

FILE NOTATIONS

Entered in N I D File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy N I D to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 7-29-78

QW..... WW..... TA.....

GW..... OS..... PA.....

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.) _____

E..... I..... E-I..... GR..... GR-N..... Micro.....

Lat..... Mi-L..... Sonic..... Others.....

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: U-27619

and hereby designates

NAME: Samedan Oil Corporation
ADDRESS: Suite 1280 - The First of Denver Plaza
Denver, Colorado 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 31 South, Range 4 East
Section 18: All
Section 19: All
Section 30: All
Section 31: All
Garfield County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

Robert P. Kunkel



(Signature of lessee)

March 24, 1976

(Date)

757 North Cliffe Drive
Salt Lake City, Utah 84103

(Address)

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 MULTIPLE ZONE

2. NAME OF OPERATOR
 Samedan Oil Corporation

3. ADDRESS OF OPERATOR
 Suite 1280 - 633 17th Street, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface NE/4 NE/4
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 20 miles SE Bicknell

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 2408

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

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

19. PROPOSED DEPTH 10,500

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 11,110 GR

22. APPROX. DATE WORK WILL START* 6-15-76

5. LEASE DESIGNATION AND SERIAL NO.
 U-27619

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Fed.-Kunkle

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T. R., M., OR BLK. AND SURVEY OR AREA
 18 T31S-R4E

12. COUNTY OR PARISH
 Garfield

13. STATE
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
30"	26"	102.63	100	Sufficient to circulate
26"	20"	91.50	600	Sufficient to circulate
13 3/8"	9 5/8"	40	5000	500 sx.

Propose to set 100' conductor pipe and 600' surface casing. Will attempt to drill approximately 5000' of 12 1/4" hole with air and set 9 5/8 then, drill to T.D. with mud. Surface casing will be tested to 1500 psi for 30 min. before drilling out. BOP's will be operationally checked daily. All shows of oil and/or gas encountered while drilling will be drillstem tested.



Plant

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 [Signature] TITLE Division Manager DATE 3-24-76

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF OIL, GAS, AND MINING

FILE NOTATIONS

Date: March 29-
 Operator: Samedan Oil Corp.
 Well No: Fed. - Kumbler #1
 Location: Sec. 18 T. 31S R. 4E County: Garfield

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

Checked By:
 Administrative Assistant: [Signature]

Remarks:
 Petroleum Engineer/Mined Land Coordinator: [Signature]

Remarks: *Please advise that approval cannot be given unless ~~it~~ ^{is} accompanied by ^{surveying} plat so footages may be checked*
 Director: _____
 Remarks: *Also, does Samedan have *12 point program prepared for U.S.G.S. If so, we should have copy as this is a rank wildcat.*

Include Within Approval Letter:

Bond Required Survey Plat Required
 Order No. _____ Blowout Prevention Equipment
 Rule C-3(c) Topographical exception/company owns or controls acreage within a 660' radius of proposed site
 O.K. Rule C-3 O.K. In _____ Unit
 Other:

Disapproved
 Letter Written

APRIL 2, 1976

Samedan Oil Corporation
Suite 1280
633 17th Street
Denver, Colorado 80202

Re: Well No. Federal Kunkle #1
Sec. 18, T. 31 S, R. 4 E,
Garfield County, Utah

Gentlemen:

Please be advised that this Division is in receipt of your "Application for Permit to Drill" for the above referred to well.

However, it should be noted that approval will not be granted by this office until the following conditions have been met:

- a) A surveyors plat, prepared by a licensed surveyor or engineer, has been submitted indicating the exact footage location of the proposed well.
- b) As said well is in a wildcat area, it is requested that a copy of your company's 12-point program prepared for the United States Geological Survey be submitted to this office as well.

Should you have any questions relative to the above stipulations, please do not hesitate to call or write.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: U.S. Geological Survey

SAMEDAN OIL CORPORATION
SUITE 1280
THE FIRST OF DENVER PLAZA BUILDING
633 - 17th STREET
DENVER, COLORADO 80202

May 12, 1977

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

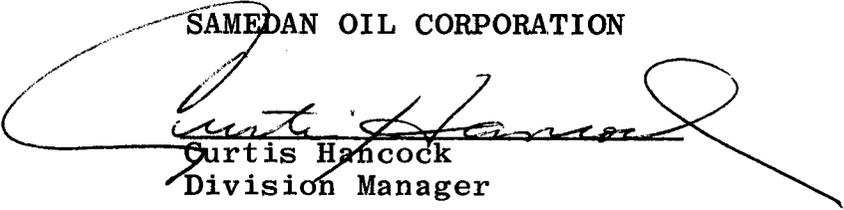
Re: Boulder Mountain
Garfield County, Utah

Gentlemen:

Please find enclosed three (3) copies of Application for Permit to Drill along with additional information filed with the U.S.G.S. to comply with NTL-6 for the above captioned well.

