

UTAH OIL AND GAS CONSERVATION COMMISSION

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

* Location Abandoned- Well never drilled 5-11-82

DATE FILED 7-27-81

LAND: FEE & PATENTED ¹³ STATE LEASE NO. ML-29908 PUBLIC LEASE NO. _____ INDIAN _____

DRILLING APPROVED 8-12-81

SPUDED IN: _____
COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: 5980' GR

DATE ABANDONED: LA 5-11-82

FIELD: WILDCAT 3/86

UNIT: _____

COUNTY: SAN JUAN

WELL NO BRUSHY BASIN #1 API#43-037-30703

LOCATION 1820 FT. FROM (N) LINE. 620 FT. FROM (E) LINE. SE NE 1/4 - 1/4 SEC. 16

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				36S	21E	16	SOUTHLAND ROYALTY CO.

8

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

ML-29908

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Unit not approved yet.

8. FARM OR LEASE NAME

Brushy Basin Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 16, T36S, R21E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL [X]

DEEPEN []

PLUG BACK []

b. TYPE OF WELL

OIL WELL [X]

GAS WELL []

OTHER [X] Wildcat

SINGLE ZONE []

MULTIPLE ZONE []

2. NAME OF OPERATOR

Southland Royalty Company

3. ADDRESS OF OPERATOR

P.O. Drawer 570, Farmington, New Mexico

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

At surface

1820' FNL & 620' FEL

At proposed prod. zone

Same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

8 miles West of Blanding, Utah

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

620'

16. NO. OF ACRES IN LEASE

890

17. NO. OF ACRES ASSIGNED TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

--

19. PROPOSED DEPTH

5900' Paradox Salt

20. ROTARY OR CABLE TOOLS

Rotary

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

5980' GR

22. APPROX. DATE WORK WILL START*

August 20, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Contains two rows of casing data.

- 1) Drill a 13-1/2" surface hole and set 10-3/4" casing at 300', cement to surface.
2) Drill 7-7/8" hole to Total Depth (5900'). Log BOP, check in daily drilling reports.
3) Core as necessary in Pennsylvanian section.
4) Run electric logs.
5) Run 5-1/2" casing to 5900', cement in 2 stages with top of first stage covering Hermosa, 2nd stage from the top of Organ Rock to above the Wingate.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: 8/12/81

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

SIGNED

R. E. Fildner

TITLE District Engineer

DATE July 22, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

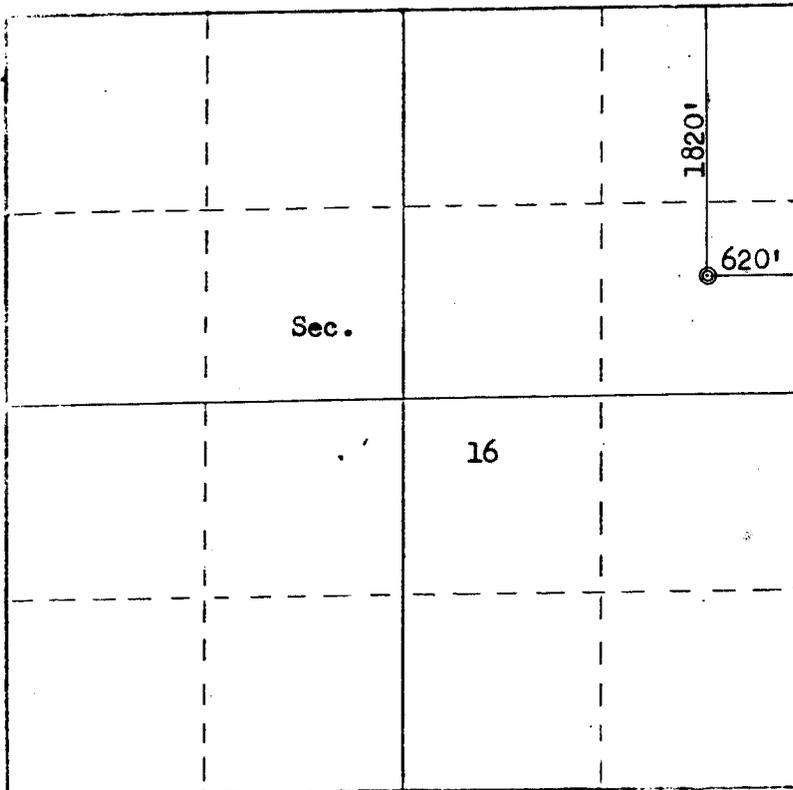
COMPANY SOUTHLAND ROYALTY COMPANY

LEASE BRUSHY BASIN UNIT WELL NO. 1

SEC. 16, T. 36S, R. 21E
San Juan County, Utah

LOCATION 1820' ENL 620' FEL

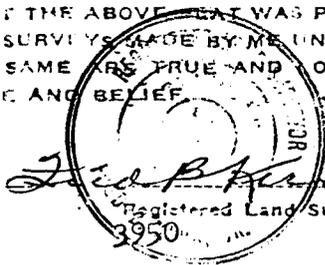
ELEVATION 5982 ungraded ground



SCALE 4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF

SEAL:



SURVEYED May 30 1981

Project No. 43-81-C

RECEIVED
JUL 27 1981

Federal Antiquities
Permit No. 80-UT-186

State of Utah (pending)

DIVISION OF
OIL, GAS & MINING

An Archaeological Survey of
an Access Road to Brushy Basin Unit #1,
San Juan County, Utah

for

Southland Royalty

Prepared and Submitted by

Margaret A. Powers
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 370
San Juan County Archaeological Research Center and Library

June 16, 1981

ABSTRACT

On June 10, 1981, the Division of Conservation Archaeology of the San Juan County Museum Association completed an archaeological survey of one access road for Southland Royalty. The survey area is located west of Blanding in San Juan County, Utah and is under the jurisdiction of the Bureau of Land Management and the State of Utah.

