

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FI WATER SANDS LOCATION INSPECTED

SUB REPORT/abd

910401 Ops. from Exxon to Union Pacific Resources eff. 12-17-90.
Commenced Injection Eff 8-27-92

DATE FILED 5/7/90

LAND FEE & PATENTED STATE LEASE NO

PUBLIC LEASE NO

INDIAN

DRILLING APPROVED: 6/28/90

SPUDDED IN: 7-6-90

COMPLETED: 4-30-92 WDW PUT TO PRODUCING

INITIAL PRODUCTION:

GRAVITY API:

GOR

PRODUCING ZONES 9830-10146' (NGSD)

TOTAL DEPTH 12109'

WELL ELEVATION 10730 KB

DATE ABANDONED:

FIELD: WILDCAT

UNIT

COUNTY: SUMMIT

WELL NO B.A. BINGHAM & SONS, INC #1

API NO. 43-043-32095 30295

LOCATION 1205 FNL

FT FROM (N) (S) LINE. 888 FWL

FT. FROM (E) (W) LINE

NWNW

1/4 - 1/4 SEC. 2

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
2N	7E	2	Union Pacific Resources Co.				
			EXXON CORPORATION				

2N

7E

2

~~EXXON CORPORATION~~

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

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.
Fee

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

B. A. Bingham & Sons, Inc.

9. Well No.

1

10. Field and Pool, or Wildcat

Wildcat (001)

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

Sec. 2, T2N, R7E

12. County or Parrish 13. State
Summitt, Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Exxon Corporation Attn: Stephen Johnson (912) 888-7548

3. Address of Operator

P. O. Box 1600, Midland, TX 79702

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

At surface

1205' FNL & 888' FWL of Sec. NWNW

At proposed prod. zone

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

16 mi. W to Coalville

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

888' to Lease Line
171 to Drlg Unit

16. No. of acres in lease

158.49

17. No. of acres assigned to this well

40

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

None

19. Proposed depth

13,500 Nuggett Sandstone

20. Rotary or cable tools

Rotary

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

6713' GR

22. Approx. date work will start*

6-1-90

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
20"	16"	Line Pipe	60'	32 FT ³
14-3/4"	10-3/4"	45.5	2000'	1115 FT ³
9-1/2"	7"	23,26,35,32	12700'	980 FT ³

DRILLING/BOP PROGRAM ATTACHED.

TECHNICAL REVIEW

Engr. JRB
Geol. DJ CK
Surface [Signature]

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. Charlotte Harper

Signed.....

Title. Permits Supervisor

Date 5-3-90

(This space for Federal or State office use)

Permit No. 43-043-30095

Approval Date APPROVED BY THE STATE

OF UTAH DIVISION OF OIL, GAS, AND MINING

Approved by.....

Title.....

Conditions of approval, if any:

DATE 6-28-90

BY John R. Bera

*See Instructions On Reverse Side

WELL SPACING: R/L 5-3-3

WILLIAM H. SMITH & ASSOCIATES P.C.