Yours very truly,

SAMEDAN OIL CORPORATION


Curtis Hancock
Division Manager

CH/kk
Encl



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other instructions reverse side)

ADDITIONAL REPORT NO. 42 R1125

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
 Samedan Oil Corporation

3. ADDRESS OF OPERATOR
 633 17th St., Suite 1280, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1871.41' E of W Line and 88.35'S of N Line of Section.
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 23 miles SE of Bicknell, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. line, if any)
 16. NO. OF ACRES IN LEASE 2408
 17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 8500'
 20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 11,120'
 22. APPROX. DATE WORK WILL START* 9-21-76

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26	20"	169#	500'	Sufficient to circulate
14 3/4	9 5/8	36# & 40#	5200'	
8 3/4	5 1/2	15# & 17#	8500'	

Approval notice - Div of Oil, Gas, & Mining - Utah

See attached Proposed Drilling Program.
 It is anticipated that roads and location will be completed during September and October, 1976 and drilling operations to be commenced on or before July 1, 1977.

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 [Signature] TITLE Division Manager DATE 8-30-76

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY [Signature] TITLE DISTRICT ENGINEER DATE MAY 13 1977
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Samedan Oil Corp. #1 Fed. (Wildcat)	1871'FWL, 88'FNL, sec. 18, T. 31 S., R. 4 E., SLM, Garfield Co. Gr. El. 11,120'	U-27619
<p>1. Stratigraphy and Potential Oil and Gas Horizons. Surface rocks are Tertiary volcanics of unknown thickness. No nearby wells, so the operator's prediction of tops is probably as good a guess as any.</p> <p>2. Fresh Water Sands. In this general area WRD has reported that the Entrada, Glen Canyon Grp., Chinle, and Kaibab may contain usable water.</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) None.</p> <p>4. Possible Lost Circulation Zones. The volcanic rocks could possibly give circulation problems, but the well is to be drilled with air-mist.</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Unknown.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Unknown.</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Probably competent.</p> <p>8. Additional Logs or Samples Needed. None.</p> <p>9. References and Remarks Remote from KGS. MF-102, I-591.</p>		
Date: September 16, 1976	Signed: <i>State Oil & Gas</i> <i>S R alto</i>	

Exhibit "C"

RECEIVED
AUG 9 1976
SAMEDAN OIL CORP.
DENVER, COLO.

Box 393
Boulder, Utah 84716
August 5, 1976

Mr. Curtis Hancock
Samedan Oil Corp.
Suite 1280, First of Denver Plaza
Denver, Colorado 80202

Dear Mr. Hancock:

Re: Boulder Mountain, S5 & 7, T 31S R 4E

An archaeological survey was conducted at the above drill site (S 7) and barrow area (S 5) August 2, 1976, as you requested.

Southern Utah was inhabited prehistorically by peoples from the Anasazi as well as the Fremont cultures. Because of the elevation of the drill site and barrow area (11,000 ft.), we did not expect to find any evidence of permanent habitation. The possibility of finding a seasonal use area did exist, however.

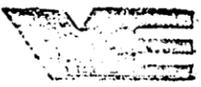
After conducting a survey of the two mentioned areas on foot, I find no evidence of their use by prehistoric man and therefore see no archaeological reason to prevent drilling operations.

Sincerely,



Larry Davis
Archaeologist

cc: Ted Knowles



VALLEY ENGINEERING, INC.