Two undiagnostic lithic sites, 42SA10280 (BLM) and 42SA10281 (State) and two isolated loci were recorded. Routes of avoidance circumventing the two sites were devised in conjunction with Southland Royalty and the Bureau of Land Management field representatives. Archaeological clearance is recommended providing 1) that route flagging be replaced if construction is delayed beyond September 10, 1981 and 2) that an archaeologist be present to monitor construction in the vicinity of 42SA10281.

INTRODUCTION

On June 10, 1981, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Southland Royalty of Farmington, New Mexico. Mr. John Crum of Southland Royalty requested the survey on June 3, 1981. Margaret A. Powers administered the project for DCA; Mr. Crum administered the project for Southland Royalty.

In recognition of the limited, nonrenewable nature of archaeological remains, federal and state governments have enacted legislation that is designed to conserve and protect these resources. The principal federal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmentally Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95).

In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is governed by the stipulations of a Federal Antiquities Permit (No. 80-UT-186) and a State of Utah Permit (pending) and is for purposes of compliance with these statutes.

Margaret A. Powers, DCA Archaeologist, surveyed the project area for cultural remains. The Moab District, Bureau of Land Management, was notified of the survey schedule prior to beginning fieldwork. The following persons were present during the field inspection: Mr. Terry Galloway, United States Geological Survey, Durango, Colorado; Mr. Bob Turri and Ms. Opal Redshaw of the San Juan Bureau of Land Management Resource Area office, Monticello, Utah; Mr. Max Larsen of Southland Royalty.

METHODS

The area was surveyed by walking a zigzag transect along the center line of the proposed access road. A buffer zone 10 feet on either side of the proposed right-of-way was also surveyed. The archaeologist recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated loci (IL). Pertinent environmental data were also recorded.

In addition to field inspection, the archaeologist conducted a search of the records at the San Juan Resource Area office to determine if any sites had been previously recorded in the project area. Site and project records required by the Bureau of Land Management were completed.

PROJECT AREAS

ACCESS ROAD TO BRUSHY BASIN UNIT #1

Legal Description: Sections 15 and 16, T36S, R21E, S.L.M.
San Juan County, Utah (Figure 1)

UTM Coordinates: Zone 12, 4168820N, 623120E (west end of access road)
Zone 12, 4168550N, 623700E (east end of access road)

Map Source: U.S.G.S. 15' Brushy Basin Wash, Utah (1957)

Land Jurisdiction: Bureau of Land Management
State of Utah

Project Area: 20' x ca. 2,000' (road)

Description: The access road leaves an existing county road and winds gently westward through the pinyon-juniper woodland in Section 15 to the well location in Section 16. The vegetation covers approximately 30 to 40% of the ground surface. Exposures of bedrock are common in the washes and aeolian sand blankets the intervening ridges.

Cultural Resources: Two prehistoric sites are located near the section line near the western part of the access road. Site 42SA10280 lies on or just east of the section line (BLM). Site 42SA10281 lies about 150 feet west of the section line (State of Utah).

Site 42SA10280 (DCA-81-199) is a small lithic scatter including two pieces of groundstone slabs and an eroding concentration of about 150 flakes and one red chert scraper. A shallow drainage dissects the site and has transported a third or more of the artifacts downslope (Figure 2). A few sandstone chunks near the crest of the ridge may be the remains of a hearth or cist. The majority of the debitage is chert, mostly small trimming or resharpening flakes.

Site 42SA10281 (DCA-81-200) is a large scatter of lithic debris, sandstone chunks, some grinding tools, ashy soil, and one sherd. The site stretches generally north-south along a sandy ridge between two forks of an intermittent drainage (Figure 3). Several concentrations of debris are present, the largest located in the northwestern part of the ridge where the crest is flatter. Two mano fragments, including one two handed mano were evident. One chopper/hammerstone of white quartzite and one biface midsection were present. The bulk of the lithic material consists of cores, core fragments, chunks of raw material, decortification flakes, and large trimming flakes. Resharpening flakes are rare. Clusters of sandstone mark features of indeterminate form. Only one sandstone cluster (C4) is associated with ashy soil and it probably is the locus of most of the site activity. Other clusters (C1, C2, and C3) are smaller and contain fewer artifacts. They may be activity areas not contemporaneous with C4. The single sherd is not adjacent to any concentration of material and is probably a chance association. No other diagnostic artifacts are present.

It is likely that the two sites are related, possibly contemporaneous. Site 42SA10280 is smaller and contains evidence of the later stages of lithic reduction. Site 42SA10281 may have served as a longer