SURVEYING CONSULTANTS

POST OFFICE BOX 820
GREEN RIVER, WYOMING 82935

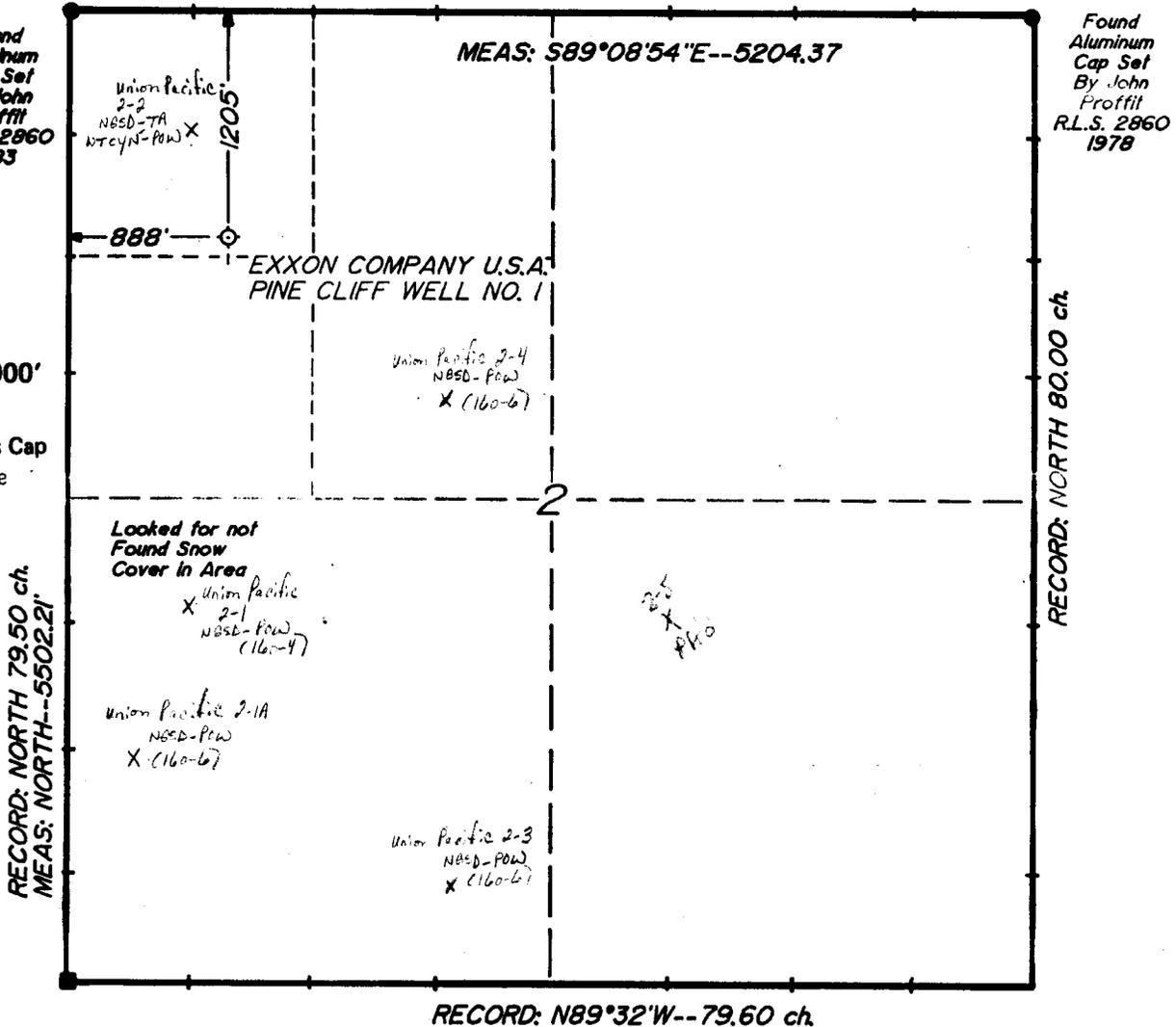
T 2 N R 7 E
RECORD: WEST, 80.00 ch.

550 EAST 2 NORTH
PHONE 307-875-3638



SCALE: 1" = 1000'

- Found Brass Cap
- Found Stone



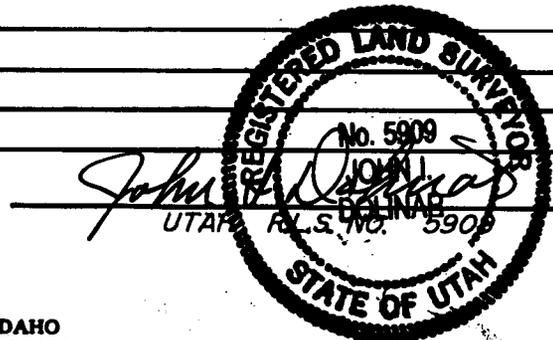
I, JOHN L. DOLINAR of Green River, Wyoming hereby certify that in accordance with a request from BILL McCABE of DENVER, COLORADO for EXXON COMPANY U.S.A. made a survey on the 13 day of MARCH 19 90 for location and elevation of the B.A. Bingham & Sons, Inc. #1

