

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

ML28604

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

b. Type of Well

Oil Well

Gas Well

Other Wildcat

Single Zone

Multiple Zone

8. Farm or Lease Name

State of Utah "C"

2. Name of Operator

AMOCO PRODUCTION COMPANY

9. Well No.

1

3. Address of Operator

501 AIRPORT DRIVE, FARMINGTON, NEW MEXICO 87401

10. Field and Pool, or Wildcat

Wildcat

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

At surface

Approximate center of SW/4 NE/4 Section 23

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

SW NE Sec. 23

At proposed prod. zone

T-7-N, R-7-W

12. County or Parish 13. State

Box Elder, Utah

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

Salt Lake City

15. Distance from proposed\* location to nearest property or lease line, ft.

3300

16. No. of acres in lease

2560

17. No. of acres assigned to this well

Wildcat

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

None

19. Proposed depth

10,000

20. Rotary or cable tools

Rotary

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

Lake Elevation 4199

22. Approx. date work will start\*

May, 1978

23. PROPOSED CASING AND CEMENTING PROGRAM

| Size of Hole | Size of Casing | Weight per Foot | Setting Depth | Quantity of Cement  |
|--------------|----------------|-----------------|---------------|---|
|              | 30"            | 171#            | 100'          | Drive Pipe <input checked="" type="checkbox"/> ok               |
| 26"          | 20"            | 94#             | 500'          | Circ to Surface <input checked="" type="checkbox"/> ok          |
| 17-1/2"      | 13-3/8"        | 48#             | 3000'         | Circ to Surface <input checked="" type="checkbox"/> ok          |
| 8-3/4"       | 7"             | 26#             | 10,000'       | To be determined upon logging, cement to cover pay and aquifers |

Well to be drilled in the Great Salt Lake at a location where the water depth is approximately 21 feet. The drilling contractor will be designated in advance of drilling operations, but is unknown at present. Current plans are to employ one rotary rig to complete the exploration program on the lake. This well is six miles from shore and is over 1 mile from any evaporation pits, structures, buildings, platforms, producing wells, State of Federal waterfowl areas. The well will be drilled in compliance with the State of Utah operating rules and regulations governing drilling procedures in the Great Salt Lake adopted July 18, 1973. An oil spill contingency plan will be submitted for approval prior to drilling.

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.

*[Signature]* 505-326-8841

Signed: *[Signature]* Title: Area Superintendent

Date: 12/2/77

(This space for Federal or State office use)

Permit No. \_\_\_\_\_ Approval Date \_\_\_\_\_

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

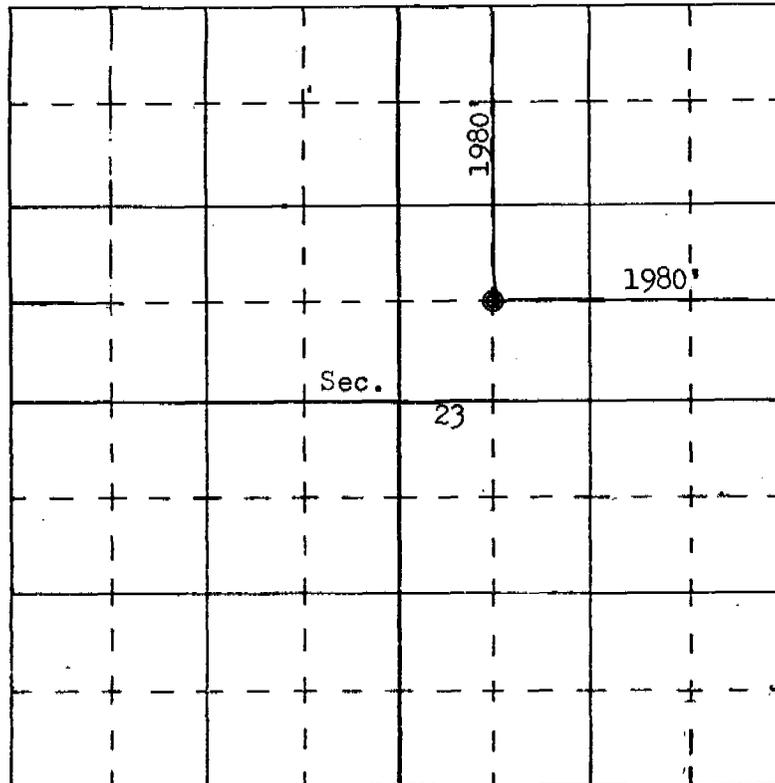
COMPANY Amoco Production Company

LEASE State of Utah "C" WELL NO. 1

SEC. 23, T. 7N, R. 7W U.S.M.  
Box Elder County, Utah

LOCATION 1980'FNL 1980'FEL

ELEVATION \_\_\_\_\_



SCALE—4 INCHES EQUALS 1 MILE

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

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

SEAL: \_\_\_\_\_ Registered Land Surveyor.

#3950

SURVEYED \_\_\_\_\_ November 16 1977

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: Dec. 6, 1977

Operator: Amoco O.I. Prod Co

Well No: State "E" #1

Location: Sec. 23 T. 7 N R. 7 E County: Box Elder

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API NUMBER: 43-003-30002

CHECKED BY:

Administrative Assistant [Signature]

Remarks:

Petroleum Engineer [Signature]

Remarks:

Director \_\_\_\_\_

Remarks:

*Include "Such well shall be drilled in accordance with State Rule 150-2 and R+R promulgated under*

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 150-2

Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site

O.K. Rule C-3

O.K. In \_\_\_\_\_ Unit

Other:

[Signature] Letter Written/Approved

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

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

5. LEASE DESIGNATION AND SERIAL NO.

ML 28604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

State of Utah "I"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SW/4 SW/4 Sec. 23  
T-7-N, R-7-W

12. COUNTY OR PARISH

Box Elder

13. STATE

Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR  
501 Airport Drive, Farmington, NM 87401

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

522' FSL & 2140' FEL, Section 23, T-7-N, R-7-W

14. PERMIT NO.

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

Lake Elevation 4199'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) CHANGE LOCATION

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

This is notification of a location change from 660' FSL & 2140' FEL, Section 23, T-7-N, R-7-W, to 522' FSL & 2140' FEL, Section 23, T-7-N, R-7-W.

Attached is a revised Survey Plat.

This location was approved verbally by Cleon Feight on April 27, 1978, per telcon Krupka to Feight.



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

SIGNED

TITLE Area Engineer

DATE 4/27/78

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

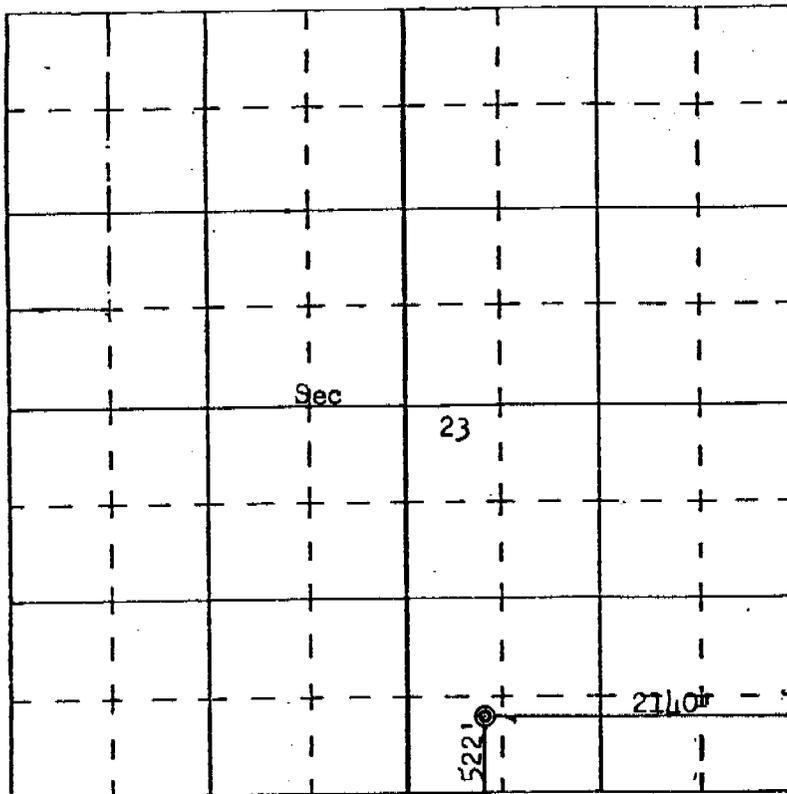
COMPANY AMOCO PRODUCTION COMPANY

LEASE State of Utah "I" WELL NO. 1

SEC. 23 T. 7N R. 7W USM  
Box Elder County, Utah

LOCATION 522'FSL 2140'FEL

ELEVATION 4199 (Lake Surface)



SCALE—4 INCHES EQUALS 1 MILE

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

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

SEAL: Registered Land Surveyor.  
#3950

SURVEYED April 27 1978

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

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

5. LEASE DESIGNATION AND SERIAL NO.

ML 28604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

State of Utah "I"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SW/4 SE/4 Sec. 23

T-7-N, R-7-W

12. COUNTY OR PARISH 13. STATE

Box Elder

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR  
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR  
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
660' FSL & 2140' FEL, Section 23, T-7-N, R-7-W

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
Lake Elevation 4199'

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF  REPAIRING WELL   
FRACTURE TREATMENT  ALTERING CASING   
SHOOTING OR ACIDIZING  ABANDONMENT\*   
(Other) CHANGE LOCATION

(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.)\*

This is notification of a location change from approx. center of SW/4 NE/4 Section 23, T-7-N, R-7-W, to 660' FSL and 2140' FEL, Section 23, T-7-N, R-7-W.

Attached is a revised Survey Plat.

SW SE



APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
DATE: April 18, 1978  
BY: J. L. Ansell

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

SIGNED [Signature] TITLE Area Engineer DATE 4/12/78

(This space for Federal or State office use)

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

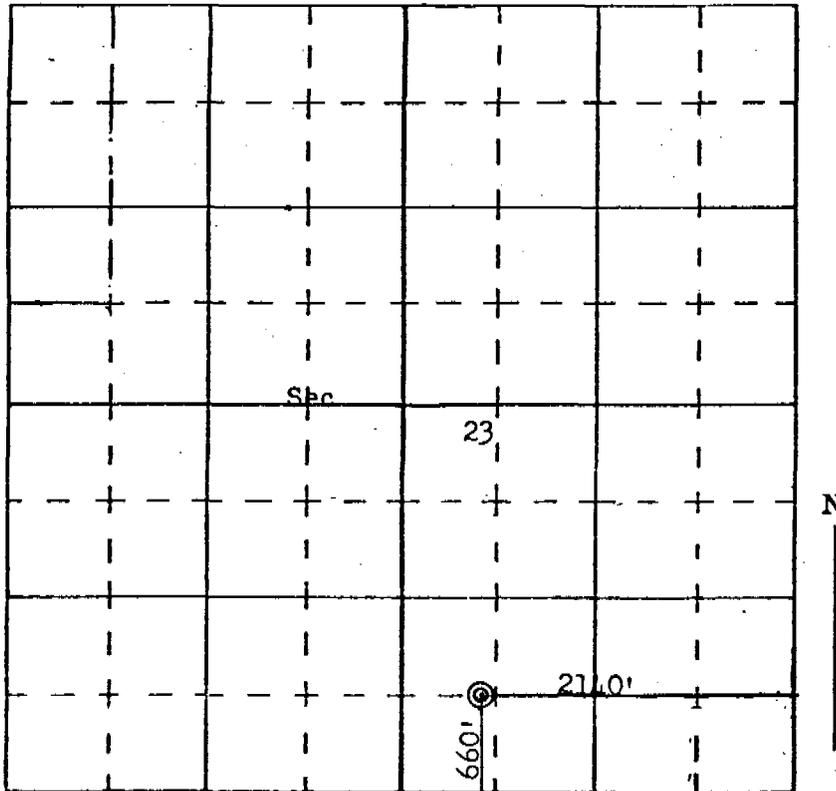
COMPANY Amoco Production Company

LEASE State of Utah "I" WELL NO. 1

SEC. 23, T. 7N, R. 7W USM  
Box Elder County, Utah

LOCATION 660' FSL 2140' FEL

ELEVATION 4199 (Lake Surface)



SCALE—4 INCHES EQUALS 1 MILE

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

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

SEAL:

#3950

Registered Land Surveyor.

SURVEYED April 13, 19 78

FARMINGTON, N. M.



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

I. DANIEL STEWART  
Chairman

DIVISION OF OIL, GAS, AND MINING

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

CLEON B. FEIGHT  
Director

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

December 9, 1977

AMOCO PRODUCTION COMPANY  
501 Airport Drive  
Farmington, New Mexico 87401

RE: State of Utah "D" #1, Sec. 23, T. 8 N, R. 8 W, Box Elder County  
State of Utah "E" #1, Sec. 19, T. 3 N, R. 4 W, Dayis County  
State of Utah "F" #1, Sec. 15, T. 3 N, R. 5 W, Tooele County  
State of Utah "G" #1, Sec. 29, T. 3 N, R. 5 W, Tooele County  
State of Utah "H" #1, Sec. 11, T. 3 N, R. 6 W, Tooele County  
State of Utah "I" #1, Sec. 23, T. 7 N, R. 7 W, Box Elder County

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the Order issued in Cause No. 150-2, dated November 20, 1974; and, the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake", adopted July 18, 1973, by the Board of Oil, Gas, and Mining.

However, said approval shall be contingent upon the following:

- 1) The blowout prevention equipment being tested by an independent source after initial installation on all of the above wells;
- 2) Notification as to the name of the drilling contractor and the number and type of rig to be used prior to commencement of spudding operations;
- 3) The filing of an "Oil Spill Emergency Contingency Plan"
- 4) A drilling and plugging bond being filed with the Division of State Lands prior to commencement of operations.

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

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

OR

BRIAN W. BUCK - Engineering Geologist  
HOME: 359-0214  
OFFICE: 533-5771

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

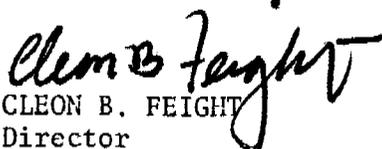
Finally, it is requested that this Division be notified at least 48 hours prior to spudding.

The API numbers assigned to these wells are:

|                      |                      |
|----------------------|----------------------|
| "D" #1: 43-003-30003 | "E" #1: 43-011-30002 |
| "F" #1: 43-045-30004 | "G" #1: 43-045-30005 |
| "H" #1: 43-045-30006 | "I" #1: 43-003-30002 |

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

  
CLEON B. FEIGHT  
Director

/sw  
cc: Division of State Lands

OIL & GAS CONSERVATION COMMISSION

**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.)

5. LEASE DESIGNATION AND SERIAL NO.

ML 28604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

State of Utah "I"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SW NE Sec. 23

T-7-N, R-7-W

12. COUNTY OR PARISH 13. STATE

Box Elder

Utah

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

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

Approximate center of SW/4 NE/4 Section 23  
T-7-N, R-7-W

14. PERMIT NO.

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

Lake Elevation 4199'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) CHANGE NAME

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

This is notification of a name change from State of Utah "C" No. 1 to State of Utah "I" No. 1. Attached is a revised acreage Dedication Plat.



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

SIGNED

*[Signature]*

TITLE

Area Engineer

DATE

12/8/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

COMPANY Amoco Production Company

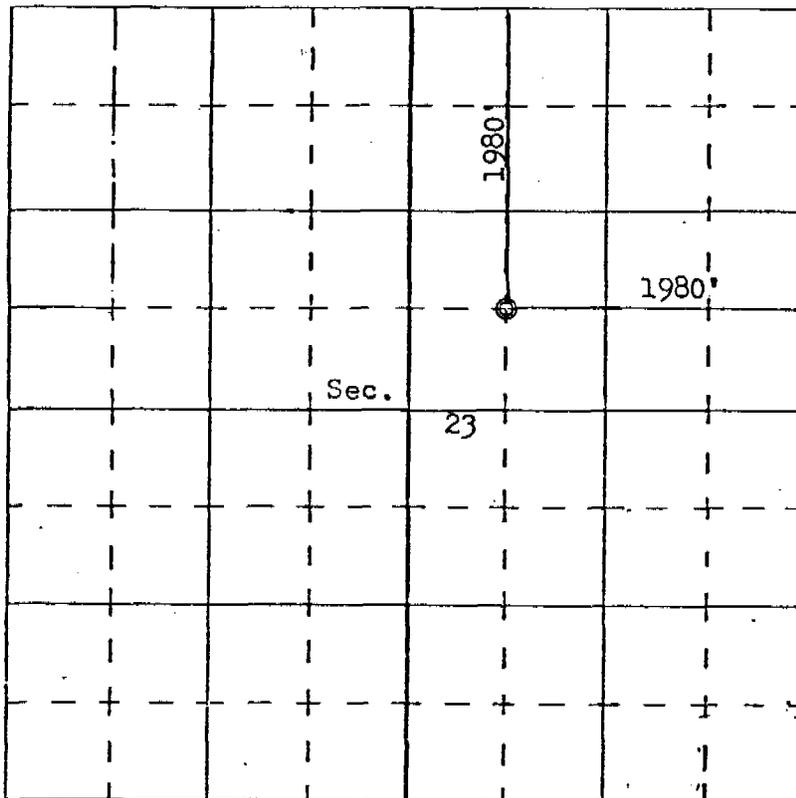
LEASE State of Utah "I" WELL NO. 1

(formerly State of Utah "C" No. 1)

SEC. 23 T. 7N R. 7W U.S.M.  
Box Elder County, Utah

LOCATION 1980'FNL 1980'FEL

ELEVATION \_\_\_\_\_



SCALE—4 INCHES EQUALS 1 MILE

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

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED \_\_\_\_\_ November 16, 1977



**Amoco Production Company**

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401

L. O. Speer, Jr.  
Area Superintendent

May 8, 1978

Mr. Leon B. Feight, Director  
Division of Oil, Gas and Mining  
State of Utah Department of Natural Resources  
1588 West North Temple  
Salt Lake City, UT 84116

File: LOS-310-400.1

Dear Sir:

Approval to Drill State of Utah "I" Well No. 1

In accordance with your letter of December 9, 1977, which granted approval to drill six State of Utah wells contingent upon our furnishing certain additional data as set out in your letter, we furnish the following:

The drilling contractor for the State of Utah "I" Well No. 1 is Parker Drilling Company. The rig number is 148 and is a Land Rotary drilling rig. It is described in more detail on the attachment. At the present time we anticipate that this same rig will be used to drill the other five wells also.

Amoco Production Company has a Statewide Bond filed with the State of Utah; the bond number is 831094.

A report of the blowout prevention equipment by an independent source will be furnished after it is installed and tested.

Yours very truly,

EES/eb  
Attachment



PARKER DRILLING COMPANY

RIG 148

MAY 5 1978

CONTRACT NO.

AREA

AS

AAS

AL

*mg 7*

Complete Land Rotary Drilling Rig

- A. Mast - 136' Lee C. Moore 830,000# GNC rated to 556,000# w/8 lines.
- B. Substructure - 18' Substructure w/15' Clear height under rotary beams, compatible w/above mast.
- C. Crown block and Traveling block 250 Ton capacity.
- D. Rotary Table - Brewster 22" with split master bushing.
- E. Power - 3 D 353 Turbocharged Caterpillar Engines with radiators rated at 390HP each at 1200 RPM continuous operation.
- F. Compound - 3 motor with angle gearbox mounted on top of first section for rotary and cathead drive.
- G. Drawworks - 750 Heli-hoist with 1 1/4" groove drum and 341A Parkersburg hydramatic brake and controls.

Mud System

- A. Pump #1 - National G-700 w/H-850 Fluid End.  
Pump #2 - National C-350.
- B. Mud Pits - 400 bbl. & 350 bbl. with electric mixers.
- C. Link Belt shale shakers.
- D. 500 barrel freshwater storage tank.
- E. Four 5 x 6 Mission Centrifugal pumps with 60 HP electric motors.
- F. Desilter - 8 - 4" Cones Demco.
- G. Desander - 1 - 8" Cone Dorr Oliver.

Rig Instrumentation

- A. Bear Automatic Driller.
- B. Totco 4 Pen Drilling Recorder.

Winterization

- A. 50 HP boiler.
- B. Canvas winterizing.
- C. Tioga 4200 BTU Forced air heater diesel fired.

BOP and Choke Manifold

- A. 1 - 10", 5000 psi Hydril
- B. 1 - 13 5/8", 5000 psi CIW Type U - Double

Other Equipment

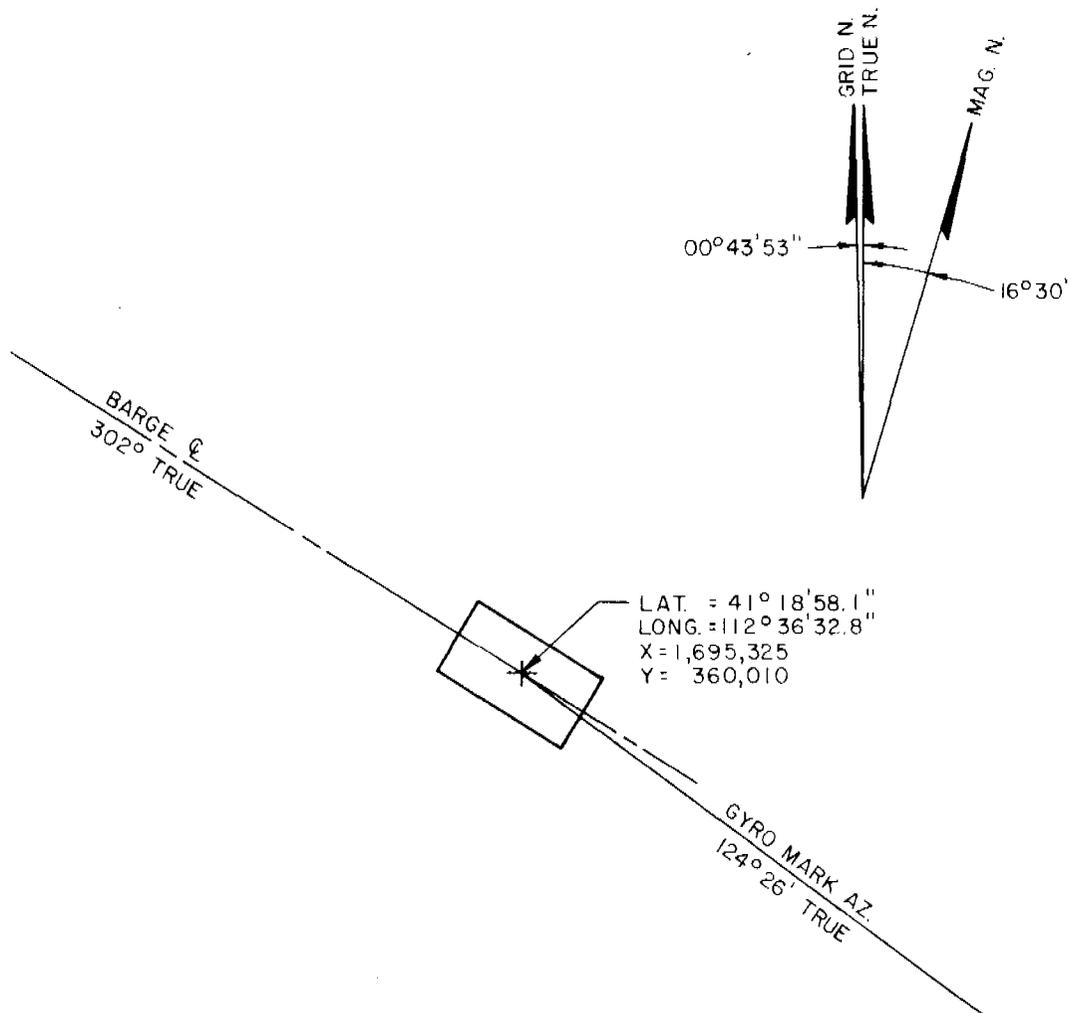
- A. Varco Spinning wrench.
- B. 2 Bedroom toolpusher's trailer.
- C. Mathey wireline unit with 15,000' of .092 wireline.
- D. Unitized matting for substructure and pump skids.
- E. 500 bbl. fuel storage tank.
- F. 7000# lift capacity air hoist.

Light Plants

- A. 2 - 250 KW Generator sets with Caterpillar D353 Engines.

Drill String

- A. 11,000' 4½", 16.60 Grade E Drill pipe.
- B. 21 - 6½" to 6 3/4" drill collars.



LAT. = 41° 18' 58.1"  
 LONG. = 112° 36' 32.8"  
 X = 1,695,325  
 Y = 360,010

NOTES:

1. Coordinates are Utah State Plane, North Zone.
2. The gyro mark is the western most light on the north face of the light house tower at the Little Valley Harbor.
3. Coordinates are for derrick vertical Q.

Date of Survey - June 23, 1978 - 09:30 - No Scale

|   |
|---|
| <b>INDIAN COVE STATE UNIT No 1.</b>           |
| DRILL BARGE LOCATION                          |
| For   |
| <b>AMOCO PRODUCTION CO.</b>                   |
| Farmington, New Mexico                        |
| Surveyed by                                   |
| <b>F. M. LINDSEY &amp; ASSOC.</b>             |
| LAND & HYDROGRAPHIC SURVEYORS                 |
| 2502 West Northern Lights Boulevard Box 4-081 |
| Anchorage Alaska                              |

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Box Elder Field or Lease Indian Cove State Unit

The following is a correct report of operations and production (including drilling and producing wells) for

June, \_\_\_\_\_, 19 78

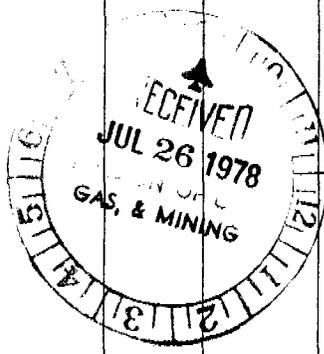
Agent's address 501 Airport Drive Company Amoco Production Company

Signed *E. L. Svoboda*

Phone 505-325-8841 Agent's title Area Administrative Supervisor

State Lease No. ML28604 Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

| Sec. & 1/4 of 1/4    | Twp.          | Range | Well No.                            | *Status     | Oil Bbls. | Water Bbls. | Gas MCF's | REMARKS<br>(If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)  |                      |               |
|----------------------|---------------|-------|-------------------------------------|-------------|-----------|-------------|-----------|---|----------------------|---------------|
| SW/4 SE/4 23         | 7N            | 7W    | <u>State of Utah</u><br><u>I-#1</u> | <u>Utah</u> |           |             |           | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">No. of Days Produced</td> <td style="width: 80%;">Drilling 575'</td> </tr> </table> | No. of Days Produced | Drilling 575' |
| No. of Days Produced | Drilling 575' |       |                                     |             |           |             |           |   |                      |               |



P

Note: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold; \_\_\_\_\_ runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

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

5. LEASE DESIGNATION AND SERIAL NO.

ML 28604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Indian Cove State Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SW/4 NE/4 Section 23,  
T-7-N, R-7-W

12. COUNTY OR PARISH

Box Elder

13. STATE

UT

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR  
501 Airport Drive Farmington, NM 87401

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

Approximate center of SW/4 NE/4 Section 23, T-7-N, R-7-W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

Lake elevation 4199'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Run Conductor & Surface Pipe

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

Drilling operations commenced on 6/24/78. Drove 30" conductor pipe for 151' of penetration. Final driving at 8 blows per foot. Drilled 17-1/2" hole to 575'. Reamed hole to 26". Ran 20", K-55, 133# casing. Set at 582' KB. Cemented with 850 sx Howco Lite 2% CaCl<sub>2</sub> and 10# gelsonite per sx followed with 100 sx Class "G" 2% CaCl<sub>2</sub>. No returns on final 100 sx. Pressure tested casing to 400 psi for 30 minutes. Prepared to drill ahead.

