

BEARTOOTH OIL & GAS COMPANY

P.O. Box 2564

Billings, Montana 59103

(406) 259-2451

RECEIVED

JUN 8 1984

**DIVISION OF OIL
GAS & MINING**

June 5, 1984

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

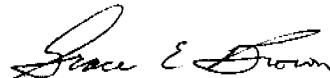
Attention: Mr. Greg Darlington

Gentlemen:

Enclosed please find Applications for Permit to Drill our Federal No. 25-16 and Federal No. 35-6 wells in Uintah County, Utah, for your approval.

Yours very truly,

BEARTOOTH OIL & GAS COMPANY



Grace E. Brown
Drilling Department

gb

Enclosures

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

RECEIVED

JUN 8 1984

**DIVISION OF OIL
GAS & MINING**

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

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42 R1422

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
 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 1226' FEL 557' FSL
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 40 Miles Northwest of Mack, Colorado

16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 557

16. NO. OF ACRES IN LEASE 440

17. NO. OF ACRES ASSIGNED TO THIS WELL 240

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

19. PROPOSED DEPTH 8980'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7568 GL, 7580 KB

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

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	300'	150 sacks Class "G" - to surface
8-3/4"	7" New 23#	20# K-55 STC	5030'	150 sacks 50-50 poxmix
6-1/4"	4-1/2" New	11.6# N-80 LTC	8980'	175 sacks RFC

- Surface formation is the Green River.
- Anticipated geologic markers are: Wasatch 1116', Mesaverde 2150', Mancos 4480', Castlegate 4720', Frontier 8095', Dakota 8450', Morrison 8614'.
- Gas is anticipated in the Dakota & Morrison. No oil or other minerals are anticipated. Possible water sands are expected in the Mesaverde and Wasatch.
- Proposed casing program: See Item No. 23 above.
- Pressure control equipment: See attached well control plan and schematic 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. If excessive water is encountered, the intermediate hole will be finished with chem-gel mud.

(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 June 4, 1984
 James G. Routson

PERMIT NO. _____

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

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

DATE RECEIVED
 JUN 8 1984
 DIVISION OF OIL
 GAS & MINING

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 or 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.

U.S. GOVERNMENT PRINTING OFFICE : 1981 O - 345-739

7. Auxiliary equipment: See well control plan.

8. Logging program will consist of a DIL log from TD to base of intermediate casing, and

9. Casing logs from TD to above the Frontier. No cores or DST's are planned.

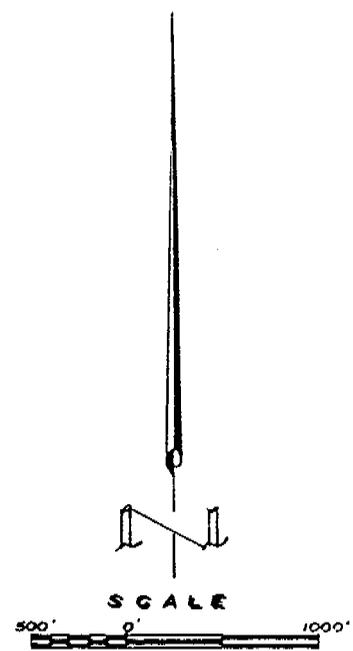
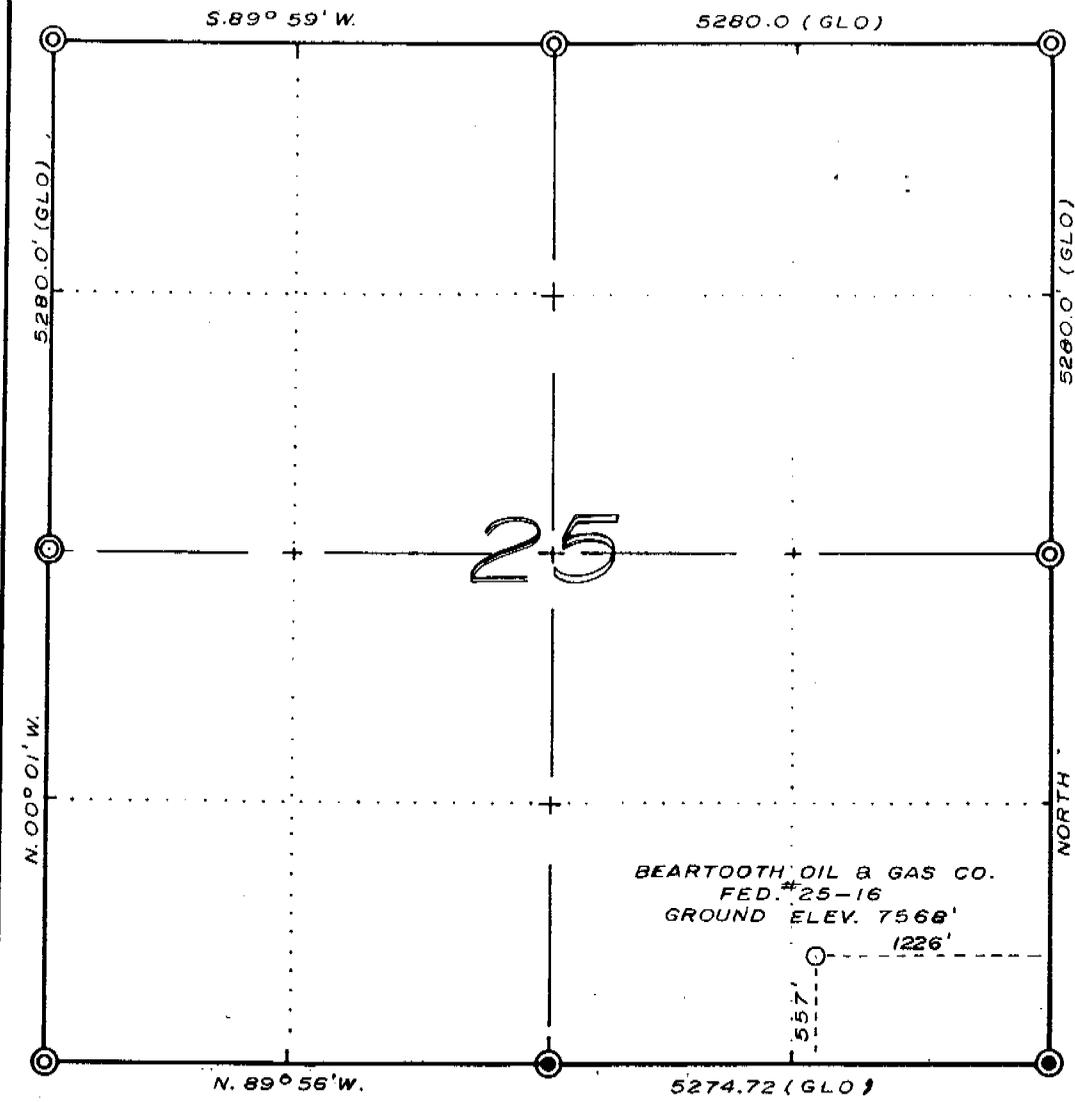
10. Any abnormal pressures or temperatures anticipated. No poisonous gas is anticipated.

11. Anticipated spud date is August 1, 1984.

12. Survey plats are attached.

The gas is not dedicated.

