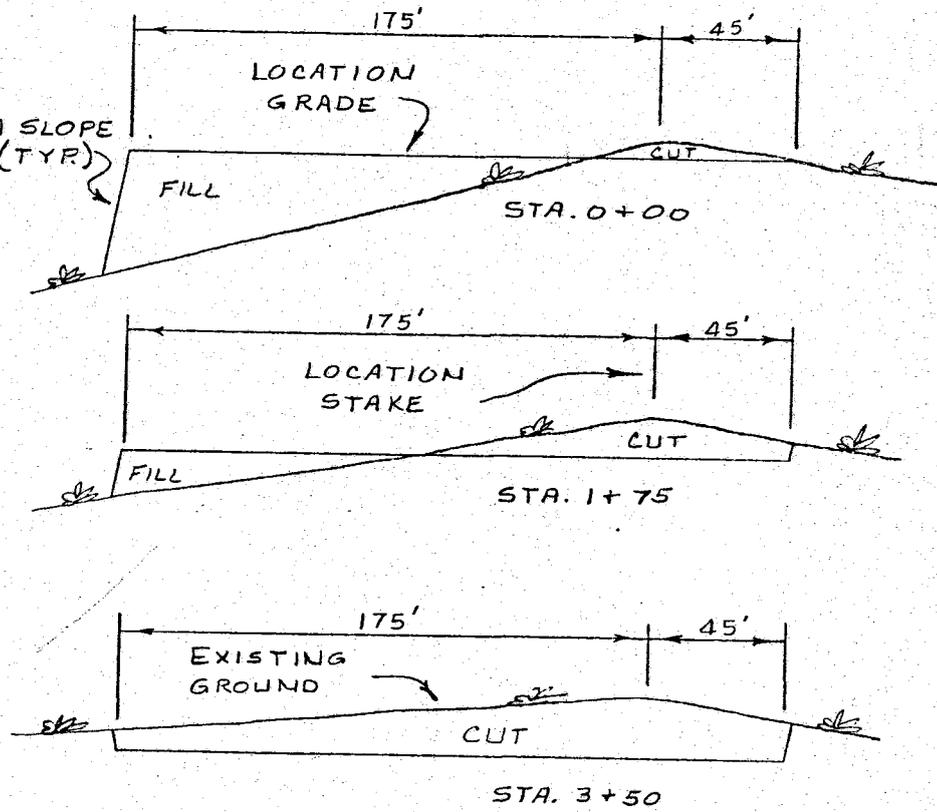
SOILS LITHOLOGY

- NO SCALE -



ENSERCH EXPLORATION INC.
DEAD HORSE POINT FED.#1-20

CROSS SECTIONS



1" = 10'

Scales

1" = 50'

APPROXIMATE YARDAGES

Cubic Yards Cut - 3485

Cubic Yards Fill - 3107

Cultural Resources Inventory Report
on
The Proposed Enserch 1-20 Oil Well
In Grand County, Utah
for
Uintah Engineering

GRI Project No. 8303

13 January 1983

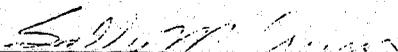
Prepared by

Grand River Institute
1030 Colorado Avenue
Grand Junction, Colorado 81501
Utah Antiquities Permit No. 82-UT-171

Submitted to

The Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, Utah 84532

A cultural resources inventory of proposed Enserch oil well 1-20 located on Bureau of Land Management (BLM) land in Grand County, Utah was conducted for Uintah Engineering, P.O. Box Q, Vernal, Utah 84078, representing Enserch Exploration, Inc., at the request of the BLM Moab District Office. The survey was effected in compliance with federal and state regulations governing the protection of cultural resources on publicly owned lands. A prefield check-in was made at the BLM Grand Resource Area on 10 January 1983 and field work was performed that day by Sally Crum of Grand River Institute under Antiquities Permit No. 82-UT-171. A total of approximately 10 acres was surveyed for cultural resources. Two isolated finds, a pounding stone and a biface fragment, were found on and adjacent to the well site. However, these finds are considered insignificant and no further work is recommended for the surface extent of the project.