As shown on the above map, the wellsite is in the NW/4 of the NW/4 of Section 2, Township 2 NORTH, Range 7 EAST of the SALT LAKE BASE & MERIDIAN, SUMMIT County, State of UTAH Elevation is 6712.8 feet

UNGRADED GROUND Datum BASED ON U.S.G.S. BM X 161

Reference Point _____
 Reference Point _____
 Reference Point _____
 Reference Point _____

Job No. 90029.000
DATE: 3/21/90
Drawn By: TAN



REGISTERED
WYOMING UTAH IDAHO
NEVADA NEW MEXICO ARIZONA
COLORADO

Well No. 1

EXXON CORPORATION - B.A. BINGHAM and SONS, INC. NO.
 Section 2, T2N, R7E Summit Co., Utah
 Sundry Notice
 Addition to 8-Point Drilling Plan

RECEIVED

JUN 25 1990

DIVISION OF
OIL, GAS & MINING

4. Auxiliary Equipment and Casing Program:

B. Casing:

In the event mud weights in excess of 11.0 ppg are required to control either pressures in the Stump formation or the salt zone anticipated at approximately 8400'- 8600', and lost circulation is a problem in the Twin Creek or Nugget, an additional string of casing will be set at approximately 8800'. The proposed casing program would then be:

<u>String</u>	<u>Size-in /Wt.-#/Ft/Gr</u>	<u>Depth Interval-Ft</u>
Conductor	16 /line pipe	0'-60'
Surface	10-3/4 /51 /N80	0'-2,000'
Intermediate	Either:	
	7 /23 /N80	0-5,150
	7 /26 /P110	5,150-5,750
	7 /26 /N80	5,750-7,700
	7 /26 /P110	7,700-8,200
	7 /35 /P110	8,200-8,800
	OR	
	7-5/8 /26.4/N80	0-1,400
	7-5/8 /29.7/N80	1,400-5,250
	7-5/8 /39 /N80	5,250-5,750
	7-5/8 /29.7/N80	5,750-6,800
	7-5/8 /33.7/N80	6,800-8,200
	7-3/4 /46.1/S95	8,200-8,800
Production Liner	5 /15 /N80	8,300-11,250
	5 /15 /P110	11,250-12,700

Substitutions of higher weight and/or grade may be required due to availability. The decision to go with 7" or 7-5/8" as a protection string (should the need arise) will be based on availability.

C. Cement:

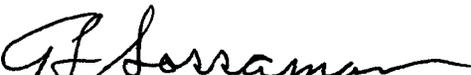
In the event that abnormal pressure greater than a Mud Weight equivalent of 10.0 ppg is encountered in the Stump formation (approx. 5870'- 6160'):

<u>Casing</u>	<u>Depth</u>	<u>Cement Type</u>	<u>Approximate Cement Volume-Ft³</u>	<u>Top of Cement (Gauge Hole)-Ft</u>
7"	12,700'	Light Cement Class H	1,125 530	5,400

In the event an intermediate casing string becomes necessary:

<u>Casing</u>	<u>Depth</u>	<u>Cement Type</u>	<u>Approximate Cement Volume-Ft³</u>	<u>Top of Cement (Gauge Hole)-Ft</u>
7" or 7-5/8"	8,800'	Light Cement Class H	585 180	5,400
5" Lnr.	12,700'	Class H	420	8,300

Contact A.L. Sossaman at (915)688-7893 with any questions concerning this Drilling Plan.