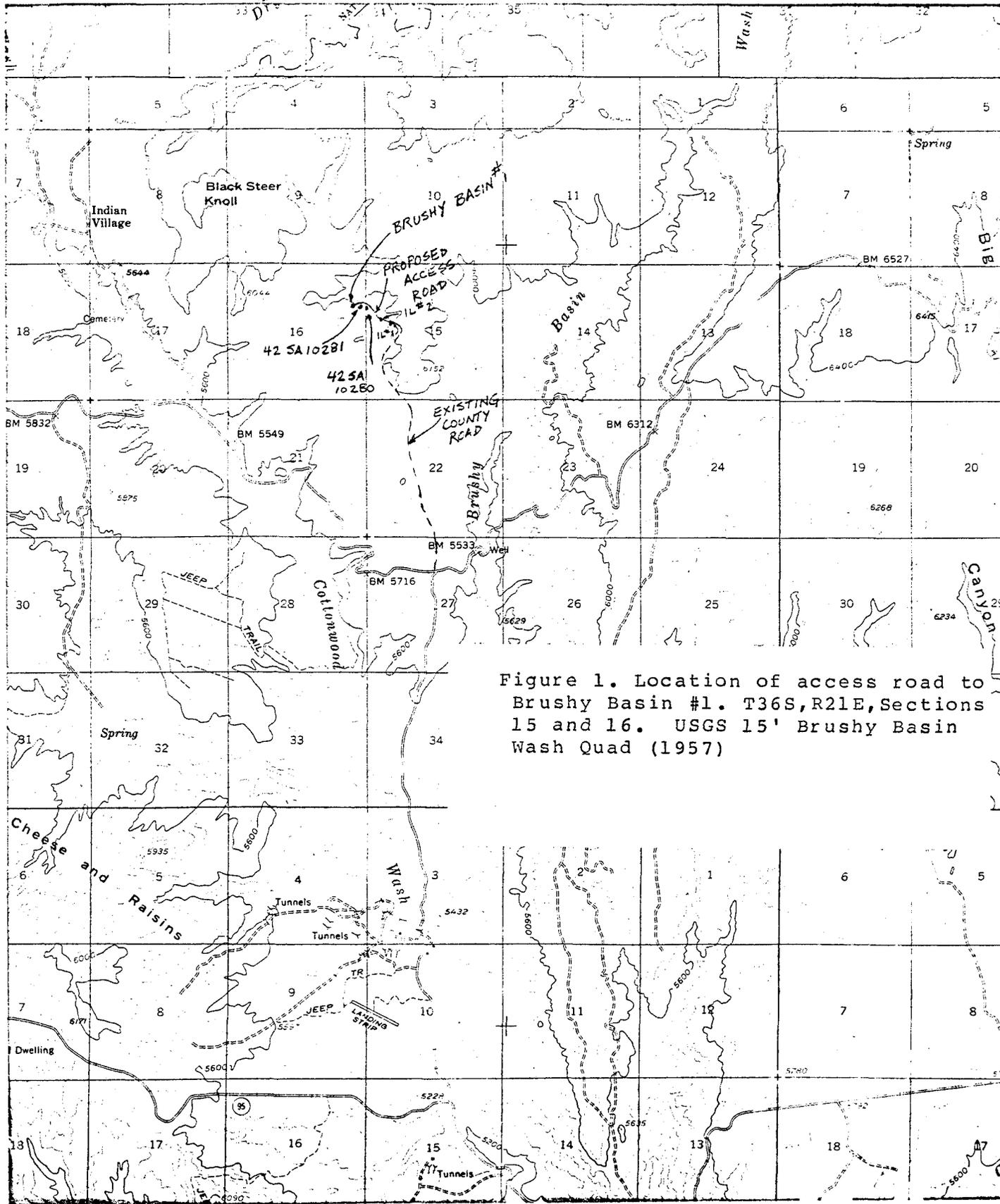
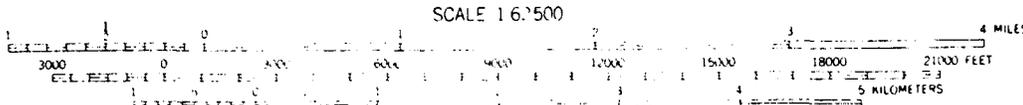


Figure 1. Location of access road to Brushy Basin #1. T36S, R21E, Sections 15 and 16. USGS 15' Brushy Basin Wash Quad (1957)



NATIONAL GEODETIC VERTICAL DATUM OF 1929



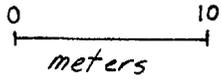
term encampment with more substantial features and more manufacturing activities. None of the lithic material present appears to be eroding from nearby outcrops but it is probably derived from the nearby highlands in the Abajo Mountains.

Two isolated loci are also present. Each is a single tertiary chert flake. No other artifacts or features were evident around these loci.

Recommendations: The two isolated loci lack further research potential. The two sites contain archaeological data that warrants protection. Site 42SA10280 can be completely avoided by rerouting the access road to the north. Because of topographic restrictions, 42SA10281 could be only partially avoided by routing the road through the northern edge of the site where artifact density is very low and where artifacts appear to be eroded. Soils in this area are thin thus having only a minimal likelihood of containing subsurface deposits. Therefore, archaeological clearance is recommended with the following stipulations:

- A. That the sites be avoided by following the flagged routes that have been marked around them
- B. That if construction is delayed by beyond September 10, 1981, that the route flagging be checked and replaced if necessary
- C. That, if the State of Utah concurs, an archaeologist monitor construction in the vicinity of 42SA10281. Should a monitor not be required, we recommend that all vehicular activity be confined to a strip running 10 feet on either side of the flagged center line.