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

SIGNED

*E. E. Svoboda*

TITLE

Area Adm. Supervisor

DATE

7/7/78

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



**Amoco Production Company**

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401

L. O. Speer, Jr.  
Area Superintendent

*P.*

July 25, 1978

*See 23  
R 7W  
T 9N*

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

File: JLK-102-400.1

Gentlemen:

Location Plat - Indian Cove State Unit Well No. 1

Enclosed are two copies of a plat showing location and azimuth for Indian Cove State Unit Well No. 1 in the Great Salt Lake.

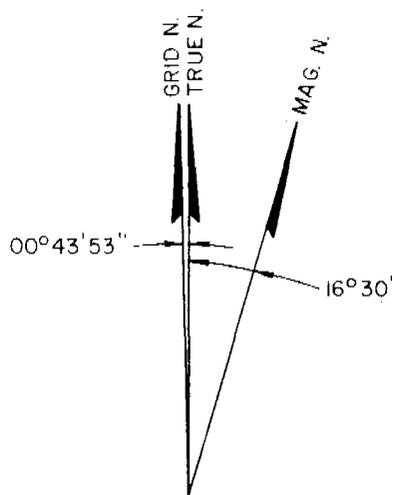
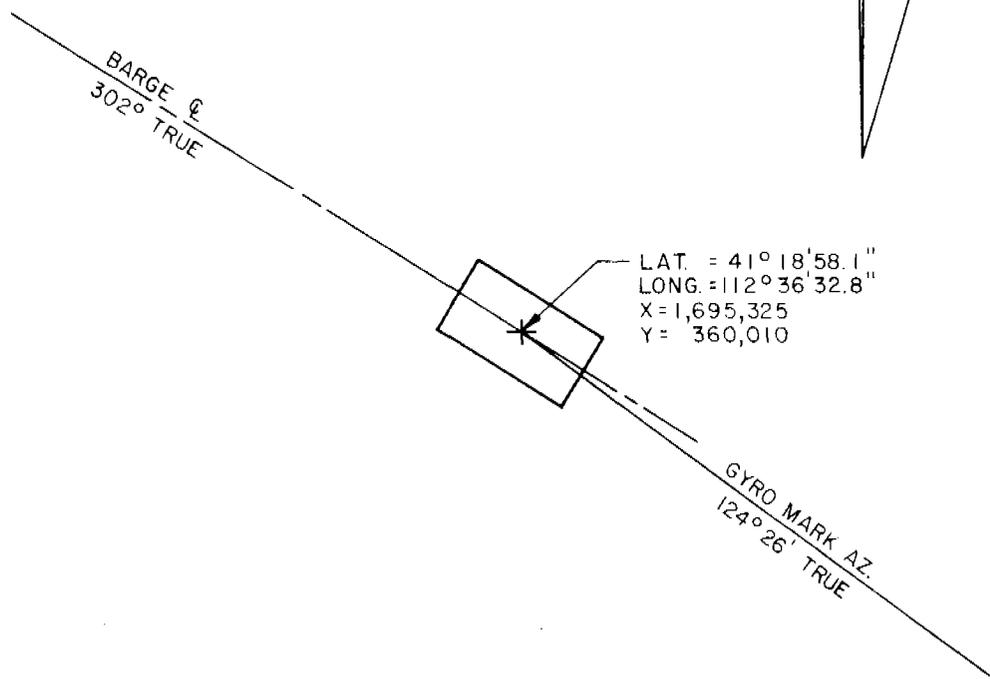
Please add these plats to your file.

Yours very truly,

*L. O. Speer Jr.*

JLK/eb  
Attachments





LAT. = 41° 18' 58.1"  
 LONG. = 112° 36' 32.8"  
 X = 1,695,325  
 Y = 360,010

GYRO MARK AZ.  
 124° 26' TRUE

**NOTES:**

1. Coordinates are Utah State Plane, North Zone.
2. The gyro mark is the western most light on the north face of the light house tower at the Little Valley Harbor.
3. Coordinates are for derrick vertical Q.

Date of Survey - June 23, 1978 - 09:30 - No Scale

|   |
|---|
| <b>INDIAN COVE STATE UNIT No 1.</b>           |
| DRILL BARGE LOCATION                          |
| For   |
| <b>AMOCO PRODUCTION CO.</b>                   |
| Farmington, New Mexico                        |
| Surveyed by                                   |
| <b>F. M. LINDSEY &amp; ASSOC.</b>             |
| LAND & HYDROGRAPHIC SURVEYORS                 |
| 2502 West Northern Lights Boulevard Box 4-081 |
| Anchorage Alaska                              |



HYDROSTATIC PRESSURE TEST - B.O.P.'s

Amoco Production Co. - Indian Cove State #1

Parker - Rig No. 148

July 16, 1978

by

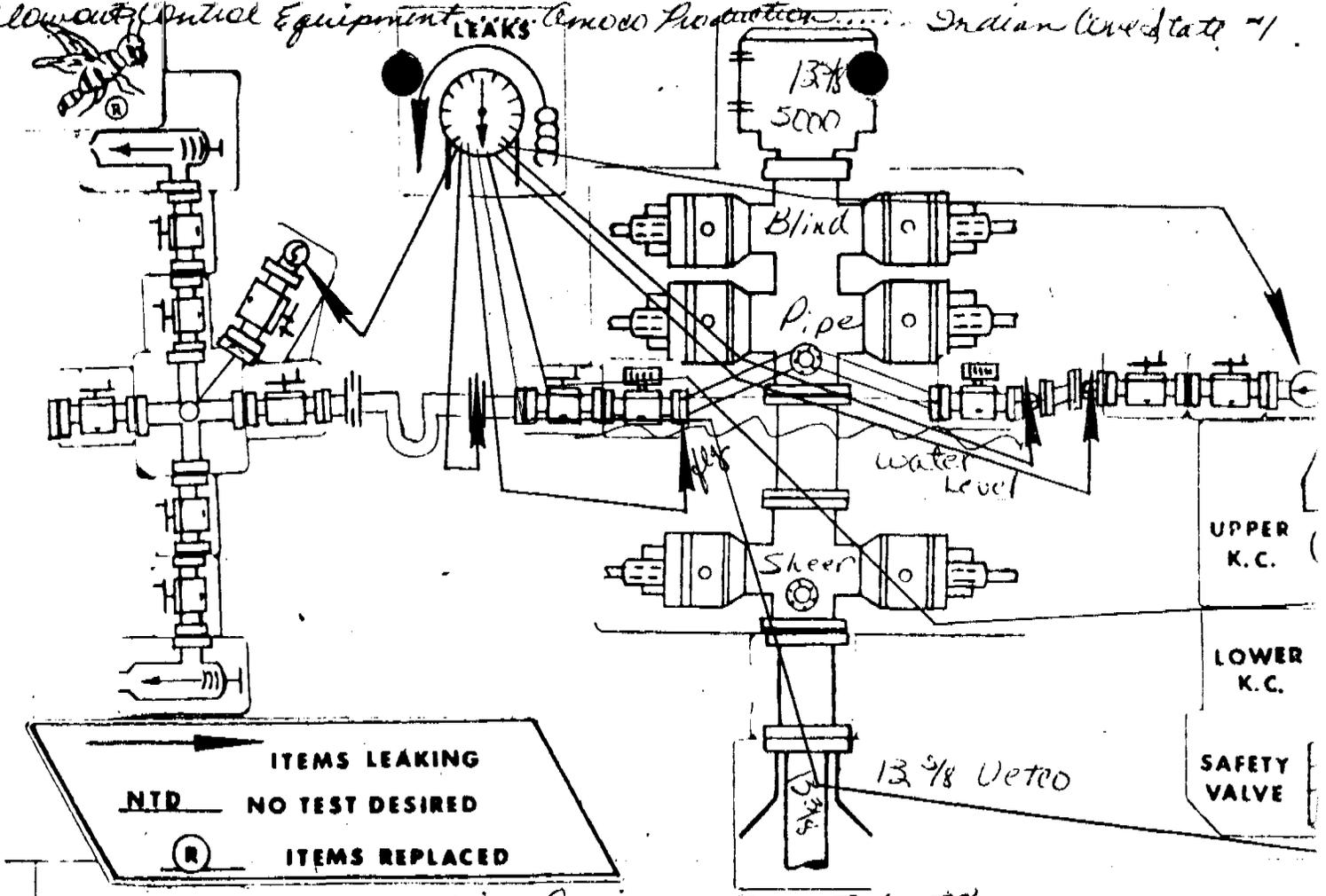
Yellow Jacket Tools and Services, Inc.

Vernal, Utah

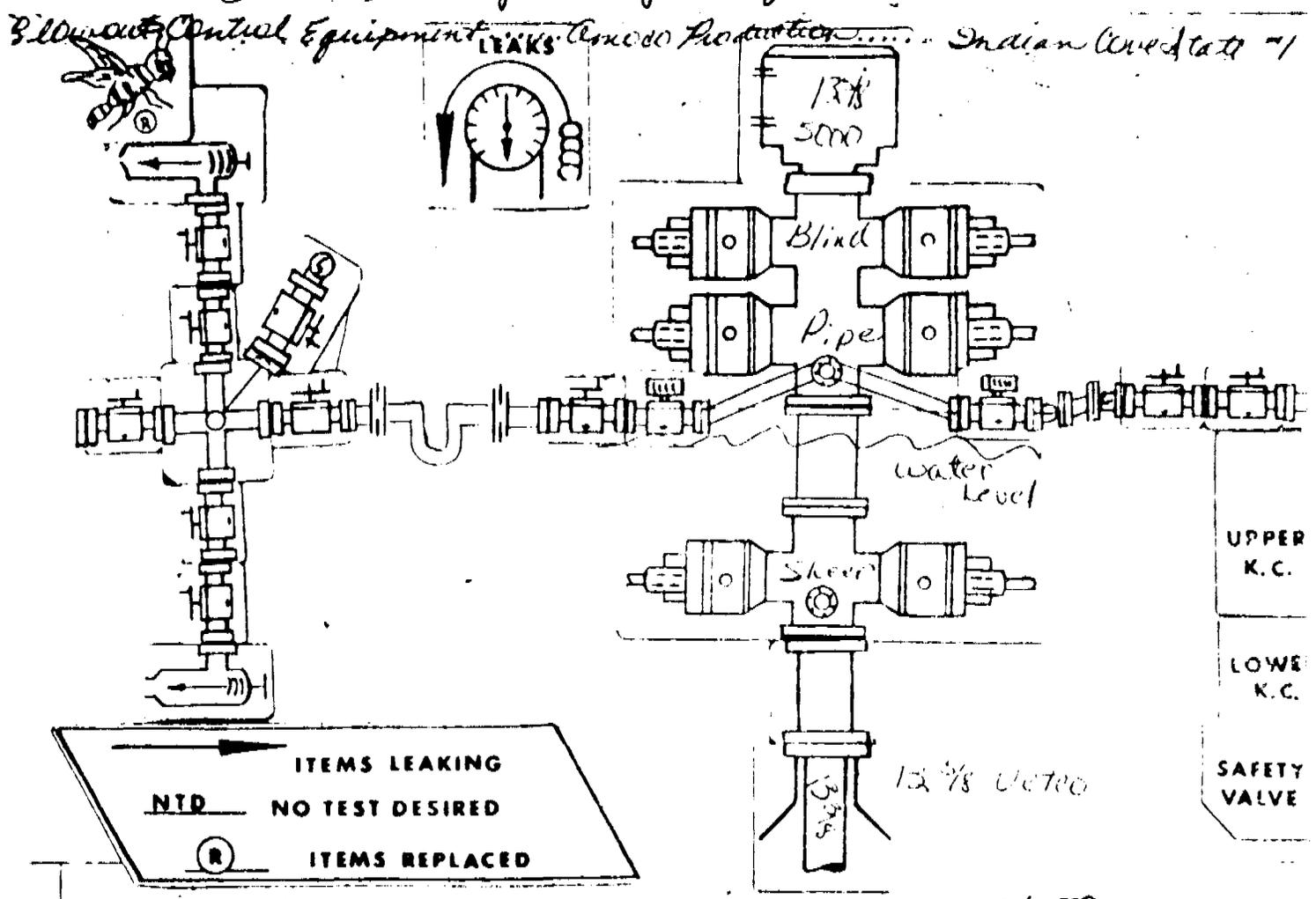
Tested by: Ed Schwarz

Ticket No. 5444

Blowout Control Equipment LEAKS Amoco Production Indian Overstate #1



Stems leaking During testing 7-16-78



No visible leaks at Conclusion of testing 7-16-78

July 25, 1978

Amoco Production Company  
501 Airport Drive  
Farmington, NM 87401  
ATTN: L.O. Speer

RE: Hydrostatic pressure test on your Indian Cove State #1, located in the Great Salt Lake, Utah area in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on July 16, 1978.

At the conclusion of testing there were no visible leaks to the items tested.

A schematic of surface control equipment has been prepared with leaks and or malfunctions posted thereto for your consideration. Also, enclosed is a copy of the report taken from field notes during testing and pressure readings of the test.

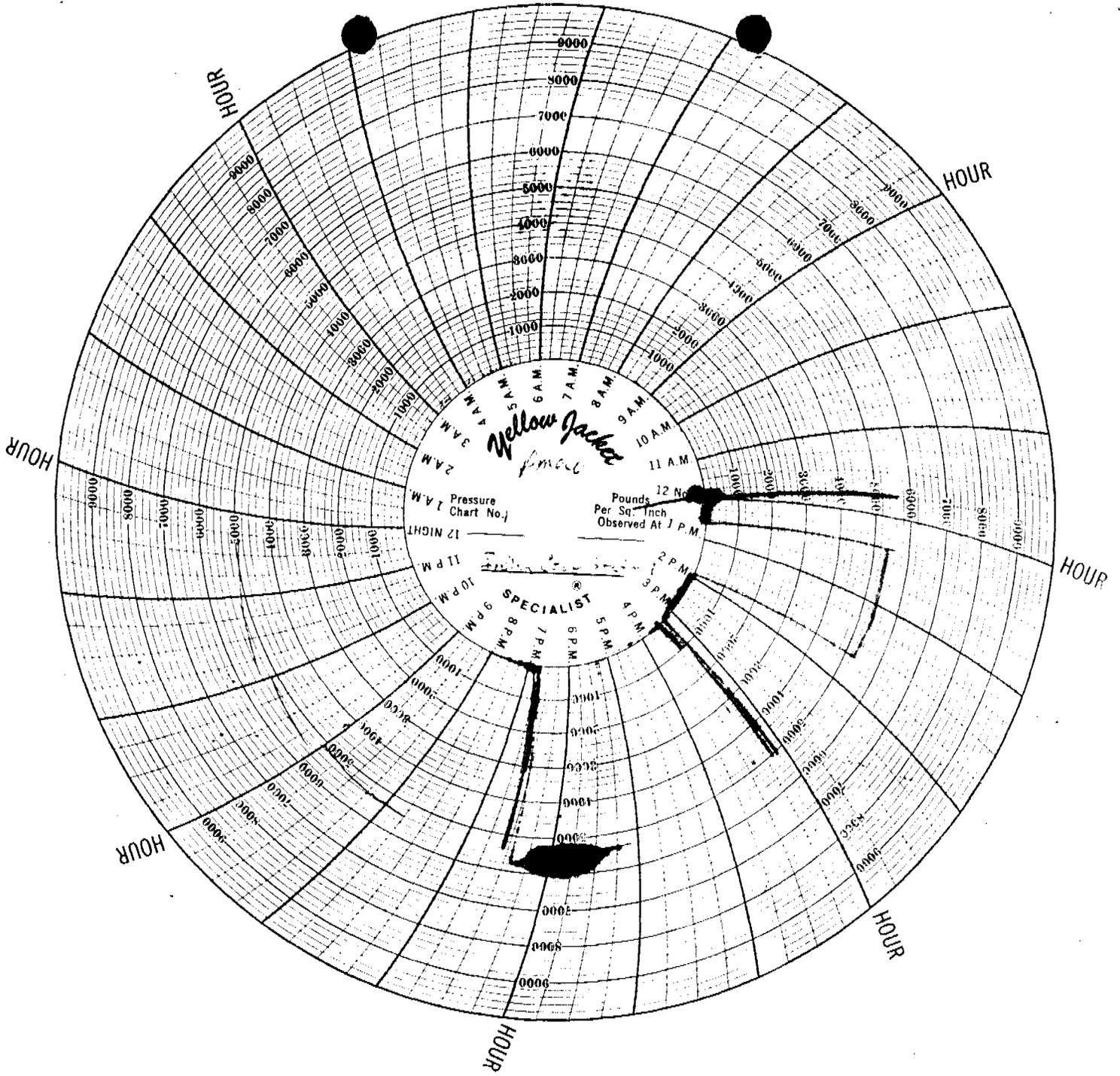
Your comments or suggestions as to how we may better serve you will certainly be appreciated.

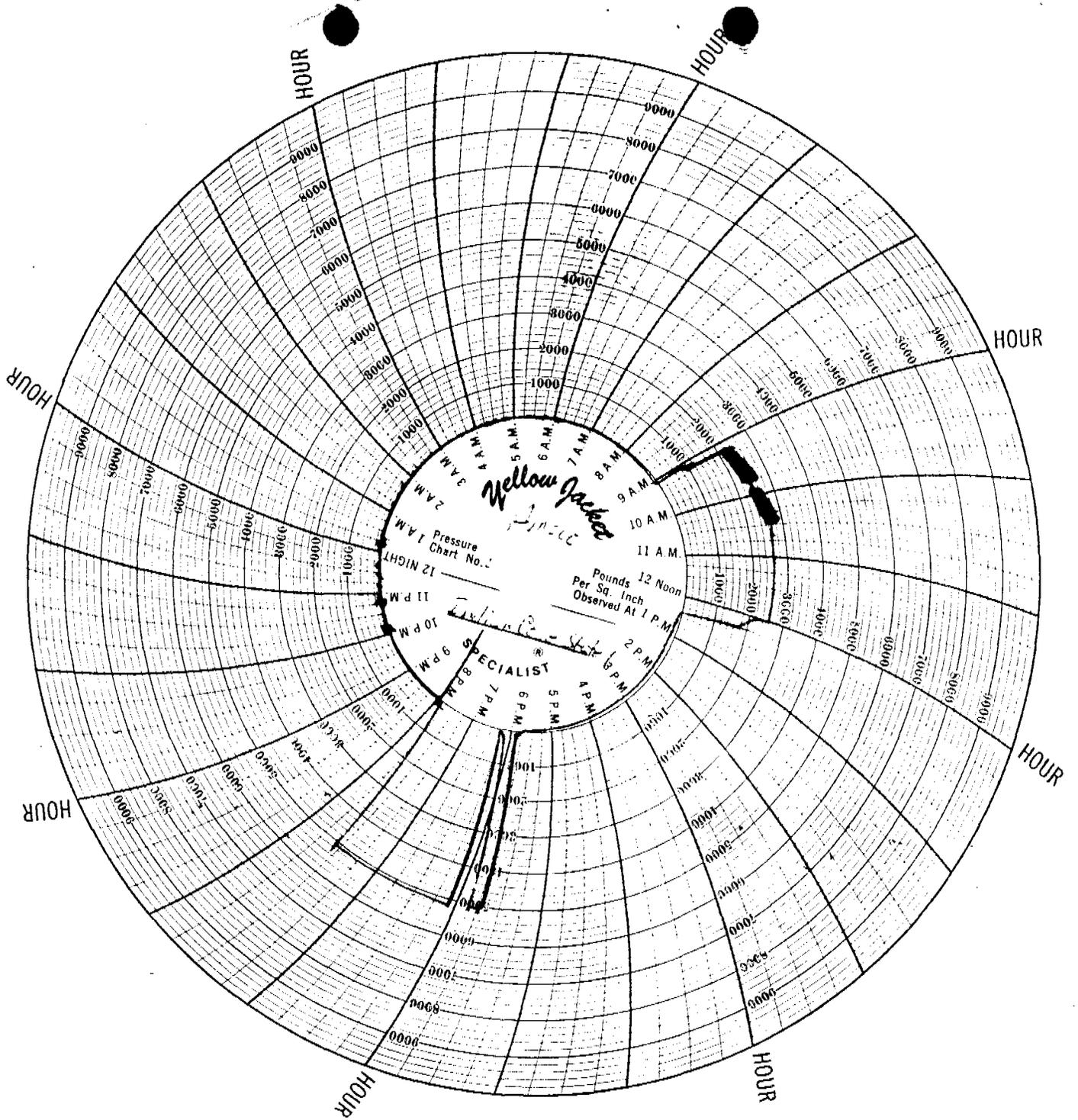
Sincerely yours,

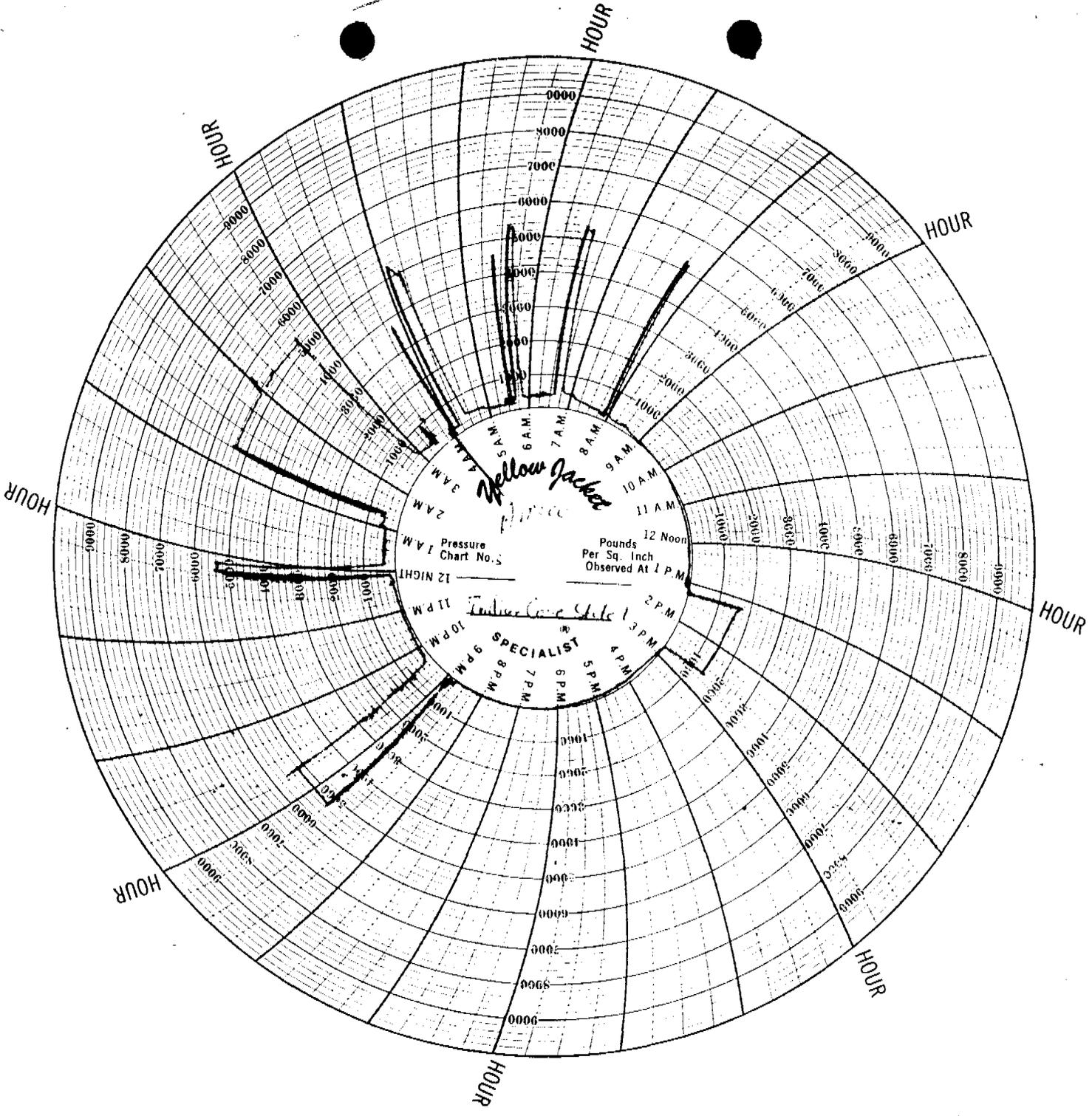
Yellow Jacket Tools and Services, Inc.

