

BEARTOOTH OIL & GAS COMPANY \_\_\_\_\_

P.O. BOX 2564

BILLINGS, MONTANA 59103

(406) 259-2451

April 30, 1982

U. S. Geological Survey  
1745 W. 1700 S., Suite 2000  
Salt Lake City, Utah 84104

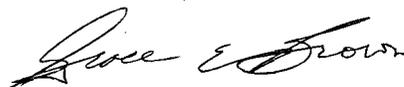
Gentlemen:

Enclosed please find Application to Drill covering our ENI-Hatch  
Federal No. 15-6 well in Uintah County, Utah for your approval.

Thank you.

Yours very truly,

BEARTOOTH OIL & GAS COMPANY



Grace E. Brown  
Drilling Department

gb

Enclosure

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

**RECEIVED**

MAY 04 1982

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

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER

2. NAME OF OPERATOR  
 Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR  
 P. O. Box 2564, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)  
 At surface: 1890' FWL, 1250' FNL  
 At proposed prod. zone: same *NE-NW*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 35 miles south of Bonanza, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 1890'

16. NO. OF ACRES IN LEASE  
 4549.6

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 320

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

19. PROPOSED DEPTH  
 8935' *Mesa Verde*

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 7425' GL, 7441' KB

22. APPROX. DATE WORK WILL START\*  
 July 1, 1982

5. LEASE DESIGNATION AND SERIAL NO.  
 U-46730 C

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 C

7. UNIT AGREEMENT NAME  
 Federal

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 ENI-Hatch No 15-6

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA  
 NE 1/4 Sec. 5-T13S-R25E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3# H-40-STC	200'	150 sacks Class "G"
8-3/4"	7" New	23 & 20# K55 STC	4585'	150 sacks 50-50 Pozmix
6-1/4"	4 1/2" New	11.6# N-80 LTC	8935'	375 sacks RFC 2 stages

- Surface formation is the Mesaverde.
- Anticipated geologic markers are: Mancos 3975', Frontier 7995', Dakota 8315', Morrison 8495', Castlegate 4285'.
- Gas is anticipated in the Dakota, Morrison, and in the Mancos. No oil or other minerals are anticipated. Possible water sands are expected in the Mesaverde.
- Proposed casing program: See Item No. 23 above.
- Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack. BOP's will be tested before drilling out from under surface and intermediate casing and checked daily.
- Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The well will be air drilled from under surface casing to total depth.

(continued back page)

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 James G. Rantson TITLE Petroleum Engineer DATE 4/27/82  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

APPROVED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING  
 DATE: 4/27/82  
 BY: [Signature]

**Instructions**

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**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 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

7. Auxiliary equipment: See well control plan.

8. The logging program will consist of a DIL log from TD to base of intermediate casing and GR-FDC-SNP, or CNL logs from TD to above the Frontier and across the Mancos. No cores or DST's are planned.

9. No abnormal pressures or temperatures anticipated. No poisonous gas is anticipated.

10. Anticipated spud date is July 1, 1982, depending upon rig availability.

11. Completion operations hold commence within 30 days of rig release.

12. Survey plats are attached.

13. The gas is not dedicated.

14. Stipulation forms attached. Bond will be furnished shortly.

U.S. GOVERNMENT PRINTING OFFICE: 1983-O-711-398

APPLICATION FOR PERMIT TO DRILL FOR OIL AND GAS

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C. 20250

1. TYPE OF WELL:  DRILL  REPAIR

2. NO. OF CASINGS:  NONE  OTHER  CASING

3. ADDRESS OF OPERATOR: Bearfoot Oil & Gas Company  
P. O. Box 2584, Billings, MT 59103

4. LOCATION OF WELL (Include latitude, longitude and in accordance with any State or Federal requirements): 1890' EML, 1890' EML

5. DISTANCE IN FEET AND BEARING FROM NEAREST TO BE DESCRIBED POINT: 22 miles south of Bonanza, Utah

6. LOCATION OF NEAREST ROAD, RAILROAD, OR AIRWAY: 22 miles south of Bonanza, Utah

7. LOCATION OF NEAREST TOWN OR VILLAGE: 22 miles south of Bonanza, Utah

8. LOCATION OF NEAREST POST OFFICE: 22 miles south of Bonanza, Utah

9. LOCATION OF NEAREST TELEPHONE OFFICE: 22 miles south of Bonanza, Utah

10. LOCATION OF NEAREST POWER LINE: 22 miles south of Bonanza, Utah

11. LOCATION OF NEAREST WATER COURSE: 22 miles south of Bonanza, Utah

12. LOCATION OF NEAREST FEDERAL LAND: 22 miles south of Bonanza, Utah

13. LOCATION OF NEAREST STATE LAND: 22 miles south of Bonanza, Utah

14. LOCATION OF NEAREST INDIAN LAND: 22 miles south of Bonanza, Utah

15. LOCATION OF NEAREST FEDERAL RESERVE: 22 miles south of Bonanza, Utah

16. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

17. LOCATION OF NEAREST NATIONAL ANTICLIMAX MONUMENT: 22 miles south of Bonanza, Utah

18. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

19. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

20. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

21. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

22. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

23. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

24. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

25. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

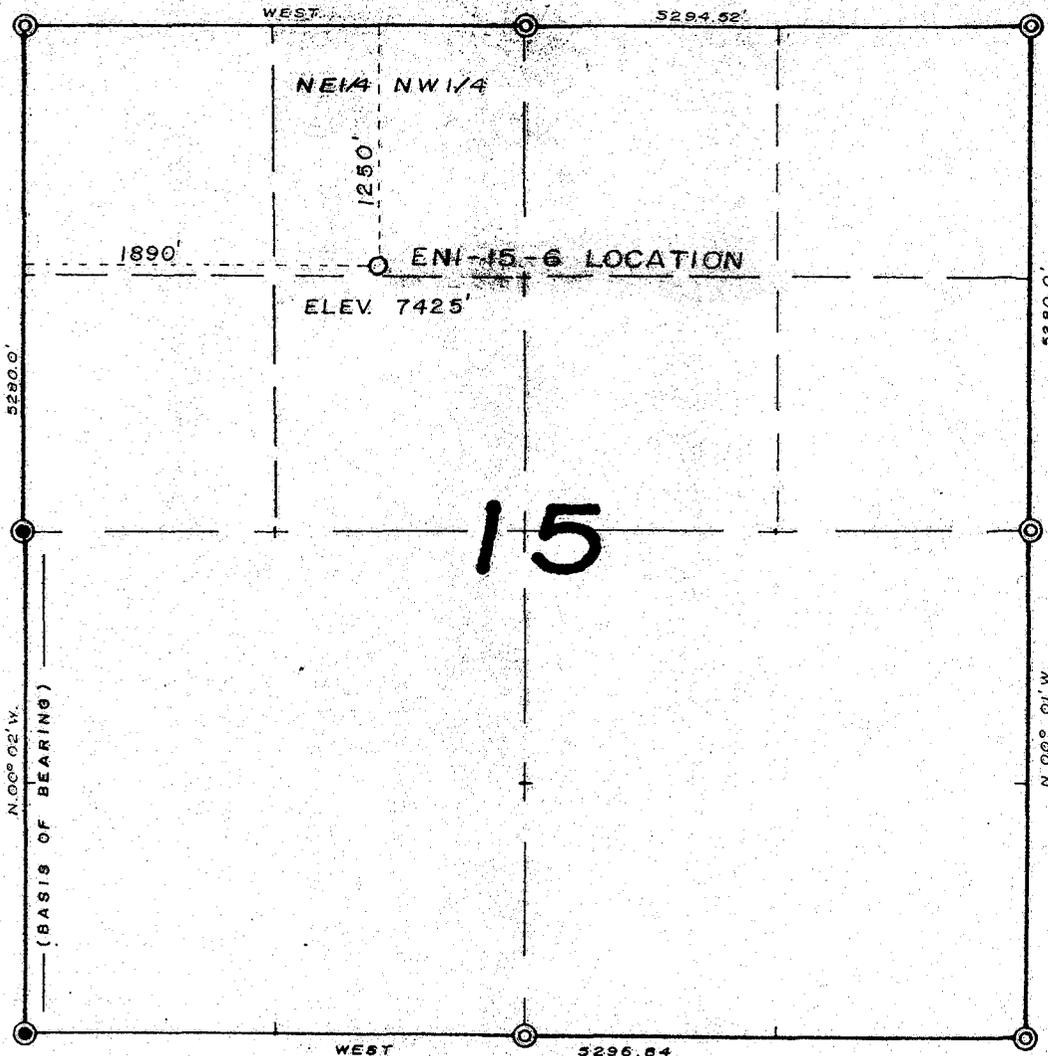
26. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

27. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

28. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

29. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah

30. LOCATION OF NEAREST NATIONAL MONUMENT: 22 miles south of Bonanza, Utah



SCALE

500 0 1000'

LEGEND

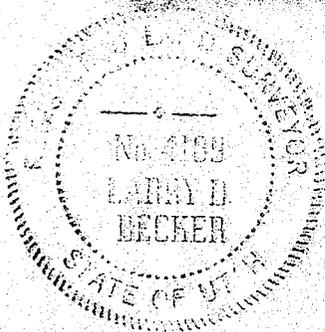
- ⊙ STANDARD LOCATION OF G.L.O. CORNERS.
- ⊙ G.L.O. CORNERS FOUND.
- WELL LOCATION STAKED.

REFERENCE DOCUMENTS

1923 GLO PLAT

DAVIS CANYON, UT-CO  
QUADRANGLE, USGS

THIS WELL LOCATION PLAT WAS PREPARED FOR BEARTOOTH OIL & GAS CO.  
 AS REQUESTED BY KEN CURREY, TO LOCATE THE  
ENI-15-6, 1250' F.N.L. & 1890' F.W.L.,  
 IN THE NE 1/4 NW 1/4, OF SECTION 15, T. 13 S., R. 25 E. OF THE S. 1 B. & M.  
UINTAH COUNTY, UTAH



SURVEYOR'S CERTIFICATE

I, LARRY D. BECKER A REGISTERED LAND SURVEYOR  
 IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS  
 SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND  
 THAT THIS PLAT REPRESENTS SAID SURVEY.

*Larry D. Becker*  
 UTAH L.S. NO. 4189

SURVEYED	1-12-82	ENERGY SURVEYS & ENGINEERING CORP. 1156 BOOKCLIFF AVE. NO. 4 GRAND JUNCTION, CO. 81501 803 248-7221	SCALE 1" = 1000'
DRAWN	1-14-82		JOB NO.
CHECKED	1-14-82		SHEET OF

TWELVE POINT PLAN OF DEVELOPMENT  
FOR SURFACE USE FOR THE  
BEARTOOTH OIL & GAS COMPANY

ENI-HATCH-FEDERAL 15-6  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 15-T13S-R25E  
Unitah County, Utah

1. Existing Roads - a legible map showing:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.): See Survey Plat - Plat No. 1
- B. Route and distance from nearest town or locatable reference point to where well access route leaves main road: This location is reached by going south approx. 19 miles from Bonanza, Utah on the Evacuation Creek County road to Three Mile Canyon road thence (W) up that road approx. 5 miles to the Atchee Ridge road, then left (South) down that road approx. 9.5 miles to the beginning of new construction.
- C. Access road(s) to location color-coded or labeled: See Vicinity Map No. 3 and Access Map No. 1
- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.): NA
- E. If development well, all existing roads within a 1-mile radius of wellsite: All existing roads are shown on Map No. 1
- F. Plans for improvement and/or maintenance of existing roads: The existing roads need no improvement. Occasional blading is done by producing and pipeline companies in the area. Beartooth Oil & Gas will do maintenance blading on the existing roads.

2. Planned Access Roads - See Map No. 1

Map showing all necessary access roads to be constructed or reconstructed, showing:

- (1) Width & Disturbance: The road will be constructed with an 18 foot driving surface with a total disturbed width of 40 feet. All trees will be cut and decked and the slash scattered.
- (2) Maximum grades: 5% maximum grade
- (3) Turnouts: Turnouts will be constructed so that they are intervisible as topography dictates.
- (4) Drainage design: Natural drainage; road will follow contour of the land.
- (5) Location and size of culverts and brief description of any major cuts and fills: There are no major cuts and fills. The road follows the ridge top.
- (6) Surfacing material: Native material only; no material will be brought in.
- (7) Necessary gates, cattleguards, or fence cuts: No fences are crossed by this road.
- (8) New or reconstructed roads are to be center-line flagged at time of location staking: The road is center-line flagged.

3. Location of Existing Wells

Two-mile radius map if exploratory, or 1-mile radius map if development well showing and identifying existing (see Well Map No. 2)

- (1) Water wells: None
- (2) Abandoned wells: None
- (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) Monitoring or observation wells for other resources: None

4. Location of Existing and/or Proposed Facilities

A. Within 2-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

- 1. Tank batteries: None
- 2. Production facilities: None
- (3) Oil gathering lines: None
- (4) Gas gathering lines: \_\_\_\_\_
- (5) Injection lines: None
- (6) Disposal lines: None

(Indicate if any of the above lines are buried.)