FIGURE 2



DCA-81-199
42 SA 10280

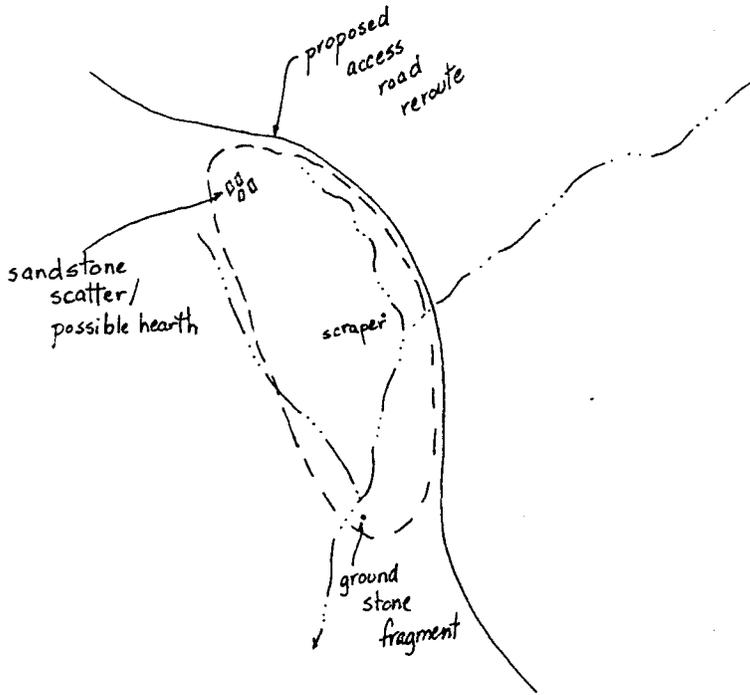
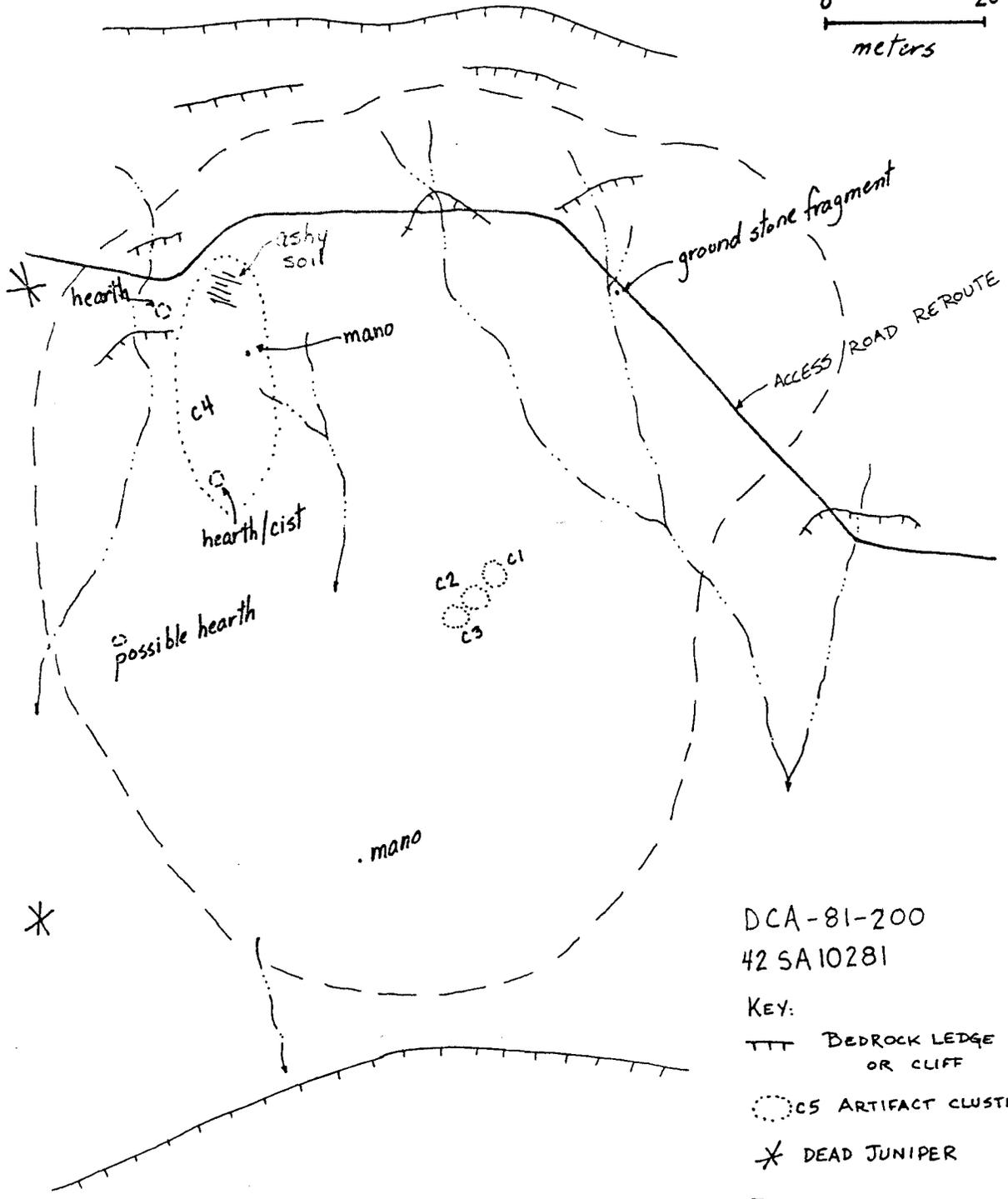
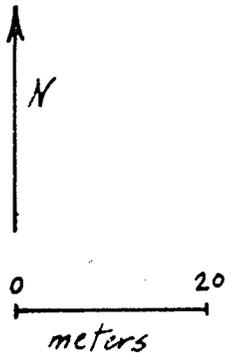


FIGURE 3



DCA-81-200
42 SA10281

- KEY:
- TTT BEDROCK LEDGE OR CLIFF
 - C5 ARTIFACT CLUSTER
 - * DEAD JUNIPER
 - ⊃ APPROXIMATE SITE LIMITS



Southland Royalty Company

July 23, 1981

RECEIVED

JUL 27 1981

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

**DIVISION OF
OIL, GAS & MINING**

Attention: Mr. Cleon B. Feight

Dear Mr. Feight:

Please find enclosed for your information, a copy of the Archaeological Survey we had done on the access road across Federal Land in Section 15 to the proposed location of our Brushy Basin Unit #1 in Section 16, T36S, R21E, San Juan County, Utah.

We were required to do the survey in order to obtain a ROW from the BLM. The survey also investigated the actual location site which is on Utah State Acreage.

We have now received a ROW from the BLM, and sent out our application for permit to drill to your office yesterday.

Please let me know if any additional information is needed in your review of our application. We have an August 30, 1981 deadline for spudding and propose to move a rig in around August 24, 1981.

Sincerely yours,

SOUTHLAND ROYALTY COMPANY

John A. Crum
Petroleum Engineer

JAC/eg

Enclosures

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

BRUSHY BASIN #1
1820' FNL & 620' FEL
Section 16, T36S, R21E
San Juan County, Utah

Field: Wildcat Elevation: 5980' GR

Geology:

Formation Tops:	Wingate	1550'	Upper Hermosa	4605'
	Chinle	1835'	Upper Ismay	5500'
	Moenkopi	2600'	Desert Creek	5710'
	Organ Rock	2880'	Paradox Salt	5875'
	Cedar Mesa	3260'	Total Depth	5900'
	Elephant Canyon	3780'		

Logging Program: DIL/SFL run from T.D. to Surface Casing,
GR/CNL-FDC with Caliper from T.D. to 3600',
GR/BHC-Sonic with Caliper from T.D. to 3600',
Dipmeter from T.D. to 5400' (with Geologist's consent).
Mud Logger and Wellsite Geologist to be on location
from 1500' to Total Depth.