CONSULTING ENGINEERS
LAND SURVEYERS

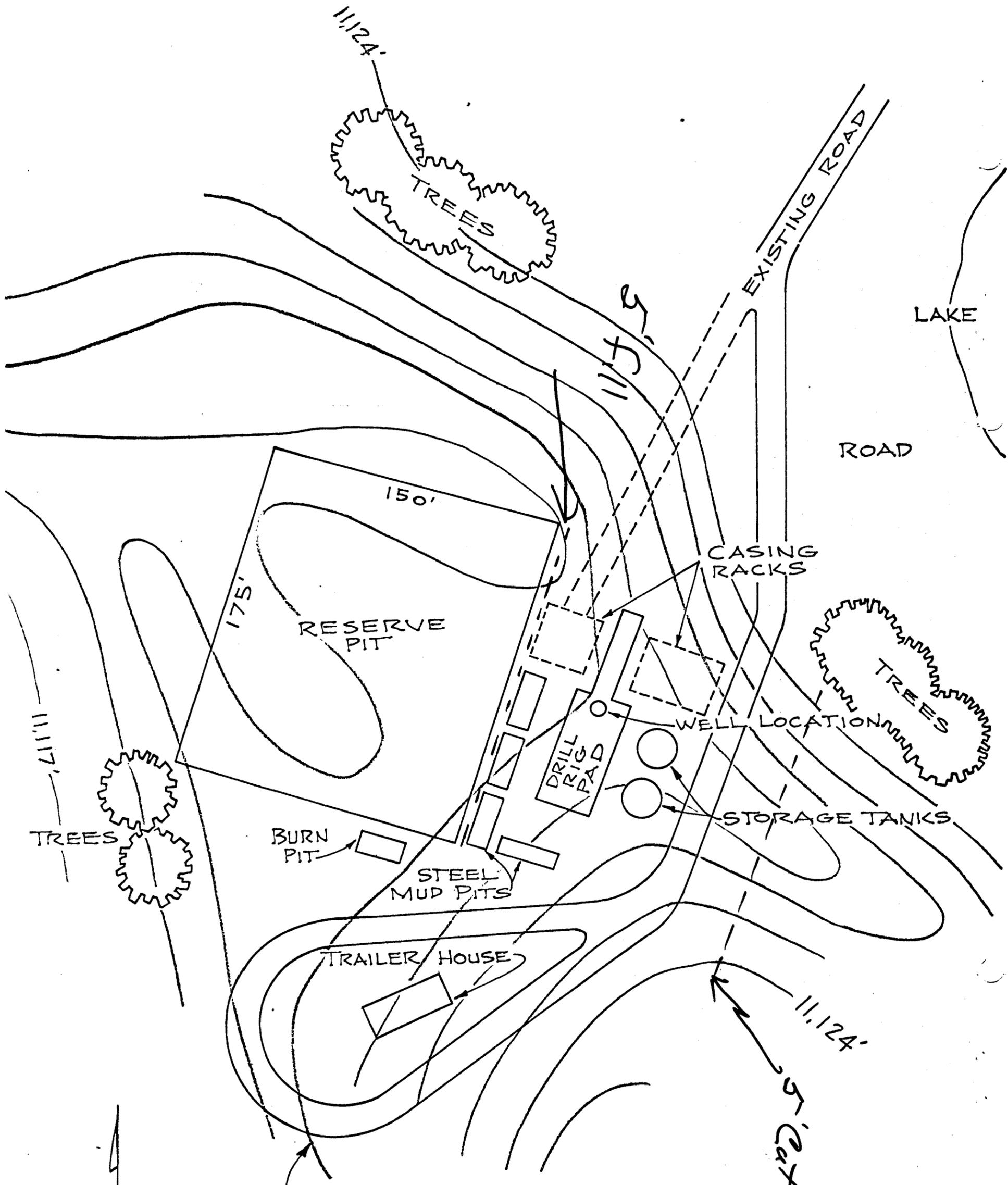
190 No. 1st E., Richfield, Utah

JOB 76-200-021

CLIENT SAMEDAM OIL CORP.

Designed by _____ Date 7-29-76

Checked by _____ Sheet 2 of 2



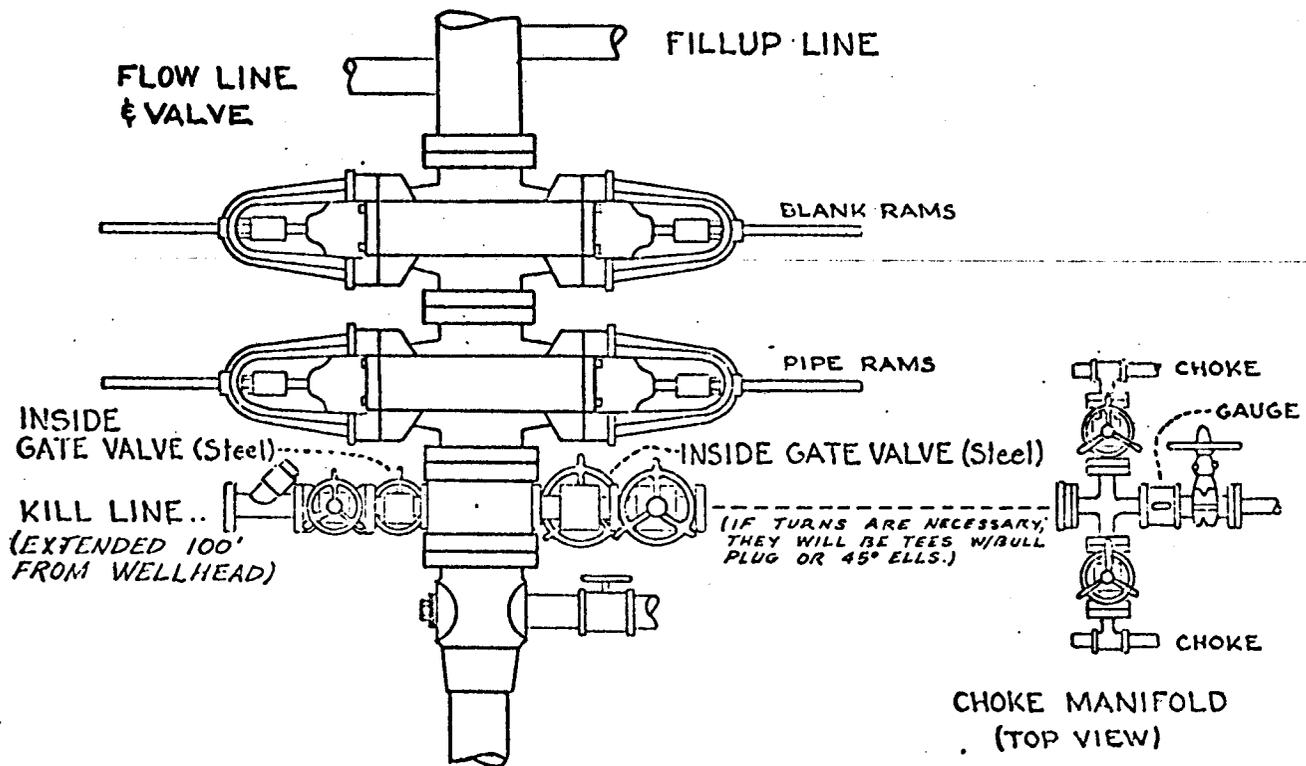
SCALE  1"=50'

CONTOUR INTERVAL: 1 FOOT

THIS CONTOUR ASSUMED TO BE 11,120'. ALL OTHER CONTOURS RELATIVE TO SUCH.