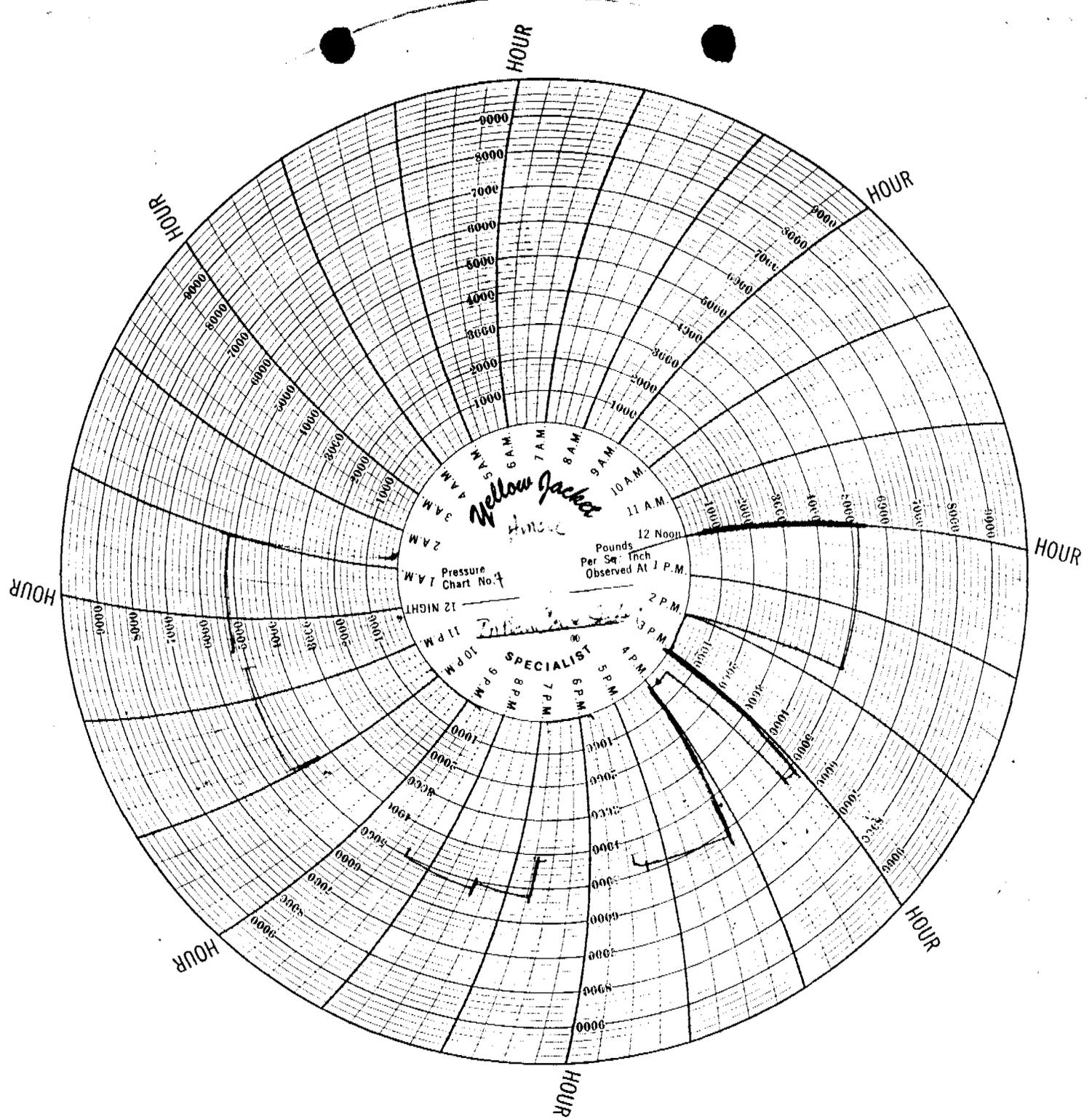
Jay E. Stubbs  
Jay E. Stubbs

cll/Enclosures









COMPANY

Well

Date



| Test # | Items Tested   | Pressure Pt.         | Pressure | Minutes Held | Results  |
|--------|--|----------------------|----------|--------------|--|
| 1      | Dart type safety valve<br>"  |                      | 5,000#   |              | Leak thru conn. on valve. (Will tighten & retest)                          |
| 2      | Hydril type safety valve<br>"  |                      | 5,000#   | 25 min.      | No visible leaks   |
| 3      | Kelly & upper kelly cock<br>"  | "                    | 5,000#   |              | Loss, repressure. Leak thru kelly cock. (operate kelly cock)               |
| 4      | "<br>Lower kelly cock  | "                    |          |              | Tried to pressure up. Leak thru kelly cock.                                |
| 5      | "<br>Dart type safety valve  | "                    | 5,000#   | 25 min.      | (barge moving with waves causes needle to act up)                          |
| 6      | "<br>Pipe rams & 3527' 13 3/8 casing w/inside valves on kill & choke lines closed. | "                    | 5,000#   | 30 min.      | Loss, repressure., twice. No visible leak                                  |
| 7      | "<br>Pipe rams w/inside valves on kill & choke line closed.                        | "<br>Down drill pipe | 2,700#   | 30 min.      | No visible leak  |
| 8      | "  | "                    | 5,000#   |              | Leak in hydraulic line on pipe ram. Tighten.                               |
| 9      | "<br>Opened inside valves to 2nd valves on kill & choke lines                      | "                    | 5,000#   | 30 min.      | No visible leaks   |
| 10     | "  | "                    | 3,500#   |              | Leak thru swedge on kill line next to inside valve on kill line. Tightened |
| 11     | "  | "                    | 5,000#   |              | Same leak (tightened)  |
| 12     | "  | "                    | 4,500#   |              | Leak thru union on choke line & swedge on kill line @ 2nd valve.           |
| 13     | "  | "                    | 5,000#   |              | Same leaks (tightened)   |
| 14     | "  | "                    | 5,000#   |              | Same leaks (tightened)   |
| 15     | "  | "                    | 5,000#   |              | Same leak (tightened) (Will replace valve & union on choke line)           |

COMPANY

Well

Date



| Test # | Items Tested   | Pressure Pt.          | Pressure | Minutes Held | Results   |
|--------|--|-----------------------|----------|--------------|---|
|        | Hydril w/inside valves on kill line & choke line closed.   |                       |          |              |   |
| 16     | "  |                       | 1,500#   | 25 min.      | No visible leaks  |
|        | Pipe rams w/2nd valves on kill & choke lines closed  | Down drill pipe       |          |              |   |
| 17     | "  | "                     | 5,000#   |              | Leak thru swedge in front of 2nd valve on kill line. (tightened)      |
| 18     | "  | "                     | 5,000#   |              | Leak thru inside flange of inside valve on choke line. (tightened)    |
| 19     | "  | "                     | 5,000#   | 12 min.      | No visible leak   |
|        | Pipe rams w/3rd valve on kill line & valve on choke line @ manifold closed.  |                       |          |              |   |
| 20     | "  | "                     | 5,000#   | 10 min.      | No visible leak   |
|        | Blind rams, choke line & manifold w/inside wing valves outlet valve on manifold & check valve on kill line closed. | 2" conn. on manifold. |          |              |   |
| 21     | "  | "                     | 5,000#   |              | Leak thru gage conn. on manifold. (tighten)                           |
| 22     | "  | "                     | 5,000#   |              | Slight leak, blew up guage on manifold. Replace guage                 |
| 23     | "  | "                     | 5,000#   |              | Pressure loss, repressure. Leak thru cap on check valve on kill line. |
| 24     | "  | "                     | 5,000#   | 35 min.      | No visible leak   |
|        | Choke line & manifold w/outside wing valves & outlet valve on manifold & valve on choke line @ manifold closed.    |                       |          |              |   |
| 25     | "  | "                     | 5,000#   | 5 min.       | No visible leak   |
|        |  |                       |          |              |   |
|        |  |                       |          |              |   |
|        |  |                       |          |              |   |
|        |  |                       |          |              |   |

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

5. LEASE DESIGNATION AND SERIAL NO.

ML 28604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Indian Cove State Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SW/4 SE/4 Section 23,  
T-7-N, R-7-W

12. COUNTY OR PARISH 18. STATE

Box Elder

UT

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR  
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR  
501 Airport Drive Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface 522' FSL x 2140' FEL, Section 23, T-7-N, R-7-W

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
Lake Elevation 4199'

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other)

Surface Casing

X

(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.)\*

Drilled 17-1/2" hole to 3530'. Ran 13-3/8", 72#, K-55 & 68#, N-80 casing. Landed at 3512'. Cemented with 2150 sx Howco lite, 6% gel, followed with 400 sx Class "G" Neat. Lost returns after 2000 sx. Circulated approximately 35 bbls. cement contaminated with heavy mud. Annulus did not fall after cement job. Set BOP and tested casing, lines & valves to 5000 psi for 30 minutes; held OK. Prepared to drill ahead with hole size reduced to 12-1/4".



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

SIGNED

*E. Svoboda*

TITLE

Area Adm. Supervisor

DATE

7/28/78

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

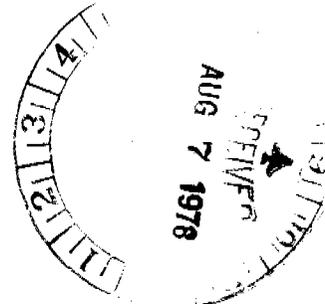


**Amoco Production Company**

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401

L. O. Speer, Jr.  
Area Superintendent

August 3, 1978



Cleon B. Feight  
State of Utah Dept. of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

File: LOS-453-400.1

Dear Sir:

Blowout Preventer Hydrostatic Test Report

Attached is a copy of the report documenting the hydrostatic test of the blowout equipment on our Indian Cove State Unit No. 1. The test was conducted on July 16, 1978, by Yellow Jacket Tools and Services, Inc., of Vernal, Utah.

This test data is provided as evidence of compliance with Contingency #1 of your letter approving our application for permit to drill.

Yours very truly,

JLK:yrq  
Attachment

STATE OF UTAH  
 OIL & GAS CONSERVATION COMMISSION  
 Salt Lake City 14, Utah



REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Box Elder Field or Lease Indian Cove State Unit

The following is a correct report of operations and production (including drilling and producing wells) for July, 1978.

Agent's address 501 Airport Drive Company Amoco Production Company

Farmington, NM 87401

Signed [Signature]

Phone 505-325-8841

Agent's title Area Administrative Supervisor

State Lease No. ML28604 Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

| Sec. & 1/4 of 1/4 | Twp. | Range | Well No. | *Status | Oil Bbls. | Water Bbls. | Gas MCF's | REMARKS<br>(If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test) |
|-------------------|------|-------|----------|---------|-----------|-------------|-----------|--|
| SW/4 SE/4 S.23    | 7N   | 7W    | 1        |         |           |             |           | No. of Days Produced<br>Drilling 6833  |

Note: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold; \_\_\_\_\_ runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection



**Amoco Production Company**

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401

L. O. Speer, Jr.  
Area Superintendent

August 14, 1978

Cleon B. Feight  
State of Utah Dept. of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

FILE: LOS-400.1- 473

Dear Sir:

Blowout Preventer Hydrostatic Test Report

Attached is a copy of the report documenting the hydrostatic test of the blowout equipment on our Indian Cove State Unit No. 1. The test was conducted on July 26, 1978, by Yellow Jacket Tools and Services, Inc., of Vernal, Utah.

This test data is provided as evidence of compliance with Contingency #1 of your letter approving our application for permit to drill.

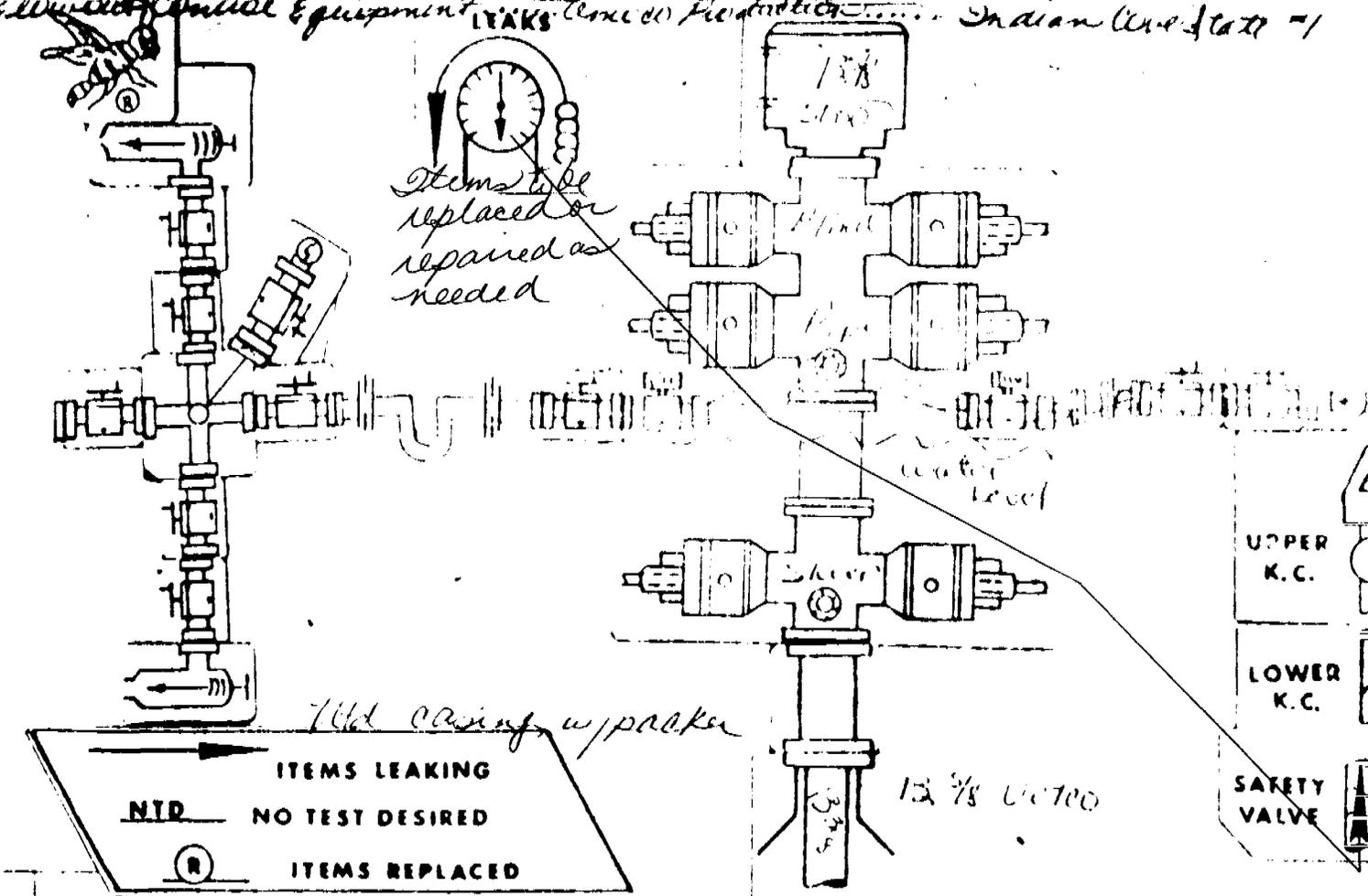
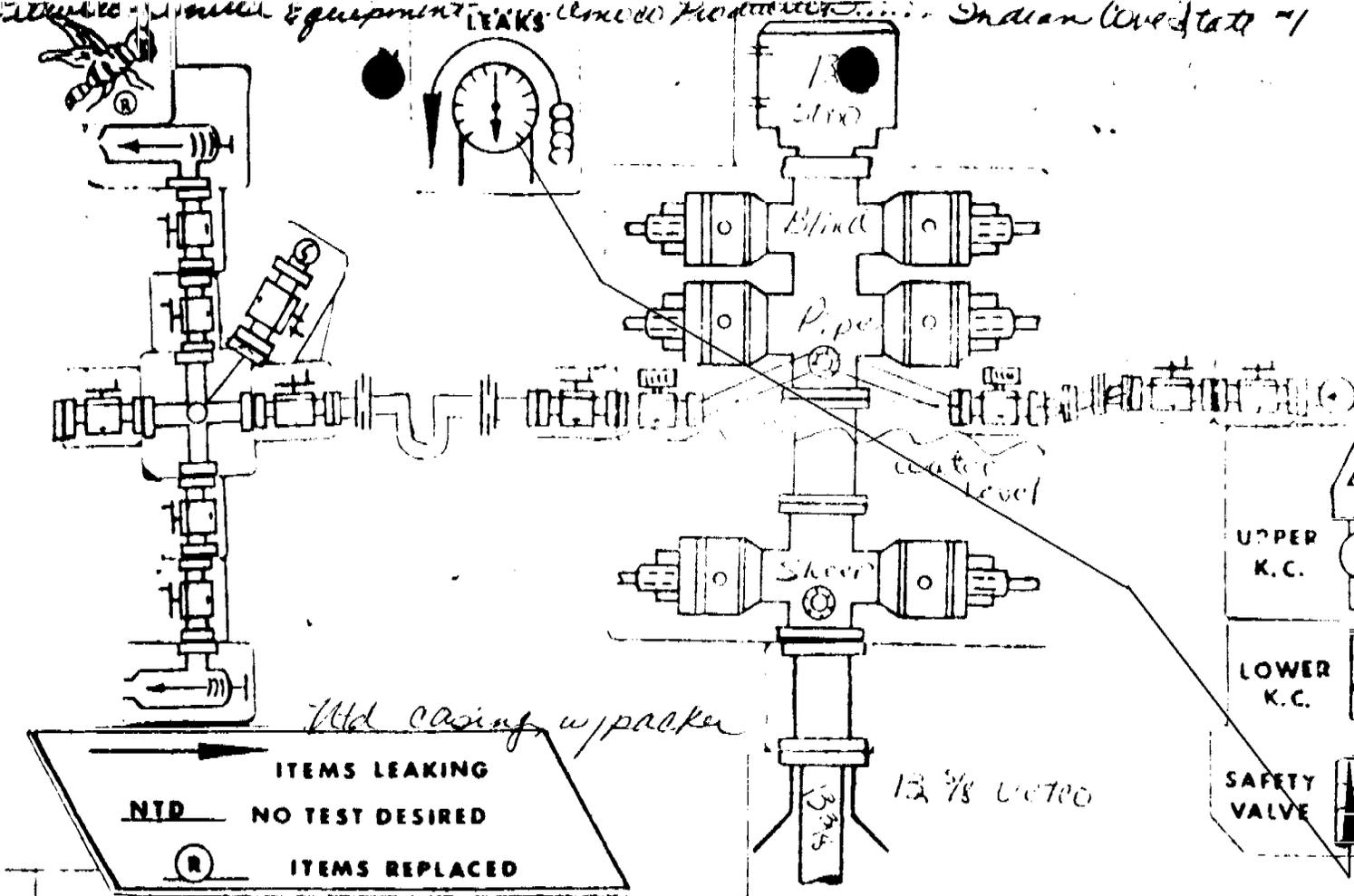
Yours very truly,

JLK:lw

Attachment



HYDROSTATIC PRESSURE TEST - B.O.P.'s  
Amoco Production Co. - Indian Cove State #1  
Parker - Rig No. 148  
July 26, 1978  
by  
Yellow Jacket Tools and Services, Inc.  
Vernal, Utah  
Tested by: Jay Stubbs



Items leaking at conclusion of testing 7-26-78

July 31, 1978

Amoco Production Company  
501 Airport Drive  
Farmington, NM 87401

RE: Hydrostatic pressure test on your Indian Cove State #1, located  
in the Great Salt Lake, Utah area in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on  
July 26, 1978.

At the conclusion of testing there were leaks to the  
drill pipe safety valve. Valve Replaced - ~~top~~  
There was no test desired to the top of casing.

A schematic of surface control equipment has been prepared with leaks and  
or malfunctions posted thereto for your consideration. Also, enclosed is  
a copy of the report taken from field notes during testing and pressure  
readings of the test.

Your comments or suggestions as to how we may better serve you will cer-  
tainly be appreciated.

Sincerely yours,

Yellow Jacket Tools and Services, Inc.

  
Jay E. Stubbs

ell/Enclosures



OIL & GAS CONSERVATION COMMISSION

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.)

5. LEASE DESIGNATION AND SERIAL NO.  
NL 28604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Indian Cove State Unit

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA  
SW/4 NE/4 Section 23, T-7-N, R-7-W

12. COUNTY OR PARISH  
Box Elder

13. STATE  
UT

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR  
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR  
501 Airport Drive Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
522' FSL x 2140' FEL, Section 23, T-7-N, R-7-W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
Lake Elevation - 4199'

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

| NOTICE OF INTENTION TO:                      |   | SUBSEQUENT REPORT OF:   |  |
|--|---|---|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/>   | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>    | FRACTURE TREATMENT <input type="checkbox"/>   | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>             | SHOOTING OR ACIDIZING <input type="checkbox"/>  | ABANDONMENT* <input type="checkbox"/>    |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANS <input type="checkbox"/>         | (Other) <u>Intermediate Casing</u> <input checked="" type="checkbox"/>                                |  |
| (Other) <input type="checkbox"/>             |   | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |  |

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

Drilled 12-1/4" hole to 7874'. Ran 9-5/8" 43.5# N-80 and 40#S-95 casing.. Landed at 7853' KB. Cemented with 260 sx Howco Lite with 3/4% CF-2 and 6% gel and 400 sx Howco Lite with 35% silica flour. Pressure tested casing to 1800 psi; held OK. Prepared to drill ahead with hole size reduced to 8-1/2" /



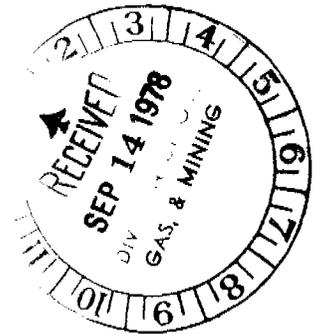
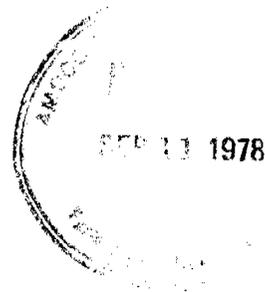
18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Area Adm. Supvr. DATE 8/24/78

(This space for Federal or State office use)

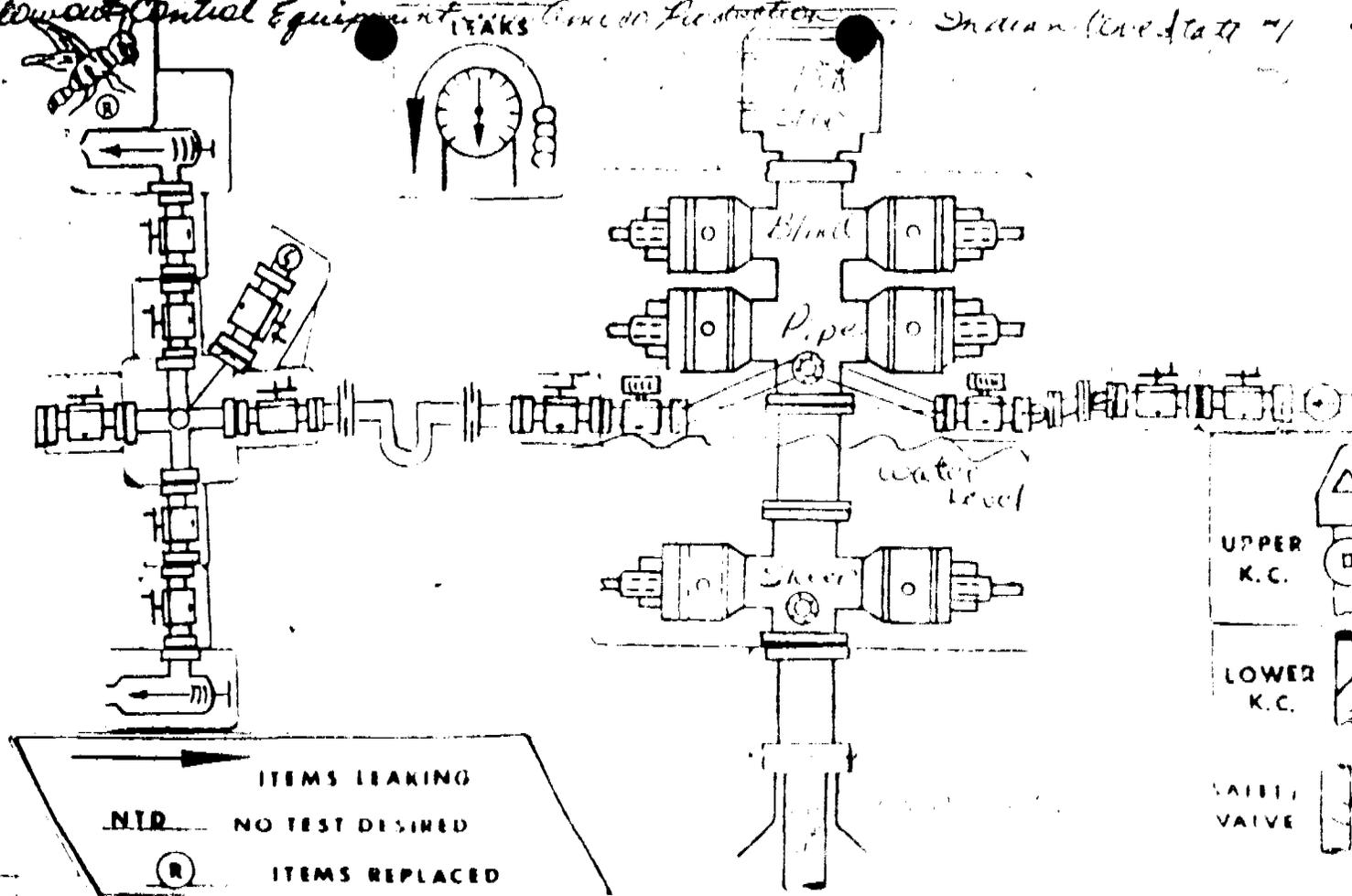
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

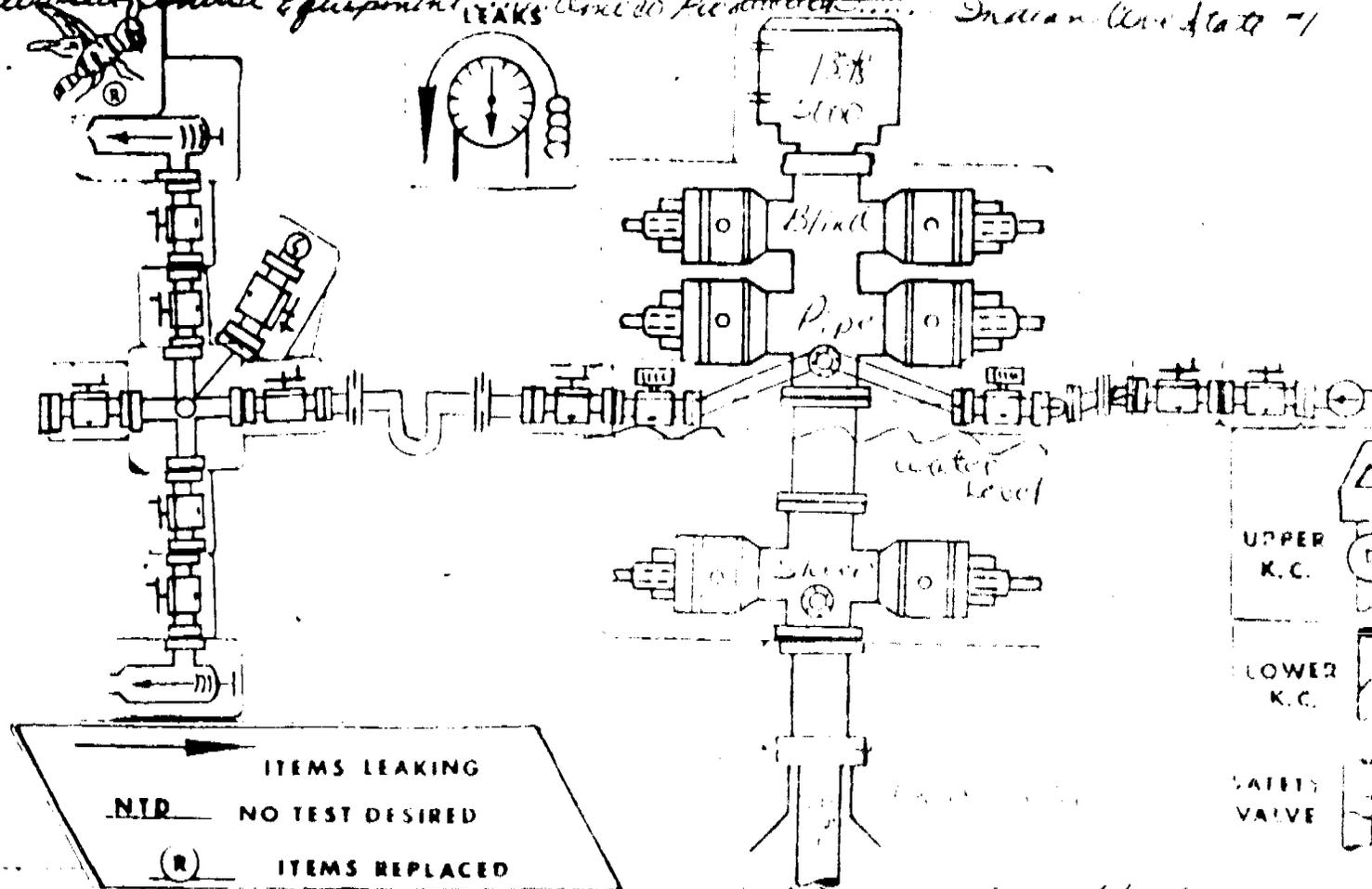


HYDROSTATIC PRESSURE TEST - B.O.P.'s  
Amoco Production - Indian Cove State #1  
Parker - Rig #148  
August 17, 1978  
by  
Yellow Jacket Tools and Services, Inc.  
Vernal, Utah  
Tested by: Ed Schwarz

Ticket No. 5705



*No visible leaks during testing 8-17-78*



*No visible leaks at conclusion of testing 8-17-78*

August 31, 1978

Amoco Production  
501 Airport Drive  
Farmington, New Mexico

RE: Hydrostatic pressure test on your Indian Cove State #1, located  
in the Great Salt Lake area, in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on  
August 17, 1978.

At the conclusion of testing there were no visible leaks to the  
items tested.

A schematic of surface control equipment has been prepared with leaks and  
or malfunctions posted thereto for your consideration. Also, enclosed is  
a copy of the report taken from field notes during testing and pressure  
readings of the test.

Your comments or suggestions as to how we may better serve you will cer-  
tainly be appreciated.

Sincerely yours,

Yellow Jacket Tools and Services, Inc.