Coring and Sampling Program:

30' samples from surface casing to 3600',
10' samples from 3600' to Total Depth.
Core points will be picked by the Wellsite Geologist.

Drill Stem Testing:

DST to be run on all shows below 4500'.

Drilling:

Contractor:

Tool Pusher:

SRC Representative: John Crum

SRC Answering Service: (505) 325-1841
Dispatch Number: (505) 325-7391

Mud Program:

0' - 300'	Spud Mud.
300' - 3600'	Benex and Water. Mud up as necessary for lost circulation or tight hole conditions.
3600' - T.D.	Fresh water low solids, mud should be treated for expected anhydrite from Hermosa to T.D.

Materials:

<u>Casing Program:</u>	<u>Hole Size</u>	<u>Depth Set</u>	<u>Casing Size</u>	<u>Weight & Grade</u>
	13-1/2"	300'	10-3/4"	32.75# H-40
	7-7/8"	5900'	*	

Float Equipment:

10-3/4" Surface Casing: B & W Cement Guide Shoe (FC01).

* Production Casing: To be specified if casing is run.

Wellhead Equipment: 10-3/4" X 10", 2000# bradenhead.

Cementing Program:

10-3/4" Surface Casing: 185 sacks (218 cu.ft.) of Class "B" with 1/4# gel flake per sack and 3% CaCl₂. (100% excess to circulate to surface.) WOC 12 hours. Test casing to 600 psi prior to drilling out.

Production Casing: Slurry and volume to be determined if casing is run.

L. O. Van Ryan
District Production Manager

LOVR/JAC/eg

7/20/81



Southland Royalty Company

July 21, 1981

Utah Oil & Gas Commission
1588 West North Temple
Salt Lake City, Utah 84116

RE: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" or larger double gate hydraulic blowout preventers and a hydraulic operated closing unit with steel lines.

The preventer is 3000# working pressure and 6000# test pressure.

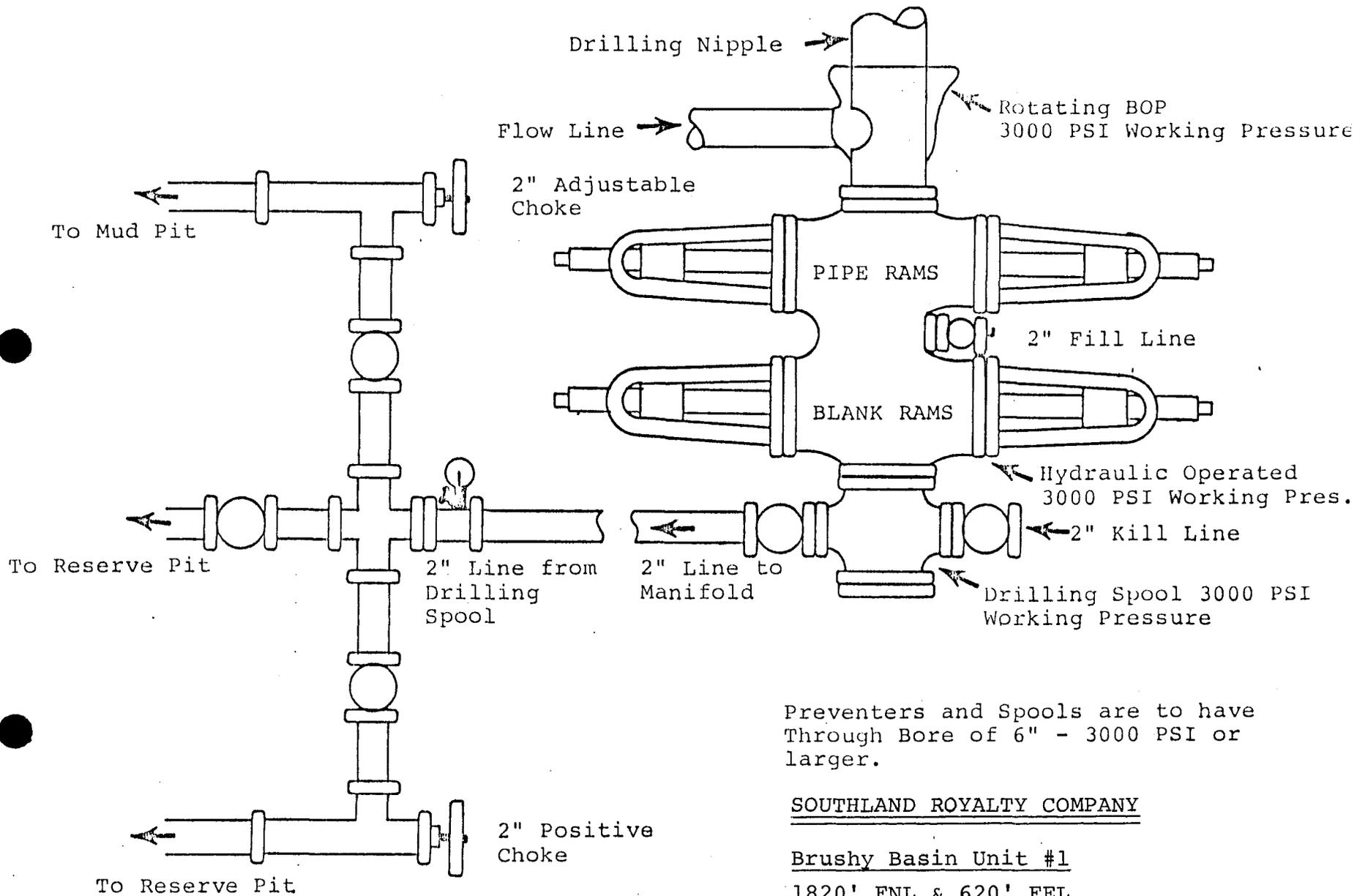
All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to ensure proper operation.