Sally M. Crum 1-13-83
Project Archaeologist Date

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

For BLM Use Only

BLM Report ID No. 1 4 10

Report Acceptable Yes No

Mitigation Acceptable Yes No

Comments: _____

1. Report Title G R I I E N S E R C H I I - 2 0 U I N T A H E N G I

2. Development Company Uintah Engineering for Enserch Exploration, Inc.

3. Report Date 01 11 98 3 4. Antiquities Permit No. 82-UT-171

5. Responsible Institution G R A N D R I V E R I I N S County Grand

6. Fieldwork Location: TWN 26S Range 20E Section(s) 20 70 71 72 73 74 75 76 77
 TWN 78 81 Range 82 85 Section(s) 86 87 88 89 90 91 92 93
 7. Resource Area G R I I TWN 94 97 Range 98 101 Section(s) 102 103 104 105 106 107 108 109

PO= PONY EXPRESS, BR= BEAR RIVER, PR= PRICE RIVER, WS= WARM SPRINGS
 BC= BOCK CLIFFS, HR= HOUSE RANGE, SE= SEVIER RIVER
 HM= HENRY MOUNTAINS, BE= BEAVER RIVER, DX= DIXIE
 KA= KANAB, ES= ESCALANTE, SJ= SAN JUAN, GR= GRAND
 SR= SAN RAFAEL, DM= DIAMOND MOUNTAIN

Fill in spaces 65, 69, 81, 85, 97, 101 Only if:
 V= Vernal Meridian
 H= Half Township

8. Description of Examination Procedures: 100% pedestrian survey was conducted by walking a series of concentric circles (spaced 10-15m apart) around the centerstake to a diameter of 650 feet.

9. Linear Miles Surveyed and/or 112 117
 Definable Acres Surveyed and/or 118 123
 * Legally Undefinable Acres Surveyed 110 111
 (* A parcel hard to cadastrally locate i.e., center of section)

10. Inventory Type 11 130
 R= Reconnaissance
 I= Intensive
 S= Statistical Sample

11. Description of Findings (attach appendices, if appropriate)
 Two isolated finds: IF1--quartzite pounding stone
 IF2--chert biface fragment

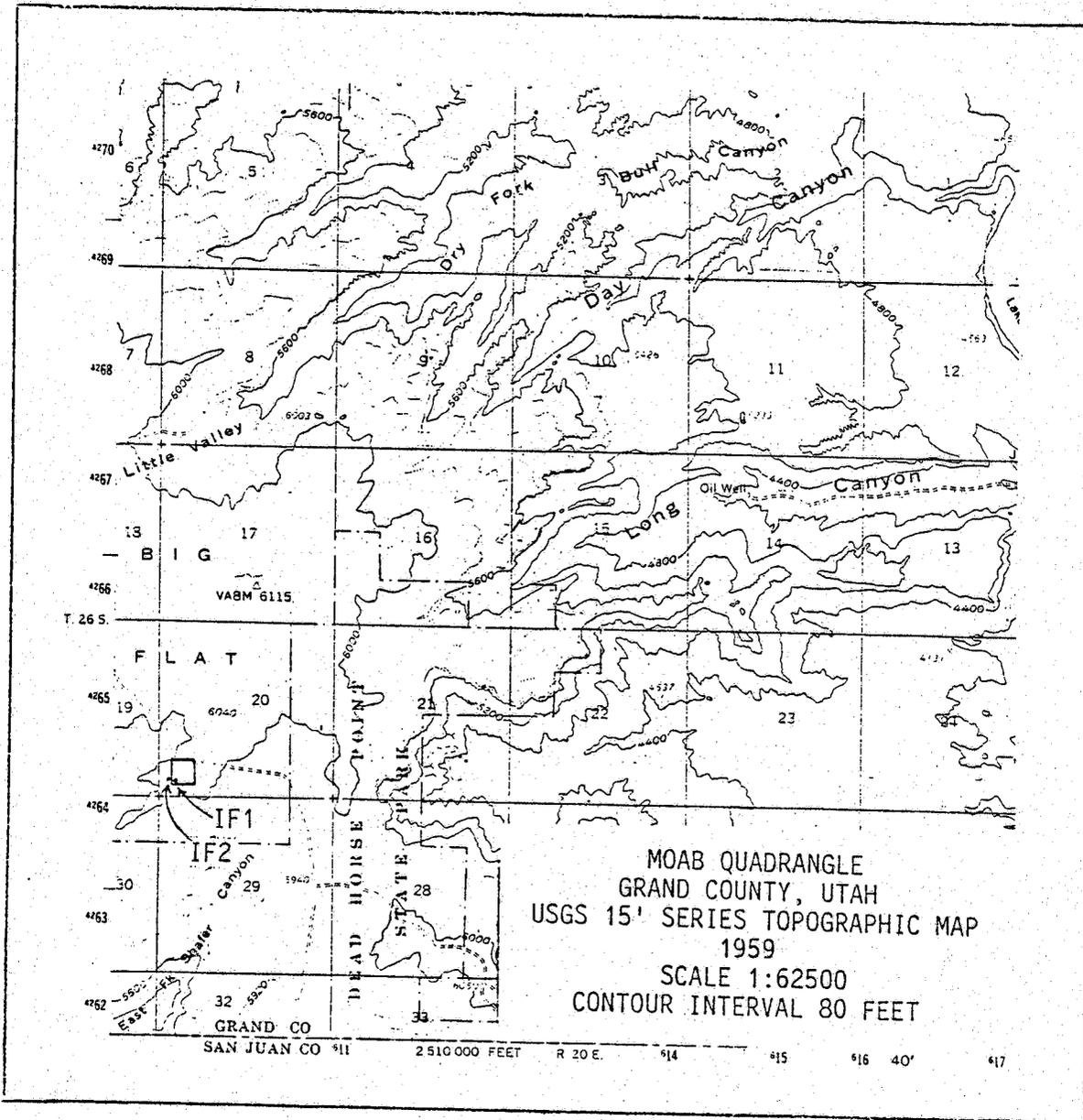
12. Number Sites Found: 10 131 135
 No sites = 0