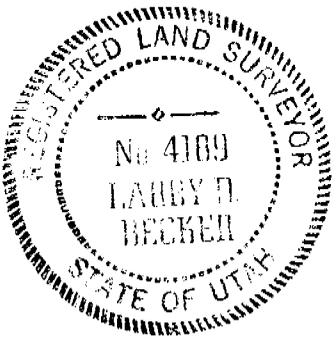
SEC. 25, T. 15 S., R. 22 E. OF THE S.L.M.



- LEGEND**
- ⊙ STANDARD LOCATION OF GLO SECTION CORNERS
 - GLO CORNERS FOUND
 - WELL LOCATION STAKED.
- REFERENCE DOCUMENTS**
- 1922 GLO PLAT
 - CEDAR CAMP CANYON QUADRANGLE, USGS

BEARTOOTH OIL & GAS CO.
 FED. #25-16
 GROUND ELEV. 7568'
 1226'

THIS WELL LOCATION PLAT WAS PREPARED FOR BEARTOOTH OIL & GAS CO.
 TO LOCATE THE FED. #25-16, 557' F.S.L. &
1226' F.E.L. IN THE S.E. 1/4 S.E. 1/4, OF SECTION 25, T. 15 S., R. 22 E.
 OF THE S.L.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

SURVEYED	5-22	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO 81501 (303) 245 - 7221	SCALE 1"=1000'
DRAWN	5-29			JOB NO
CHECKED				SHEET OF

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

FEDERAL NO. 25-16
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 25-T15S-R22E
Uintah 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 No. 1
- B. Route and distance from nearest town or locatable reference point to where well access route leaves main road: This location is about 40 miles northwest of Mack, CO. It is reached by going west of Mack on Old Hwy 6 & 50 until you are 3.2 miles into Utah, turn right and go 27.35 miles up Hay Canyon to the top of Hay Canyon Hill, turn right and go 0.3 miles, turn left and go 1 mile, turn left and go 3.1 miles out Wire Fence Point to the beginning of the 0.4 miles of new construction.
- C. Access road(s) to location color-coded or labeled: _____
The existing access is colored green on the Vicinity Map and on the Access-Topo Map. (Map No. 1 and No. 3)
- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.): N/A
- 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: Most of the existing road is County road. Occasional blading is one by producing and pipeline companies in the area. Beartooth will conduct maintenance blading on the access road.

2. Planned Access Roads - See Map No. 1

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

- (1) Width & Disturbance: The 0.4 mile of new construction will be built with an 18' driving surface. The disturbed width will vary from 35-60 feet depending on topography. All new construction is within an old burn area.
- (2) Maximum grades: The maximum grade is 8%
- (3) Turnouts: Turnouts will be constructed so that they are intervisible.
- (4) Drainage design: Natural drainage; road will follow contour of the land. The road will be ditched and crowned across the flats and insloped 2% on the cut slope-hillsides.
- (5) Location and size of culverts and brief description of any major cuts and fills: Water will be drained across the road via water dips. No culverts are planned.
- (6) Surfacing material: Native material only; no material will be brought in.
- (7) Necessary gates, cattleguards, or fence cuts: No cattleguards are planned.
- (8) New or reconstructed roads are to be center-line flagged at time of location staking: The road is 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: One
- (3) Temporarily abandoned wells: None
- (4) Disposal wells: None
- (5) Drilling wells: None
- (6) Producing wells: Three
- (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 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

- 1. Tank batteries: None
- 2. Production facilities: Separator and meter run at gas wells, shown on Well Map (Map No. 2), in Sections 26 & 36-T15S-R22E and Section 31-T15S-R23E.
- (3) Oil gathering lines: None
- (4) Gas gathering lines: See Well Map No. 2 for location of Northwest Pipeline gathering system. All lines are buried, except for legoffs in and out of canyons
- (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:

- (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. See Plat No. 4.
- (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.

- 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: Water for this well has been purchased from Mr. Bert Delambert. The pick up point is in Section 6-T16S-R23E.
- 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:

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.
- (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 Manager. 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 a 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
The maximum cut is 13.3 feet.
- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles: See Plats Nos. 2 & 3
The stand of dead trees will be stockpiled below the north side of the location. The topsoil will be stockpiled above the cutslope on the south side of the pad area.
- (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. The blooie pit will be constructed so that all liquid will run to the cut portion of the reserve pit.

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 cleanup: 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: All new construction is within an old forest fire burn. No new large trees exist. Vegetation is mainly brush and mixed grasses. The soils are shallow and rocky.
- (2) Other surface use activities and surface ownership of all involved lands: Livestock grazing is the noticeable other land use.
All construction is on Public land.
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites: The nearest occupied dwelling and live water is in Main canyon about 1/2 miles east of the wellsite.
A cultural resource survey has been completed and the report is being filed with BLM-Vernal.

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 state of facts 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.

June 4, 1984
 Date

POOR COPY

WELL CONTROL PLAN

1. Surface Casing: 9-5/8" O.D., 32.3#/ft., Grade H-40, Short T&C, set at 300' or deeper, cemented with pump and plug method back of the surface or bottom of cellar.
2. Casinghead Flange: 9-5/8" x 10" -900 series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: 7" 23# K-55, set at 5030 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" 3000 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 8600 or a gradient of .23 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.

BEARTOOTH OIL & GAS COMPANY

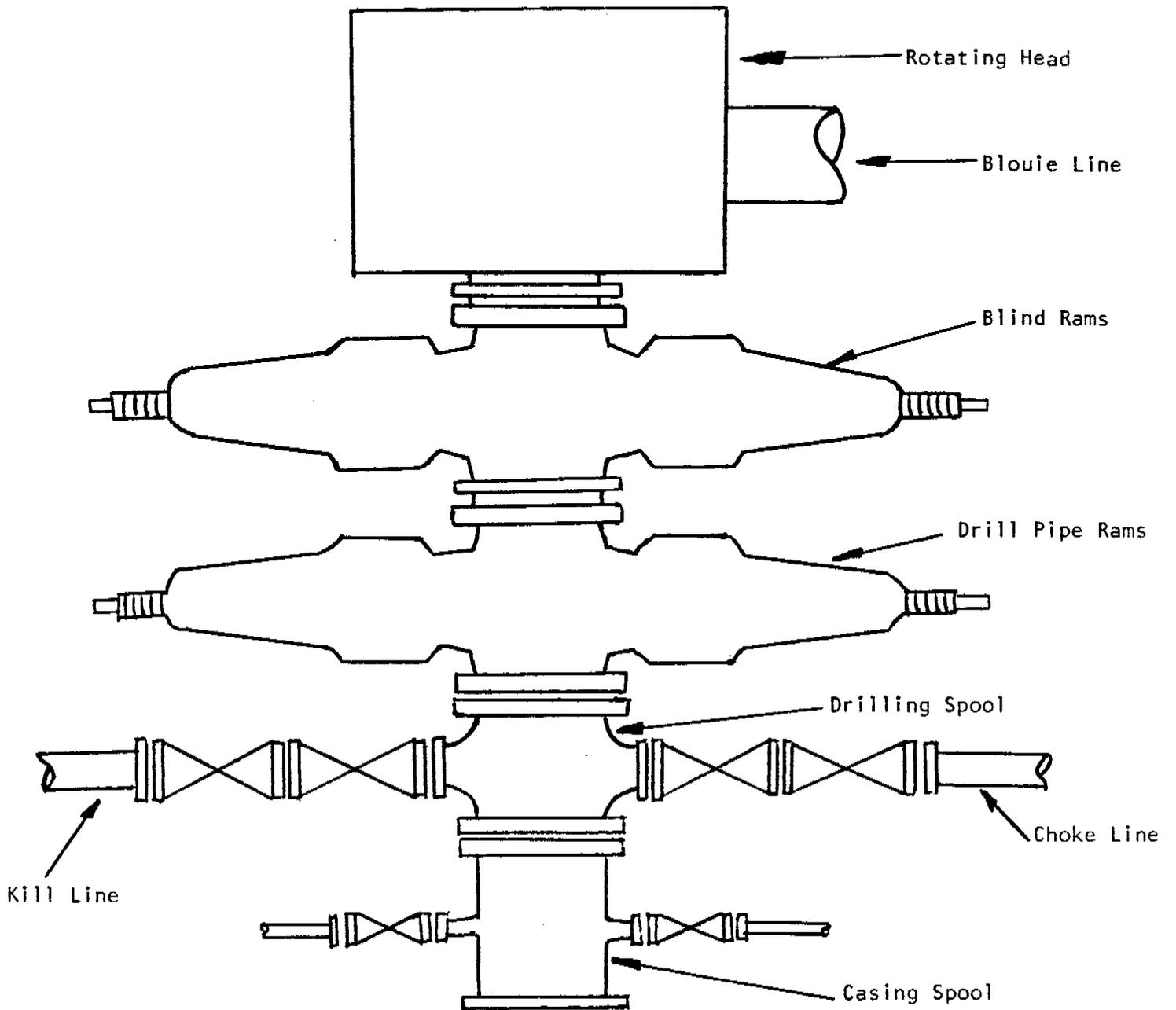
By: James G. Routson
James G. Routson, Petroleum Engineer