*Jay E. Stubbs*  
Jay E. Stubbs

cll/Enclosures







SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

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

I. DANIEL STEWART  
Chairman

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

CLEON B. FEIGHT  
Director

MEMORANDUM  
\*\*\*\*\*

*File in  
Well File  
Z*

TO: Pat Driscoll  
FROM: Jim Smith *JWS*  
SUBJECT: Visit to Amoco's Oil Rig on Great Salt Lake  
DATE: October 11, 1978

On September 22, 1978 Mike Minder and Jim Smith visited Amoco's Great Salt Lake oil rig with Doug Stewart, Director, Division of the Great Salt Lake, Jock Campbell, U.G.M.S., and Carl Oden, C.I.G.

Drilling was temporarily suspended for fishing broken pieces of the bit from the hole which was at a depth of 10,488 feet. Amoco expected to drill another 1,200 feet with no shows so far.

We met Arlo Cleaver, the rig foreman, and Ted Solarz, the geologist.

We also inspected the causeway prior to the rig visit to see what Union Pacific Railroad was doing about cleaning the culverts and extending the jetty to facilitate water flow from the north to south arm of the lake. Apparently they weren't doing all that they should be.

sp

1978

R

HYDROSTATIC PRESSURE TEST - B.O.P.'s

Amoco Production Company - Indian Cove State #1  
Parker - Rig #148  
September 29, 1978

by

Yellow Jacket Tools and Services, Inc.

Vernal, Utah

Tested by: Brad Jackson

Ticket No. 4639



October 4, 1978

Amoco Production Company  
501 Airport Drive  
Farmington, New Mexico 87401

RE: Hydrostatic pressure test on your Indian Cove State #1, located in the Great Salt Lake, Utah area, in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on September 29, 1978.

At the conclusion of testing there were no visible leaks to the items tested.

A schematic of surface control equipment has been prepared with leaks and or malfunctions posted thereto for your consideration. Also, enclosed is a copy of the report taken from field notes during testing and pressure readings of the test.

Your comments or suggestions as to how we may better serve you will certainly be appreciated.

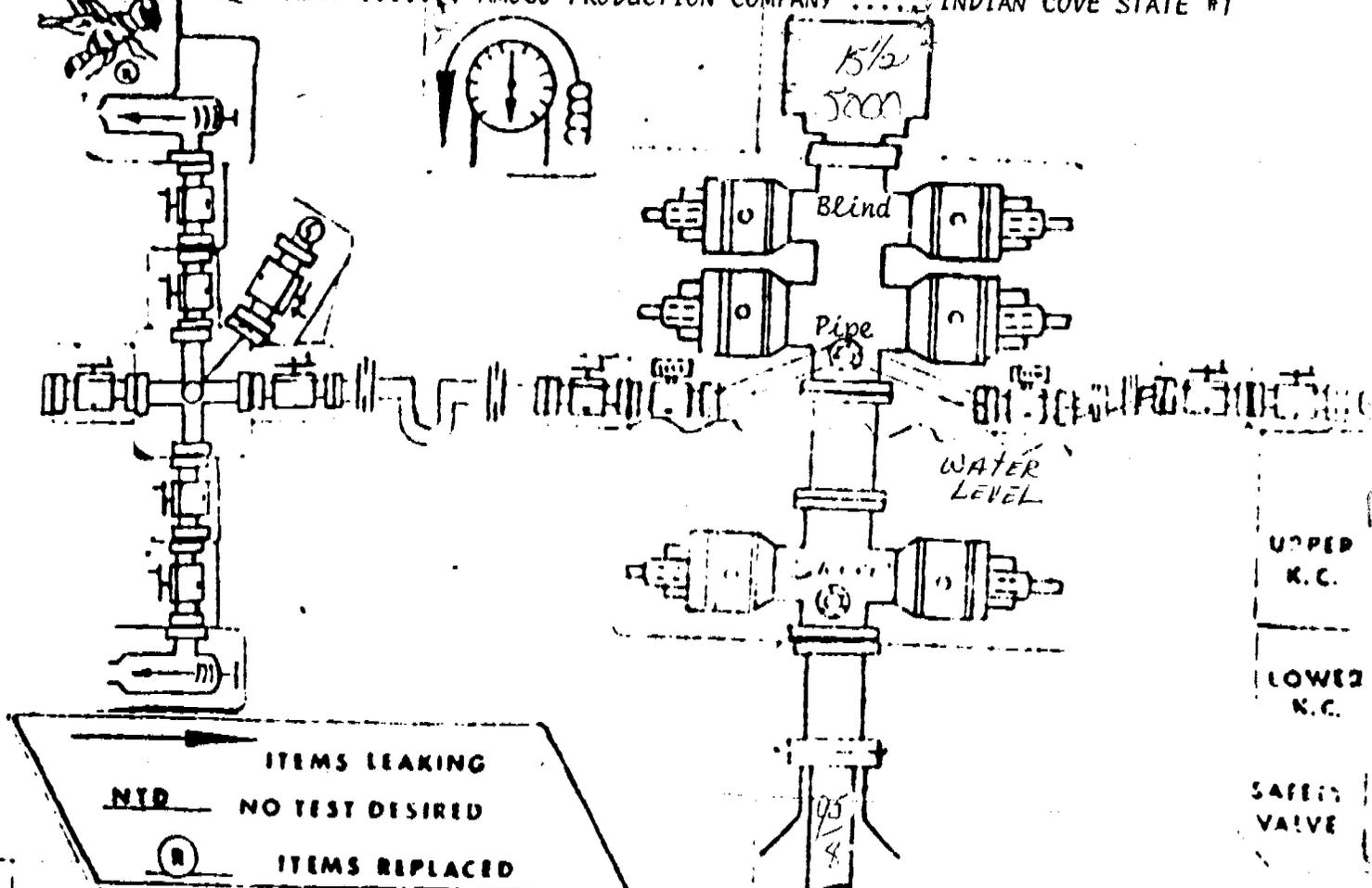
Sincerely yours,

Yellow Jacket Tools and Services, Inc.

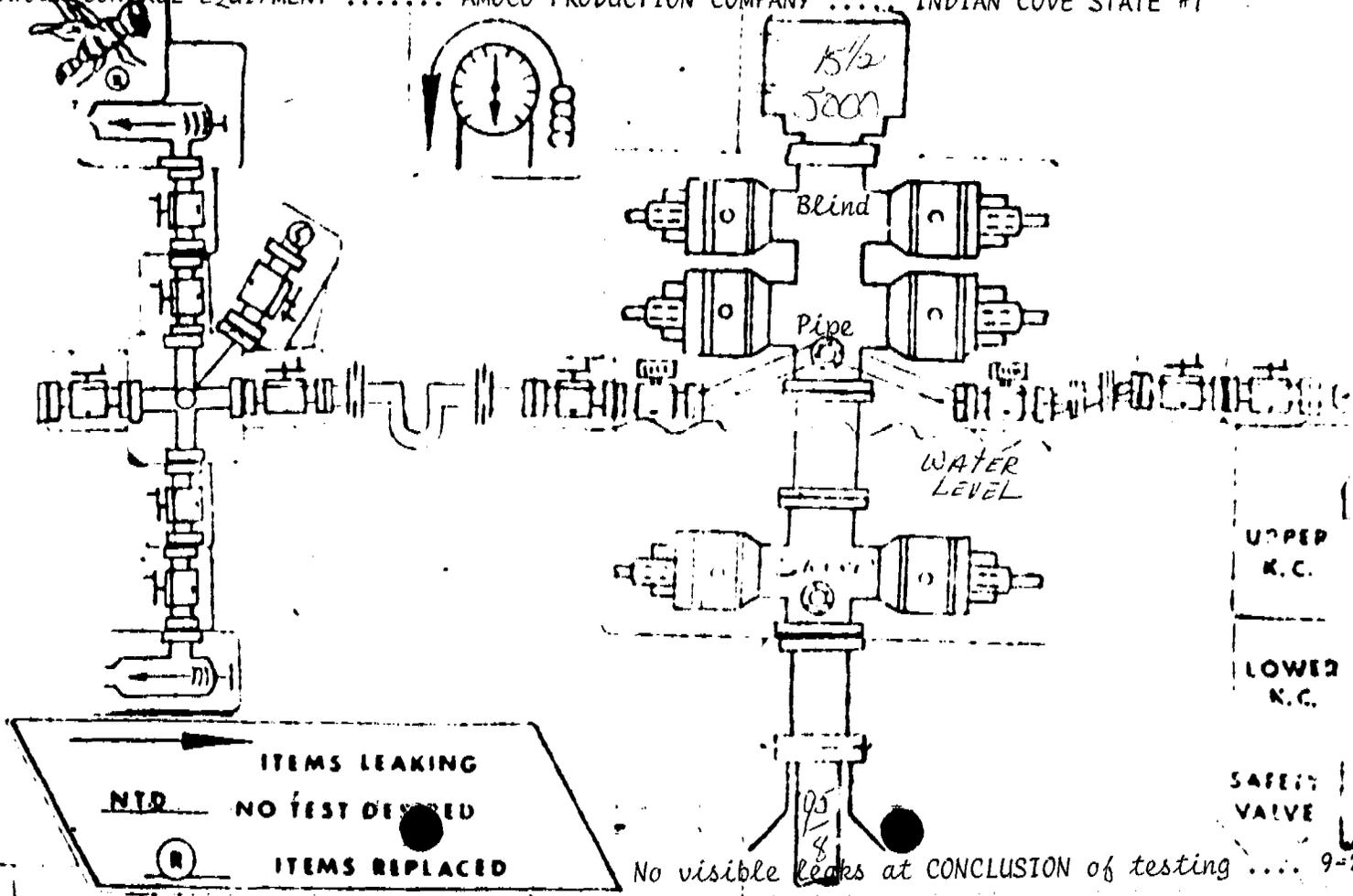


Jay E. Stubbs

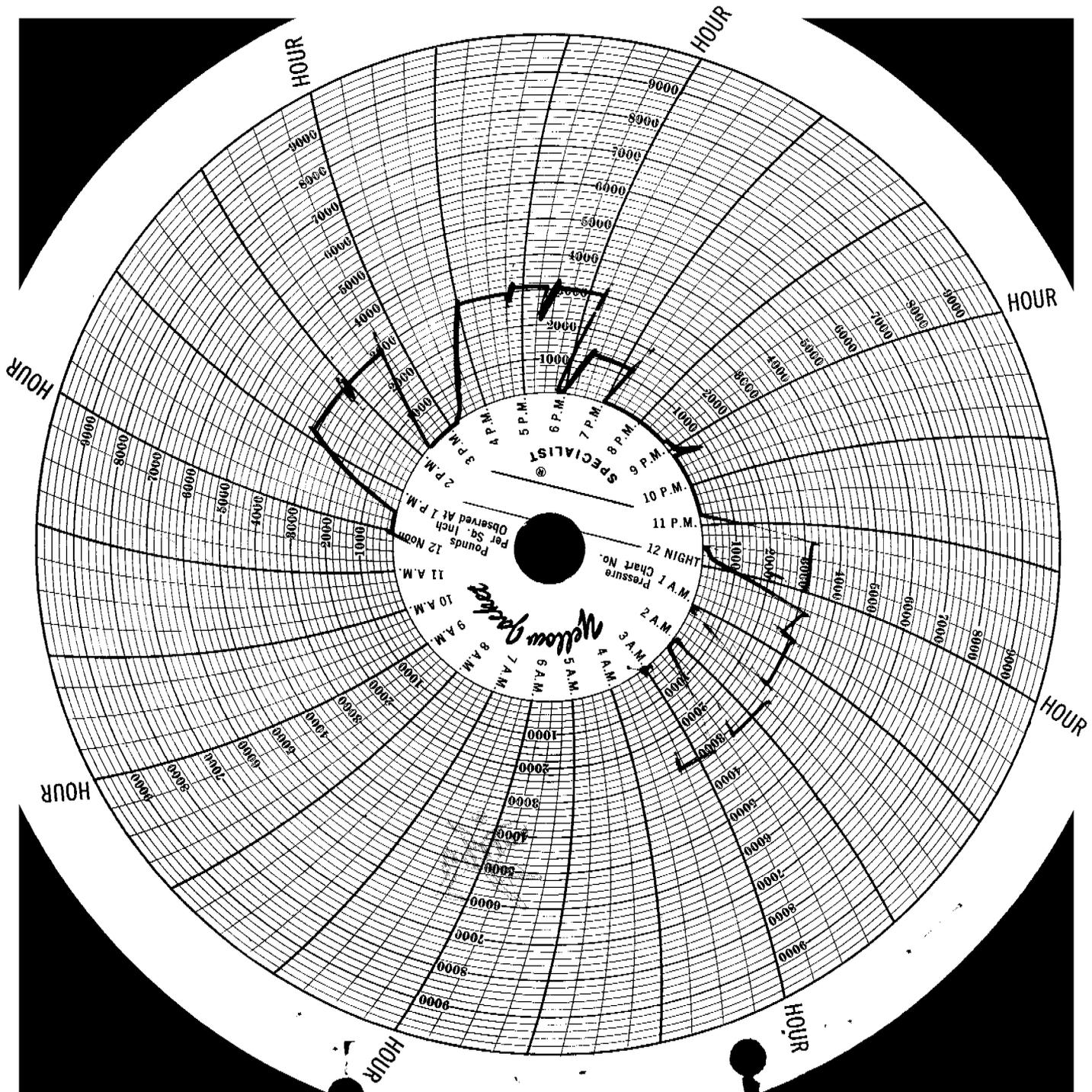
ell/Enclosures



No visible leaks DURING testing..... 9-29-78



No visible leaks at CONCLUSION of testing .... 9-29-78



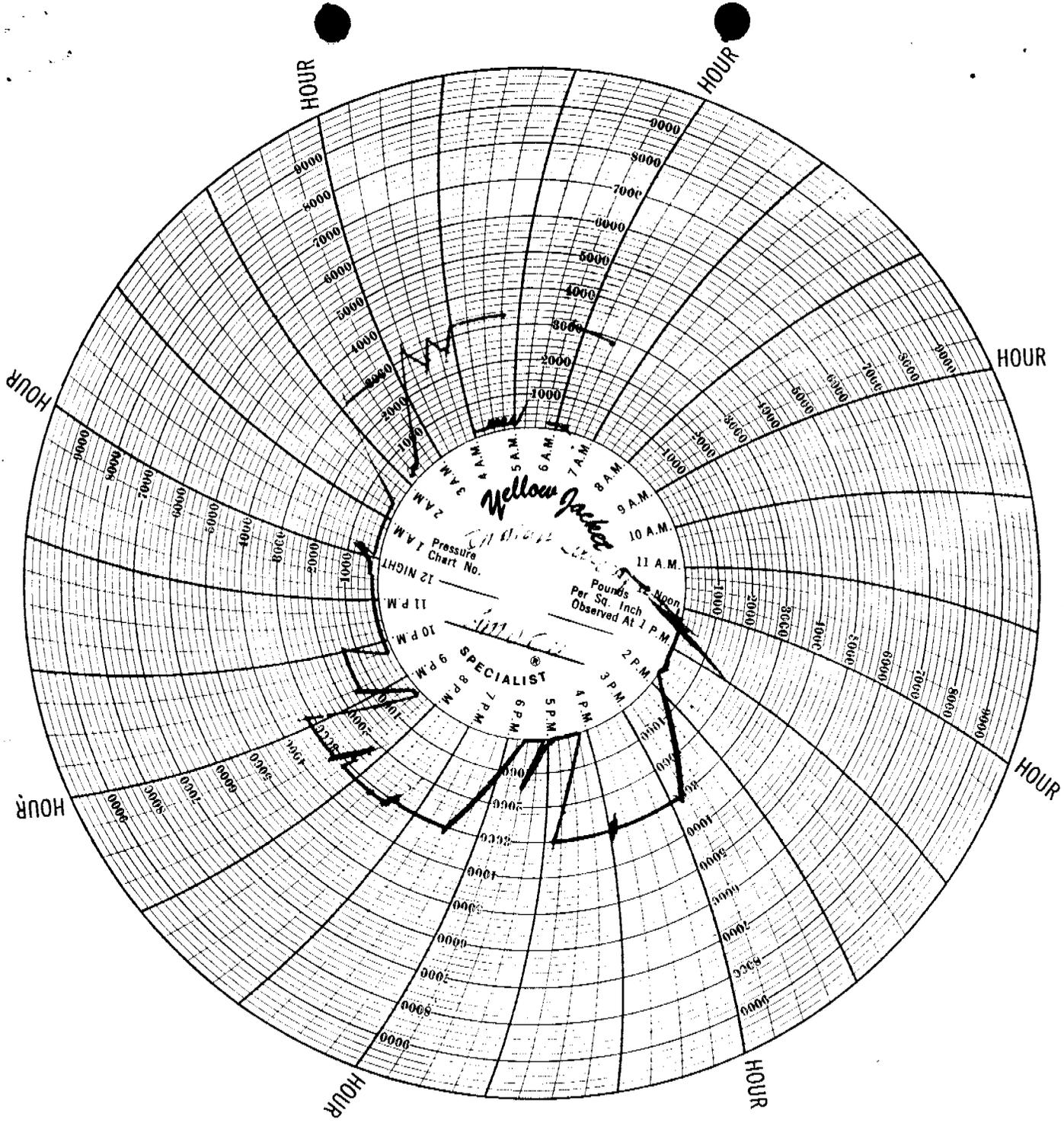
COMPANY Amoco Production Co.

Well Indian Cove #1

Date 9-23-78



| Test # | Items Tested   | Pressure Pt.      | Pressure | Minutes Held | Results   |
|--------|--|-------------------|----------|--------------|---|
| 1      | Blind rams, choke line & manifold w/ inside wing valves on manifold closed & inside valve on kill line closed @ stack. | Conn. on manifold | 3,000#   | 16 min.      | No visible leaks, close outside valves on manifold & open inside valves, close 2nd valve on kill line & open inside valve, No visible leaks   |
| 2      | Pipe rams, kill line w/ 3rd valve closed & inside valve on choke line closed @ stack.                                  | Down drill pipe   | 1,500#   |              | Leak thru down hole tester.   |
| 3      |  |                   | 3,000#   | 13 min.      | No visible leaks, open 3rd valve on kill line to check valve & open inside valve on choke line & 2nd valve on choke line & 2nd valve on choke line repress to 3000#, No visible leaks, Open 2nd valve on choke line & close 3rd valve on choke line @ manifold, repress. No visible leaks |
| 4      | Hydrill w/ inside valves on choke line & kill line closed.   |                   | 1,500#   | 15 min.      | Lay down tools, & set wear ring. No visible leaks.  |
| 5      | Lower kelly cock.  |                   | 3,000#   | 14 min.      | No visible leaks  |
| 6      | Upper kelly cock.  |                   | #        | 15 min.      | No visible leaks, loss & repress. to 3000#, four times.   |
| 7      | Dart type safety valve, would not hold, clean valve.   |                   | 3,000#   | 15 min.      | No visible leaks  |



October 11, 1978

Amoco Production Company  
501 Airport Drive  
Farmington, New Mexico 87401

RE: Hydrostatic pressure test on your Indian Cove #1, located in the Salt Lake City, Utah area, in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on September 23, 1978.

At the conclusion of testing there were no visible leaks to the items tested.

There was no test desired to the safety valve.

A schematic of surface control equipment has been prepared with leaks and or malfunctions posted thereto for your consideration. Also, enclosed is a copy of the report taken from field notes during testing and pressure readings of the test.

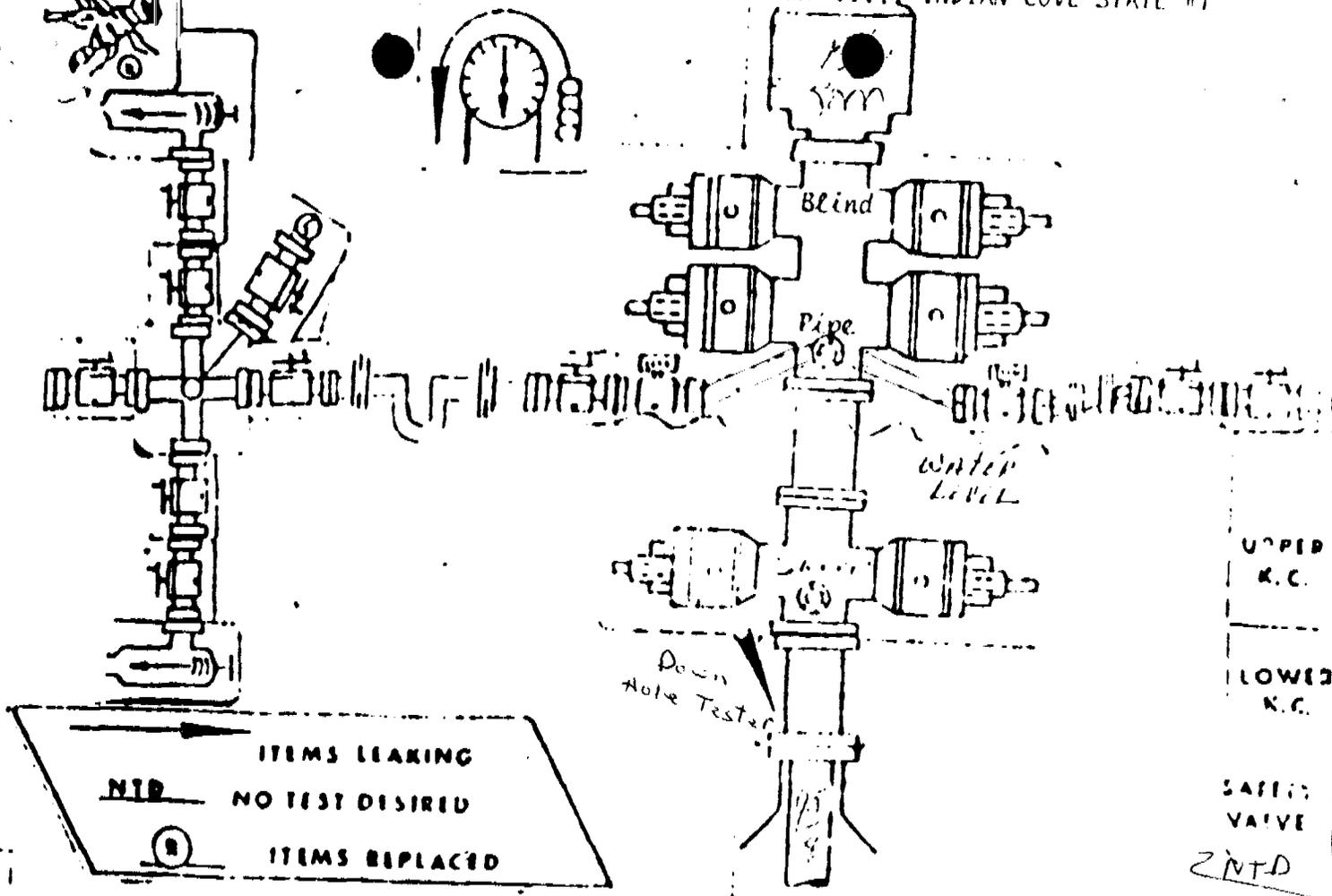
Your comments or suggestions as to how we may better serve you will certainly be appreciated.

Sincerely yours,

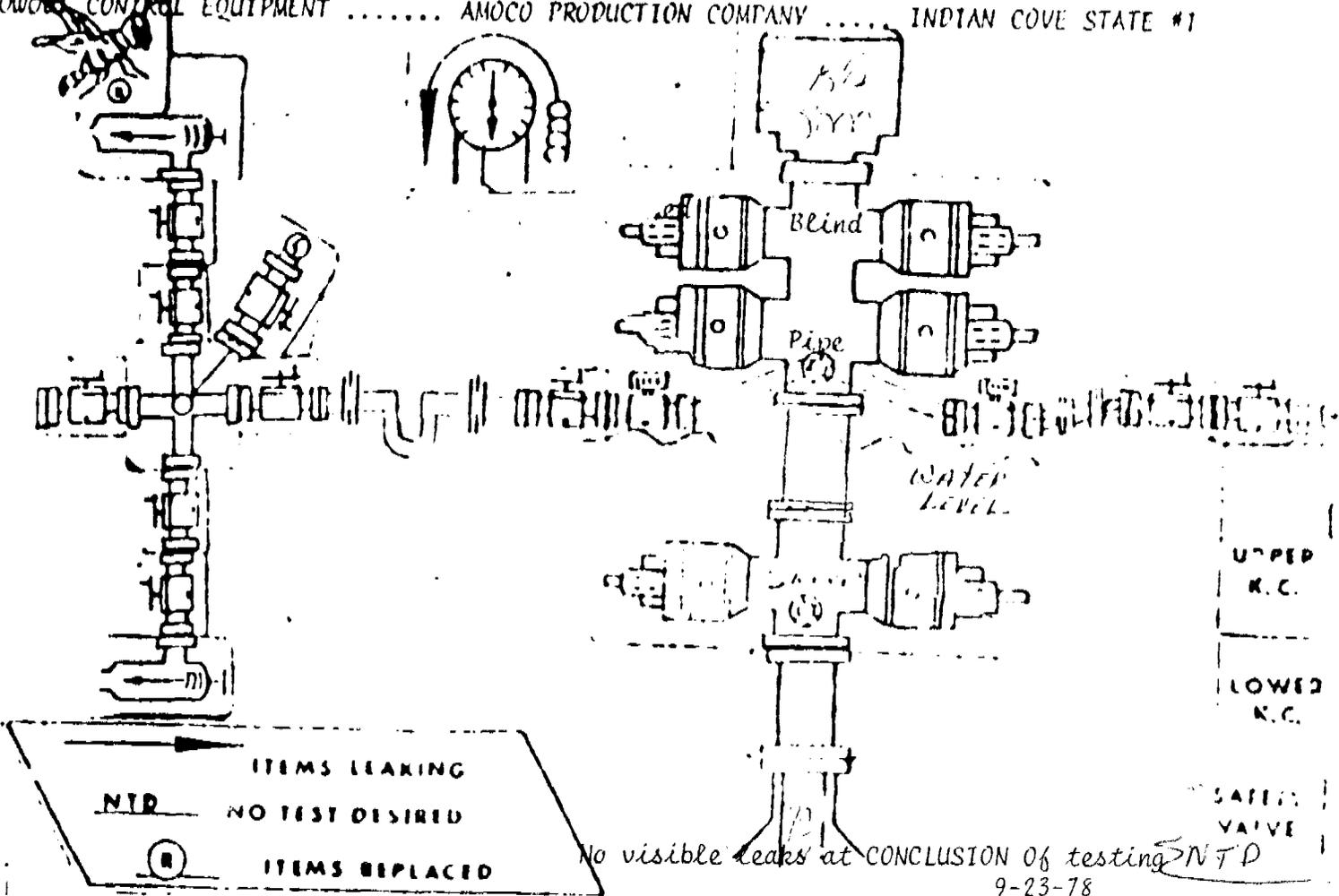
Yellow Jacket Tools and Services, Inc.

  
Jay E. Stubbs

cll/Enclosures



Items leaking DURING testing.....9-23-78



*Joshua  
G. Well*

OCT 1978

*P*

HYDROSTATIC PRESSURE TEST - B.O.P.'s

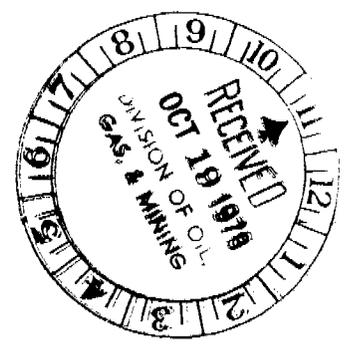
Amaco Production Company - Indian Cove State #1  
Parker - Rig #148  
September 23, 1978

by

Yellow Jacket Tools and Services, Inc.

