

UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE  WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/ABD. \_\_\_\_\_

DATE FILED 10-1-79

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-5184 INDIAN

DRILLING APPROVED: 9-28-79

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: 12-17-79 - Location Abandoned; well never drilled

FIELD: Wildcat 3/86 (Undesignated)

UNIT:

COUNTY: Grand

WELL NO. Federal Bartlett Flat 13-22 API NO: 43-019-30553

LOCATION 852' FT. FROM (N) (S) LINE. 492' FT. FROM (E) (W) LINE. SW SW 1/4-1/4 SEC. 22

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				25S	19E	22	HUSKY OIL COMPANY

**FILE NOTATIONS**

Entered in MID File .....	Checked by Chief .....
Location Map Pinned .....	Approval Letter .....
Card Indexed .....	Disapproval Letter .....

**COMPLETION DATA:**

Date Well Completed .....	Location Inspected .....
W..... WW..... TA.....	Bond released
GW..... OS..... RA.....	State or Fee Land .....

**LOGS FILED**

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

12-3-90 JCP

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

**DUPLICATE COPY**  
(Other instructions on reverse side)

**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  
Husky Oil Company

3. ADDRESS OF OPERATOR  
600 South Cherry Street, Denver, Colorado, 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface                      492' FWL and 852' FSL (SW SW)  
 At proposed prod. zone  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 15 miles west of Moab

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)                      492'

16. NO. OF ACRES IN LEASE  
2560

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  
7350

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
GR 5545'

22. APPROX. DATE WORK WILL START\*  
November 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4	13-3/8	48#	300'	± 250 sx
12-1/4	9-5/8	40#	4150'	± 250 sx
8-3/4	5-1/2	20# & 17#	7350'	± 1500 sx

We propose to drill the captioned well to test the Cane Creek formation. We propose to test all shows of oil and/or gas deemed worthy of test and to set casing as above or P&A in accordance with instructions received from the USGS. See attached BOPE sketch.

**RECEIVED**  
DEC 20 1979

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.

SIGNED Donald D. Gentry TITLE Drilling Engineer DATE Sept. 19, 1979

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY W.T. Mouton TITLE ACTING DISTRICT ENGINEER DATE NOV 27 1979  
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

