

*file*

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  
 Sohio Petroleum Company      307-237-3861

3. ADDRESS OF OPERATOR  
 P.O. Box 30, Casper, WY      82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 1149' FWL, 1208' FNL (NW/4, NW/4)  
 At proposed prod. zone  
 Same.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 4.5 miles from Woodruff, Utah

16. NO. OF ACRES IN LEASE  
 2558.72

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 Unspaced

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

19. PROPOSED DEPTH  
 ±17500'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6929' GR

22. APPROX. DATE WORK WILL START\*  
 January 1, 1984

5. LEASE DESIGNATION AND SERIAL NO.  
 U25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 NA

7. UNIT AGREEMENT NAME  
 Birch Creek (proposed)

8. FARM OR LEASE NAME  
 Birch Creek

9. WELL NO.  
 14B

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 14, T9N, R6E

12. COUNTY OR PARISH  
 Rich

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 17½"         | 13-3/8"        | 54.5#           | 1000'         | ±2400 SX.          |
| 12½"         | 9-5/8"         | 40, 36#         | 6800'         | ±1500 SX.          |
| 8½"          | 7"             | 32, 29, 35#     | 17500'        | ±1300 SX.          |

ATTACHMENTS:

- #1 Drilling Program
- #2A, 2B Pressure Equipment Diagrams
- #3 Surface Use Plan
- #4 Surveyor's Plat
- #5 USGS Quadrangle
- #6 Cuts & Fill Diagram
- #7 Well Site Plat

Designation of Operator\*  
 H2S Contingency Plan\*

\*Will be mailed separately, as soon as completed.

**RECEIVED**  
 FEB 08 1984  
 DIVISION OF OIL, GAS & MINING

1983 DEC -5 AM 9:33  
 DEPT. OF INTERIOR  
 BUREAU OF LAND MANAG.  
 RECEIVED  
 UTAH STATE OFFICE

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.

SIGNED W. H. Ward TITLE District Manager DATE 12/1/83

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY Jack Peterson TITLE Acting District Mgr DATE 1/15/84  
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

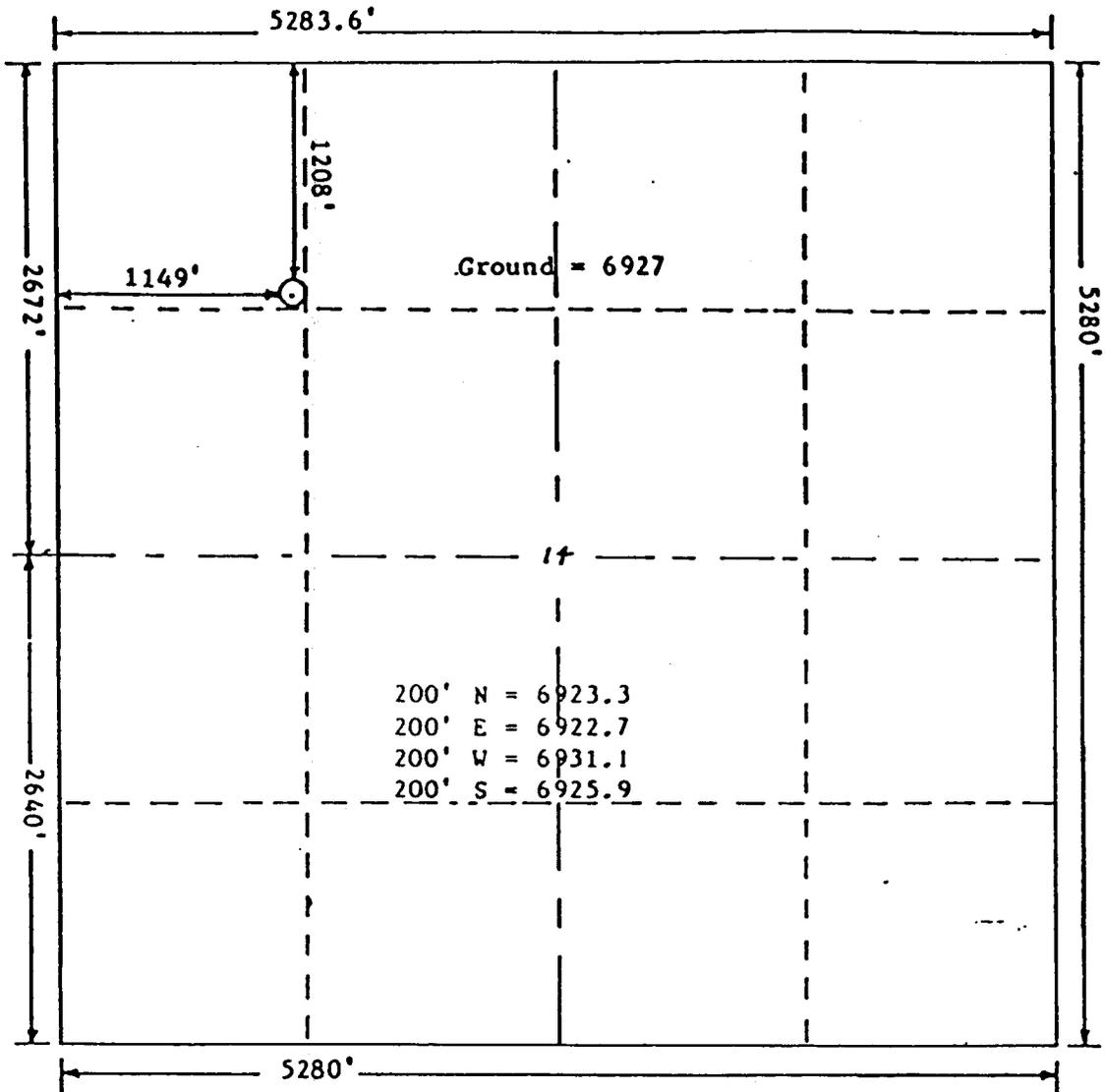
FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

\*See Instructions On Reverse Side

UTAH STATE Oil + Gas Commission



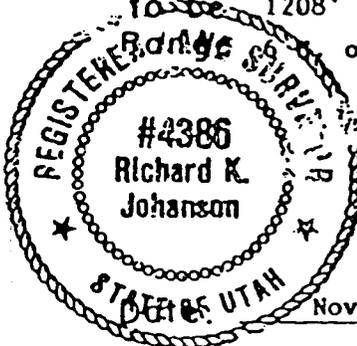
R. 6 E



T. 9N

Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**  
 has in accordance with a request from Bill Ward  
 for Sohio Petroleum Co.  
 determined the location of Sohio Birch Creek 14-B  
 to be 1208' FNL. & 1149' FWL. Section 14 Township 19N  
 of the Salt Lake Base & Meridian  
 Rich County, Utah.



I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of  
 #14-B Sohio Birch Creek.

Nov. 7, 1983

*R. Johanson*  
 Licensed Land Surveyor No. 4386  
 State of Utah.



SOHIO PETROLEUM COMPANY  
EXPLORATION AND PRODUCTION

P. O. BOX 30  
CASPER, WYOMING 82602

December 1, 1983  
WHW: 2

Bureau of Land Management  
University Club Bldg.  
136 East South Temple  
Salt Lake City, UT 84111

Attn: Chief, Branch of Fluid Minerals

Re: Application for Permit to Drill  
Birch Creek 14B  
Sec. 14, T9N, R6E  
Rich County, Utah  
U25112

Attached you will find the original and one copy of the Application for Permit to Drill the Birch Creek 14B well. One copy has been mailed directly to the District office. Also attached is a copy of the request for an exception to Rule C-3 for spacing.

The Designation of Operator forms and the H<sub>2</sub>S Contingency Plan will be mailed separately. Please advise if further information is needed to process this application.

Sincerely,

Original Signed By:

W.H. Ward  
District Manager

XWTR/jc

cc: District Manager, BLM  
Division Oil, Gas and Mining  
J.H. Walters  
T. Rooney  
File

Attachment #1  
 Drilling Program  
 Sohio Petroleum Company  
 Birch Creek 14B

1149' FWL, 1208' FNL  
 Sec. 14, T9N, R6E  
 Rich County, Utah

1) Geology: Surface, Markers and Possible Contents

| Wasatch     | Surface | Water |
|-------------|---------|-------|
| Twin Creek  | 850'    | NA    |
| Phosphoria  | 9300'   | gas   |
| Wells       | 9900'   | gas   |
| Three Forks | 12300'  | gas   |
| Fish Haven  | 14200'  | gas   |
| Subthrust   | 17000'  | gas   |
| T.D.        | 17500'  |       |

2) Proposed Casing Program:

SF tension - 1.6/1.3  
 Collapse - 1.125  
 Burst - 1.25

| Hole | Depth        | O.D.    | Weight | Grade | Joint | New/Used |
|------|--------------|---------|--------|-------|-------|----------|
| 17½" | 0-1000'      | 13-3/8" | 54.5#  | K-55  | ST&C  | New      |
| 12½" | 0-5000'      | 9-5/8"  | 40#    | K-55  | LT&C  | New      |
|      | 5000-6800'   | 9-5/8"  | 36#    | K-55  | ST&C  | New      |
| 8½"  | 0-2000'      | 7"      | 32#    | S0090 | Butt. | New      |
|      | 2000-6000'   | 7"      | 32#    | S0090 | LT&C  | New      |
|      | 6000-12000'  | 7"      | 29#    | L-80  | LT&C  | New      |
|      | 12000-16000' | 7"      | 32#    | L-80  | LT&C  | New      |
|      | 16000-17500' | 7"      | 35#    | L-80  | LT&C  | New      |

Conductor Casing - 30" conductor will be set @ ±60' and cemented to surface.

Proposed Cement Program:

Cement Program \*Volume and additions will change subject to conditions encountered during drilling operations.

Surface (13-3/8") 0-1000'  
 Lead - 1000 sx. light + 3% CaCl<sub>2</sub> + 10#/sx. gilsonite + ½#/sx. flocele  
 Tail - 1400 sx. 'H' + 2% CaCl<sub>2</sub> + ¼#/sx. flocele

Protection (9-5/8") 0-6800'  
 Lead - 1000 sx. light + 2% CaCl<sub>2</sub> + 10#/sx. gilsonite + ½#/sx. flocele  
 Tail - 500 sx. 'H' + .1% HR-5 + ¼#/sx. flocele

Production/Protection (7") 0-17,500'  
 Lead - 800 sx. light + .75% CFR-2 + .1% HR-5 + ¼#/sx. flocele  
 Tail - 500 sx. H + .75% CFR-2 + .4% Halad 24 + ¼#/sx. flocele

3) Pressure Control Equipment - See Attachments 2A and 2B

After NU BOP's:

1. Ram type preventers shall be tested to 5000 W.P.
2. Annulus preventers shall be tested to 3000 psi.

Pipe rams shall be operated every 24 hours. The blind rams shall be operated after each trip.

Blowout prevention drills shall be held by each crew at least every week and the drills must be posted in the tour reports.

Stack will be fully tested after any use under pressure or if it is broken down at any time. Tests to 100% of working pressure are to be conducted every 30 days.

The manually operated hydraulic controls will be located on the rig floor and at a ground remote station. The accumulator system will be 3000 psi working pressure with a minimum of 120 gallons.

4) Type and Characteristics of Circulating Muds:

| <u>Depth</u> | <u>Type</u>                            | <u>Weight</u><br><u>(#/gal.)</u> | <u>Viscosity</u><br><u>(Sec/Ot)</u> | <u>Fluid</u><br><u>Loss (cc's)</u> |
|--------------|--|----------------------------------|-------------------------------------|------------------------------------|
| 0-17500      | Low Solids-<br>Slightly Dispersed/Lig. | 8.8-9.2                          | 30-50                               | 10 or less                         |

An adequate supply of sorptive materials will be on hand in the event of unanticipated downhole problems. Weight additives will be on location as required.

5) Auxillary Equipment

Kelly cock, stabbing valve, pit level monitor, mud logging unit and gas detector from surface to total depth. A mud logger will be on location from the start of operations.

6) Testing, coring and Logging Program:

A) Drill Stem Tests:

DST's will be run per conditions encountered while drilling the well. Potential tests below ±9000' are anticipated.

B) Cores:

Cores will be run per conditions encountered while drilling the well. Potential tests below ±9000' are anticipated.

Testing, Coring, and Logging Program - (Cont'd)

C) Logs

|               |             |            |
|---------------|-------------|------------|
| DIL/SFL/Sonic | 0-1000      |            |
| DLL/MSFL      | 1000-6800   | 17500-6800 |
| FDC/CNL/GR    | 1000-6800   | 17500-6800 |
| GR/BH Sonic   | 1000-6800   | 17500-6800 |
| LDT/CNL/NGT   |             | 17500-6800 |
| Dipmeter      | 1000-6800   | 17500-6800 |
| VSP           | 17500-Surf. |            |

D) Stimulation and completion procedures will be determined after evaluation of the drilling and testing information. If these procedures are deemed necessary, they will be submitted via a Sundry Notice for approval.

7) Anticipated Abnormal Conditions

No abnormal pressures or temperatures are expected. H<sub>2</sub>S gas is possible below 8900' (top of Dinwoody formation). An H<sub>2</sub>S contingency plan has been developed and will be submitted upon its receipt.

8) The anticipated spud date is January 1, 1984. Operations should last 175 days.

Rotating Head  
OPTIONAL

ANNULAR PREVENTER  
13-5/8" x 3000#  
H<sub>2</sub>S TRIM

BLIND RAMS  
13-5/8" x 5000#  
H<sub>2</sub>S TRIM

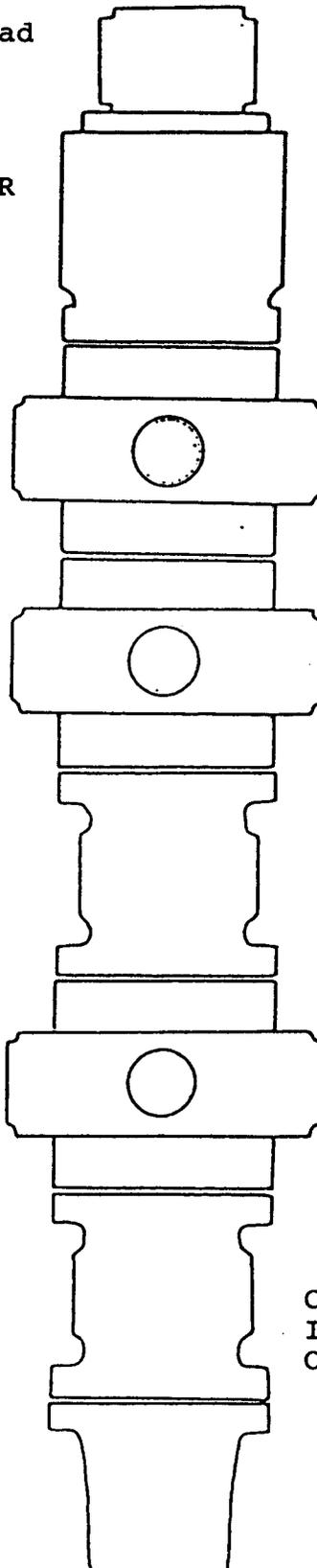
PIPE RAMS  
13-5/8" x 5000#  
H<sub>2</sub>S TRIM

DRILLING SPOOL  
13-5/8" x 5000#  
w/5000# OUTLETS  
H<sub>2</sub>S TRIM

PIPE RAMS  
13-5/8" x 5000#  
H<sub>2</sub>S TRIM

DRILLING SPOOL  
(OPTIONAL)

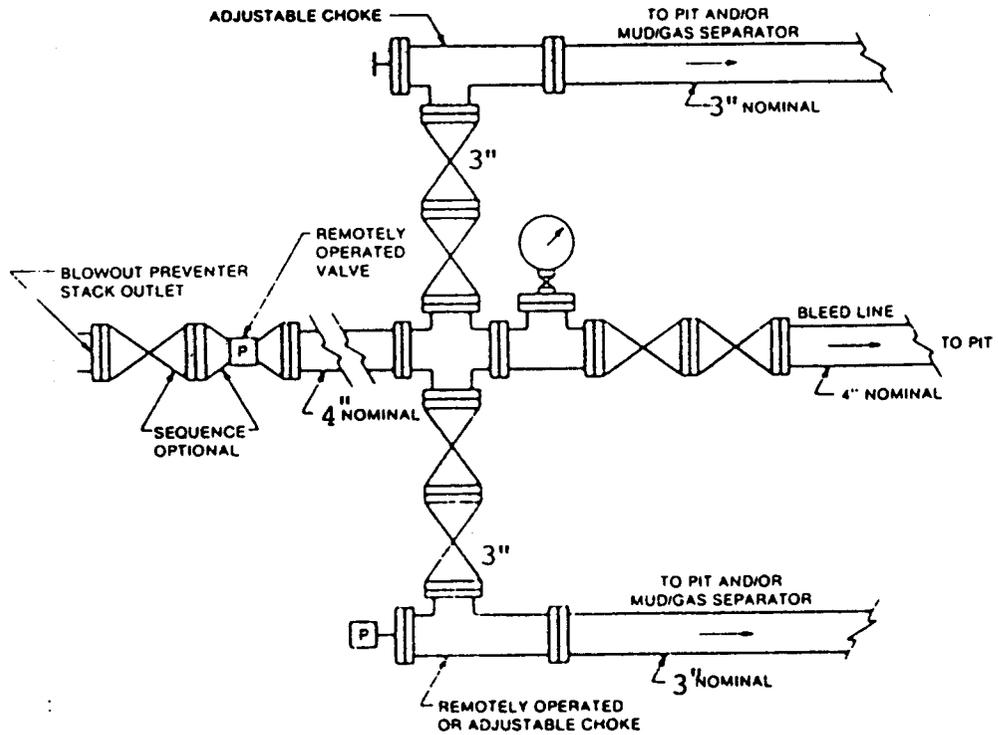
WELLHEAD



CASING SPOOL TO BE USED  
IF ANY INTERMEDIATE STRING  
OF CASING IS SET.

NOTE: ALL CONNECTIONS FLANGE TYPE, H<sub>2</sub>S TRIM.

SOHIO PETROLEUM COMPANY  
BIRCH CREEK 14-B  
RICH COUNTY, UTAH  
ATTACHMENT 2A



Typical choke manifold assembly for 5M rated working pressure service

BIRCH CREEK 14B  
RICH COUNTY, UTAH

ATTACHMENT 2B

Attachment #3  
Surface Use Plan  
Sohio Petroleum Company  
Birch Creek 14B

1149' FWL, 1208' FNL  
Section 14, T9N, R6E  
Rich County, Utah  
U-25112

1) Existing Roads

- a) Surveyor's Plat - Attachment #4.
- b) Route and Distance - Attachment #5.
- c) Plans for improvements and/or maintenance of existing roads - existing roads need no improvements and will be maintained in their current or better condition.

2) Planned Access Road - Attachment #5

- a) Approximately 1.25 miles of construction and upgrading is planned to access the location after turning off State Highway #39. An existing trail will be followed for the first mile with minor relocation of a portion of that trail to raise it out of the drainage. Four culverts are planned (18" minimum) along the road (see Attachment #5). One cattleguard will be installed at the turnoff from Highway 39 to replace an existing gate. The access road will be ditched along the side to insure proper drainage and the surface will be gravelled. Maximum grade will be 8%.
- b) No turnouts, fence cuts, or gates are necessary.

3) Existing Wells Within a One Mile Radius:

Water - 1, Injection - 0, Disposal - 0, Drilling - 0, Producing - 0.

4) Existing or Proposed Facilities if Well is Productive:

- a) Existing - None.
- b) Proposed - A location plat identifying proposed facilities has not been included. Any discovery in this area would most likely require further drilling to determine the extent of the discovery prior to placement of production facilities. Therefore, it is unknown at this time what facilities would be installed or their location. Prior to the placement of production facilities, an accurate plat will be submitted for approval.

5) Location and Type of Water Supply

- a) The primary source of water will be from a well to be drilled on location. A temporary Application to Appropriate Water will be filed with the State Engineer's office.
- b) A secondary source of water will be hauled from Woodruff Creek in the event the water well is not sufficient. No federal acreage will be crossed except for the access road to the location. Necessary approvals will be secured.

6) Construction Materials:

- a) Native soil will be used in the construction of the access road and location. 12" of topsoil, if available, will be stockpiled prior to construction operations.
- b) Gravel will be hauled in from an outside source to be arranged by the dirt contractor.

7) Methods for Handline Waste Disposal:

- a) Cuttings will be contained and buried in the reserve pit.
- b) Drilling fluids will be contained in the reserve pit and allowed to evaporate prior to backfilling the pit.
- c) All test fluids will be contained in test tanks and hauled off location by service company.
- d) Sewage will be contained in a covered pit on location and backfilled upon completion.
- e) Garbage and other waste materials will be handled in a trash/burn pit which will be entirely enclosed with wire mesh and buried upon completion. When necessary, garbage will be hauled to the Woodruff landfill.
- f) Upon completion, all unnecessary materials will be hauled off location.

8) Ancillary Facilities - None.

9) Well Site Layout

- a) Cuts and Fills - Attachment #6.
- b) Well Site Facilities and Rig Orientation - Attachment #7.
- c) The reserve pit will be lined if rock or gravel is encountered.

10) Plans for Reclamation

a) Well Site

If this well is productive, those portions of the pad not required for operations will be recontoured and reseeded as soon as possible.

Upon abandonment the reserve pit will be completely fenced and any remaining oil will be skimmed from the surface. Waste disposal will be handled as outlined in #7.a-g. All pits and holes will be backfilled.

Plans for Reclamation - (Cont'd)

a. Well Site - (Cont'd)

When the reserve pit fluids have evaporated, the location will be restored to its approximate original contour. Topsoil will then be replaced and the seed mix recommended by the BLM will be applied. The entire well site will be fenced until the new vegetation has established itself.

b. Access Road

The .5 mile of newly constructed access road will be re-shaped to its approximate original contour. Topsoil will be replaced and either seed or tube stock will be used to re-establish vegetation. The portion of access road which was upgraded and gravelled prior to onset of drilling will be left in its upgraded condition.

c. Other

Initial reclamation efforts will commence during the 1984 field season. Completion will be as soon as possible, dependent upon production or abandonment and the length of each field season.

- 11) Surface Owner - USA: Managed by Bureau of Land Management.
- 12) Other: Request is made for a variance to the BLM Management Plan Directive which designates the area surrounding this proposed location as critical deer winter range and includes a stipulation of no surface occupancy between November 15 and April 30.

The following special considerations will be made during drilling operations:

- 1) Shift changes will be scheduled or otherwise arranged so as to not interfere with the most active periods for the deer herd. (Specific schedules or other arrangements will be agreed on by BLM, Sohio, and the drilling contractor).
- 2) Other access road traffic will be restricted during the most active periods for the deer herd. (Specific times will be agreed on by BLM and Sohio).
- 3) There will be strict enforcement so that no dogs, firearms, snowmobiles, or off-road travel by personnel associated with drilling operations will occur.
- 4) Sohio Petroleum Company will provide funding for a study to determine what effect drilling operations may produce within the deer herd. This will consist of 6 hours of helicopter time for a BLM employee at the rate previously outlined by the BLM.

Other - (Cont'd)

5) If other considerations become necessary, they will be discussed and agreed to by both BLM and Sohio, in writing, prior to their inception.

13) Operator's Representative and Certification

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 currently 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 Sohio Petroleum Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

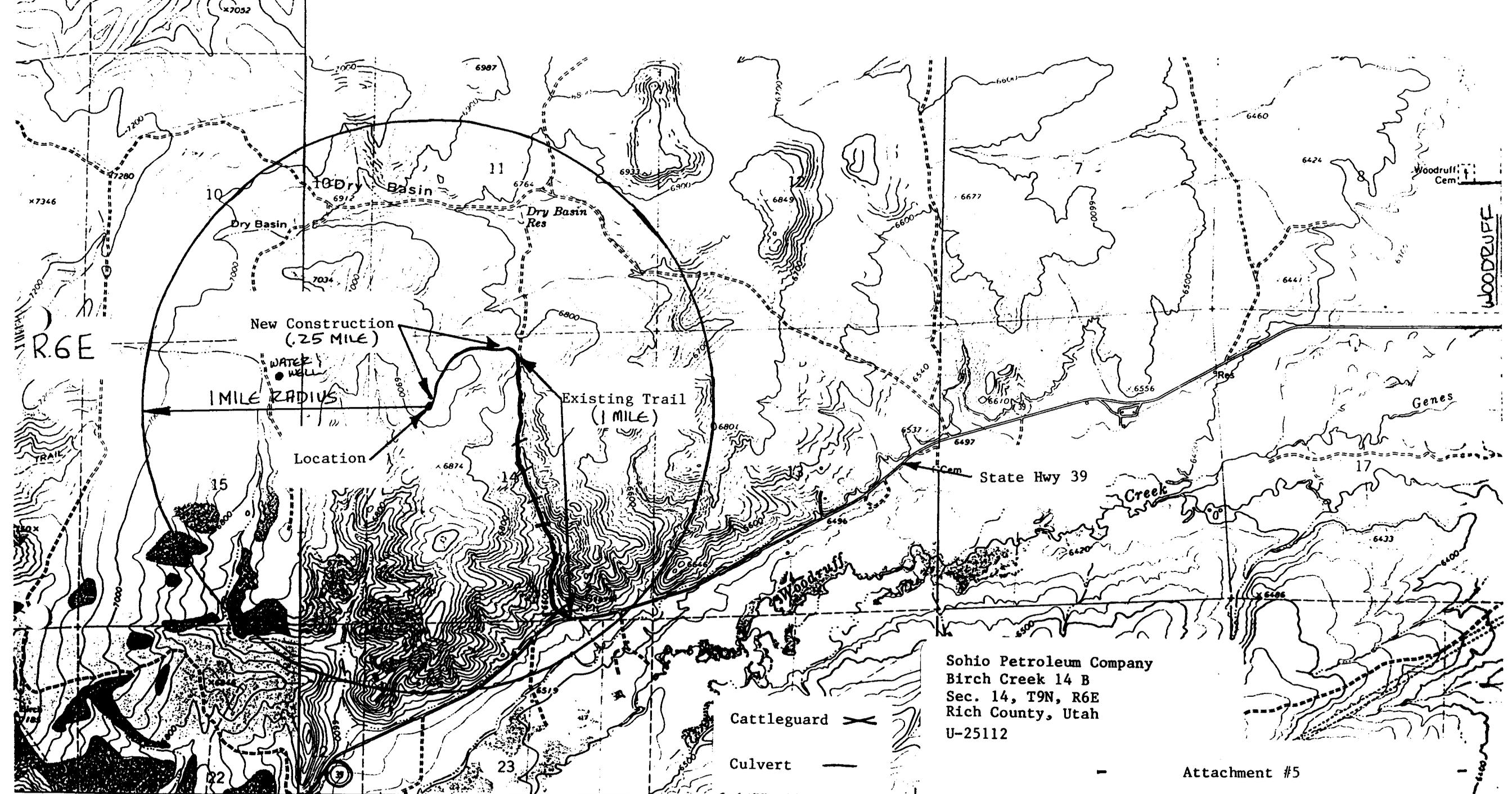
This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Original Signed By:

\_\_\_\_\_  
W.H. Ward  
District Manager

\_\_\_\_\_  
Date

12-2-83



Sohio Petroleum Company  
 Birch Creek 14 B  
 Sec. 14, T9N, R6E  
 Rich County, Utah  
 U-25112

Cattleguard   
 Culvert 

Attachment #5

UNITED STATES GEOLOGICAL SURVEY, RESTON, VIRGINIA—1981  
 1:24,000

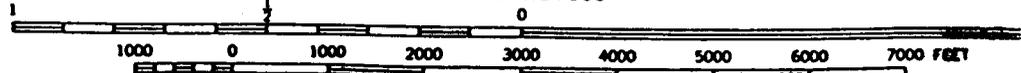
111° 15' 111° 15' 111° 15' 111° 15' 111° 15'  
 2 070 000 FEET  
 JUNTSVILLE 45 MI.  
 Mapped, edited, and published by the Geological Survey

R 6 E 12'30" R 7 E

(INEPONSET RESERVOIR NW)  
 3766 1 NW  
 SCALE 1:24000

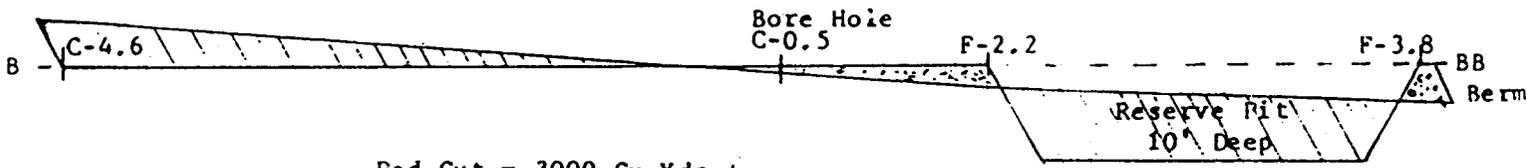
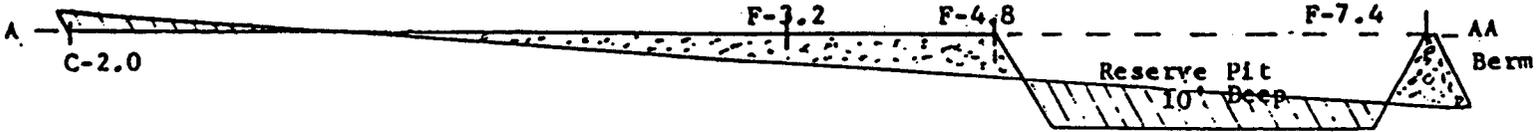
ROAD CLASSIFICATION  
 3y.  Light-duty road, hard or improved surface

Control by USGS and USC&GS  
 Topography by photogrammetric methods from aerial

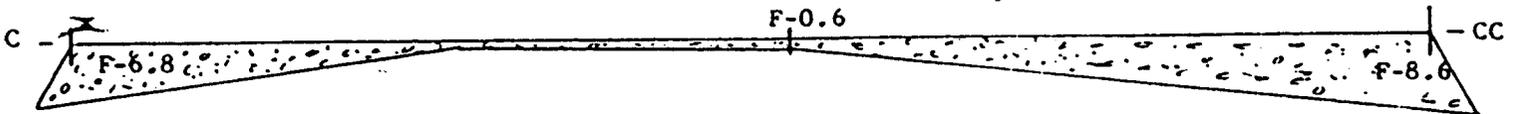


SOHIO PETROLEUM CO.  
 Sohio Birch Creek 14-B  
 1208' FN. & 1149' FW.  
 14-19N-6E. Rich County, Utah

CROSS SECTIONS

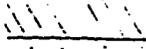


Pad Cut = 3000 Cu Yds. +  
 Pit Cut = 4400 Cu Yds. +  
 Fill = 8400 Cu. Yds. +



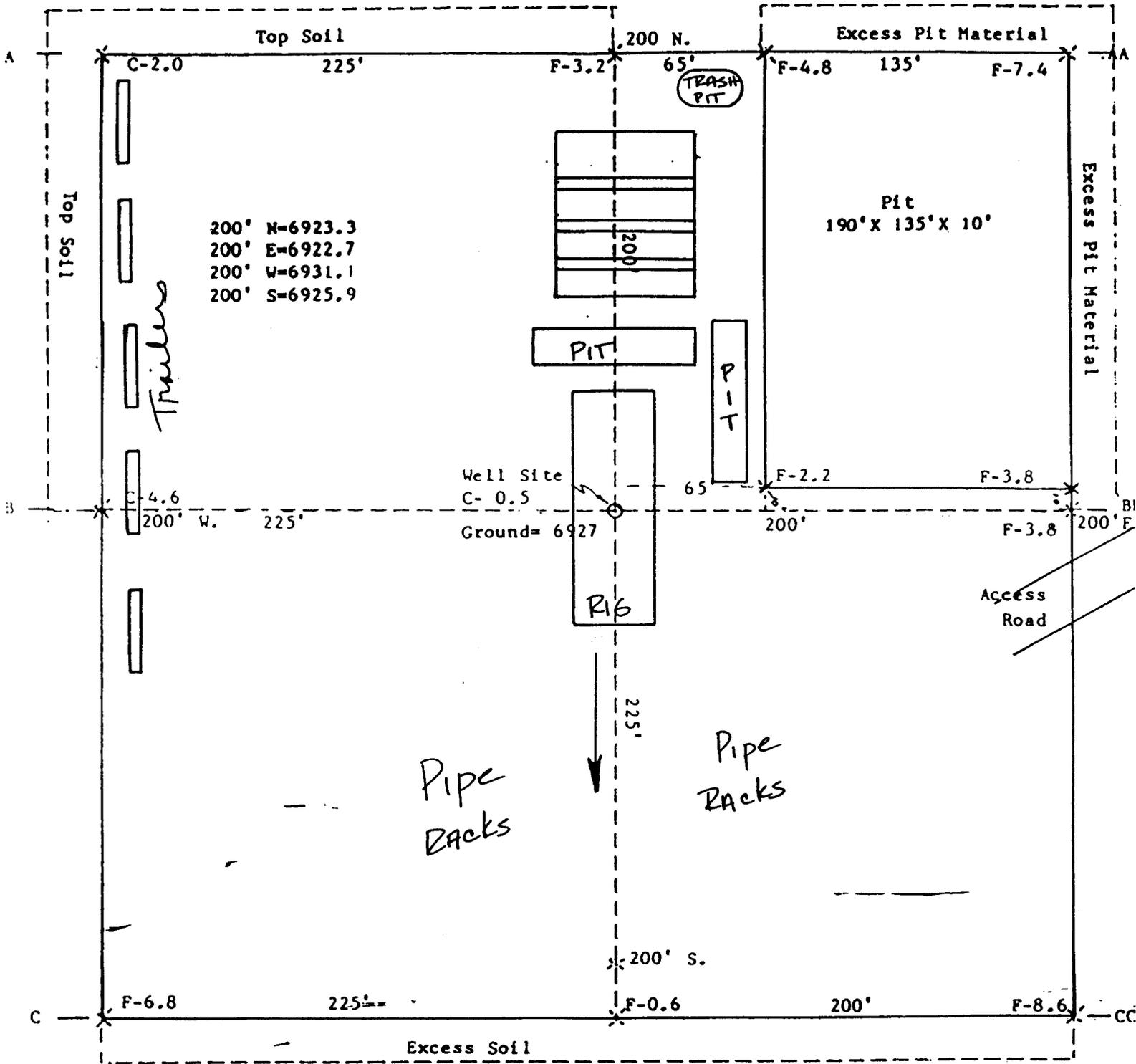
Scale:  
 Horiz. 1"=60'  
 Vert. 1"=20'

Typical Section

Cut   
 Fill 

Prepared by:  
 R. Johanson  
 Powers Elevat  
 Nov. 7, 198

SOHIO PETROLEUM CO.  
 Sohio Birch Creek 14-B  
 1208' FN & 1149' FW.  
 14-19N-6E. Rich, Utah.