SCHEMATIC OF BOP STACK

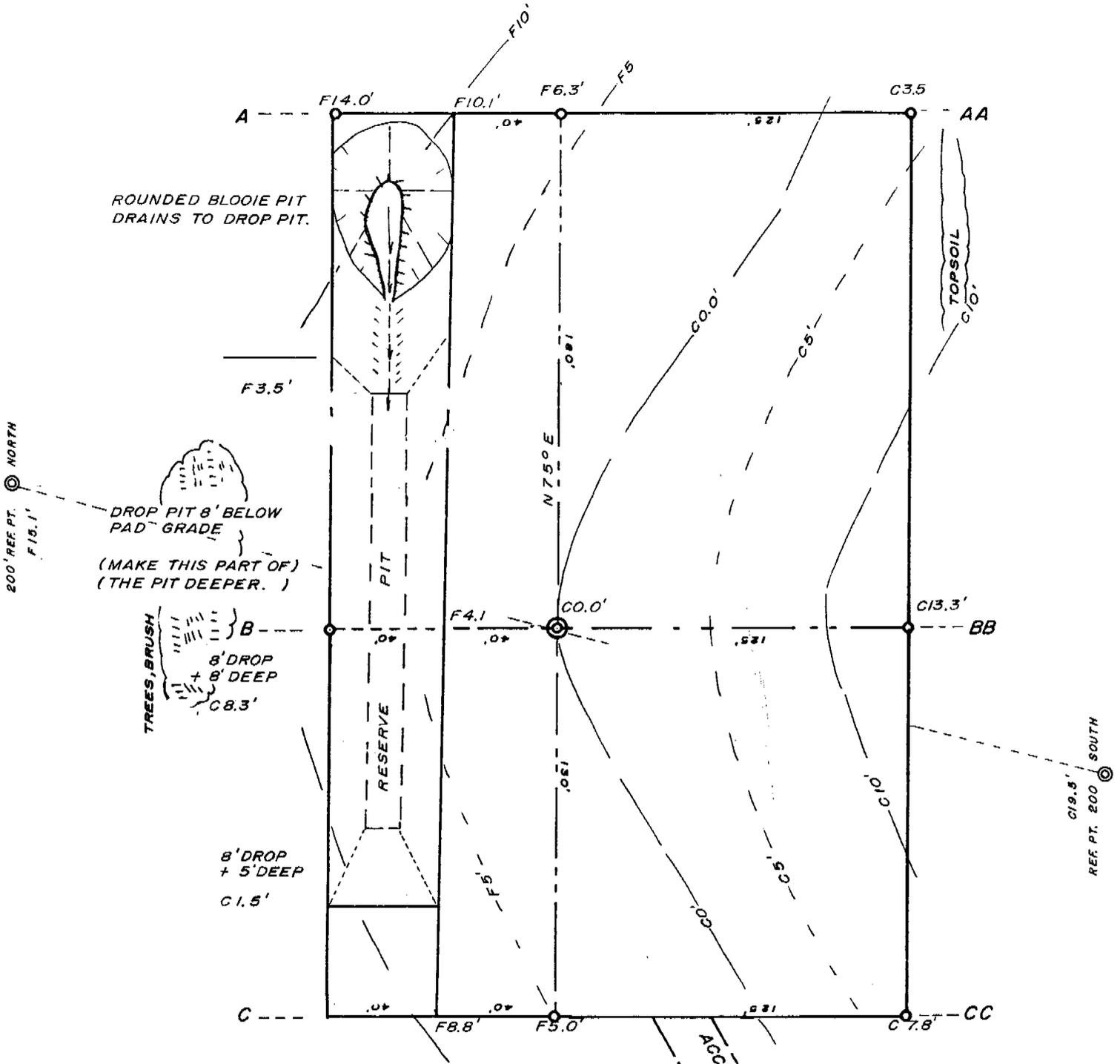
Federal No. 25-16

Air drilled wells using 900 series wellhead equipment.

Interval from 300' to total depth.