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

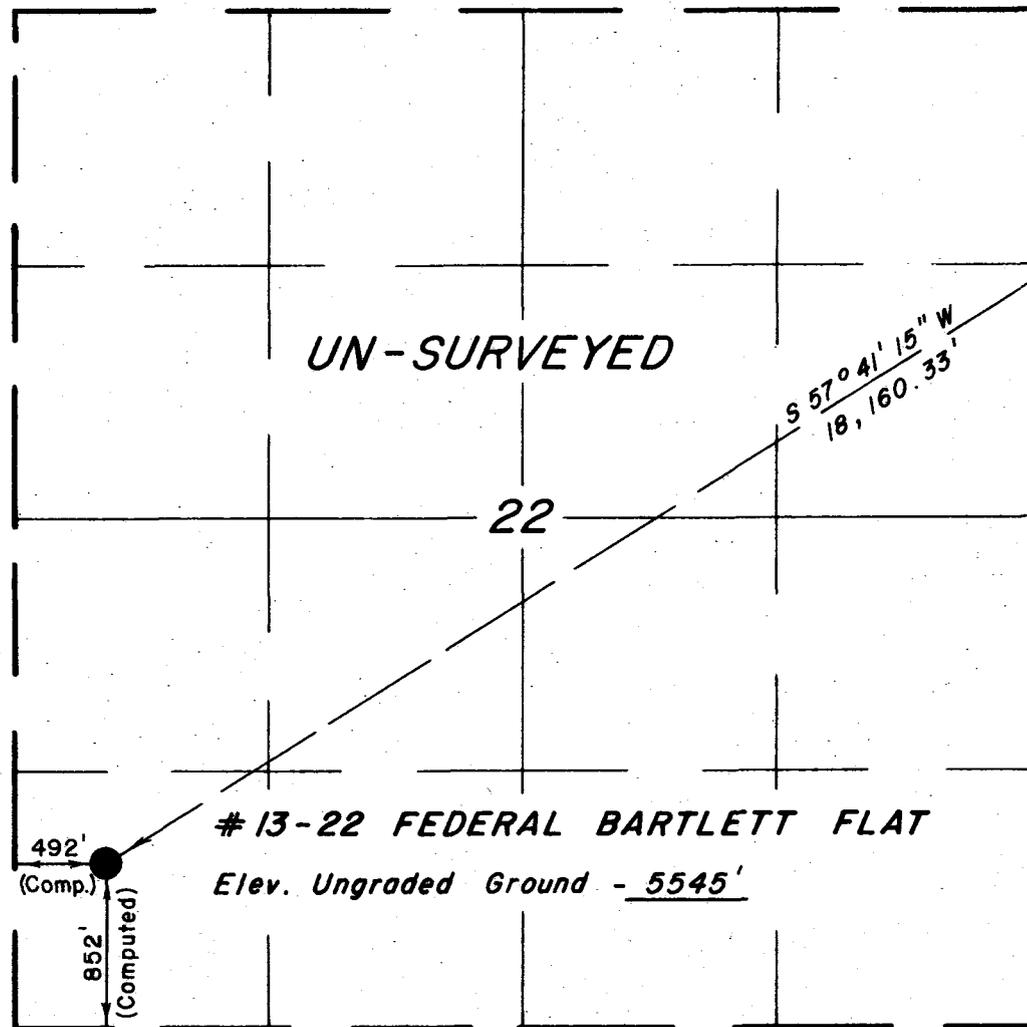
*Utah O & L*

T 25 S, R 19 E, S.L.B. & M.

PROJECT

HUSKY OIL COMPANY

Well location, #13-22 FED.  
BARTLETT FLAT, located as  
shown in the SW 1/4 SW 1/4  
Section 22, T25S, R19E, S.L.  
B. & M. Grand County, Utah.



NE Corner Section 13,  
T25S, R19E, S.L.B. & M.

Basis of Bearings  
NORTH



East 1/4 Corner Section  
13, T25S, R19E, S.L.B. & M.

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.

*Delroy J. ...*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO 2454  
STATE OF UTAH

#13-22 FEDERAL BARTLETT FLAT  
Elev. Ungraded Ground - 5545'

492'  
(Comp.)  
852'  
(Computed)

X = Section Corners Located

UINTAH ENGINEERING & LAND SURVEYING  
P. O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	9/11/79
PARTY	DA DF DJ	REFERENCES	GLO Plat
WEATHER	Fair	FILE	HUSKY OIL CO.

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

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

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-5184

OPERATOR: Husky Oil Company

WELL NO. Federal Bartlett Flat 13-22

LOCATION: 1/4 SW 1/4 SW 1/4 sec. 22, T. 25S, R. 19E, SLM

Grand County, Utah

1. Stratigraphy:

Navajo Ss. - surface			Paradox Salt	3965	+1580
Wingate	50	+5495			
Chinle	300	+5245	Mississippian	7140	-1595
Moenkopi	770	+4775			
Cutter	1175	+4370			
Rico	1950	+3595			
Hermosa	2410	+3135			

2. Fresh Water:

WRD report (#10) attached.

3. Leasable Minerals: Prospectively valuable for potash and halite in the Paradox Fm. At this location, the Paradox is at approximately 3965'.

4. Additional Logs Needed: A gamma ray should be included on the FDC-CNL or DLL, DIL. Otherwise, the proposed logging program is adequate.

5. Potential Geologic Hazards: Lost circulation is possible in the evaporite sequences of the Paradox and salt mud should be used in drilling.

6. References and Remarks: U.S.G.S. Files, SLC.  
1 mile West of Big Flat KGS.

Signature: J. Paul Matherly

Date: 10 - 19 - 79

11. (D-25-19) 26 aaa

### Depths of Fresh-Water Zones

General Crude Oil Co. - Big Flat, Big Rock No. 1  
615 fel, NE, NE, sec. 26, T 25 S, R 19 E, SLBM, Grand County, Utah  
Elev. 5,436 ft, proposed test to 9,100 ft  
Proposed casing: 24 in to 250 ft  
                  16 in to 4,400 ft  
                  9 in to 9,100 ft

### Estimated formation tops:

Wingate Ss	surface,	permeable but dry
Chinle Fm	320	permeable in part, but dry
Moenkopi Fm	700	mostly impermeable, probably dry
Cutler Fm	1200	aquifer if White Rim Mem is present, contains water useable by stock
Rico Fm	1980	mostly an aquiclude, may contain some salty water
Hermosa Fm	2440	an aquifer in part, yielding brine
Paradox Mem	4000	evaporites which may yield some brine

The zones containing fresh or useable ground water in this area are above the Rico Fm. Regional dip of strata is about 2°-3° NE. Formations which are dry at this location may be aquifers a short distance to the northeast.