13. Collection: Y Y=Yes, N=No
136

14. Actual/Potential National Register Properties Affected: None

15. Conclusion/Recommendations: Because of the dearth of artifactual materials in the area, no further work is recommended.

16. Signature and Title of Institutional Officer Responsible
Clyde M. Wignall - Proj. Arch. Prin. Invest.



Cultural resources inventory of the proposed Enserch 1-20 oil well in Grand County, Utah for Uintah Engineering. Map shows location of isolated finds. Area surveyed for cultural resources is highlighted in yellow.

ISOLATED FIND RECORD

1) Isolated Find No.: 8303-IF1 (2) County: Grand (3) State: Utah

I. LOCATION

4) Legal Location: NE 1/4, SW 1/4, SW 1/4, SW 1/4, Sec. 20 T 26S R 20E PM SL

5) USGS Quad: Name Moab, Utah Size 15' Date 1959

6) UTM: Zone 12, 6 1 0 5 5 0 mE, 4 2 6 4 1 5 0mN.

II. ARCHAEOLOGICAL DATA:

7) Artifacts: Pounding stone, a yellowish-orange quartzite.

8) Inferred function/description: Seed pounding, edge of circular cobble shaped and battered.

9) Cultural Affiliation Unknown Time Period Unknown BC AD

10) IF Dimensions 6.5cm X 6.0cm X 2.7cm

III. ENVIRONMENTAL DATA:

11) Elev. 6200 ft. 1890 m. 12) Soil Reddish-brown, sandy

13) Topography Gently sloping SW-trending 14) Slope: site 0-5% surrounding 0-20%

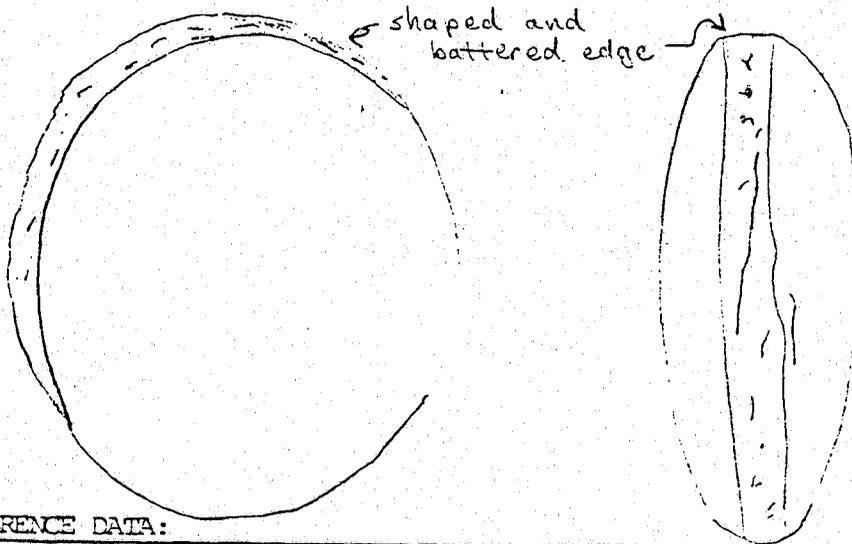
15) Nearest water: name/nature E. Fk. Shafer Canyon/ elev. 5920' dist. 6mi direction SE

Nearest permanent water Colorado River intermittent elev. 4000' dist. 5mi direction E

16) Veg. on site Sagebrush, bunchgrass 17) Surrounding veg. Same, plus scattered juniper

Additional Comments:

IV. ADDITIONAL INFORMATION: (Narrative, drawings, sketch map)



V. REFERENCE DATA:

18) Collection: yes no describe _____

19) Repository: Mesa College 20) Landowner BLM

21) Report title GRI No. 8303-Uintah Engineering 22) Recorder Sally Crum

23) Affiliation Grand River Institute 24) Date 1/10/83