Prepared by:  
 R. Johanson  
 Powers Elevation



**SOHIO PETROLEUM COMPANY**  
EXPLORATION AND PRODUCTION

P. O. BOX 30  
CASPER, WYOMING 82602

December 1, 1983

WHW: 3

*[Faint, illegible stamp]*

DIVISION OF  
OIL, GAS & MINING

Norm Stout  
Division Oil, Gas and Mining  
4241 State Office Bldg.  
Salt Lake City, UT 84114

Re: Rule C-3 Exception Request  
Birch Creek 14B  
1149' FWL, 1208' FWL  
Sec. 14, T9N, R6E  
Rich County, Utah

Dear Mr. Stout:

Sohio Petroleum Company proposes drilling the Birch Creek 14B well at the above referenced location. This location does not conform to the spacing regulations as outlined in Rule C-3 of the Utah Oil and Gas Conservation General Rules and Regulations. Therefore, an Exception to Rule C-3 is being requested for the following reasons:

- 1) Seismic data indicates this location is structurally preferable and will provide the best chance of encountering the zones of interest. An alternate location, one that conformed with statewide spacing rules, may not provide the desired results.
- 2) From an environmental standpoint, this unorthodox location will minimize impact on surface features and drainage patterns due to its positioning on a relatively flat knob.

This same lease extends more than 660' from this proposed location in all directions and is controlled by Sohio Petroleum Company. Please advise if further information is required to process this Exception Request and the attached APD.

Sincerely,

*W.H. Ward*

W.H. Ward  
District Manager

*TR/jc*

cc: BLM, Salt Lake City  
J.H. Walters  
T. Rooney  
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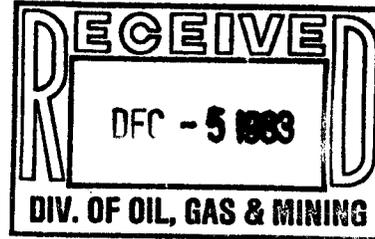
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 ✓ H<sub>2</sub>S Contingency Plan\*

\*Will be mailed separately, as soon as completed.

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 Original Signed By      TITLE District Manager      DATE 12/1/83  
W.H. Ward

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

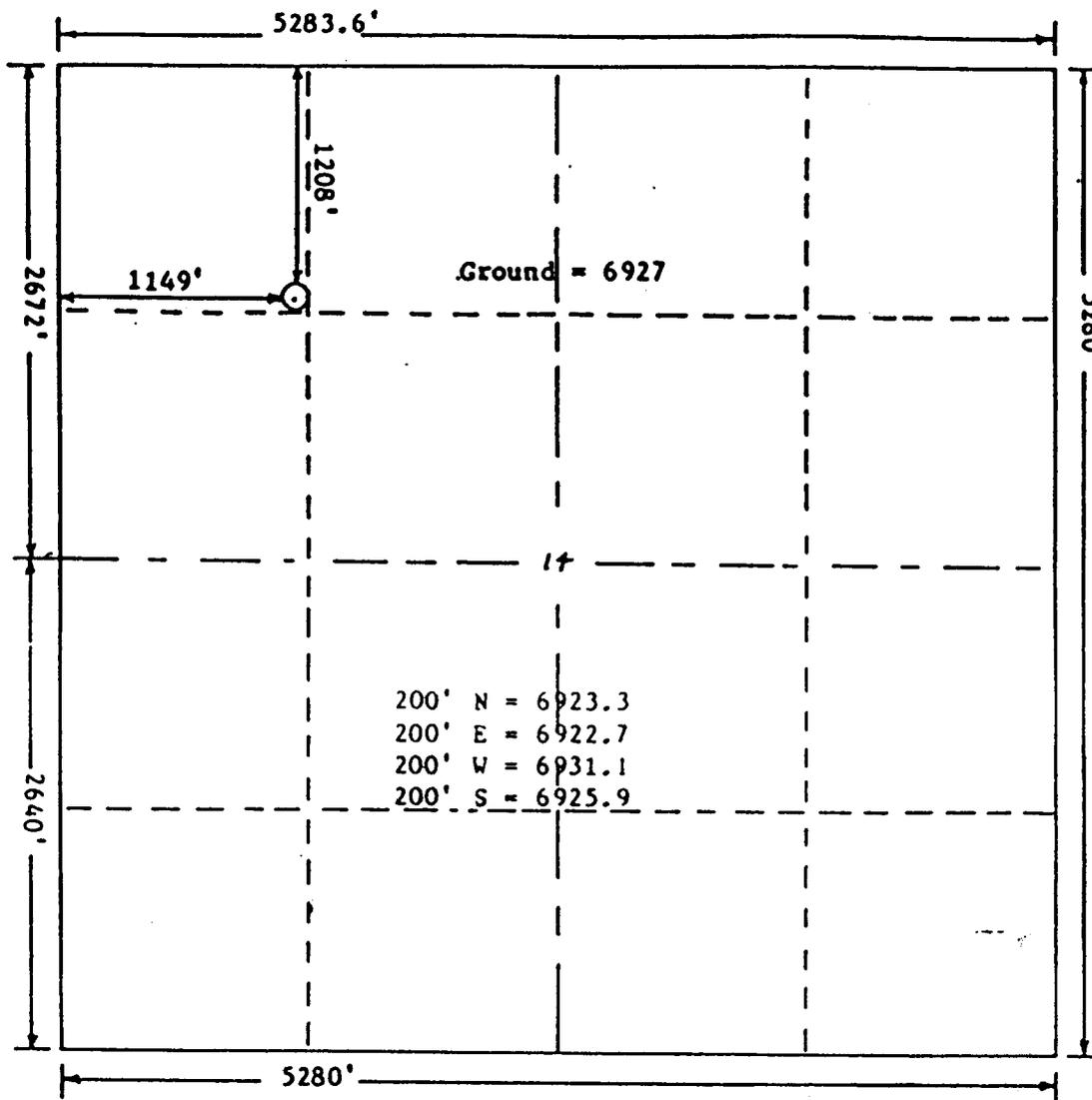
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

*C-3-M*  
*12-7-83*



R. 6 E

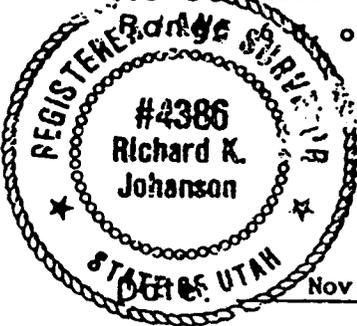


T. 9N

200' N = 6923.3  
 200' E = 6922.7  
 200' W = 6931.1  
 200' S = 6925.9

Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**  
 has in accordance with a request from Bill Ward  
 for Sohio Petroleum Co.  
 determined the location of Sohio Birch Creek 14-B  
 to be 1208' FNL. & 1149' FWL. Section 14 Township 19N  
 of the Salt Lake Base & Meridian  
 Rich County, Utah.



I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of  
 #14-B Sohio Birch Creek.

Nov. 7, 1983

*R. Johanson*  
 Licensed Land Surveyor No. 4386  
 State of Utah.

OPERATOR SOHIO PETROLEUM CO

DATE 12-7-83

WELL NAME BIRCH CREEK 14 B

SEC NW NW 14 T 9N R 6E COUNTY RICH

43-033-30042  
API NUMBER

FED  
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

Because of the cost and risk in drilling this deep wildcat well, and because efforts are being made to utilize the exception location is approved without primary evidence of geological data.

no gas wells within 4960'

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

DATE: 12-7-83

BY: [Signature]

CHIEF PETROLEUM ENGINEER REVIEW:

12/7/83

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT

c-3-a \_\_\_\_\_ CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

1) WATER

2) THE H<sub>2</sub>S CONTINGENCY PLAN SHALL BE SUBMITTED TO THIS OFFICE PRIOR TO SHOOTING IN ORDER TO VALIDATE THE APPROVAL TO DRILL.

3) VERIFICATION OF BOTTOM HOLE LOCATION SHALL BE SUBMITTED AT TIME OF COMPLETION.

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

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *FED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT PENDING

c-3-b

c-3-c

RECEIVED AND RECORDED  
OIL FIELD DIVISION OF  
MICHIGAN DEPARTMENT OF  
NATURAL RESOURCES

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.

VERIFY LEGAL AND SUFFICIENT DRILLING WATER

December 7, 1983

Sohio Petroleum Company  
P. O. Box 30  
Casper, Wyoming 82602

RE: Well No. Birch Creek 14B  
MWN Sec. 14, T. 9N, R. 6E  
1208' FWL, 1149' FWL  
Rich County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. The following stipulations should be noted: (1) Prior to spudding, a copy of the Utah Division of Water Rights (Phone No. 801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void. (2) The H<sub>2</sub>S contingency plan shall be submitted to this office prior to spudding in order to validate approval to drill. (3) Verification of bottom hole location shall be submitted at time of completion.

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

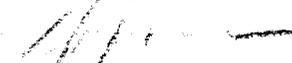
RONALD J. FIRTH - Chief Petroleum Engineer  
Office: 533-5771  
Home: 571-6068

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 43-033-30042.

Sincerely,

  
Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Branch of Fluid Minerals  
Encl.

**A HYDROGEN SULFIDE SAFETY  
CONTINGENCY PROGRAM**

**for**

**SOHIO PETROLEUM COMPANY  
Birch Creek 14-B  
Sec. 14 T9N R6E  
Rich County, Utah**

**RECEIVED**

**DEC 10 1980**

**DIVISION OF  
OIL, GAS & MINING**



APPENDIX I

EMERGENCY PHONE NUMBERS

SOHIO PETROLEUM COMPANY

Birch Creek 14-B  
Sec. 14 T9N R6E  
Rich County, Utah

|  |                |
|--|----------------|
| Sheriff's Department, Rich County, Utah.....               | 801-793-2285   |
| Utah Highway Patrol.....                                   | 801-289-3122   |
| Evanston, Wyoming Hospital.....                            | 307-789-3636   |
| Evanston, Wyoming Police Department.....                   | 307-789-2141   |
| Wyoming Highway Patrol.....                                | 1-800-442-9090 |
| Uinta County Ambulance.....                                | 307-789-9032   |
| Life Flight Helicopter, Evanston, Wyoming.....             | 307-789-2141   |
| Life Flight Helicopter, LDS Hospital, Salt Lake City, UT.. | 801-321-1234   |
| U.S.G.S.....   | 801-524-4590   |

Bell H<sub>2</sub>S Safety

|                               |                     |
|-------------------------------|---------------------|
| Evanston, Wyoming Office..... | 307-789-4013        |
| John Richter, Manager.....    | 307-789-9083 (Res.) |
| Casper, Wyoming Office.....   | 307-266-1616        |
| Kim Brondum, Manager.....     | 307-265-5810 (Res.) |

APPENDIX II

RESIDENCES WITHIN A THREE MILE AREA

There are no residences within a three mile area.

APPENDIX III

SOHIO PETROLEUM COMPANY PERSONNEL

Main Office, Casper, Wyoming.....307-237-3861  
Bill Ward.....307-266-6387 (Res.)  
Dick Vassar.....307-265-2042 (Res.)  
Floyd Hoffer.....307-234-9465 (Res.)  
Steve Bryant.....307-235-5554 (Res.)  
Mark Pajack.....307-235-4515 (Res.)  
  
Denver Office.....303-595-3120  
John Sindlar.....303-595-8086 (Res.)  
Jack Walter.....303-694-9276 (Res.)

## CONTINGENCY AND EVACUATION PLAN

(This Plan Is Subject To Updating)

### 1. PURPOSE

The purpose of this plan is to safeguard the lives of the public, contract personnel and company personnel in the event of equipment failures or disaster during the drilling and completion in formations which may contain Hydrogen Sulfide Gas ( $H_2S$ ).

The operator has specified materials and practices for the drilling and completion of this well to protect the safety of all concerned. However, as a precautionary measure, this contingency and evacuation plan has been prepared to further assure the safety of all concerned should a disaster occur.

### 2. DESCRIPTION OF HYDROGEN SULFIDE GAS

$H_2S$  is colorless gas which smells similar to rotten eggs in low concentrations. In large concentrations or over long periods of exposure, the sense of smell may be paralyzed.  $H_2S$  is extremely toxic gas that must be treated with extreme care to prevent injury to people.

$H_2S$  is heavier than air (specific gravity = 1.19) and on still days, tends to accumulate in low places. This accumulation could build up and lead to dangerous concentrations. However, if the  $H_2S$  gas is warmer than air, it will tend to rise until cooled off and could affect workers above the escaping source.

The toxicity of  $H_2S$  gas is as follows:

| <u>Period of Exposure</u>               | <u>Parts <math>H_2S</math> Gas (ppm)</u> |
|---|--|
| Prolonged exposure - no adverse affects | 10 ppm                                   |
| Over one hour - could be hazardous      | 150 ppm                                  |
| Possibly fatal in less than 1/2 hour    | 300 ppm                                  |
| Fatal in a few minutes                  | 700 ppm                                  |

### 3. TREATMENT OF HYDROGEN SULFIDE POISONING

- Remove the patient to fresh air, call physician or ambulance if possible.
- If breathing is labored, use oxygen resuscitator. Administer oxygen until physician is available even if person continues to breath on his own.

3. TREATMENT OF HYDROGEN SULFIDE POISONING (Continued)

- c. If breathing has ceased, administer mouth-to-mouth resuscitation until victim is breathing on his own. If breathing is labored, administer oxygen until medical assistance arrives.
- d. Keep patient at rest and prevent chilling.
- e. Get patient to a physician as soon as possible.

4. BLOWOUT PREVENTION MEASURE DURING DRILLING & COMPLETION

a. Blowout preventor requirements:

All BOP equipment shall meet IADC specifications as to materials acceptable for H<sub>2</sub>S service. This will be tested to full working pressure on initial installation and at any time a seal has been broken, a leak experienced or a known H<sub>2</sub>S bearing formation is to be completed. Mechanical operation of pipe rams will be open and closed daily. Blind rams will be open and closed on trips.

b. Gas monitoring equipment:

A continuous H<sub>2</sub>S monitoring system with three or more H<sub>2</sub>S detection heads will be in operation, one from the shale shaker, one sampling from the bell nipple below the rotary table, and one sampling from the rig floor. Both units will be monitored in the mud logger's trailer and/or the dog house. Each unit will be set to trigger a strobe light on the rig floor should the amount of H<sub>2</sub>S reach 10 ppm and to trigger a siren should the amount of H<sub>2</sub>S reach 20 ppm. Any time it is necessary to de-activate the alarm (if H<sub>2</sub>S gas is continuously present) a trained operator or H<sub>2</sub>S supervisor will monitor the H<sub>2</sub>S detection system.

Hand H<sub>2</sub>S sampling gas detectors will be used to check areas not covered by automatic monitoring equipment.

c. Crew training and protection:

(1) Blowout Prevention Drills

Pit drill and trip drill training will be held with each crew until proficient in closing the well in. Drills will be held on a regular basis thereafter, with at least one drill per crew each week. Drills are to be on a surprise basis with the drilling foreman or contract tool pusher triggering the alarm.

Reaction time will be checked from the time the alarm goes off until the simulated well shut-in is complete. Closing time should be under two minutes. A copy of the operator's blowout drill procedures will be posted on the rig floor.

4. BLOWOUT PREVENTION MEASURE DURING DRILLING & COMPLETION (Continued)

c. Crew training and protection: (Continued)

(2) H<sub>2</sub>S Training and Drills

H<sub>2</sub>S safety training will be given to all personnel, including the correct fit and use of the gas masks, resuscitator and artificial respiration. H<sub>2</sub>S drills will be held on a surprise basis during drilling completion and tripping operations. The drilling foreman or contract tool pusher will trigger the H<sub>2</sub>S alarm and crews will proceed to get the masks on and secure as per posted completion procedures. Similar drills will be held during well completions to which completions foreman or unit operator will trigger alarms.

BEARDS WILL NOT BE PERMITTED

(3) Safety Equipment

Safety protection equipment will be available to, or assigned, each person on location and training given in correct usage.

5. CONTINGENCY PROCEDURES

a. Responsibility:

In order to assure the proper execution of this plan, it is essential that one person be responsible for and in complete charge of implementing these procedures. The responsibility will be as follows:

- (1) The Operator's representative or his assistant
- (2) Contract tool pusher or should be become disabled, Foreman on tour.

b. Drill Site:

- (1) The drilling rig will be located to allow prevailing winds to blow across the rig toward the reserve pit.
- (2) Brief stations will be provided with a safety equipment trailer at one or more stations. Personnel will assemble at the most upwind station under alarm conditions, or when so ordered by the Drilling Foreman or the Safety Representative. A wind sock or streamer will be anchored to the trailer.

A second streamer will be anchored at the end of a catwalk on a pole about 30' high so as to be in easy view of the rig floor and visible at night.

5. CONTINGENCY PROCEDURES (Continued)

b. Drill Site (Continued)

- (2) A separate supply of air cylinders must be located at the opposite side of location than the Safety Unit. At least one Briefing Area with wind sock will be upwind at all times.
- (3) Warning signs will be posted on the access road to the location. "No Smoking" signs will be posted.
- (4) One automatic H<sub>2</sub>S monitor will be provided by the Safety company and the detector will be at the shale shaker. Another automatic detector will be on the rig floor monitoring either on the rig floor or in the logging unit. Should the alarm be shut off to silence the siren, the blinker light must continue to warn of H<sub>2</sub>S presence. The safety representative will continuously monitor the detector and will reactivate the alarm if H<sub>2</sub>S concentrations increase to a dangerous level.
- (5) An escape road or flagged trail will be provided. It is to be used only in an emergency and will be so posted.
- (6) Do not permit sleeping in cars on location. Maintain a parking area remost from the location preferably on the predominate upwind side of the site.
- (7) Explosion proof electric fans (bug blowers) will be positioned to insure adequate circulation at all critical locations.
- (8) A gas trap, choke manifold and degasser will be installed.
- (9) A kill line, securely anchored and of ample strength will be laid to the wellhead from a safe location. This line is to be used only in an emergency.
- (10) All swabbing and drillstem testing fluids containing H<sub>2</sub>S shall be run through a separator to permit flaring of gas. The flare shall have a continuous flame.
- (11) Provision for blocking or monitoring access to location during critical operations.
- (12) The Operator's Representative will be responsible for igniting the well if a critical condition arises.

5. CONTINGENCY PROCEDURES (Continued)

c. Emergency Procedures & Definitions of Warning Signs

Condition: GREEN - NORMAL OPERATIONS

Condition: YELLOW - POTENTIAL DANGER - CAUTION

Cause for condition:

1. Circulating
2. Trip gas after trips
3. Circulating our gas through choke
4. Poisonous gas present, but below threshold concentration

Condition: RED - EXTREME DANGER

1. Uncontrolled well
2. Poison gas present above threshold levels

Safety Action:

1. Check safety equipment and keep it with you
2. Do not panic
3. The decision to ignite the well should be made only as a last resort and it is clear that:
  - a. Human life is endangered, and
  - b. There is no hope of controlling the well under prevailing conditions. Every effort should be made to notify office - time permits.
4. Order evacuation of local people within the danger zone. Request help from local authorities, (State Police & Sheriff's Department) to evacuate people and to control traffic.
5. Notify office of well condition

d. Evacuation Procedures

1. The Operator's Representative (or next man in charge) will set off the siren and notify the appropriate agencies and law officers that an emergency exists and help is needed. Appendix I and III.
2. The State Police will contact residents in the danger zone. Appendix II. They will start with those in a downwind direction.

6. MUD PROGRAM

- a. Raise ph of drilling fluid to between 10.5 and 11.0 at approximately 1500' above the first possible sour formation.
- b. Mud weight will be kept in overbalance of formation pressures.
- c. Additions of caustic soda will be used to maintain ph above 10.5. Ample supplies of H<sub>2</sub>S neutralizer and scavenger will be maintained at rig location.
- d. Mud will be tested for sulfides content to determine need for neutralizer or scavenger.
- e. Barite will also be kept on location for mud weight in case of well kick.

DRILL STRING CORROSION

- a. ph will be raised to 10.5 to 11.0 in drilling mud if required.
- b. Corrosion coupons will be run and additions of corrosion protective materials will be made as requested by the contractor subject to Operator's approval.
- c. Pipe joint lubricating compound shall not contain sulfur.

CASING & TUBING

- a. Casing grade will be of low hardness for resistance to H<sub>2</sub>S.
- b. Tubing grade will be of low hardness for resistance to H<sub>2</sub>S.

## EMERGENCY EVACUATION PLAN

**NOTE:** This attachment shall be posted on the bulletin board contained in the dog house, with extra copies contained in the contract tool pushers trailer, Company trailer and in the Safety trailer.

## DESIGNATION OF RESPONSIBILITY

In order to assure the proper execution of this plan, it is essential that one person is responsible for, and in complete charge of implementing these procedures. Therefore, responsibility shall be designated in the following order, depending on who is on location:

1. The Company's Representative (Foreman or Consultant)
2. Contract Toolpusher
3. Bell H<sub>2</sub>S Safety Engineer on location

## DEFINITION OF WARNING SIGNS:

Condition: GREEN - Normal Operations - With Caution - Potential Danger

1. Be alert for a change in condition warning sign.
2. Before a zone has been perforated
3. After a zone has been plugged and pressure tested.

Condition: YELLOW - DANGER

1. Anytime a well has been perforated in a known H<sub>2</sub>S zone.
2. Circulating same zone.
3. Circulating gas out of zone.
4. When swabbing known H<sub>2</sub>S zone.
5. When testing a zone.
6. When performing DST.

Condition: RED - EXTREME DANGER

1. Uncontrollable well.
2. Poison gas present above threshold levels.

After any accidental release of potentially hazardous volume of hydrogen sulfide gas, this program shall be initiated immediately.

1. Set off alarm. Evacuate all persons off locations to "safe" briefing area; that is upwind. Check that all persons are present. If not proceed with evacuation from hazardous area in the following manner:
  - a. Two persons, if available, re-enter hazardous area with air packs and each attached to an assistant via safety line. The assistant shall also be wearing respiratory equipment but outside of the hazard area.
  - b. Locate and evacuate all other persons in hazardous area to safety briefing area.

- c. Proceed with emergency first aid to all injured. Call hospital emergency ward. Alert them to the problem and have them send rescue vehicle immediately.
2. Locate, define problem and proceed with emergency shut-in procedures per Company's Blowout Drill Procedure.
3. Stay in "safe briefing area" unless instructed to do otherwise. Continuously monitor air quality in briefing area.
4. Only enter hazardous area with adequate air supply and attended by someone with a safety rope.

**IGNITING THE WELL:**

**1. RESPONSIBILITY:**

- a. The decision to ignite the well is the responsibility of the Company Drilling Foreman. In his absence or incapacity, the Contractor's Foreman will assume all responsibility. In their absence or incapacity, the contract driller will be in charge.
- b. The decision to ignite the well is to be made as a last resort when it is clear that.....
  - (1) There is a definite threat to human life or machinery.
  - (2) There is no hope of containing the well under prevailing conditions.
  - (3) Time and circumstances permitting, an attempt will be made to notify the area office. If human life is threatened the decision must not be delayed.

**2. INSTRUCTIONS FOR IGNITING THE WELL:**

- a. Two people are required for the initial igniting procedure. Both men will wear self-contained breathing units. Each man will have a retrieval rope around his waist. One man is responsible for checking the atmosphere for explosive gases with an Explosimeter.

The other is responsible for lighting the well. Keep personnel not assigned special duties within the "Safe Briefing Area." Those in the "Safe Briefing Area" will be alert to the needs of the two men assigned to ignite the well. Should either of these men be overcome by fumes, they will immediately pull him to safety by the retrieval ropes.
- b. The primary method for igniting the well is a 12 guage meteortype flare gun. It has a range of approximately 500 ft. If this method fails or well conditions are such that a safer or better method is apparent, then the alternate should be used.

2. INSTRUCTIONS FOR IGNITING THE WELL: (Continued)

- c. If the well is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide which is also poisonous. Therefore,

DO NOT ASSUME THAT THE AREA IS SAFE AFTER THE GAS IS IGNITED!!

CONTINUE TO OBSERVE EMERGENCY PROCEDURES AND FOLLOW THE INSTRUCTIONS OF SUPERVISORS.

**CHECKLIST FOR DRILLING OR WORKOVER IN H<sub>2</sub>S ENVIRONMENT**  
(Pending approval of proposed NTL-10)

Items 1-4 to be shown on site layout diagram (part 9 of NTL-6 13 point checklist).

1. Two safety briefing areas at least 200' from wellhead and arranged so that at least one area will always be upwind of the well at all times.
2. Direction of prevailing winds.
3. Wind sock locations. (Minimum of 2) (NTL-10, II-A (4)).
4. A second emergency escape route from the location. (Flagged trail minimum.)
5. Number, types and storage locations of H<sub>2</sub>S respirators for personnel and number of personnel to be expected at any one time.
6. H<sub>2</sub>S detector locations (should at least include cellar or bell nipple and mud tanks at shale shaker.) Type and location of audible, visual alarm to be used. (NTL-10, II-A (3))
7. H<sub>2</sub>S evacuation and emergency training procedures and frequency. (NTL-10, II-A-(1) (b))
8. Area residents within a two-mile radius and agencies to be notified in an emergency (contingency plan.) (NTL-10, ID)
9. Types and quantities of mud additives and scavengers to be available at location from H<sub>2</sub>S operations.
10. Design features and operational procedures to be used to protect the drill string, casing strings, wellhead, BOP's, choke lines and manifold and other well-killing equipment in H<sub>2</sub>S environment. (A certification by the operator on the APD that all equipment meets standards for H<sub>2</sub>S service is acceptable for compliance.)
11. Appropriate warning signs and flags on all access roads to location. (NTL-10, II (4))
12. Provision for blocking or monitoring access to location during critical operations.
13. Ventilation fan under rig floor.
14. In event of uncontrolled blowout, which local official has authority to ignite flow?
15. Swabbing or drill stem testing fluids containing H<sub>2</sub>S should be through a separator to permit flaring of gas. Flare should have continuous flame to ensure ignition of all such gas.