CTS  
12-16-69

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

Usual Environmental Analysis

Lease No. U-5184  
Operator Husky Oil Company Well No. 13-22  
Location 492' FWL 852' FSL Sec. 22 T. 25S R. 19E  
County Grand State Utah Field Wildcat  
Status: Surface Ownership Public Minerals Federal  
Joint Field Inspection Date October 26, 1979

Participants and Organizations:

<u>Bob Kershaw</u>	<u>Bureau of Land Management</u>
<u>John Evans</u>	<u>U. S. Geological Survey</u>
<u>Glenn Doyle</u>	<u>U. S. Geological Survey</u>
<u>J. Wiede</u>	<u>Husky</u>
<u>Jim Boulden</u>	<u>Dirt Contractor</u>
<u>Bobby Starrett</u>	<u>Dalgarno Trucking</u>
<u>L. A. Farr</u>	<u>Sante Fe International</u>

Related Environmental Analyses and References:

- (1) Big Flat-Squaw Park Unit Resource Analysis, Bureau of Land Management, Utah
- (2)

Analysis Prepared by: John T. Evans and Glen Doyle, Environmental Scientists  
Grand Junction

Date November 12, 1979

*Handwritten notes:*  
P&D 20083300  
P&D 100 x 100  
100' x 100' with well to cross  
How this well. (signature)  
State file 407 3000  
12/1/79  
S-1100 (86)

Noted - G. Diwachak

Proposed Action:

On September 25, 1979, Husky Oil Company filed an Application for Permit to Drill the No. 13-22 exploratory well, a 7350' oil test of the Cave Creek Formation; located at an elevation of 5545' in the SW/4 SW/4, Sec. 22, T25S, R19E, on Federal mineral lands and Public surface; lease No. U-5184. There was no objection raised to the wellsite nor to the access road.

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

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

The operator proposes to construct a drill pad 200' wide x 300' long and a reserve pit 100' x 150'. A new access road would be constructed 18' wide x 100' long from an existing and improved road. Operator responsible for obtaining any state or local permits for use of state road.

The operator proposes to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for a gas flowline would be submitted to the appropriate agencies for approval. The anticipated starting date is November 1979 and duration of drilling activities would be about 30 days.

Location and Natural Setting:

The proposed drillsite is approximately 15 miles WNW of Moab, Utah, the nearest town. A paved state highway runs to within 300' of the location. This well is a wildcat well.

Topography:

The proposed location slopes to the north at 3-6%.

Geology:

The surface geology is Navajo. The soil is sandy. No geologic hazards are known near the drillsite, however, high pressure zones may be encountered in Paradox Formation. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

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

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

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

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

#### Soils:

No detailed soil survey has been made of the project area. The topsoils in the area range from sandy clay soils to rock outcrops. The soil is subject to runoff from rainfall. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinyon-juniper association is also present.

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

Approximately 1.5 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Due to sandy nature of the soils, reserve pit would be lined.

Air:

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

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

Toxic or noxious gases would not be anticipated.

Precipitation:

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

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

Surface Water Hydrology:

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

Groundwater Hydrology:

Some minor pollution of groundwater systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination, and commingling of formations via the well bore would be possible. The drilling program is designed to prevent this.

There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of freshwater formations are listed in the 10-Point Subsurface Protection Plan. The pits would be lined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Operator to select lining method that will provide stable and tight pit. Due to the saline muds required to drill Paradox Formation and sandy soils, lining is required to prevent surface water and/or groundwater contamination.

#### Vegetation:

Plants in the area are of the salt-desert shrub types grading to the pinyon-juniper association.

Proposed action would remove about 1.5 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

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

#### Wildlife:

Animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays. The Green and Colorado Rivers have been identified as habitat for the humpback chub and Colorado squaw fish.