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad: Gathering system not designed at this time.
- (2) Dimensions of facilities: See Plat No. 4. Separator 5' x 10', meter run 5' x 8', on drillsite pad and painted green to blend with the environment.
- (3) Construction methods and materials: No materials necessary. All lines will be coated, wrapped, and buried.
- (4) Protective measures and devices to protect livestock and wildlife: A 10' x 10' water pit within 50' of the separator will be fenced. A metal guard or fiberglass shelter will be around the wellhead.

4. Location of Existing and/or Proposed Facilities (Continued)

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction is completed: Upon completion of the drilling of this well, all pits will be backfilled and top soil replaced and re-contoured back to original terrain. Upon abandonment, all disturbed areas, including the location and access road, will be re-contoured, ripped or scarified as needed, and re-vegetated using a seed formula as specified by the BLM. Seeding will be done in the fall.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Location and Type of Water Supply

A. Show location and type of water supply either on map or by written description: The water supply for this well will be a private source in Rat Hole Canyon. A water agreement will be arranged with the owner, John Hill.

\_\_\_\_\_

\_\_\_\_\_

B. State method of transporting water and show any roads or pipelines needed: Water will be transported by truck over the existing roadways and proposed access.

\_\_\_\_\_

C. If water well is to be drilled on lease, so state. (No APD for water well is necessary, however, unless it will penetrate potential hydrocarbon horizons): No water well is to be drilled.

\_\_\_\_\_

\_\_\_\_\_

6. Source of Construction Materials

A. Show information either on map or by written description: No construction materials will be used other than native materials.

\_\_\_\_\_

\_\_\_\_\_

B. Identify if from Federal or Indian land: Not applicable.

\_\_\_\_\_

C. Describe where materials, such as sand, gravel, stone, and soil material are to be obtained and used: Soil from cuts will be used for fills. No outside material will be brought in.

\_\_\_\_\_

\_\_\_\_\_

D. Show any needed access roads crossing Federal or Indian lands under Item 2: NA

\_\_\_\_\_

\_\_\_\_\_

7. Methods for Handling Waste Disposal

Describe methods and location of proposed containment and disposal of waste material, including:

(1) Cuttings: Cuttings will be buried in the reserve pit. The pit will be constructed in "cut"; fenced on 3 sides during drilling and closed off on the 4th side at time of rig release.

\_\_\_\_\_

(2) Drilling fluids: Drilling fluids will be handled in the reserve pit and left to evaporate.

\_\_\_\_\_

\_\_\_\_\_

(3) Produced fluids (oil, water): Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of onsite for 30 days only, or 90 days with permission of District Supervisor. After that time, application will be made for approval of permanent disposal method in compliance with NTL-2b, and the rules and regulations of the State of Utah.

\_\_\_\_\_

7. Methods for Handling Waste Disposal (Continued)

- (4) Sewage: Human waste will be disposed of in chemically treated sanitary pits.

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- (5) Garbage and other waste material (trash pits should be fenced with small mesh wire to prevent wind scattering trash before being burned or buried): Garbage, waste, salts and other chemicals produced during drilling or testing will be handled in trash cage. The trash cage will be totally enclosed with small mesh wire to prevent wind scattering trash before being removed. Reserve pit will be fenced on 3 sides during drilling and closed off on the 4th side at the time of rig release.

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- (6) Statement regarding proper cleanup of wellsite area when rig moves out: Drilling fluid in pit, which will be very minimal due to air drilling, will be left to dry, if necessary. After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil placed on top of any remaining fluid and cuttings; then top soil will be used to cover both pit and location area.

8. Ancillary Facilities

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground): No air strip, camp or other facilities will be built during drilling of this well.

9. Wellsite Layout

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills: See Plat No. 2-A

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- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles: See Plats Nos. 2 & 3

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- (3) Rig orientation, parking areas and access roads: See Plat No. 3

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- (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at the time of field inspection. A registered surveyor is not mandatory for such operations): Pits will be unlined.

10. Plans for Restoration of Surface

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring and waste disposal; segregation of spoils materials as needed: If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, levelling, and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately to an approved sanitary land fill after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.

---

- (2) Revegetation and rehabilitation, including access roads (normally per BLM recommendations): The soil banked material will be spread over the area. Re-vegetation will be accomplished by planting mixed grasses as per BLM specifications.

---

- (3) Prior to rig release, pits will be fenced and so maintained until clean-up: Three sides of the reserve pit will be fenced during drilling and closed off on the 4th side following rig release to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.

10. Plans for Restoration of Surface (Continued)

- (4) If oil on pit, remove oil or install overhead flagging: If any oil is on the pits and is not immediately removed or burned after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) Timetable for commencement and completion of rehabilitation operations: The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and re-vegetation is considered best in the fall, between Sept. 15 and Nov. 15.

11. Other Information

General description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna: The road and location are on top of Atchee Ridge, a wide, gently rolling mesa. The soils are shallow and rocky. The vegetation consists of a dense pinon-juniper forest interspersed with sage and oak brush areas. Mule deer, coyotes, and native birds inhabit the area.
- (2) Other surface use activities and surface ownership of all involved lands: All construction activities are on land administered by the Bureau of Land Management.
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites: The closest live water is one mile SW of the wellsite in Indian Spring Canyon. The closest occupied dwellings are 6 miles SW of the wellsite in Bitter Creek.  
A cultural resource survey has been completed and the report is filed with the BLM in Vernal, Utah.

12. Lessee's or Operator's Representative

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan:

James G. Routson  
 Beartooth Oil & Gas Company  
 P. O. Box 2564  
 Billings, MT 59103  
 Office Ph: 406-259-2451  
 Home Ph: 406-245-8797

Ken Currey  
 Box 1491  
 Fruita, CO 81521  
 Mobile Phone: 303-245-3660 Unit 5858  
 Home Ph: 303-858-3257

13: Certification

The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan:

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 Beartooth Oil & Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4/27/82

Date

  
 Ken Currey

WELL CONTROL PLAN

1. Surface Casing: 9-5/8" O.D., 32.3 #/ft., Grade H-40, Short T&C, set at 200' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 9-5/8" x 10-3/4" - 900 series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: 7", 20#/<sup>& 23#</sup> K-55, set at 4585' and cemented with 150 sacks. The intermediate spool will be 10" - 900 x 10" - 900 series with two 2" 2000 psi L.P. outlets.
4. Blowout Preventor: A 10" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drill pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. A new rubber will be installed prior to drilling through the Dakota. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 1500 psi prior to drilling shoe joint on surface casing and intermediate casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 2000 psi at 8900' or a gradient of .23 psi/ft. or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.

BEARTOOTH OIL & GAS COMPANY

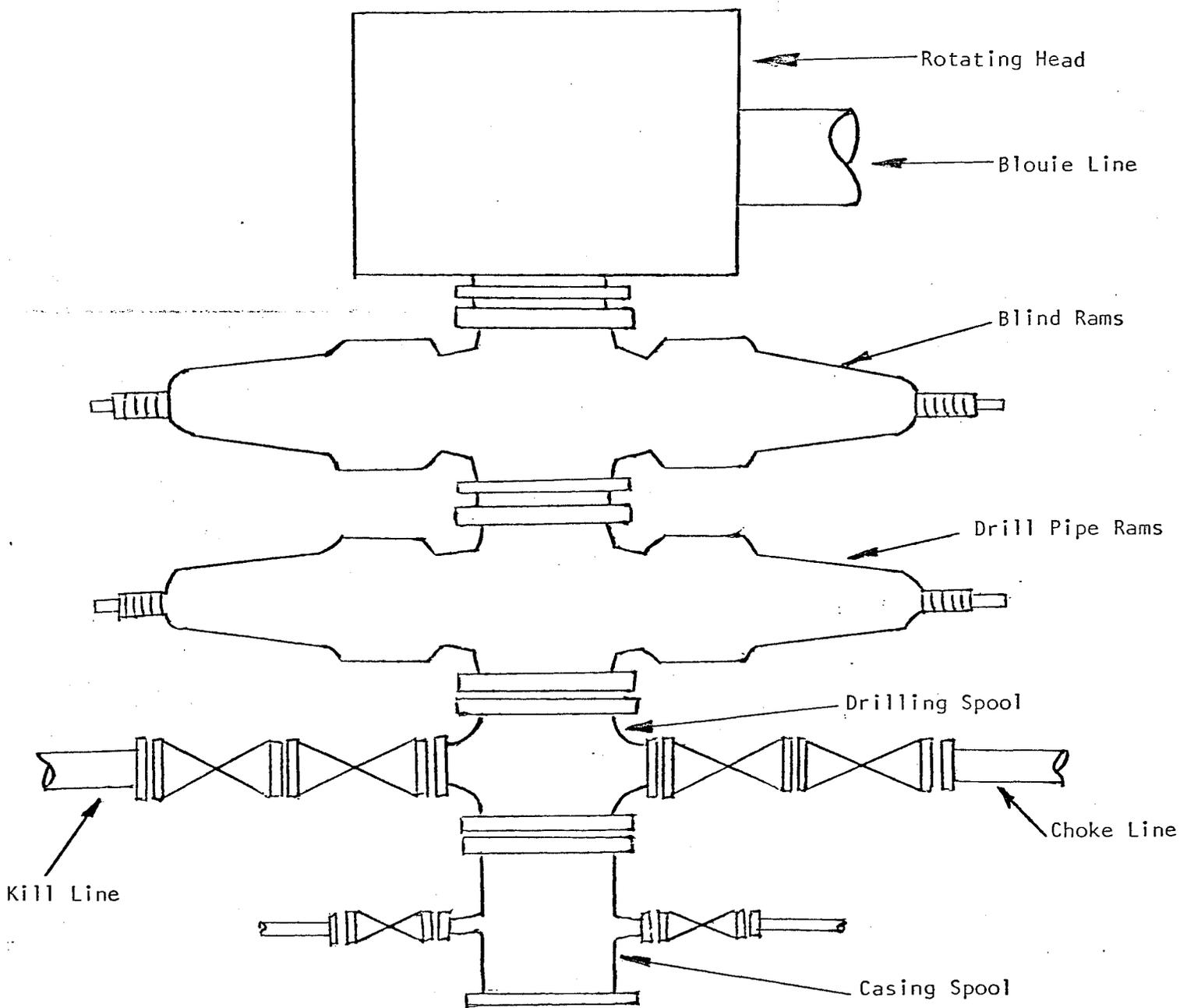
By:

James G. Routson  
James G. Routson, Petroleum Engineer

SCHEMATIC OF BOP STACK

Air drilled wells using 900 series wellhead equipment.

Interval from 200' to total depth.



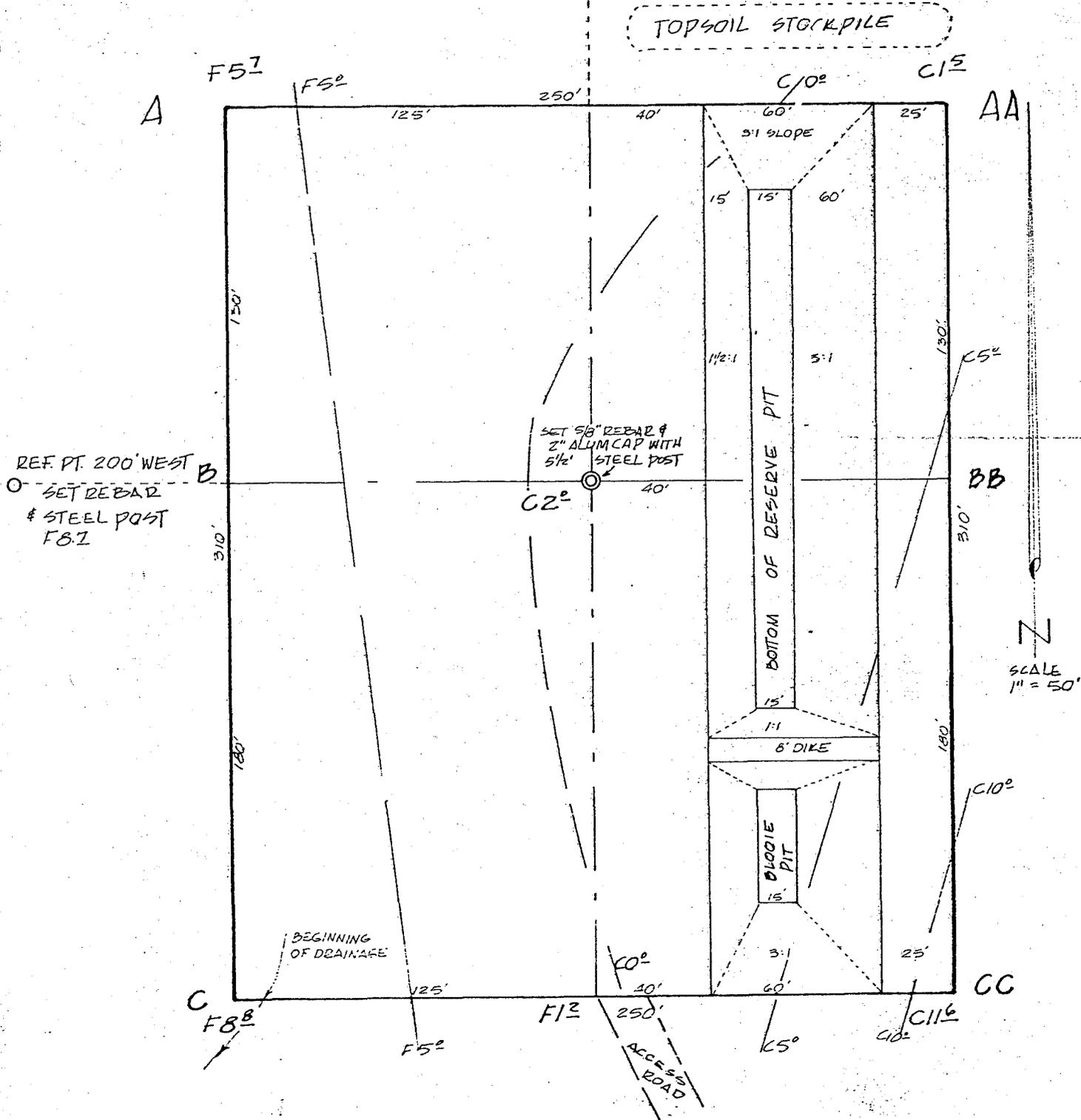
ESTIMATED QUANTITIES

PAD CUT	4250 C.YDS.
PIT CUT	4300 C.YDS.
PAD FILL	5700 C.YDS.
TOPSOIL	2870 C.YDS.
BORROW	20 C.YDS.