Vernal, Utah

Tested by: Brad Jackson



Ticket No. 4637

COMPANY Amoco Production Company

Well Indian Cove State #1

Date 9-29-78



| Test # | Items Tested  | Pressure Pt.        | Pressure | Minutes Held | Results  |
|--------|---|---------------------|----------|--------------|--|
| 1      | Blind rams, choke line & manifold w/ inside wing valves on manifold closed & inside valve on kill line closed @ stack | (Conn. on manifold) | 3,000#   | 14 min.      | Press. to 3000#, No visible leaks, close outside wing valves on manifold & open inside valves, open inside valve on kill line & close 2nd valve. Repress. to 5000#, No visible leaks.  |
|        | Pipe rams, kill line w/ 3rd valve closed & inside valve on choke line closed  | Down drill pipe     |          | 12 min.      | Press. to 3000#, No visible leaks, Open 3rd valve on kill line to check valve & open inside valve on choke line to 2nd valve on choke line, repress. to 3000#, No visible leaks, close 3rd valve on choke line @ manifold & open 2nd valve on choke line, repress. to 3000#, No visible leaks. |
| 3      | Hydrill w/ inside valves on choke line & kill lines closed @ stack.   |                     | 1,500#   | 15 min.      | No visible leaks, lay sown tools & set wear ring.  |
| 4      | Lower Kelly cock.   |                     | 3,000#   | 15 min.      | No visible leaks.  |
| 5      | Upper Kelly cock.   |                     |          | 15 min.      | Loss of press., repress. to 3000# No visible leaks.  |
| 6      | Hydrill type safety valve.  |                     |          |              | No visible leaks.  |
| 7      | Dart type safety valve  |                     | 3,000#   | 11 min.      | No visible leaks.  |

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Box Elder Field or Lease Indian Cove State Unit

The following is a correct report of operations and production (including drilling and producing wells) for

September, 1978

Agent's address 501 Airport Drive  
Farmington, NM 87401

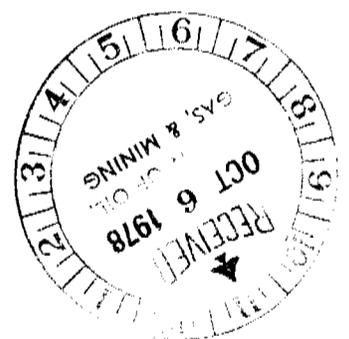
Company Amoco Production Company  
 Signed *J. E. Suoboda*

Phone 505-325-8841

Agent's title District Administrative Supervisor

State Lease No. ML-28604 Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

| Sec. & 1/4 of 1/4 | Twp. | Range | Well No. | *Status | Oil Bbls. | Water Bbls. | Gas MCF's | REMARKS<br>(If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)   |
|-------------------|------|-------|----------|---------|-----------|-------------|-----------|--|
| SW/4 SE/4<br>23   | 7N   | 7W    | 1        |         |           |             |           | <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Days Produced</div> <div>Drilling 11,321</div> </div> |



Note: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold; \_\_\_\_\_ runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Box Elder Field or Lease Indian Cove State Unit

The following is a correct report of operations and production (including drilling and producing wells) for

August, 19 78

Agent's address 501 Airport Drive  
Farmington, New Mexico

Company Amoco Production Company  
 Signed J. J. Svoboda

Phone 505-325-8841

Agent's title Area Administrative Supervisor

State Lease No. ML-28604 Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

| Sec. & 1/4 of 1/4 | Twp. | Range | Well No. | *Status | Oil Bbls. | Water Bbls. | Gas MCF's | REMARKS<br>(If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)  |
|-------------------|------|-------|----------|---------|-----------|-------------|-----------|---|
| SW/4 SE/4<br>23   | 7N   | 7W    | 1        |         |           |             |           | <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Days Produced</div> <div>Drilling 9202'</div> </div> |



Note: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold; \_\_\_\_\_ runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection



HYDROSTATIC PRESSURE TEST - B.O.P.'s

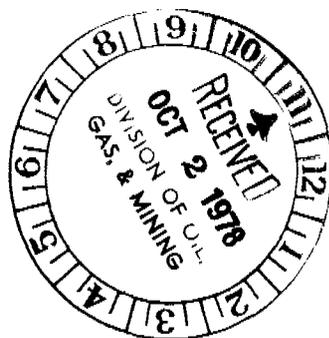
Amoco Production Company - Indian Cove #1  
Parker - Rig #148  
August 29, 1978

by

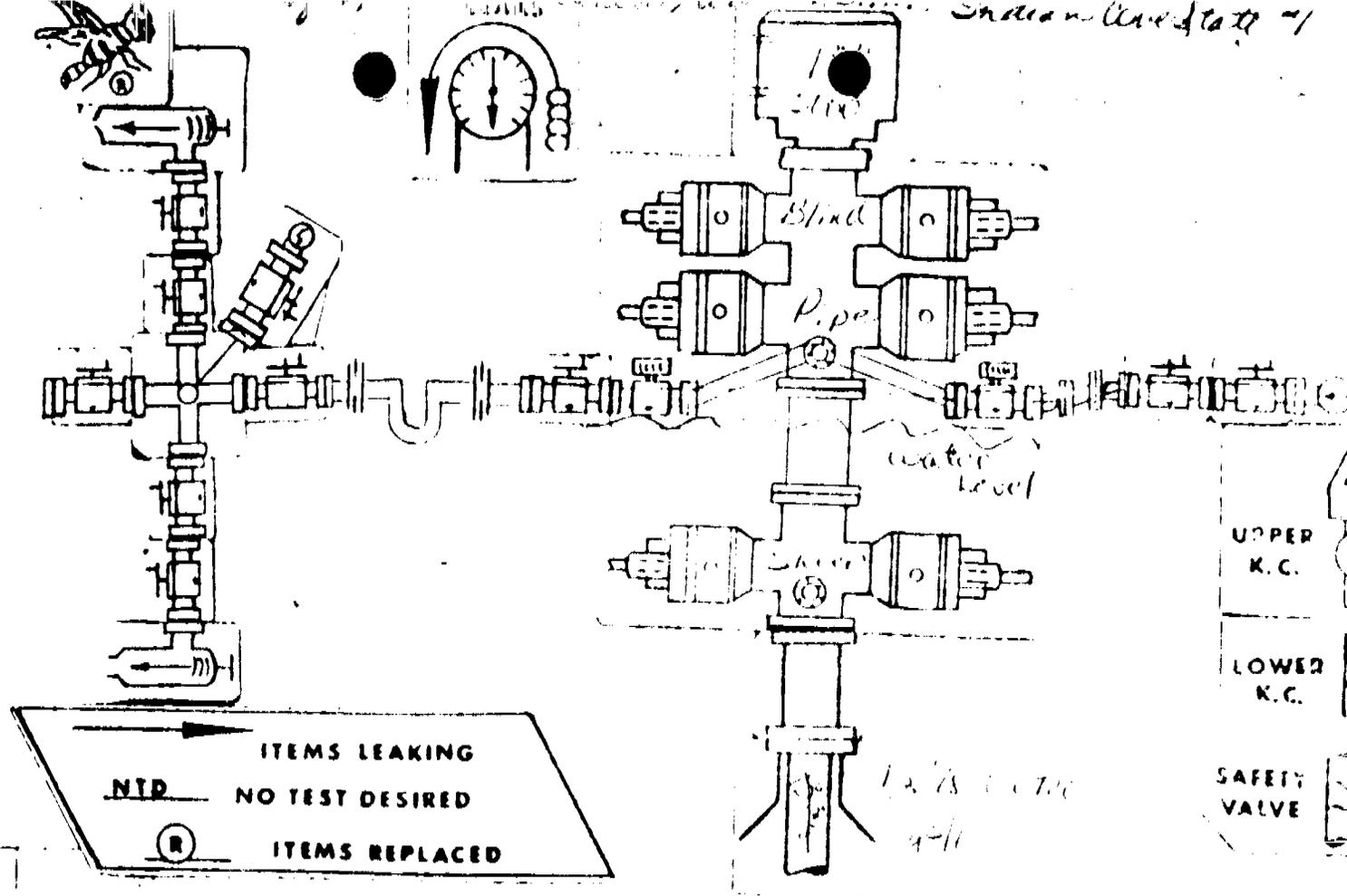
Yellow Jacket Tools and Services, Inc.

Vernal, Utah

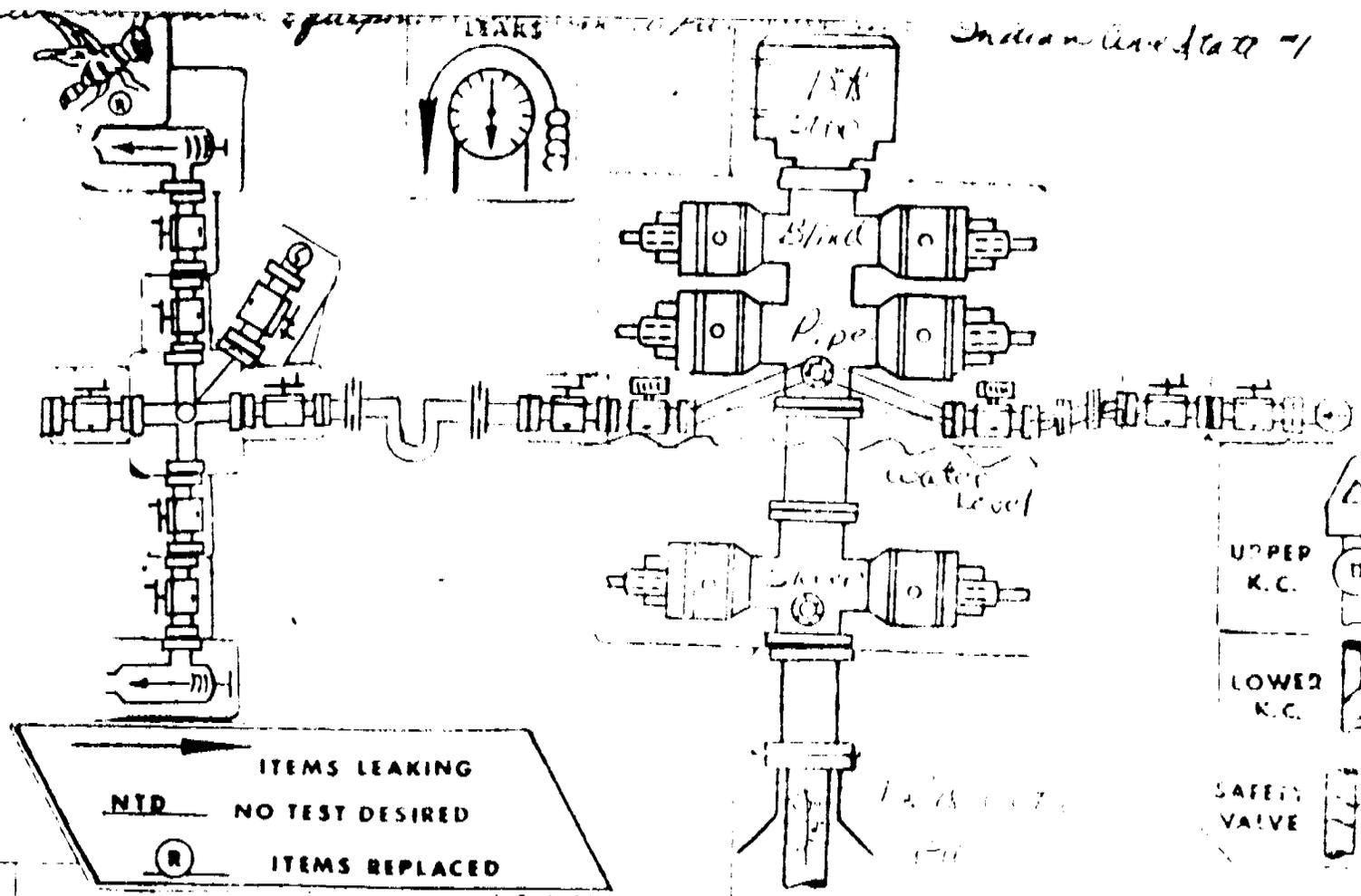
Tested by: Ed Schwarz



Ticket No. 5709

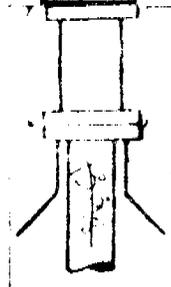
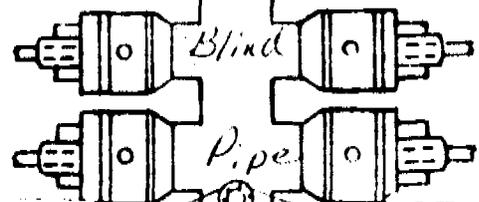
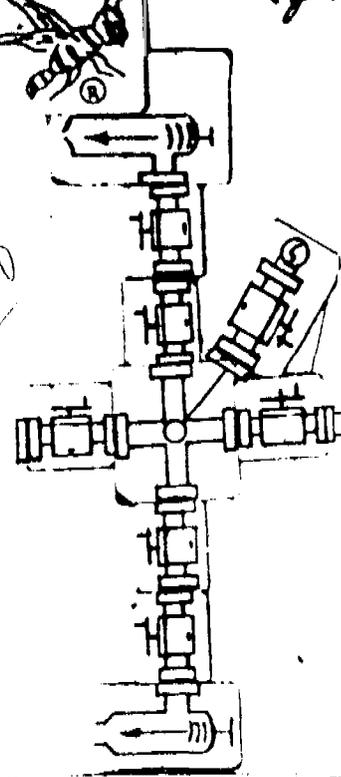
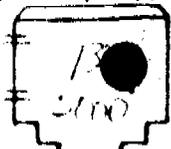
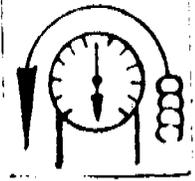


ITEMS LEAKING  
 NTD NO TEST DESIRED  
 (R) ITEMS REPLACED



ITEMS LEAKING  
 NTD NO TEST DESIRED  
 (R) ITEMS REPLACED

*Manning*



ITEMS LEAKING  
 NTD NO TEST DESIRED  
 (R) ITEMS REPLACED

UPPER  
 K.C.  
 LOWER  
 K.C.  
 SAFETY  
 VALVE

*12 2100*

September 20, 1978

Amoco Production Company  
501 Airport Drive  
Farmington, New Mexico 87401  
Att: I. O. Speer

RE: Hydrostatic pressure test on your Indian Cove #1, located in the Great Salt Lakes, Utah area, in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on August 29, 1978.

At the conclusion of testing there were no visible leaks to the items tested.

There was no test desired to the casing.

A schematic of surface control equipment has been prepared with leaks and or malfunctions posted thereto for your consideration. Also, enclosed is a copy of the report taken from field notes during testing and pressure readings of the test.

Your comments or suggestions as to how we may better serve you will certainly be appreciated.

Sincerely yours,

Yellow Jacket Tools and Services, Inc.

*Jay E. Stubbs*  
Jay E. Stubbs

ell/Enclosures



COMPANY

Amoco Prod. Co.

Well Indian Cove #1

Date 8-29-78



| Test # | Items Tested  | Pressure Pt.      | Pressure | Minutes Held | Results  |
|--------|---|-------------------|----------|--------------|--|
| 1      | Choke line & manifold w/ inside wing valves & outlet valve on manifold, & inside valve on choke line @ stack closed.  | Conn. on manifold | 5000#    | 10 min.      | Pressure loss, repress to 5000#<br>No visible leaks.   |
| 2      | Blind rams choke line & manifold w/ outside wing valves & outlet valve on manifold & inside valve on kill line closed | #                 | #        | 10 min.      | No visible leaks   |
| 3      | Pipe rams w/ outside valve on choke line & 2nd valve on kill line closed  | Down drill pipe   | #        | 20 min.      | No visible leaks, Closed inside valve on choke line & closed 3rd valve on kill line & opened outside valve on choke line & 2nd valve on kill line. Repress to 5000# No visible leaks |
| 4      | Hydrill w/ same valves closed as last test  | #                 | 1500#    | 8 min.       | No visible leaks   |
| 5      | Safety valve (Dart Type)  | #                 | 5000#    | 10 min.      | Press loss repress to 5000#<br>No visible leaks  |
|        | Safety valve (Hydrill type)   | #                 | #        | 15 min.      | No visible leaks   |
| 7      | Kelly & Kelly cock.   | #                 | #        | 8 min.       | On lower kelly cock, No visible leaks  |
| 8      |   | #                 | #        | 15 min.      | Press loss repress to 5000# on upper kelly cock, ok'ed No visible leaks.   |

October 18, 1978

MEMO TO FILE

Re: AMOCO PRODUCTION COMPANY  
Well No. Indian Cove #1  
SW NE Sec. 23, T. 7N, R. 7W  
Box Elder County, Utah

CONFIDENTIAL

Amoco Production Company has drilled this wildcat well to a total depth of 12,470'. At this point, they felt they have penetrated the Pre-Cambrian Formation from an estimated depth of 12,416 to 12,470.

The following plugs are designed to cover zones of porosity up to a point at 9,100'. From this point on, they will conduct several D.S.T.'s before continuing any type of plugging program. Any potential pipe recovery will occur above 8,000', so pipe recovery will not be incidental to this proposed program.

|         |                 |
|---------|-----------------|
| Plug #1 | 12,470 - 12,000 |
| Plug #2 | 12,000 - 11,400 |
| Plug #3 | 10,800 - 10,400 |
| Plug #4 | 10,000 - 9,600  |

  
PATRICK L. DRISCOLL  
CONSULTANT  
DIVISION OF OIL, GAS, & MINING

PLD/1w

COMPANY AMOCO PRODUCTION COMPANY  
WELL INDIAN COVE STATE #1  
TEST NO. 3  
COUNTY  
BOX ELDER  
STATE UTAH

NOV 1978



JOHNSTON  
**Schlumberger**

**technical  
report**

**SURFACE INFORMATION**

| Description (Rate of Flow) | Time | Pressure (P.S.I.G.) | Surface Choke |
|----------------------------|------|---------------------|---------------|
| Opened Tool                | 0813 | -                   | 1/8"          |
| BLOW, 1/8" IN WATER        |      |                     |               |
| BLOW OFF BOTTOM OF BUCKET  | 0816 | -                   | "             |
| BLOW, 1 1/2" IN WATER      | 0822 | -                   | "             |
| CLOSED FOR INITIAL SHUT-IN | 0823 | -                   | "             |
| FINISHED SHUT-IN           | 0923 | -                   | "             |
| RE-OPENED TOOL             | 0925 | -                   | "             |
| NO BLOW                    |      |                     |               |
| BLOW, 1 1/2" IN WATER      | 0931 | -                   | "             |
| MUD DROPPED IN ANNULUS     | 0932 | -                   | "             |
| RE-SET PACKER              | 0957 | -                   | "             |
| MUD DROPPED IN ANNULUS     | 0958 | -                   | "             |
| PULLED PACKER LOOSE        | 1000 | -                   | "             |

**EQUIPMENT & HOLE DATA**

|                          |                        |                 |
|--------------------------|------------------------|-----------------|
| Type Test                | M.F.E. STRADDLE CASING |                 |
| Formation Tested         | -                      |                 |
| Elevation                | 4223 K.B.              | Ft.             |
| Net Productive Interval  | 75                     | Ft.             |
| Estimated Porosity       | 4                      | %               |
| All Depths Measured From | KELLY BUSHING          |                 |
| Total Depth              | 9560                   | Ft.             |
| Main Hole/Casing Size    | 7" X 26#               |                 |
| Rat Hole/Liner Size      | -                      |                 |
| Drill Collar Length      | 94'                    | I.D. 2.25"      |
| Drill Pipe Length        | 1980'; 7120'           | I.D. 2.6"; 3.8" |
| Packer Depth(s)          | 9224 & 9335            | Ft.             |

**MULTI-FLOW EVALUATOR  
FLUID SAMPLE DATA**

|                       |      |                     |
|-----------------------|------|---------------------|
| Sampler Pressure      | 10   | P.S.I.G. at Surface |
| Recovery: Cu. Ft. Gas | -    |                     |
| cc. Oil               | -    |                     |
| cc. Water             | -    |                     |
| cc. Mud               | 2300 |                     |
| Tot. Liquid cc.       | 2300 |                     |
| Gravity               | -    | *API @ °F.          |
| Gas/Oil Ratio         | -    | cu. ft./bbl.        |

|                         | RESISTIVITY  | CHLORIDE CONTENT |
|-------------------------|--------------|------------------|
| Recovery Water          | - @ - °F.    | - ppm            |
| Recovery Mud            | .08 @ 70 °F. |                  |
| Recovery Mud Filtrate   | - @ - °F.    | 119,000 ppm      |
| Mud Pit Sample          | .08 @ 69 °F. |                  |
| Mud Pit Sample Filtrate | - @ - °F.    | 127,000 ppm      |

|              |        |          |                   |
|--------------|--------|----------|-------------------|
| Cushion Type | Amount | Pressure | Bottom Choke Size |
|              |        |          | 3/4"              |

**MUD DATA**

|                  |                        |             |           |
|------------------|------------------------|-------------|-----------|
| Mud Type         | CALCIUM CHLORIDE-WATER | Wt.         | 8.8       |
| Viscosity        | -                      | Water Loss  | - C.C.    |
| Resist. of Mud   | .08 @ 69 °F.           | of Filtrate | - @ - °F. |
| Chloride Content | 127,000                |             | PPM       |

| RECOVERY DESCRIPTION | FEET | BARRELS | % OIL | % WATER | % OTHERS | API GRAVITY | RESISTIVITY  | CHL. PPM |
|----------------------|------|---------|-------|---------|----------|-------------|--------------|----------|
| MUD                  | 4158 | 30.05   |       |         |          | @ °F.       | @ °F.        |          |
| TOP SAMPLE:          |      |         |       |         |          | @ °F.       | .7 @ 66 °F.  | 11,500   |
| BOTTOM SAMPLE:       |      |         |       |         |          | @ °F.       | .08 @ 68 °F. | 100,000  |
|                      |      |         |       |         |          | @ °F.       | @ °F.        |          |
|                      |      |         |       |         |          | @ °F.       | @ °F.        |          |
|                      |      |         |       |         |          | @ °F.       | @ °F.        |          |
|                      |      |         |       |         |          | @ °F.       | @ °F.        |          |

Remarks: "MARINE OPERATIONS"  
MUD DROPPED IN ANNULUS AFTER 7 MINUTES OF THE FINAL FLOW PERIOD.

Address: 501 AIRPORT DRIVE; FARMINGTON, NEW MEXICO 87401

Company: AMOCO PRODUCTION COMPANY      Field: WILD CAT

Well: INDICAN COVE STATE #1      Location: SEC. 23 - T7N - R7E

Test Interval: 9250' TO 9325'      Test #: 3      Date: 10-4-78

County: BOX ELDER      State: UTAH      Field Report No.: 09546 D

Technician: SIMPER (ROCK SPRINGS)      Test Approved By: MR. HARRELL MC RANEY      No. Reports Requested: 8(3X'S)

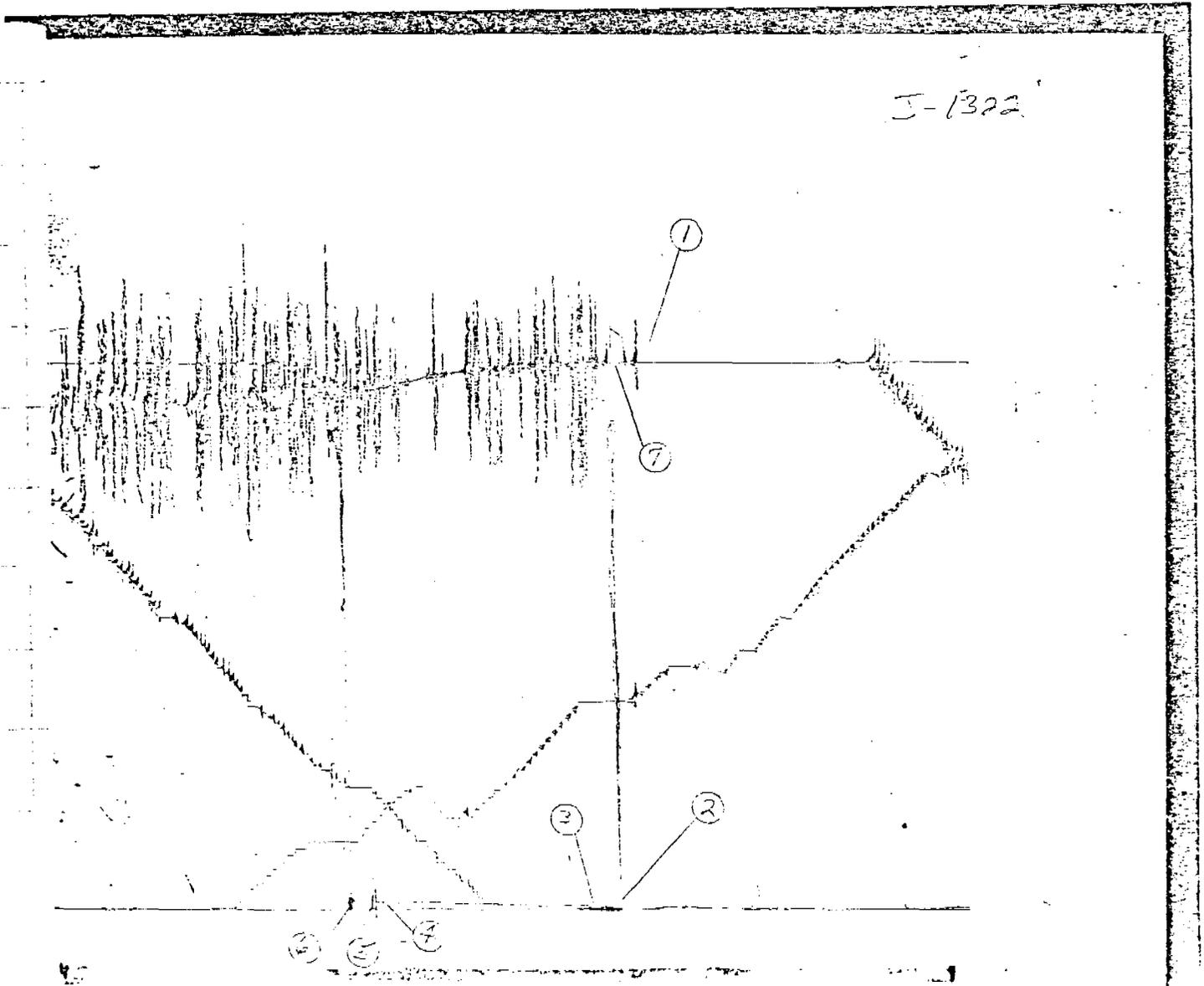
FIELD REPORT NO.: 09546 D

INSTRUMENT NO.: J-1322

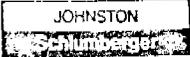
CAPACITY: 6400#

NO. OF REPORTS: 8+

PRESSURE DATA FROM THIS CHART IS PRESENTED ON NEXT PAGE



BOTTOM HOLE PRESSURE AND TIME DATA



INSTRUMENT NO.: J-1322

CAPACITY(P.S.I.): 6400

DEPTH: 9201 FT.