Sincerely,

SOUTHLAND ROYALTY COMPANY

R. E. Fielder
District Engineer

REF/eg



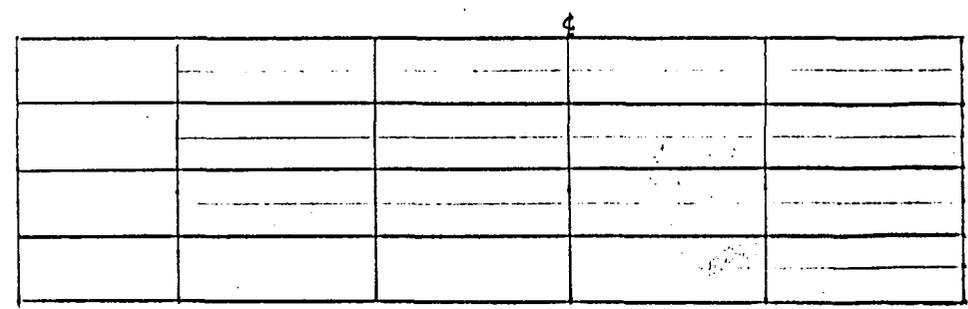
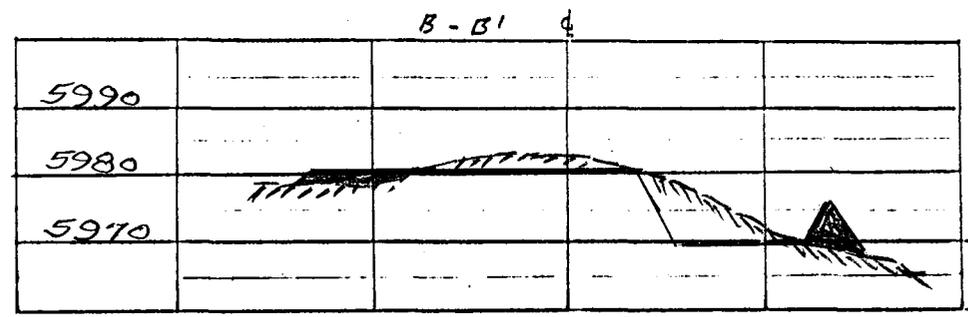
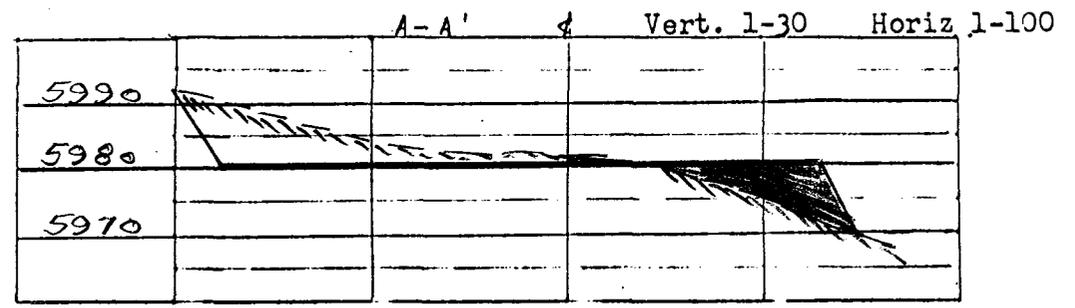
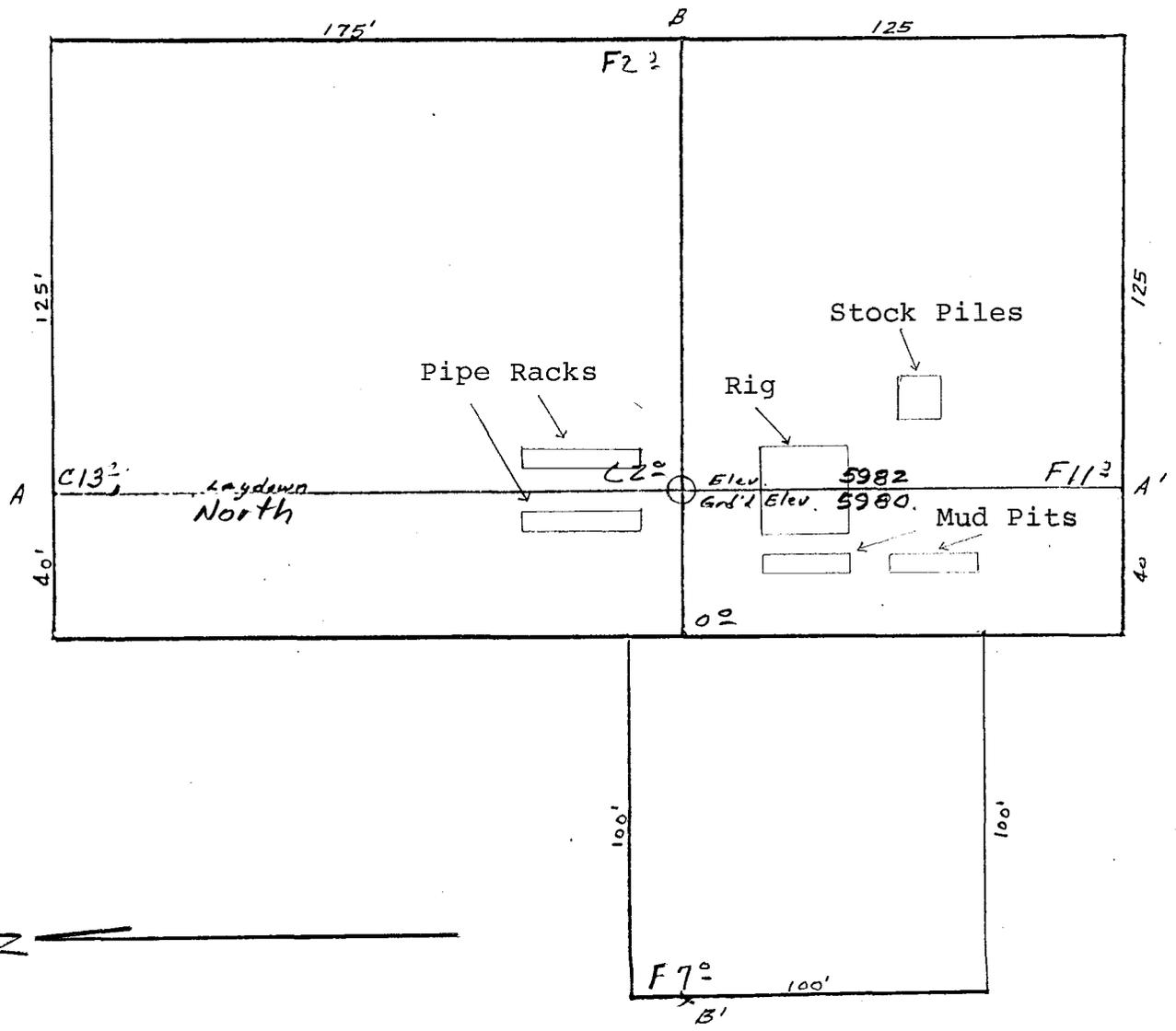
Preventers and Spools are to have Through Bore of 6" - 3000 PSI or larger.