ISOLATED FIND RECORD

1) Isolated Find No.: 8303-IF2 (2) County: Grand (3) State: Utah

I. LOCATION

4) Legal Location: NW 1/4, SW 1/4, SW 1/4, SW 1/4, Sec. 20 T 26S. R 20E. PM S1

5) USGS Quad: Name Moab, Utah Size 15' Date 1959

6) UTM: Zone 12, 6 1 0 4 3 0mE, 4 2 6 4 1 7 5 mN.

II. ARCHAEOLOGICAL DATA:

7) Artifacts: Biface fragment, basal snap (base missing, possible haft snap) of light orange and purple chert (source reportedly within a few miles of isolated find).

8) Inferred function/description: Scraping, cutting - slight attrition and retouch on edges.

9) Cultural Affiliation Unknown Time Period Unknown BC
AD

10) IF Dimensions 4.6cm X 3.1cm X 0.6cm

III. ENVIRONMENTAL DATA:

11) Elev. 6200 ft. 1890 m. 12) Soil Reddish-brown, sandy

13) Topography Gently sloping SW-trending 14) Slope: site 0-5% surrounding 0-20%

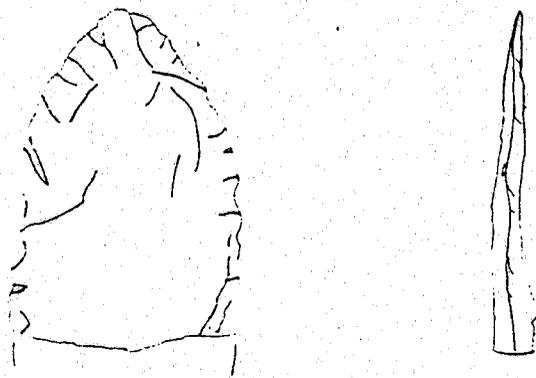
15) Nearest water: name/nature Intermittent/E. Fk. Shafer ^{ridge} elev. 5920' dist. 0.6 mi direction SE

Nearest permanent water Colorado River ^{Canyon} elev. 4000' dist. 5 mi. direction E

16) Veg. on site Sagebrush, bunchgrass 17) Surrounding veg. Same, plus scattered juniper

Additional Comments:

IV. ADDITIONAL INFORMATION: (Narrative, drawings, sketch map)



V. REFERENCE DATA:

18) Collection: yes no describe

19) Repository: Mesa College 20) Landowner BIM

21) Report title GRI No. 8303 - Uintah Engineering 22) Recorder Sally Crum

23) Affiliation Grand River Institute 24) Date 1/10/83

DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-50393

and hereby designates

NAME: Enserch Exploration, Inc.
ADDRESS: P. O. Box 2649, Dallas, Texas 75221

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):

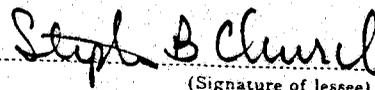
Township 26 South, Range 20 East
Section 20: S/2, NW/4
Grand County, Utah

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.