EXHIBIT 'B'

**BLOWOUT PREVENTER
FOR
MEDIUM PRESSURE WELLS
(900 SERIES MIN.)**



NOTE: Choke manifold to be either
3" or 4".
To be 900 Series, Minimum.

REQUIREMENTS

1. Kill Line and Choke Manifold maybe connected to Braden Head at Area Supervisor's discretion in event of low substructure.
2. Hydraulic closing unit required.
3. Steel lines from B.O.P. to closing unit required.



VALLEY ENGINEERING, INC.

CONSULTING ENGINEERS
LAND SURVEYERS

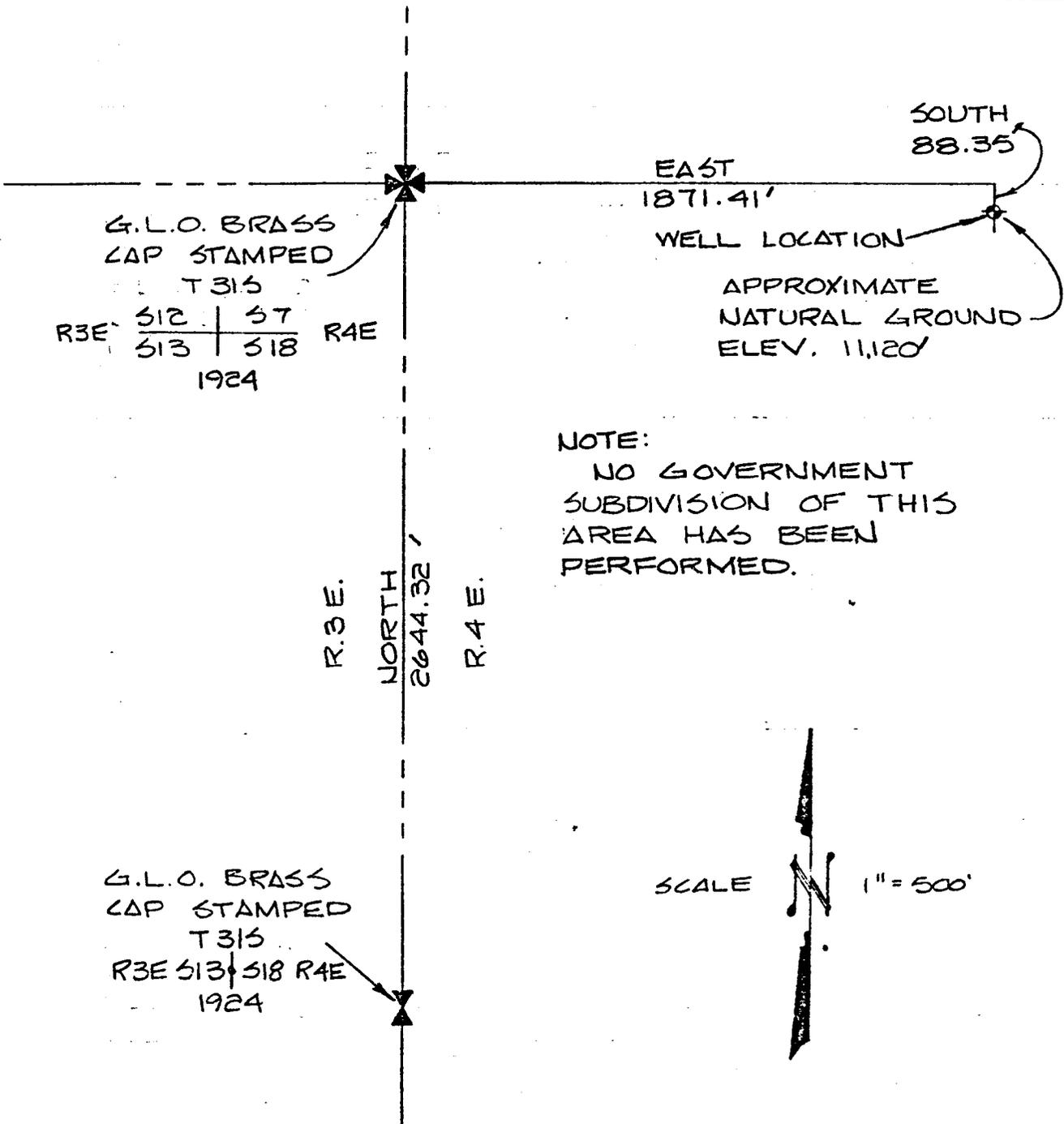
190 No. 1st E., Richfield, Utah

JOB # 76-205-021

CLIENT SAMEDAM OIL CORP.

Designed by _____ Date 7-29-76

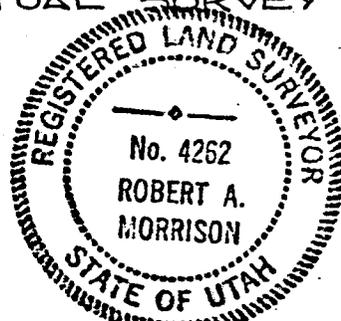
Checked by _____ Sheet 1 of 2



SURVEYOR'S CERTIFICATE

I HERE CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY PERFORMED UNDER MY DIRECT SUPERVISION

Robert A. Morrison
ROBERT A. MORRISON
L.S. NO. 4262



PROPOSED DRILLING PROGRAM

It is anticipated that an air percussion tool will be used to drill a 12 $\frac{1}{4}$ " surface (0' to 500') hole and the rat and mouse holes. A mixture of air, 12 to 15 gpm of water, and a soap concentrate will provide the circulating medium to power the air hammer and clean the hole. Two hole opener runs will be required to open the 12 $\frac{1}{4}$ " hole to 26". The hammer will not be employed in this operation but a similar circulating medium will be used.