REF. PT. 200' NORTH  
SET REBAR # 8 STEEL POST  
F 82

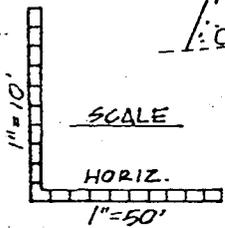
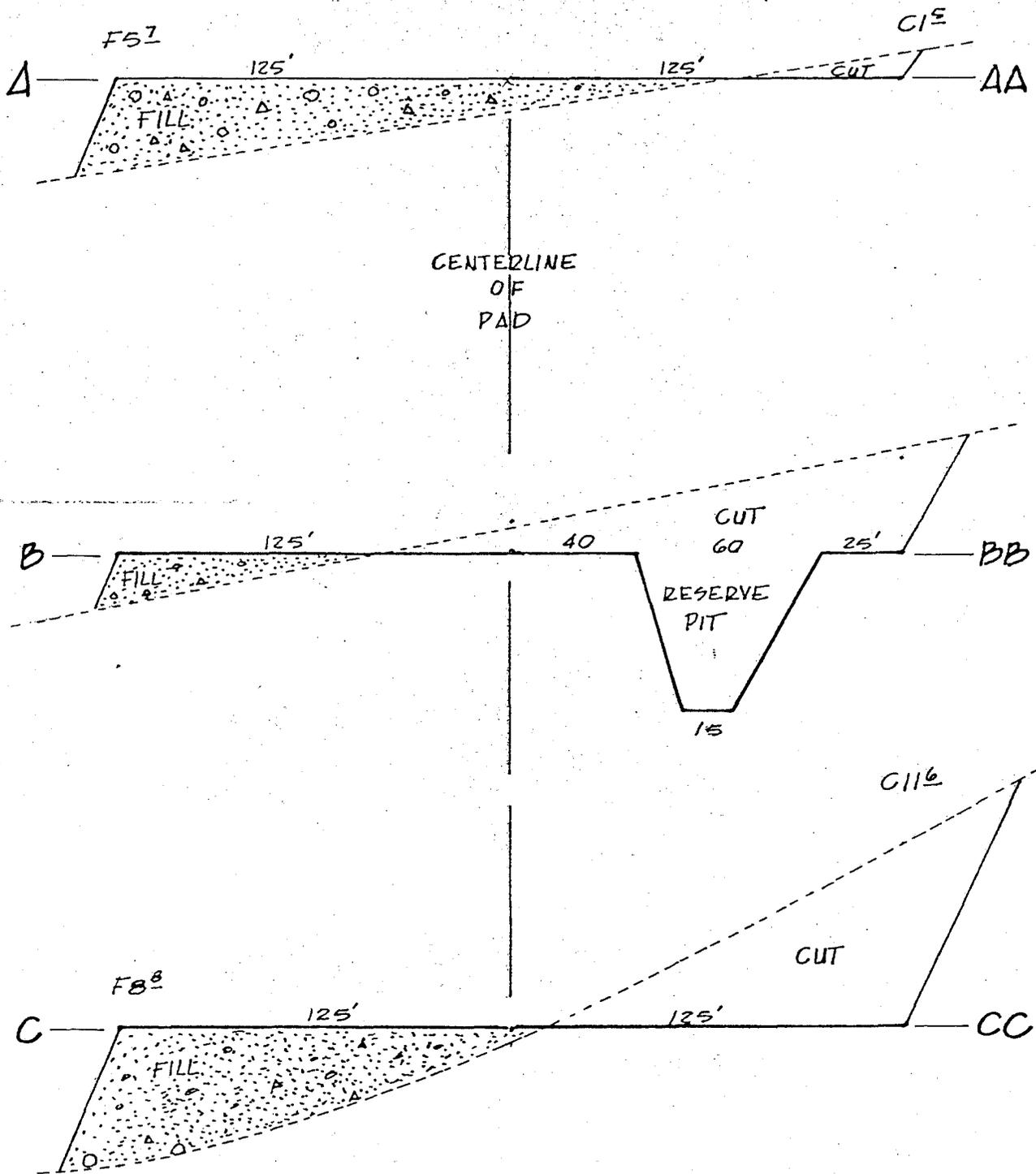
PLAT NO. 2  
PIT & PAD LAYOUT  
ENI-15-6 LOCATION  
BEAR TOOTH OIL & GAS CO.  
SEC. 15, T. 134, R. 25E.  
UINTAH COUNTY, UTAH

TOPSOIL STOCKPILE



ENERGY SURVEYS & ENGINEERING CORP.  
GRAND ST., COLO.

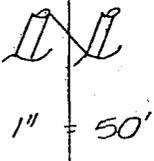
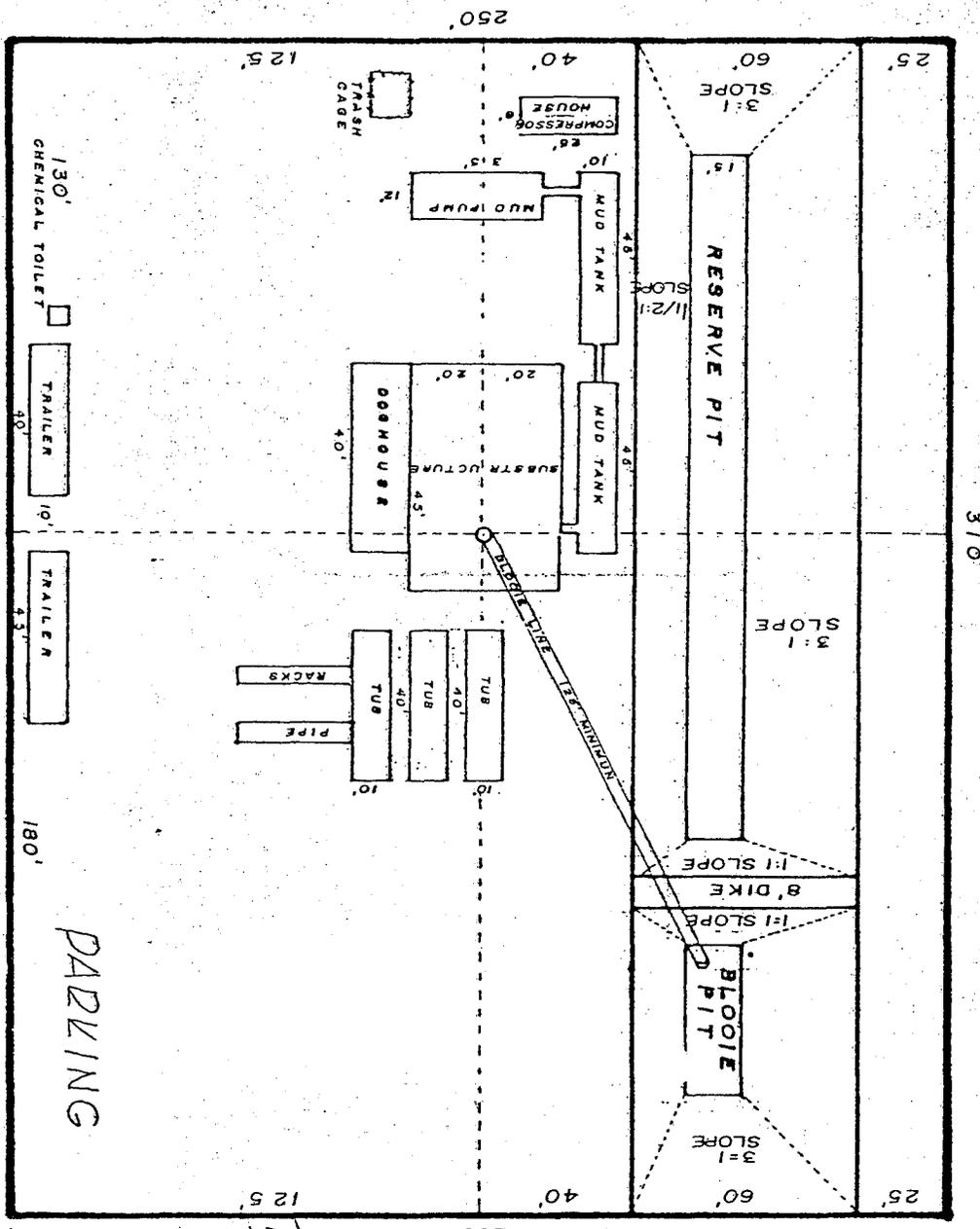
PLAT NO. 2A  
CROSS SECTIONS



BEARTOOTH OIL & GAS CO.  
ENI-15-6 WELL LOCATION

PREPARED BY ENERGY SURVEYS & ENGINEERING CORP.