Coors Energy Company


.....
(Signature of lessee)

Stephen B. Church, Vice President

P. O. Box 467, Golden, Colorado 80401
.....
(Address)

January 12, 1983
.....
(Date)

Enserch Exploration, Inc.
Dead Horse Federal No. 20-1
Section 20-T26S-R20E - S.L.B.&M.
Grand County, Utah

BONDING

Enserch Exploration, Inc. holds a nationwide oil and gas bond in the amount of \$150,000 filed with the United States Department of the Interior, Bureau of Land Management. The bond was approved August 18, 1981. The bond number is: 037857

Enserch Exploration, Inc.
Well No. 20-1
Section 20, T26S, R20E
Grand County, Utah
Lease U-50393

Supplementary Stipulations

Adequate and sufficient electric/radioactive logs will be run to locate and identify the saline minerals in the Paradox Salt formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the saline minerals resource. Surface casing program may require adjustment for protection of fresh water aquifers.



United States Department of the Interior

IN REPLY REFER TO

3109
(U-068)

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P.O. Box M
Moab, Utah 84532

Company: Enserch Exploration Inc.
Well: 1-20
SWSW Section: 20, T. 26 S., R. 20 E.
Lease: U-50393

▲
FEB 1983
RECEIVED
Minerals Management
Service
Moab, Utah

ADDITIONS TO THE MULTIPOINT
SURFACE USE PLAN
AND
RECLAMATION PROCEDURES

Added In APD.

CONSTRUCTION

1. The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah phone (801-259-8193) 48 hours prior to beginning any work on public land. Due to the sensitive nature of the project a pre-spud inspection will be required to approve the pad, access road pit, and pit liner. All phases of the project will be closely monitored by the SMA. Construction and drilling will be limited to November 15 to March 15 or July 1 to September 1.
2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
3. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
4. An archaeological survey is required and has been conducted by Grand River Institute.
5. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
6. Improvement to the existing road will not be necessary. The total disturbed width allowed will be as is. The allowable travel surface will be as is. Upgrading will only be allowed after production is established.

Warning signs will be placed 1000 ft. north and south of access and on the turn off. These signs will be in place during dirt work, drilling, and rehabilitation.

Road upgrading (upon production) on lease U-50393 will be limited to an allowable travel surface width of 20 feet. The total disturbed width will be 36 feet. For construction design and survey refer to Class II Road Standards attachment.

7. Location: Reduce pit to 50' wide by 350' long. Reduce pad size as much as possible.
8. The top 12 inches of soil material will be removed from the location and windrowed separate from the vegetation on the SW side of the location. Stockpile will be approximately 3500 cu. yds.

All vegetation will be windrowed separate from the topsoil on the southwest side. The topsoil will be marked with a sign "Topsoil-Do Not Disturb."

9. The reserve pit will be located on the NW side of the location and will be lined with plastic (20 mil or heavier) sufficient to prevent seepage. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8" lifts, machinery compacted, and sufficiently wide for equipment to pass over. Pit liner will be inspected before drilling starts for anchoring and padding. If a air mist blooie type pit is required, a back stop, H₂O mist, and knock down will be required.
10. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be 36 inch woven wire plus 1 strand of barbed wire for support.
11. During drilling, H₂S gas monitoring system will be in place.

PRODUCTION

1. The reserve pit and that portion of the location not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. All of the windrowed topsoil will be used in reclaiming the unused areas. This will be done and approved before any production equipment is installed.
2. All above ground production facilities including tanks, heater treaters, etc. will be painted using Kansas Paint and Company Juniper Green.
3. Production facilities will be located on the south corner of the location.
4. All pipelines should follow existing access routes where feasible.