## APPENDIX IV

### SAFETY EQUIPMENT

- Safety trailer with eight 380 cu. ft. cylinder Cascade Air Supply System
- 1500' low pressure air line with quick connects
- 3 Low pressure manifolds
- 10 Airline masks with emergency escape cylinders
- 10 Thirty-minute self-contained breathing apparatus
- 3 Wind socks and streamers
- 1 First aid kit
- 1 Oxygen powered resuscitator
- 1 Flare gun with shells
- 1 Gas detector (pump style)
- 1 Four-channel electronic monitor and explosion proof warning system
- 2 "Briefing Area" signs
- 2 Location "H<sub>2</sub>S Warning" signs
- 4 Aluminum pack boxes
- 2 Spare 45 C.F.T. air cylinders
- 1 Twenty pound ABC fire extinguisher
- 1 Briefing area with air charge Cascade station
- 2 "Danger-Poison Gas" warning signs
- 1 Eye wash
- 1 Fire blanket
- 1 Stretcher
- 1 Two bottle briefing area rack

APPENDIX V

EQUIPMENT LOCATION

Briefing Area #1, Safety Trailer

- 1 Resuscitator with two spare bottles of oxygen
- 8 380 cu. ft. bottles of compressed breathing air with Cascade air supply system
- 1 Thirty-minute Pak
- 2 Spare 45 cu. ft. bottles
- 1 Thirty-six unit first aid kit
- 1 Fire blanket, eyewash
- 1 Stretcher
- 1 Flare gun with shells
- 1 Twenty-pound fire extinguisher
- 1 Gas detector with tubes
- 1 "Briefing Area" signs

Briefing Area #2

- 2 380 cu. ft. cylinders with air charge Cascade station
- 1 Thirty-minute Pak
- 1 Wind sock with frame and pole
- 1 Two-bottle rack
- 1 "Briefing Area" sign

Company Man's Trailer

- 1 Thirty-minute Pak
- 2 Flare gun with shells

Toolpusher's Trailer

- 1 Thirty-minute Pak

Cellar

- 1 Monitor sensor head

## APPENDIX V

### EQUIPMENT LOCATION (Continued)

#### Shale Shaker

- 1 Monitor head
- 1 Star manifold
- 2 Work line units with emergency escape cylinders

#### Dog House

- 1 Four-channel monitor with recorder
- 1 "No Smoking" sign
- 1 "Danger, Authorized Personnel Only" warning sign
- 1 Thirty-minute pack rescue unit
- 1 Hand gas detector with tubes

#### Bottom of Stairs to Dog House

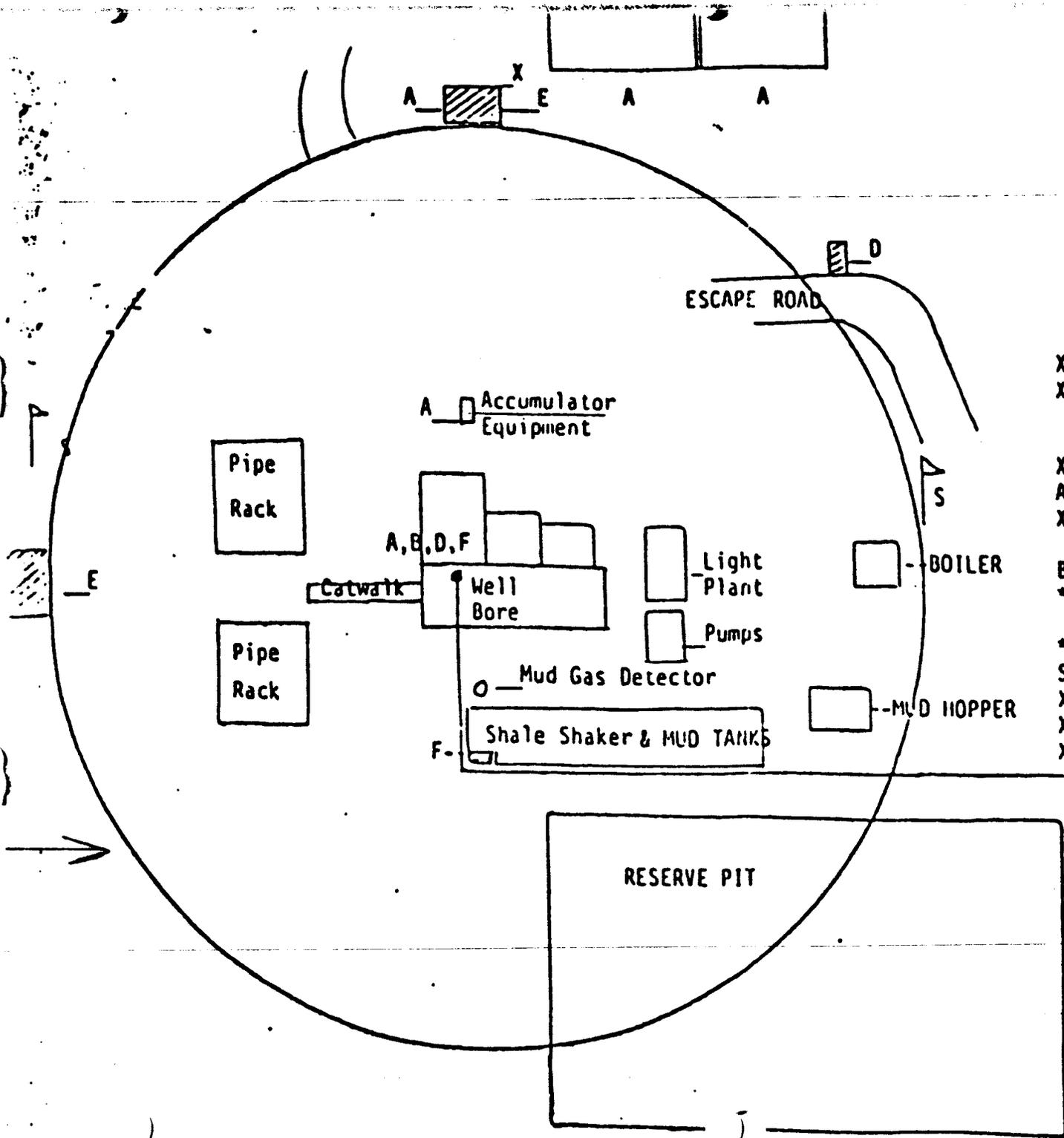
- 2 Thirty-minute Paks
- 1 "Danger, H<sub>2</sub>S Gas" warning sign

#### Rig Floor

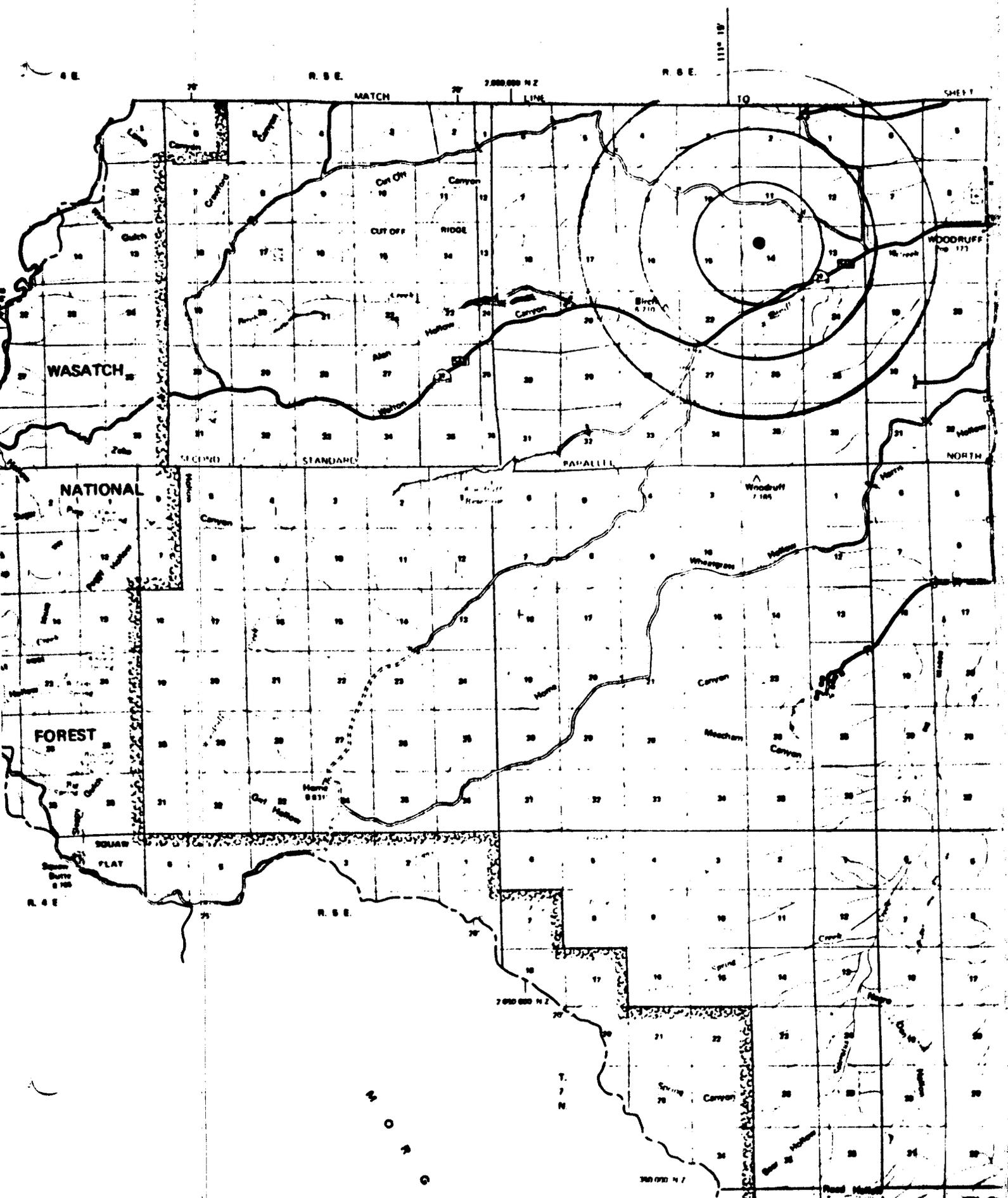
- 1 Monitor sensor head
- 5 Work line units with emergency escape cylinder
- 1 Air Manifold
- 1 Light and siren
- 1 Wind sock with frame and pole

#### Derrick

- 1 Work line unit with emergency escape cylinder
- 1 Work line hose from manifold on rig floor



- X- 1 - Resuscitator
- X -1 - Safety Trailer w/8/300 cu. ft bottles of compressed breath air and manifold system
- X -1 - 30-minute rescue unit
- A -5 - 30-minute rescue units
- X -5 - Spare 45 CF bottles for resc units
- B -6 - 5-minute escape units
- \* -6 - Hose-line work units w/7 min escape cylinders
- \* -1 - Hand gas detector w/tubes
- S -2 - Wind socks w/frames
- X -1 - 36 unit first aid kit
- X -1 - Fire Blanket
- X -1 - Stretcher
- D - 2 - H2S Warning Signs
- E -2 - Briefing Area Signs
- X - 1 - Flare gun w/cartridges
- X - 1 - 20 lb. fire extinguisher w/ bracket, 500' breathi hose w/quick connects - safety trailer to locati
- F - 1 - 4 Channel Monitor w/light & siren
- \* - Rig Floor





SOHIO PETROLEUM COMPANY  
EXPLORATION AND PRODUCTION

P. O. BOX 30  
CASPER, WYOMING 82602

December 22, 1983  
WHW: 85

Dan Washington  
Bureau of Land Management  
2370 South 2300 West  
Salt Lake City, UT 84119

Re: Birch Creek 14B ✓  
Sec. 14, T9N, R6E  
Rich County, Utah  
U25112

Dear Mr. Washington:

Attached are two items received from Bell Safety to be included in the H<sub>2</sub>S Contingency Plan in response to your questions. If you have further questions or comments, you can either contact Terry Rooney at 307-237-3861 or discuss at the January 4, 1984 onsite inspection for Sugarloaf 11-6.

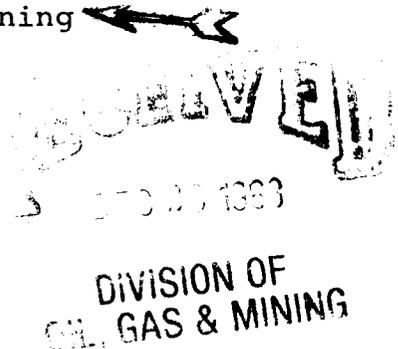
Sincerely,

Original Signed By:

W.H. Ward  
District Manager

TR/jc

cc: BLM, SLC  
Norm Stout, Division Oil Gas and Mining  
T. Rooney  
File



APPENDIX II

RESIDENCES WITHIN A THREE MILE RADIUS

Section 13, 14 - Along highway:

Mr. & Mrs. Mark Frodsham.....801-794-2405  
Mr. & Mrs. Arlo Eastman.....801-794-2755  
George Frazier.....801-794-6119  
Mr. & Mrs. Donald Saint Priest.....No Telephone

Section 22 - Along highway:

Deberl Putman.....801-794-5595

RECEIVED  
DEC 26 1963

DIVISION OF  
OIL, GAS & MINING

FACTORS EFFECTING DISPERSION OF GAS

1. Wind
2. Topographic Condition
3. Vegetation Cover
4. Humidity
5. Gas Composition
6. Leak Mechanics
7. Plume Rise
8. Escape Rate
9. Jet Entrainment
10. Temperature of Atmosphere
11. Temperature of Escaping Gas
12. Moisture Content of Gas
13. Fog Development

RECEIVED  
DEC 26 1963

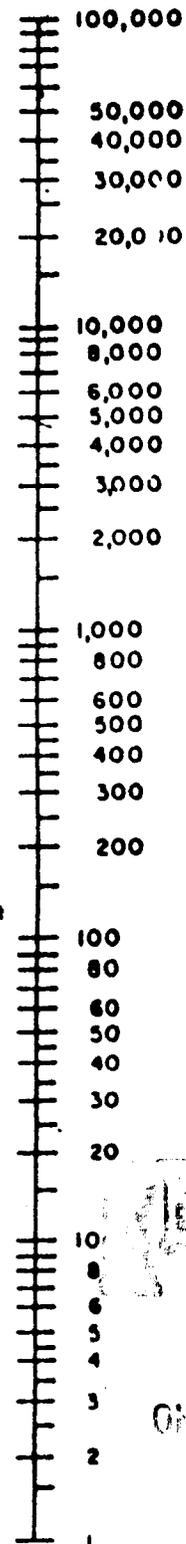
DIVISION OF  
OIL, GAS & MINING



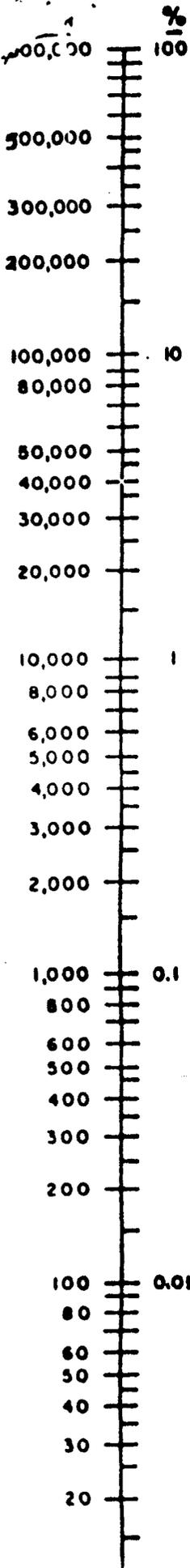
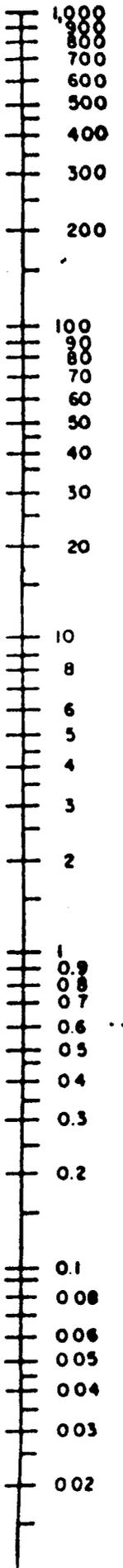
NOMOGRAPH

HYDROGEN SULFIDE  
100 PPM EXPOSURE RADIUS

Feet



Q, M<sup>2</sup>cf/d



At X = 3000 Ft.

Q = 226,547  
PPM

At X = 50 Ft.

Q = 326.4  
PPM

Below 100 PPM  
Rule 36 N.A.

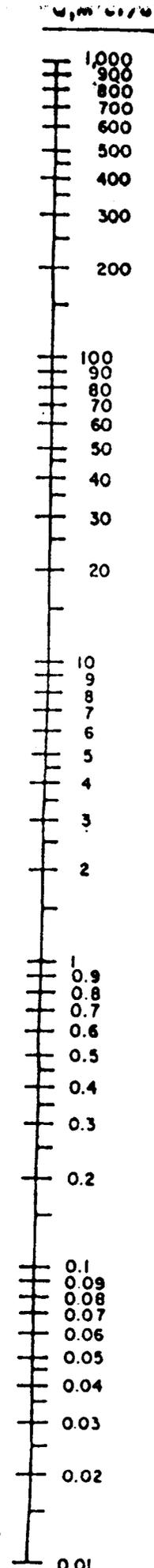
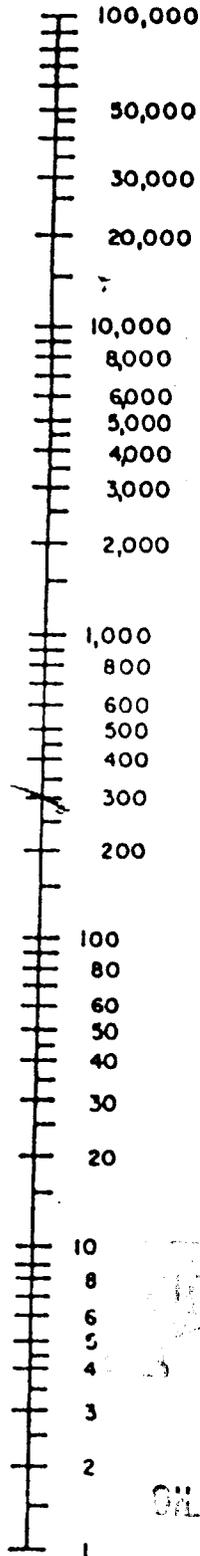
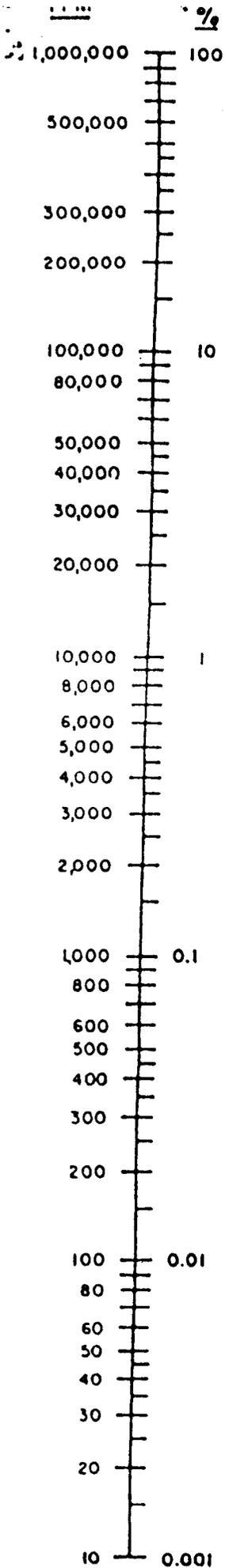
RECEIVED  
DEC 20 1963

DIVISION OF  
OIL, GAS & MINING

100 PPM Radius of Exposure in Feet = X  
 $X = \frac{[(1.589)(\text{Mole Fraction})(\text{Escape Rate})]^{0.6258}}{0.6258}$   
 $= \frac{[(1.589)(\text{ppm})(Q \text{ in } M^2cf/d)]^{0.6258}}{0.6258}$

NOMOGRAPH

HYDROGEN SULFIDE  
500 PPM EXPOSURE RADIUS  
FEET



At X = 50 Ft.  
Q = 1140.9  
PPM

RECEIVED  
OCT 20 1963

DIVISION OF  
OIL, GAS & MINING

500 PPM Radius of Exposure in Feet = X

$$X = [(0.4546)(\text{Mole Fraction})(\text{Escape Rate})]^{0.6258}$$

$$X = [(0.4546)(\text{PPM} \times 10^6)(Q \times 10^6 \text{ cu. ft.})]^{0.6258}$$

Wind velocity = 1 mph; Plume is shape of H<sub>2</sub>S dispersion.

Pressure base 14.65 psia, T<sub>b</sub> = 60°F

156047  
APR 28 1983  
DIVISION OF  
GEOLOGICAL SURVEY  
INDUSTRIAS & MINING

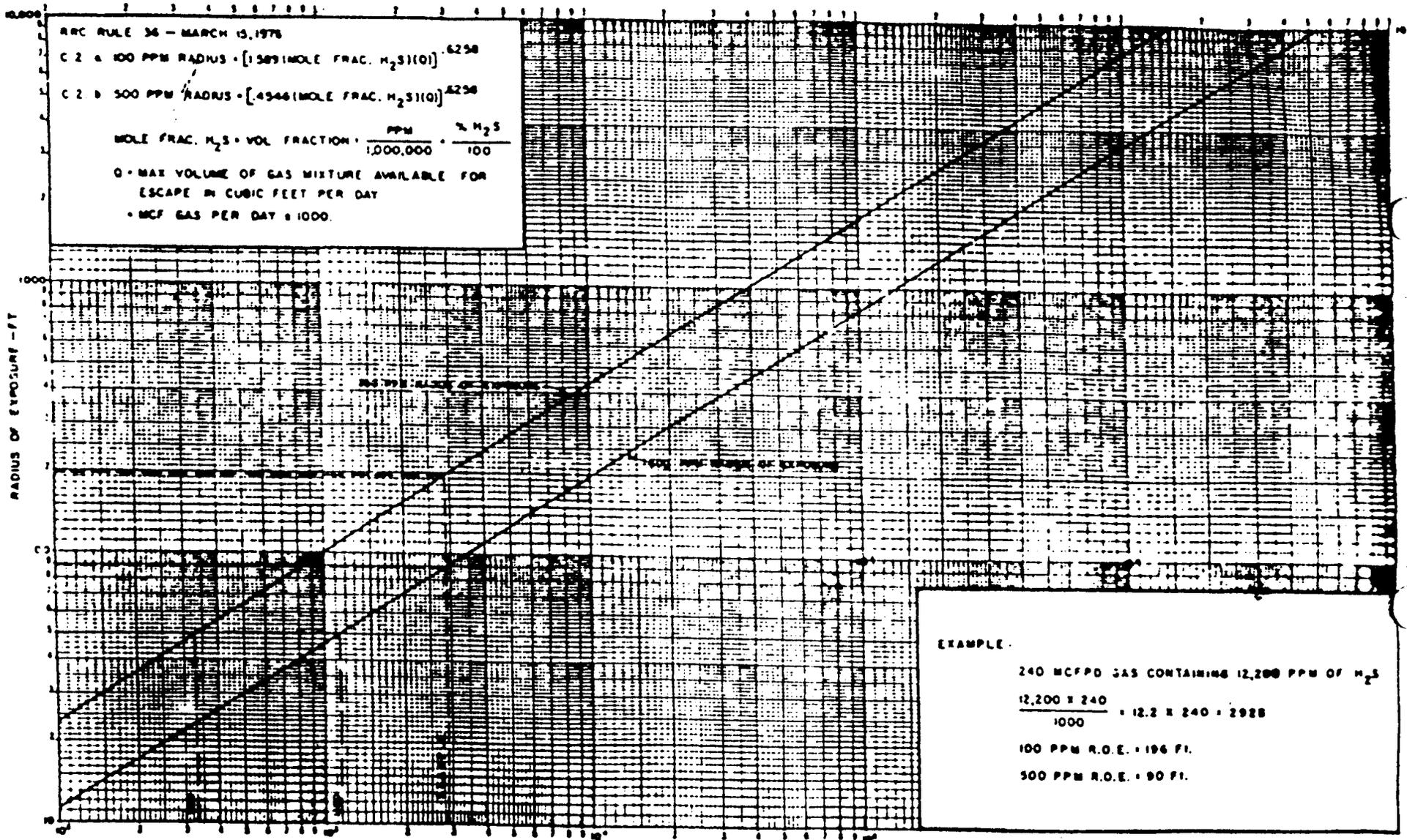
100 PPM

$$X = [(1.589) (\text{MOLE FRACTION } H_2S)(Q)]^{(0.6258)}$$

500 PPM

$$X = [(0.4546) (\text{MOLE FRACTION } H_2S)(Q)]^{(0.6258)}$$

33



$$H_2S = \frac{PPM \times MCF}{1000} = \text{CFPD OF } H_2S - \text{STD. CONDITIONS}$$

CHART FOR CALCULATING  
RADIUS OF EXPOSURE  
RRC - RULE 36

# DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE: Salt Lake  
SERIAL NO.: USA U-25112

and hereby designates

NAME: Sohio Petroleum Company, a Delaware Corp.  
ADDRESS: 1801 California Street, Suite 3500  
Denver, CO 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):

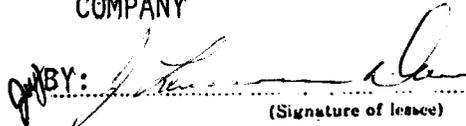
Township 9 North, Range 6 East - BIRCH CREEK 14B  
Section 14: N/2, SW/4, W/2SE/4, NE/4SE/4  
Rich County, Utah

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.

THE LOUISIANA LAND & EXPLORATION  
COMPANY

BY:   
(Signature of lessee)

1675 Broadway, Suite 2100  
Denver, CO 80202

01/09/84

(Date)

(Address)

U. S. GOVERNMENT PRINTING OFFICE 16-83508-3

**RECEIVED**  
JAN 20 1984

DIVISION OF  
OIL, GAS & MINING

Attachment #8  
Birch Creek 14B  
Sec. 14, T9N, R6E  
Rich County, Utah  
U-25112

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: SOHIO Petroleum

WELL NAME: Birch Creek 14B

SECTION 14 TOWNSHIP 9N RANGE 6E COUNTY Rich

DRILLING CONTRACTOR Loffland Brothers

RIG # 108

SPUDDED: DATE 2/23/84

TIME 2:30 p.m.

How Rotary

DRILLING WILL COMMENCE 2/23/84

REPORTED BY Terry Rooney

TELEPHONE # 307-237-3861

DATE 2/24/84

SIGNED Mary Alice Peterson

NOTICE OF SPUD

*file*

Company: SOHIO PETROLEUM

Caller: TERRY ROONEY

Phone: \_\_\_\_\_

Well Number: 14 B - BIRCH CREEK

Location: NUNW 14-9N-6E

County: RICH State: UTAH

Lease Number: U-25112

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

Unit Name (If Applicable): BIRCH CREEK UNIT

Date & Time Spudded: 2-23-84 2:30 P.M.