PLAT NO. 3  
 DUAL RIG LAYOUT  
 ENI 15-6 LOCATION

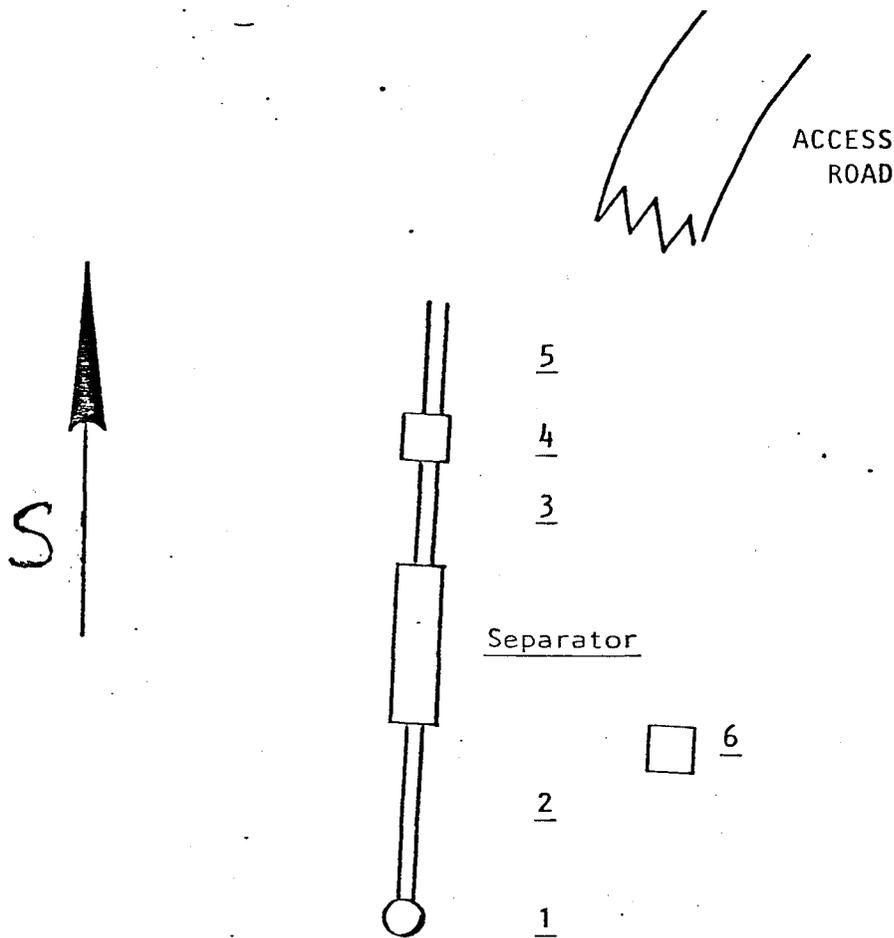


PARVING

ACCESS ROAD

PREPARED BY  
 ENERGY SURVEYS & ENGINEERING CORP.  
 GRAND JUNCTION, COLORADO

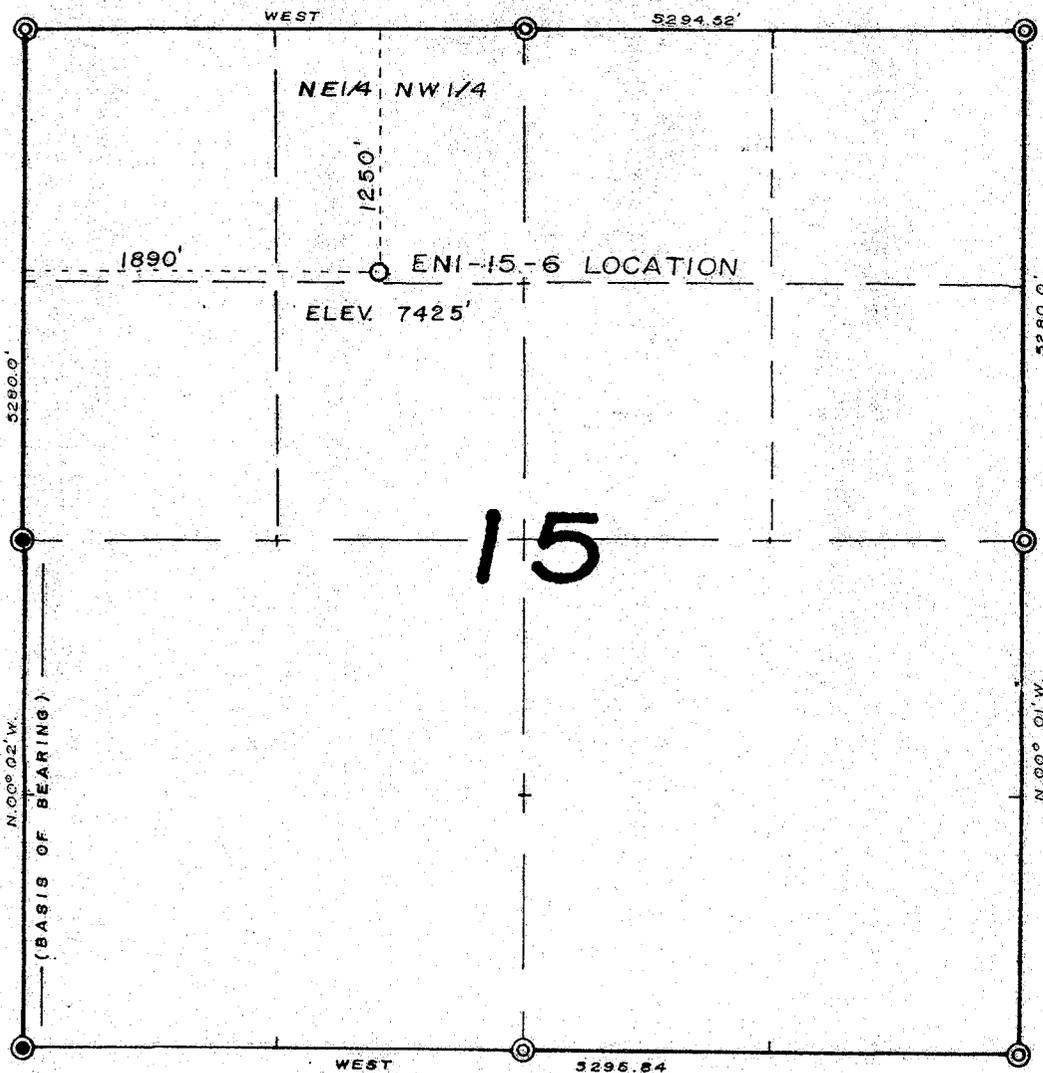
BEDTTOOTH OIL & GAS CO.  
 ENI-15-6 LOCATION  
 UINTAH COUNTY, UTAH



1. Wellhead will be a 6" - 900 series flanged top. Tubing head will be 10" - 900 x 6" - 5000 psi with two 2" 5000 psi flanged valves. Tree will be 2" screwed x 3000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 4" run, 500 psi static rating, 100" of water differential rating.
5. Gathering system not designed at this time.
6. Pit, if necessary, will be 10' x 10', enclosed by dikes and fenced.

SEC. 15, T. 13 S., R. 25 E. OF THE S. 1 B. & M.

PLAT NO. 1



N. 00° 01' W.

SCALE

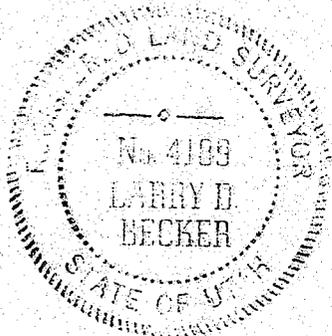
LEGEND

- ⊙ STANDARD LOCATION OF GLO CORNERS.
- GLO CORNERS FOUND.
- WELL LOCATION STAKED.

REFERENCE DOCUMENTS

- 1923 GLO PLAT
- DAVIS CANYON, UT-CO QUADRANGLE, USGS

THIS WELL LOCATION PLAT WAS PREPARED FOR BEARTOOTH OIL & GAS CO.  
 AS REQUESTED BY KEN CURREY, TO LOCATE THE  
ENI-15-6, 1250' F.N.L. & 1890' F.W.L.,  
 IN THE NE 1/4 NW 1/4, OF SECTION 15, T. 13 S., R. 25 E. OF THE S. 1 B. & M.  
UINTAH COUNTY, UTAH



SURVEYOR'S CERTIFICATE

I, LARRY D. BECKER A REGISTERED LAND SURVEYOR  
 IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS  
 SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND  
 THAT THIS PLAT REPRESENTS SAID SURVEY.

*Larry D. Becker*  
 \_\_\_\_\_  
 UTAH LS. NO. 4189

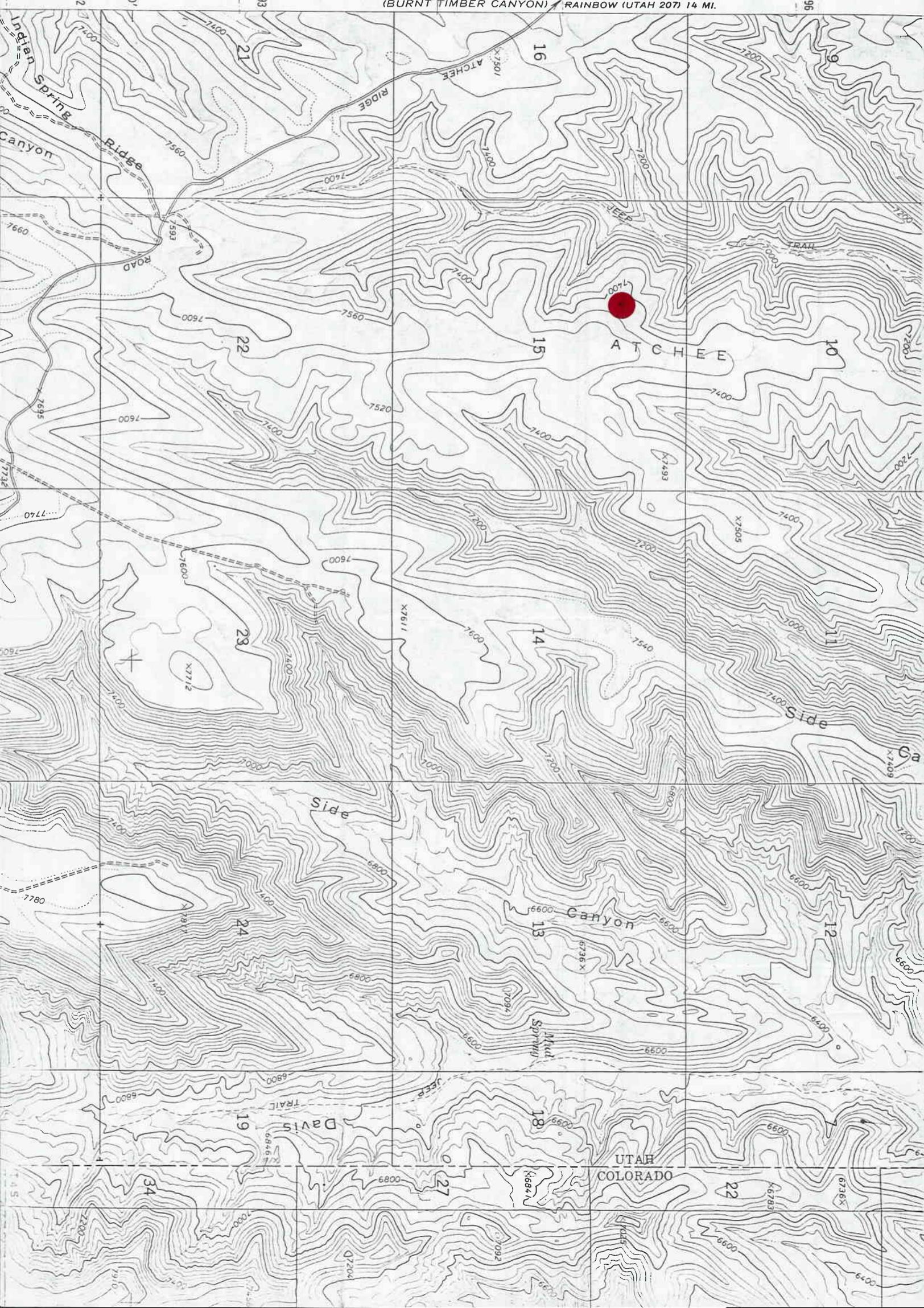
SURVEYED	1-12-82
DRAWN	1-14-82
CHECKED	1-14-82

ENERGY SURVEYS & ENGINEERING CORP.

1156 BOOK CLIFF AVE. NO. 4  
 GRAND JUNCTION, CO. 81501  
 503 245-7221

SCALE	1" = 1000'
JOB NO.	
SHEET	OF

4163 II NW  
(BURNT TIMBER CANYON) RAINBOW (UTAH 207) 14 MI.



UTAH  
COLORADO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION  
U-46730

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
None

7. UNIT AGREEMENT NAME  
SALT LAKE CITY, UTAH

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
ENI-Hatch No 15-6

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
NE 1/4 Sec. 15-T13S-R25E

12. COUNTY OR PARISH  
Uintah

13. STATE  
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

2. NAME OF OPERATOR  
Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR  
P. O. Box 2564, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface 1890' FWL, 1250' FNL  
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
35 miles south of Bonanza, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
1890'

16. NO. OF ACRES IN LEASE  
4549.6

17. NO. OF ACRES ASSIGNED TO THIS WELL  
320

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

19. PROPOSED DEPTH  
8935'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
7425' GL, 7441' KB

22. APPROX. DATE WORK WILL START\*  
July 1, 1982

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3# H-40-STC	200'	150 sacks Class "G"
8-3/4"	7" New	23 & 20# K55 STC	4585'	150 sacks 50-50 Pozmix
6-1/4"	4 1/2" New	11.6# N-80 LTC	8935'	375 sacks RFC - 2 stages

- Surface formation is the Mesaverde.
- Anticipated geologic markers are: Mancos 3975', Frontier 7995', Dakota 8315', Morrison 8495', Castlegate 4285'.
- Gas is anticipated in the Dakota, Morrison, and in the Mancos. No oil or other minerals are anticipated. Possible water sands are expected in the Mesaverde.
- Proposed casing program: See Item No 23 above.
- Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack. BOP's will be tested before drilling out from under surface and intermediate casing and checked daily.
- Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The well will be air drilled from under surface casing to total depth.

(continued back page)

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 James G. Routson TITLE Petroleum Engineer DATE 4/27/82  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY W.P. Mouton FOR E. W. GUYNN DATE JUN 04 1982  
CONDITIONS OF APPROVAL, IF ANY: DISTRICT OIL & GAS SUPERVISOR

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

NOTICE OF APPROVAL

*State Oil & Gas*

**Instructions**

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**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 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

7. Auxiliary equipment: See well control plan.
8. The logging program will consist of a DIL log from TD to base of intermediate casing and GR-FDC-SNP or CNL logs from TD to above the Frontier, and across the Mancos. No cores or DST's are planned.
9. No abnormal pressures or temperatures anticipated. No poisonous gas is anticipated.
10. Anticipated spud date is July 1, 1982, depending upon rig availability. Completion operations hold commencement within 30 days of rig release.
11. Survey plats are attached.
12. The gas is not dedicated.
13. Stipulation forms attached.
14. Bond will be furnished shortly.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-711-396

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WELL:  DRILL  DEEPEN  PLUG BACK

2. NAME OF OPERATOR: Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR: P. O. Box 2564, Billings, MT 59103

4. LOCATION OF WELL (Include Township, Range and Section with any other information): 1820' ETL, 1230' ETL

5. DISTANCE FROM THE TOP OF THE WELL TO THE PROPOSED LOCATION OF THE WELL: 25 miles south of Sheridan, Wyo.

6. LOCATION OF NEAREST ROAD: None

7. ELEVATION (Below Mean Sea Level): 7425' GL, 41' KS

8. PROPOSED DATE OF OPERATION: 1982

9. SIZE OF HOLE: 6-1/2" (6-1/2" x 6-1/2")

10. WEIGHT OF CEMENT: 11.8 x 10<sup>3</sup> LBS

11. WEIGHT OF MUD: 11.8 x 10<sup>3</sup> LBS

12. WEIGHT OF DRILLING FLUID: 11.8 x 10<sup>3</sup> LBS

Form 9-201 C (Mar 1982)

May 28 1982

United States Department of the Interior  
Minerals Management Service  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Beartooth Oil and Gas Company  
Project Type Gas Well  
Project Location 1890' FWL 1250' FNL Section 15, T.13 S., R.25 E.  
Well No. 15-6 Lease No. V-46730  
Date Project Submitted May 3, 1982

FIELD INSPECTION Date May 18, 1982

Field Inspection Participants  
Greg Darlington - MMS, Vernal  
Cory Bodman - BLM, Vernal  
Ken Currey - Beartooth Oil + Gas  
Bill Buniger - Buniger Construction

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.