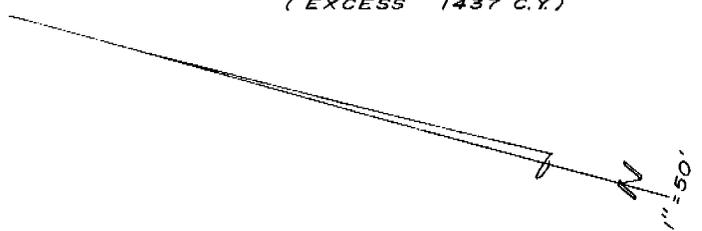
PLAT No 2
PIT & PAD LAYOUT



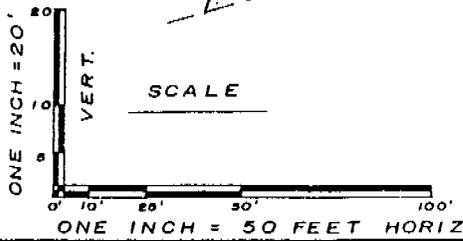
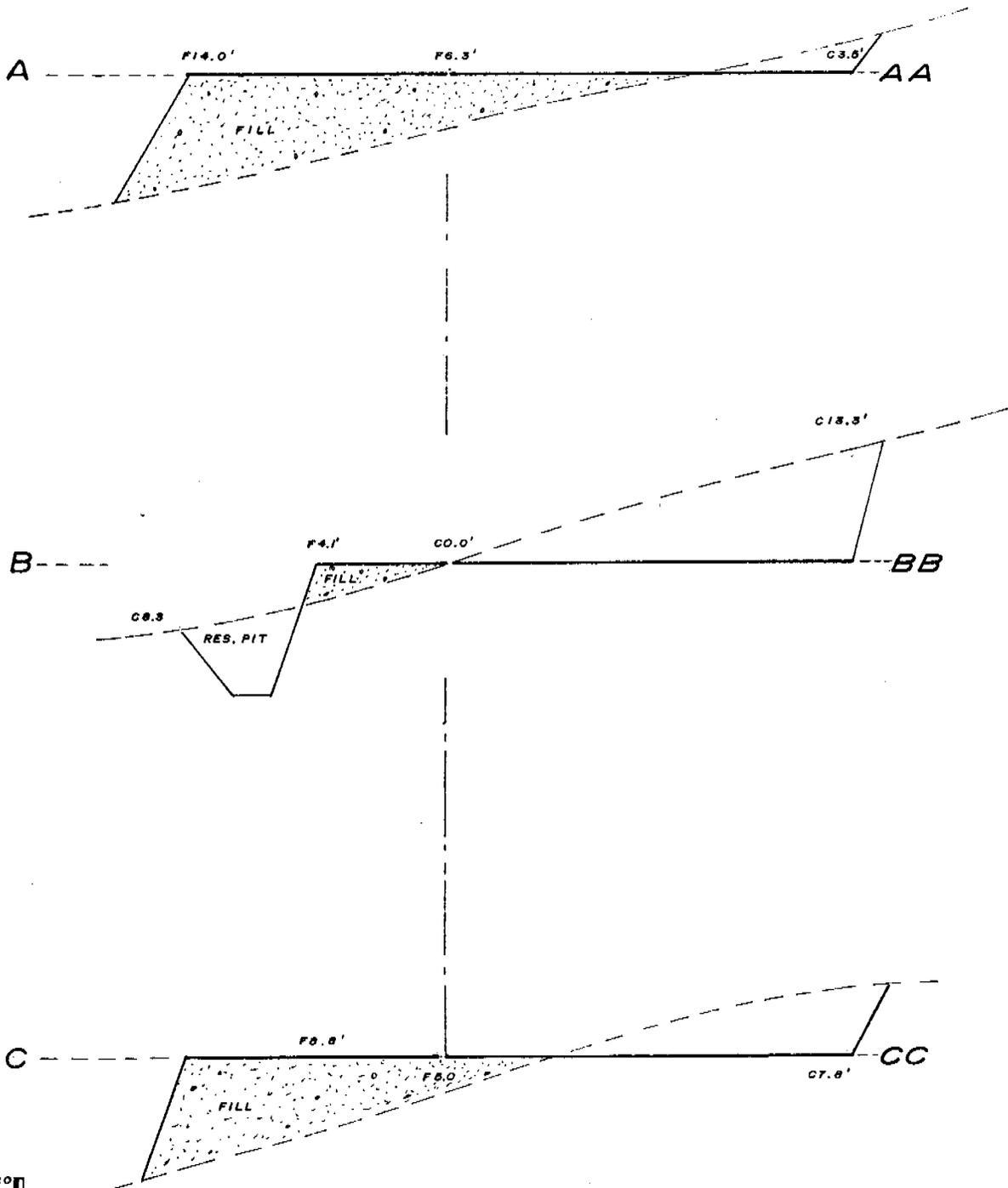
ESTIMATED QUANTITIES OF MATERIAL				
ITEM	CUT	FILL	T.SOIL	TOTAL
PAD	5420	2986	1177	
PIT	650	470		
	6070	3456	1177	

(EXCESS 1437 C.Y.)