 A.L. Sossaman

/GHM

EXXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

PRODUCTION DEPARTMENT
SOUTHWESTERN DIVISION

May 3, 1990

B.A. Bingham & Sons, Inc.
Well No. 1
Section 2, T2N, R7E
Summit County, Utah

RECEIVED
MAY 07 1990

DIVISION OF
OIL, GAS & MINING

Utah Oil & Gas Conservation Commission
355 West North Temple
State Office Building
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention John Baza

Exxon requests administrative approval to drill the captioned well in exception to established spacing rules. The objective is in the Wildcat Field (Nugget Sandstone).

Rule R615-3-2 (1) requires that in the absence of established spacing rules a well be located in the center of a 40-acre 1/4 1/4 section with a tolerance of 200' in any direction. This well is proposed in an Unorthodox location for two reasons. First, there currently exists a well in the legal location not allowing room for another drilling pad. Second, topography dictates placement of this location because of a drainage area between the existing well and the chosen location.

Attached are the names and addresses of offset operators and owners within a 460' radius of the wellbore. Please send notice to these parties and publish our intent. Additional attachments include Form DOGC-1a, location plat, access route map, cut/fill diagram, and drilling plan. The surface agreement and water use permit will be submitted under separate cover. A sewage permit will be obtained before the well is spudded.

If additional information is needed, contact Stephen Johnson at (915) 688-7548.

Sincerely,

Charlotte Harper

Charlotte Harper
Permits Supervisor

CHH:jks
Attachments

OWNERS IN A 460' RADIUS
OF THE
B. A. BINGHAM & SONS, INC. WELL #1

1. Amoco Production Company
Northern Division
P. O. Box 800
Denver, CO 80202
Attn: Ms Elizabeth S. Maynard
Landman

2. Geodyne Resources, Inc.
320 South Boston, Mezzanine
Tulsa, OK 74103-3708
Attn: Mr. David Hoffman
Landman

3. North Central Oil Corporation
6001 Savoy Drive, Suite 600
Houston, TX 77036
Attn: Mr. James A. Winne III
Vice President - Land

4. Union Pacific Resources Company
P. O. Box 7
Fort Worth, TX 76101-0007
Attn: Ms. Ann Brady
Landman

5. Wolverine Exploration Company
518 17th Street
Denver, CO 80202
Attn: Mr. Keefe C. Perkins
Area Landman

6. Conquest Exploration Company
4201 F. M. 1960 W., Suite 500
Houston, TX 77068
Attn: Mr. D. C. Bianchi
Area Landman

7. Amerox Acquisition Corporation
2100 NCNB Center
700 Louisiana
Houston, TX 77002
Attn: W. G. Pattillo
Vice President - Land

4/03/90

EXXON CORPORATION - EXXON PINECLIFF NO. 2-7 BINGHAM
 Surface: 1100' FWL & 1200' FNL
 Section 2, T2N, R7E
 Summit County, Utah
 Drilling Plan
 March 30, 1990

1. The estimated tops of important geologic markers:

<u>Formation</u>	<u>Tops-Ft</u>
Wasatch	Surface
Frontier	1,900
Aspen	3,170
Kelvin	3,860
Stump	5,870
Preuss	6,160
Twin Creek	8,640
Nugget	9,920
Twin Creek	10,350
Nugget	11,120
TD	12,700

2. The estimated depths at which the top and the bottom of anticipated fresh water, oil or gas formations are expected to be encountered:

	<u>TOP-Ft</u>	<u>BOTTOM-Ft</u>	<u>HOW PROTECTED</u>
Fresh Water	Surface	1,900	Surface Casing-cement to surface
Oil/Gas	8,640	12,200	Cemented Production Casing

3. Minimum specifications for pressure control equipment:

A. Wellhead and X-mas Tree Equipment:

"A" Section: 10-3/4" BT x 11" - 3,000 psi.
 Tubing head: 11" - 3,000 psi x 7-1/16" - 5,000 psi.
 Tubing head adapter: 7-1/16" - 5,000 psi x 2-9/16" - 5,000 psi.
 Tree: 2-9/16" - 5,000 psi.