The intermediate hole will be 14 $\frac{3}{4}$ " from 500' to 100' into the top of the Chinle Formation estimated to be at approximately 5100'. An intermediate string of 9 $\frac{5}{8}$ " casing will be run to 5200' with a 2 $\frac{3}{8}$ " parasite string attached down to approximately 2700' or 2800'. The parasite string is to be used to inject air into the drilling fluid to assist in maintaining circulation. From 5200' to T.D. estimated to be 8500', an 8 $\frac{3}{4}$ " hole will be drilled. If commercial production is encountered, either 5 $\frac{1}{2}$ " or 7" production casing will be run. The cementing procedure and amounts will be determined after reaching T.D. All coring and testing of significant shows of oil and or gas will be at the discretion of the well site geologist .

PROPOSED LOGGING PROGRAM

1. Two man mud logging unit with complete gas analysis from surface to T.D.
2. Electric logs will be run immediately before each string of casing and upon reaching T.D. IES-Sonic-GR Logs.

PROPOSED MUD PROGRAM

Air-mist-foam is proposed as a circulating medium for drilling the upper portion of the hole (0' to 5200').

In the event water becomes a serious problem in the upper section of hole, a low viscosity bentonite slurry may be used in conjunction with the air.

The lower portion of the hole from 5200' to T.D. will employ a low viscosity bentonite slurry with the flow characteristics controlled by chemicals.

Approximately 10% by volume of asphalt based crude oil will be emulsified into the bentonite slurry. The mud system will be maintained as light as possible by mechanical removal of solids and with water and crude oil dilution.

Estimated Formation Tops of important geologic markers.

<u>NAME</u>	<u>DEPTH</u>	<u>THICKNESS</u>
Entrada	1825'	750'
Navajo	3600'	1100'
*Shinarrump	5510'	225'
*Moenkopi	5825'	700'
*Kaibab	6525'	290'
*Toroweap	6815'	400'
*Cedar Mesa	7465'	1000'

*Promising oil objectives. No water or gas bearing formations are expected to be encountered.

PRESSURE MONITORING AND CONTROL DATA

SEVEN POINT PROGRAM

1. Surface casing: new 20", 169#, D-55, 500'.
2. Size and series of casing head, flanges and spools to be used: 20", Series 900 casing head, flanges and spools.
3. Intermediate casing:
New 9 5/8, 36# and 40# K-55 - 5200' w/2 3/8 parasite string.
10" 900 series casing head, flanges and spool to be used.
4. Blowout Preventers: The blowout preventers to be used will be per the enclosed Blowout Preventers Exhibit "D".
5. Auxillary equipment to be used:
 - A) Kelly cocks will be used from surface to T.D.
 - B) Floats for bit will be used while drilling with aerated mud and air only.
 - C) Pit volume totalizer and flow sensor and choke manifold will be installed at 5200'.
 - D) A stabbing valve will be on the rig floor when Kelly not in string.
6. Anticipated bottom hole pressure at T.D. Maximum expected pressure is 2000 psi.
7. The types of drilling fluid: An "air-foam-mist" operation is planned for drilling to 5200'. From 5200' to T.D. an aerated mud program is contemplated in order to combat lost circulation which is expected due to under pressured formations.

II. Planned access roads.

The access road No. 30522 which is presently a set of wheel tracks leading to the proposed well site will be improved as outlined in No. 1 a, b and c above.

III. Location of existing wells.

There are no wells of any kind within a two mile radius of the proposed well.

IV. Location of tank batteries, production facilities and production gathering and service lines.

There are no existing tank batteries, production facilities and production gathering or service lines within a one mile radius. The attached plat labeled Exhibit "B" depicts the lay out of rig and its components. If production is established then the production facilities will be on the well site pad.

V. Location of Water supply.

Water to be used for drilling will be taken from Bakeskillet Lake approximately 300 feet northeast of proposed well. The Lake is on Federal Lands and permission has been obtained from the District Forest Ranger, Ted A. Knowles, for use of the water. A 2-Inch water line will be laid on top of the ground and pumped to the well site. Location of the Lake is shown on Exhibit "B" attached.

VI. Source of construction materials.

Soil to be used to construct a 14 foot wide road bed on Road No. 30522 described in item No. 1 above, will be obtained from a Borrow Pit located at Mile Post 1.9 on the Crater Lake Road No. 30522. (0.2 of a mile from the junction of the Bown's Point Road. Borrow Pit area is marked by "X" in red on Exhibit "A"). The top 4 to 8 inches of top soil from the Borrow Pit will be stock piled and saved for later placing back on the disturbed area. Borrow area after use will be left in such a state that it will drain and be acceptable for re-seeding.