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

Details of Spud (Hole, Casing, Cement, etc.) 3/8" - W 30"

Conductor - 17 1/2" Hole

Rotary Rig Name & Number: \_\_\_\_\_

Approximate Date Rotary Moves In: \_\_\_\_\_

FOLLOW WITH SUNDRY NOTICE

Call Received By: KR

Date: 2-24-84

**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL & GAS CONSERVATION  
 4241 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH 84114  
 533-5771

State Lease No. NA  
 Federal Lease No. U25112  
 Indian Lease No. NA  
 Fee & Pat. NA

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Rich FIELD/LEASE Birch Creek 14-B

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
February, 1984

Agent's Address P.O. Box 30 Company Sohio Petroleum Company  
Casper, WY 82602 Signed [Signature]  
 Phone No. 307-237-3861 Title District Administrator

| Sec. and 1/4 of 1/4 | Twp. | Range | Well No. | Days Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas (In thousands) | Gallons of Gasoline Recovered | Barrels of Water (if none, so state) | API NUMBER/REMARKS<br>(If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)           |
|---------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| Sec. 14 NW NW       | 9N   | 6E    | 1        | Drilling      |                |         |                               |                               |                                      | TD: 667'<br><br>API# 43-033-30042<br><br><b>RECEIVED</b><br><br>JUL 9 1984<br><br>DIVISION OF OIL GAS & MINING<br>JUL - 9 1984 |

**CONFIDENTIAL**

GAS: (MCF)  
 Sold 0  
 Flared/Vented 0  
 Used On/Off Lease 0

OIL or CONDENSATE: (To be reported in Barrels)  
 On hand at beginning of month 0  
 Produced during month 0  
 Sold during month 0  
 Unavoidably lost 0  
 Reason: 0  
 On hand at end of month 0

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

UTAH STATE  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL AND GAS

INSPECTION RECORD-- PRODUCING

T. 9N R. 6E SEC. 14  
Rich  
 COUNTY Rich  
 FIELD Wildcat  
 INSPECTOR D. Jarvis/D. Swindel  
 INC ISSUED \_\_\_\_\_

WELL NAME Birch Creek 14-B  
 LEASE NO. \_\_\_\_\_  
 UNIT NAME & NO. \_\_\_\_\_  
 OPERATOR Sohio Petroleum  
 DATE 3/1/84 12:00

**A. GENERAL**

|   | YES | NO | NA | IN | ENH |
|---|-----|----|----|----|-----|
| 1. Well Signs.....  |     |    |    |    | I   |
| 2. Well Equipment Satisfactory.....   |     |    |    |    | I   |
| 3. Environmental Protection Satisfactory:<br>(fire hazards)(erosion)(air)(water)(solid waste)<br>(bioc)... .. |     |    |    |    | W   |
| 4. Temporary or Emergency Pits Satisfactory.....  |     |    |    |    | W   |
| 5. Lease Free of Evidence of Spills/Discharge/<br>Seepage.....  |     |    |    |    | W   |
| 6. Dikes Around Tanks, if Required.....   |     |    |    |    | W   |
| 7. Flow Lines Buried, if Required.....  |     |    |    |    | W   |
| 8. All Surface Use Approved and Not Excessive.....  |     |    |    |    | W   |
| 9. Does Current 9-329 Confirm Reasonableness of:<br>a. Production vs. Sales.....                              |     |    |    |    | W   |
| b. Tank Capacity vs. Inventory.....   |     |    |    |    | W   |
| c. Reported Well Status vs. Actual.....   |     |    |    |    | W   |

**B. LIQUID HYDROCARBON PRODUCTION**

|  |  |  |  |  |   |
|--|--|--|--|--|---|
| 10. Method of Measurement:<br>(A) LACT Meter; (B) Tank Gauge; (C) Other <u>A B C</u> |  |  |  |  | W |
| 11. Method of Measurement Satisfactory.....  |  |  |  |  | W |
| 12. Liquid Handling Equipment Satisfactory.....                                      |  |  |  |  | W |
| 13. All Lines Leaving Tankage Sealed/Locked.....                                     |  |  |  |  | W |
| 14. Production Stored on Lease, if Required.....                                     |  |  |  |  | W |
| 15. Production Measured on Lease, if Required.....                                   |  |  |  |  | W |
| 16. Commingling as Approved.....   |  |  |  |  | W |

**C. NATURAL GAS PRODUCTION**

|   |  |  |  |  |   |
|---|--|--|--|--|---|
| 17. Type of Gas Production:<br>(A) Gas Well; (B) Casinghead..... <u>A B</u>   |  |  |  |  | W |
| 18. Gas Disposition:<br>(A) Sold; (B) Flared/Vented; (C) Used on Lease;<br>(D) Other..... <u>A B C D</u>            |  |  |  |  | W |
| 19. Method of Measurement:<br>(A) Orifice Meter; (B) Turbine Meter; (C) Estimated;<br>(D) Other..... <u>A B C D</u> |  |  |  |  | W |
| 20. Method of Measurement Satisfactory.....   |  |  |  |  | W |
| 21. Gas Handling/Treating Equipment Satisfactory.....   |  |  |  |  | W |
| 22. Production Measured on Lease, if Required.....  |  |  |  |  | W |
| 23. Liquids Collected From Drips, if Required.....  |  |  |  |  | W |

**D. WATER DISPOSAL**

|  |  |  |  |  |   |
|--|--|--|--|--|---|
| 24. Disposal Method:<br>(A) Unlined Pit; (B) Lined Pit; (C) Subsurface;<br>(D) Other..... <u>A B C D</u> |  |  |  |  | W |
| 25. If Disposal by Pits, are Pits Satisfactory.....  |  |  |  |  | W |
| 26. Additional Disposal Facilities Satisfactory.....   |  |  |  |  | W |

**E. HYDROGEN SULFIDE OPERATIONS**

|   |  |  |  |  |   |
|---|--|--|--|--|---|
| 27. Are Tank Batteries Properly Equipped.....           |  |  |  |  | W |
| 28. Are Warning Signs Properly Installed.....           |  |  |  |  | W |
| 29. If Required, is the Contingency Plan Available..... |  |  |  |  | W |
| 30. Are Personnel Properly Protected.....               |  |  |  |  | W |

(S) Shut-in... (W) Formal Warning (I) Informal Warning

**LEASE REQUIREMENTS**

- (4.) Emergency Pits Approved \_\_\_\_\_  
 (6.) Are Dikes Around Tanks Required?  
 Yes \_\_\_\_\_ No \_\_\_\_\_  
 (7.) Is Burial of Flow Lines Required?  
 Yes \_\_\_\_\_ No \_\_\_\_\_

**SALES APPROVAL INFORMATION:**

- OIL:  
 (10.) Sale by LACT Unit   
 Approval \_\_\_\_\_  
 (13.) Seals on All Tank Access Lines  
 Required? Yes \_\_\_\_\_ No \_\_\_\_\_  
 (14.) On Lease Storage   
 Off-Lease Storage  Approval \_\_\_\_\_  
 If Off Lease - Measurement Is:  
 On Lease  On Lease \_\_\_\_\_  
 (16.) Commingling: Not Approved   
 On Lease  Approval \_\_\_\_\_  
 Off Lease  Approval \_\_\_\_\_

**GAS:**

- (18.) Special Restrictions Applicable  
 Yes \_\_\_\_\_ No \_\_\_\_\_  
 (22.) On Lease Sales   
 (22.) Off Lease Sales  Approval \_\_\_\_\_  
 (23.) Liquid Collection From Drips  
 Required? Yes \_\_\_\_\_ No \_\_\_\_\_

**OTHER REQUIREMENTS**

- (24.) NTL-2B Not Applicable   
 Applicable  Approval \_\_\_\_\_  
 Hydrogen Sulfide Operations:  
 Analysis:  
 Gas Screen \_\_\_\_\_ PPM  
 STV \_\_\_\_\_ PPM  
 (29.) Is a Contingency Plan Required?  
 Yes \_\_\_\_\_ No \_\_\_\_\_

**REMARKS**

Drilling in conglomerate at  
700 ft.  
Problems with lost circulation  
Casing to be set at 1000' or  
when drilling out of  
LC zone; BOP will then  
be rigged on  
Pit is fenced and satisfactory

**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL & GAS CONSERVATION  
 4241 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH 84114  
 533-5771

State Lease No. NA  
 Federal Lease No. U25112  
 Indian Lease No. NA  
 Fee & Pat. NA

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Rich FIELD/LEASE Birch Creek 14-B

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
March, 19 84

Agent's Address \_\_\_\_\_  
 P.O. Box 30  
Casper, WY 82602  
 Phone No. 307-237-3861

Company Sohio Petroleum Company  
 Signed [Signature]  
 Title District Administrator

| Sec. and<br>¼ of ¼  | Twp. | Range | Well<br>No. | Days<br>Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas<br>(In thousands) | Gallons of<br>Gasoline<br>Recovered | Barrels of<br>Water (if<br>none, so state) | API NUMBER/REMARKS<br>(if drilling, depth; if shut down, cause;<br>date and result of test for gasoline<br>content of gas) |
|---------------------|------|-------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--|--|
| Sec. 14<br>NW NW    | 9N   | 6E    | 1           | Drilling         |                |         |                                  |                                     |  | TD: 4241'<br><br>API# 43-033-30042 ✓<br><br>JUL - 9 1984   |
| <b>CONFIDENTIAL</b> |      |       |             |                  |                |         |                                  |                                     |  |  |

GAS: (MCF)  
 Sold \_\_\_\_\_ 0  
 Flared/Vented \_\_\_\_\_ 0  
 Used On/Off Lease \_\_\_\_\_ 0

OIL or CONDENSATE: (To be reported in Barrels)  
 On hand at beginning of month \_\_\_\_\_ 0  
 Produced during month \_\_\_\_\_ 0  
 Sold during month \_\_\_\_\_ 0  
 Unavoidably lost \_\_\_\_\_ 0  
 Reason: \_\_\_\_\_ 0  
 On hand at end of month \_\_\_\_\_ 0

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**CONFIDENTIAL**

LEASE  
025112

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1149' FWL, 1208' FNL (NW/4, NW/4)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 14, T9N, R6E

12. COUNTY OR PARISH | 13. STATE  
Rich | Utah

14. API NO.  
43-033-30042

15. ELEVATIONS (SHOW OF, KDB, AND WD)  
6929' GR

REQUEST FOR APPROVAL TO:                      SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF                      

FRACTURE TREAT                                      

SHOOT OR ACIDIZE                                      

REPAIR WELL    

PULL OR ALTER CASING                                      

MULTIPLE COMPLETE                                      

CHANGE ZONES    

ABANDON\*    

(other) MONTHLY WELL HISTORY

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

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

SEE ATTACHED SHEET:

MONTHLY HISTORY FOR March 9 thru April 9, 1984.

**RECEIVED**

APR 23 1984

**DIVISION OF OIL  
GAS & MINING**

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

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

Original Signed By  
SIGNED W.H. Ward TITLE District Manager DATE April 18, 1984

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

**CONFIDENTIAL**



SOHIO PETROLEUM COMPANY  
EXPLORATION AND PRODUCTION

P. O. BOX 30  
CASPER, WYOMING 82602

RECEIVED

APR 23 1984

DIVISION OF OIL  
GAS & MINING

April 16, 1984  
WHW: 60

Ron Firth  
Division Oil Gas and Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Re: Request for Confidentiality

Dear Sir:

It is requested that confidentiality be maintained for the maximum allowable time period on proprietary information submitted for the following drill sites in Rich and Summit Counties, Utah:

- 1) Christmas Creek 35-B (Fee)  
Section 35, T2N, R10E, Summit County
- 2) Birch Creek 14B U25112  
Section 14, T9N, R6E, Rich County
- 3) Sugarloaf 11-6 U29126  
Section 11, T10N, R6E, Rich County

From this date on, all such information (i.e. geologic tops, logs, DST results and core analyses) will be appropriately marked prior to submittal to your office. Please contact this office with any questions or comments.

Sincerely,

W.H. Ward  
District Manager

TR/jc

cc: J.H. Walters  
T. Rooney (3)  
Files

**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL & GAS CONSERVATION  
 4241 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH 84114  
 533-5771

State Lease No. NA  
 Federal Lease No. U25112  
 Indian Lease No. NA  
 Fee & Pat. NA

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Rich FIELD/LEASE Birch Creek 14-B

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
April, 1984

Agent's Address P.O. Box 30 Company Shell Petroleum Company  
Casper, WY 82602 Signed [Signature]  
 Phone No. 307-237-3861 Title District Administrator

| Sec. and 1/4 of 1/4 | Twp. | Range | Well No. | Days Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas (In thousands) | Gallons of Gasoline Recovered | Barrels of Water (if none, so state) | API NUMBER/REMARKS<br>(If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|---------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| Sec. 14 NW NW       | 9N   | 6E    | 1        | Drilling      |                |         |                               |                               |                                      | TD: 7016'<br>API# 43-033-30042<br><br>JUL - 9 1984   |
| <b>CONFIDENTIAL</b> |      |       |          |               |                |         |                               |                               |                                      |  |

**GAS: (MCF)**  
 Sold 0  
 Flared/Vented 0  
 Used On/Off Lease 0

**OIL or CONDENSATE: (To be reported in Barrels)**  
 On hand at beginning of month 0  
 Produced during month 0  
 Sold during month 0  
 Unavoidably lost 0  
 Reason: 0  
 On hand at end of month 0

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

**RECEIVED**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**MAY 7 1984**

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different formation. Use Form 9-331-C for such proposals.)

**DIVISION OF OIL  
GAS & MINING**

well  Gas well  other

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1149' FWL, 1208' FNL (NW/4, NW/4)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| REQUEST FOR APPROVAL TO:            |                          | SUBSEQUENT REPORT OF:    |
| TEST WATER SHUT-OFF                 | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT                      | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE                    | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL                         | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING                | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE                   | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES                        | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON*                            | <input type="checkbox"/> | <input type="checkbox"/> |
| (other) <u>MONTHLY WELL HISTORY</u> |                          |                          |

5. LEASE  
U25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 14, T9N, R6E

12. COUNTY OR PARISH | 13. STATE  
Rich | Utah

14. API NO.  
43-033-30042

15. ELEVATIONS (SHOW DF, KOB, AND WO)  
6929' GR

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

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

SEE ATTACHED SHEET:

MONTHLY HISTORY FOR April 10 thru May 3, 1984.

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

18. I hereby certify that the foregoing is true and correct  
Original Signed By:

SIGNED W.H. Ward TITLE District Manager DATE 5/3/84  
(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

**CONFIDENTIAL**

Birch Creek

|         |             |              |                 |
|---------|-------------|--------------|-----------------|
| 4-10-84 | Depth 5228' | Drlg.        | MW 8.7, Vis 51. |
| 4-11-84 | Depth 5325' | Drlg.        | MW 8.7, Vis 46. |
| 4-12-84 | Depth 5433' | Drlg.        | MW 8.7, Vis 45. |
| 4-13-84 | Depth 5569' | Drlg.        | MW 8.7, Vis 47. |
| 4-14-84 | Depth 5616' | Drlg.        | MW 8.8, Vis 47. |
| 4-15-84 | Depth 5751' | Drlg.        | MW 8.8, Vis 44. |
| 4-16-84 | Depth 5843' | Trip.        | MW 8.8, Vis 40. |
| 4-17-84 | Depth 5969' | Drlg.        | MW 8.8, Vis 44. |
| 4-18-84 | Depth 6038' | Drlg.        | MW 8.8, Vis 43. |
| 4-19-84 | Depth 6128' | Drlg.        | MW 8.9, Vis 42. |
| 4-20-84 | Depth 6145' | Drlg.        | MW 8.9, Vis 39. |
| 4-21-84 | Depth 6302' | Drlg.        | MW 8.9, Vis 44. |
| 4-22-84 | Depth 6391' | Survey.      | MW 8.9, Vis 47. |
| 4-23-84 | Depth 6440' | Drlg.        | MW 8.9, Vis 49. |
| 4-24-84 | Depth 6529' | Drlg.        | MW 8.9, Vis 40. |
| 4-25-84 | Depth 6566' | Drlg.        | MW 8.9, Vis 40. |
| 4-26-84 | Depth 6632' | Tripping.    | MW 8.8, Vis 50. |
| 4-27-84 | Depth 6663' | Drlg.        | MW 8.9, Vis 44. |
| 4-28-84 | Depth 6782' | Drlg.        | MW 8.9, Vis 40. |
| 4-29-84 | Depth 6908' | TOH.         | MW 8.9, Vis 55. |
| 4-30-84 | Depth 6960' | Drlg.        | MW 8.9, Vis 47. |
| 5-1-84  | Depth 7035' | Drlg.        | MW 8.9, Vis 50. |
| 5-2-84  | Depth 7068' | Log.         | MW 8.9, Vis 63. |
| 5-3-84  | Depth 7068' | RU to LD DC. | MW 8.8, Vis 64. |

**CONFIDENTIAL**

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
INSPECTION RECORD

Operator SOHIO Petroleum Co. Lease \_\_\_\_\_

Contractor Loffland #75

Well No. Birch Creek 14B

Location \_\_\_\_\_ Sec. 14 T. 9N R. 6E

Field Wildcat

County Rich State UT

Operation: Drilling X  
Workover \_\_\_\_\_  
Completion \_\_\_\_\_  
Abandonment \_\_\_\_\_  
Producing \_\_\_\_\_  
Other \_\_\_\_\_

Individual Well Inspection

General:

Well Sign  BOP  Pollution control  Marker NA  
Housekeeping  Safety  Surface use  Location

Remarks: Rig - Loffland #75  
Depth at visit - 7602' in Thaynes  
Ran 95/8 casing at 7068'  
Hole Deviation - at 7539', 7 degrees, S67E  
Pit was in good shape  
No problems on location

Lease and Facilities Inspection

Facilities inspected:

|                                       |                         |
|---------------------------------------|-------------------------|
| Identification _____                  | Pollution control _____ |
| Housekeeping _____                    | Pits and ponds _____    |
| Measurement facilities _____          | Water disposal _____    |
| Storage and handling facilities _____ | Other _____             |

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Action: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name D. Swindel Title Oil and Gas Field Specialist Date 5/9/84

Use:  for yes or satisfactory  
 for no or unsatisfactory  
NA for not applicable

April 5, 1984

UTAH

RECEIVED

DOUBLE "D" ENTERPRISES

MAY 11 1984

B.O.P. Test Report

DIVISION OF OIL  
GAS & MINING

B.O.P. TEST PERFORMED ON (DATE) 5-5-84

OIL CO.: Sohio

WELL NAME & NUMBER BIRCH CREEK 14-B

SECTION 14

TOWNSHIP 9N

RANGE 6E

COUNTY Rich, UTAH

DRILLING CONTRACTOR LOFFLAND #108

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE P. Dunham

RIG TOOL PUSHER H. STROUP

TESTED OUT OF EVANSTON

NOTIFIED PRIOR TO TEST: .....

COPIES OF THIS TEST REPORT SENT COPIES TO: SITE REP

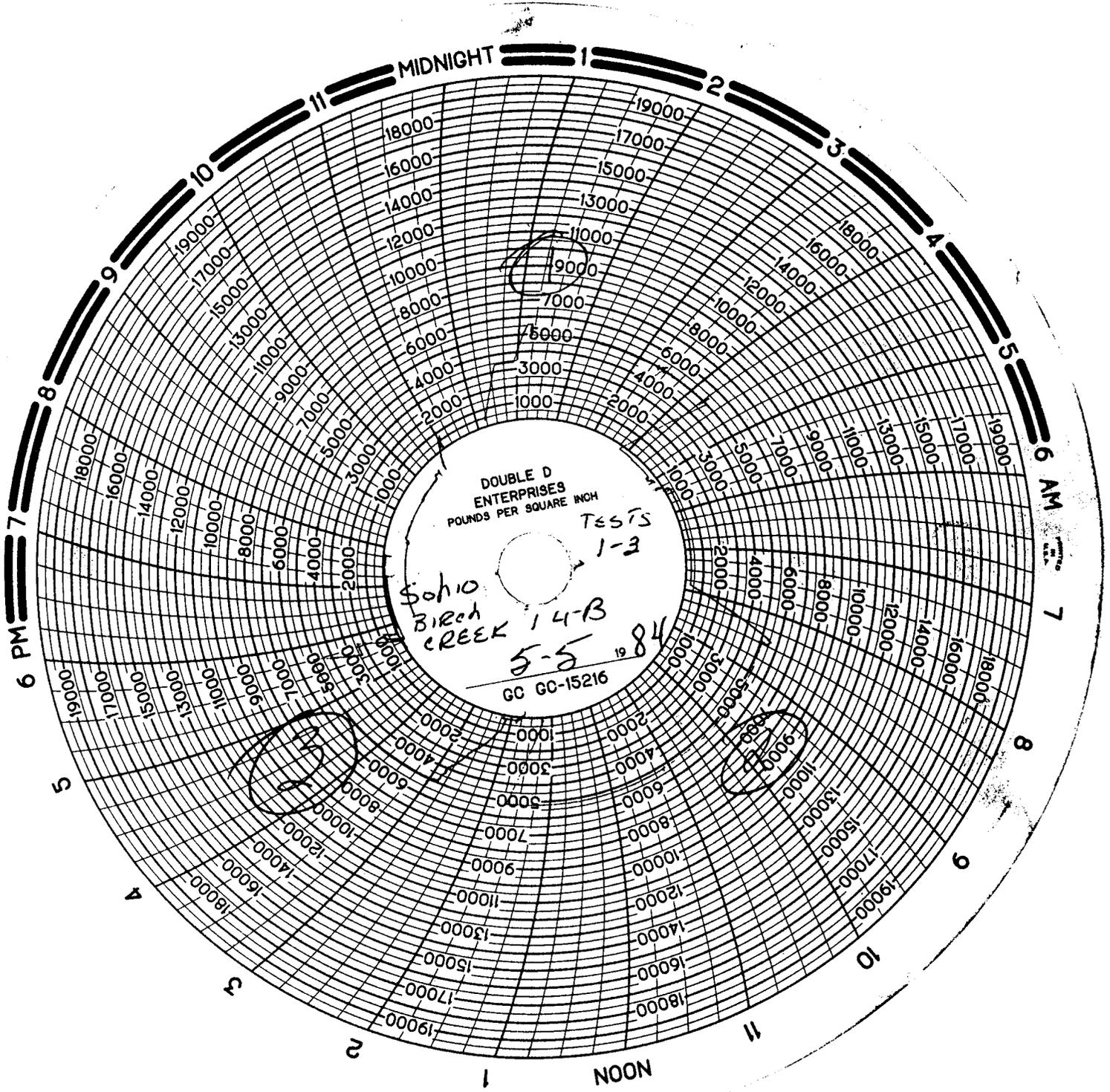
USGS

UTAH

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON, WYO......OFFICE

| Company | Lease Md.     | Well Name #   | Date of test | Rig #            |
|---------|---------------|---|--------------|------------------|
| Sohio   |               | Birch CREEK 14-B  | 5-5-84       | #108<br>LOFFLAND |
| Test #  | Time          |   |              |                  |
|         | 8:00 - 9:00   | LOAD OUT & TRAVEL TO LOCATION   |              |                  |
|         | 9:00 - 10:45  | NIPPLE UP & CHG. RAMS   |              |                  |
|         | 10:45 - 10:55 | RIG UP TEST UNIT  |              |                  |
| ①       | 10:55 - 11:00 | 200 O.K. (SEE DIAGRAM FOR ITEMS TESTED)   |              |                  |
|         | 11:00 - 11:15 | 5000 O.K.   |              |                  |
| ②       | 11:20 - 11:25 | 200 O.K.  |              |                  |
|         | 11:25 - 11:40 | 5000 O.K.   |              |                  |
|         | 11:40         | LAY DOWN CSG. ELEVATORS, P.U. MOUSE HOLE,<br>PLUG, TOOLS, REPAIR BROKEN KOOMEY LINE, WORK |              |                  |
|         | 12:15         | SUPER CHOKE   |              |                  |
| ③       | 12:20 - 12:25 | 200 O.K.  |              |                  |
|         | 12:25 - 12:40 | 5000 O.K.   |              |                  |
|         | 12:40         | STAB. PLUG, M.U. & SHUT T.I.W., SWITCH HOSES  |              |                  |
|         | 1:00          | To FLOOR  |              |                  |
| ④       | 1:00 - 1:05   | 200 O.K.  |              |                  |
|         | 1:05 - 1:20   | 5000 O.K.   |              |                  |
| ⑤       | 1:25 - 1:30   | 200 O.K.  |              |                  |
|         | 1:30 - 1:45   | 5000 O.K.   |              |                  |
|         | 1:45 - 2:10   | Pull PLUG, SWAP T.I.W. & DART, STAB PLUG, FILL  |              |                  |
| ⑥       | 2:10 - 2:15   | 200 O.K.  |              |                  |
|         | 2:15 - 2:20   | 5000 O.K.   |              |                  |
|         | 2:30 - 2:50   | WORK HYDRIL & CLOSE   |              |                  |
| ⑦       | 2:50 - 2:55   | 200 O.K.  |              |                  |
|         | 2:55 - 3:10   | 2500 O.K.   |              |                  |
|         | 3:10 - 3:15   | Pull PLUG & RIG UP TO KELLY   |              |                  |
| ⑧       | 3:15 - 3:20   | 200 O.K.  |              |                  |
|         | 3:20 - 3:25   | 5000 LEAK @ TOOL JOINT - TIGHTEN  |              |                  |
| RR ⑧    | 3:25 - 3:50   | 5000 O.K.   |              |                  |
|         | 3:50 - 4:00   | WORK UPPER KELLY COCK   |              |                  |
| ⑨       | 4:00 - 4:05   | 200 O.K.  |              |                  |
|         | 4:05 - 4:20   | 5000 O.K.   |              |                  |
|         | 4:20 - 6:00   | LOAD OUT TOOLS, MAKE TICKET & TRAVEL HOME   |              |                  |





DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

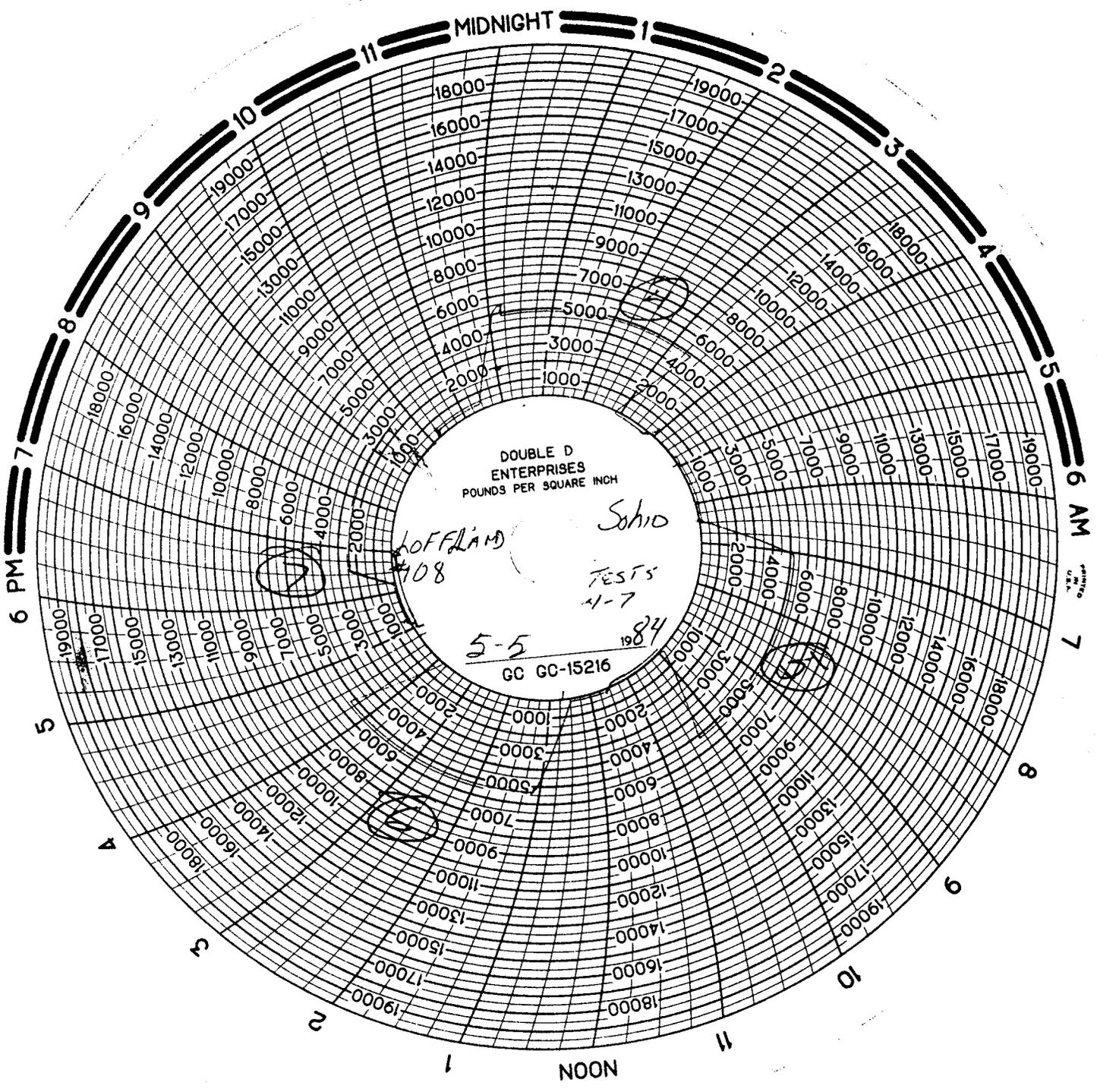
TESTS  
1-3

Sohio  
BIRCH  
CREEK 14-B

5-5 1984

GC GC-15216





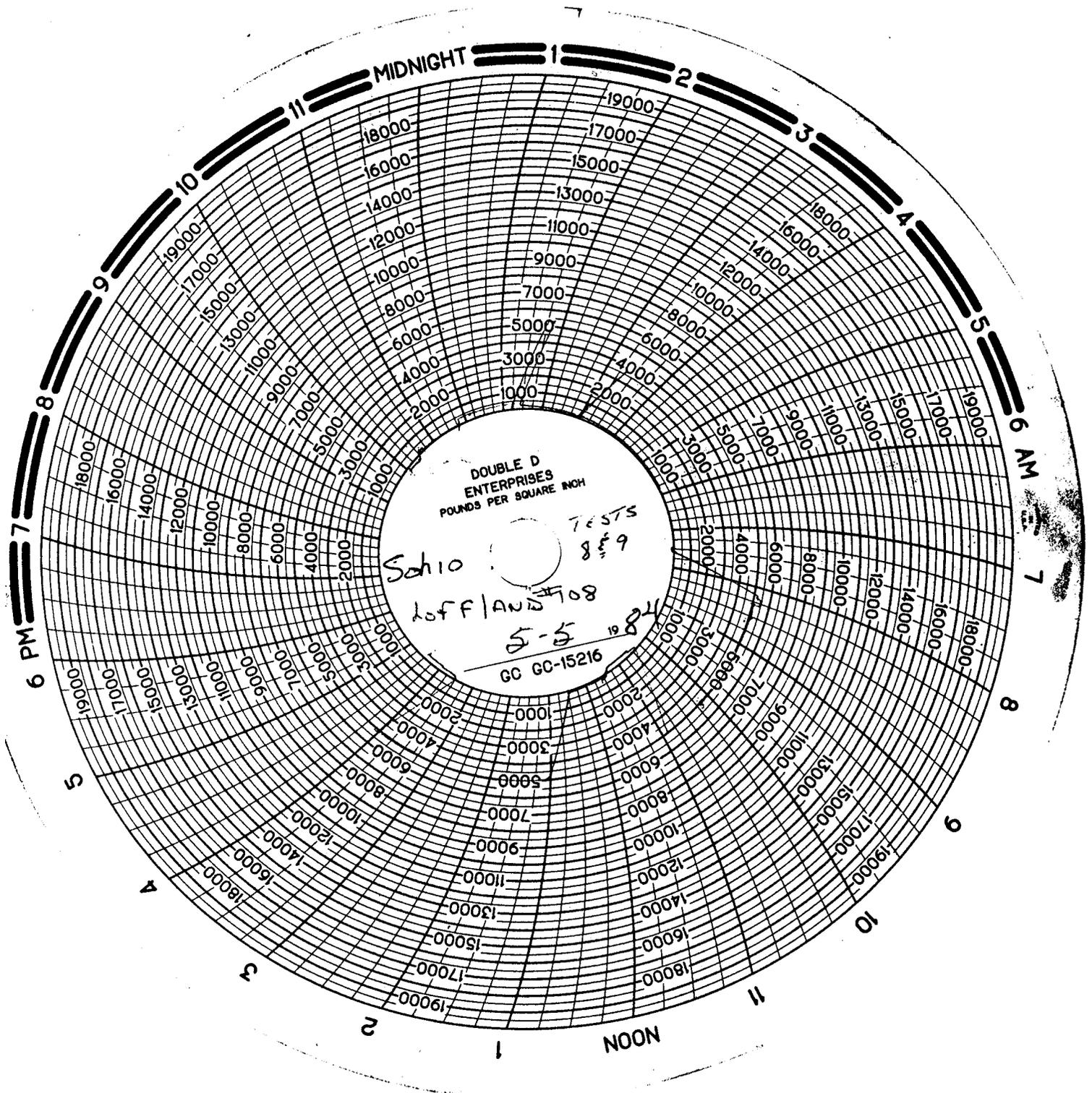
DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

HOFFLAND  
408

Sohio  
TESTS  
4-7

5-5 1904  
GC GC-15216

TEST  
C. M.  
22-11-54



MIDNIGHT

DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

Schio  
Loffland 708  
5-5 1984  
GC GC-15216  
TESTS  
8 5 9

6 PM

6 AM

NOON

**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL & GAS CONSERVATION  
 4241 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH 84114  
 533-5771

State Lease No. NA  
 Federal Lease No. U25112  
 Indian Lease No. NA  
 Fee & Pat. NA

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Rich FIELD/LEASE Birch Creek 14-B

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
May, 1984.