B. Blowout Preventer Equipment:

<u>TYPE</u>	<u>PRESSURE RATING</u>	<u>INSTALLED ON CASING</u>
Type-RRA or RSRA BOP Stack	3,000 psi	10-3/4"

Additional preventers may be added and/or preventers with higher pressure ratings may be substituted, depending on equipment provided by drilling contractor. Preventer stack type diagrams are attached.

C. Testing:

Operational Testing - An operational test consisting of closing the annular preventer and pipe rams on the drill pipe and closing the blind rams on open hole will be performed on each round trip but not more than once each day.

Pressure Testing - An initial pressure test will be performed after nipping up on a casing string but prior to drilling out. Equipment will be tested to 300 psi and 100% of wellhead working pressure upon installation. Annular preventer will be tested to 2,100 psi.

Subsequent pressure tests of the BOP equipment will be conducted as follows:

1. Upon any change in rams or other component of the BOP stack and/or choke manifold.
2. At least every thirty (30) days.
3. At 300 psi and 70% of wellhead working pressure. Annular preventer will be tested to 1,500 psi.

Blowout Prevention Drills - A drilling crew proficiency test to perform the well shut-in procedure will be performed at least once each week with each crew.

D. BOP Control Unit:

Unit will be hydraulically operated and have one control station located at least 60 Ft from wellbore and one located on the rig floor.

4. Auxiliary Equipment and Casing Program:

A. Auxiliary Equipment:

Kelly Cocks - upper and lower installed on kelly.

Safety Valve - full opening ball type valve to fit each type and size of drill pipe in use will be available on the rig floor in the open position at all times for use when the kelly is not connected to the drill string.

B. Casing:

<u>String</u>	<u>Size-in /Wt.-#/Ft/Gr</u>	<u>Depth Interval-Ft</u>
Conductor	16 /line pipe	0-60
Surface	10-3/4 /45.5/K55	0-2,000
Production	7 /23 /N80	0-5,150
	7 /26 /P110	5,150-5,750
	7 /26 /N80	5,750-8,200
	7 /35 /P110	8,200-8,750
	7 /32 /N80	8,750-12,700

Substitutions regarding weight and grade might be required due to availability.

C. Cement:

<u>Casing</u>	<u>Depth-Ft</u>	<u>Cement Type</u>	<u>Approximate Cement Volume-Ft³</u>	<u>Top of Cement (Gauge Hole)-Ft</u>
16"	40-60	Redi-Mix	32	Surface
10-3/4"	2,000	Light Cement Class H	835 280	Surface
7"	12,700	Light Cement Class H	450 530	8,400

Calculated cement volume will be adequate to cover all hydrocarbon bearing formations.

D. Casing Test Procedures:

1. Surface Casing (10-3/4"): 1,500 psi test pressure.
2. Production Casing (7"): 3,500 psi test pressure.

5. Circulating Medium Characteristics:

A. Type and anticipated characteristics of circulating medium:

<u>Depth Interval-Ft</u>	<u>Mud Type</u>	<u>Weight (ppg)</u>	<u>FV (sec/qt)</u>	<u>PV (cp)</u>	<u>YP (#/100sf)</u>	<u>WL (cc/30 min)</u>	<u>pH</u>
0-2,000	Spud	8.5-8.9	26-35	--	--	--	>8
2,000-8,200	FWM	8.4-9.0	30-50	5-12	6-20	10-20	>8
8,200-12,700	SWM	8.8-10.4	36-46	5-17	6-18	10-20	>8

B. Quantities of Mud and Weighting Material:

A sufficient inventory of mud materials and treating equipment will be maintained to control mud properties adequately for well control and drilling requirements.

C. Mud System Monitoring Equipment:

Trip Tank - Tank will be used to keep hole full of fluid on trips and to monitor hole behavior on trips.

6. Anticipated type and amount of coring, testing, and logging:

Coring Program: None planned.

Drill Stem Tests: Possible test in Twin Creek.

