

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.

ML-27447

6. If Indian, Allottee or Tribe Name

-

7. Unit Agreement Name

-

8. Farm or Lease Name

State

9. Well No.

16-7

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 16-T17S-R23E, SLM

12. County or Parrish 13. State

Grand Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL DEEPEN PLUG BACK

b. Type of Well

Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator

Beartooth Oil & Gas Company

3. Address of Operator

P. O. Box 1834, Billings, Montana 59103

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 1841' ~~FAL~~, 2136' FEL SW NE

At proposed prod. zone Same

14. Distance in miles and direction from nearest town or post office*

Approx. 40 miles west of Mack, Colorado

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

1841' from lse line
504' f/spacing unit line

16. No. of acres in lease

1920

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

6250' Morrison

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5907' GL 5918' KB

22. Approx. date work will start*

July 15, 1980

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#	200'	150 sx
8-3/4"	7"	20#	2150'	100 sx
6-1/4"	4-1/2"	10.5# & 11.6#	6250'	175 sx

Estimated tops: Mesaverde - surface; Mancos 1660', Castlegate 1950', Dakota 5600', Morrison 5760'.

Drilling Program: Mud drill surface hole and intermediate hole to 2150'. Air drill 2150' to total depth. Run porosity and resistivity logs. Monitor air returns and test all gas shows. Run casing if productive. BOP's will be 10", 900 series, blind and pipe rams, Grant rotating head above BOP's.

Completion Program: Perforate and acidize productive zones. Foam fracture with 100,000# sand in 75 quality foam if necessary.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 6-2-80

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back give data on present production 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: 5/27/80

(This space for Federal or State office use)