VII. Methods for handling waste disposal

All waste disposal and trash used and collected in the drilling of proposed well will be placed in a burn pit (shown on Exhibit "B"), which will be encircled with a mesh wire. If any waste materials are burned, such burning will be done under favorable weather conditions after obtaining approval from the proper governmental authorities. The reserve pit will be fenced on three sides while drilling and then completed on the fourth side when drilling is completed and will remain intact until pits have dried up and recontouring can begin.

Any water or oil recovered while testing will be contained in the reserve pit while drilling. After drilling has been completed, any oil on the reserve pit will be picked up with a vacuum truck and salvaged or be disposed of in a manner acceptable to the proper governmental authorities.

VIII. Ancillary facilities

There are no plans for a camp at this location and no air strip will be constructed. The trailer house shown on Plat "B" will be used as living quarters for supervisory personnel.

IX. Well site layout

Attached Exhibit "B" depicts the well site layout and its relation to the topography. The reserve pit will be lined with plastic sheeting of weight, quality and grade acceptable to the U.S.G.S. and Forest Service.

X. Plans for restoration of the surface.

The top soil will be stock piled on the northwest side of the reserve pit for re-distribution over the reshaped topography and the re-vegetation and surface restoration will be done in strict compliance with the Forest Service instructions. The commencement of the rehabilitation operations will be governed by the time of year that drilling operations are concluded, but in any case, completed within one year from date completion of well.

XI. Other Information

The topography of the immediate area of the drill site is depicted on Exhibit "B". The scattered trees are said to be Englemann Spruce. The soil at the proposed well site is approximately two feet deep and lays on top of igneous rock. The surface is used for grazing during the summer months. Surface ownership at the well location and all lands to be crossed are owned by the Federal Government.

An archaeological survey has been made of the drillsite and Borrow Area. A copy is attached as Exhibit "C".

XII. Lessee's or Operator's Representative

The following named individual will be responsible for assuring compliance with the approved surface use and operation plan.

Curtis Hancock
633 17th Street
Suite 1280
Denver, Colorado 80202
Office Phone: 303/534-0677
Home Phone: 303/985-5845

XIII. Certification

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Hunt's Service, Box 55, Huntsville, Utah 84734 and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

Name and Title

Lease

U-27/219

Well No. & Location #1 FEDERAL, SEC. 18, T318-R4E

Garfield Co., Utah

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

SAMEDAN Oil Corporation

PROPOSES TO DRILL AN OIL AND

GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 8500 FT. TD. 2) TO CONSTRUCT A

DRILL PAD 150 FT. X 300 FT. AND A RESERVE PIT 150 FT. X 175 FT.

3) TO CONSTRUCT 18 FT. X 1 MILES ACCESS ROAD AND UPGRADE FT.

X MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

SEE MULTI-POINT PLAN FOR ROAD IMPROVEMENTS

2. Location and Natural Setting (existing environmental situation)

THE PROPOSED WELL SITE IS APPROX. 23 MILES SOUTH EAST OF BICKNELL, UTAH NEAR THE TOP OF BOULDER MOUNTAIN. THE AREA IS GENERALLY A FLAT MESA WITH SMALL ROLLING HILLS, SCATTERED SHALLOW RESERVOIRS (NATURAL) AND NUMEROUS SURFACE LAVA BOULDERS. THERE ARE A FEW SCATTERED SPRUCE TREES NEAR THE WELL SITE NONE OF WHICH WILL REQUIRE REMOVAL TO CONSTRUCT LOCATION & ACCESS ROAD. THE SURFACE IS USED FOR GRAZING DURING THE LATE SUMMER.

VEGETATION IS NATIVE GRASSES.

WILDLIFE FOUND IN THE AREA ARE MULE DEER, BLACK BEAR, COYOTE'S, RABBITS, SMALL RODENTS & BIRDS. UTAH DEPT WILDLIFE RES. PLANS TO IMPORT ELK INTO THE AREA NEXT SUMMER.

THE ENTIRE ACCESS ROAD & LOCATION ARE WITHIN THE DIXIE NATIONAL FOREST AND ADMINISTERED BY THE DISTRICT ~~FOR~~ RANGE, TEASDALE, UTAH

THE ELEVATION @ THE PROPOSED SITE IS 11,120' AND IS USUALLY COVERED BY HEAVY SNOW OCT. - JULY. DRIFTING SNOW ALONG ACCESS ROAD COULD MAKE OPERATIONS IMPOSSIBLE EXCEPT DURING SUMMER MONTHS.

REFER TO USFS E.I.S. PREPARED FOR OIL GAS OPERATION.

State Oil & Gas

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSION FROM THE DRILLING RIG POWER UN AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

MODERATE

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6) WEATHER COULD POSSIBLY DETER OPERATIONS
AT ALMOST ANY TIME
(THUNDER SHOWERS & SNOW)

* IT IS PROPOSED TO CONSTRUCT LOCATION & UPGRADE ACCESS ROAD THIS FALL.
SNOW WILL BE REMOVED JUNE, 1977 TO ALLOW ROAD & LOCATION TO DRY PRIOR TO ENTRY JULY, 1977.

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) THE LOCATION (PROPOSED) IS CONSIDERED ACCEPTABLE FROM AN ENVIRONMENTAL STAND-POINT AND NO NEAR BY LOCATIONS COULD BE FOUND THAT WOULD JUSTIFY MOVING.