Logging Program: From surface to TD: BHC-Sonic-GR-CAL, DIL-GR
From 2,000 Ft to TD: LDT-CNL-GR-CAL-Dipmeter
From surface to TD: VSP

7. Expected bottom hole pressure, abnormal pressures and temperatures or any potential hazards:

- A. Bottom hole pressure is expected to be less than 5,300 psi at TD.
- B. No abnormal pressure or temperature hazards are expected.
- C. H₂S is not expected.

8. Other Facets of the Proposed Operation:

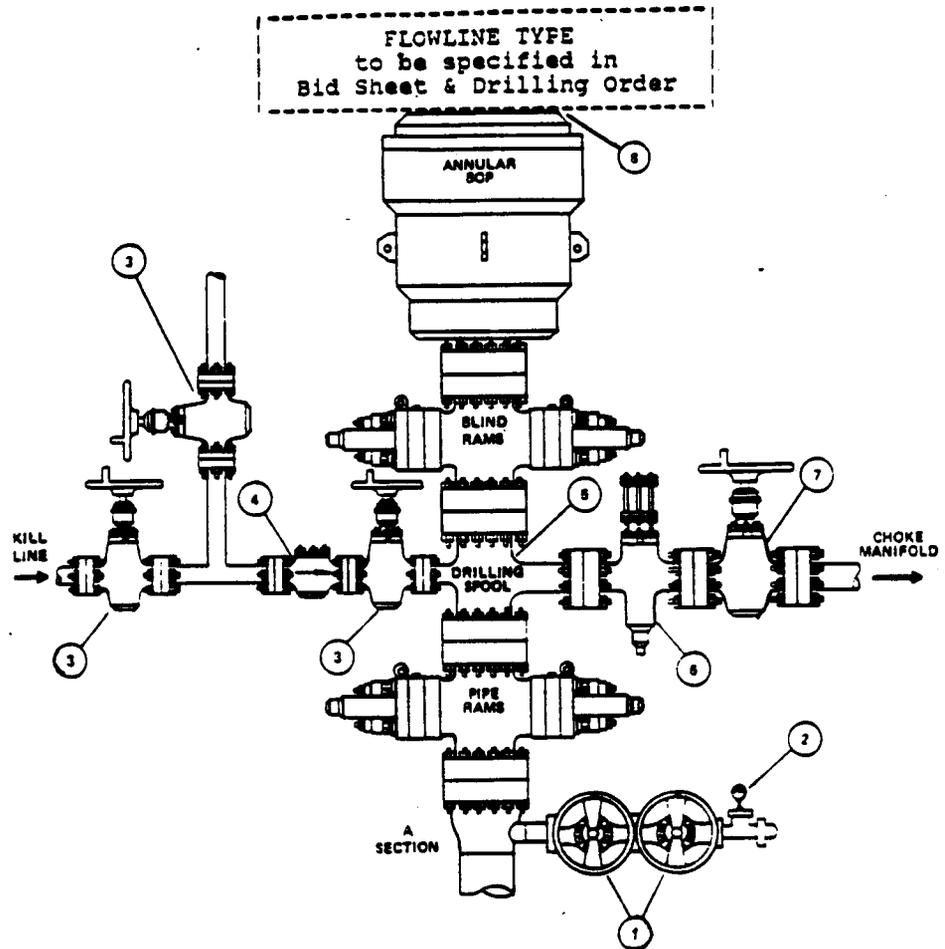
Completion Operations: Perforate, stimulate, and production test intervals based on wireline logs and shows.