Permit No. Approval Date

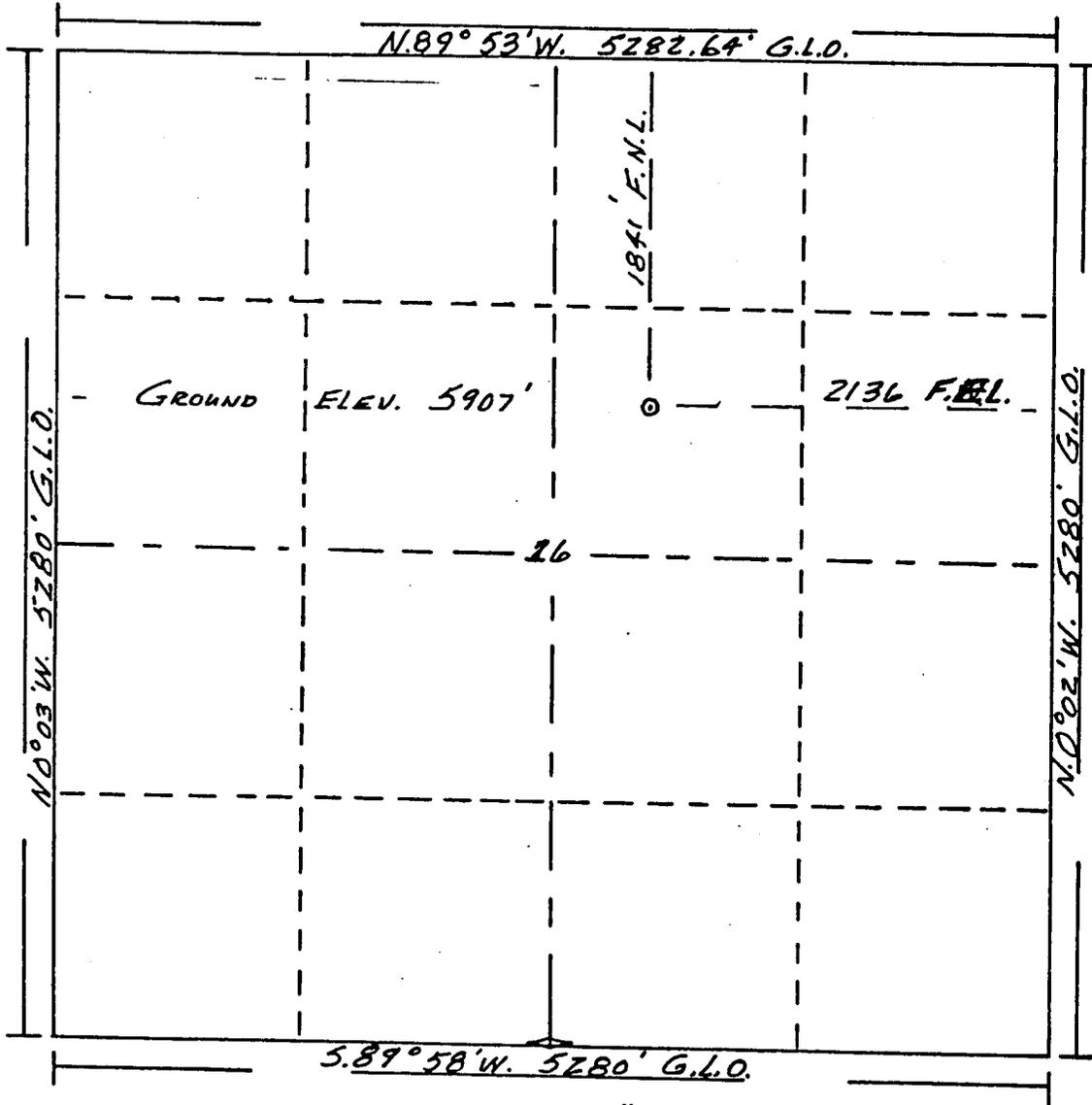
Approved by Title

Conditions of approval, if any:





R. 23 E.



T.
17
S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from *JIM ROUISON*
 for *BEARTOOTH OIL & GAS COMPANY*
 determined the location of *STATE No. 16-7*
 to be *1841' F.N.L. & 2136' F.E.L.* of Section *16* Township *17 S.*
Range 23 E. OF THE SALT LAKE Meridian
GRAND County, UTAH

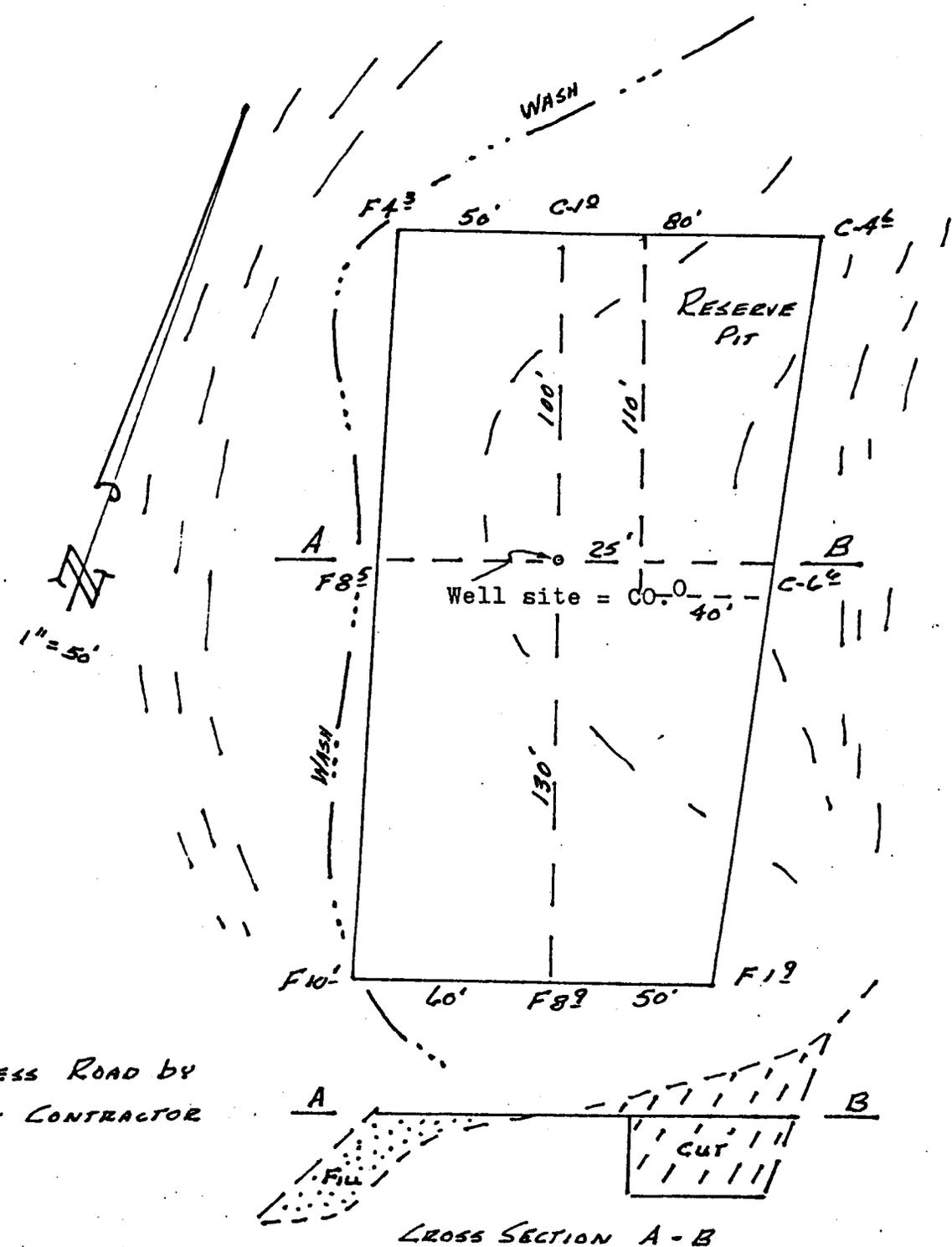
I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
STATE No. 16-7