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM R ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6) Possible ~~also~~ weather conflicts

6. Determination

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

Date Inspected 9-10-76

Inspector B. G. [Signature]

[Signature]
U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: May 13 -
Operator: Squadan Oil Corp.
Well No: Federal #1
Location: Sec. 18 T. 31S R. #E County: Garfield

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

CHECKED BY:
Administrative Assistant [Signature]
Remarks: No other wells in this area
Petroleum Engineer PLD (K.O.)
Remarks:
Director [Signature]
Remarks:

*Cannot see reason
Topo. exception
is wanted. (I assume
the version for irregular
spacing is due to
topo contributions.)*

INCLUDE WITHIN APPROVAL LETTER:
Bond Required Survey Plat Required
Order No. Surface Casing Change to

*5/23/77 called for down he
suggested we approve well drilling.
subsequently, check the location of
then meet w/ that sign in order*

Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site
O.K. Rule C-3 O.K. In _____ Unit
Other:

Letter Written/Approved
Approved as per CB7-5-23-77



SAMEDAN OIL CORPORATION
SUITE 1280
THE FIRST OF DENVER PLAZA BUILDING
633 - 17th STREET
DENVER, COLORADO 80202

May 18, 1977

303 534-0677

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

Re: Boulder Mountain Prospect
Garfield County, Utah

Gentlemen:

In regard to your telephone call to this office on this date, please be advised that Samedan Oil Corporation respectfully requests an exception to Rule C-3 for the following reasons. Due to the absence of trees in this particular area this well site was chosen. Also the Forest Ranger requested that this be the location. Samedan owns all the acreage within 660 feet of the proposed drillsite.

Yours very truly,

SAMEDAN OIL CORPORATION

Steve R. Messer

Steve R. Messer
Division Engineer

SRM/kk

CIRCULATE TO:

- DIRECTOR _____
- PETROLEUM ENGINEER _____
- MINE COORDINATOR _____
- ADMINISTRATIVE ASSISTANT _____
- ALL _____

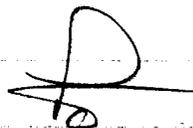
RETURN TO *Scherer*
FOR FILING

May 20, 1977

To: Jack Feight

Re: Samson OGE
Boulder Mtn.

Attached is the letter from Samson. I still cannot accept their findings, so I'll pass it on to you for approval.



5-23-77 Ok, as per OGE's discussion
with Gordon Harverson - SW

May 23, 1977

Samedan Oil Corporation
633 17th Street
Suite 1280
Denver, Colorado 80202

Re: Well No. Federal #1
Sec. 18, T. 31 S, R. 4 E,
Garfield County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), 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:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-017-30073.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

/sw
cc: U.S. Geological Survey

Big

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

SUBMIT IN TRIPLICATE*
(Other 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. U-27619
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <i>P</i>
1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Temporarily Abandoned		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Samedan Oil Corporation		8. FARM OR LEASE NAME Federal
3. ADDRESS OF OPERATOR 633-17th St., Ste.1280, Denver, Colorado 80202		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1871.41' FWL & 88.35' FNL of Section 18		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ABBA Section 18 T.31 S., R.4 E.
14. PERMIT NO. N.A.	15. ELEVATIONS (Show whether DF, RT, CR, etc.) FR-11,120	12. COUNTY OR PARISH Garfield
		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 <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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Temporarily Abandoned <input checked="" 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.)*

Operations on the subject well were suspended on 11-10-77 due to winter conditions on top of Boulder Mountain. A short report of operations is shown below. Samedan will commence operations when weather permits in June or July of 1978. Please let us know if any more forms are required at this time.

20" csg. set at 1000' w/cmt. to surface.
13 3/8" csg. set at 2954' w/1000 sx.
7" liner cmtd. from top to btm. (2817'-5665')
5" liner cmtd. from top to btm. (5442'-7995')
T.D. 8718'
Perfs. at 7110'-7144'. No fluid entry during testing.
CIBP set at 7087'.
Perfs. at 7028'-7066'. No fluid entry during testing.
Left 2% KCl water standing in well at 4000' and closed and locked wellhead.

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

SIGNED *Steve R Messer* TITLE Division Engineer DATE 12-19-77
Steve Messer

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)

FIELD OFFICE
U-27619

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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Samedan Oil Corporation		8. FARM OR LEASE NAME Boulder Mountain Fed.
3. ADDRESS OF OPERATOR 633-17th St., St. 1280, Denver, Colorado 80202		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1871.41' FWL & 88.35' FNL of Section 18		10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO. Not Available		11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA Section 18 T. 31 S., R. 4 E.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 11,120'		12. COUNTY OR PARISH 13. STATE Garfield 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 type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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 a log pertinent to this work.)

Wellbore plugging operations were completed on 7-29-78.
Plugs were set as follows:

1. 7082'-5" CIBP
2. 6109'-5" CIBP w/10' cmt. on top.
3. 5600'-5" CIBP w/10' cmt. on top.
4. 5300'-7" CIBP w/10' cmt. on top.
5. 2700'-13 3/8" CIBP w/10' cmt. on top.
6. 500'-13 3/8" CIBP w/30 sx. cmt. on top.
7. Spotted 40 sx. of cmt. between 500' & 450' between 13 3/8" & 20" casing.
8. Spotted 10 sx. of cmt. at surface.