5. All production tanks will be bermed 3' x 30' x 55' and will be low profile in nature. No tank grades, etc. will be allowed.

REHABILITATION

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the portable trash cage and will be hauled to a local town dump site. Do not leave any trash in pits. No burning will be allowed at any time.
2. The operator or his contractor will contact the Grand Resource Area BLM Office in Moab, Utah, phone (801-259-8193) 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and any trash (barrels, metal etc.) it contains will be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled/windrowed topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified or ripped with the contour to a depth of 14 inches. Do not smooth pads out, leave a roughened surface.
7. Seed will be (broadcast/drilled) at a time to be specified by the BLM with the enclosed seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover. Submit an invoice to verify seed species and rate.
8. After seeding is complete the stockpiled vegetation will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent any vehicle access.
9. Waterbars will be used as needed on all sloping surfaces as shown below:

<u>Grade</u>	<u>Spacing</u>
2%	200 ft. spacing
2-4%	100 ft. spacing
4-5%	75 ft. spacing
+5%	50 ft. spacing

10. Location will be fenced (as pit) during rehabilitation to speed revegetation.

11. Pit material will be removed and all rehabilitation completed within 30 days of completion or plugging.
12. Waive dry hole marker.

SEED MIXTURE

List #6

Species

Grasses

		<u>lb/ac</u>
Oryzopsis hymenoides	Indian ricegrass	2
Sporobolus cryptandrus	Sand dropseed	2
Bouteloua gracilis	Blue grama	2

Forbs

Helianthus annuus	Common sunflower (Kansas sunflower)	1/2
Melilotus officinalis	Yellow sweetclover	1/2
Sphaeralcea coccinea	Scarlet globemallow	1/2

Shrubs

Atriplex canescens	Fourwing saltbush (White greasewood)	2
Eurotia lanata	Winterfat (Whitesage)	2

11 1/2 lbs/ac.

OPERATOR ENSERCH
ENSEARCH EXPLORATION INC DATE 5-11-83

WELL NAME DEAD HORSE FED 20-1

SEC SWSW 20 T 26S R 20E COUNTY GRAND

43-019-31062
API NUMBER

FED
TYPE OF LEASE

POSTING CHECK OFF:

- | | | | | | |
|--------------------------|-------|--------------------------|-----|--------------------------|----|
| <input type="checkbox"/> | INDEX | <input type="checkbox"/> | MAP | <input type="checkbox"/> | HL |
| <input type="checkbox"/> | NID | <input type="checkbox"/> | | <input type="checkbox"/> | PI |

PROCESSING COMMENTS:

NO OIL WELLS WITHIN 1000'

CHIEF PETROLEUM ENGINEER REVIEW:

PJTW

APPROVAL LETTER:

- SPACING: A-3 _____ UNIT c-3-a _____ CAUSE NO. & DATE
- c-3-b c-3-c

SPECIAL LANGUAGE:

SPECIAL ATTENTION IS DIRECTED TO COMPLIANCE
WITH RULE C-23 (COPY ATTACHED) WHICH SPECIFIES
PROCEDURES FOR DRILLING IN DESIGNATED POTASH AREAS.
PLEASE MODIFY THE PROPOSED CASING AND CEMENTING
PROGRAM AS NECESSARY.

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *FED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

May 12, 1983

Ensearch Exploration, Inc.
1230 River Bend Drive, Suite 136
Dallas, Texas 75247

RE: Well No. Dead Horse Fed. 20-1
SWSW Sec. 30, T.26S, R.20E
660 FSL, 660 FWL
Grand County, Utah

Gentleman:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure. Special attention is directed to compliance with Rule C-23 (copy attached) which specifies procedures for drilling in designated potash areas. Please modify the proposed casing and cementing program as necessary.

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

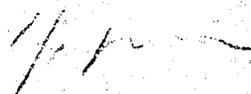
RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

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 43-019-31062.

Sincerely,


Norman C. Stout
Administrative Assistant

NCS/as
cc: Oil & Gas Operations
Enclosure

13 ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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
 Enserch Exploration, Inc.