Date: 5-12-80

[Signature]
 Licensed Land Surveyor No. *4189*
 State of *UTAH*

TOPOGRAPHIC MAP

BEAR TOOTH OIL & GAS CO.
LOCATION: STATE No 16-7
SW 1/4, NE 1/4, SEC 16, T. 17S, R. 23E.
GRAND COUNTY, UTAH
DRILLPAD LAYOUT



ACCESS ROAD BY
DIRT CONTRACTOR

CROSS SECTION A - B

SCALE
HZ. 1" = 50'
VT. 1" = 20'

by: GORDON HARWARD
Powers Elevation Company, Inc.
GRAND JUNCTION, COLO.
5-12-80

406-
259-2451

**** FILE NOTATIONS ****

DATE: May 30, 1980
OPERATOR: Beartooth Oil & Gas Company
WELL NO: State # 16-7
Location: Sec. 16 T. 17S R. 23E County: Grand

File Prepared: Entered on N.I.D:
Card Indexed: Completion Sheet:

API Number 43-019-30648

CHECKED BY:

Petroleum Engineer: M.J. Minder 6-2-80

Director: _____

Administrative Aide: contacted Beartooth O&G 5/30/80 -
bond being submitted

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 State Plotted on Map

Approval Letter Written

Hot Line P.I.

#1
Contingent
upon bond

June 6, 1980

Beartooth Oil & Gas Co.
P.O. Box 1834
Billings, Montana 59103

Re: Well No. State #16-7, Sec. 16, T. 17S, R. 23E., Grand County, Utah
Well No. Three Pines State #36-9, Sec. 36, T. 16S, R. 22E., Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas wells is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. However, this approval is contingent upon this office receiving the required bond.

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

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

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 numbers assigned to these wells are State #16-7: 43-019-30648;
Three Pines State #36-9: 43-019-30649.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/jt

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(0 instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. ML-27447
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Plugged and abandoned		7. UNIT AGREEMENT NAME -
2. NAME OF OPERATOR Beartooth Oil & Gas Company		8. FARM OR LEASE NAME State
3. ADDRESS OF OPERATOR P. O. Box 2564, Billings, Montana 59103		9. WELL NO. 16-7
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1841' FNL, 2136' FEL		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 16-T17S-R23E, SLM
14. PERMIT NO. 43-019-30648	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5907' GL, 5918' KB	12. COUNTY OR PARISH 13. STATE Grand 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 <input type="checkbox"/>	PULL 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 checked="" 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) <input type="checkbox"/>		<small>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>	

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.)*

Verbal approval to plug received from Mike Minder on 12/15/80 as follows:

- Plug No. 1 - 5775-5600' - 50 sacks
- Plug No. 2 - 3150-3025' - 25 sacks
- Plug No. 3 - 2000-1750' - 50 sacks
- Plug No. 4 - 200-Surf - 40 sacks

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

SIGNED Robert D. Ballantyne TITLE Drilling Supervisor DATE 12/22/80
Robert D. Ballantyne
(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