Agent's Address: P.O. Box 30  
Casper, WY 82602  
 Phone No. 307-237-3861

Company: Sohio Petroleum Company  
 Signed: [Signature]  
 Title: District Administrator

| Sec. and 1/4 of 1/4 | Twp. | Range | Well No. | Days Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas (In thousands) | Gallons of Gasoline Recovered | Barrels of Water (if none, so state) | API NUMBER/REMARKS<br>(If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|---------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| Sec. 14<br>NW NW    | 9N   | 6E    | 1        | Drilling      |                |         |                               |                               |                                      | TD: 10,076'<br><br>API# 43-033-30042<br><br>JUL - 9 1984   |
| <b>CONFIDENTIAL</b> |      |       |          |               |                |         |                               |                               |                                      |  |

**GAS: (MCF)**  
 Sold 0  
 Flared/Vented 0  
 Used On/Off Lease 0

**OIL or CONDENSATE: (To be reported in Barrels)**  
 On hand at beginning of month 0  
 Produced during month 0  
 Sold during month 0  
 Unavoidably lost 0  
 Reason: 0  
 On hand at end of month 0

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1149' FWL, 1208' FNL (NW/4, NW/4)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| REQUEST FOR APPROVAL TO:            |                          | SUBSEQUENT REPORT OF:    |
| TEST WATER SHUT-OFF                 | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT                      | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE                    | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL                         | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING                | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE                   | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES                        | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON*                            | <input type="checkbox"/> | <input type="checkbox"/> |
| (other) <u>MONTHLY WELL HISTORY</u> |                          |                          |

5. LEASE  
U25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 14, T9N, R6E

12. COUNTY OR PARISH | 13. STATE  
Rich | Utah

14. API NO.  
43-033-30042

15. ELEVATIONS (SHOW OF, KDB, AND WD)  
6929' GR

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

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

SEE ATTACHED SHEET:

MONTHLY HISTORY FOR May 4, 1984 - May 31, 1984

RECEIVED

JUN 6 1984

DIVISION OF OIL  
GAS & MINING

Subsurface Safety Valve: Manu. and Type

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

SIGNED ORIGINAL SIGNED BY: W.H. Ward TITLE District Manager DATE June 4, 1984  
(This space for Federal or State office use)

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

CONFIDENTIAL

Well History  
Birch Creek 14-B

|         |              |                                       |
|---------|--------------|---------------------------------------|
| 5-4-84  | Depth 7068'  | WOC.                                  |
| 5-5-84  | Depth 7068'  | RU FL.                                |
| 5-6-84  | Depth 7068'  | Attempt to pull wear ring.            |
| 5-7-84  | Depth 7123'  | Ream BHA to btm.                      |
| 5-8-84  | Depth 7407'  | Drlg. MW 8.3, Vis 25                  |
| 5-9-84  | Depth 7602'  | Drlg. MW 8.3, Vis 27                  |
| 5-10-84 | Depth 7797'  | Drlg. MW 8.3, Vis 27.                 |
| 5-11-84 | Depth 8113'  | Drlg. MW 8.3+, Vis 27.                |
| 5-12-84 | Depth 8458'  | Drlg. MW 8.3, Vis 27.                 |
| 5-13-84 | Depth 8646'  | Mix Mud. MW 8.5+, Vis 45.             |
| 5-14-84 | Depth 8646'  | TIH w/mill. MW 8.5, Vis 41            |
| 5-15-84 | Depth 8698'  | Drlg. MW 8.5, Vis 43.                 |
| 5-16-84 | Depth 8820'  | Drlg. MW 8.5, Vis 43.                 |
| 5-17-84 | Depth 8906'  | Drlg. MW 8.6, Vis 43.                 |
| 5-18-84 | Depth 9015'  | Drlg. MW 8.6, Vis 42.                 |
| 5-19-84 | Depth 9040'  | Drlg. MW 8.6, Vis 42.                 |
| 5-20-84 | Depth 9145'  | Drlg. MW 8.5+, Vis 42                 |
| 5-21-84 | Depth 9262'  | Drlg. MW 8.6, Vis 43.                 |
| 5-22-84 | Depth 9378'  | Drlg. MW 8.7, Vis 43.                 |
| 5-23-84 | Depth 9491'  | Drlg. MW 8.8, Vis 42.                 |
| 5-24-84 | Depth 9560'  | Drlg. MW 8.7, Vis 42.                 |
| 5-25-84 | Depth 9660'  | Prep to Trip. MW 8.7. Vis 41.         |
| 5-26-84 | Depth 9698'  | Drlg. MW 8.7, Vis 42.                 |
| 5-27-84 | Depth 9778'  | Drlg. MW 8.7, Vis 42.                 |
| 5-28-84 | Depth 9801'  | Drlg. MW 8.7, Vis 41.                 |
| 5-29-84 | Depth 9916'  | Drlg. MW 8.8, Vis 43.                 |
| 5-30-84 | Depth 9940'  | Run csg. caliper log. MW 8.7, Vis 41. |
| 5-31-84 | Depth 10009' | Drlg. MW 8.7, Vis 48.                 |

CONFIDENTIAL

# DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 6-20-84

OIL CO.: Sohio

WELL NAME & NUMBER Birch Creek #14-B

SECTION 14

TOWNSHIP 9-N

RANGE 6-E

COUNTY Rich

DRILLING CONTRACTOR Loffland #108

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE Louis Brown & P. Dunham

RIG TOOL PUSHER H. Stroup

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST: Ron Firth & Arlene Sollis w/State

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative

Utah Oil & Gas

B.L.M.

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston OFFICE

DOUBLE "D" TESTING

P.O. Box 560  
Shoshoni, Wyoming 82649  
307-876-2308

DELIVERY TICKET

No 1915

RENTED TO Sobio NO. \_\_\_\_\_  
DATE 6-20-84

ORDERED BY LOUIS BROWN LEASE BIRCH CREEK WELL NO. 14-13

Rental begins when tools leave our warehouse and continues until returned thereto. Rental day starts at midnight and part day shall be charged as full day.

TRANSPORTATION - TO AND

DOUBLE D Portable BLOWOUT

First eight hour test period

Additional eight hours or fraction.

Items Tested:

|  |                               |                                  |
|--|-------------------------------|----------------------------------|
| <u>PIPE</u> rams to <u>200 5000</u> #  | Csg. to <u>200</u> #          | Choke Manifold <u>200 5000</u> # |
| <u>BLIND</u> rams to <u>200 5000</u> # | Hydril B O P to <u>2500</u> # | <u>BOTH</u> <u>200 5000</u> #    |
| <u>PIPE</u> rams to <u>200 5000</u> #  | Choke Line <u>200 5000</u> #  | Kelly Cock <u>200 5000</u> #     |
| _____ rams to _____ #                  | <u>TIW</u> <u>200 5000</u> #  | Safety Valve <u>5000</u> #       |

TEST SUBS 2-4 1/2 IF TOP & BOTTOM SUBS

OTHER 1-10" GRAY TEST PLUG

SHOT CASING VALVES AFTER TESTS

LOW TESTS HELD 5 MIN.

HIGH TESTS HELD 15 MIN.

RAM CLOSING TIME 7 SECONDS

DID NOT SET WEAR RING

ACC. PSI 2700

ANNULAR PSI 1250

RON FIRTH UTAH NOTIFIED

We Appreciate Your Business LOFFLAND #108

TERMS NET CASH -- NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. All TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash -- No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

By: Michael Berglund

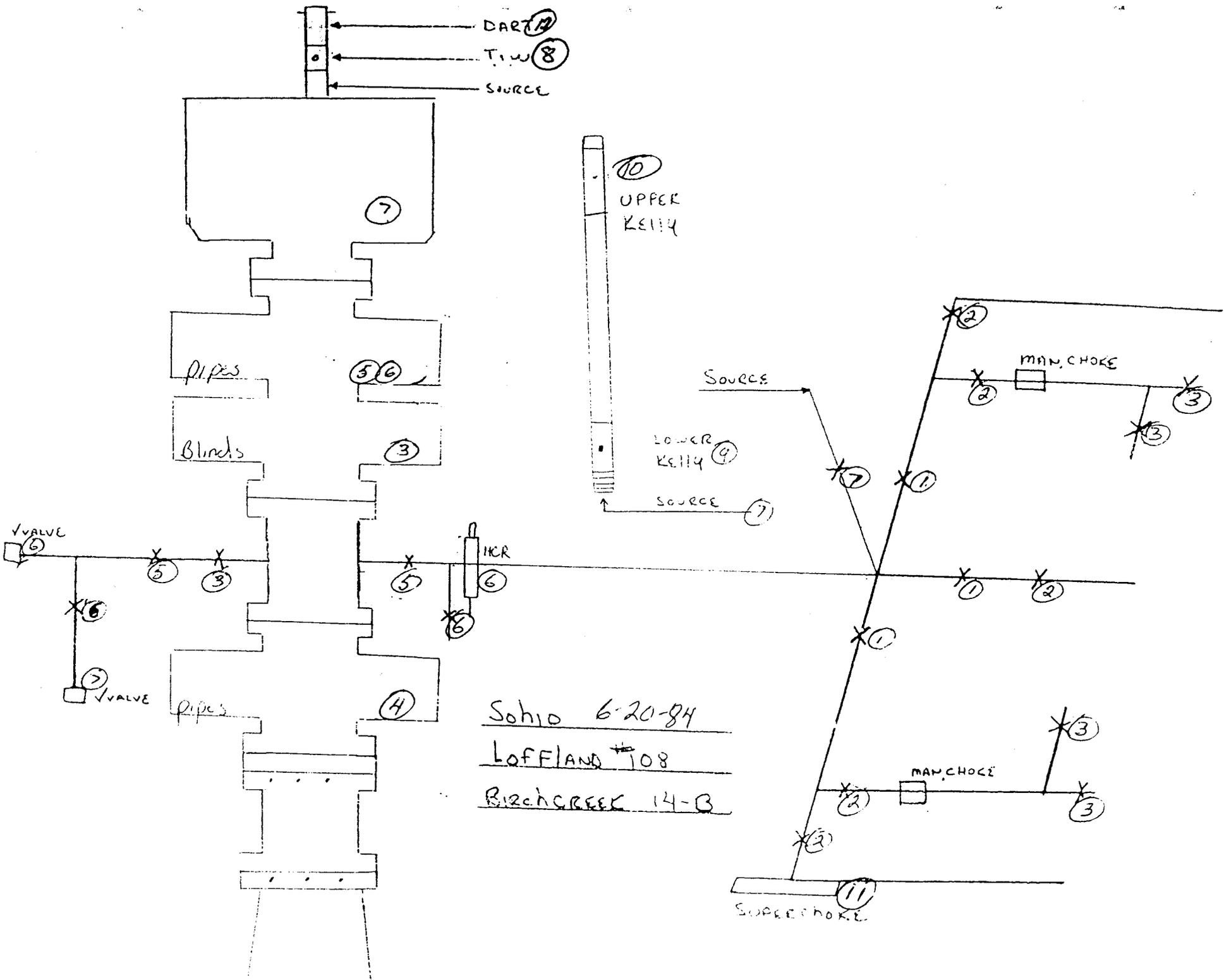
By: Louis Brown

| Company | Lease and Well Name # | Date of test | Rig #           |
|---------|-----------------------|--------------|-----------------|
| Sohio   | BURGH CREEK 14-B      | 6-20-84      | LOFFLAND<br>703 |

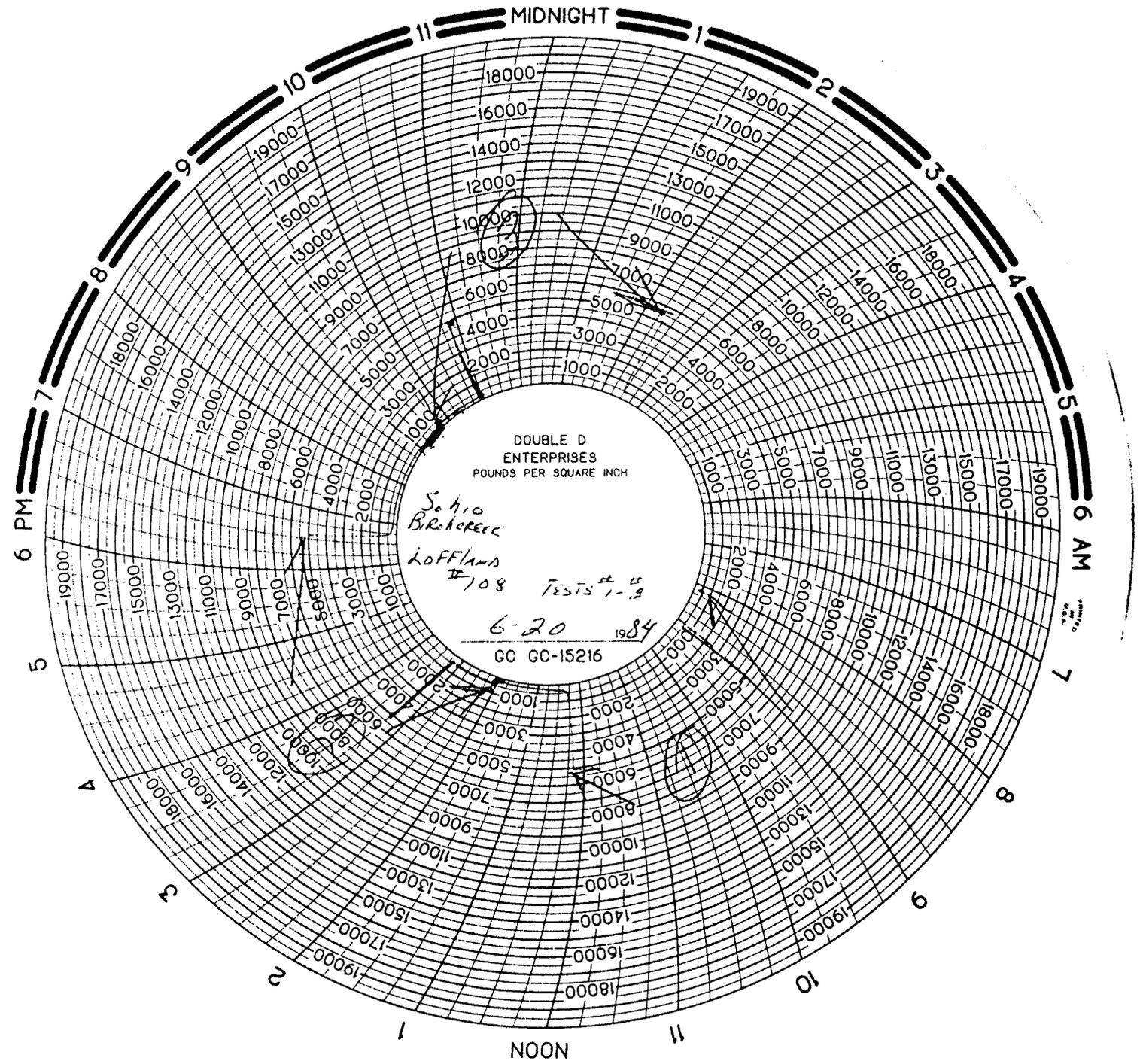
| Item # | Time          | SEE DIAGRAM FOR ITEMS TESTED                                    |
|--------|---------------|---|
|        | 10:30 - 12:00 | LOADOUT & TRAVEL TO LOCATION                                    |
|        | 12:00 - 12:20 | RIG LAYING DOWN B.M.A. - RIG UP                                 |
| ①      | 12:20 - 12:25 | 200 O.K. 1ST MANUALS - MANIFOLD - 1ST BACK                      |
|        | 12:25 - 12:40 | 5000 O.K.   |
| ②      | 12:40 - 12:45 | 200 O.K. 2ND MANUAL - 2ND BACK                                  |
|        | 12:45 - 1:00  | 5000 O.K.   |
|        | 1:00 - 1:25   | PULL WEAR RING, HOSE OUT STACK, SET PLUG, OPEN CASING VALVES    |
| ③      | 1:25 - 1:30   | 200 O.K. 3RD MANUALS - 1ST KILL & BLINDS                        |
|        | 1:30 - 1:45   | 5000 O.K.   |
|        | 1:45 - 2:05   | RIG UP TO FLOOR, START PLUG, SHUT LOWER PIPES                   |
| ④      | 2:05 - 2:10   | 200 O.K. LOWER PIPES  |
|        | 2:10 - 2:25   | 5000 O.K.   |
|        | 2:25 - 2:30   | CLOSE UPPER PIPES, INSIDE 4" CHOKE & 2ND KILL                   |
| ⑤      | 2:30 - 2:35   | 200 O.K. UPPER PIPES, 2ND KILL, & 1ST CHOKE VALVES              |
|        | 2:35 - 2:50   | 5000 O.K.   |
|        | 2:50 - 2:55   | SWITCH VALVES   |
| ⑥      | 2:55 - 3:00   | 200 O.K. UPPER PIPES, HCR, CHOKE WING, KILL WING, & CHECK VALVE |
|        | 3:00 - 3:15   | 5000 O.K.   |
|        | 3:15 - 3:25   | WORK HYDRIL & CLOSE - OPEN UPPER PIPES & HCR                    |
|        |               | CLOSE VERTICAL  |
| ⑦      | 3:25 - 3:30   | 200 O.K. HYDRIL, VERTICAL VALVE, WING CHECK VALVE               |
|        | 3:30 - 3:45   | 2500 O.K.   |
|        | 3:45 -        | PULL PLUG, LAY DOWN TOOLS, P.U. KELLY, MAKE UP T.I.W.           |
|        | 4:15          | CLOSE T.I.W.  |
| ⑧      | 4:15 - 4:20   | 200 O.K. - T.I.W.   |
|        | 4:20 - 4:35   | 5000 O.K.   |
|        | 4:35 - 4:40   | CLOSE LOWER KELLY - OPEN T.I.W.                                 |
| ⑨      | 4:40 - 4:45   | 200 O.K. LOWER KELLY COCK                                       |
|        | 4:45 - 5:00   | 5000 O.K.   |



DART (12)  
T.W. (8)  
SOURCE



Sohio 6-20-84  
Loffland #108  
Birchcreek 14-B



DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

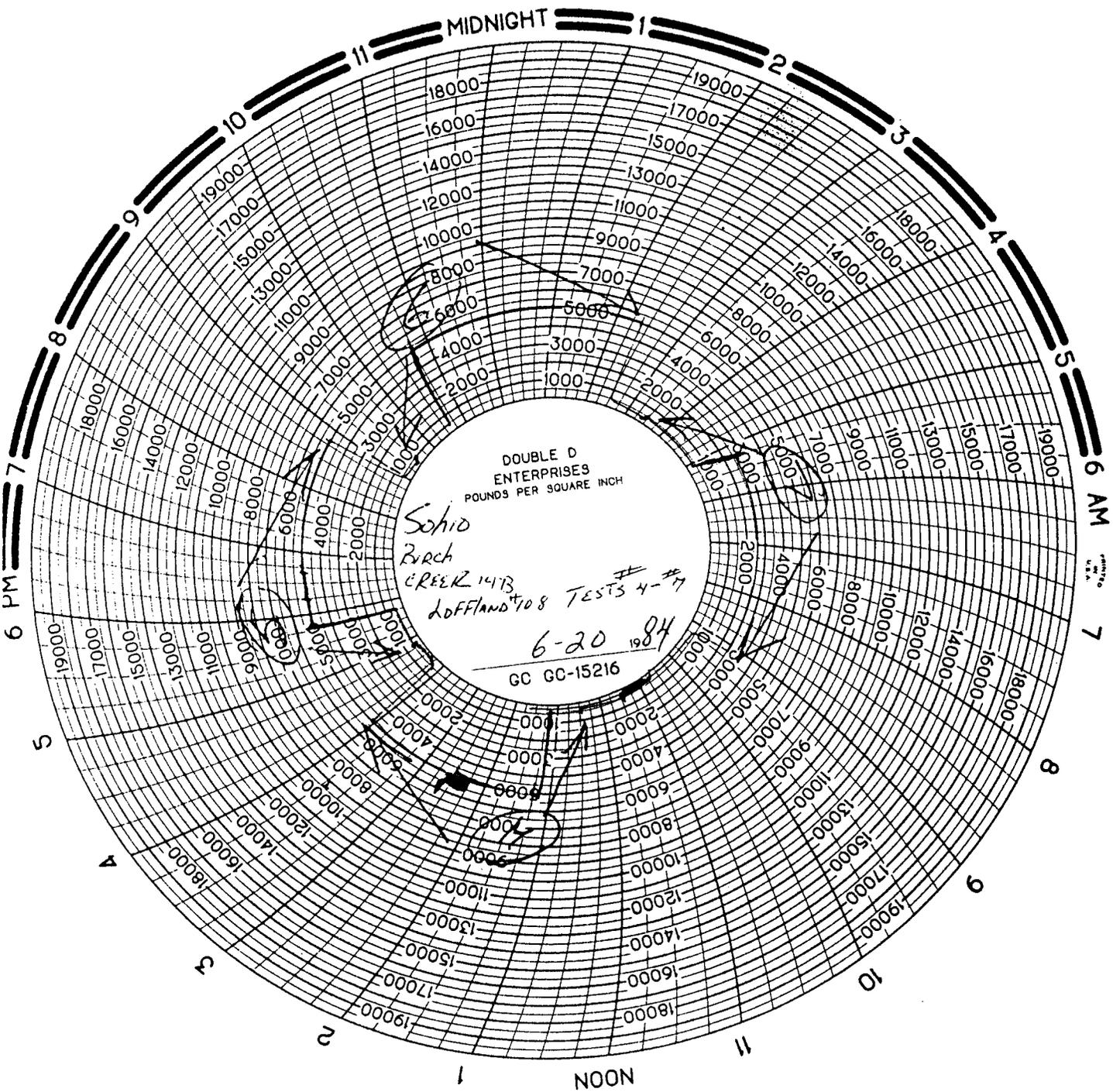
Sahio  
B. R. H. Greece

LOFFLAND  
#108

TESTS # 1-3

6-20 1984

GC GC-15216



MIDNIGHT

18000

16000

14000

12000

10000

8000

6000

4000

2000

1000

500

200

100

50

20

10

5

2

1

0.5

0.2

0.1

0.05

0.02

0.01

DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

Sohio  
Ritch  
CREEK 141B  
DUFFLAND 108 TESTS 4-7  
6-20 1984  
GC GC-15216

6 PM

5

4

3

2

1

11

10

9

8

7

NOON

11

10

9

8

7

6

5

4

3

2

1

12

11

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9

8

7

6

5

4

3

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6

6 AM

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4

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12

11

10

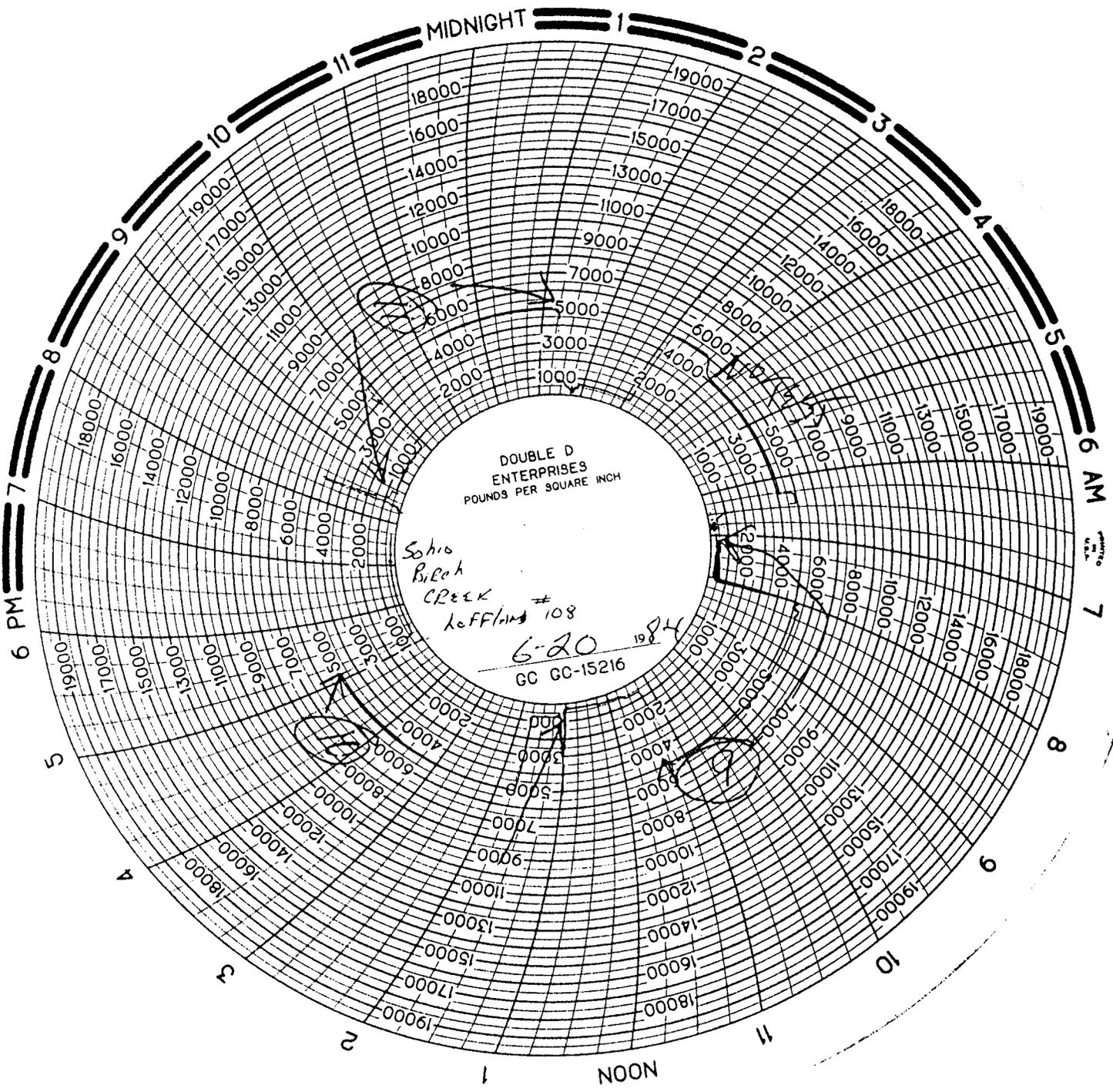
9

8

7

6

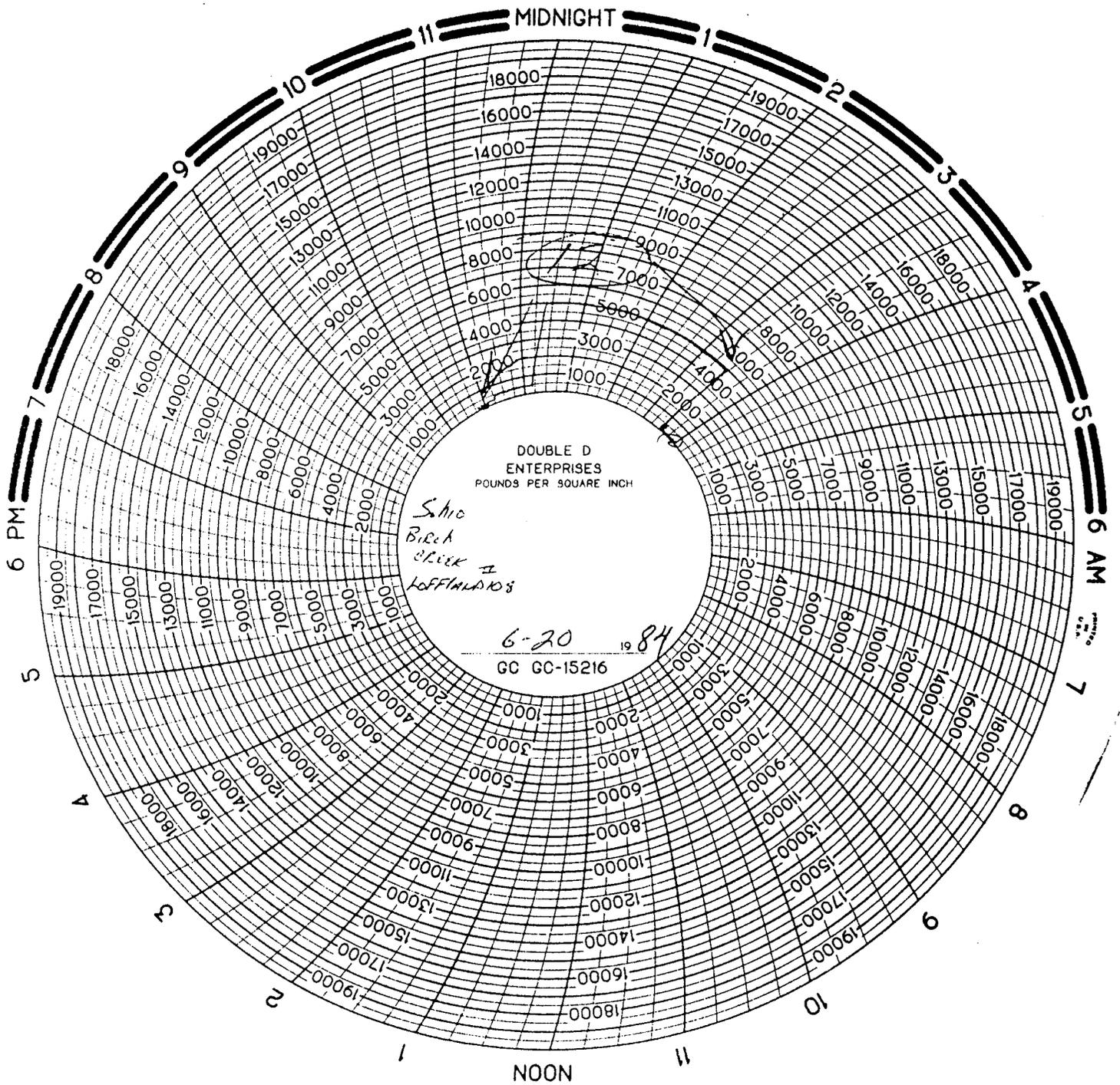
5



DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

Schio  
Brook  
Creek  
Koffling # 108

6-20 1984  
GC GC-15216



DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

*Sino  
Birch  
Stick #  
Loffmiller's*

*6-20 1984*  
GC GC-15216

MIDNIGHT

NOON

6 PM

6 AM

# DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE)..... 5-30-84

OIL CO.: ..... Sohio

WELL NAME & NUMBER..... Birch Creek 14-B

SECTION..... 14

TOWNSHIP..... 9-N

RANGE..... 6-E

COUNTY..... Rich, Utah

DRILLING CONTRACTOR..... hoffland 108

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE..... Louis Brown

RIG TOOL PUSHER.....

TESTED OUT OF..... Evanston

NOTIFIED PRIOR TO TEST: ..... Utah

COPIES OF THIS TEST REPORT SENT COPIES TO: ..... Utah - State

..... B.M.