3. ADDRESS OF OPERATOR
 1230 River Bend Drive - Suite 136 - Dallas, Texas 75247

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 660' FSL & 660' FWL - Section 20-T26S-R20E (SW $\frac{1}{4}$ -SW $\frac{1}{4}$)
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 4-1/2 miles west of Potash, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 480

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH 8300'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR - 6022'

22. APPROX. DATE WORK WILL START* July 1, 1984

5. LEASE DESIGNATION AND SERIAL NO.
 U-50393

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A

7. UNIT AGREEMENT NAME
 N/A

8. FARM OR LEASE NAME
 Dead Horse Federal

9. WELL NO.
 20-1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 20-T26S-R20E
 S.L.B.&M.

12. COUNTY OR PARISH Grand
 13. STATE Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48	350	350 Sacks
12-1/4	9-5/8	40	4500	700 Sacks
8-3/4	5-1/2	15.5# & 17#	8300	600 Sacks

Propose to drill a 17-1/2 inch hole to 350 feet, set 13-3/8 inch casing and cement to surface. Drill a 12-1/4 inch hole to 4500 feet; set 9-5/8 inch casing and cement to 2000 feet. Drill an 8-3/4 inch hole to 8300 feet, T.D., log and run 5-1/2 inch production casing and cement back to 4500 feet.

NOTE: An application for this well was previously submitted and approved April 29, 1983. It is requested that this application be re-approved under the conditions already approved in the original application.

RECEIVED

APR 16 1984

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 depths and true vertical depths. Give blowout preventer program, if any.

DIVISION OF OIL
GAS & MINING

24. SIGNED C. H. Peoples TITLE Regional Drilling Manager DATE April 2, 1984
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/ GENE NODWNE TITLE DISTRICT MANAGER DATE 10 APR 1984
CONDITIONS OF APPROVAL, IF ANY:

THIS REAPPROVAL IS SUBJECT TO ALL THE CONDITIONS OF APPROVAL IN THE ORIGINAL APPLICATION DATED April 28, 1983.