5. LEASE DESIGNATION AND SERIAL NO.
ML-27447

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
State

9. WELL NO.
16-7

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 16-T17S-R23E, SLM

12. COUNTY OR PARISH
Grand

13. STATE
Utah

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 OTHER Plugged and abandoned

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.* See also space 17 below.)
At surface
1841' FNL, 2136' FEL

14. PERMIT NO.
43-019-30648

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
5907' GL, 5918' KB

16. 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"/>	PULL 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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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 was plugged and abandoned on 12/16/80 as follows:

- Plug No. 1 - 5775-5600' - 50 sacks
- Plug No. 2 - 3150-3025' - 25 sacks
- Plug No. 3 - 2000-1750' - 50 sacks
- Plug No. 4 - 200-Surf - 40 sacks

Dry hole marker will be installed, and location will be backfilled and recontoured in the spring of 1981.

RECEIVED

DEC 24 1980

DIVISION OF
OIL, GAS & MINING

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

SIGNED Robert D. Ballantyne TITLE Drilling Supervisor DATE December 22, 1980

Robert D. Ballantyne
(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

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 1841' FNL, 2136' FEL
At top prod. interval reported below
At total depth same

14. PERMIT NO. 43-019-30648
DATE ISSUED 6/6/80

5. LEASE DESIGNATION AND SERIAL NO.
ML-27447

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
State

9. WELL NO.
16-7

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 16-T17S-R23E, SLM

12. COUNTY OR PARISH Grand
13. STATE Utah

15. DATE SPUDDED 11/11/80
16. DATE T.D. REACHED 12/15/80
17. DATE COMPL. (Ready to prod.) P&A 12/16/80
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5907' GL, 5918' KB
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5900'
21. PLUG, BACK T.D., MD & TVD
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)*
25. WAS DIRECTIONAL SURVEY MADE
no

26. TYPE ELECTRIC AND OTHER LOGS RUN
Schlumberger DI-SFL, CNFD
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"	32.3#	404' KB	12-1/4"	225 sacks	
7"	20#	1815' KB	8-3/4"	150 sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Plug #1 - 5775-	5600 - 50 sacks
Plug #2 - 3150-	3025 - 25 sacks
Plug #3 - 2000-	1750 - 50 sacks
Plug #4 - 200-	Surf - 40 sacks

33.* PRODUCTION

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

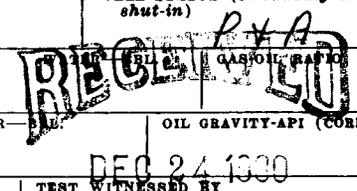
DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL--BBL. GAS--MCF.

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
DIVISION OF OIL, GAS & MINING

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Robert D. Ballantyne TITLE Drilling Supervisor DATE 12/22/80



INSTRUCTIONS

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

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

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

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

Item 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	MEAS. DEPTH
		TOP	
		MEAS. DEPTH	TURNVERT. DEPTH
NO CORES OR TESTS		Dakota Silt	5511'
		Dakota Sand	5631'
		Morrison	5750'

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: State No. 16-7

Operator: Beartooth Oil & Gas Company Address: Box 2564, Billings, Montana

Contractor: Nicor Drilling Company Address: 1715 Sec. Life Bldg, Denver, Co.

Location SW1/4 NE 1/4; Sec. 16 T. 17 ~~XX~~ R. 23 E; Grand County.
S XX

Water Sands:

<u>Depth:</u>		<u>Volume:</u>	<u>Quality:</u>
From-	To-	Flow Rate or Head	Fresh or Salty
1. 1940'	1960'	Water damp sand - no measureable amount of water	
2.			
3.			
4.			
5.			

(Continue on Reverse Side if Necessary)

Formation Tops:

Dakota Silt 5511'
Dakota Sand 5631'
Morrison 5750'

RECEIVED

DEC 24 1930

Remarks:

DIVISION OF
OIL, GAS & MINING

- 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.

January 5, 1981

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

RE: Well No. State #16-7
Sec. 16, T. 17S, R. 23E.,
Grand County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office December 22, 1980, from above referred to well indicates the following electric logs were run: DI-SFL, CNFD. As of today's date this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity log.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING



BARBARA HILL
WELL RECORDS

/bh