BEARTOOTH OIL & GAS CO.
FEDERAL # 25-16
PIT & PAD LAYOUT

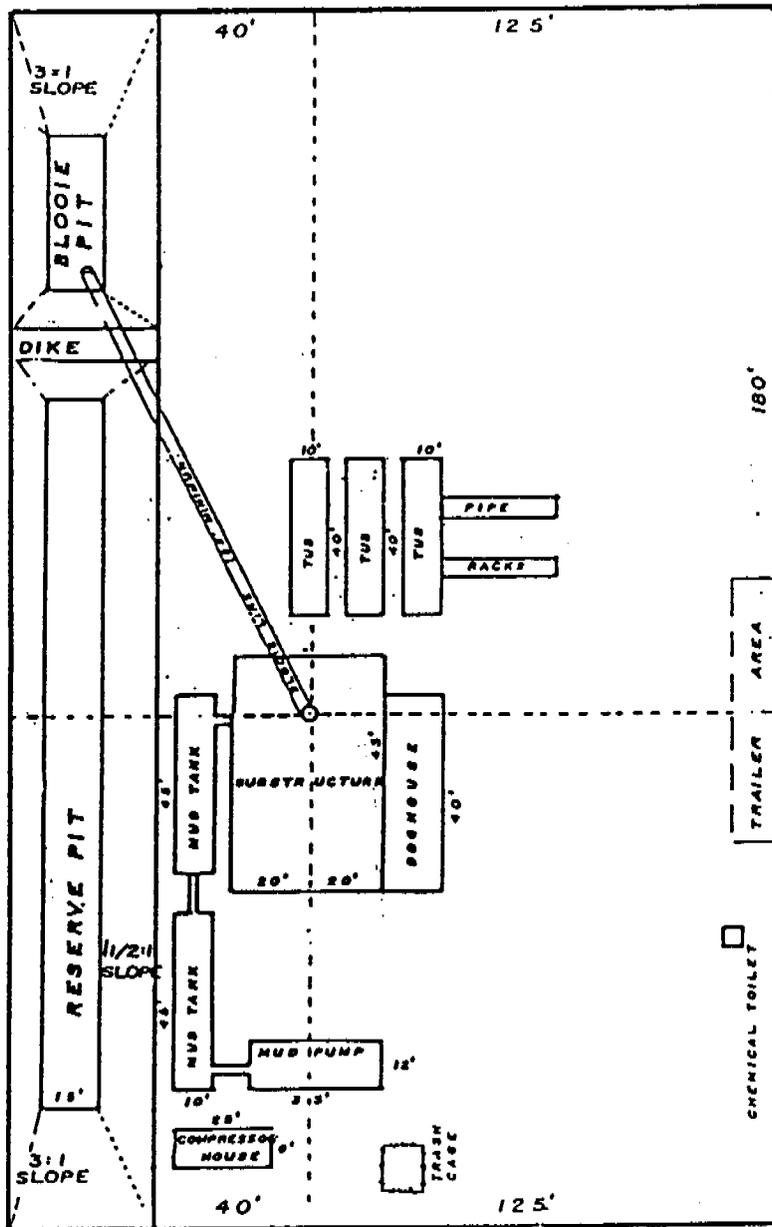


CROSS-SECTIONS
OF PIT & PAD

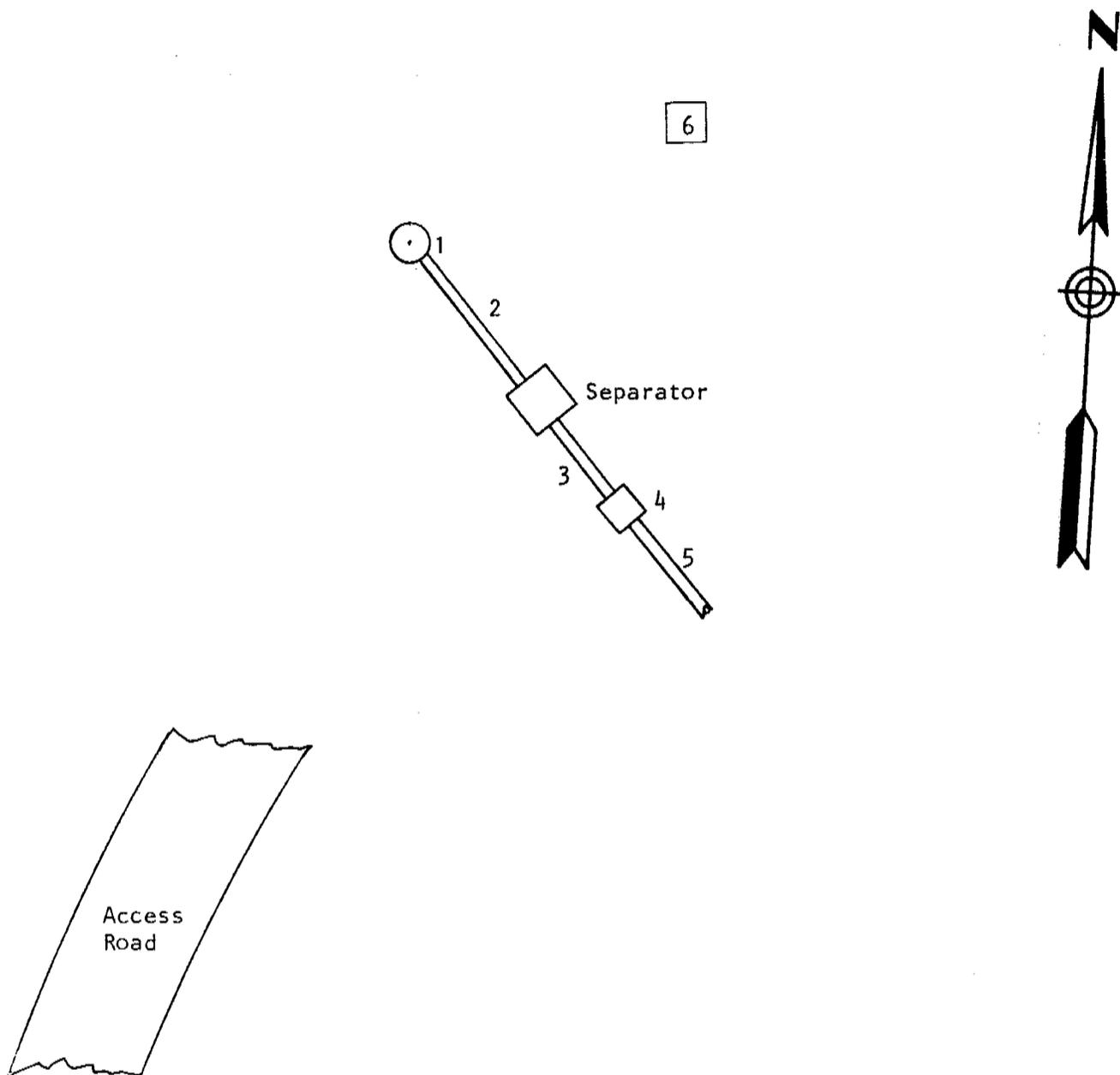


BEARTOOTH OIL & GAS CO.
FEDERAL # 25-16

1"=50'

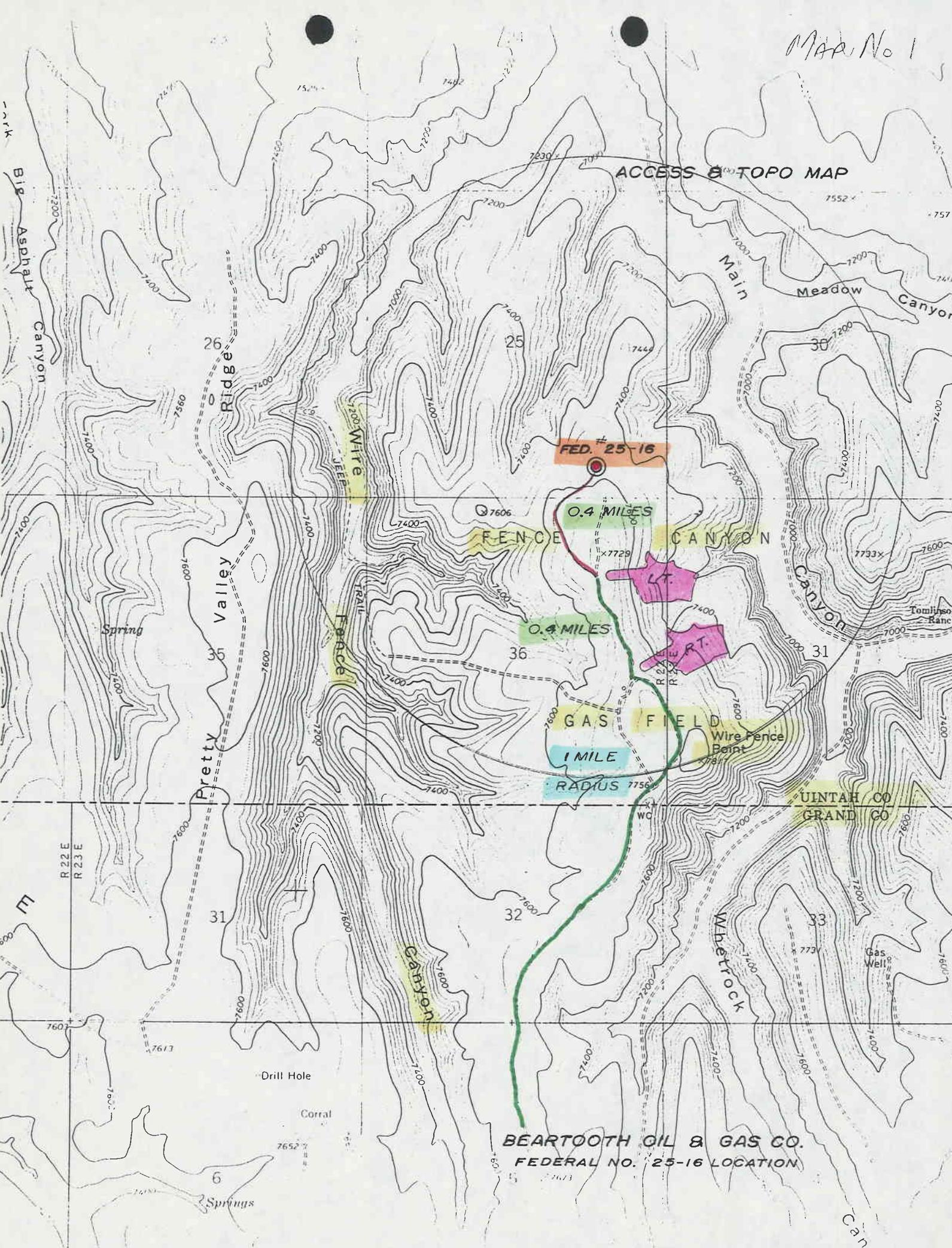


BEARTOOTH OIL & GAS CO.
FED # 25-16



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 2" run, 500 psi static rating, 200" of water differential rating.
5. Line between meter run and NW Pipeline gathering system not yet designed.
6. Pit, if necessary, will be 8' x 8', enclosed by dikes and fenced.