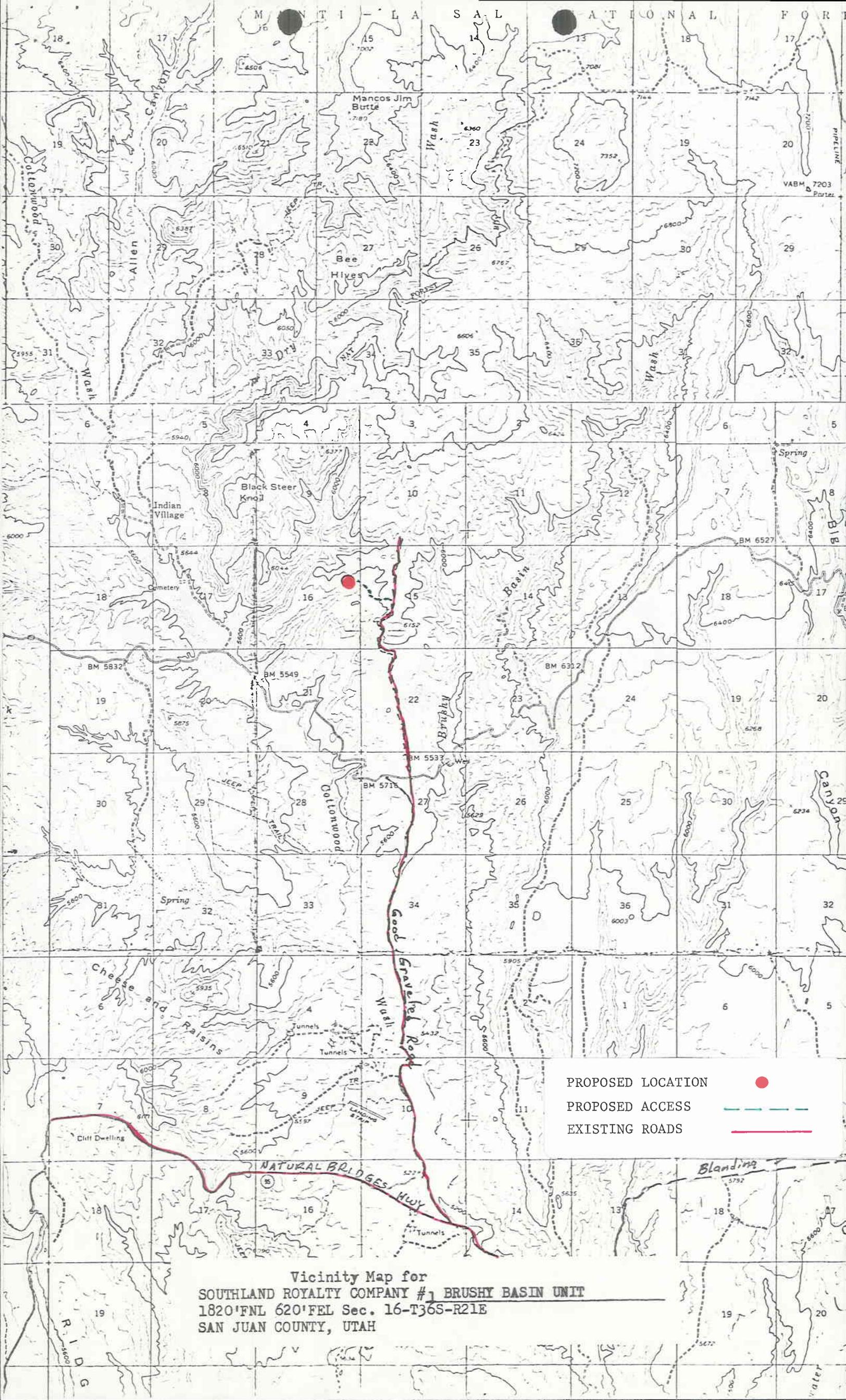
SOUTHLAND ROYALTY COMPANY

Brushy Basin Unit #1

1820' FNL & 620' FEL
 Section 16, T36S, R21E
 San Juan County, Utah

Profile Map for
 SOUTHLAND ROYALTY COMPANY #1 BRUSHY BASIN UNIT
 1820'FNL 620'FEL Sec. 16-T36S-R21E
 SAN JUAN COUNTY, UTAH





Vicinity Map for
 SOUTHLAND ROYALTY COMPANY #1 BRUSHY BASIN UNIT
 1820'FNL 620'FEL Sec. 16-T36S-R21E
 SAN JUAN COUNTY, UTAH