May 27 1982  
Date Prepared

Greg Darlington  
Environmental Scientist

I concur

JUN 01 1982  
Date

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

### Proposed Actions :

Beartooth Oil and Gas Company plans to drill the ENI - Hatch 15-6 well an 8935' gas test of various formations. A new access road of 2.0 miles length will be required. An area of operations 250' by 310' has been requested for the location.

### Recommended Approval Conditions:

The operator agrees to accept and adhere to the following conditions in addition to the plans outlined in the APD:

1. BLM stipulations
2. Lease stipulations
3. Provide adequate logs for the identification of other minerals as requested in the Mineral Evaluation Report and Mining Report.

FIELD NOTES SHEET

Date of Field Inspection: May 18, 1982

Well No.: ENI-Hatch 15-6'

Lease No.: U-46730

Approve Location:

Approve Access Road:  2.0 miles - nice walk no real steep stretches.

Modify Location or Access Road: Place Topsoil near NW and SW corners

trees where topsoil pile was indicated in NE corner

250' x 310' Area of operations.      N-S length of Pad  
E-W width

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. Violate Federal, State, Local, or Tribal Laws

If this project is not eligible for Categorical Exclusion circle the numbers of the above criteria requiring the preparation of an EA.

Comments and special conditions of approval discussed at onsite: (include local topography) Long relatively flat bushy tree covered ridge with

very few if any good spots to land a helicopter; we walked from 12:00 -

Relatively close to Coeoka 14-27-13-25 well pending an onsite <sup>2:30</sup> <sub>for onsite</sub> <sub>trip</sub>

work. About a 2 1/2 hour drive from Vernal

Message problem 9:30 Scheduled Met at 10:45 had trouble  
communicating with Colorado West Mobile Service.

It was a rainy day the following day glad we had a good one  
for this onsite.

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
Public health and safety							1,2,4,6	May 18 1982	
Unique characteristics							1,2,4,6		
Environmentally controversial							1,2,4,6		
Uncertain and unknown risks							1,2,4,6		
Establishes precedents							1,2,4,6		
Cumulatively significant							1,2,4,6		
National Register historic places							1,6		
Endangered/threatened species							1,6		
Violate Federal, State, local, tribal law							1,2,4,6		

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 Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. *Onsite Requirements other than the items 1-7.*



*South View  
Bear tooth 15-6*



United States Department of the Interior

MINERALS MANAGEMENT  
SERVICE  
BUREAU OF LAND MANAGEMENT OIL & GAS OPERATIONS  
VERNAL DISTRICT OFFICE RECEIVED  
170 South 500 East  
Vernal, Utah 84078

MAY 27 1982

SALT LAKE CITY, UTAH

May 25, 1982

IN REPLY REFER TO

T & R  
U-802

Ed Gynn, District Engineer  
Mineral Management Services  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, UT 84104

Re: Beartooth Oil & Gas Corp.  
Well #15-6 Sec. 15, T13S, R25E  
Uintah County, Utah

Dear Sir:

A joint field examination was made on May 18, 1982, of the above referenced well site locations and proposed access roads. We feel that the surface use and operating plans are adequate with the following revisions and stipulations:

1. Construction and maintenance of roads, rehabilitation of disturbed areas and construction of pipeline routes, shall be in accordance with surface use standards as set forth in the brochure, "Surface Operating Standards for Oil and Gas Exploration."
2. Traveling off access road right-of-ways will not be allowed. The maximum width of access pads (both existing and planned) will be 30 feet total disturbed area. Roads will be crowned and properly maintained. Turn-outs will not be required. Bar ditches will be installed where necessary.
3. The BLM will be notified at least 24 hours prior to any construction.
4. Burn pits will not be constructed. There will be no burning or burying of trash or garbage at the well sites. Refuse must be contained in trash cages and hauled to an approved disposal site.
5. A wire mesh or net type of fence, topped with at least one strand of barbed wire, will be used around the reserve pits.
6. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding requirements.

7. PR Spring may not be used as a water source.
8. Live trees that must be removed may be pushed over and stockpiled separately from the topsoil. Large pieces of dead wood should also be stockpiled from the topsoil.
9. Trees and brush will be pushed off the road and pad prior to any mineral soil being bladed.
10. The top 6-8 inches of topsoil will be stockpiled in either one of two piles located near reference corner "A" or "C".

In order to minimize watershed damage, exploration, drilling, and other development activity will be allowed only during the period from April 30 to November 1. This limitation does not apply to maintenance and operation of producing wells. Exceptions to this limitation in any year may be specifically authorized in writing by the District Engineer, Geological Survey, with the concurrence of the District Manager, Bureau of Land Management.

All permanent (onsite for six (6) months duration or longer) structures constructed or installed, including the pumpjack and covering over tank insulation, shall be painted a flat, non-reflective, earth tone color to match Tnemec 23-08351 Mesa Brown Enduratone or an approved equal. All facilities shall be painted within six (6) months of when the production facilities are put in place. Facilities that are required to comply with O.S.H.A. (Occupational Safety and Health Act) standards are excluded.

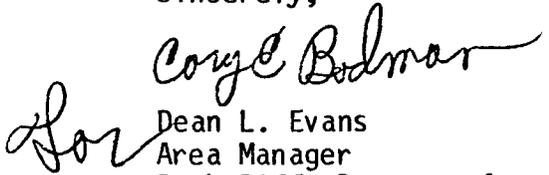
Choice of color stipulation may vary depending on location.

An archaeological clearance has been conducted by Centuries Research, Inc. of the proposed drill site and proposed access road. No cultural materials were located on the surface of the surveyed areas.

The proposed activities do not jeopardize listed, threatened, or endangered flora, fauna, or their habitats.

The BLM representative will be Cory Bodman, (801) 789-1362.

Sincerely,

  
Dean L. Evans  
Area Manager  
Bookcliffs Resource Area

cc: MMS, Vernal

WELVE POINT PLAN OF DEVELOPMENT  
FOR SURFACE USE FOR THE  
BEARTOOTH OIL & GAS COMPANY

ENI-HATCH-FEDERAL 15-6  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 15-T13S-R25E  
Unitah County, Utah

1. Existing Roads - a legible map showing:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.): See Survey Plat - Plat No. 1
- B. Route and distance from nearest town or locatable reference point to where well access route leaves main road: This location is reached by going south approx. 19 miles from Bonanza, Utah on the Evacuation Creek County road to Three Mile Canyon road thence (W) up that road approx. 5 miles to the Atchee Ridge road, then left (South) down that road approx. 9.5 miles to the beginning of new construction.
- C. Access road(s) to location color-coded or labeled: See Vicinity Map No. 3 and Access Map No. 1
- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.): NA
- E. If development well, all existing roads within a 1-mile radius of wellsite: All existing roads are shown on Map No. 1
- F. Plans for improvement and/or maintenance of existing roads: The existing roads need no improvement. Occasional blading is done by producing and pipeline companies in the area. Beartooth Oil & Gas will do maintenance blading on the existing roads.

2. Planned Access Roads - See Map No. 1

Map showing all necessary access roads to be constructed or reconstructed, showing:

- (1) Width & Disturbance: The road will be constructed with an 18 foot driving surface with a total disturbed width of 40 feet. All trees will be cut and decked and the slash scattered.
- (2) Maximum grades: 5% maximum grade
- (3) Turnouts: Turnouts will be constructed so that they are intervisible as topography dictates.
- (4) Drainage design: Natural drainage; road will follow contour of the land.
- (5) Location and size of culverts and brief description of any major cuts and fills: There are no major cuts and fills. The road follows the ridge top.
- (6) Surfacing material: Native material only; no material will be brought in.
- (7) Necessary gates, cattleguards, or fence cuts: No fences are crossed by this road.
- (8) New or reconstructed roads are to be center-line flagged at time of location staking: The road is center-line flagged.

3. Location of Existing Wells

Two-mile radius map if exploratory, or 1-mile radius map if development well showing and identifying existing (see Well Map No. 2)

- (1) Water wells: None
- (2) Abandoned wells: None
- (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) Monitoring or observation wells for other resources: None

4. Location of Existing and/or Proposed Facilities

A. Within 2-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

- 1. Tank batteries: None
- 2. Production facilities: None
- (3) Oil gathering lines: None
- (4) Gas gathering lines: \_\_\_\_\_
- (5) Injection lines: None
- (6) Disposal lines: None

(Indicate if any of the above lines are buried.)

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad: Gathering system not designed at this time.
- (2) Dimensions of facilities: See Plat No. 4. Separator 5' x 10', meter run 5' x 8', on drillsite pad and painted green to blend with the environment.
- (3) Construction methods and materials: No materials necessary. All lines will be coated, wrapped, and buried.
- (4) Protective measures and devices to protect livestock and wildlife: A 10' x 10' water pit within 50' of the separator will be fenced. A metal guard or fiberglass shelter will be around the wellhead.

4. Location of Existing and/or Proposed Facilities (Continued)

- C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction is completed: Upon completion of the drilling of this well, all pits will be backfilled and top soil replaced and re-contoured back to original terrain. Upon abandonment, all disturbed areas, including the location and access road, will be re-contoured, ripped or scarified as needed, and re-vegetated using a seed formula as specified by the BLM. Seeding will be done in the fall.
- 
- 
- 

5. Location and Type of Water Supply

- A. Show location and type of water supply either on map or by written description: The water supply for this well will be a private source in Rat Hole Canyon. A water agreement will be arranged with the owner, John Hill.
- 
- 
- B. State method of transporting water and show any roads or pipelines needed: Water will be transported by truck over the existing roadways and proposed access.
- 
- C. If water well is to be drilled on lease, so state. (No APD for water well is necessary, however, unless it will penetrate potential hydrocarbon horizons): No water well is to be drilled.
- 

6. Source of Construction Materials

- A. Show information either on map or by written description: No construction materials will be used other than native materials.
- 
- 
- B. Identify if from Federal or Indian land: Not applicable.
- 
- C. Describe where materials, such as sand, gravel, stone, and soil material are to be obtained and used: Soil from cuts will be used for fills. No outside material will be brought in.
- 
- 
- D. Show any needed access roads crossing Federal or Indian lands under Item 2: NA
- 

7. Methods for Handling Waste Disposal

Describe methods and location of proposed containment and disposal of waste material, including:

- (1) Cuttings: Cuttings will be buried in the reserve pit. The pit will be constructed in "cut"; fenced on 3 sides during drilling and closed off on the 4th side at time of rig release.
- 
- (2) Drilling fluids: Drilling fluids will be handled in the reserve pit and left to evaporate.
- 
- (3) Produced fluids (oil, water): Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of onsite for 30 days only, or 90 days with permission of District Supervisor. After that time, application will be made for approval of permanent disposal method in compliance with NTL-2b, and the rules and regulations of the State of Utah.
-

7. Methods for Handling Waste Disposal (Continued)

- (4) Sewage: Human waste will be disposed of in chemically treated sanitary pits.

---

- (5) Garbage and other waste material (trash pits should be fenced with small mesh wire to prevent wind scattering trash before being burned or buried): Garbage, waste, salts and other chemicals produced during drilling or testing will be handled in trash cage. The trash cage will be totally enclosed with small mesh wire to prevent wind scattering trash before being removed. Reserve pit will be fenced on 3 sides during drilling and closed off on the 4th side at the time of rig release.

---

- (6) Statement regarding proper cleanup of wellsite area when rig moves out: Drilling fluid in pit, which will be very minimal due to air drilling, will be left to dry, if necessary. After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil placed on top of any remaining fluid and cuttings; then top soil will be used to cover both pit and location area.

---

8. Ancillary Facilities

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground): No air strip, camp or other facilities will be built during drilling of this well.

9. Wellsite Layout

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills: See Plat No. 2-A

---

- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles: See Plats Nos. 2 & 3

---

- (3) Rig orientation, parking areas and access roads: See Plat No. 3

---

- (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at the time of field inspection. A registered surveyor is not mandatory for such operations): Pits will be unlined.