MAP No 1



BEARTOOTH OIL & GAS CO.
 FEDERAL NO. 25-16 LOCATION

R22E

WELL MAP - MAP No 2

R23E

T 15 S

T 15 S

T 15 1/2 S

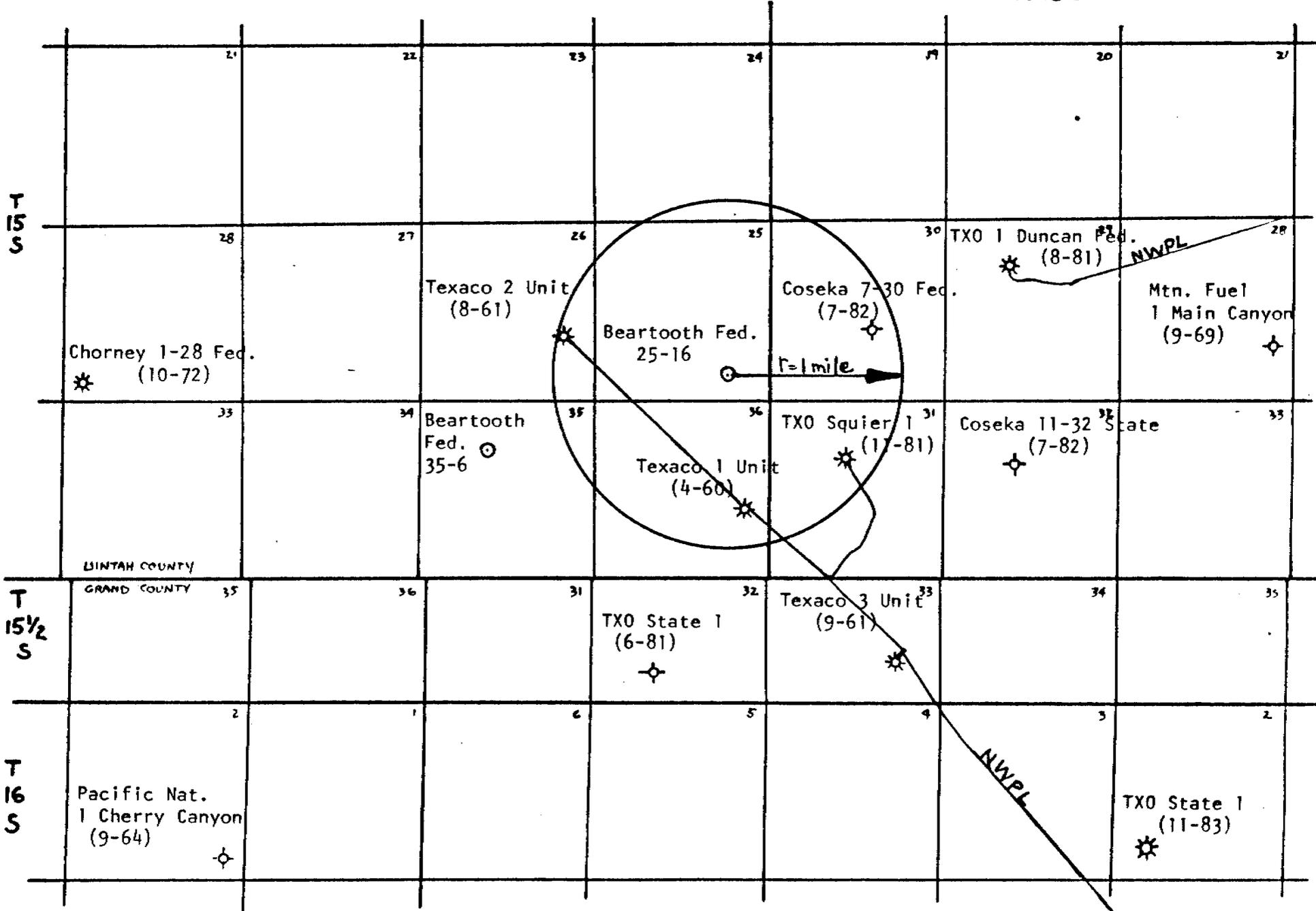
T 15 1/2 S

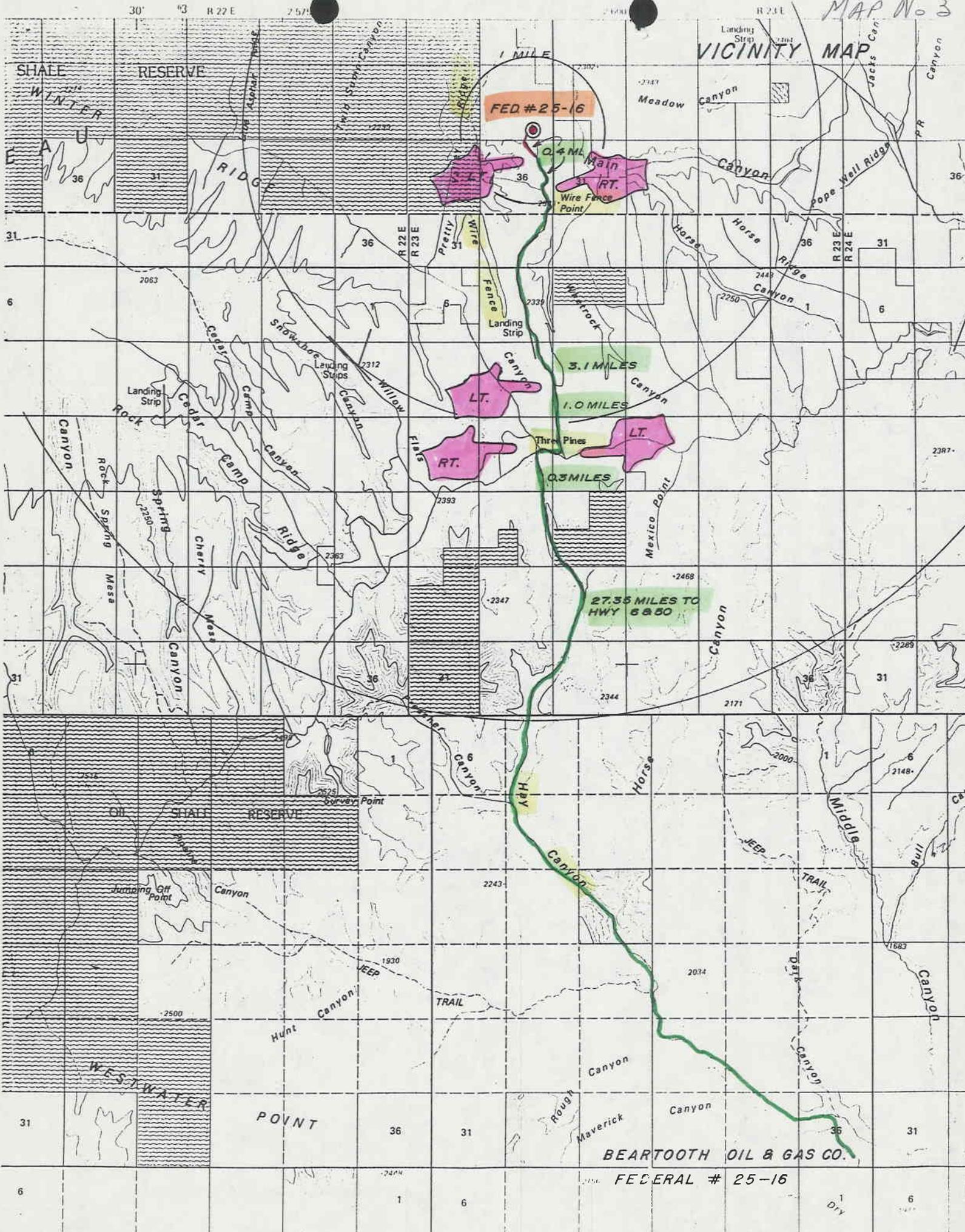
T 16 S

T 16 S

R22E

R23E





BEAR TOOTH OIL & GAS CO.
FEDERAL # 25-16

1 Dry

OPERATOR Bearwith Oil & Gas Co. DATE 6-12-84

WELL NAME Federal #25-16

SEC SESE 25 T 155 R 22E COUNTY Uental

43-047-31496
API NUMBER

Full
TYPE OF LEASE

POSTING CHECK OFF:

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

PROCESSING COMMENTS:

Board Order - 149-24 5/24/82 ✓
Need water permit

APPROVAL LETTER:

SPACING: A-3 _____ UNIT c-3-a 149-24 5/24/84 CAUSE NO. & DATE

c-3-b c-3-c

SPECIAL LANGUAGE:

1- Water

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

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER 149-24

UNIT _____

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

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

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

June 14, 1984

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

RE: Well No. Federal 25-16
SESE Sec. 25, T. 15S, R. 22E
557' FSL, 1226' FEL
Uintah County, Utah

Gentlemen:

Approval to drill the above referenced gas well is hereby granted in accordance with Order of Cause No. 149-24 dated May 24, 1984 subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-S-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify R. J. Firth, Associate Director, Telephone (801) 533-5771 (Office), 571-6068 (Home).
4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31496.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

RJF/as
cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIZONE

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 1226' FEL 557' FSL
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 40 Miles Northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 557

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7568 GL, 7580 KB

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	300'	150 sacks Class "G" - to surface
8-3/4"	7" New 23# & 20# K-55 STC		5030'	150 sacks 50-50 poxmix
6-1/4"	4-1/2" New	11.6# N-80 LTC	8980'	175 sacks RFC

- Surface formation is the Green River.
- Anticipated geologic markers are: Wasatch 1116', Mesaverde 2150', Mancos 4480', Castlegate 4720', Frontier 8095', Dakota 8450', Morrison 8614'.
- Gas is anticipated in the Dakota & Morrison. No oil or other minerals are anticipated. Possible water sands are expected in the Mesaverde and Wasatch.
- Proposed casing program: See Item No. 23 above.
- Pressure control equipment: See attached well control plan and schematic 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. If excessive water is encountered, the intermediate hole will be finished with chem-gel mud.

(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 June 4, 1984
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY [Signature] TITLE DISTRICT MANAGER DATE 7/3/84
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

AT-0180-4-M-218



RECEIVED
 JUL 5 1984
 DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
 U-44433
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 Federal
 9. WELL NO.
 25-16
 10. FIELD AND POOL, OR WILDCAT
 Fence Canyon
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 SE 1/4 Sec. 25-T15S-R22E
 12. COUNTY OR PARISH
 Uintah
 13. STATE
 Utah

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Beartooth Oil and Gas Company Well No. 25-16

Location Sec. 25 T15S R22E Lease No. U-44433

Onsite Inspection Date 6-12-84

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

In accordance with API Bulletin RP 53, 3,000 psi pressure control stacks shall be equipped with an annular, bag-type preventer. Prior to drilling out the surface casing shoe, the ram-type preventers and the annular-type preventer shall be pressure tested to 1,500 psi.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Anticipated cement tops will be reported as to depth, not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

The cementing program shall adequately protect all fresh water encountered in the drilling operations.

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

6. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

B. THIRTEEN POINT SURFACE USE PLAN

7. Planned Access Roads

About .5 mile of new construction would be built as indicated in the APD. Another .4 mile of jeep trail will require some upgrading.

All travel will be confined to existing access road rights-of-way.

8. Location of Tank Batteries and Production Facilities

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5 State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

No tank battery is anticipated for this location. Gas is anticipated, but oil and other fluid hydrocarbons are not expected to be present in significant quantities.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and anchored securely downstream of the meter. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

9. Source of Construction Material

Road surfacing and pad construction material will be obtained from native materials only, no new material will be brought in.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

10. Methods of Handling Waste Disposal

The reserve pit will not be lined unless porous gravel soils with seepage problems are encountered when the pits are dug.

Burning will not be allowed. All trash must be contained and disposed of by use of a trash cage to collect the trash, then the trash is to be hauled to a suitable disposal site.

Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

11. Ancillary Facilities

The present airstrip in Sections 5 and 8 of T16S, R23E would be upgraded to allow access during drilling operations. This would be done for safety reasons and possible spare parts delivery needs.

12. Well Site Layout

The reserve pit and pad will be located on the north side of the location.

The stockpiled topsoil will be stored at the southeast corner of the location.

Access to the well pad will be from the west side of the location.

Reserve pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire.

13. Plans for Restoration of Surface

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

If the wellsite is to be abandoned, then all disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

The BLM will be consulted for a suitable seed mixture for the re-seeding of the location.

Prior to reseeded, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BIA. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

14. Other Information

The location is in an area where winter operating restrictions are imposed from November 1 to April 30. Construction and drilling operations are not allowed from November 1 to April 30 without written authorization from the Resource Area Manager, Bookcliffs Resource Area for an exception. This limitation does not apply to maintenance of existing producing wells.

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance will be required before any construction begins. If any cultural resources are found during construction, all work will stop and the AO will be notified.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

DIVISION OF OIL, GAS AND MINING

43-047-31496

SPUDDING INFORMATION

NAME OF COMPANY: BEARTOOTH OIL & GAS

WELL NAME: FEDERAL 25-16

SECTION SESE 25 TOWNSHIP 15S RANGE 22E COUNTY UINTAH

DRILLING CONTRACTOR VECO

RIG # 6

SPUDDED: DATE 10-8-84

TIME 7:00 PM

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY GRACE

TELEPHONE # 406 259-2451

DATE 10-9-84 SIGNED JRB

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
U-44433

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or to re-work a well in a Federal or State reserved reservoir.
Use "APPLICATION FOR PERMIT" for standard wells.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Beartooth Oil & Gas Company		8. FARM OR LEASE NAME Federal	
3. ADDRESS OF OPERATOR P. O. Box 2564, Billings, Montana		9. WELL NO. 25-16	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1226' FEL, 557' FSL		10. FIELD AND POOL, OR WILDCAT Fence Canyon	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE½SE½ Sec. 25-T15S-R22E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7568' GL, 7580' KB		12. COUNTY OR PARISH Uintah	13. STATE Utah

OCT 15 1984

DIVISION OF OIL
GAS MINING

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

Well spudded at 7:00 PM 10/8/84 with Veco Drilling Company Rig No. 6.

Drilled 12-1/4" hole to 320'. Ran 8 joints of 9-5/8", 36#, J-55 casing to 316' KB. Cemented with 150 sacks Class "G", 3% CaCl₂, 1/4# celloflake. Good cement to surface. Plug down at 3:00 PM 10/9/84.