PORT OPENING: INSIDE

BOTTOM HOLE TEMP.: 320

PAGE 1 OF 1

| DESCRIPTION             | LABELED POINTS | PRESSURE (P.S.I.) | GIVEN TIME | COMPUTED TIME |
|-------------------------|----------------|-------------------|------------|---------------|
| INITIAL HYDROSTATIC MUD | 1              | 4151.3            |            |               |
| INITIAL FLOW(1)         | 2              | 64.0              |            |               |
| INITIAL FLOW(2)         | 3              | 33.2              | 10         | 10            |
| INITIAL SHUT-IN         | 4              | 46.8              | 60         | 60            |
| FINAL FLOW(1)           | 5              | 33.2              |            |               |
| FINAL FLOW(2)           | 6              | 24.6              | 7          | 6             |
| FINAL HYDROSTATIC MUD   | 7              | 4146.4            |            |               |

INCREMENTAL READINGS

| LABEL POINT | DELTA TIME | PRESSURE (P.S.I.) | T + DT/DT | LOG   | PW - PF (P.S.I.) | COMMENTS        |
|-------------|------------|-------------------|-----------|-------|------------------|-----------------|
| 1           |            | 4151.3            |           |       |                  | HYDROSTATIC MUD |
| 2           | 0          | 64.0              |           |       |                  | INITIAL FLOW(1) |
| 3           | 10         | 33.2              |           |       |                  | INITIAL FLOW(2) |
| 3           | 0          | 33.2              |           |       |                  | STARTED SHUT-IN |
|             | 1          | 33.2              | 11.000    | 1.041 | 0.               |                 |
|             | 2          | 33.2              | 6.000     | 0.778 | 0.               |                 |
|             | 3          | 33.2              | 4.333     | 0.637 | 0.               |                 |
|             | 4          | 33.2              | 3.500     | 0.544 | 0.               |                 |
|             | 5          | 33.2              | 3.000     | 0.477 | 0.               |                 |
|             | 6          | 33.2              | 2.667     | 0.426 | 0.               |                 |
|             | 7          | 33.2              | 2.429     | 0.385 | 0.               |                 |
|             | 8          | 33.2              | 2.250     | 0.352 | 0.               |                 |
|             | 9          | 33.2              | 2.111     | 0.325 | 0.               |                 |
|             | 10         | 33.2              | 2.000     | 0.301 | 0.               |                 |
|             | 12         | 33.2              | 1.833     | 0.263 | 0.               |                 |
|             | 14         | 33.2              | 1.714     | 0.234 | 0.               |                 |
|             | 16         | 33.2              | 1.625     | 0.211 | 0.               |                 |
|             | 18         | 33.2              | 1.556     | 0.192 | 0.               |                 |
|             | 20         | 34.4              | 1.500     | 0.176 | 1.2              |                 |
|             | 22         | 35.7              | 1.455     | 0.163 | 2.5              |                 |
|             | 24         | 35.7              | 1.417     | 0.151 | 2.5              |                 |
|             | 26         | 36.9              | 1.385     | 0.141 | 3.7              |                 |
|             | 28         | 36.9              | 1.357     | 0.133 | 3.7              |                 |
|             | 30         | 38.1              | 1.333     | 0.125 | 4.9              |                 |
|             | 35         | 39.4              | 1.286     | 0.109 | 6.2              |                 |
|             | 40         | 40.6              | 1.250     | 0.097 | 7.4              |                 |
|             | 45         | 41.8              | 1.222     | 0.087 | 8.6              |                 |
|             | 50         | 43.1              | 1.200     | 0.079 | 9.9              |                 |
|             | 55         | 44.3              | 1.182     | 0.073 | 11.1             |                 |
| 4           | 60         | 46.8              | 1.167     | 0.067 | 13.6             | INITIAL SHUT-IN |
| 5           | 0          | 33.2              |           |       |                  | FINAL FLOW(1)   |
| 6           | 6          | 24.6              |           |       |                  | FINAL FLOW(2)   |
| 7           |            | 4146.4            |           |       |                  | HYDROSTATIC MUD |

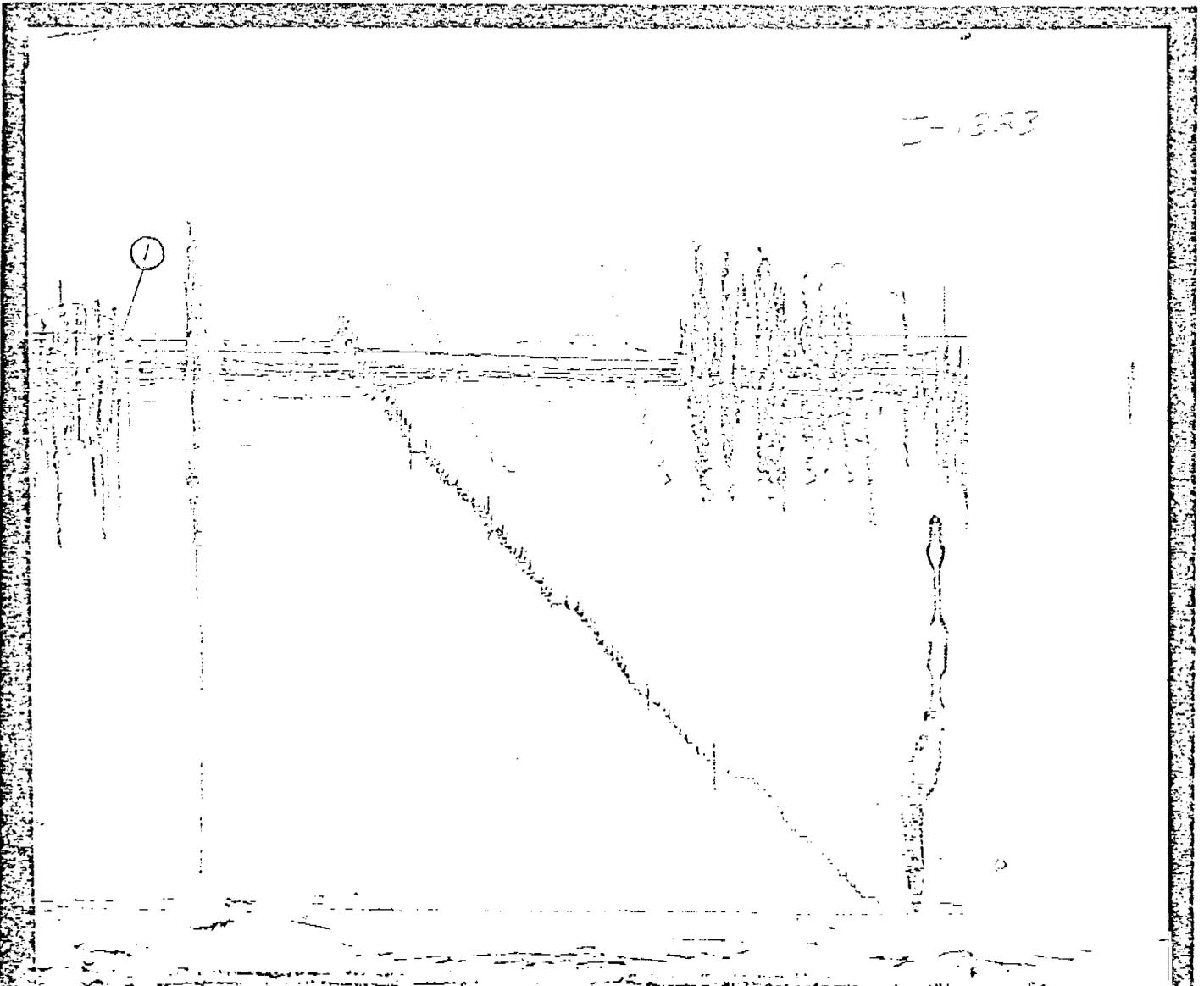
BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1323      CAPACITY (P.S.I.): 6400#      DEPTH      9349 FT.  
PORT OPENING:    OUTSIDE    BOTTOM HOLE TEMP.:      320°F.      FIELD REPORT NO. 09546 D

| DESCRIPTION             | LABELED POINTS | PRESSURE (P.S.I.) | GIVEN TIME | COMPUTED TIME |
|-------------------------|----------------|-------------------|------------|---------------|
| INITIAL HYDROSTATIC MUD | 1              | 4196.8            |            |               |
| INITIAL FLOW (1)        |                |                   |            |               |
| INITIAL FLOW (2)        |                |                   |            |               |
| INITIAL SHUT-IN         |                |                   |            |               |
| SECOND FLOW (1)         |                |                   |            |               |
| SECOND FLOW (2)         |                |                   |            |               |
| SECOND SHUT-IN          |                |                   |            |               |
| FINAL FLOW (1)          |                |                   |            |               |
| FINAL FLOW (2)          |                |                   |            |               |
| FINAL SHUT-IN           |                |                   |            |               |
| FINAL HYDROSTATIC MUD   |                |                   |            |               |

REMARKS:      BELOW STRADDLE. CLOCK STOPPED DURING THE TEST.

8+





JOHNSTON

**Schlumberger**

**technical  
report**

COMPANY AMOCO PRODUCTION COMPANY  
 WELL INDIAN COVE STATE #1 TEST NO. 2 COUNTY BOX ELDER STATE UTAH

**SURFACE INFORMATION**

| Description (Rate of Flow) | Time | Pressure (P.S.I.G.) | Surface Choke |
|----------------------------|------|---------------------|---------------|
| Opened Tool                | 0740 | -                   | 1/8"          |
| BLOW, 1/8" IN WATER        |      |                     |               |
| CLOSED FOR INITIAL SHUT-IN | 0750 | -                   | "             |
| RE-CYCLED TOOL             |      |                     |               |
| FINISHED SHUT-IN           | 0857 | -                   | "             |
| RE-OPENED TOOL             | 0900 | -                   | "             |
| BLOW, 1/8" IN WATER        |      |                     |               |
| BLOW, 1/2" IN WATER        | 0920 | -                   | "             |
| CLOSED FOR FINAL SHUT-IN   | 1000 | -                   | "             |
| FINISHED SHUT-IN           | 1200 | -                   | "             |
| PULLED PACKER LOOSE        | 1202 | -                   | -             |

**EQUIPMENT & HOLE DATA**

|                          |                              |
|--------------------------|------------------------------|
| Type Test                | M.F.E. CASING                |
| Formation Tested         | -                            |
| Elevation                | 4223 K.B. Ft.                |
| Net Productive Interval  | 50 Ft.                       |
| Estimated Porosity       | 4 %                          |
| All Depths Measured From | KELLY BUSHING                |
| Total Depth              | 9560 PLUGGED BACK Ft.        |
| Main Hole/Casing Size    | 9 5/8"                       |
| Ret Hole/Linar Size      | 7" X 26#                     |
| Drill Collar Length      | 187' LD. 2"                  |
| Drill Pipe Length        | 7159'; 1980' I.D. 3.8"; 2.8" |
| Packer Depth(s)          | 9356 & 9360 Ft.              |

**MULTI-FLOW EVALUATOR  
FLUID SAMPLE DATA**

|                       |                        |
|-----------------------|------------------------|
| Sampler Pressure      | 30 P.S.I.G. at Surface |
| Recovery, Cu. Ft. Gas | -                      |
| cc. Oil               | -                      |
| cc. Water             | 1760                   |
| cc. Mud               | -                      |
| Tot. Liquid cc.       | 1760                   |
| Gravity               | - °API @ - °F.         |
| Gas/Oil Ratio         | - cu. ft./bbl.         |

**RESISTIVITY CHLORIDE CONTENT**

|                         |              |             |
|-------------------------|--------------|-------------|
| Recovery Water          | 2.4 @ 80 °F. | 117,000 ppm |
| Recovery Mud            | - @ - °F.    | -           |
| Recovery Mud Filtrate   | - @ - °F.    | - ppm       |
| Mud Pit Sample          | .08 @ 68 °F. | 140,000 ppm |
| Mud Pit Sample Filtrate | - @ - °F.    | - ppm       |

|              |        |          |                   |
|--------------|--------|----------|-------------------|
| Cushion Type | Amount | Pressure | Bottom Choke Size |
| -            | -      | -        | 3/4"              |

**MUD DATA**

|                  |                        |                       |
|------------------|------------------------|-----------------------|
| Mud Type         | CALCIUM CHLORIDE WATER | Wt. 9.0               |
| Viscosity        | -                      | Water Loss - C.C.     |
| Resist. of Mud   | .08 @ 68 °F.           | of Filtrate - @ - °F. |
| Chloride Content | 140,000                | PPM                   |

| RECOVERY DESCRIPTION | FEET | BARRELS | % OIL | % WATER | % OTHERS | API GRAVITY | RESISTIVITY  | CHL. PPM |
|----------------------|------|---------|-------|---------|----------|-------------|--------------|----------|
| WATER                | 1209 | 8.29    |       |         |          | @ °F.       | @ °F.        |          |
| TOP SAMPLE           |      |         |       |         |          | @ °F.       | 1.2 @ 70 °F. | 66,000   |
| MIDDLE SAMPLE        |      |         |       |         |          | @ °F.       | 2.1 @ 80 °F. | 107,000  |
| BOTTOM SAMPLE        |      |         |       |         |          | @ °F.       | 2.4 @ 80 °F. | 117,000  |
|                      |      |         |       |         |          | @ °F.       | @ °F.        |          |
|                      |      |         |       |         |          | @ °F.       | @ °F.        |          |
|                      |      |         |       |         |          | @ °F.       | @ °F.        |          |

Remarks: MUD LOSS 1 FOOT PER HOUR. "MARINE OPERATIONS"

Address: 501 AIRPORT DRIVE; FARMINGTON, NEW MEXICO 87401

Company: AMOCO PRODUCTION COMPANY  
 Well: INDIAN COVE STATE #1  
 Test Interval: 9400' TO 9450'  
 Location: SEC. 23 - T7N - R7E  
 Test #: 2  
 Date: 11-3-78  
 Field: WILD CAT

County: BOX ELDER State: UTAH  
 Field Report No.: 09545 D  
 No. Reports Requested: 8 (3X)  
 BY: JIM MC MASTER

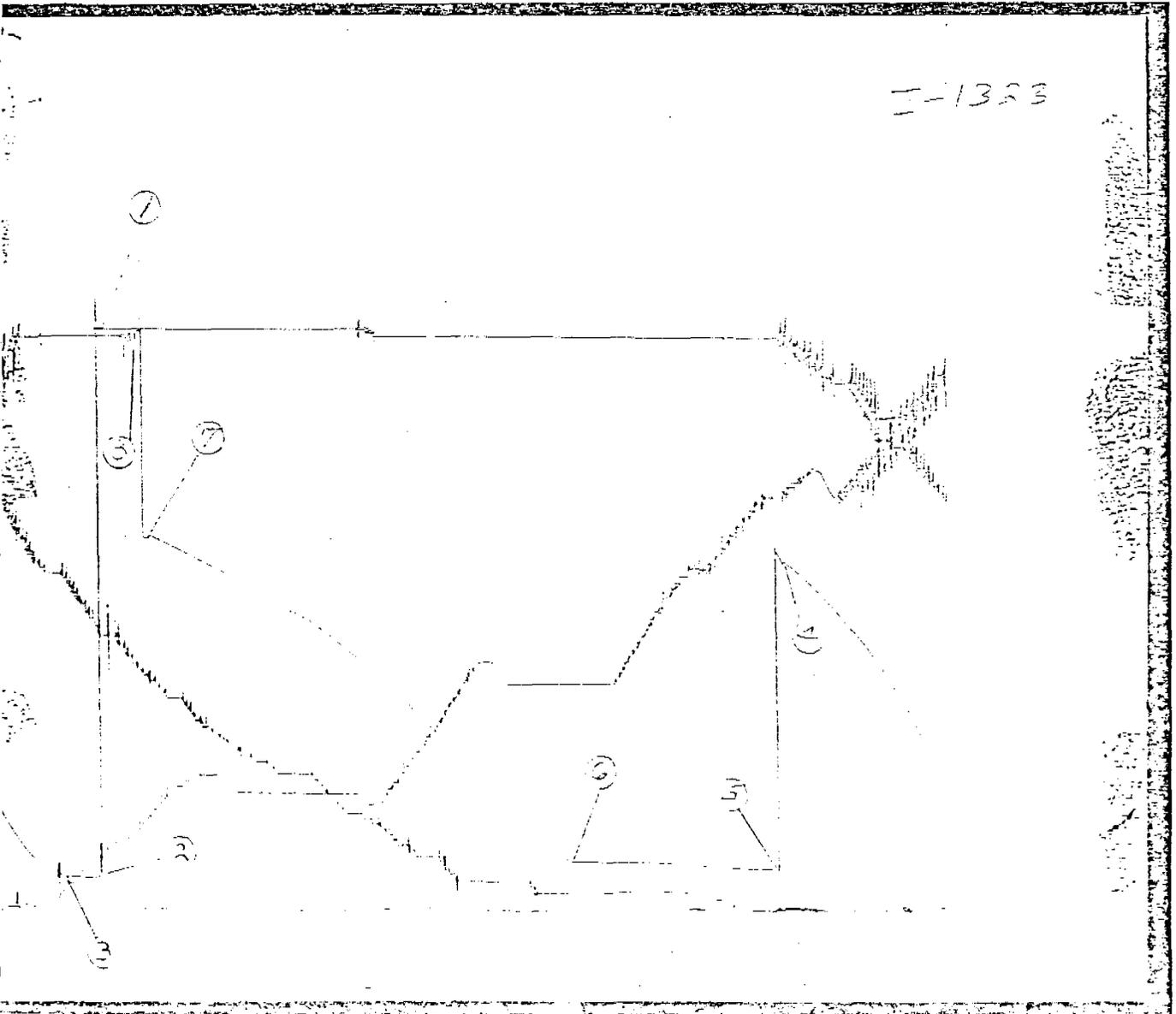
FIELD REPORT NO.: 09545 D

INSTRUMENT NO.: J-1323

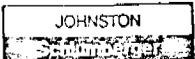
CAPACITY: 6400#

NO. OF REPORTS: 8-

PRESSURE DATA FROM THIS CHART IS PRESENTED ON NEXT PAGE



BOTTOM HOLE PRESSURE AND TIME DATA



INSTRUMENT NO.: J-1323

CAPACITY(P.S.I.): 6400

DEPTH: 9370 FT.

PORT OPENING: OUTSIDE

BOTTOM HOLE TEMP.: 328

PAGE 1 OF 2

| DESCRIPTION             | LABELED POINTS | PRESSURE (P.S.I.) | GIVEN TIME | COMPUTED TIME |
|-------------------------|----------------|-------------------|------------|---------------|
| INITIAL HYDROSTATIC MUD | 1              | 4212.4            |            |               |
| INITIAL FLOW(1)         | 2              | 220.5             |            |               |
| INITIAL FLOW(2)         | 3              | 208.4             | 10         | 11            |
| INITIAL SHUT-IN         | 4              | 2512.6            | 67         | 68            |
| FINAL FLOW(1)           | 5              | 282.0             |            |               |
| FINAL FLOW(2)           | 6              | 335.1             | 60         | 59            |
| FINAL SHUT-IN           | 7              | 2699.6            | 120        | 120           |
| FINAL HYDROSTATIC MUD   | 8              | 4195.6            |            |               |

INCREMENTAL READINGS

| LABEL POINT | DELTA TIME | PRESSURE (P.S.I.) | T + DT/DT | LOG   | PW - PF (P.S.I.) | COMMENTS        |
|-------------|------------|-------------------|-----------|-------|------------------|-----------------|
| 1           |            | 4212.4            |           |       |                  | HYDROSTATIC MUD |
| 2           | 0          | 220.5             |           |       |                  | INITIAL FLOW(1) |
|             | 5          | 207.2             |           |       |                  |                 |
|             | 10         | 207.2             |           |       |                  |                 |
| 3           | 11         | 208.4             |           |       |                  | INITIAL FLOW(2) |
| 3           | 0          | 208.4             |           |       |                  | STARTED SHUT-IN |
|             | 5          | 262.7             | 3.200     | 0.505 | 54.3             |                 |
|             | 10         | 384.5             | 2.100     | 0.322 | 176.1            |                 |
|             | 15         | 561.9             | 1.733     | 0.239 | 353.5            |                 |
|             | 20         | 792.3             | 1.550     | 0.190 | 583.9            |                 |
|             | 25         | 1054.1            | 1.440     | 0.158 | 845.7            |                 |
|             | 30         | 1324.3            | 1.367     | 0.136 | 1115.9           |                 |
|             | 35         | 1540.3            | 1.314     | 0.119 | 1331.9           |                 |
|             | 40         | 1746.6            | 1.275     | 0.106 | 1538.2           |                 |
|             | 45         | 1923.9            | 1.244     | 0.095 | 1715.5           |                 |
|             | 50         | 2075.9            | 1.220     | 0.086 | 1867.5           |                 |
|             | 55         | 2221.9            | 1.200     | 0.079 | 2013.5           |                 |
|             | 60         | 2349.8            | 1.183     | 0.073 | 2141.4           |                 |
|             | 65         | 2462.0            | 1.169     | 0.068 | 2253.6           |                 |
| 4           | 68         | 2512.6            | 1.162     | 0.065 | 2304.2           | INITIAL SHUT-IN |
| 5           | 0          | 282.0             |           |       |                  | FINAL FLOW(1)   |
|             | 5          | 282.0             |           |       |                  |                 |
|             | 10         | 282.0             |           |       |                  |                 |
|             | 15         | 288.0             |           |       |                  |                 |
|             | 20         | 292.9             |           |       |                  |                 |
|             | 25         | 298.9             |           |       |                  |                 |
|             | 30         | 303.7             |           |       |                  |                 |
|             | 35         | 309.7             |           |       |                  |                 |
|             | 40         | 314.6             |           |       |                  |                 |
|             | 45         | 320.6             |           |       |                  |                 |
|             | 50         | 325.4             |           |       |                  |                 |
|             | 55         | 330.3             |           |       |                  |                 |
| 6           | 59         | 335.1             |           |       |                  | FINAL FLOW(2)   |
| 6           | 0          | 335.1             |           |       |                  | STARTED SHUT-IN |
|             | 1          | 343.5             | 71.000    | 1.851 | 8.4              |                 |

| LABEL POINT | DELTA TIME | PRESSURE (P.S.I.) | T + DT/DT | LUG   | PW - PF (P.S.I.) | COMMENTS                         |
|-------------|------------|-------------------|-----------|-------|------------------|----------------------------------|
|             | 2          | 358.0             | 36.000    | 1.556 | 22.9             |                                  |
|             | 3          | 373.7             | 24.333    | 1.386 | 38.6             |                                  |
|             | 4          | 388.2             | 18.500    | 1.267 | 53.1             |                                  |
|             | 5          | 403.8             | 15.000    | 1.176 | 68.8             |                                  |
|             | 6          | 420.7             | 12.667    | 1.103 | 85.7             |                                  |
|             | 7          | 438.8             | 11.000    | 1.041 | 103.8            |                                  |
|             | 8          | 455.7             | 9.750     | 0.989 | 120.6            |                                  |
|             | 9          | 473.8             | 8.778     | 0.943 | 138.7            |                                  |
|             | 10         | 494.3             | 8.000     | 0.903 | 159.2            |                                  |
|             | 12         | 536.5             | 6.833     | 0.835 | 201.5            |                                  |
|             | 14         | 578.8             | 6.000     | 0.778 | 243.7            |                                  |
|             | 16         | 624.6             | 5.375     | 0.730 | 289.5            |                                  |
|             | 18         | 674.1             | 4.889     | 0.689 | 339.0            |                                  |
|             | 20         | 726.0             | 4.500     | 0.653 | 390.9            |                                  |
|             | 22         | 777.8             | 4.182     | 0.621 | 442.7            |                                  |
|             | 24         | 829.7             | 3.917     | 0.593 | 494.6            |                                  |
|             | 26         | 882.8             | 3.692     | 0.567 | 547.7            |                                  |
|             | 28         | 940.7             | 3.500     | 0.544 | 605.6            |                                  |
|             | 30         | 996.2             | 3.333     | 0.523 | 661.1            |                                  |
|             | 35         | 1141.0            | 3.000     | 0.477 | 805.9            |                                  |
|             | 40         | 1283.3            | 2.750     | 0.439 | 948.2            |                                  |
|             | 45         | 1419.6            | 2.556     | 0.407 | 1084.6           |                                  |
|             | 50         | 1549.9            | 2.400     | 0.380 | 1214.8           |                                  |
|             | 55         | 1674.2            | 2.273     | 0.357 | 1339.1           |                                  |
|             | 60         | 1792.4            | 2.167     | 0.336 | 1457.3           |                                  |
|             | 65         | 1899.8            | 2.077     | 0.317 | 1564.7           |                                  |
|             | 70         | 2005.9            | 2.000     | 0.301 | 1670.9           |                                  |
|             | 75         | 2098.8            | 1.933     | 0.286 | 1763.8           |                                  |
|             | 80         | 2168.8            | 1.875     | 0.273 | 1833.7           |                                  |
|             | 85         | 2238.8            | 1.824     | 0.261 | 1903.7           |                                  |
|             | 90         | 2310.0            | 1.778     | 0.250 | 1974.9           |                                  |
|             | 95         | 2382.3            | 1.737     | 0.240 | 2047.3           |                                  |
|             | 100        | 2452.3            | 1.700     | 0.230 | 2117.2           |                                  |
|             | 105        | 2521.1            | 1.667     | 0.222 | 2186.0           |                                  |
|             | 110        | 2587.4            | 1.636     | 0.214 | 2252.3           |                                  |
|             | 115        | 2647.7            | 1.609     | 0.206 | 2312.7           |                                  |
| 7           | 120        | 2699.6            | 1.583     | 0.200 | 2364.5           |                                  |
| 8           |            | 4195.6            |           |       |                  | FINAL SHUT-IN<br>HYDROSTATIC MUD |



JOHNSTON  
**Schlumberger**

**technical  
report**



BOTTOM HOLE PRESSURE AND TIME DATA

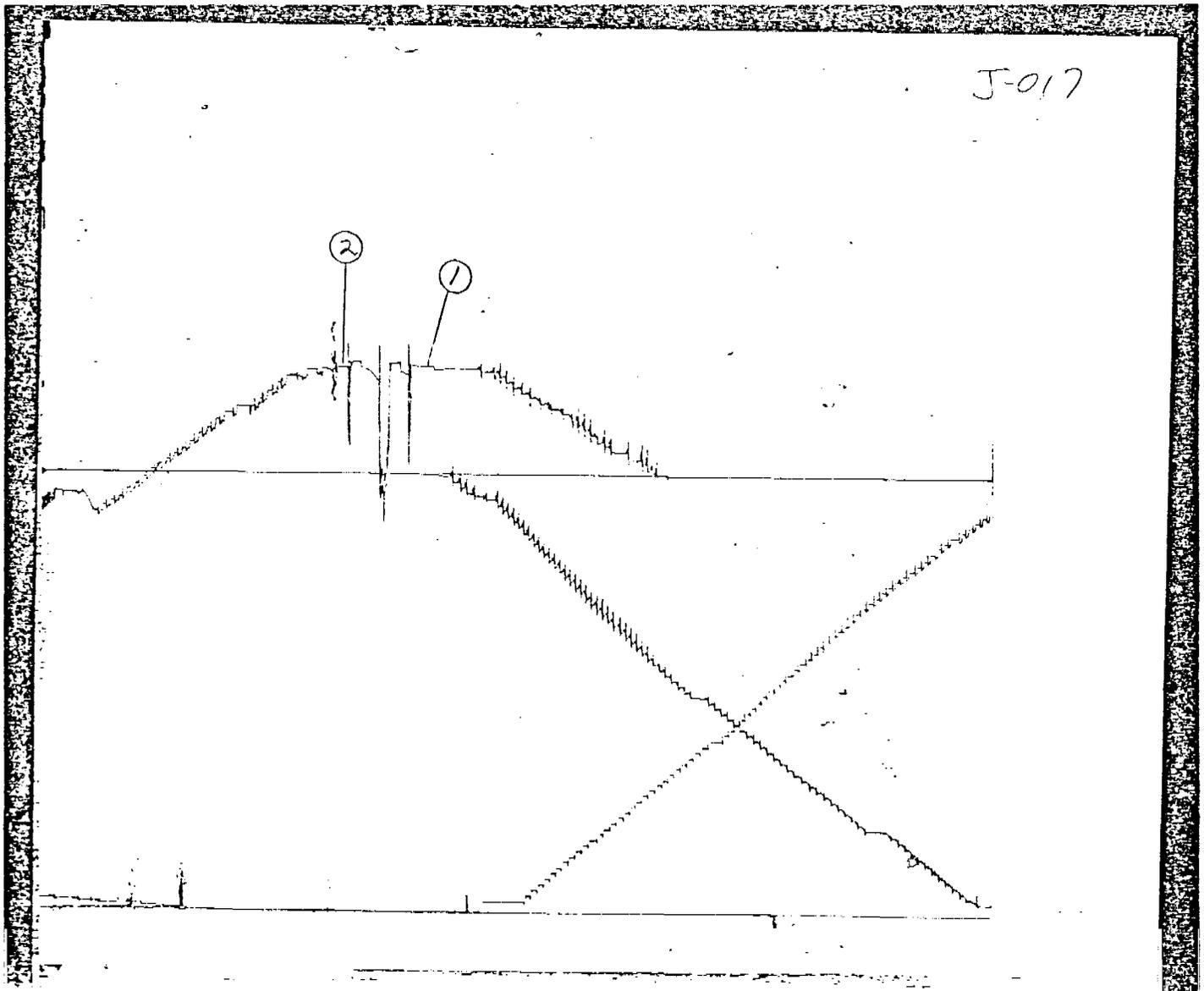
INSTRUMENT NO.: J-017      CAPACITY (P.S.I.): 6400#      DEPTH      9286 FT.