The casinghead was then cut off below surface and a cap and a dry hole marker welded to the 20" casing. The location, roads & pits are currently being restored to their original condition as per instructions from the forest service. We will then notify you when this work is completed.

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

SIGNED Steve R. Messer TITLE Division Engineer

DATE AUGUST 3, 1978

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLIC.

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5

3

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 Dry Hole

2. NAME OF OPERATOR
Samedan Oil Corporation

3. ADDRESS OF OPERATOR
633-17th St., Ste. 1280, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1871.41' FWL & 88.35' FNL of Section 18
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. Not Available DATE ISSUED ---

5. LEASE DESIGNATION AND SERIAL NO.
U-27619

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Boulder Mountain Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 18
T.31 S., R.4 E.

12. COUNTY OR PARISH
Garfield

13. STATE
Utah

15. DATE SPUDDED 6-5-77 16. DATE T.D. REACHED 10-24-77 17. DATE COMPL. (Ready to prod.) 7-29-78 18. ELEVATIONS (DF, REB, RT, OR, ETC.)* GR 11,120' 19. ELEV. CASINGHEAD ---

20. TOTAL DEPTH, MD & TVD 8718 21. PLUG, BACK T.D., MD & TVD 7995 22. IF MULTIPLE COMPL., HOW MANY* --- 23. INTERVALS DRILLED BY --- ROTARY TOOLS 0-8718 CABLE TOOLS ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None

25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL, CNL-FDC w/GR, Sonic & GR Neutron

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
20"	94	541	26"	900 sx. Class B w/2%	CC- 0
13 3/8"	68	2954	17 1/2"	1000 sx. Class G w/2%	CC- 0
9 5/8"	40	2898-4126	12 1/4"	2375 sx. Class G	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7"	2817	5665	700	N.A.
5"	5442	7995	720	N.A.

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
---	---	---
---	---	---

31. PERFORATION RECORD (Interval, size and number)
7110-20 & 7136-44: 44% 1 SPF w/3 1/8" csg gun; 7028-38, 7048-56 & 7060-66: 1 SPF w/same gun; 6030-38 & 6040-48: 2 SPF w/3 1/8" csg. gun.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7110-7144	2000 gal of 15% acid
7082	5" CIBP
7028-7066	500 gal of 15% acid
6109	5" CIBP & 10 ft. of cmt.

33.* PRODUCTION (CONTINUED ON BACK)

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. _____ WATER—BBL. _____ GAS—BBL. _____ GAS-OIL RATIO _____

FLOW. TUBING PRESS. _____ CASING PRESSURE _____ CALCULATED 24-HOUR RATE _____ OIL—BBL. _____ WATER—BBL. _____ GAS—BBL. _____ OIL GRAVITY-API (CORR.) _____

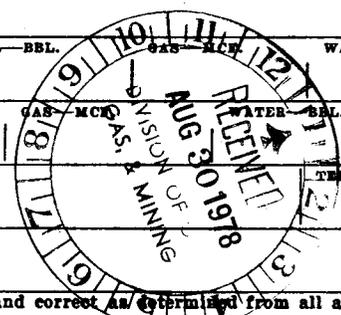
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
All logs, geological report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Steve R. Messer TITLE Division Engineer DATE 8-3-78

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



INSTRUCTIONS

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

If not filed prior to the time this summary 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 PRESSURE, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	NAME
		MEAS. DEPTH	TRUE VERT. DEPTH
NO DST'S OR CORES.		SEE ATTACHED GEOLOGIC REPORT.	
DEPTH INTERVAL (MD) CONTINUED FROM 32:		ACID, SHOT, FRACTURE, CEMENT SQUEEZE	
5600'		5" CIBP w/10 ft. of cmt. on top.	
5300'		7" CIBP w/10 ft. of cmt. on top.	
2700'		13 3/8" CIBP w/10 ft. of cmt. on top.	
500'		13 3/8" CIBP w/30 sx. cmt. on top.	



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

I. DANIEL STEWART
Chairman

CHARLES R. HENDERSON
JOHN L. BELL
THADIS W. BOX
C. RAY JUVELIN

CLEON B. FEIGHT
Director

August 18, 1978

Samedan Oil Corporation
633-17th Street
Suite 1280
Denver, Colorado 80202

Will Paid in summer 78

Re: Well No. Federal #1
Sec. 18, T. 31S, R. 4E
Garfield County, Utah
January 1978-July 1978

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, & MINING

Tammy Edge
Typist

SAMEDAN OIL CORPORATION
SUITE 1280
THE FIRST OF DENVER PLAZA BUILDING
633 - 17th STREET
DENVER, COLORADO 80202

August 28, 1978

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116
ATTENTION: Ms. Tammy Edge

Re: Boulder Mountain Federal #1
Sec. 18, T.31 S., R.4 E.
Garfield County, Utah

Gentlemen:

As per your request of August 18, 1978 please find enclosed two (2) copies of Form 9-331 Sundry Notices and Reports on Wells and two (2) copies of Form 9-330 Well Completion Report for the above captioned well. If you have any questions, please advise.

Yours very truly,

SAMEDAN OIL CORPORATION


Steve R. Messer
Division Engineer

SRM/jl
Enclosures