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

SIGNED Grace E. Brown TITLE Drilling Department DATE 10/11/84
 Grace E. Brown

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-44433

2

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS RECEIVED

(Do not use this form for proposals to drill or to deepen or plug back to a different formation.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER NOV 01 1984

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Beartooth Oil & Gas Company

8. FARM OR LEASE NAME

Federal

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

9. WELL NO.

25-16

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

10. FIELD AND POOL, OR WILDCAT

Fence Canyon

1226' FEL, 557' FSL

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

SE1/4 SE1/4 Sec. 25-T15S-R22E

14. PERMIT NO.

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

7568' GL, 7580' KB

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

Status Report

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

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

Ran 7" casing to 5006' and cemented with 150 sacks, Class "G", 2% CaCl₂, 1/4#/sx celloflake.

Total Depth 8966'.

Ran 226 joints of 4 1/2", 11.6#, N-80 casing to 8910' KB. Cemented with 175 sacks 10-0 RFC and 1000 gallons mud flush. Plug down at 3:00 AM 10-30-84. Rig released at 8:00 AM 10/30/84.

Waiting on completion tools.

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

SIGNED

Grace E. Brown

TITLE

Drilling Department

DATE

October 30, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

RECEIVED
NOV 30 1984

DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Federal No. 25-16

Operator: Beartooth Oil & Gas Company Address: P. O. Box 2564, Billings, MT 59103

Contractor: Veco Drilling Company Address: Box 1705, Grand Junction, CO 81502

Location SE 1/4 SE 1/4; Sec. 25 T. 15 ~~N~~_S R. 22 ~~E~~_W; Uintah County.

Water Sands:

<u>Depth:</u>		<u>Volume:</u>	<u>Quality:</u>
From-	To-	Flow Rate or Head	Fresh or Salty
1. 893'	4685'	Not measured	Not determined
2.	(Well was air drilled to 893' where damp sands were encountered, then mud		
3.	drilled. None of the sand had enough water to flow (9 ppg mud in hole).		
4.			
5.			

(Continue on Reverse Side if Necessary)

Formation Tops:

Wasatch	1116'	Frontier	8095'
Mesaverde	2150'	Dakota	8454'
Mancos	4480'	Morrison	8612'
Castlegate	4720'		

Remarks:

- 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

16

5. LEASE DESIGNATION AND SERIAL NO.

U-44433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FORM OR LEASE NAME

Federal

9. WELL NO.

25-16

10. FIELD AND POOL, OR WILDCAT

Fence Canyon

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

SE $\frac{1}{2}$ SE $\frac{1}{2}$ Sec. 25-T15S-R22E

12. COUNTY OR PARISH
Utah

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 DIFF. RESVR. Other _____

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 1226' FEL, 557' FSL

At top prod. interval reported below same

At total depth same

14. PERMIT NO. 43-047-31496
DATE ISSUED 6/14/84

15. DATE SPUNDED 10/8/84
16. DATE T.D. REACHED 10/27/84
17. DATE COMPL. (Ready to prod.) 11/19/84
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7568' GL, 7580' KB
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 8966'
21. PLUG BACK T.D., MD & TVD 8805'
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)*
8731-8733 - Morrison
8560-8604 - Dakota
25. WAS DIRECTIONAL SURVEY MADE
no

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL, CDL/CNS
27. WAS WELL CORED
no

29. 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# J-55	316' KB	12-1/4"	150 sacks Class "G"	
7"	23# & 20#	5006' KB	8-3/4"	150 sacks Class "G"	
4-1/2"	11.6# N-80	8910' KB	6-1/4"	175 sacks RFC	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	8748'	-

31. PERFORATION RECORD (Interval, size and number)
8560, 8564, 8573, 8576, 8593, 8598,
8604 - 1 shot/ft., .31" dia.
8731 and 8733 - 1 shot/ft., .31" dia.
(9 holes total)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) 8560-8733'
AMOUNT AND KIND OF MATERIAL USED 600 gal. MR acid; foam fract with 504 bbls 5% HCl, 2.5 MMSCF N₂, 20,000# 100 mesh, 70,000# 20-40 sand

33.* PRODUCTION

DATE FIRST PRODUCTION 11/19/84
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing
WELL STATUS (Producing or shut-in) shut-in

DATE OF TEST 11/19/84
HOURS TESTED 2 hrs
CHOKE SIZE 3/4"
PROD'N. FOR TEST PERIOD
OIL—BBL. GAS—MCF. 215
WATER—BBL. GAS-OIL RATIO

FLOW. TUBING PRESS. 195 psi
CASING PRESSURE 630 psi
CALCULATED 24-HOUR RATE
OIL—BBL. GAS—MCF. 2583
WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
to be sold
TEST WITNESSED BY
Ralph Snow

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 TITLE Petroleum Engineer DATE 11/26/84

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

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, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			NO CORES OR TESTS	Dakota Silt	8371'	
				Dakota Sand	8454'	
				Morrison	8612'	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE (Other instructions reverse side)

Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985

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 "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL [] GAS WELL [X] OTHER []
2. NAME OF OPERATOR: Beartooth Oil & Gas Company
3. ADDRESS OF OPERATOR: PO Box 2564, Billings, Montana 59103
4. LOCATION OF WELL: 1226' FEL, 557' FSL
14. PERMIT NO.: 43-047-31496
15. ELEVATIONS: 7568' GL, 7580' KB

RECEIVED

NOV 26 1985

Department of OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-44433
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME: Federal
9. WELL NO.: 25-16
10. FIELD AND POOL, OR WILDCAT: Fence Canyon
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE 1/4 SE 1/4 Sec 25-T15S-R22E
12. COUNTY OR PARISH: Uintah
13. STATE: UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF [] PULL OR ALTER CASING []
FRACTURE TREAT [] MULTIPLE COMPLETE []
SHOOT OR ACIDIZE [] ABANDON* []
REPAIR WELL [] CHANGE PLANS []
(Other) Status Report [X]
SUBSEQUENT REPORT OF: WATER SHUT-OFF [] REPAIRING WELL []
FRACTURE TREATMENT [] ALTERING CASING []
SHOOTING OR ACIDIZING [] ABANDONMENT* []
(Other) []
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

Date of First Production: 2:00 p.m., 10/29/85.



18. I hereby certify that the foregoing is true and correct
SIGNED: James G. Routson TITLE: Consulting Petro. Engr. DATE: 10/30/85
(This space for Federal or State office use)

APPROVED BY: NOTED TITLE: DATE:

MS-1 mms

*See Instructions on Reverse Side

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DIV. OF OIL, GAS & MINING

8. Lease Designation and Serial Number:
U-44433
9. If Indian, Allocated or Tribal Name: 17 15 10
7. Unit Agreement Name:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL GAS OTHER:
2. Name of Operator: Beartooth Oil & Gas Company
3. Address and Telephone Number: P. O. Box 2564, Billings, Montana 59103 (406) 259-2451
4. Location of Well SE SE
Footages: 1226' FEL 557' FSL
OO, Sec., T., R., M.: SE SE Sec 25, T15S, R22E

8. Well Name and Number: Federal 25-16
9. API Well Number: 43-047-31496
10. Field and Pool, or Wildcat: Fence Canyon
County: UINTAH
State: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other Resume Production
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion _____
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well resumed production September 1, 1995, after a lengthy/shut-in period.

13. BOBBIE OSTWALD, PRODUCTION
Name & Signature: Bobbie Ostwald Title: _____ Date: 10-20-95

(This space for State use only)