..... Sohio Site Rep

..... Sohio - Office - Cusper

ORIGINAL CHART & TEST REPORT ON FILE AT: ..... Evanston..... OFFICE

RECEIVED  
JUN 21 1984  
DIVISION OF OIL  
GAS & MINING

| Company | Lease #                            | Well Name #  | Date of test | Rig # |
|---------|------------------------------------|--|--------------|-------|
|         | Time                               |  |              |       |
|         | 10 PM                              | Arrived ON Location Rig up to test manifold Rig inspecting BHA   |              |       |
| 1.      | 10 <sup>15</sup> -10 <sup>35</sup> | Back manifold valves 200 5 min OK 5000 15 min OK   |              |       |
| 2.      | 10 <sup>35</sup> -11 <sup>05</sup> | Switch valves test 2nd 5 manifold valves 200 5 min 5000 15 min OK  |              |       |
|         | 11 <sup>05</sup> -11 <sup>55</sup> | W/O Trip   |              |       |
|         | 11 <sup>55</sup> -12 <sup>15</sup> | Pick up Tools Rig up retriever retrieve wear ring rig down retriever Rig up Plug RUN & set Plug BACK joint out Pull joint fill stack w/ water close BLINDS OPEN HCR                    |              |       |
| 3       | 12 <sup>15</sup> -12 <sup>35</sup> | BLINDS 1st 3 manifold valves 1st manual ON Kill line relief manual ON choke line 200 5 min 5000 15 min OK<br>During this time I rigged up circulating sub & TIW & Dart ON TOP of joint |              |       |
|         | 12 <sup>35</sup> -12 <sup>50</sup> | Open BLINDS RUN joint tie Test Hose INTO sub close lower pipes   |              |       |
| 4       | 12 <sup>50</sup> / 1 <sup>10</sup> | lower pipes & TIW 200 5 min 5000 15 OK   |              |       |
| 5.      | 1 <sup>10</sup> -2 <sup>15</sup>   | Open lower pipes close uppers switch valves Test upper pipes 2nd manual ON Kill line & HCR 200 5 min OK 5000 leak ON Ram door  |              |       |

company

Lease Md Well Name #

Date of test

Rig #

t # Time

ON OFF DRILLERS SIDE OPEN  
PIPES TIGHTEN DOOR TEST  
ATTEMPT AGAIN SAME LEAK  
DECIDED TO OPEN DOOR &  
REPLACE SEAL WHILE ROUGH  
NECKS WERE OPENING DOOR  
I HELPED DRILLER KELLY UP &  
RIG UP TEST SUB SO I COULD  
TEST KELLY WHILE CHANGING SEAL

6. 2<sup>15</sup> - 2<sup>35</sup> lower Kelly 200 5 min OK  
5000 15 min OK

7. 2<sup>35</sup> - 3<sup>00</sup> Open Lower Kelly TEST  
upper Kelly 200 5 min  
5000 15 OK

3 - 4<sup>00</sup> While testing Kelly we opened  
Ram door I cleaned Ram  
door face & put in new seal  
helped driller Kelly back  
ran joint into plug & helped  
roughnecks tighten door

8. 4<sup>00</sup> - 4<sup>15</sup> Test upper pipes 2ND manual  
& TIW ON kill line HCR & relief valve  
ON choke line 5000 15 min OK  
low Test DONE ON # 5

9. 4<sup>15</sup> - 4<sup>40</sup> Switch valves Test upper  
pipes & part valve & 3rd  
manual & check valve ON kill  
line & 1st manual ON choke  
line 200 5 min 5000 15 OK

Company

Lease and Well Name #

Date of test

Rig #

T # Time

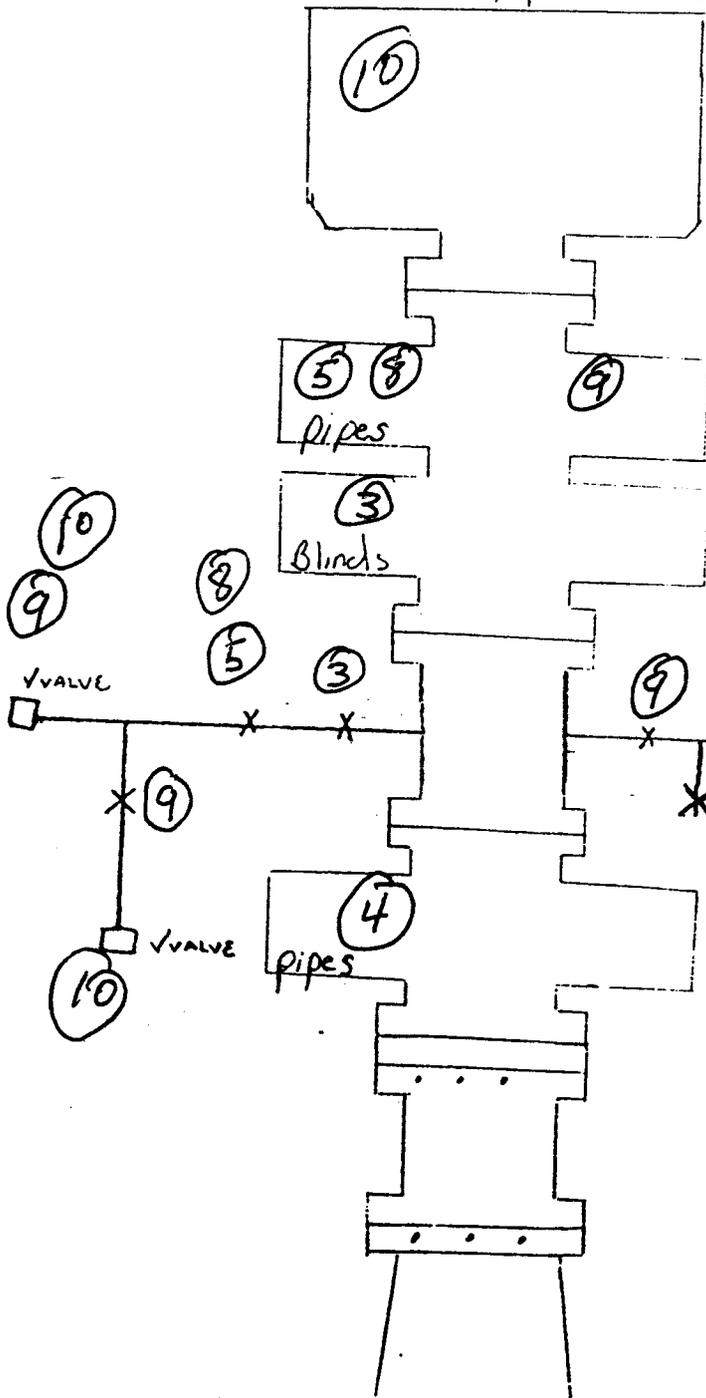
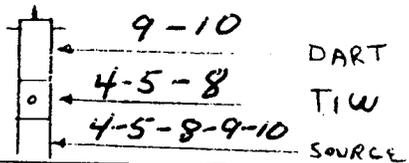
10

4<sup>40</sup> - 5<sup>10</sup>

Close HYDRIL OPEN PIPES  
Switch valves Test HYDRIL  
Dart Both checks & vertical  
manifold valve & Relief choke  
line valve & 1st 3 manifold  
valves 200 5 min 2500 15  
OK

5<sup>10</sup> 5<sup>45</sup>

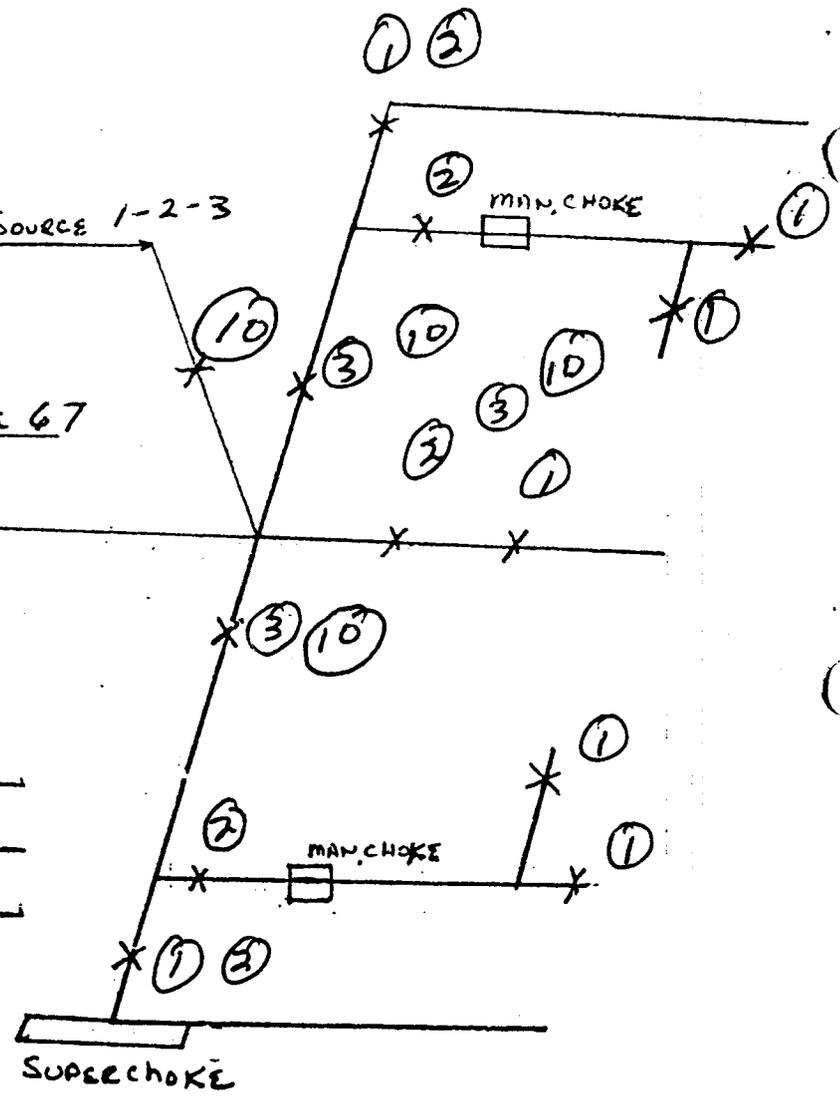
Pull Plug rig DOWN TOOLS  
LOAD TRUCK SPOOL UP  
PID NOT SET WEAR RING  
set all valves ON STACK  
& manifold as requested

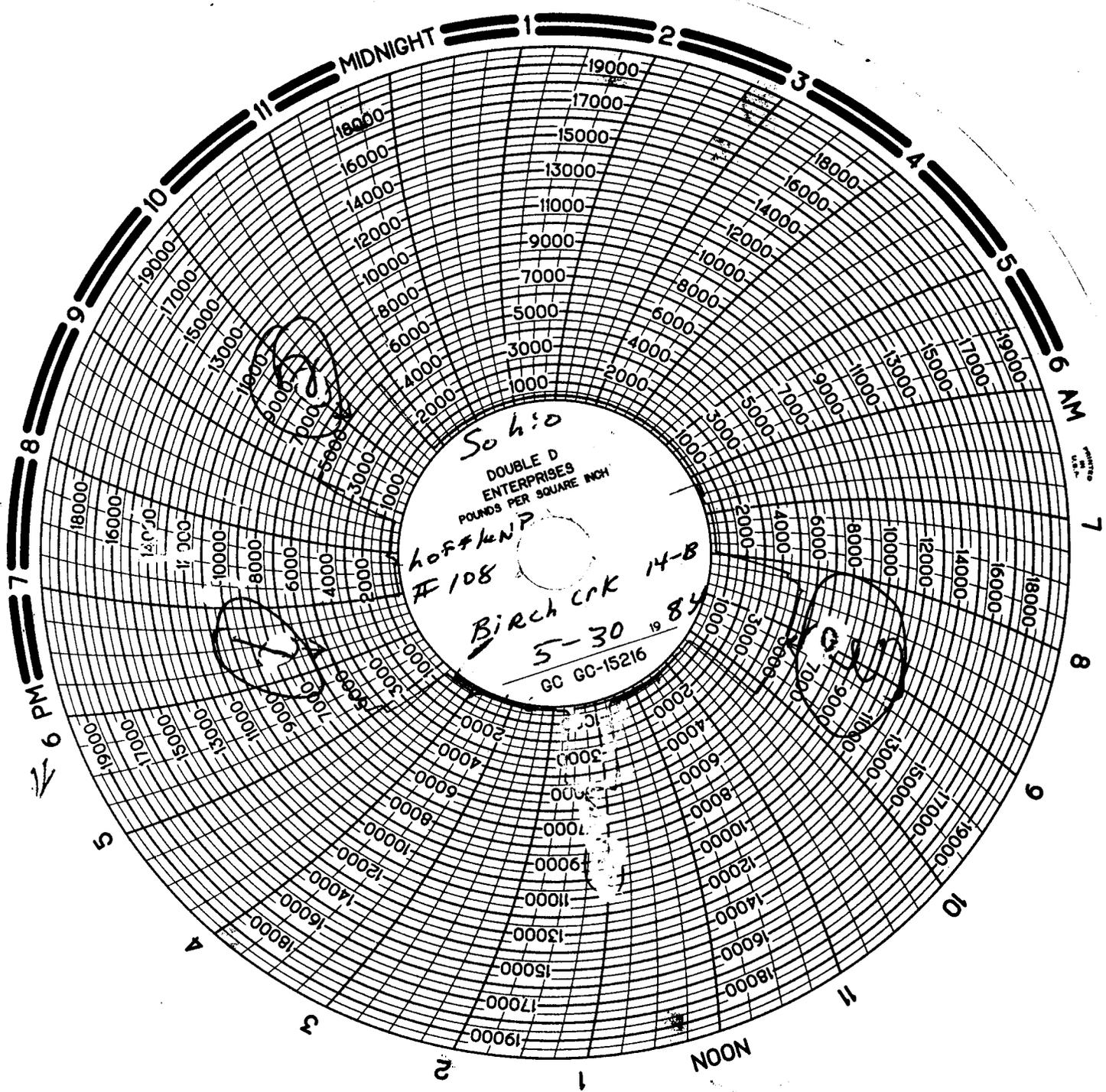


SOURCE 1-2-3

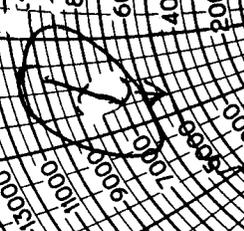
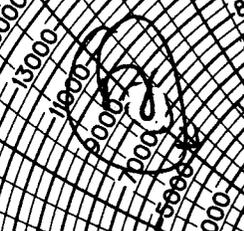
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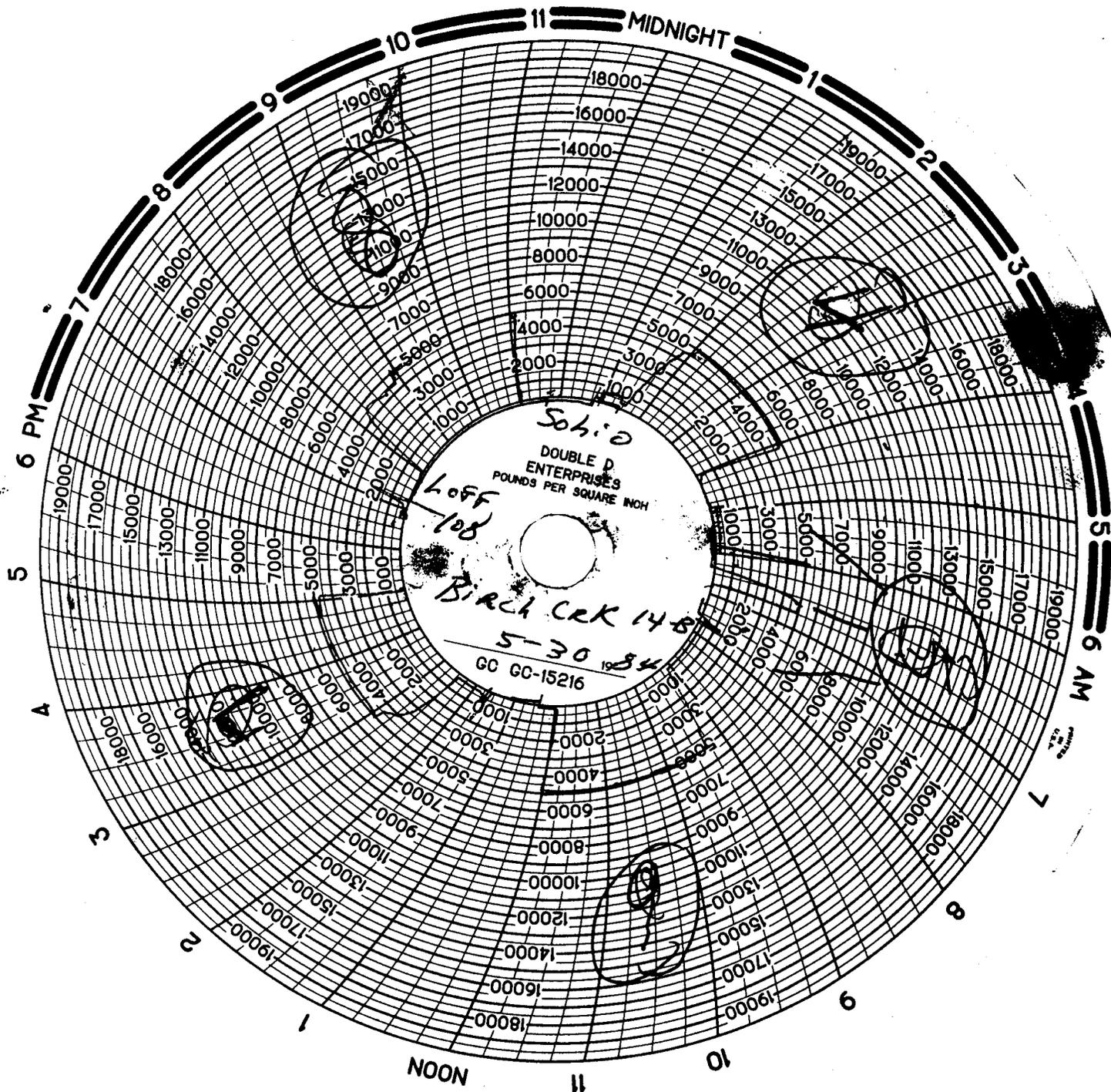
Sohio 84  
LOFFLAND #108  
BIRCHCREEK 14-B

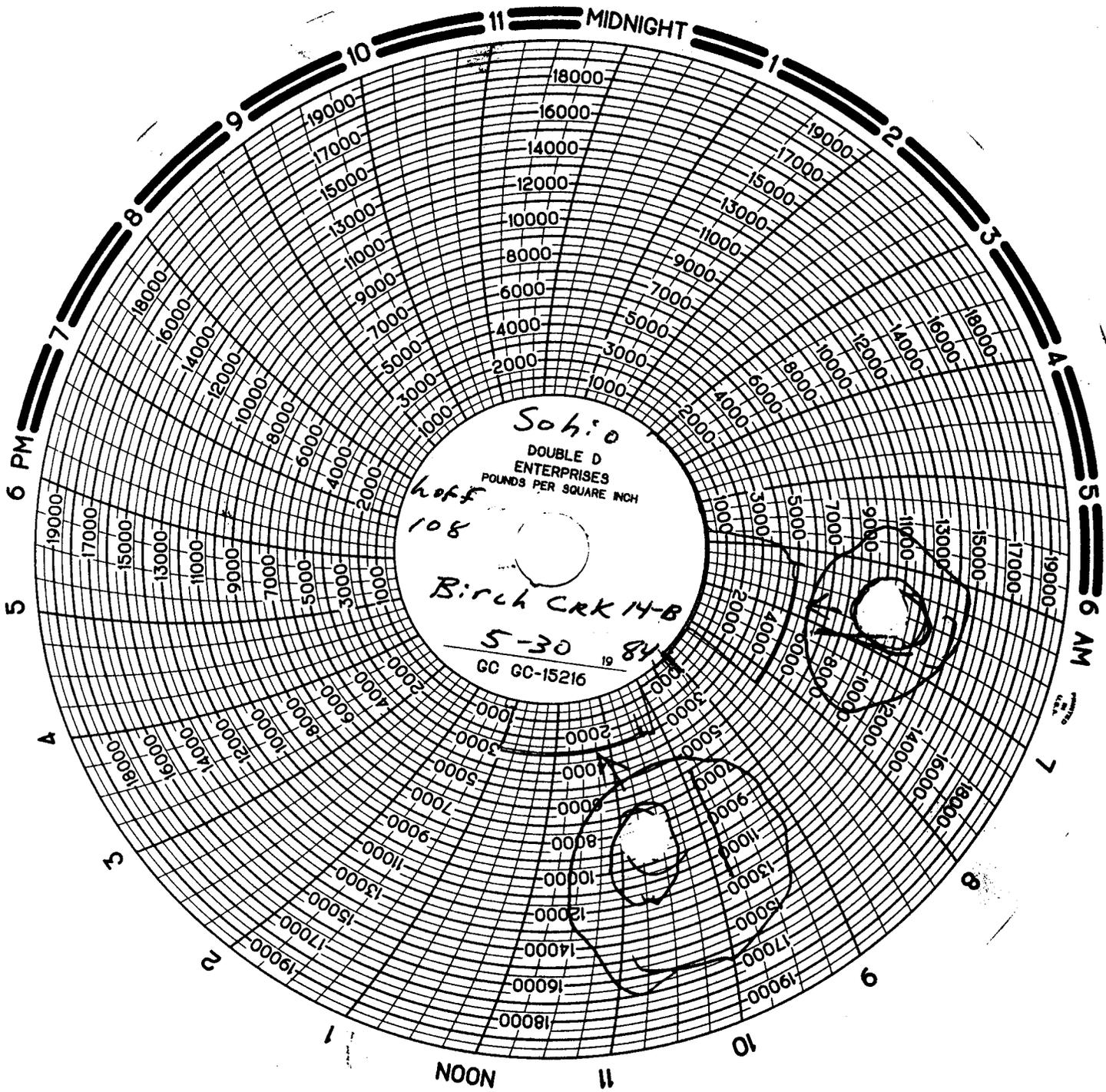




Sohio  
DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH  
hoffman  
#108  
Birch crk 14-B  
5-30 1984  
GC GC-15216







Sohio  
DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

GC  
108

BIRCH CRK 14-B

5-30 84  
GC GC-15216



**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL & GAS CONSERVATION  
 4241 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH 84114  
 533-5771

State Lease No. NA  
 Federal Lease No. U25112  
 Indian Lease No. NA  
 Fee & Pat. NA

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Rich FIELD/LEASE Birch Creek 14-B

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
June, 1984

Agent's Address \_\_\_\_\_ Company Sohio Petroleum Company  
 P. O. Box 30 Signed [Signature]  
Casper, WY 82602 Title District Administrator  
 Phone No. 307-237-3861

| Sec. and<br>¼ of ¼ | Twp. | Range | Well<br>No. | Days<br>Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas<br>(In thousands) | Gallons of<br>Gasoline<br>Recovered | Barrels of<br>Water (if<br>none, so state) | API NUMBER/REMARKS<br>(if drilling, depth; if shut down, cause;<br>date and result of test for gasoline<br>content of gas) |
|--------------------|------|-------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--|--|
| Sec. 14<br>NW NW   | 9N   | 6E    | 1           | Drilling         |                |         |                                  |                                     |  | TD: 11,825'<br>API# 43-033-30042<br>JUL 27 1984  |

**GAS: (MCF)**  
 Sold \_\_\_\_\_ 0  
 Flared/Vented \_\_\_\_\_ 0  
 Used On/Off Lease \_\_\_\_\_ 0

**OIL or CONDENSATE: (To be reported in Barrels)**  
 On hand at beginning of month \_\_\_\_\_ 0  
 Produced during month \_\_\_\_\_ 0  
 Sold during month \_\_\_\_\_ 0  
 Unavoidably lost \_\_\_\_\_ 0  
 Reason: \_\_\_\_\_ 0  
 On hand at end of month \_\_\_\_\_ 0

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

**CONFIDENTIAL**  
UNITED STATES

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1149' FWL, 1208' FNL (NW/4, NW/4)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
U25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 14, T9N, R6E

12. COUNTY OR PARISH | 13. STATE  
Rich | Utah

14. API NO.  
43-033-30042

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
6929' GR

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

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| REQUEST FOR APPROVAL TO:            |                          | SUBSEQUENT REPORT OF:    |
| TEST WATER SHUT-OFF                 | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT                      | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE                    | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL                         | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING                | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE                   | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES                        | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON*                            | <input type="checkbox"/> | <input type="checkbox"/> |
| (other) <u>MONTHLY WELL HISTORY</u> |                          |                          |

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

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

SEE ATTACHED SHEET:

MONTHLY HISTORY FOR June 1, 1984 - July 2, 1984

**RECEIVED**

JUL 9 1984

DIVISION OF OIL  
GAS & MINING

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

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

**ORIGINAL SIGNED BY:**

SIGNED W.H. Ward TITLE District Manager DATE July 3, 1984

(This space for Federal or State office use)

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

Well History  
Birch Creek 14-B

|         |              |          |                |
|---------|--------------|----------|----------------|
| 6-1-84  | Depth 10104' | Tripping | MW 8.7, Vis 40 |
| 6-2-84  | Depth 10128' | Drlg.    | MW 8.7, Vis 40 |
| 6-3-84  | Depth 10183' | Drlg.    | MW 8.7, Vis 43 |
| 6-4-84  | Depth 10232' | Reaming  | MW 8.7, Vis 43 |
| 6-5-84  | Depth 10274' | Drlg.    | MW 8.7, Vis 41 |
| 6-6-84  | Depth 10357' | Drlg.    | MW 8.6, Vis 43 |
| 6-7-84  | Depth 10375' | Drlg.    | MW 8.7, Vis 44 |
| 6-8-84  | Depth 10378' | Tripping | MW 8.6, Vis 42 |
| 6-9-84  | Depth 10381' | TIH.     | MW 8.7, Vis 46 |
| 6-10-84 | Depth 10425' | Drlg.    | MW 8.7, Vis 48 |
| 6-11-84 | Depth 10488' | Tripping | MW 8.7, Vis 47 |
| 6-12-84 | Depth 10568' | Drlg.    | MW 8.7, Vis 48 |
| 6-13-84 | Depth 10630' | Drlg.    | MW 8.7, Vis 46 |
| 6-14-84 | Depth 10754' | Drlg.    | MW 8.7, Vis 47 |
| 6-15-84 | Depth 10817' | Tripping | MW 8.6, Vis 48 |
| 6-16-84 | Depth 10909' | GIH.     | MW 8.6, Vis 49 |
| 6-17-84 | Depth 10938' | Drlg.    | MW 8.7, Vis 47 |
| 6-18-84 | Depth 11019' | GIH.     | MW 8.7, Vis 45 |
| 6-19-84 | Depth 11139' | GIH.     | MW 8.6, Vis 41 |
| 6-20-84 | Depth 11139' | Run Csg. | MW 8.6, Vis 47 |
| 6-21-84 | Depth 11139' | GIH      | MW 8.6, Vis 42 |
| 6-22-84 | Depth 11178' | Drlg.    | MW 8.7, Vis 42 |
| 6-23-84 | Depth 11258' | Drlg.    | MW 8.7, Vis 47 |
| 6-24-84 | Depth 11345' | Drlg.    | MW 8.7, Vis 43 |
| 6-25-84 | Depth 11424' | Drlg.    | MW 8.7, Vis 40 |
| 6-26-84 | Depth 11507' | Reaming  | MW 8.7, Vis 42 |
| 6-27-84 | Depth 11521' | Drlg.    | MW 8.7, Vis 41 |
| 6-28-84 | Depth 11631' | TOH      | MW 8.7, Vis 41 |
| 6-29-84 | Depth 11704' | Drlg.    | MW 8.7, Vis 42 |
| 6-30-84 | Depth 11772' | Drlg.    | MW 8.6, Vis 43 |
| 7-1-84  | Depth 11825' | Reaming  | MW 8.7, Vis 41 |
| 7-2-84  | Depth 11825' | POOH.    | MW 8.7, Vis 41 |

**CONFIDENTIAL**

**RECEIVED**

MAR 9 1984

DIVISION OF OIL  
GAS & MINING

Utah  
**RECEIVED**

# DOUBLE "D" ENTERPRISES

**JUL 23 1984**

B.O.P. Test Report

**DIVISION OF OIL  
GAS & MINING**

B.O.P. TEST PERFORMED ON (DATE)..... 7-09-84 .....

OIL CO.: Sohio .....

WELL NAME & NUMBER Birch Creek 14-B .....

SECTION 14 .....

TOWNSHIP 9-N .....

RANGE 6-E .....

COUNTY Rich County .....

DRILLING CONTRACTOR Loffland 108 .....

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE P. Dunham .....

RIG TOOL PUSHER.....

TESTED OUT OF Evanston, Wyoming .....

NOTIFIED PRIOR TO TEST: Utah Oil & Gas & B.L.M. .....

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative .....

Utah Oil & Gas .....

B.L.M. .....

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston .....OFFICE

DOUBLE D ENTERPRISES TESTING

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

Nº 2012

RENTED TO Sobio NO. DATE 7-9-84

ORDERED BY PEYTON DUNHAM LEASE BIRCH CREEK WELL NO. 14-B

Rental begins when tools leave our warehouse and continues until returned thereto. Rental day starts at midnight and part day shall be charged as full day.

TRANSPORTATION - TO AND FROM JOBS

DOUBLE D Portable BLOWOUT PREVENTER

First eight hour test period
Additional eight hours or fraction

Items Tested:

Table listing items tested: PIPE rams to 5000 #, BLINDS rams to 5000 #, PIPE rams to 5000 #, Choke Manifold 5000 #, Lower 500 #, Kelly Cock 5000 #, Safety Valve 5000 #, Upper Kill 5000 #

TEST SUBS 2 5/8 IF SUBS @

OTHER ONE 10" GRAY TEST

All Low TEST HEID 5 MIN @ 200 PSI
All High TEST HEID 15 MIN @ 5000 PSI
Hydril HEID 5 MIN @ 200 15 MIN @ 2500 PSI
Shut casing valve when done
ACC-PSI 2600
ANN-PSI 1300
RAM closing TIME 5 SEC.
HYDRIL closing TIME 22 SEC.
ALL VALVES PUT BACK THE WAY THEY WERE
ALL TEST HEID
CREW SET WEAR RING
NOTIFIED - UTAH OIL & GAS - BLM.