#### Social-Economic Effect:

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

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project. All permanent facilities placed on the location

would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

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

The site is visible from a major road. This State Highway provides access to Canyonlands and Dead Horse Point recreation areas. Drilling and production equipment will be highly visible to travelers to these state and federal recreation areas. Traffic conflicts should be minimal at this time of year.

The overall effect of oil and gas drilling and production activity is significant in Grand County but it is difficult to assess the environmental impact of a single well on state and/or national levels. However, if said well was to produce in sufficient quantity, additional development wells might be anticipated. This additional development, in turn, would lead to greater environmental and socioeconomic consequences.

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

Arches National Park is nine miles to the east. Canyonlands National Monument is eight miles to the south. Dead Horse Point State Park is seven miles to the southeast. There are no other national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

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

#### Waste Disposal:

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

Alternatives to the Proposed Action:

1) Not Approving the Proposed Permit--The Oil and Gas Lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies' supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration.

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

Proposed Stipulations of Approval:

Operator to line reserve pit. Operator responsible to ensure a stable and tight reserve pit.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 1.5 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to freshwater aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Green River. The potential for pollution to the Green River would exist through leaks and spills.

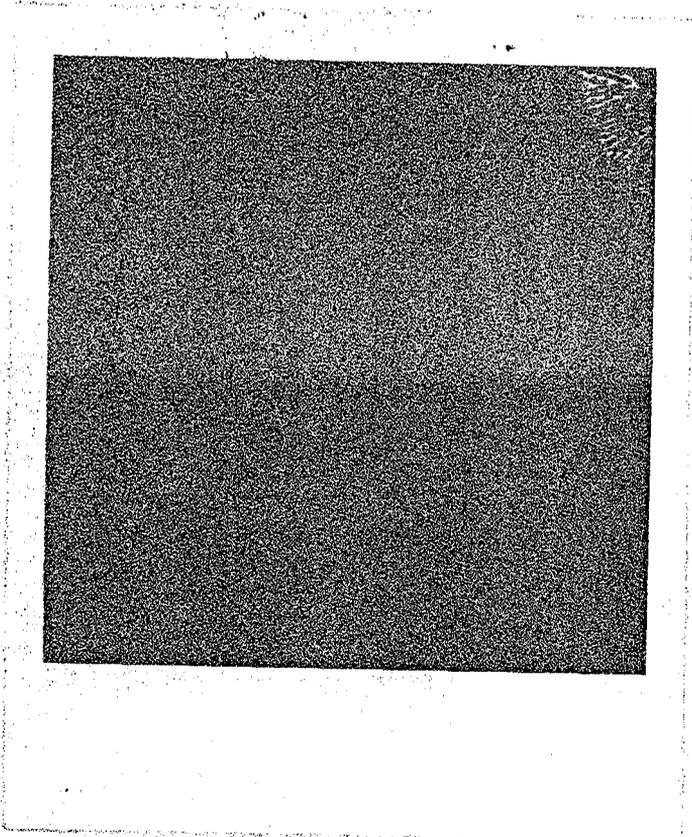
If well is a producer, other development wells would be anticipated with substantially greater environmental and economic impacts.

Determination:

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

11/19/79  
Date

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



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

\*\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*\*

Well Name & Number 13-22 Federal Bartlett Flat  
Operator Husky Oil Company Address 600 S. Cherry St., Denver, Colo.  
Contractor \_\_\_\_\_ Address \_\_\_\_\_  
Location SW 1/4 SW 1/4 Sec. 22 T. 25S R. 19E County Grand

Water Sands

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

**RECEIVED**

DEC 17 1979

DIVISION OF  
OIL, GAS & MINING

(Continue on reverse side if necessary)