---

10. Plans for Restoration of Surface

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring and waste disposal; segregation of spoils materials as needed: If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, levelling, and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately to an approved sanitary land fill after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.

---

- (2) Revegetation and rehabilitation, including access roads (normally per BLM recommendations): The soil banked material will be spread over the area. Re-vegetation will be accomplished by planting mixed grasses as per BLM specifications.

---

- (3) Prior to rig release, pits will be fenced and so maintained until clean-up: Three sides of the reserve pit will be fenced during drilling and closed off on the 4th side following rig release to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.

---

10. Plans for Restoration of Surface (Continued)

- (4) If oil on pit, remove oil or install overhead flagging: If any oil is on the pits and is not immediately removed or burned after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) Timetable for commencement and completion of rehabilitation operations: The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and re-vegetation is considered best in the fall, between Sept. 15 and Nov. 15.

11. Other Information

General description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna: The road and location are on top of Atchee Ridge, a wide, gently rolling mesa. The soils are shallow and rocky. The vegetation consists of a dense pinon-juniper forest interspersed with sage and oak brush areas. Mule deer, coyotes, and native birds inhabit the area.
- (2) Other surface use activities and surface ownership of all involved lands: All construction activities are on land administered by the Bureau of Land Management.
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites: The closest live water is one mile SW of the wellsite in Indian Spring Canyon. The closest occupied dwellings are 6 miles SW of the wellsite in Bitter Creek.  
A cultural resource survey has been completed and the report is filed with the BLM in Vernal, Utah.

12. Lessee's or Operator's Representative

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan:

James G. Routson	Ken Currey
Beartooth Oil & Gas Company	Box 1491
P. O. Box 2564	Fruita, CO 81521
Billings, MT 59103	Mobile Phone: 303-245-3660 Unit 5858
Office Ph: 406-259-2451	Home Ph; 303-858-3257
Home Ph: 406-245-8797	

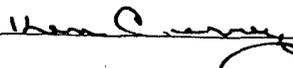
13: Certification

The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan:

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 Beartooth Oil & Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4/27/82

Date

  
Ken Currey

WELL CONTROL PLAN

1. Surface Casing: 9-5/8" O.D., 32.3 #/ft., Grade H-40, Short T&C, set at 200' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 9-5/8" x 10-3/4" - 900 series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: 7", 20#/<sup>& 23#</sup> K-55, set at 4585' and cemented with 150 sacks. The intermediate spool will be 10" - 900 x 10" - 900 series with two 2" 2000 psi L.P. outlets.
4. Blowout Preventor: A 10" 3000 psig W.P. double gate hydraulic shaffer BOP ( or equivalent ) with drill pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. A new rubber will be installed prior to drilling through the Dakota. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 1500 psi prior to drilling shoe joint on surface casing and intermediate casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 2000 psi at 8900' or a gradient of .23 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.

BEARTOOTH OIL & GAS COMPANY

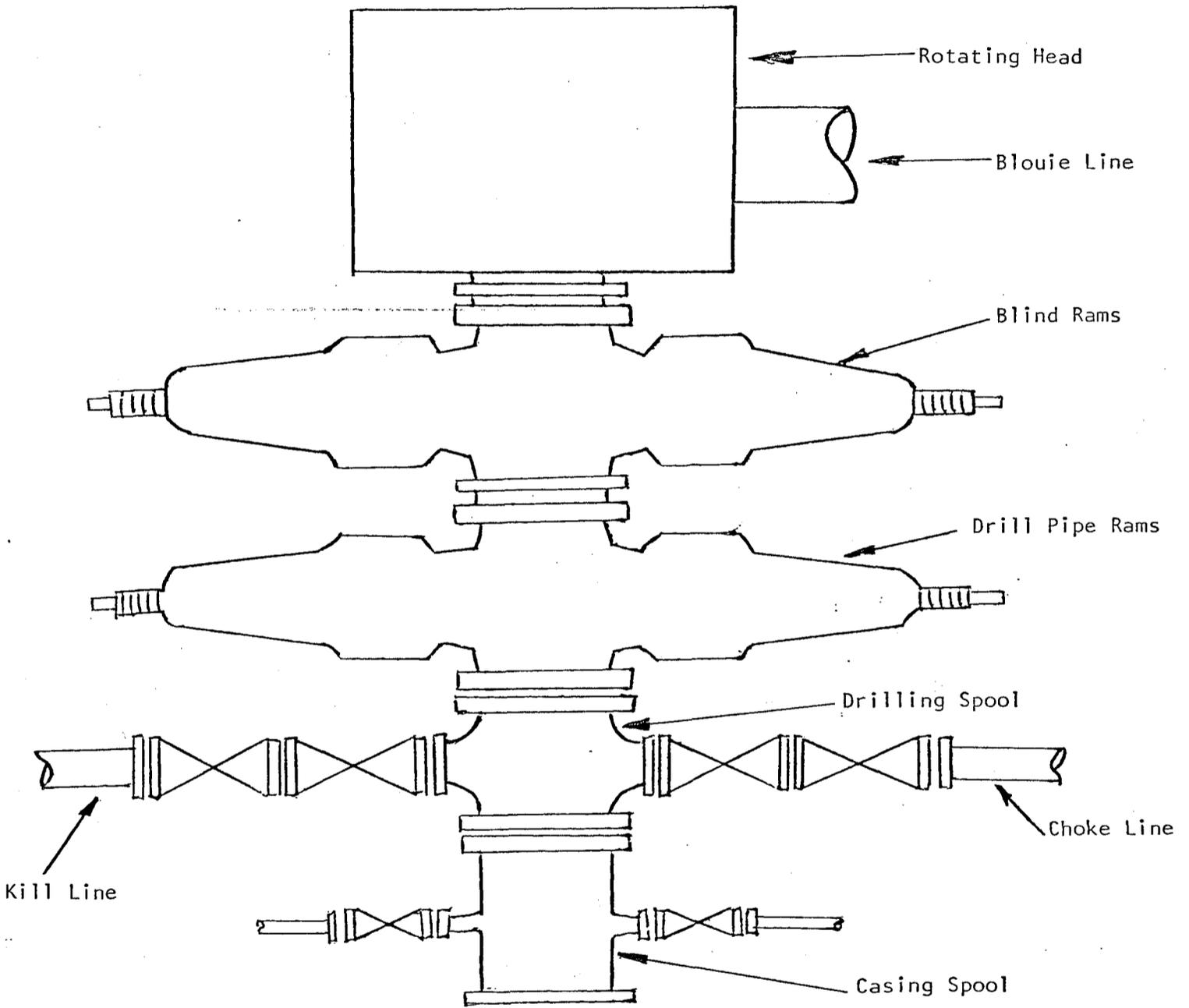
By:

James G. Routson  
James G. Routson, Petroleum Engineer

SCHEMATIC OF BOP STACK

Air drilled wells using 900 series wellhead equipment.

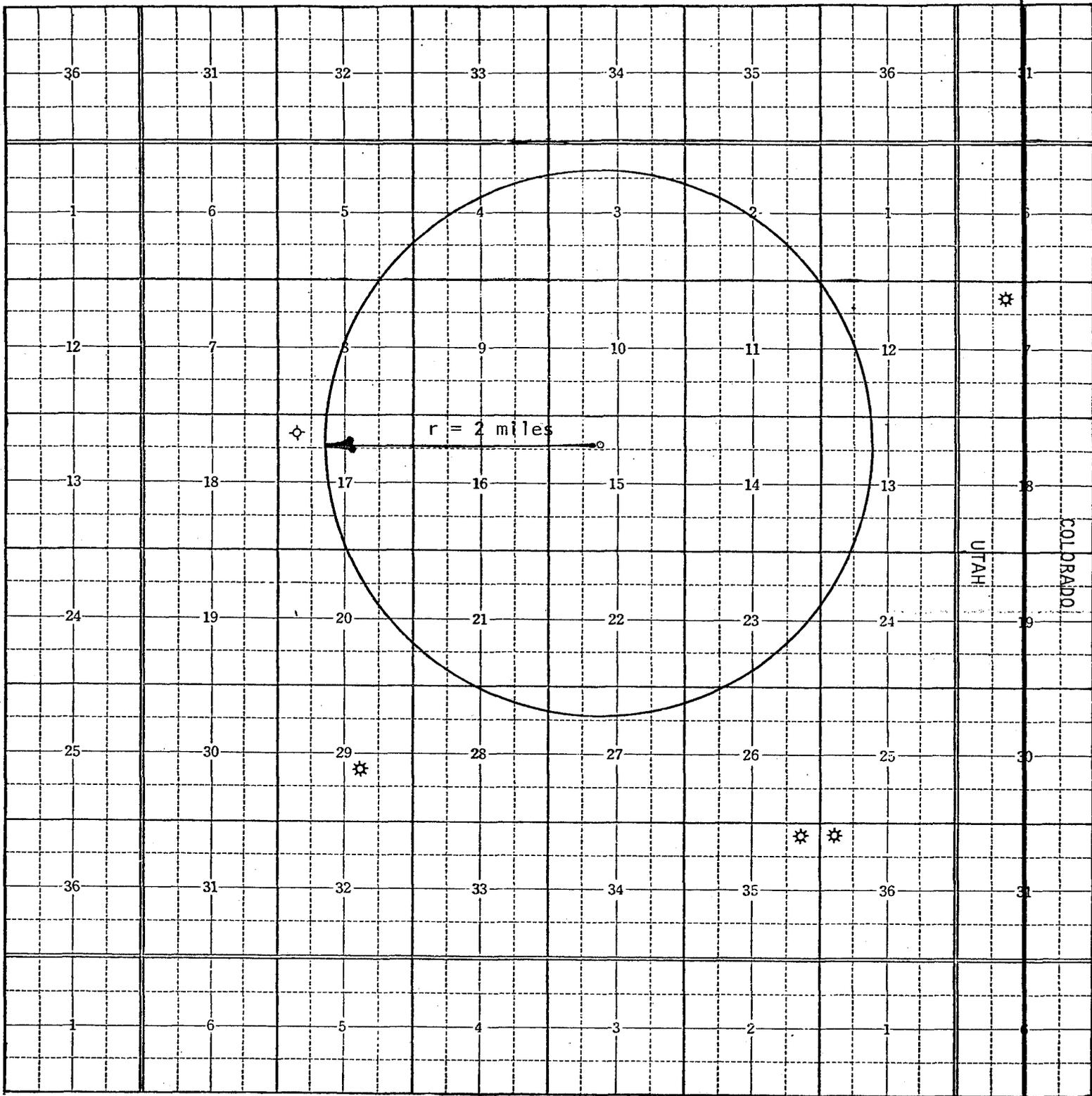
Interval from 200' to total depth.





Township 13S, Range 25#, County Uintah, State Utah

Island Township Plat



13S-25E

- NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 15      Beartooth ENI-Hatch No. 15-6
- NW $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 17      C. F. Raymond No. 1 Gov't
- NW $\frac{1}{4}$ SE $\frac{1}{4}$  Sec. 29      Coseka #1 Dry Burn Unit
- NW $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 35      Coseka #2 Dry Burn Unit
- NW $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 36      Natural Gas Corp. #11-36 Dry Burn State

13S-26E

- NE $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 7      Beartooth ENI No. 7-1