FLARING OR VENTING OF GAS IS SUBJECT TO NTL-4-A DATED 1/1/80

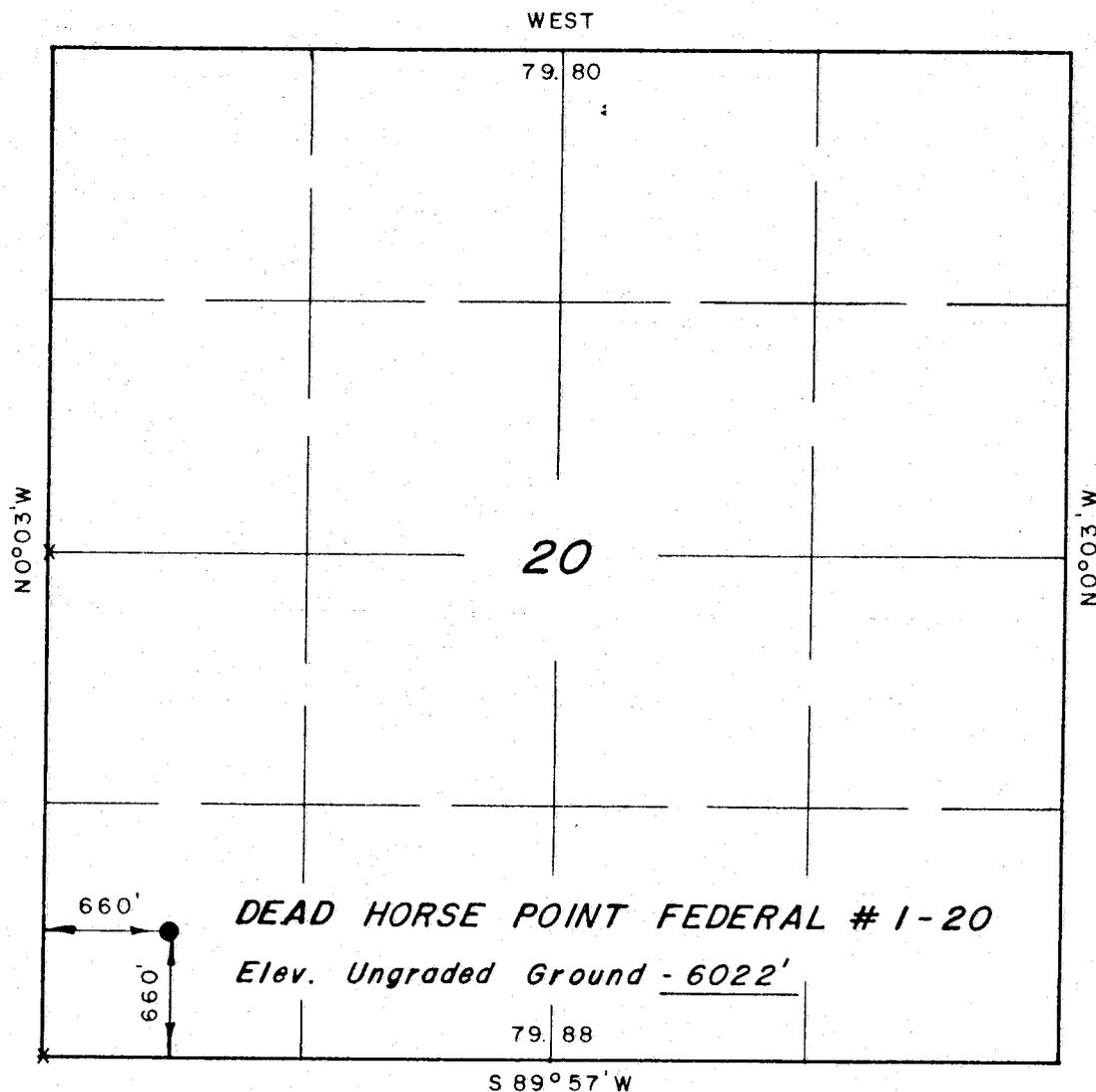
*See Instructions On Reverse Side

T 26 S, R 20 E, S.L.B.&M.

PROJECT

ENSERCH EXPLORATION INC.

Well location, *DEAD HORSE POINT FEDERAL #1-20*, located as shown in the SW 1/4 SW 1/4 Section 20, T 26 S, R 20 E, S.L.B.&M. Grand County, Utah.



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.

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

X = Section Corners Located

SCALE	1" = 1000'	DATE	1/12 / 83
PARTY	R.T. T.J.	S.B.	REFERENCES GLO Plat
WEATHER	Cold	FILE	ENSERCH

RECEIVED

3162 (U-065)
(U-50393)

APR 26 1985

DIVISION OF OIL
GAS & MINING

Moab District
P. O. Box 970
Moab, Utah 84532

APR 24 1985

Enserch Exploration, Inc.
1230 River Bend Drive, Suite 136
Dallas, TX 75247

Re: Rescinding Application for
Permit to Drill
Well No. Dead Horse Fed 20-1
Sec. 20, T. 26 S., R. 20 E.
Grand County, Utah
Lease U-50393

Gentlemen:

The Application for Permit to Drill the referenced well was approved on April 10, 1984. Since that date, no known activity has transpired at the approved location.

Applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application.

Should you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

If you have any questions, please contact the Branch of Fluid Minerals at (801) 259-6111.

Sincerely,

/S/ GENE NODINE

District Manager

cc:
State of Utah, Division of Oil, Gas and Mining ✓
Grand Resource Area

bcc:
U-942, Utah State Office

CFreudiger/cf 4/23/85



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 6, 1985

Enserch Exploration, Inc.
1230 River Bend Drive #136
Dallas, Texas 75247

Gentlemen:

Re: Well No. Dead Horse Federal 20-1 - Sec. 20, T. 26S., R. 20E.,
Grand County, Utah - API #43-019-31062

In concert with action taken by the Bureau of Land Management, April 24, 1985, approval to drill the above referenced well is hereby rescinded.

A new "Application for Permit to Drill" must be filed with this office, for approval, prior to future drilling of the subject location.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza
Petroleum Engineer

pk
cc: Dianne R. Nielson
Ronald J. Firth
File

0170S/82