PROPOSED LOCATION ●
 PROPOSED ACCESS ---
 EXISTING ROADS ---

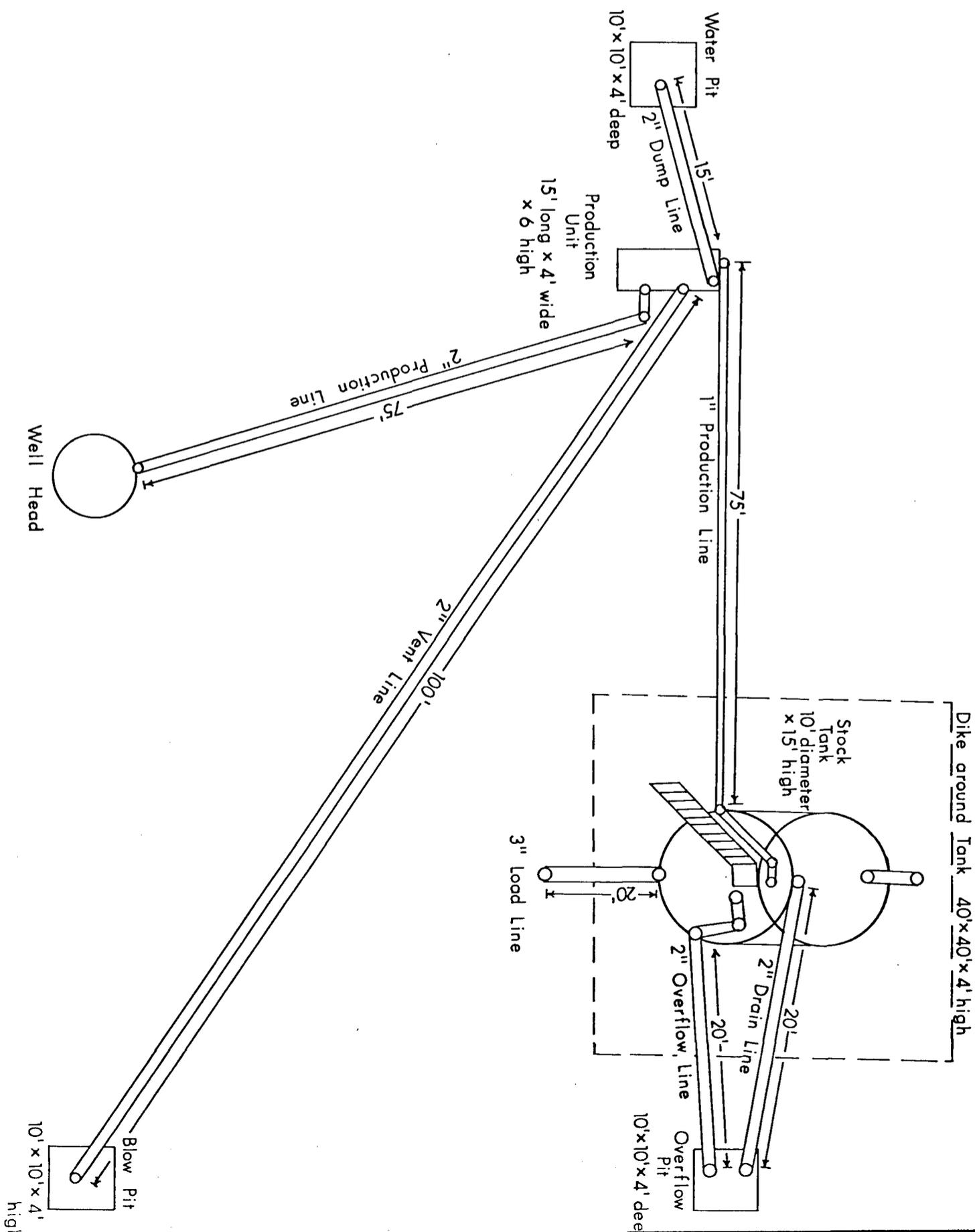


Southland Royalty Company
ROCKY MOUNTAIN DISTRICT
FARMINGTON, NEW MEXICO

PROPOSED PRODUCTION FACILITY LAYOUT

WELL Brushy Basin Unit #1
1820' FNL & 620' FEL
LOCATION Section 16, T36S, R21E
San Juan County, Utah

NOTE: ALL PITS WILL BE FENCED AND
A DIKE WILL BE CONSTRUCTED
AROUND TANK BATTERY.



** FILE NOTATIONS **

DATE: Aug. 10, 1981

OPERATOR: Southland Royalty Co.

WELL NO: Bushy Basin #1

Location: Sec. 16 T. 36S R. 21E County: San Juan

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-037-30703

CHECKED BY:

Petroleum Engineer: _____

Director: Approved Rule C-3

Administrative Aide: ok as per Rule C-3, ok on boundaries, ok on any other di or gas well.

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.

August 13, 1981

Southland Royalty Company
P. O. Drawer 570
Barrington, New Mexico 87401

RE: Well No. Brushy Basin Unit
Sec. 16, T. 36S, R. 21E,
San Juan County, Utah

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

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify 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 number assigned to this well is 43-037-30703.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight
Director

CBF/db
CC: State Lands



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building - Salt Lake City, UT 84114 • 801-533-5771

May 5, 1982

Southland Royalty Company
P. O. Drawer 570
Farmington, New Mexico 87401

Re: Well No. Brushy Basin #1
Sec. 16, T. 36S, R. 21E.
San Juan County, Utah

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Clerk Typist



Southland Royalty Company

May 11, 1982

Ms. Cari Furse
State of Utah Natural Resource & Energy
4241 State Office Building
Salt Lake City, Utah 84114

RE: Brushy Basin Unit #1
Section 16, T36S, R21E
San Juan County, Utah

Dear Ms. Furse:

In response to your letter of May 5, 1982, we do not plan to drill the above referenced well this year. The location will be reclaimed this year.

If you need more information, please contact us.

Sincerely,

SOUTHLAND ROYALTY COMPANY

R. E. Fielder
R. E. Fielder
District Engineer

REF/eg

RECEIVED
MAY 13 1982

**DIVISION OF
OIL, GAS & MINING**