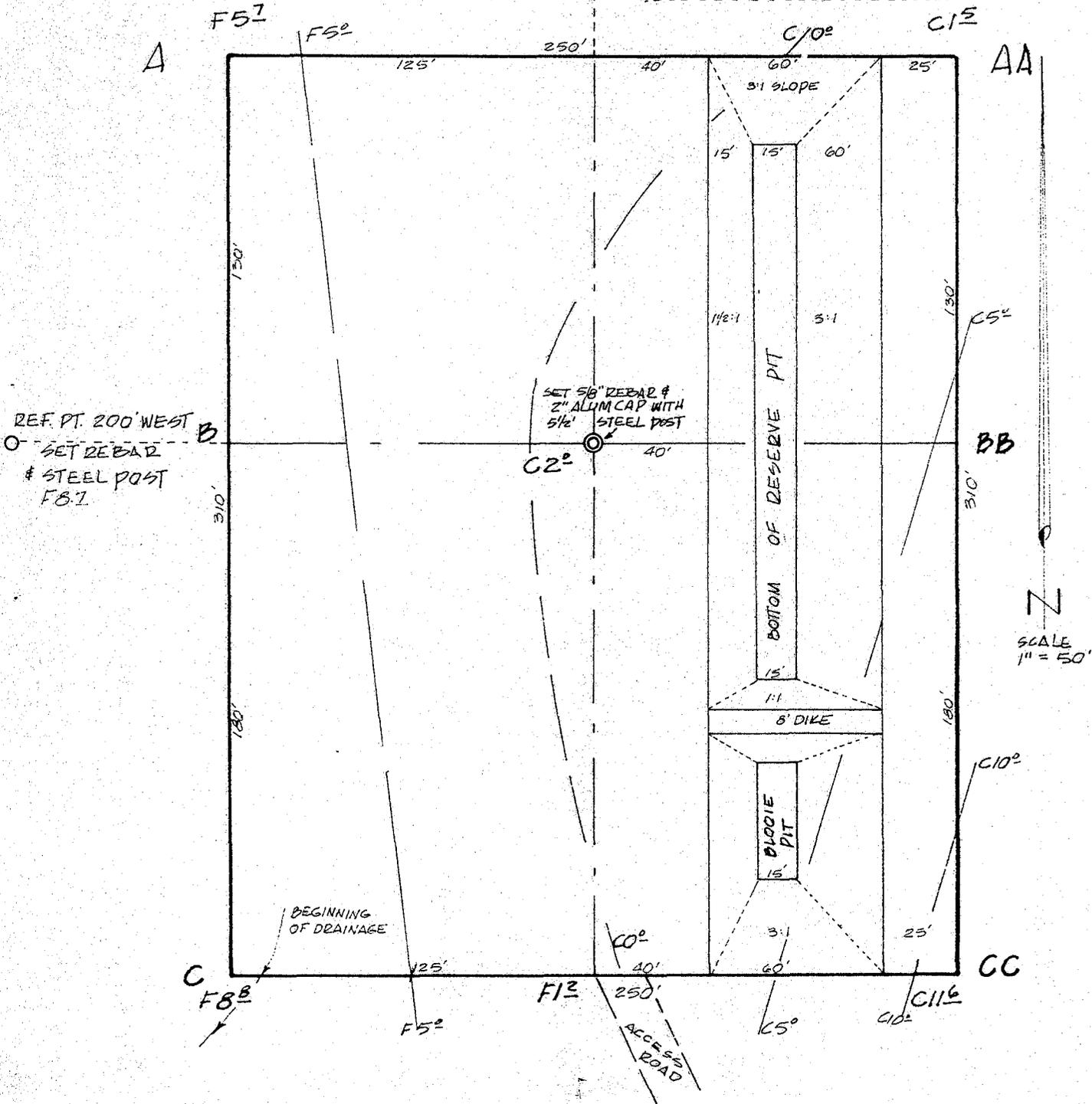
ESTIMATED QUANTITIES

PAD CUT	4250 C.YDS.
PIT CUT	4300 C.YDS.
PAD FILL	5700 C.YDS.
TOPSOIL	2870 C.YDS.
BORROW	20 C.YDS.

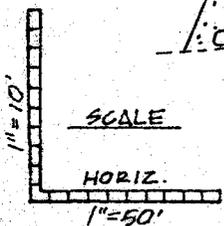
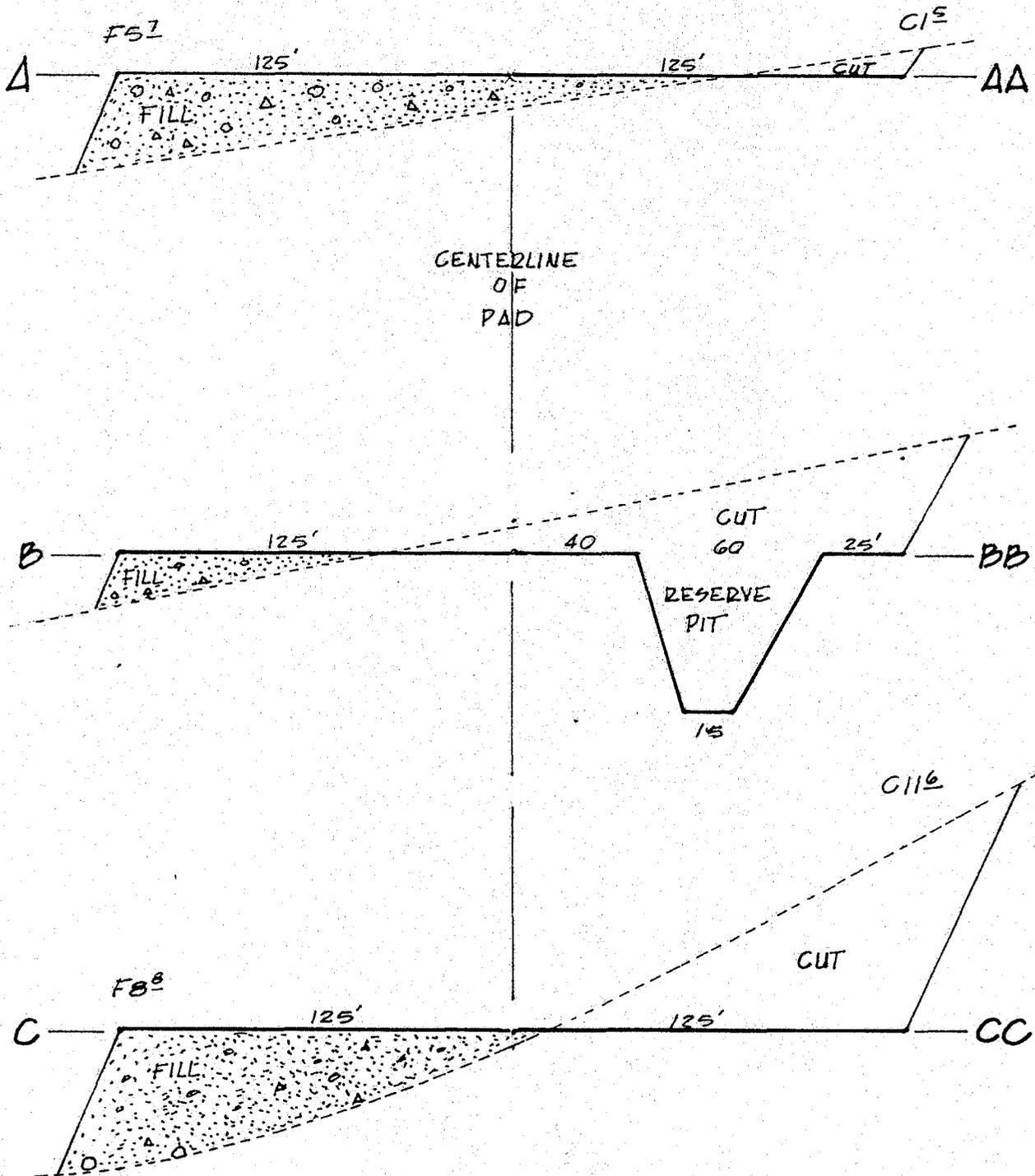
**PLAT NO. 2**  
**PIT & PAD LAYOUT**  
 ENI-15-6 LOCATION  
 BEARTOOTH OIL & GAS CO.  
 SEC. 15, T. 13S, R. 22E.  
 UTAH COUNTY, UTAH

REF. PT. 200' NORTH  
 SET REBAR # STEEL POST  
 F 8<sup>2</sup>

TOPSOIL STOCKPILE

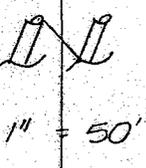
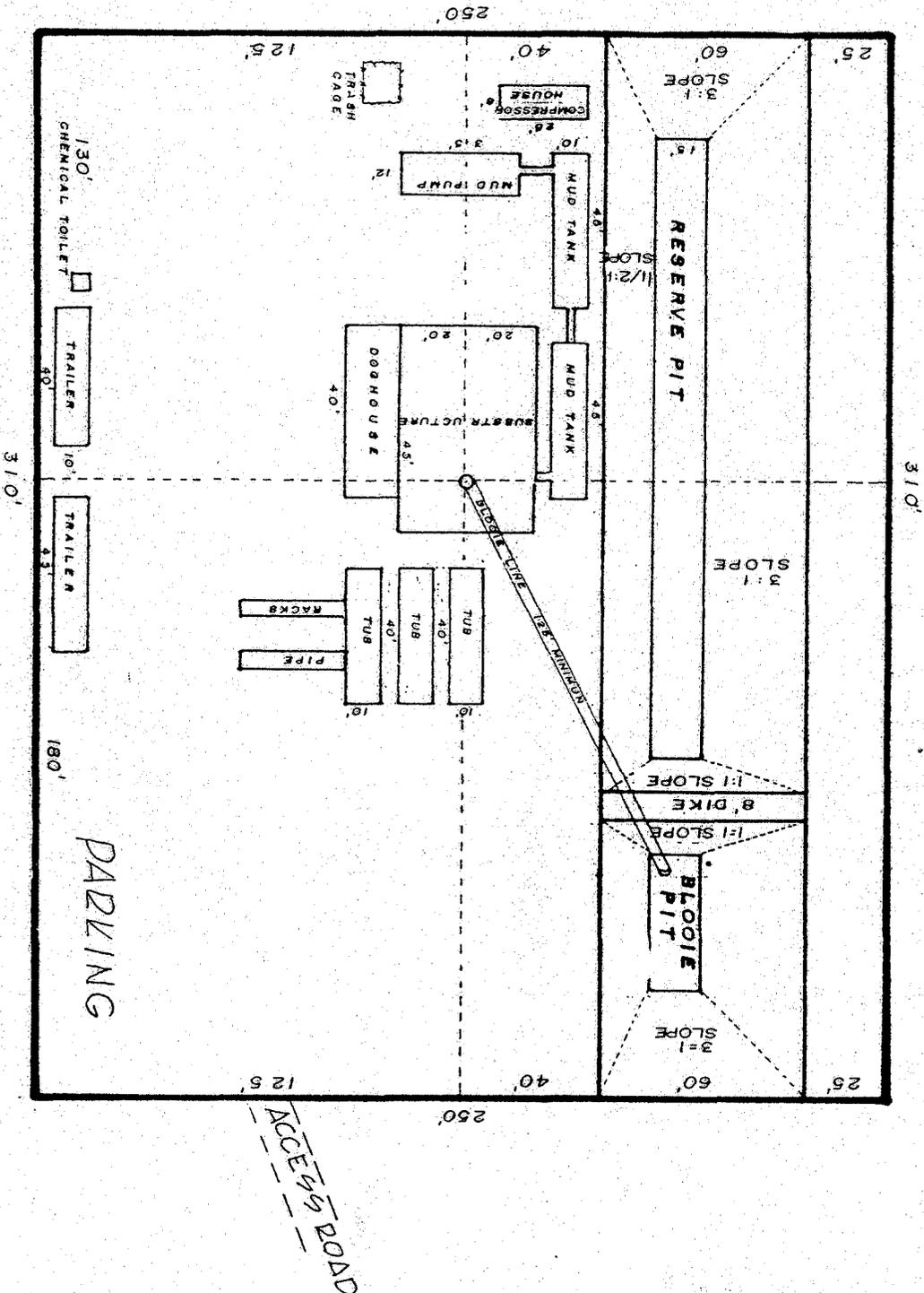


PLAT NO. 2A  
CROSS SECTIONS



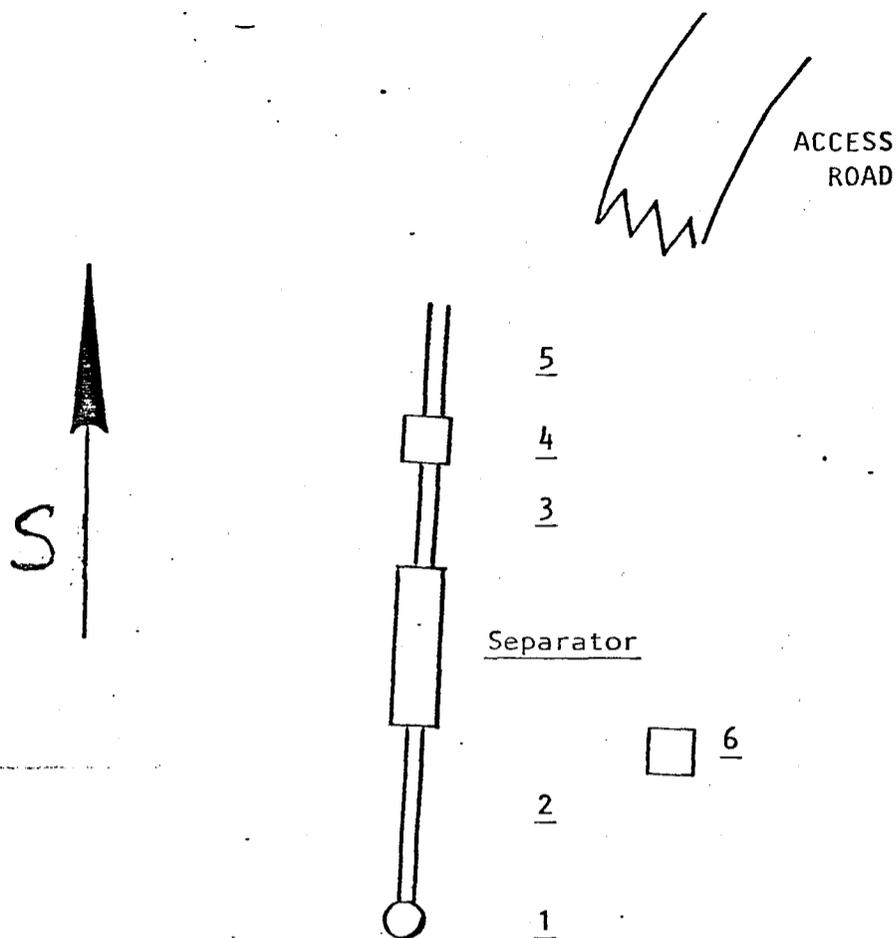
BEARTOOTH OIL & GAS CO.  
ENI-15-6 WELL LOCATION

PLAT NO. 3  
 DRILL RIG LAYOUT  
 ENI 15-6 LOCATION



PREPARED BY  
 ENERGY SURVEYS & ENGINEERING CORP.  
 GRAND JUNCTION, COLORADO

BEAR TOOTH OIL & GAS CO.  
 ENI 15-6 LOCATION  
 UTAH COUNTY, UTAH



1. Wellhead will be a 6" - 900 series flanged top. Tubing head will be 10" - 900 x 6" - 5000 psi with two 2" 5000 psi flanged valves. Tree will be 2" screwed x 3000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 4" run, 500 psi static rating, 100" of water differential rating.
5. Gathering system not designed at this time.
6. Pit, if necessary, will be 10' x 10', enclosed by dikes and fenced.