PORT OPENING:    INSIDE    BOTTOM HOLE TEMP.:      280°F.      FIELD REPORT NO. 09544 D

| DESCRIPTION             | LABELED POINTS | PRESSURE (P.S.I.) | GIVEN TIME | COMPUTED TIME |
|-------------------------|----------------|-------------------|------------|---------------|
| INITIAL HYDROSTATIC MUD | 1              | 4165.5            |            |               |
| INITIAL FLOW (1)        |                |                   |            |               |
| INITIAL FLOW (2)        |                |                   |            |               |
| INITIAL SHUT-IN         |                |                   |            |               |
| SECOND FLOW (1)         |                |                   |            |               |
| SECOND FLOW (2)         |                |                   |            |               |
| SECOND SHUT-IN          |                |                   |            |               |
| FINAL FLOW (1)          |                |                   |            |               |
| FINAL FLOW (2)          |                |                   |            |               |
| FINAL SHUT-IN           |                |                   |            |               |
| FINAL HYDROSTATIC MUD   | 2              | 4155.5            |            |               |

REMARKS: UNSUCCESSFUL TEST.

8-



P



HYDROSTATIC PRESSURE TEST - B.C.P.'s

Amoco Production Company - Indian Cove #1  
Parker - Rig #148  
November 8, 1978



by

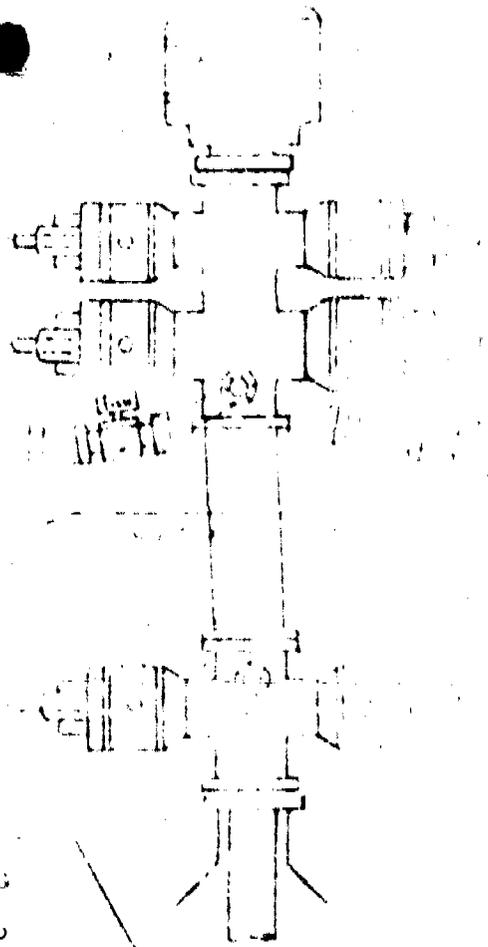
Yellow Jacket Tools and Services, Inc.

Vernal, Utah

Tested by: Brad Jackson

Ticket No. 4641

POOR COPY



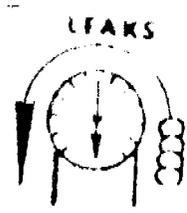
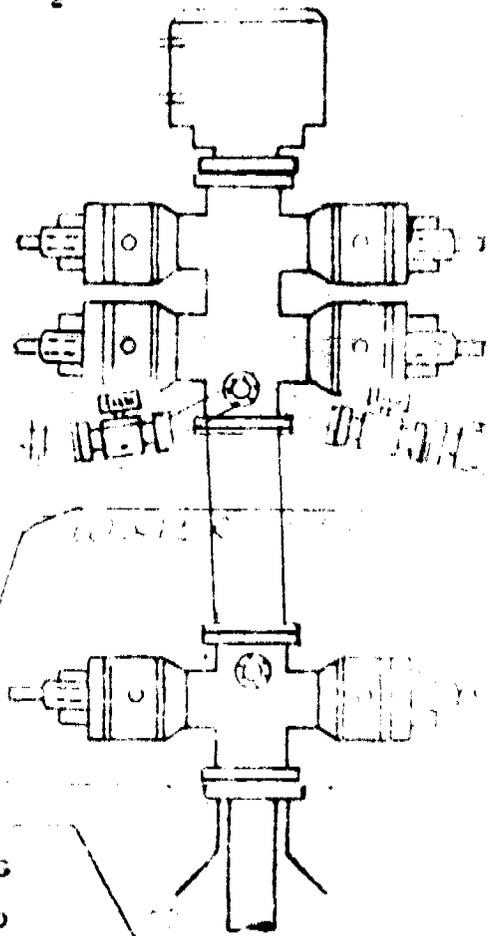
UPPER X.C.  
LOWER X.C.  
SAFETY VALVE



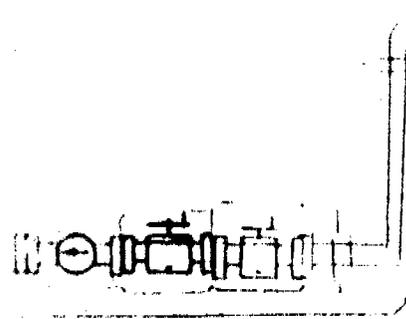
 ITEMS LEAKING  
 NO TEST DESIRED  
 ITEMS REPLACED

No visible leaks DURING testing 11-8-78

BLOWOUT CONTROL EQUIPMENT.....AMOCO PRODUCTION.....INDIAN COU...



UPPER X.C.  
LOWER X.C.  
SAFETY VALVE



 ITEMS LEAKING  
 NO TEST DESIRED  
 ITEMS REPLACED

POOR COPY

No visible leaks at CONCLUSION OF testing 11-8-78

November 13, 1978

Amoco Production Company  
501 Airport Drive  
Farmington, New Mexico 87401

RE: Hydrostatic pressure test on your Indian Cove #1, located in the  
Great Salt Lake, Utah area, in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on  
November 8, 1978.

At the conclusion of testing there were no visible leaks to the  
items tested.

There was no test desired to the casing.

A schematic of surface control equipment has been prepared with leaks and  
or malfunctions posted thereto for your consideration. Also, enclosed is  
a copy of the report taken from field notes during testing and pressure  
readings of the test.

Your comments or suggestions as to how we may better serve you will cer-  
tainly be appreciated.

Sincerely yours,

Yellow Jacket Tools & Services, Inc.

  
Jay E. Stubbs

cll/Enclosures





| Test # | Items Tested  | Pressure Pt.           | Pressure | Minutes Held | Results   |
|--------|---|------------------------|----------|--------------|---|
| 1      | Choke manifold w/ inside valves closed,<br>#  | Conn. on manifold<br># | 3,000#   | 12 min.      | Press 3000#, no visible leaks, close outside wing valves & open inside valves on manifold, repress, No visible leaks  |
| 2      | Blind rams, w/ inside valve on kill line closed @ stack & choke line & manifold w/ inside valves on manifold closed.<br># | #                      | #        | 16 min.      | Press 3000#, No visible leaks, open inside valve on kill line & close 2nd valve on kill line, repress, No visible leaks   |
| 3      | Pipe rams, w/ inside valve, on choke line closed @ stack & 3rd valve on kill line closed<br>#                             | Down drill pipe<br>#   | #        | 12 min.      | Press 3000#, No visible leaks,, open inside valve on on choke line & close 2nd valve @ stack, open 3rd valve on kill line to check valve, repress 3000#, No visible leaks |
| 4      | Hydrill w/ inside valves on choke line & kill line closed @ stack.<br>#   | #                      | 1,500#   | 14 min.      | No visible leaks<br><br>Lay down tools & set wear ring.   |
| 5      | Lower Kelly cock<br>#   |                        | 3,000#   | 14 min.      | No visible leaks  |
| 6      | Upper kelly cock<br>#   |                        | #        | 13 min.      | Press 3000#, loss of pressure, repress 3000#, No visible leaks  |
| 7      | Safety valve, hydrill type<br>#   |                        | #        | 10 min.      | No visible leaks  |

NOV 23 1978

HYDROSTATIC PRESSURE TEST - B.O.P.'s

Amoco Production Company - Indian Cove State #1  
Parker - Rig # 148  
October 27, 1978

by

Yellow Jacket Tools and Services, Inc.

Vernal, Utah

Tested by: David Cody

Ticket No. 5721

November 10, 1978

Amoco Production Company  
501 Airport Drive  
Farmington, New Mexico 87401

RE: Hydrostatic pressure test on your Indian Cove State #1, located in the Great Salt Lake, Utah area, in the Farmington, New Mexico district.

Gentlemen:

We made a hydrostatic pressure evaluation to the above referenced job on October 27, 1978.

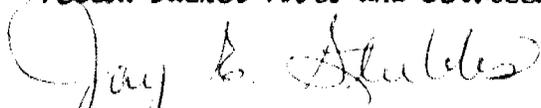
At the conclusion of testing there were leaks to the 4 1/2 FH Dart Valve.

A schematic of surface control equipment has been prepared with leaks and or malfunctions posted thereto for your consideration. Also, enclosed is a copy of the report taken from field notes during testing and pressure readings of the test.

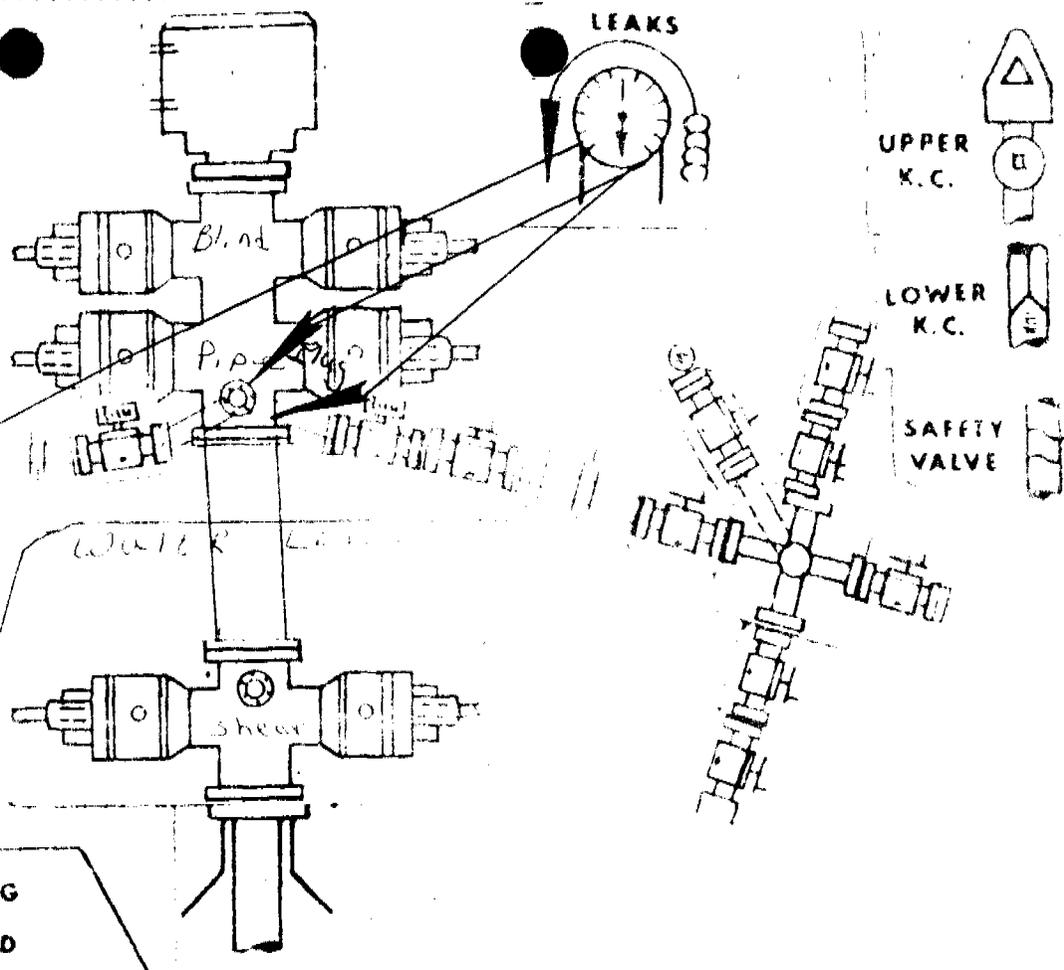
Your comments or suggestions as to how we may better serve you will certainly be appreciated.

Sincerely yours,

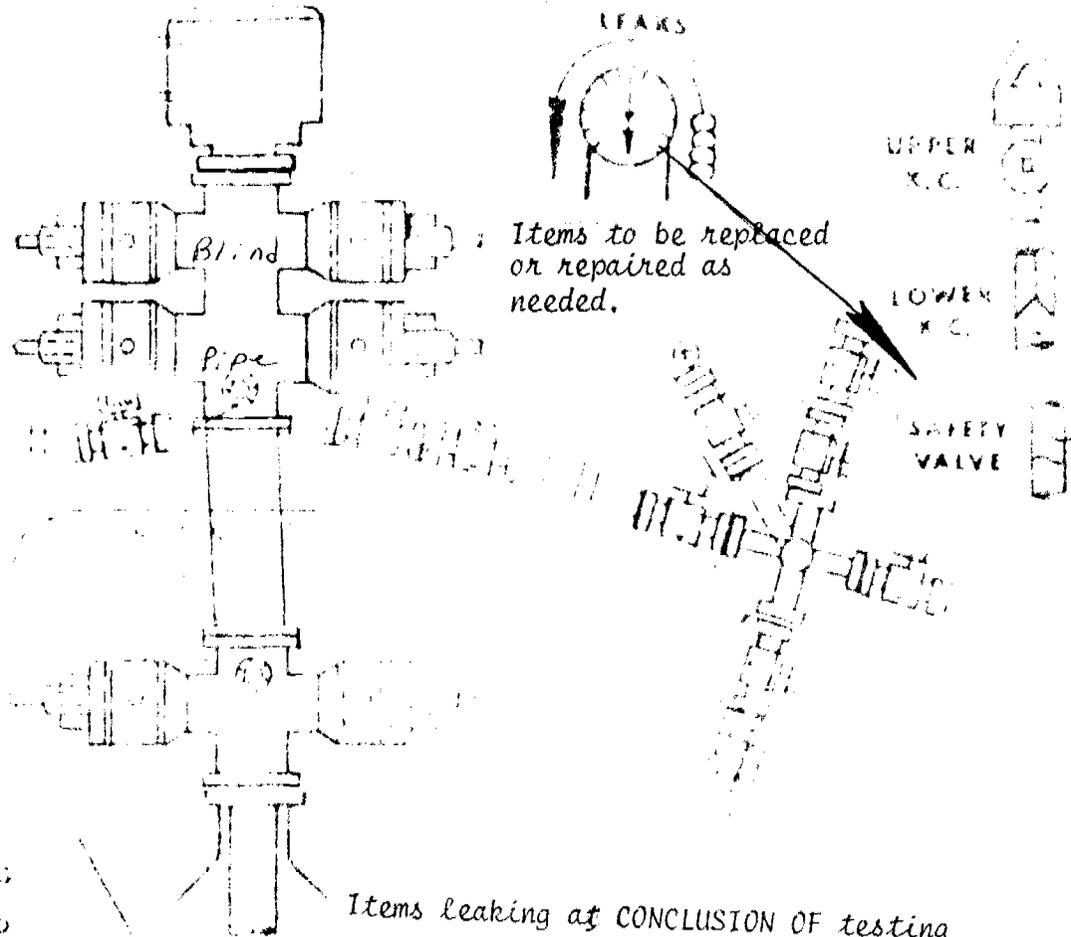
Yellow Jacket Tools and Services, Inc.

  
Jay E. Stubbs

ell/Enclosures

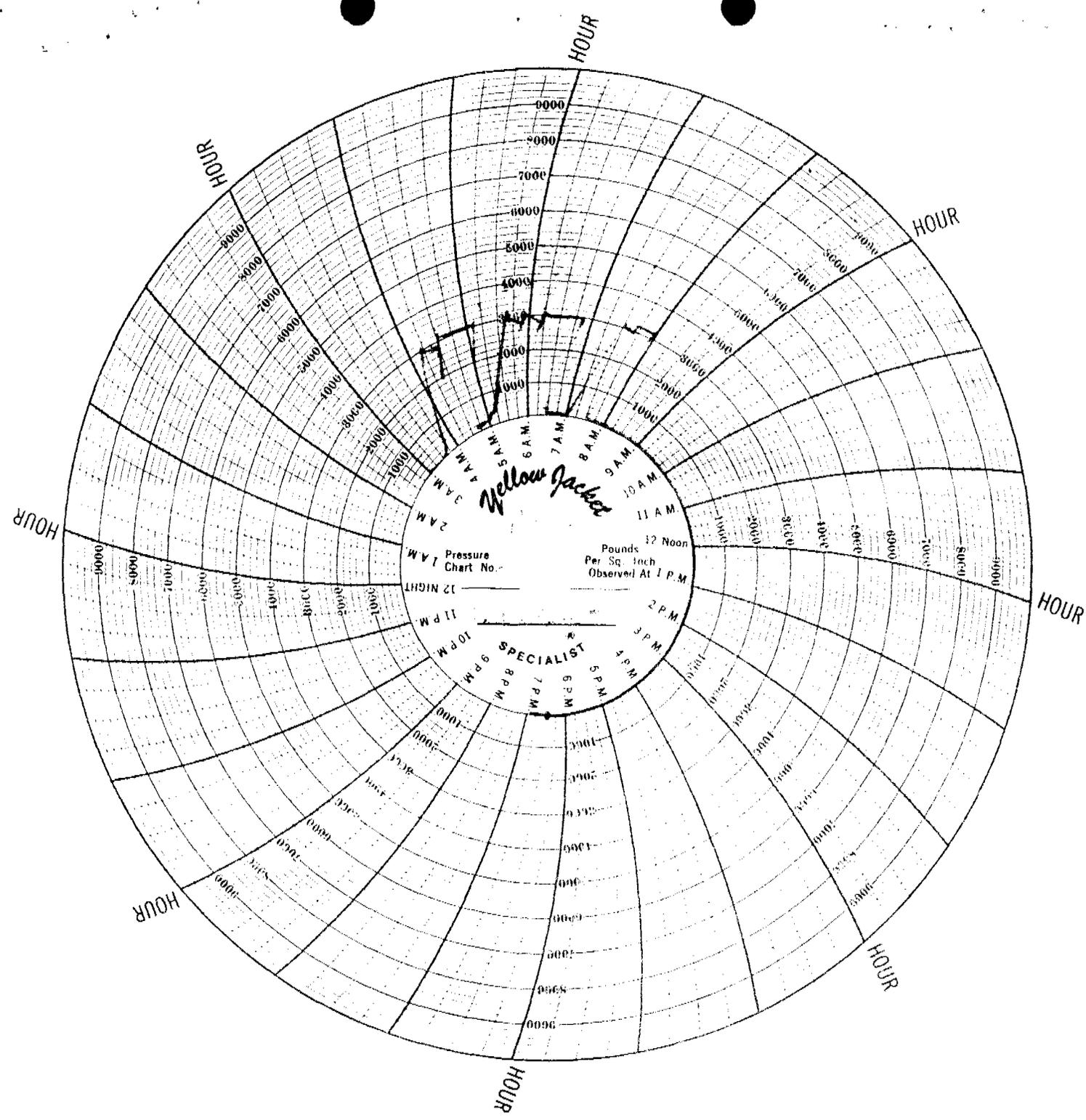


Items leaking DURING testing 10-27-78



Items to be replaced or repaired as needed.

Items leaking at CONCLUSION OF testing 10-27-78



HOUR

HOUR

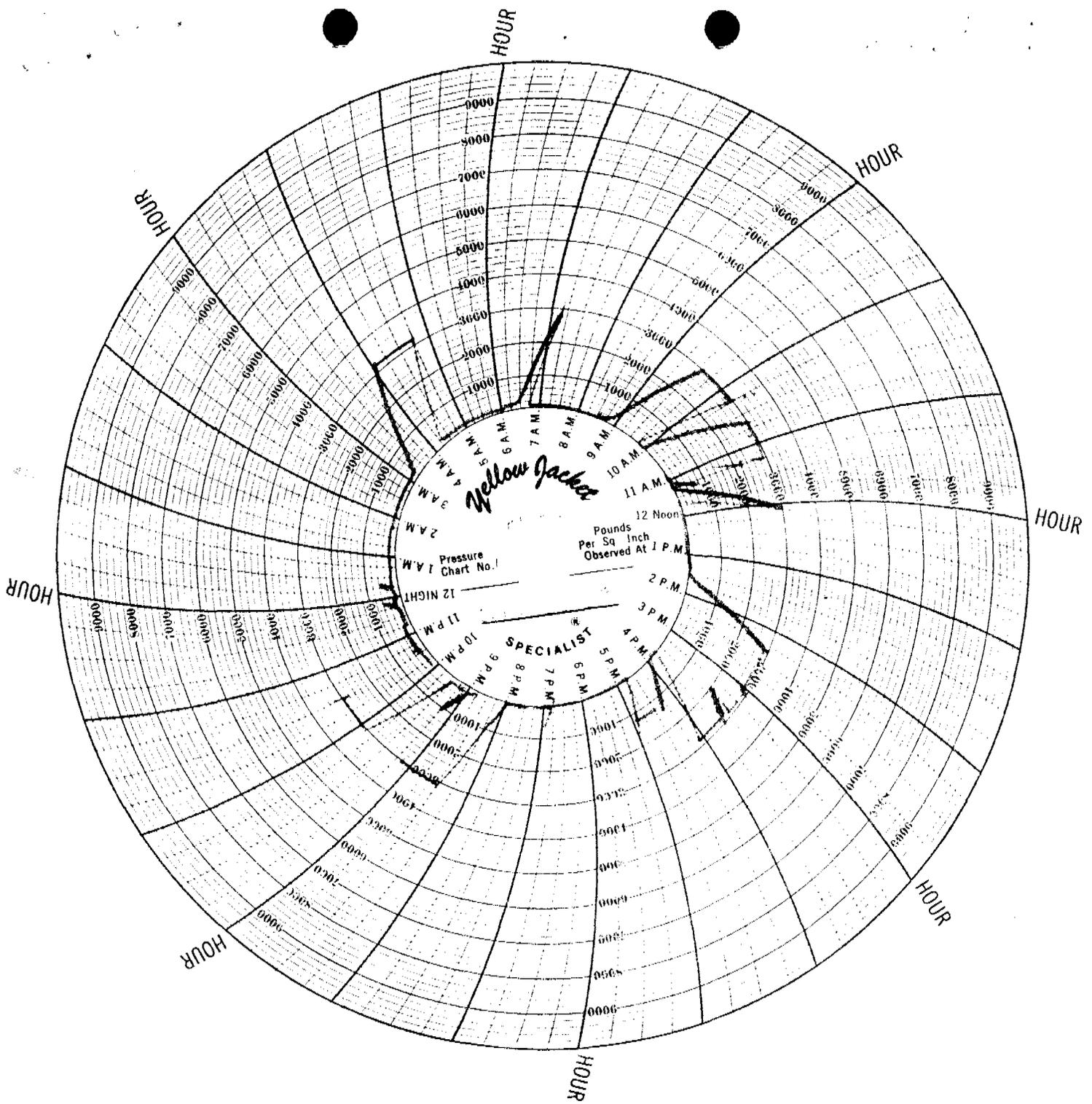
HOUR

HOUR

HOUR

HOUR

HOUR





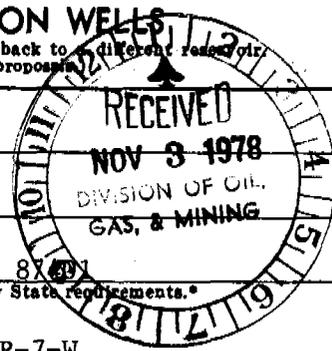
| Test # | Items Tested  | Pressure Pt.    | Pressure | Minutes Held | Results   |
|--------|---|-----------------|----------|--------------|---|
|        | Manifold cross, all outside valves off cross closed, inlet valve off cross closed.                          | Guage conn.     |          |              |   |
| 1      | #   | #               | 3,000#   | 14 min.      | No visible leaks, open inlet valve off cross.                               |
|        | Blind rams, choke line, manifold cross, all inside valves off cross closed, inside kill line valve @ stack. |                 |          |              |   |
| 2      | #   |                 | 1,000#   |              | Pressure loss, repress, leak past plug. Close inlet valve off cross.        |
| 3      | #   |                 | 3,000#   | 12 min.      | No visible leaks  |
|        | Blind rams, choke line, manifold cross, same valves off cross closed, inside kill line valve closed.        |                 |          |              |   |
| 4      | #   |                 | 600#     |              | Leak past plug, sit on plug.  |
| 5      | #   |                 | #        |              | Same, change o-ring.  |
| 6      | #   |                 | 3,000#   | 15 min.      | No visible leaks  |
|        | Pipe rams, middle kill line valve closed, inside check line valve @ stack closed.                           | Down drill pipe |          |              |   |
| 7      | #   | #               | 2,500#   |              | Leak thru connection between drill pipe & sub, tighten, with rig tongs      |
| 8      | #   | #               | 3,000#   | 14 min.      | No visible leaks, Close outside kill line valve & outside choke line valve. |
| 9      | #   | #               | #        | 7 min.       | No visible leaks, Press against check & inlet valve off cross.              |
| 10     | #   | #               |          |              | No pressure, leak thru check, close middle kill line valve & check it.      |
| 11     | #   | #               | 1,000#   |              | Leak thru, close middle kill line valve                                     |
| 12     | #   | #               | 3,000#   |              | Leak thru connection between drill pipe & sub, tighten, with tongs.         |
| 13     | #   | #               | #        | 10 min.      | No visible leaks, Close valve on tee @ guage connection, open inlet valve.  |
| 14     | #   | #               | #        | 8 min.       | Open middle kill line valve. Check the check valve one more time            |
| 15     | #   | #               | #        | 13 min.      | No visible leaks  |
|        | Hydrill, outside choke line valve @ stack closed, middle kill line valve closed                             |                 |          |              |   |
| 16     | #   |                 | 1,500#   | 12 min.      | No visible leaks  |



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

SUNDRY NOTICES AND REPORTS ON WELLS

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



5. LEASE DESIGNATION AND SERIAL NO. NL 28604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME \_\_\_\_\_

7. UNIT AGREEMENT NAME \_\_\_\_\_

8. FARM OR LEASE NAME Indian Cove State Unit

9. WELL NO. \_\_\_\_\_

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA SW/4 NE/4 Section 23, T-7-N, R-7-W

12. COUNTY OR PARISH Box Elder 13. STATE UT

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR 501 Airport Drive Farmington, New Mexico 88401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface 522' FSL x 2140' FEL, Section 23, T-7-N, R-7-W

14. PERMIT NO. \_\_\_\_\_ 15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
Lake Elevation 4199'

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 checked="" type="checkbox"/>  | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/>    |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANS <input type="checkbox"/>         | (Other) _____                                  |  |

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

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

Drilled 8-1/2" hole to TD of 12,470'. Reached TD on 10/9/78. Fish consisting of outer core bbl x bit left in hole. Due to the failure of finding commercial quantities of hydrocarbons, Amoco Production Company proposes to plug and abandon the subject well. The following action was taken after verbal approval by Mr. Pat Driscoll to Mr. J. L. Krupka by phone on 10/20/78.