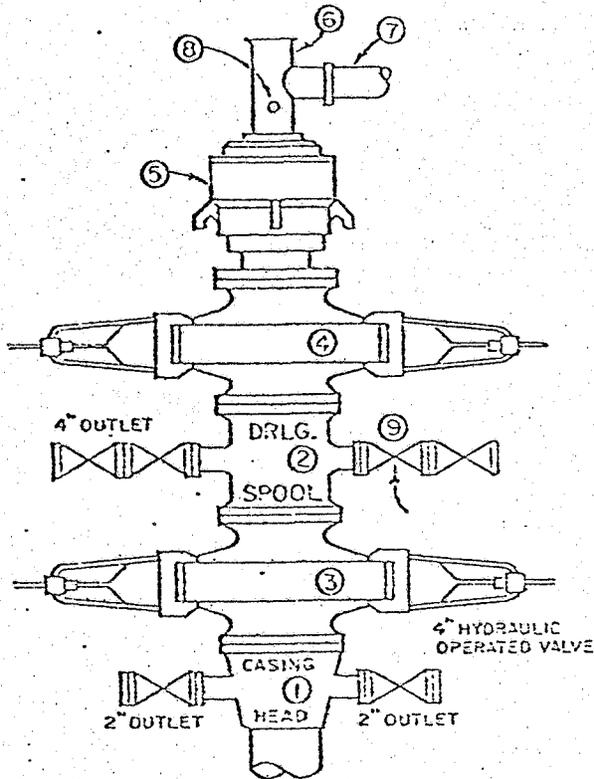
Formation Tops

Remarks The captioned well will not be drilled.

- 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.

# BLOWOUT PREVENTER REQUIREMENTS FOR 5000 LB. SERVICE

## MINIMUM BOP FOR 5M

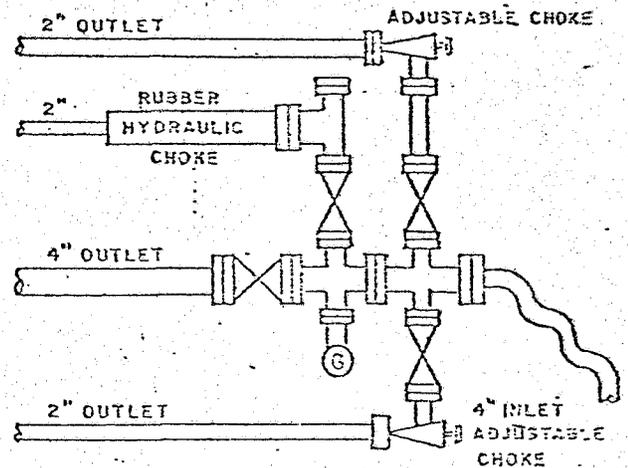


3M OR 5M RSRA

## LEGEND

- (6) PRESSURE GAUGE
- (1) CASING HEAD w/ 2- 2" OUTLETS
- (2) DRILLING HEAD w/ 2 FLGD OUTLETS
- (3) RAM TYPE BOP w/ PIPE RAMS
- (4) RAMTYPE BOP w/ BLIND RAMS
- (5) HYDRIL BOP (ANNULAR TYPE)
- (6) BELL NIPPLE
- (7) FLOWLINE MINIMUM SIZE 8" L.P.
- (8) 2" FILL UP LINE AT RT. ANGLE TO FLOWLINE (7)
- (9) HYDRAULICALLY OPERATED VALVE

## MINIMUM CHOKE MANIFOLD FOR 5M



## TEST:

AFTER NIPPLING UP ON SURFACE PIPE, BUT BEFORE DRILLING OUT THE CEMENT PLUG, THE B.O.P's SHALL BE TESTED TO THE RATED WORKING PRESSURE.

## FREQUENCY:

THE B.O.P.'s SHALL BE CYCLED CLOSED AND OPEN EVERY TIME A TRIP IS MADE.

\*\* FILE NOTATIONS \*\*

DATE: Sept 26, 1979

Operator: Husky Oil Company

Well No: Federal Bartlett Flat 13-22

Location: Sec. 22 T. 25S R. 19E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-019-30553

CHECKED BY:

Geological Engineer: \_\_\_\_\_

Petroleum Engineer: \_\_\_\_\_

Director: OK 8' off not significant

APPROVAL LETTER:

Bond Required:

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

Wm

#1

PI he

September 28, 1979

Husky Oil Company  
600 South Cherry Street,  
Denver, Colorado 80222

Re: Well No. Federal Bartlett Flat 13-22  
Sec. 22, T. 25S, R. 19E.,  
Grand County, Utah

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

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

MICHAEL T. MINDER  
Geological Engineer  
Office: 533-5771  
Home: 876-3001

FRANK M. HAMNER  
Chief Petroleum Engineer  
Office: 533-5771  
Home: 531-7827

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 43-019-30553.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Geological Engineer

/b:tm

cc: USGS