\*\* FILE NOTATIONS \*\*

DATE: 5-12-82

OPERATOR: Beartooth Oil & Gas Co.

WELL NO: ENE-Hatch # 15-6

Location: Sec. 15 T. 13S R. 25E County: Witch

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-047-31231

CHECKED BY:

Petroleum Engineer: ok [Signature]

Director: \_\_\_\_\_

Administrative Aide: [Signature] is per Rule C-3 (c)  
(Letter of exception)

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

Plotted on Map

Approval Letter Written

Hot Line

P.I.

BEARTOOTH OIL & GAS COMPANY \_\_\_\_\_

P.O. BOX 2564

BILLINGS, MONTANA 59103

(406) 259-2451

May 17, 1982

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

Re: ENI Hatch Federal No. 15-6  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 15-13S-25E  
Uintah County, Utah

Gentlemen:

This letter is to request a topographic exception location for the above referenced well. The location is situated on a bench on the west side of Atchee ridge, and a move north or south would drop it off in a draw, resulting in much additional dirt work.

Attached for your information is a copy of the USGS "Davis Canyon" topo map.

Yours very truly,

BEARTOOTH OIL & GAS COMPANY

*James G. Routson*  
James G. Routson  
Petroleum Engineer

JGR/gb

Attachment

RECEIVED  
MAY 21 1982

DIVISION OF  
OIL, GAS & MINING

June 3, 1982

Beartooth Oil & Gas Company  
P.O. Box 2564  
Billings, Montana 59103

RE: Well No. ENI-Hatch #15-6  
Sec. 15, T13S, R25E  
Uintah County

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

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

CLEON B. FEIGHT  
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 43-047-31231.

Sincerely,

DIVISION OF OIL, GAS AND MINING



Ronald J. Firth  
Chief Petroleum Engineer

RJF:SC  
cc: Minerals Management Service  
Enclosure

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: BEARTOOTH OIL AND GAS

WELL NAME: ENI-Hatch Fed. #15-6

SECTION NENW 15 TOWNSHIP 13 S RANGE 25 E COUNTY Uintah

DRILLING CONTRACTOR Cardinal Drilling

RIG # 4

SPUDDED: DATE 6-11-82

TIME 7:00 AM

How Dry Hole

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Grace Brown

TELEPHONE # 406-259-2451

DATE 6-15-82 SIGNED AS

NOTICE OF SPUD

Company: Bear Tooth

Caller: Grace

Phone: 406-259-2451

Well Number: ENI Hatch No. 15-6

Location: NE NW Sec 15-19S-25E

County: Montana State: Mont

Lease Number: U-46730

Lease Expiration Date: \_\_\_\_\_

Unit Name (If Applicable): \_\_\_\_\_

Date & Time Spudded: 7:00 AM 6-11-82

Dry Hole Spudder/Rotary: \_\_\_\_\_

Details of Spud (Hole, Casing, Cement, etc.) 13" to 225'  
6 joints 9 7/8" 36 lb casing to 219' RB  
Cemented w/ 170 sls

Rotary Rig Name & Number: Cardinal Helg # 4

Approximate Date Rotary Moves In: Waiting on Rig

FOLLOW WITH SUNDRY NOTICE

Call Received By: DeLain

Date: 6-15-82

**RECEIVED**

JUN 17 1982

DIVISION OF  
OIL, GAS & MINING

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

2. NAME OF OPERATOR  
Bearthooth Oil & Gas Company

3. ADDRESS OF OPERATOR  
P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1890' FWL, 1250' FNL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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 type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

\_\_\_\_\_ Status Report \_\_\_\_\_

5. LEASE  
U-46730

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
ENI-Hatch No. 15-6

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 15-13S-25E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-31231

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7425' GL, 7441' KB

(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.)\*

Well spudded with dry hole spudder at 7:00 AM 6/11/82. Drilled 13" hole to 225'. Ran 6 joints 9-5/8" 36# casing to 219' KB. Cement with 170 sacks Class "B", 2% CaCl<sub>2</sub>, 1/4# celloflake/sack. Plug down at 10:30 AM 6/12/82.

Waiting on rotary rig.

**RECEIVED**  
JUN 17 1982

**DIVISION OF  
OIL, GAS & MINING**

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Grace E. Brown TITLE Drilling Dept. DATE 6/15/82

(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\*

(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R355.6

5. LEASE DESIGNATION AND SERIAL NO.

U-46730

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

ENI-Hatch No. 15-6

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 15-T13S-R25E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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

2. NAME OF OPERATOR

Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 2564, Billings, Montana 59103

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

At surface 1890' FWL, 1250' FNL

At top prod. interval reported below

At total depth same

**RECEIVED**

JUL 07 1982

DIVISION OF  
OIL, GAS & MINING

New

14. PERMIT NO.

43-047-31231

DATE ISSUED

6/3/82

15. DATE SPUNDED

6/11/82

16. DATE T.D. REACHED

6/30/82

17. DATE COMPL. (Ready to prod.)

Plugged 7/1/82

18. ELEVATIONS (DF, REB, RT, GR, ETC.)\*

7425' GL, 7441' KB

19. ELEV. CASINGHEAD

7425'

20. TOTAL DEPTH, MD & TVD

8562'

21. PLUG, BACK T.D., MD & TVD

4500'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

None

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-FDC-CNL SP-DIL

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
9-5/8"	36# H-40	219'	13"	170 sx Class "B", 2% CaCl <sub>2</sub>	None
7"	23# J-55	4602'	8-3/4"	225 sx Litepoz and 100 sx Class "H", 2% CaCl <sub>2</sub> (cement top 1800')	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD
None					SIZE: None DEPTH SET (MD): PACKER SET (MD):

31. PERFORATION RECORD (Interval, size and number)

None

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Plug #1 - 8560-8200'	70 sacks
Plug #2 - 6700-6500'	40 sacks
Plug #3 - 4700-4500'	40 sacks

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
P&A 7/1/82							
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 James G. Routson  
James G. Routson

TITLE Petroleum Engineer

DATE 7/2/82

\*(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 report 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 29: "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	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VBET. DEPTH
Castlegate	4325	4350	Water	Castlegate	4325'	
Dakota	8366	8392	Tight, small show of gas, damp	Mancos "B"	5540'	
Morrison	8394	8424	Tight, damp	Frontier	7930'	
				Dakota Silt	8152	
				Dakota Sand	8220	
				Morrison	8390	

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  
Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR  
P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1890' FWL, 1250' FNL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: same

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

5. LEASE  
U-46730

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
ENI-Hatch No. 15-6

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
NE 1/4 NW 1/4 Section 15-T13S-R25E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-31231

15. ELEVATIONS (SHOW DF, KDB, AND WD)

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.)\*

Total Depth 8562' reached on 6/30/82.

Well plugged on 7-1-82 as follows: 70 sacks - 8562-8200'  
40 sacks - 6700-6500'  
40 sacks - 4700-4500'

Verbal plugging orders were received from W. P. Martens, USGS and Ron Firth, State of Utah. Additional plugging procedures for the intermediate hole will be submitted when the final geologic report is reviewed.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED James G. Routson TITLE Petroleum Engineer DATE 7/2/82  
James G. Routson

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

\*See Instructions on Reverse Side

DATE: 7/18/82  
BY: [Signature]

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator Beartooth Oil & Gas Representative Jim Routson

Well No. #15-6 ENI Hatch Location NE 1/4 NW 1/4 Section 15 Township 13 S Range 25 E

County Uintah Field Wildcat State Utah

Unit Name and Required Depth \_\_\_\_\_ Base of fresh water sands \_\_\_\_\_

T.D. 8560' 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
<u>7</u>	<u>4591'</u> <u>w/325 sks.</u>	<u>18,001'±</u>		<u>1. 8560'</u>	<u>8200' (to above Dakota)</u>	
				<u>2. 200' stabilizer plug</u>		
<u>Formation</u>	<u>Top</u>	<u>Base</u>	<u>Shows</u>	<u>3. 100' in &amp; 100' out of 7" int. csg.</u>		

REMARKS

DST's, lost circulation zones, water zones, etc., \_\_\_\_\_

Plugging as per M.M.S.

Operator to delay final P & A for further evaluation

Approved by R. J. Firth Date 7-1-82 Time \_\_\_\_\_ a.m.  
p.m.

TR Sec?

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  
Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR  
P. O. Box 2564, Billings, Montana

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1890' FWL, 1250' FNL  
AT TOP PROD. INTERVAL: same  
AT TOTAL DEPTH: same

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

5. LEASE  
U-46730

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
ENI-Hatch No. 15-6

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 15-T13S-R26E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-31231

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7425' GL, 7441' KB

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.)\*

7" casing set @ 4602', cemented to 1800' with 325 sacks. 9-5/8" casing set @ 219', cemented to surface with 170 sacks. PBTD in 7" is 4500'. Well is full of 9.2 ppg mud.

We propose to finish abandoning this well as follows: Cut off and pull 7" casing @  $\pm$  1750'. Spot 70 sack plug 1850-1650'. Spot 35 sack plug 270-170'. Spot 10 sack plug 25'-surface. Erect regulation depth hole marker. Re-survey location and reseed in Fall of 1982.

*Mud between plugs*

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

DATE: 7/15/82  
BY: [Signature] Ft.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

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

SIGNED James G. Routson TITLE Petroleum Engineer DATE 7/9/82  
James G. Routson

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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: Federal ENI-Hatch No. 15-6  
Operator: Beartooth Oil & Gas Company Address: P. O. Box 2564, Billings, MT  
Contractor: Cardinal Drilling Company Address: P. O. Box 1077, Billings, MT  
Location NE 1/4 NW 1/4; Sec. 15 T. 13 <sup>N</sup><sub>S</sub>, R. 24 <sup>E</sup><sub>W</sub>; Uintah County.

Water Sands:

<u>Depth:</u>		<u>Volume:</u>	<u>Quality:</u>
From-	To-	Flow Rate or Head	Fresh or Salty
1. <u>1845</u>	<u>1860</u>	Est. 10 BWPB while air drilling	fresh
2. <u>2600</u>	<u>2625</u>	Est. 10 BWPB while air drilling	fresh
3. <u>3500</u>	<u>3600 (3 benches)</u>	Not measured - Est. 20+ BWPB	fresh
4. <u>4325</u>	<u>4400</u>	Not measured - mud drilled	
5.			

(Continue on Reverse Side if Necessary)

Formation Tops:

Mesaverde - surface  
Mancos - 3995'  
Castlegate -4325'

Remarks:

7" casing set to 4598' log depth. Cement top behind 7" calculated to be 1800'. No/water while drilling with air above 1845' measurable

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

**RECEIVED**

JUL 16 1982

DIVISION OF  
OIL, GAS & MINING

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  
Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR  
P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
1890' FWL, 1250' FNL  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: same

5. LEASE  
U-46730

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
ENI Hatch No. 15-6

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
NE 1/4 NW 1/4 Sec. 15-T13S-R25E

12. COUNTY OR PARISH Uintah 13. STATE Utah

14. API NO.  
43-047-31231

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7441' KB

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

REQUEST FOR APPROVAL TO:      SUBSEQUENT REPORT BY

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON\*

(other) \_\_\_\_\_

RECEIVED

OCT 18 1982

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

DIVISION OF  
OIL, GAS & MINING

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.)\*

Well was abandoned as follows on 10/4/82.

7" casing cut @ 1498' and pulled.  
70 sack cement plug set @ 1400-1600'  
35 sack cement plug set @ 270-170'  
10 sack cement plug set @ 25-surface

Mud circulated between all plugs. Regulation dry hole marker was erected.

Location will be recontoured and seeded before December 1, 1982.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED James G. Roufson TITLE Petroleum Engineer DATE 10/14/82  
James G. Roufson

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY \_\_\_\_\_  
OF UTAH DEPARTMENT OF  
OIL, GAS, AND MINING  
DATE 10/14/82  
BY: [Signature]

\*See Instructions on Reverse Side