- 1) Pumped cement plug 12,470' to 12,000' consisting of 120 sx Class "B" 40% SSAL, 3/4% CFRZ, 4% HR20 on 10/22/78.
- 2) Pumped cement plug 12,000 to 11,425' consisting of 150 sx Class "G" 40% silica flour, 3/4% CFRZ, 4% HR20 on 10/23/78.
- 3) Pumped cement plug 10,800' to 10,400' consisting of 120 sx cement per above on 10/23/78.
- 4) Pumped cement plug 10,000' to 9600' consisting of 120 sx per above on 10/23/78. The following procedure will complete PXA operations verbally approved by Mr. Pat Driscoll to Mr. J. L. Krupka by phone on 10/20/78 and 10/27/78:
  - 5) Run 7" casing liner 7650-9600' x cement to 8500'.
  - 6) Test zones 8960-9020', 9250-9325' and 9400-9450'. If non-commercial, squeeze perforations and proceed with abandonment.
  - 7) Set cement plug 200' above and below liner top.
  - 8) Determine 9-5/8" casing freepoint.
  - 9) Cut off 9-5/8" casing.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
DATE: Nov 3 1978  
BY: P. Driscoll

(continued on back)

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

SIGNED [Signature] TITLE Dist. Adm. Supervisor DATE 11/1/78

(This space for Federal or State office use)

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

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 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 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

(cont;d)

- 10) Set cement plug 200' above and below 9-5/8" casing stub.
- 11) Set cement plug over 13-3/8" shoe (if above 9-5/8" stub) 200' above and below.
- 12) Set cement plug 100-200' in 13-3/8" casing.
- 13) Set cement retainer and cut off 13-3/8" casing.
- 14) Cut off 20" and 30" at 90'.
- 15) Set cement plug to mud line.

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

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

|   |  |   |
|---|--|---|
| <p align="center"><b>SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p align="center"><small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small></p> |  | <p>5. LEASE DESIGNATION AND SERIAL NO.<br/><b>NL 28604</b></p>  |
| <p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Wildcat</b></p>  |  | <p>6. IF INDIAN, ALLOTTER OR TRIBE NAME</p>   |
| <p>2. NAME OF OPERATOR<br/><b>AMOCO PRODUCTION COMPANY</b></p>  |  | <p>7. UNIT AGREEMENT NAME</p>   |
| <p>3. ADDRESS OF OPERATOR<br/><b>501 Airport Drive Farmington, NM 87401</b></p>   |  | <p>8. FARM OR LEASE NAME<br/><b>Indian Cove State Unit</b></p>  |
| <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)<br/>At surface<br/><b>522' FSL x 2140' PKL, Section 23, T-7-N, R-7-W</b></p>  |  | <p>9. WELL NO.<br/><b>1</b></p>   |
| <p>14. PERMIT NO.</p>   |  | <p>10. FIELD AND POOL, OR WILDCAT<br/><b>Wildcat</b></p>  |
| <p>15. ELEVATIONS (Show whether SF, RT, OR, etc.)<br/><b>Lake Elevation 4199'</b></p>   |  | <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br/><b>SW/4 NE/4 Section 23, T-7-N, R-7-W</b></p> |
| <p>16. PERMIT NO.</p>   |  | <p>12. COUNTY OR PARISH <b>Box Elder</b> 13. STATE <b>UT</b></p>                                      |

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

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

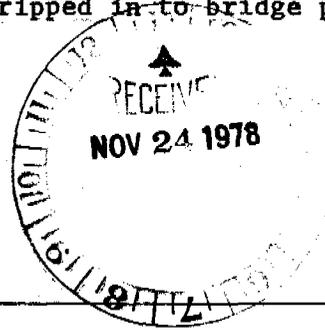
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

Amoco Production Company plugged and abandoned well as follows:

Pumped cement plug 12440-12000'; 120 sx Class "G" 40% SSAL. Set cement plug 12000-11425'. 150 sx Class "G" 40% Silica flour; Set cement plug 10800-10400'; 125 sx Class "G" 40% Silica flour; set cement plug 10000-9600'; 120 sx Class "G" 40% Silica flour. Tripped in hole did not tag cement at 9600'. Pumped 275 sx cement at 9928'. Full returns. Waited 24 hours and tagged cement at 9571'. Ran 47 joint 7", 26# casing liner 9624-7555'. Cemented with 550 sx Class "G" cement 40% Silica flour. Full returns. Cut 9-5/8" casing at 3720'. Recovered 3720'. Tripped in; spotted 50 sx cement plug 9511-9180'. Set cement retainer in 7" casing and squeezed perf 8960'-9020' with 100 sx Class "G" 40% Silica flour. Pulled out of retainer; spotted 150 sx 7832-6900'; 1000 sx plug set at 3948-2500'. Ran bridge plug. Set at 277'. Cut 13-3/8" casing 68'. Cut 20" casing at 68'. Recut 13-3/8" and 20" at 64' and recovered 13-3/8" and 20". Tripped in to bridge plug and spotted 300 sx from 277' to mud line.

Rig released on 11/16/78.



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

SIGNED E. E. SVOBODA TITLE Dist. Adm. Supervisor DATE 11/21/78

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

I. DANIEL STEWART  
Chairman

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

February 15, 1979

Amoco Production Company  
501 Airport Drive  
Farmington, New Mexico 86401

Re: WELL NO. INDEAN COVE STATE UNIT #1  
Sec. 23, T. 7N, R. 7W,  
Box Elder County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

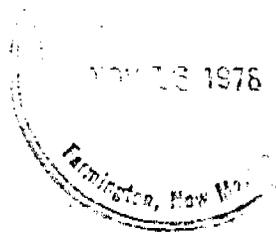
Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Kathy Ostler*

KATHY OSTLER  
RECORDS CLERK

COMPANY AMOCO PRODUCTION \_\_\_\_\_ WELL INDIAN COVE STATE #1 TEST NO. 4 COUNTY BOX ELDER STATE UTAH  
COMPANY



JOHNSTON  
**Schlumberger**

**technical  
report**

**SURFACE INFORMATION**

| Description (Rate of Flow) | Time | Pressure (P.S.I.G.) | Surface Choke |
|----------------------------|------|---------------------|---------------|
| Opened Tool                | 0911 | -                   | 1/8"          |
| 1/8" INTERMITTENT BLOW     |      |                     |               |
| BLOW OFF BOTTOM OF BUCKET  | 0915 | -                   | "             |
| BLOW, 9" IN WATER          |      |                     |               |
| CLOSED FOR INITIAL SHUT-IN | 0917 | -                   | "             |
| FINISHED SHUT-IN           | 1017 | -                   | "             |
| RE-OPENED TOOL             | 1018 | -                   | "             |
| BLOW, 1/8" IN WATER        |      |                     |               |
| BLOW, 1 1/2" IN WATER      | 1026 | -                   | "             |
| BLOW, 3 1/2" IN WATER      | 1027 | -                   | "             |
| BLOW, 5" IN WATER          | 1028 | -                   | "             |
| BLOW, 7" IN WATER          | 1030 | -                   | "             |
| BLOW, 8" IN WATER          | 1031 | -                   | "             |
| BLOW OFF BOTTOM OF BUCKET, | 1033 | -                   | "             |
| BLOW, 9" IN WATER          |      |                     |               |
| BLOW, 8" IN WATER          | 1057 | -                   | "             |
| BLOW, 7" IN WATER          | 1100 | -                   | "             |
| BLOW, 6 1/2" IN WATER      | 1103 | -                   | "             |
| BLOW, 4" IN WATER          | 1112 | -                   | "             |
| BLOW, 3" IN WATER          | 1113 | -                   | "             |
| CLOSED FOR FINAL SHUT-IN   | 1118 | -                   | "             |
| FINISHED SHUT-IN           | 1318 | -                   | "             |
| PULLED PACKER LOOSE        | 1319 | -                   | -             |

**EQUIPMENT & HOLE DATA**

|                          |                         |                 |
|--------------------------|-------------------------|-----------------|
| Type Test                | M.F.E. CASING           |                 |
| Formation Tested         | -                       |                 |
| Elevation                | 4223 K.B.               | Ft.             |
| Net Productive Interval  | 60                      | Ft.             |
| Estimated Porosity       | 4                       | %               |
| All Depths Measured From | KELLY BUSHING           |                 |
| Total Depth              | 9560; 9100 PLUGGED BACK | Ft.             |
| Main Hole/Casing Size    | 9 5/8"                  |                 |
| Rat Hole/Liner Size      | 7" X 26#                |                 |
| Drill Collar Length      | 190'                    | I.D. 2"         |
| Drill Pipe Length        | 1980'; -                | I.D. 2.8"; 3.8" |
| Packer Depth(s)          | -                       | Ft.             |

**MULTI-FLOW EVALUATOR  
FLUID SAMPLE DATA**

|                       |      |                     |
|-----------------------|------|---------------------|
| Sampler Pressure      | 1    | P.S.I.G. at Surface |
| Recovery: Cu. Ft. Gas | -    |                     |
| cc. Oil               | -    |                     |
| cc. Water             | -    |                     |
| cc. Mud               | 2000 |                     |
| Tot. Liquid cc.       | 2000 |                     |
| Gravity               | -    | *API @ - *F.        |
| Gas/Oil Ratio         | -    | cu. ft./bbl.        |

**RESISTIVITY CHLORIDE CONTENT**

|                         |          |     |         |     |
|-------------------------|----------|-----|---------|-----|
| Recovery Water          | - @ -    | *F. | -       | ppm |
| Recovery Mud            | .08 @ 60 | *F. |         |     |
| Recovery Mud Filtrate   | - @ -    | *F. | 117,000 | ppm |
| Mud Pit Sample          | .09 @ 50 | *F. |         |     |
| Mud Pit Sample Filtrate | - @ -    | *F. | 118,000 | ppm |

**MUD DATA**

|                  |                        |                 |           |
|------------------|------------------------|-----------------|-----------|
| Mud Type         | CALCIUM CHLORIDE WATER | Wt.             | 9.0       |
| Viscosity        | -                      | Water Loss      | -         |
| Resist. of Mud   | .09 @ 50               | *F. of Filtrate | - @ - *F. |
| Chloride Content | 118,000                |                 | PPM       |

| RECOVERY DESCRIPTION | FEET | BARRELS | % OIL | % WATER | % OTHERS | API GRAVITY | RESISTIVITY  | CHL. PPM |
|----------------------|------|---------|-------|---------|----------|-------------|--------------|----------|
| MUD                  | 1245 | 8.55    |       |         |          | @ *F.       | @ *F.        |          |
| TOP SAMPLE           |      |         |       |         |          | @ *F.       | .10 @ 58 *F. | 96,400   |
| MIDDLE SAMPLE        |      |         |       |         |          | @ *F.       | .09 @ 58 *F. | 100,000  |
| BOTTOM SAMPLE        |      |         |       |         |          | @ *F.       | .09 @ 59 *F. | 111,000  |
|                      |      |         |       |         |          | @ *F.       | @ *F.        |          |
|                      |      |         |       |         |          | @ *F.       | @ *F.        |          |
|                      |      |         |       |         |          | @ *F.       | @ *F.        |          |

Remarks: UNSUCCESSFUL TEST; HAD COMMUNICATIONS DURING THE TEST. MUD LOSS DURING TEST. INITIAL FLOW 2 FEET PER HOUR. REMAINDER OF TEST 20 FEET PER HOUR.

Address: 501 AIRPORT DRIVE; FARMINGTON, NEW MEXICO 87401

Company: AMOCO PRODUCTION COMPANY  
 Well: INDIAN COVE STATE #1  
 Test Interval: 8960' TO 9020' (UNSUCCESSFUL)  
 Location: SEC. 23 - T7N - R7E  
 Test #: 4  
 Date: 11-6-78  
 Field: WILD CAT  
 County: BOX ELDER State: UTAH  
 Technician: SIMPER (ROCK SPRINGS) Test Approved By: MR. JIM MC MASTER  
 Field Report No.: 09547 D  
 No. Reports Requested: 8 (3X)

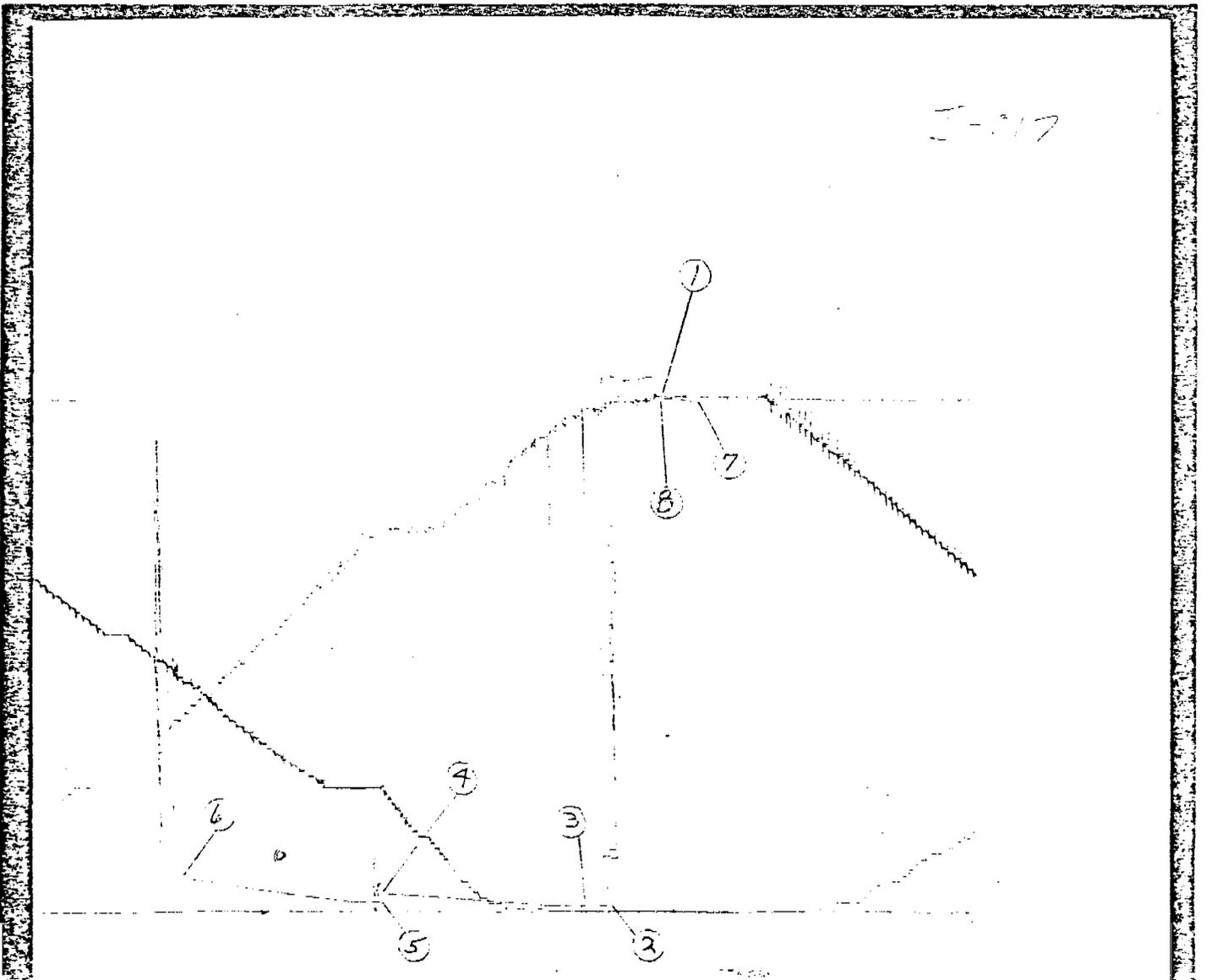
FIELD REPORT NO.: 09547 D

INSTRUMENT NO.: J-017

CAPACITY: 6400#

NO. OF REPORTS: 8-

PRESSURE DATA FROM THIS CHART IS PRESENTED ON NEXT PAGE



BOTTOM HOLE PRESSURE AND TIME DATA



INSTRUMENT NO.: J-017      CAPACITY(P.S.I.): 6400      DEPTH: 8865 FT.  
 PORT OPENING: INSIDE      BOTTOM HOLE TEMP.: 315      PAGE 1 OF 2

| DESCRIPTION             | LABELED POINTS | PRESSURE (P.S.I.) | GIVEN TIME | COMPUTED TIME |
|-------------------------|----------------|-------------------|------------|---------------|
| INITIAL HYDROSTATIC MUD | 1              | 3932.9            |            |               |
| INITIAL FLOW(1)         | 2              | 71.0              |            |               |
| INITIAL FLOW(2)         | 3              | 66.1              | 6          | 7             |
| INITIAL SHUT-IN         | 4              | 158.8             | 60         | 58            |
| FINAL FLOW(1)           | 5              | 94.5              |            |               |
| FINAL FLOW(2)           | 6              | 286.2             | 60         | 58            |
| FINAL SHUT-IN           | 7              | 3915.6            | 120        | 123           |
| FINAL HYDROSTATIC MUD   | 8              | 3915.6            |            |               |

UNSUCCESSFUL TEST: THE FINAL SHUT-IN IS NOT CONSIDERED A RELIABLE RESERVOIR VALUE.

INCREMENTAL READINGS

| LABEL POINT | DELTA TIME | PRESSURE (P.S.I.) | T + DT/DT | LOG   | PW - PF (P.S.I.) | COMMENTS        |
|-------------|------------|-------------------|-----------|-------|------------------|-----------------|
| 1           |            | 3932.9            |           |       |                  |                 |
| 2           | 0          | 71.0              |           |       |                  | HYDROSTATIC MUD |
|             | 5          | 66.1              |           |       |                  | INITIAL FLOW(1) |
| 3           | 7          | 66.1              |           |       |                  | INITIAL FLOW(2) |
| 3           | 0          | 66.1              |           |       |                  | STARTED SHUT-IN |
|             | 5          | 63.6              | 2.400     | 0.380 | -2.5             |                 |
|             | 10         | 68.5              | 1.700     | 0.230 | 2.5              |                 |
|             | 15         | 80.9              | 1.467     | 0.166 | 14.8             |                 |
|             | 20         | 90.8              | 1.350     | 0.130 | 24.7             |                 |
|             | 25         | 101.9             | 1.280     | 0.107 | 35.9             |                 |
|             | 30         | 110.6             | 1.233     | 0.091 | 44.5             |                 |
|             | 35         | 118.0             | 1.200     | 0.079 | 51.9             |                 |
|             | 40         | 126.7             | 1.175     | 0.070 | 60.6             |                 |
|             | 45         | 135.3             | 1.156     | 0.063 | 69.2             |                 |
|             | 50         | 144.0             | 1.140     | 0.057 | 77.9             |                 |
|             | 55         | 152.6             | 1.127     | 0.052 | 86.6             |                 |
| 4           | 59         | 158.8             | 1.121     | 0.049 | 92.7             | INITIAL SHUT-IN |
| 5           | 0          | 94.5              |           |       |                  | FINAL FLOW(1)   |
|             | 5          | 94.5              |           |       |                  |                 |
|             | 10         | 100.7             |           |       |                  |                 |
|             | 15         | 118.0             |           |       |                  |                 |
|             | 20         | 135.3             |           |       |                  |                 |
|             | 25         | 155.1             |           |       |                  |                 |
|             | 30         | 172.4             |           |       |                  |                 |
|             | 35         | 192.2             |           |       |                  |                 |
|             | 40         | 213.2             |           |       |                  |                 |
|             | 45         | 234.2             |           |       |                  |                 |
|             | 50         | 255.3             |           |       |                  |                 |
|             | 55         | 275.1             |           |       |                  |                 |
| 6           | 58         | 286.2             |           |       |                  | FINAL FLOW(2)   |
| 6           | 0          | 286.2             |           |       |                  | STARTED SHUT-IN |
| 7           | 123        | 3915.6            | 1.528     | 0.184 | 3629.4           | FINAL SHUT-IN   |

| LABEL POINT | DELTA TIME | PRESSURE (P.S.I.) | T + DT/DT | LOG | PW - PF (P.S.I.) | COMMENTS        |
|-------------|------------|-------------------|-----------|-----|------------------|-----------------|
| 8           |            | 3915.6            |           |     |                  | HYDROSTATIC MUD |

TIGHT HOLE - DO NOT RELEASE

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

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

2. NAME OF OPERATOR Amoco Production Company

3. ADDRESS OF OPERATOR 1521 East 39th South Salt Lake City, Utah 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*
At surface SW/4 NE/4 Section 23, 552' FSL 2140' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-003-30002 DATE ISSUED 12/9/77

5. LEASE DESIGNATION AND SERIAL NO. NL-28604
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Indian Cove State Unit
9. WELL NO. 1 (I-#1)
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 23-T7N-R7W

15. DATE SPUDDED 6/28/78 16. DATE T.D. REACHED 10/11/78 17. DATE COMPL. (Ready to prod.) 11/16/78 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4199' Lake Elevation 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 12470 21. PLUG, BACK T.D., MD & TVD Surface 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY To TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN N/A Well was plugged and abandoned

HRT, HDT, FDC-CNL/GR, BHC/GR, IGS-CST, Neutron DIL-GR Yes

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Rows include 30", 20", 13 3/8", 9 5/8" casing sizes.

Table with 8 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT\*, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD). Includes LINER RECORD and TUBING RECORD.

Table with 2 columns: PERFORATION RECORD (Interval, size and number) and ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Includes intervals like 9400' - 9450' and 8960' - 9020'.

Table with 8 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF., WATER-BBL., GAS-OIL RATIO.

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

35. LIST OF ATTACHMENTS N/A Well was plugged X Abandoned

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

SIGNED [Signature] TITLEDistrict Adm. Supervisor DATE 3/12/79

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

# INSTRUCTIONS

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

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

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

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

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| 37. SUMMARY OF POROUS ZONES:<br>SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES |                 | 38. GEOLOGIC MARKERS   |  |
|--|-----------------|--|--|
| FORMATION  | TOP             | BOTTOM   | DESCRIPTION, CONTENTS, ETC.                |
|  | 9255'           | 9571'  | DST #1: Unsuccessful, Packer Seat failure  |
|  | 9400'           | 9450'  | DST #2: IO-1/8" in water FO-1/2" in water  |
|  | 9250'           | 9350'  | DST #3: IO-1/8" Blow in water FO- No Blow  |
|  | 8960'           | 9020'  | DST #4: Unsuccessful, due to Communication |
| Shale  | 5712'           | 5742'  | Core #1: Cut 30' Rec 30'                   |
|  | 8521'           | 8551'  | Core #2: Cut 30' Rec 30'                   |
|  | 10482'          | 10488'   | Core #3: Cut 6' Rec 4'                     |
|  | 10488'          | 10496'   | Core #4: Cut 8' Rec 7'                     |
|  | PLUGGING RECORD |  |  |
| Set 120  | Sx Cl "G"       | Cement   | w/40% Silica Flour, 3/4% CFR <sub>2</sub>  |
| Set 150  | Sx Cl "G"       | Cement   | w/40% Silica Flour, 3/4% CFR <sub>2</sub>  |
| Set 120  | Sx Cl "G"       | Cement   | w/40% Silica Flour, 3/4% CFR <sub>2</sub>  |
| Set 120  | Sx Cl "G"       | Cement   | w/40% Silica Flour, 3/4% CFR <sub>2</sub>  |
| Set 275  | Sx Cl "G"       | Cement   | w/40% Silica Flour, 3/4% CFR <sub>2</sub>  |
| Set 50   | Sx Cl "G"       | Cement Plug  |  |
| Set 150  | Sx Cl "G"       | Cement Plug  |  |
| Set 1000   | Sx Cl "G"       | Cement Plug  |  |
| Set 300  | Sx Cl "G"       | Cement with 2% Cl <sub>2</sub> on Bridge Plug @277' to Mud-line. |  |
|  |                 |  | 12440' - 120000'                           |
|  |                 |  | 12000' - 11425'                            |
|  |                 |  | 10800' - 10400'                            |
|  |                 |  | 10000' - 9600'                             |
|  |                 |  | 9928' - 9571'                              |
|  |                 |  | 9511' - 9180'                              |
|  |                 |  | 7832' - 6900'                              |
|  |                 |  | 3948' - 2500'                              |



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

August 6, 1979

OIL, GAS, AND MINING BOARD

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EDWARD T. BECK  
E. STEELE McINTYRE

Amoco Production Company  
P. O. Box 17675  
Salt Lake City, Utah 84117

Re: Well No. Indian Cove State Un. #1  
(State "I" #1)  
Sec. 23, T. 7N, R. 7E  
Box Elder County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office 3-12-79, from above referred to well, indicates the following electric logs were run: HRT, HDT, FDC-CNL/GR, BHC/GR, ICS-CST, Neutron, DIL-GR. To date, the only logs we have received are the Gamma Ray and Hydrocarbon Analysis.

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

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Kathy Avila*  
KATHY AVILA  
RECORDS CLERK

COMPANY: Amoco UT ACCOUNT # \_\_\_\_\_ SUSPENSE DATE: 4-15-87

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: MARITA

CONTACT TELEPHONE NO.: 1-307-789-1700 (EVANSTON)

SUBJECT: Completed 6-16-79 Indian Creek St tract  
STATE OF UTAH "I" #

Need logs: HRT, HDT, FDC-CNL/GR 43003 30002

BHC/GR, ICS-GST, NEUTRON DIL/GR 7N 7W 23

Box ELDER Co

need mud log, GR + Hydrocarbon Analysis  
(Use attachments if necessary)

RESULTS: WILL SEND LOGS

(Use attachments if necessary)

CONTACTED BY: V

DATE: 4-1-87

COMPANY: Amoco

UT ACCOUNT # \_\_\_\_\_

SUSPENSE DATE: 4-15-87

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: MARITA

CONTACT TELEPHONE NO.: 1-307-789-1700 (EVANSTON)

SUBJECT: Completed 6-16-79

Need logs: HRT, HDT, FDC-CNL/GR  
BHC/GR, ICS-GST, NEUTRON DIL/GR

Indian Creek Unit  
STATE OF UTAH "I"  
43003 30002  
7N 7W 23  
Box Elder Co

need mud log, GR + Hydrocarbon Analysis  
(Use attachments if necessary)

RESULTS: WILL SEND LOGS

3-26-87

Norm-

PI HAS REQUESTED THESE LOGS FROM

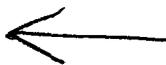
ADA.

SINCE THEY WERE

RUN ABT MAR 1979

CAN WE STILL REQUEST THEM?

ADA HAS DOUBLE CHECKED ARCHIVES AND STATES WE DO NOT HAVE THEM.



Norm, P. m

be worth a try!!  
Good luck!!  
RJK.

ON THIS ONE.

JMX, Norm  
3-30