We Appreciate Your Business

THANKS Sobio

TOTAL . . . \$-

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

By: Ronnie J. Russell

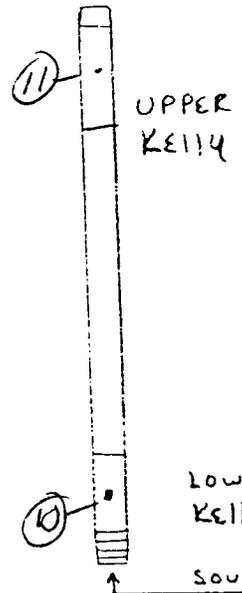
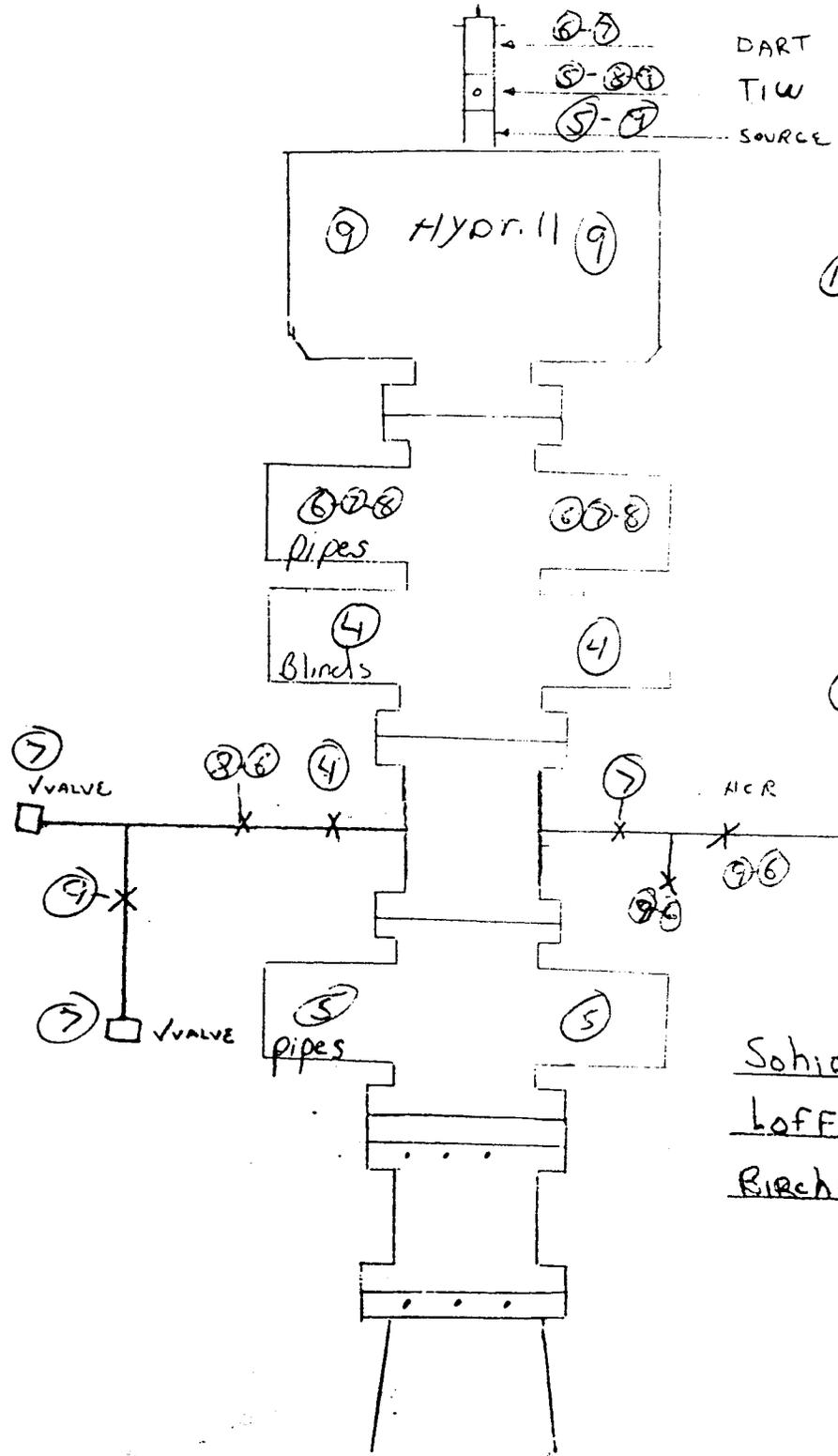
By:

| Company | Lease and Well Name # | Date of test   | Rig #    |
|---------|-----------------------|--|----------|
| So hio  | Birch Creek 14-B      | 7-9-84   | Loft 108 |
| Test #  | Time                  |  |          |
|         |                       | Get to Rig At 7:10   |          |
|         | 7:10 - 7:40           | Rig up HOSE TO MANIFOLD<br>Fill Truck with water<br>LINE OUT VALVES.   |          |
| ①       | 7:40 - 8:00           | TEST FIRST SET of VALVES <sup>OR 5000</sup> <sub>LOW 200 PSI</sub>   |          |
|         | 8:00 - 8:15           | CHANGE VALVES  |          |
| ②       | 8:15 - 8:35           | TEST NEXT SET  |          |
|         |                       | LOW 200 PSI 5min HIGH 5000 PSI 15min OK  |          |
|         | 8:35 - 8:40           | CHANGE TO NEXT SET   |          |
| ③       | 8:40 - 9:00           | TEST NEXT SET VALVES   |          |
|         |                       | LOW 200 5min HIGH 5000 15min OK  |          |
|         | 9:00 11:00            | wait on Rig to come out<br>HOLE. Wash off STACK in SUB<br>GET Plug up on Floor and SUB<br>PULL wear ring. OPEN casing<br>valve. wash out STACK.<br>Rig up Plug RUN Plug in HOLE<br>Screw out Ball joint CLOSE<br>Blinds. |          |
| ④       | 11:00 - 11:00         | TEST Blinds First manual Kill<br>LOW 200 5min OK HIGH 5000 PSI 15min OK<br>Run joint Back into Plug<br>Screw into make up TFW Dart<br>CLOSE BOTTOM PIPES   |          |
| ⑤       | 11:00 - 12:00         | TEST BOTTOM PIPES & TFW<br>LOW 200 PSI OK HIGH 5000 PSI 15min OK<br>CLOSE TOP PIPES OPEN BOTTOM PIPES<br>OPEN TFW CLOSE DART VALVE OPEN<br>First manual close SEC manual<br>Kill line side.                              |          |
| ⑥       | 12:00 - 12:00         | TEST TOP PIPES SEC Kill H.C.R<br>Dart LOW 200 PSI 5min OK HIGH 5000 <sup>OR</sup> 15min  |          |

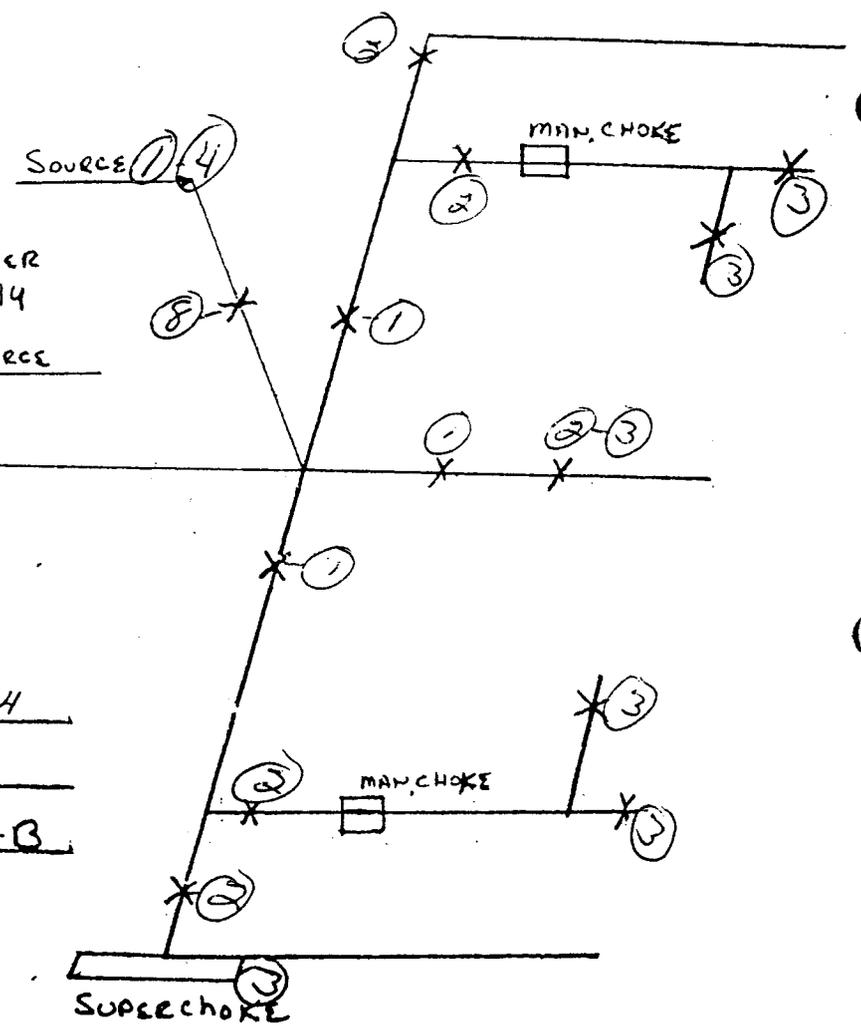
| Company | Lease and Well Name # | Date of test | Rig #    |
|---------|-----------------------|--------------|----------|
|         |                       |              | LOFF 108 |

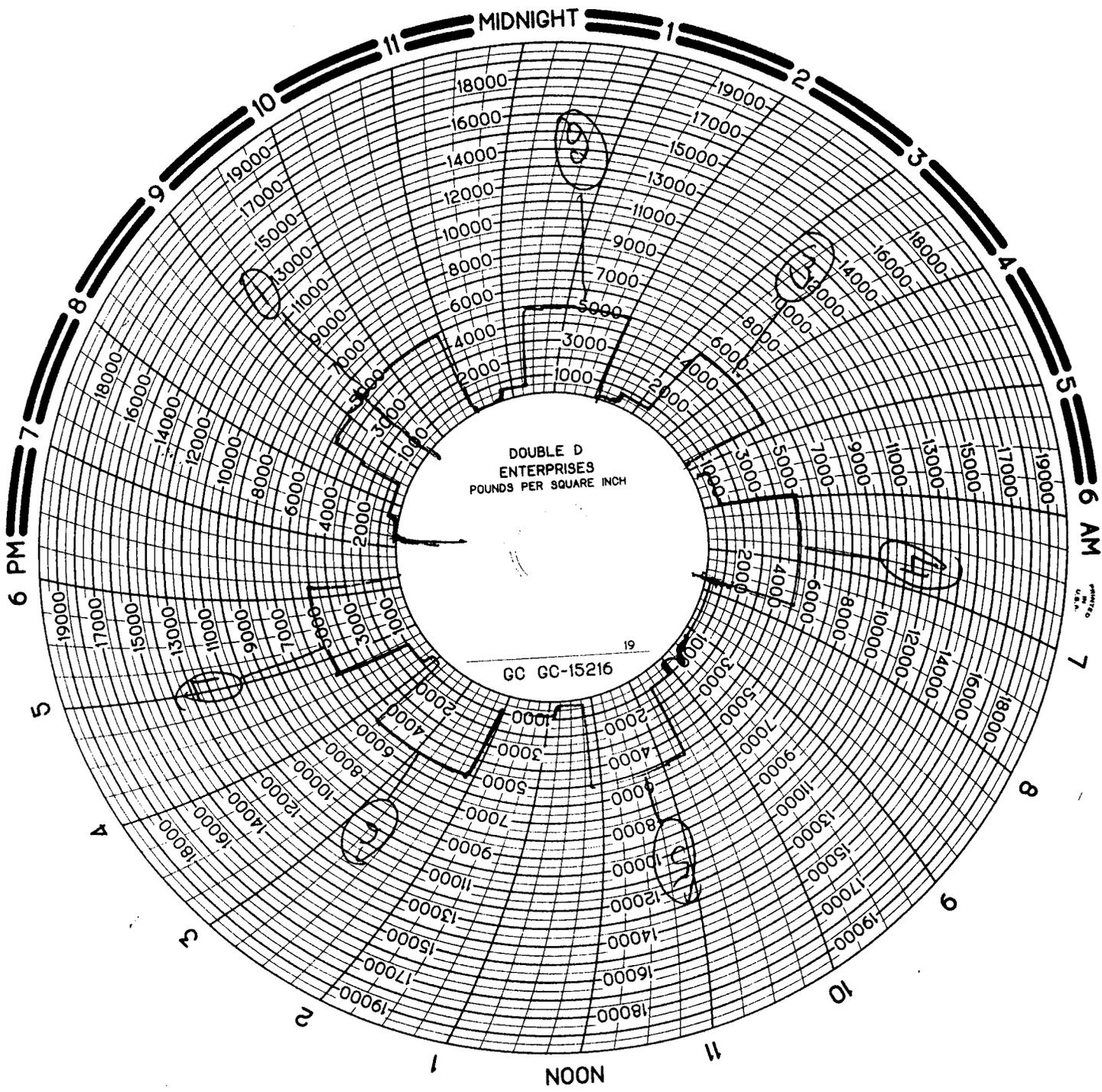
| It # | Time                       |  |
|------|----------------------------|--|
| 7    | 12:20 - 12:40              | TEST TOP PIPES THIRD MANUAL<br>KILL LINESIDE CHECK VALVE KILL SIDE<br>MANUAL CHOKE LINESIDE. TICW<br>LOW 5min 200PSI OK High 15min 5000PSI OK                          |
| 8    | 12:40 - 1:10               | TEST TOP PIPES - SECKILL - UP RIGHT<br>TICW LOW 5min 200PSI OK High 15min 5000PSI OK   |
| 9    | 1:10 - 1:30<br>1:30 - 1:50 | TEST HYDRA HCR FIRST MANUAL<br>KILL LINESIDE TICW LOW 5min 200PSI OK<br>High 15min 5000PSI OK<br>KELLY UP RIG UP SUB and<br>HOSE CLOSE UPPER KELLY and<br>LOWER KELLY. |
| 10   | 1:50 - 2:10                | TEST LOWER KELLY<br>LOW 200 PSI 5min OK High 5000 PSI 15min OK<br>OPEN LOWER KELLY   |
| 11   | 2:10 - 2:30                | TEST UPPER KELLY VALVE<br>LOW 200 PSI 5min OK High 5000 PSI 15min OK   |
|      | 2:30 - 3:00                | MARK OUT TICKET<br>RIG TRACK DOWN CLEAN UP   |
|      | 3:00 - 4:00                | TRAVEL TO SHOP   |

DATE- 7-9-84



Sohio 84  
 LOFFLAND #108  
 Birchcreek 14-B





DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

GC GC-15216

19

MADE IN U.S.A.



*file*

BLOW OUT PREVENTION TEST

NAME OF COMPANY: Schid  
WELL NAME: Buck Creek 14B  
SECTION: 14 TOWNSHIP 9N RANGE 8E COUNTY: Rich  
DRILLING CONTRACTOR: Laffland Bros.  
RIG # 108  
BOP TEST: DATE: 7/30/84  
TIME: 6:00 PM  
DRILLING: \_\_\_\_\_  
CASING: \_\_\_\_\_  
H<sub>2</sub>S: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

REPORTED BY: Bart  
TELEPHONE NO. Double D

DATE: 7/30/84 SIGNED DJ

→ Birch Creek 14-B well.

[ 9 5/8" @ 7066'

8 1/2" open hole TD 16469

Mark Pajak

(307) 237-3861

Preuss @ TD  
top 16315'

Gallatin 14955

Fish haven 14250

3 Forks 13220

Madison 10772

Weber 10340

Phos 9750

Din. 9408

Woodside 8778

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
INSPECTION RECORD

Operator SOHIO Petroleum Co. Lease U 25112  
 Contractor Loffland #108  
 Well No. Birch Creek 14B  
 Location NW NW Sec. 14 T. 9N R. 6E  
 Field Wildcat  
 County Rich State UT

Operation: Drilling X  
 Workover \_\_\_\_\_  
 Completion \_\_\_\_\_  
 Abandonment \_\_\_\_\_  
 Producing \_\_\_\_\_  
 Other \_\_\_\_\_

Individual Well Inspection

General:

Well Sign  BOP  Pollution control  Marker NA  
 Housekeeping  Safety  Surface use  Location NA

Remarks: Casing Depths: Conductor 30" 60'  
13 3/8" 1082'  
9 5/8" 7068'  
Drilling at 14,700' in Big Horn  
Pits in good condition

Lease and Facilities Inspection

Facilities inspected: \_\_\_\_\_  
 Identification \_\_\_\_\_ Pollution control \_\_\_\_\_  
 Housekeeping \_\_\_\_\_ Pits and ponds \_\_\_\_\_  
 Measurement facilities \_\_\_\_\_ Water disposal \_\_\_\_\_  
 Storage and handling facilities \_\_\_\_\_ Other \_\_\_\_\_

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Action: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Name D. Swindel Title Oil & Gas Field Specialist Date 8/2/84

April 5, 1984

Use:  for yes or satisfactory  
 for no or unsatisfactory  
 NA for not applicable

RECEIVED

AUG 3 1984

DIVISION OF OIL  
GAS & MINING

# DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE)..... 7-30-84 .....

OIL CO.: ..... Sohio .....

WELL NAME & NUMBER..... Birch Creek 14-B .....

SECTION ..... 14 .....

TOWNSHIP ..... 9N .....

RANGE ..... 6E .....

COUNTY ..... Rich .....

DRILLING CONTRACTOR..... Loffland #108 .....

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE..... Payton Dunham & Luis Brown .....

RIG TOOL PUSHER..... .....

TESTED OUT OF..... Evanston, Wyoming .....

NOTIFIED PRIOR TO TEST: ..... State Utah & B.L.M. .....

COPIES OF THIS TEST REPORT SENT COPIES TO: ..... Site Representative .....

..... Utah Oil & Gas .....

..... B.L.M. .....

ORIGINAL CHART & TEST REPORT ON FILE AT: ..... Evanston ..... OFFICE

DOUBLE D ENTERPRISES TESTING

DELIVERY TICKET

P.O. Box 560  
Shoshoni, Wyoming 82649  
307-876-2308

Nº 1959

RENTED TO

*Schlu*

NO.

*Last 108*

DATE

*7-30-57*

ORDERED BY

LEASE

*Birch Creek*

WELL NO.

*14-B*

Rental begins when tools leave our warehouse and continues until returned thereto. Rental day starts at midnight and part day shall be charged as full day.

TRANSPORTATION - TO AND FROM

DOUBLE D Portable BLOWOUT PRI

First eight hour test period

Additional eight hours or fraction

|                   |                |  |                       |  |
|-------------------|----------------|--|-----------------------|--|
| Items Tested:     | 200            |  |                       |  |
| <del>Blinds</del> | rams to 5000 # |  | Csg. to 200 #         |  |
| <del>Pipes</del>  | rams to 5000 # |  | Hydril B O P to 250 # |  |
| <del>Pipes</del>  | rams to 5000 # |  | Choke Line 5000 #     |  |
|                   | rams to #      |  |                       |  |

|                           |     |        |
|---------------------------|-----|--------|
| <del>Choke Manifold</del> | 200 | 5000 # |
| <del>Kelly Cock</del>     | 200 | 5000 # |
| <del>Safety Valve</del>   | 200 | 5000 # |
| <del>DART</del>           | 200 | 5000 # |

TEST SUBS

*4 1/2 IF Kelly SUB*

OTHER

*4 1/2 IF CR SUB*

*10" Gray*

*Shut HUR - 1st kill - 2nd manual vertical valves*  
*Shut casing valve - manifold (soft shut in)*  
*crew got work going*

*Thurk. [Signature]*

We Appreciate Your Business

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

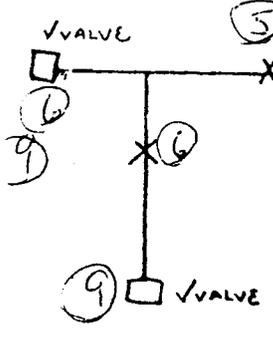
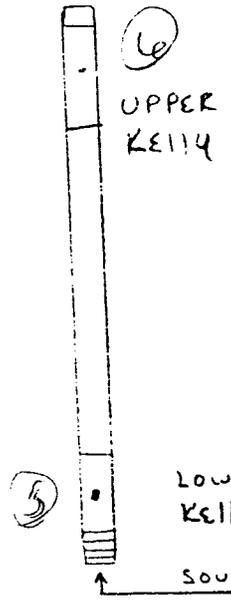
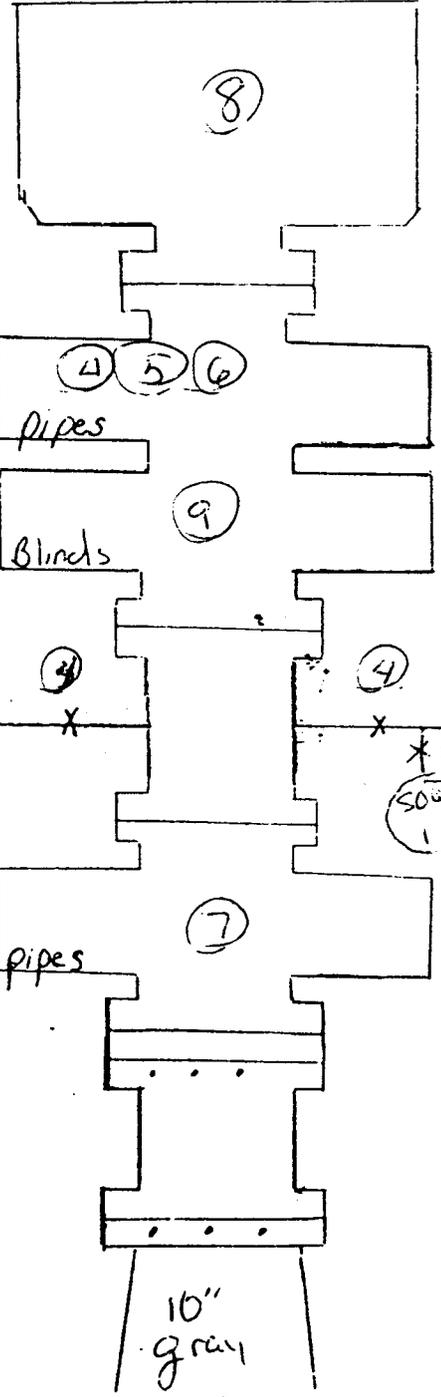
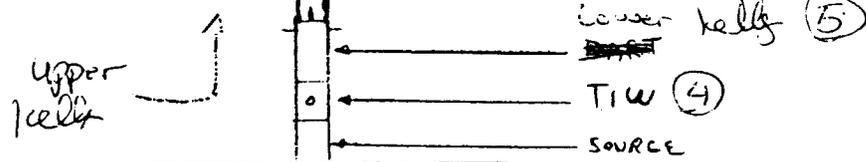
Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

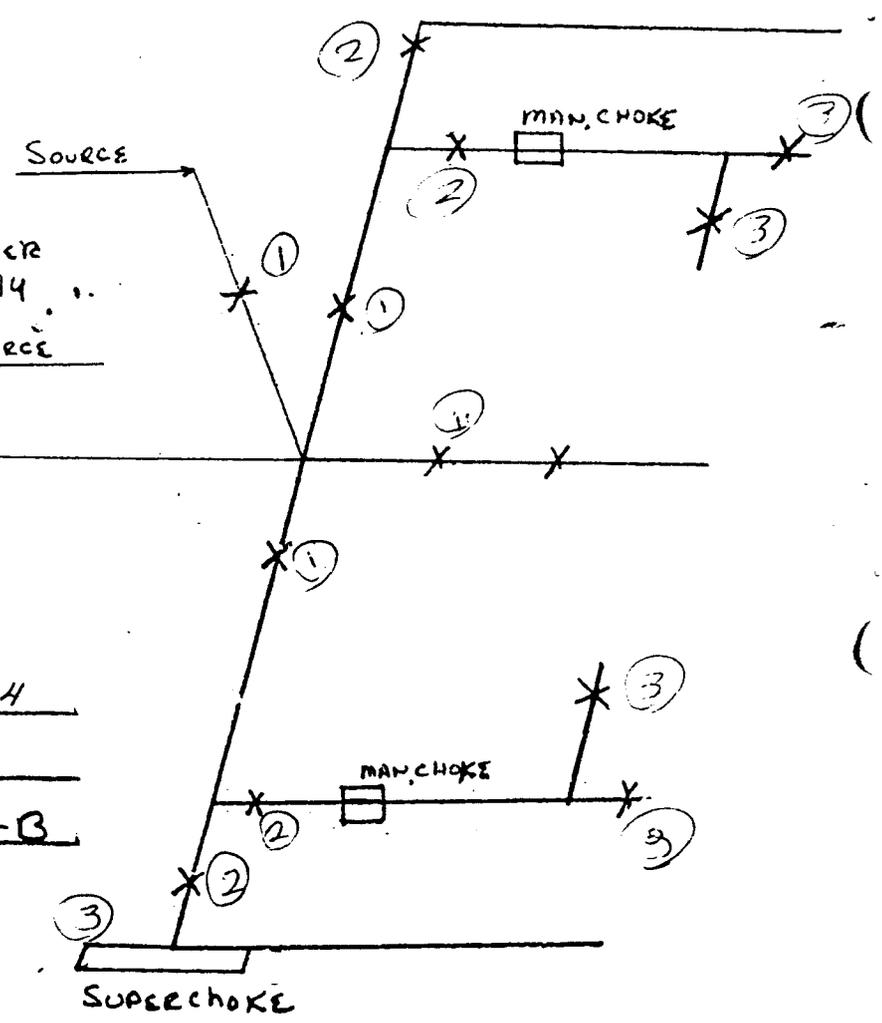
By:

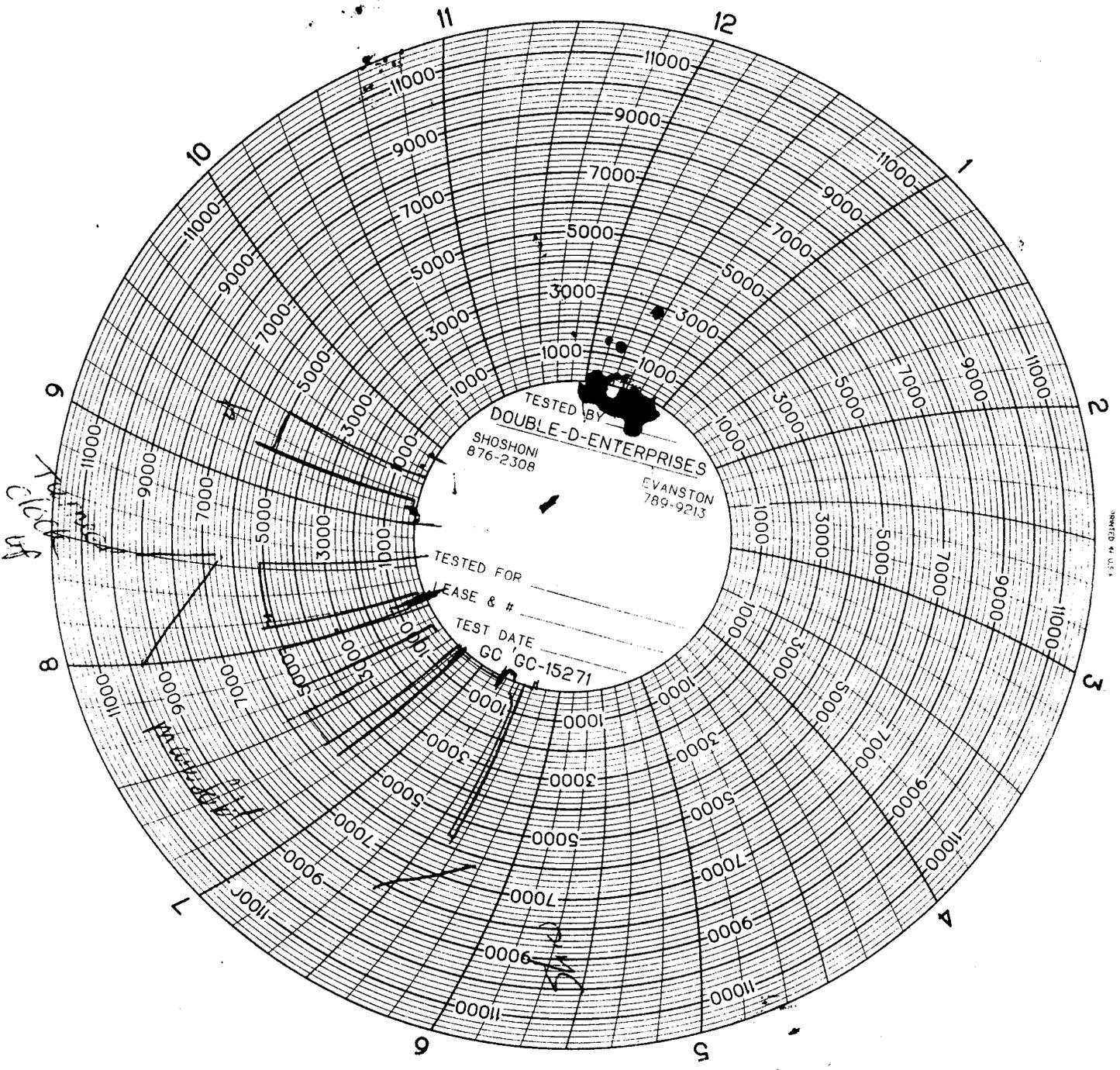
By:

| Company | Lease and Well Name # | Date of test  | Rig #    |
|---------|-----------------------|---|----------|
| Sohio   | Birch Creek 1473      | 7-30-84   | Jolt 108 |
| Time    | Time                  |   |          |
|         | 4:30 - 5:00           | got truck ready   |          |
|         | 6:00                  | Arrived on location                                     |          |
| ①       | 6:41                  | 1st manifold low  |          |
|         |                       | SAME High   |          |
|         | Blew                  | an oil ring changed it out.                             |          |
|         | 6:52                  | High Test on 1st manifold                               |          |
| ②       | 7:11                  | Second manifold low Test                                |          |
|         | 7:15                  | High Test   |          |
| ③       | 7:36                  | 3rd manifold low Test                                   |          |
|         | 7:41                  | High Test   |          |
|         | 8:00 - 9:30           | TRIPPING  |          |
| ④       | 9:30 - 10:00          | Rig up on Kelly & plug                                  |          |
|         | 10:00                 | low Test on Top Pipes - 1st set of wing valves          |          |
|         | 10:05                 | same Test high  |          |
|         |                       | Smooth Trucks   |          |
| ⑤       | 10:35                 | Lower Kelly - Top pipes 2nd set of wing valves Low Test |          |
| ⑥       | 10:40                 | High some thing   |          |
|         | 11:03                 | TOP Kelly Top pipes 3RD kill valves - JHR               |          |
| ⑦       | 11:08                 | same thing high   |          |
|         | 11:26                 | Bottom Pipes Low Test                                   |          |
|         | 11:31                 | SAME High   |          |
| ⑧       | 11:59                 | HYDRIC LOW TEST 1200 mm pressure                        |          |
|         | 12:04                 | High Test   |          |
| ⑨       | 12:28                 | B'inds out 5000 kill valve Low                          |          |
|         | 12:33                 | High Test   |          |
|         | 12:40                 | DAPT valve Low  |          |
| ⑩       | 12:53                 | High High Test  |          |



Sohio 84  
 LOFFLAND #108  
 BIRCHCREEK 14-B  
 7-30-84





TESTED BY  
**DOUBLE-D-ENTERPRISES**  
SHOSHONI  
876-2308

EVANSTON  
789-9213

TESTED FOR

LEASE & #

TEST DATE

GC GC-15271

*Handwritten notes:*  
K  
C  
D  
S  
S

*Handwritten notes:*  
11  
10  
9  
8  
7



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**CONFIDENTIAL**

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1149' FWL, 1208' ENL (NW/4, NW/4)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON\*

SUBSEQUENT REPORT OF:

- 
- 
- 
- 
- 
- 
- 
- 

(other) MONTHLY WELL HISTORY

**RECEIVED**

AUG 6 1984

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

DIVISION OF OIL  
GAS & MINING

5. LEASE  
U25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY-OR AREA  
Sec. 14, T9N, R6E

12. COUNTY OR PARISH | 13. STATE  
Rich | Utah

14. API NO.  
43-033-30042

15. ELEVATIONS (SHOW OF, KOB, AND WD)  
6929' GR

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.)

SEE ATTACHED SHEET:

MONTHLY HISTORY FOR July 3, 1984 - August 1, 1984

**CONFIDENTIAL**

Mailed 8/2/84

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

Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the information furnished is true and correct

SIGNED W.H. Ward TITLE District Manager DATE \_\_\_\_\_

(This space for Federal or State office use)

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

**CONFIDENTIAL**

Well History-Birch Creek 14-B

July 3, 1984 - August 1, 1984

|         |               |           |                |
|---------|---------------|-----------|----------------|
| 7/3/84  | Depth 11,825' | POOH.     | MW 8.7, Vis 40 |
| 7/4/84  | Depth 11,845' | Drlg.     | MW 8.7, Vis 45 |
| 7/5/84  | Depth 11,913' | Drlg.     | MW 8.7, Vis 45 |
| 7/6/84  | Depth 12,053' | Tripping  | MW 8.7, Vis 43 |
| 7/7/84  | Depth 12,128' | Drlg.     | MW 8.7, Vis 45 |
| 7/8/84  | Depth 12,244' | Tripping  | MW 8.7, Vis 43 |
| 7/9/84  | Depth 12,414' | Drlg.     | MW 8.7, Vis 42 |
| 7/10/84 | Depth 12,488' | Run Csg.  | MW 8.7, Vis 43 |
| 7/11/84 | Depth 12,551' | Drlg.     | MW 8.7, Vis 44 |
| 7/12/84 | Depth 12,718' | Surveying | MW 8.7, Vis 44 |
| 7/13/84 | Depth 12,740' | Drlg.     | MW 8.7, Vis 44 |
| 7/14/84 | Depth 12,862' | Drlg.     | MW 8.7, Vis 45 |
| 7/15/84 | Depth 13,021' | Trip      | MW 8.7, Vis 46 |
| 7/16/84 | Depth 13,109' | Drlg.     | MW 8.7, Vis 42 |
| 7/17/84 | Depth 13,217' | TIH       | MW 8.7, Vis 42 |
| 7/18/84 | Depth 13,333' | Drlg.     | MW 8.6, Vis 43 |
| 7/19/84 | Depth 13,444' | TIH       | MW 8.7, Vis 45 |
| 7/20/84 | Depth 13,568' | Drlg.     | MW 8.6, Vis 44 |
| 7/21/84 | Depth 13,571' | Ream.     | MW 8.7, Vis 45 |
| 7/22/84 | Depth 13,592' | Drlg.     | MW 8.7, Vis 44 |
| 7/23/84 | Depth 13,749' | Drlg.     | MW 8.7, Vis 45 |
| 7/24/84 | Depth 13,805' | Drlg.     | MW 8.8, Vis 48 |
| 7/25/84 | Depth 13,963' | Drlg.     | MW 8.8, Vis 43 |
| 7/26/84 | Depth 14,041' | Trip.     | MW 8.7, Vis 44 |
| 7/27/84 | Depth 14,041' | Trip.     | MW 8.8, Vis 44 |
| 7/28/84 | Depth 14,130' | Drlg.     | MW 8.7, Vis 47 |
| 7/29/84 | Depth 14,179' | Tripping  | MW 8.8, Vis 46 |
| 7/30/84 | Depth 14,308' | Drlg.     | MW 8.8, Vis 45 |
| 8/1/84  | Depth 14,508' | Drlg.     | MW 8.7, Vis 47 |

CONFIDENTIAL

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

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 Dry Hole

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P. O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1149' FWL, 1208' FNL (NW/4, NW/4)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6929' GR

RECEIVED

AUG 20 1984

DIVISION OF OIL  
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U 25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
Sec 14, T9N, R6E

12. COUNTY OR PARISH  
RICH

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"/> | 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) _____                                  |  |

(Other) Downhole disposal

(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.)\*

Approval is requested to dispose of drilling fluids by downhole injection. The following information is submitted for your review.

- 1) + 30000 barrels will be injected
- 2) Injection pressure- less than 2000psi
- 3) Probable injection zones  
Dinwoody - 9400' - 9500'  
Madison - 11600' - 11700'

A temperature survey will be run during injection operations to determine the exact area of fluid uptake.

- 4) 9 5/8" csg is set at 7068' with cement to + 4510'.

Disposal will commence by early next week (+ 8/21) if approved. Contact myself or Terry Rooney @ (307) 237-3861 if further information is needed.

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

SIGNED R. D. Vassar

(This space for Federal or State office use)

APPROVED BY THE STATE  
DATE 8/17/84

TITLE DEPT. OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 8/22/84 BY: John R. B...

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

O + 2 Ron Firth DOGM  
cc: Bill Martens  
J. H. Walters  
T. Rooney File

See Conditions of Approval on approval letter.

\*See Instructions on Reverse Side

ORAL APPROVAL TO PLUG AND ABANDON WELL

file

Operator Sohio Representative Mark Pajak (307) 237-3861

Well No. 14-B Location Nw 1/4 Nw 1/4 Section 14 Township 9N Range 6E

County Rich Field Wildcat State Ut

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

T.D. 16469 Size hole and Fill per sack 8 1/2" Mud Weight and Top 8.8 #/gal. \_\_\_\_\_

| Casing Size        | Set At       | Top of Cement | To Be Pulled | Plugging Requirements                 |              |              |
|--------------------|--------------|---------------|--------------|---------------------------------------|--------------|--------------|
|                    |              |               |              | From                                  | To           | Sacks Cement |
| <u>13 3/8</u>      | <u>1082</u>  | _____         | _____        | <u>① 16269</u>                        | <u>16469</u> | _____        |
| <u>9 5/8</u>       | <u>7066</u>  | _____         | _____        | <u>② 14050</u>                        | <u>14250</u> | _____        |
| <u>Formation</u>   | <u>Top</u>   | <u>Base</u>   | <u>Shows</u> | <u>③ 11800</u>                        | <u>12000</u> | _____        |
| <u>Preuss</u>      | <u>16315</u> | <u>TD</u>     | _____        | <u>④ 9600</u>                         | <u>9800</u>  | _____        |
| <u>Gallatin</u>    | <u>14955</u> | _____         | _____        | <u>⑤ 6900</u>                         | <u>7150</u>  | _____        |
| <u>Fish Haven</u>  | <u>14250</u> | _____         | _____        | <u>⑥ 4800</u>                         | <u>5000</u>  | _____        |
| <u>Three Forks</u> | <u>13220</u> | _____         | _____        | <u>⑦ 2000</u>                         | <u>2200</u>  | _____        |
| <u>Madison</u>     | <u>10772</u> | _____         | _____        | <u>⑧ 300' @ surf.</u>                 | _____        | _____        |
| <u>Weber</u>       | <u>10340</u> | _____         | _____        | <u>⑨ Plug down backside of 9 5/8"</u> | _____        | _____        |
| <u>Phosphoria</u>  | <u>9750</u>  | _____         | _____        | _____                                 | _____        | _____        |
| <u>Dinwoody</u>    | <u>9408</u>  | _____         | _____        | _____                                 | _____        | _____        |
| <u>Woodside</u>    | <u>8778</u>  | _____         | _____        | _____                                 | _____        | _____        |

REMARKS

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

Approved by JRB Date 8/21/84 Time 1430 a.m.  
p.m.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

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

August 27, 1984

Sohio Petroleum Company  
P.O. Box 30  
Casper, Wyoming 82602

Gentlemen:

Re: Approval to Dispose of Drilling Fluid, Well No. Birch Creek 14B  
Section 14, T9N, R6E Rich County, Utah

The Division has reviewed your recent request for a one-time disposal of drilling fluid in the above referenced well. The request is approved with the following conditions:

1. The disposal of fluid will take place in conjunction with the plug and abandonment procedure approved by this office on August 21, 1984.
2. The fourth cement plug at 9600'-9800' will be set and tagged. Fluid will be disposed between this plug and the casing shoe to avoid disposal of fluid into the Madison formation.
3. A summary of the drilling fluid composition will be submitted to this office along with the subsequent report of abandonment.
4. Surface injection pressure during disposal will remain below 2000 psi.
5. Because the disposal operations will occur in conjunction with cementing operations, the requirement for a temperature survey is waived.

Page 2  
Sohio Petroleum Co.  
August 27, 1984

Please report immediately any additional modification to the submitted procedure for disposal to John Baza of this office.

Best Regards,

A handwritten signature in cursive script, appearing to read "Dianne R. Nielson".

Dianne R. Nielson

JRB/jmc  
cc: R.J. Firth  
J.R. Baza  
96840

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL & GAS CONSERVATION**  
 4241 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH 84114  
 533-5771

State Lease No. NA  
 Federal Lease No. U25112  
 Indian Lease No. NA  
 Fee & Pat. NA

CORRECTED REPORT

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Rich FIELD/LEASE Birch Creek 14-B

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
August, 19 84

Agent's Address P. O. Box 30 Company Sohio Petroleum Company  
Casper, WY 82602 Signed [Signature]  
 Phone No. (307) 237-3861 Title District Administrator

| Sec. and % of % | Twp. | Range | Well No. | Days Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas (In thousands) | Gallons of Gasoline Recovered | Barrels of Water (if none, so state) | API NUMBER/REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-----------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|---|
| Sec 14<br>NW NW | 9N   | 6E    | 1        | Plugged       |                |         |                               |                               |                                      | TD: 16,515' <i>VC</i><br>API#43-033-30042<br><br>Well Plugged &<br>Abandoned 8-26-84<br><br>OCT 22 1984           |

**RECEIVED**

OCT 22 1984  
 DIVISION OF OIL  
 GAS & MINING

**CONFIDENTIAL**

**GAS: (MCF)**  
 Sold 0  
 Flared/Vented 0  
 Used On/Off Lease 0

**OIL or CONDENSATE: (To be reported in Barrels)**  
 On hand at beginning of month 0  
 Produced during month 0  
 Sold during month 0  
 Unavoidably lost 0  
 Reason: 0  
 On hand at end of month 0

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
INSPECTION RECORD

Operator SOHIO Petroleum Co. Lease U 25112

Contractor \_\_\_\_\_

Well No. Birch Creek 14B

Location NW NW Sec. 14 T. 9N R. 6E

Field Wildcat

County Rich State UT

Operation: Drilling \_\_\_\_\_  
Workover \_\_\_\_\_  
Completion \_\_\_\_\_  
Abandonment X \_\_\_\_\_  
Producing \_\_\_\_\_  
Other \_\_\_\_\_

Individual Well Inspection

General:

|                        |                  |   |  |
|------------------------|------------------|---|--|
| Well Sign <u>NA</u>    | BOP <u>NA</u>    | Pollution control <input checked="" type="checkbox"/> | Marker <input checked="" type="checkbox"/>   |
| Housekeeping <u>NA</u> | Safety <u>NA</u> | Surface use <input checked="" type="checkbox"/>       | Location <input checked="" type="checkbox"/> |

Remarks: P&A marker set in place  
Pits open, fenced, some fluids in pits  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Lease and Facilities Inspection

Facilities inspected:

|                                       |                         |
|---------------------------------------|-------------------------|
| Identification _____                  | Pollution control _____ |
| Housekeeping _____                    | Pits and ponds _____    |
| Measurement facilities _____          | Water disposal _____    |
| Storage and handling facilities _____ | Other _____             |

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Action: Requires a follow-up inspection when reclamation work is completed  
\_\_\_\_\_  
\_\_\_\_\_

Name Swindel/Jarvis Title Oil & Gas Field Specialists Date 9/5/84

Use:  for yes or satisfactory  
 for no or unsatisfactory  
NA for not applicable

April 5, 1984

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other  Dry Hole

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1149' FWL, 1208' FNL (NW/NW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

5. LEASE  
U-25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 14, T9N, R6E

12. COUNTY OR PARISH  
Rich

13. STATE  
Utah

14. API NO.  
43-033-30042

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
6929' GR

REQUEST FOR APPROVAL TO:      SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF      

FRACTURE TREAT      

SHOOT OR ACIDIZE      

REPAIR WELL      

PULL OR ALTER CASING      

MULTIPLE COMPLETE      

CHANGE ZONES      

ABANDON\*      

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

**RECEIVED**

SEP 7 1984

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

**DIVISION OF OIL  
GAS & MINING**

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

Verbal approval was received 8/22/84 from Bill Martens, BLM and John Baza, DOGM to Mark Pajak, Sohio. The procedure is outlined on the attached sheet.

A stipulation of the Approval to Dispose of Drilling Fluids dated August 27, 1984 was that a summary of drilling fluid composition be submitted. Due to the failure of injection attempts, Mr. John Baza agreed on 9/4/84 that such information would not be necessary.

The rig has been moved off. All holes will be filled and the reserve pit fenced. Enhanced evaporation of reserve pit fluids will begin upon receipt of approval from the Department of Health.

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

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

SIGNED W.H. Ward TITLE Dist. Manager DATE 9/5/84

(This space for Federal or State office use)

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

cc: Frank Snell, BLM, Salt Lake  
Bill Martens, BLM  
John Baza, DOGM  
J.H. Walters  
T. Rooney  
File

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

DATE: 9/7/84  
BY: John R. Baza

\*See Instructions on Reverse Side

**CONFIDENTIAL**

Plug #1: 16515-16269, 100 sx. Cl. H  
Plug #2: 14250-14050, 85 sx. Cl. H  
Plug #3: 12000-11800, 85 sx. Cl. H  
Plug #4: 9800- 9594, 125 sx. Cl. H

Cmt. was tagged @ 9594'.  
Retainer was set at 7012'.  
Formation was pressured to  
2000# for 30 minutes in an  
attempt to inject reserve  
pit fluids with no success.

Plug #5: 7009- 6798, 85 sx. Cl. G  
Plug #6: 5000- 4800, 80 sx. Cl. H  
Plug #7: 2200- 2000, 80 sx. Cl. H  
Plug #8: 300- surf, 120 sx. Cl. H

Spot 15 sx. Cl. H down 9-5/8"  
annulus. Rig released 10:00  
PM, 8/26/84.

**CONFIDENTIAL**



SOHIO PETROLEUM COMPANY  
EXPLORATION AND PRODUCTION

P. O. BOX 30  
CASPER, WYOMING 82602

Well History-Birch Creek 14-B

August 8, 1984 - September 1, 1984

|         |                        |          |                |
|---------|------------------------|----------|----------------|
| 8/2/84  | Depth 14,669'          | Drlg.    | MW 8.7, Vis 46 |
| 8/3/84  | Depth 14,911'          | Drlg.    | MW 8.6, Vis 50 |
| 8/4/84  | Depth 14,951'          | Logging  | MW 8.6, Vis 47 |
| 8/5/84  | Depth 14,951'          | RD.      | MW-NA, Vis NA  |
| 8/6/84  | Depth 15,083'          | Drlg.    | MW 8.6, Vis 52 |
| 8/7/84  | Depth 15,270'          | Drlg.    | MW 8.6, Vis 46 |
| 8/8/84  | Depth 15,344'          | TIH      | MW 8.6, Vis 47 |
| 8/9/84  | Depth 15,464'          | Drlg     | MW 8.7, Vis 53 |
| 8/10/84 | Depth 15,609'          | Drlg.    | MW 8.7, Vis 53 |
| 8/11/84 | Depth 15,761'          | Drlg.    | MW 8.7, Vis 48 |
| 8/12/84 | Depth 15,932'          | TOH.     | MW 8.7, Vis 45 |
| 8/13/84 | Depth 15,986'          | Sur.     | MW 8.7, Vis 53 |
| 8/14/84 | Depth 16,122'          | Drlg.    | MW 8.7, Vis 50 |
| 8/15/84 | Depth 16,290'          | Drlg.    | MW 8.7, Vis 47 |
| 8/16/84 | Depth 16,317'          | Drlg.    | MW 8.7, Vis 46 |
| 8/17/84 | Depth 16,414'          | Drlg.    | MW 8.6, Vis 44 |
| 8/18/84 | Depth 16,445'          | Trpg     | MW 8.7, Vis 50 |
| 8/19/84 | Depth 16,476'          | Trpg.    | MW 8.7, Vis 49 |
| 8/20/84 | Depth 16,513'          | Ream.    | MW 8.7, Vis 48 |
| 8/21/84 | Depth 16,535'          | Log.     | MW 8.8, Vis 54 |
| 8/22/84 | Depth 16,515'          | Log.     |                |
| 8/23/84 | Depth 16,515'          | Log.     |                |
| 8/24/84 | Depth 16,515'          | Plug.    |                |
| 8/25/84 | Depth 16,515'          | Set plug |                |
| 8/26/84 | Depth 16,515'          | Fin plug |                |
| 8/27/84 | Depth 16,515'          | Rels.    |                |
| 8/28/84 | Depth 16,515'          | RD       |                |
| 8/29/84 | Depth 16,515'          | Move out |                |
| 8/30/84 | Depth 16,515'          | RDRT     |                |
| 8/31/84 | TD 16,515'             | Move out |                |
| 9/1/84  | Moved Rig-Final Report |          |                |

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Sohio Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1149' FWL, 1208' FNL (NW/4, NW/4)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON\*

SUBSEQUENT REPORT

- 
- 
- 
- 
- 
- 
- 
- 

(other) MONTHLY WELL HISTORY

5. LEASE  
U25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
14B

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 14, T9N, R6E

12. COUNTY OR PARISH | 13. STATE  
Rich | Utah

14. API NO.  
43-033-30042

15. ELEVATIONS (SHOW DF, KOB, AND WD)  
6920' GR.

RECEIVED

SEP 10 1984

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

DIVISION OF OIL  
GAS & MINING

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

SEE ATTACHED SHEET:

MONTHLY HISTORY FOR August 2, 1984 - September 1, 1984

FINAL REPORTED

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

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

ORIGINAL SIGNED BY: \_\_\_\_\_ DATE 9-6-84  
SIGNED W.H. Ward TITLE District Manager  
(This space for Federal or State office use)

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

\* See Instructions on Reverse Side

CONFIDENTIAL UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Form approved. Budget Bureau No. 42-R-3

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO. U25112
6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
7. UNIT AGREEMENT NAME Birch Creek
8. FARM OR LEASE NAME Birch Creek
9. WELL NO. 14B
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 14, T9N, R6E
12. COUNTY OR PARISH Rich
13. STATE Utah

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [X] Other
b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other Plug

2. NAME OF OPERATOR Sohio Petroleum Company
3. ADDRESS OF OPERATOR P.O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 1149' FWL, 1208' FNL (NW/NW)
At top prod. interval reported below N/A
At total depth 1262' FWL, 1707' FNL

RECEIVED SEP 24 1984 DIVISION OF OIL GAS & MINING

14. PERMIT NO. 43-033-30042 DATE ISSUED 1/15/84

15. DATE SPUDDED 2/24/84 16. DATE T.D. REACHED 8/20/84 17. DATE COMPL. (Ready to prod.) P&A 8/26/84 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 6929' GR 19. ELEV. CASINGHEAD 6929'
20. TOTAL DEPTH, MD & TVD 16515' 21. PLUG, BACK T.D., MD & TVD - - 22. IF MULTIPLE COMPL., HOW MANY\* NA 23. INTERVALS DRILLED BY ROTARY TOOLS X 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 DLL/Sonic/GR/Caliper/MSFL/LDT/Dipmeter/CNL ACSL KMT 27. WAS WELL CORED No

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Rows include 30", 13-3/8", and 9-5/8" casing sizes.

Table with 4 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT\*, SCREEN (MD) and 2 columns: SIZE, DEPTH SET (MD), PACKER SET (MD). Rows include 'None' for all entries.

Table with 2 columns: DEPTH INTERVAL (MD) and AMOUNT AND KIND OF MATERIAL USED. Row includes 'None' for both.

33.\* PRODUCTION DATE FIRST PRODUCTION None PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in) P&A
DATE OF TEST HOURS TESTED CHOKER SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO
FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORE.)

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

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED W.H. Ward TITLE District Manager DATE 9/21/84

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

O + 1: Frank Snell, BLM
cc: Bill Martens, BLM, Ron Firth, DOGM, J.H. Walters, T. Rooney, File

CONFIDENTIAL

# 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:<br>SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING<br>DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES |             | 38. GEOLOGIC MARKERS |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
|---|-------------|----------------------|---|------|-------------|-----|------------------|------------|------|--|--|--------|-------|--|--|---------|-------|--|--|---------|-------|--|--|----------|-------|--|--|----------|-------|--|--|------------|-------|--|--|-------|--------|--|--|---------|--------|--|--|-------------|--------|--|--|-----------|--------|--|--|------------|--------|--|--|----------|--------|--|--|------------|--------|--|--|--------------|--------|--|--|-----------------|--------|--|--|------------|--|--|--|------------|------|--|--|
| FORMATION   | TOP         | BOTTOM               | DESCRIPTION, CONTENTS, ETC.   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| No Porous Zones<br>No Cores<br>No DST's   |             |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
|   |             |                      | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">NAME</th> <th style="width: 50%;">MEAS. DEPTH</th> <th style="width: 50%;">TOP</th> <th style="width: 50%;">TRUE VERT. DEPTH</th> </tr> </thead> <tbody> <tr> <td>Twin Creek</td> <td>775'</td> <td></td> <td></td> </tr> <tr> <td>Nugget</td> <td>3940'</td> <td></td> <td></td> </tr> <tr> <td>Ankareh</td> <td>5175'</td> <td></td> <td></td> </tr> <tr> <td>Thaynes</td> <td>6810'</td> <td></td> <td></td> </tr> <tr> <td>Woodside</td> <td>8757'</td> <td></td> <td></td> </tr> <tr> <td>Dinwoody</td> <td>9400'</td> <td></td> <td></td> </tr> <tr> <td>Phosphoria</td> <td>9742'</td> <td></td> <td></td> </tr> <tr> <td>Wells</td> <td>10349'</td> <td></td> <td></td> </tr> <tr> <td>Brazier</td> <td>10757'</td> <td></td> <td></td> </tr> <tr> <td>Three Forks</td> <td>13151'</td> <td></td> <td></td> </tr> <tr> <td>Jefferson</td> <td>13581'</td> <td></td> <td></td> </tr> <tr> <td>Fish Haven</td> <td>14213'</td> <td></td> <td></td> </tr> <tr> <td>Gallatin</td> <td>15100'</td> <td></td> <td></td> </tr> <tr> <td>Park Shale</td> <td>15464'</td> <td></td> <td></td> </tr> <tr> <td>Death Canyon</td> <td>15598'</td> <td></td> <td></td> </tr> <tr> <td>Crawford Thrust</td> <td>16245'</td> <td></td> <td></td> </tr> <tr> <td>Sub Thrust</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cretaceous</td> <td>T.D.</td> <td></td> <td></td> </tr> </tbody> </table> | NAME | MEAS. DEPTH | TOP | TRUE VERT. DEPTH | Twin Creek | 775' |  |  | Nugget | 3940' |  |  | Ankareh | 5175' |  |  | Thaynes | 6810' |  |  | Woodside | 8757' |  |  | Dinwoody | 9400' |  |  | Phosphoria | 9742' |  |  | Wells | 10349' |  |  | Brazier | 10757' |  |  | Three Forks | 13151' |  |  | Jefferson | 13581' |  |  | Fish Haven | 14213' |  |  | Gallatin | 15100' |  |  | Park Shale | 15464' |  |  | Death Canyon | 15598' |  |  | Crawford Thrust | 16245' |  |  | Sub Thrust |  |  |  | Cretaceous | T.D. |  |  |
| NAME  | MEAS. DEPTH | TOP                  | TRUE VERT. DEPTH  |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Twin Creek  | 775'        |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Nugget  | 3940'       |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Ankareh   | 5175'       |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Thaynes   | 6810'       |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Woodside  | 8757'       |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Dinwoody  | 9400'       |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Phosphoria  | 9742'       |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Wells   | 10349'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Brazier   | 10757'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Three Forks   | 13151'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Jefferson   | 13581'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Fish Haven  | 14213'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Gallatin  | 15100'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Park Shale  | 15464'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Death Canyon  | 15598'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Crawford Thrust   | 16245'      |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Sub Thrust  |             |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |
| Cretaceous  | T.D.        |                      |   |      |             |     |                  |            |      |  |  |        |       |  |  |         |       |  |  |         |       |  |  |          |       |  |  |          |       |  |  |            |       |  |  |       |        |  |  |         |        |  |  |             |        |  |  |           |        |  |  |            |        |  |  |          |        |  |  |            |        |  |  |              |        |  |  |                 |        |  |  |            |  |  |  |            |      |  |  |

CONFIDENTIAL

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
OIL AND GAS INSPECTION RECORD

OPERATOR SOHIO PETROLEUM CO. LEASE 0-25112  
WELL NO. BIRCH CREEK 14-B API 43-033-30042  
SEC. 14 T. 9N R. 6E CONTRACTOR \_\_\_\_\_  
COUNTY RICH FIELD WILDCAT

DRILLING/COMPLETION/WORKOVER:

APD  WELL SIGN  HOUSEKEEPING  BOPE  
 SAFETY  POLL. CONTROL  SURFACE USE  PITS  
 OPERATIONS  OTHER

SHUT-IN  / TA  :  
 WELL SIGN  HOUSEKEEPING  EQUIPMENT\*  SAFETY  
 OTHER

ABANDONED:  
 Y MARKER  Y HOUSEKEEPING  Y REHAB.  OTHER

PRODUCTION:  
 WELL SIGN  HOUSEKEEPING  EQUIPMENT\*  FACILITIES\*  
 METERING\*  POLL. CONTROL  PITS  DISPOSAL  
 SECURITY  SAFETY  OTHER

GAS DISPOSITION:  
 VENTED/FLARED  SOLD  LEASE USE

LEGEND: Y - YES OR SATISFACTORY  
N - NO OR UNSATISFACTORY  
NA - NOT APPLICABLE

\*FACILITIES INSPECTED: P&A marker set in place

Site fenced, recontoured and reseeded

Road had been ripped

REMARKS: Excellent reclamation work

ACTION: \_\_\_\_\_

INSPECTOR: Dorothy Swindel DATE 6/25/85

(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions  
reverse side)

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.)

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO

U-25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Birch Creek

8. FARM OR LEASE NAME

Birch Creek

9. WELL NO.

14B

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 14, T9N, R6E

12. COUNTY OR PARISH

Rich

13. STATE

Utah

1. OIL WELL  GAS WELL  OTHER Dry Hole

2. NAME OF OPERATOR  
Sohio Petroleum Company

JUL 05 1985

3. ADDRESS OF OPERATOR  
P.O. Box 30, Casper, WY 82602

DIVISION OF OIL  
& GAS MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
1149' FWL, 1208' FNL (NW/NW)

14. PERMIT NO.  
43-033-30042

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6929' GR

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANE

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

Completion of Rehabilitation  
(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.)

The abandoned location and 1/4 mile of access road have been recontoured and seeded. The location has been fenced. An inspection can be scheduled at your convenience.

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

SIGNED W.H. Ward W.H. Ward

TITLE District Manager

DATE 7/2/85

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:  
O+2: Frank Snell, BLM, SLC  
cc: DOGM, T. Rooney, File

\*See Instructions on Reverse Side

TR/jc

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate\*  
(Other instruction  
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.  
U 25112

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME  
Birch Creek

8. FARM OR LEASE NAME  
Birch Creek

9. WELL NO.  
148

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR B.L.K. AND  
SURVEY OR AREA  
Sec 14-T9N-R6E

12. COUNTY OR PARISH  
Rich

18. STATE  
UT

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  Dry Hole

2. NAME OF OPERATOR  
BP EXPLORATION INC (Sohio Petroleum Company)

3. ADDRESS OF OPERATOR  
Box 460609, Houston, Texas 77056-8609

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
Surface: 1149' FWL, 1208' FNL (NW/NW)

14. PERMIT NO.  
43-49-033-30042

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
929' GR

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PLUG OR ALTER CASING

RECOMPLETION

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FILE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) Completion of Rehabilitation

(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.)\*

Location is ready for BLM inspection in Fall '89 to determine if vegetation has taken.

Sohio Petroleum Company had changed its name to BP Exploration Inc. Please note new address

BP requests that BLM release any and all bonds related to this location.

This is a follow-up to Sohio's 7/2/85 Sundry on "Completion of Rehabilitation".

- cc: D. Washington (0+2), BLM, 2370 South 2300 West, Salt Lake City, UT 84119  
A. Sollis, UT DOGM 4241 State Office Bldg., Salt Lake City, UT 84114  
R. Evangelisti/Reg File  
D. R. Morales/Well File  
B. E. Reed/Central File

RECEIVED  
JUN 09 1989

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Robert Evangelisti

Robert Evangelisti, P.E.

TITLE 713-552-6317

DATE 6/7/89

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

0480e18

MCW

\*See Instructions on Reverse Side