Contact A. L. Sossaman at (915) 688-7893 with any questions concerning this Drilling Plan.

for David A. Murray 4/4/90
A. L. Sossaman

TYPE-RSRA BOP STACK

THREE PREVENTERS



COMPONENT SPECIFICATIONS

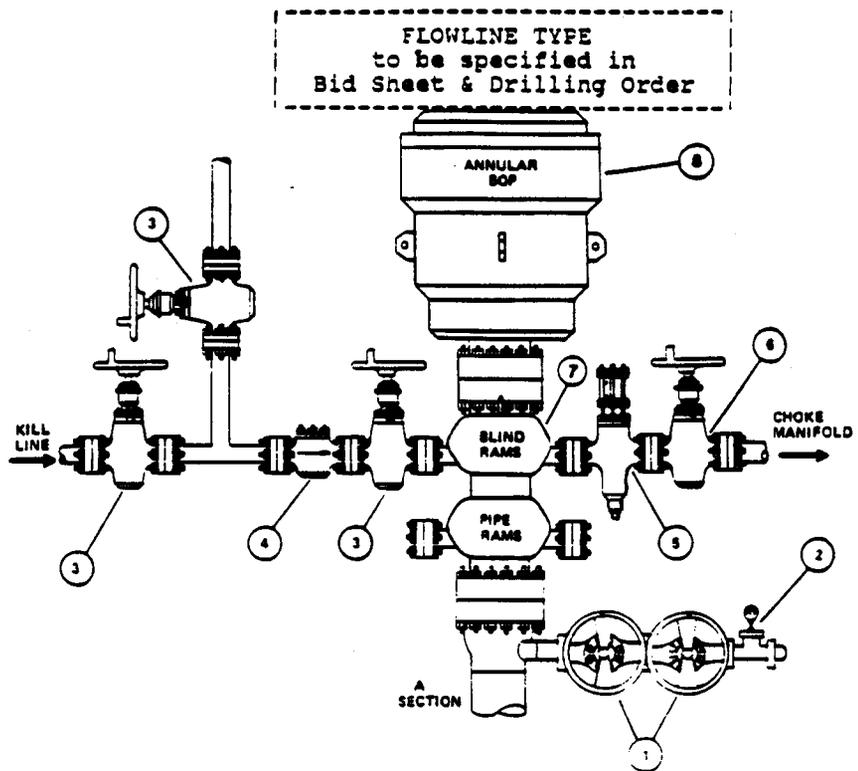
1. Screwed or flanged plug or gate valves -- 2" minimum nominal dia. -- same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve -- 2" minimum nominal dia. -- same working pressure as BOP stack. NOTE: Outer valves are optional if pump type trip tank is tied into Flowline Type.
4. Flanged spring-loaded or flapper type check valve -- 2" minimum nominal dia. -- same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets -- 3" choke and 2" kill line minimum nominal dia.
6. Flanged hydraulically controlled gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
7. Flanged plug or gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.

NOTE:

- A. Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all components shown above Exxon's wellhead.
- B. The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.
- C. Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

TYPE-RRR BOP STACK

THREE PREVENTERS



COMPONENT SPECIFICATIONS

1. Screwed or flanged plug or gate valves -- 2" minimum nominal dia. -- same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve -- 2" minimum nominal dia. -- same working pressure as BOP stack. NOTE: Outer valves are optional if pump type trip tank is tied into Flowline Type.
4. Flanged flapper type check valve -- 2" minimum nominal dia. -- same working pressure as BOP stack.
5. Flanged hydraulically controlled gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
6. Flanged plug or gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
7. BOP outlets must be 2" minimum nominal dia. for kill line and 3" minimum dia. for choke line.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.

NOTE:

- A. Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all components shown above Exxon's wellhead.
- B. The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.
- C. Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

SURFACE OWNER CERTIFICATION

WELL: B. A. Bingham & Sons,
Inc. Well No. 1

SURFACE
LOCATION: NW/4 of Sec. 2
T2N-R7E, SLBM
Summit County, Utah

I certify that Exxon Corporation has reached an agreement with B. A. Bingham & Sons, A Utah General Partnership, surface owner of the land on which the well referred to above is located, as to the requirements for the protection of surface resources and reclamation of disturbed areas and/or damages in lieu thereof.

5/22/90
Date

William J. McCabe
W. L. McCabe
Regulatory Affairs Coordinator
Exxon Corporation

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: EXXON CORP. WELL NAME: B.A. BINGHAM & SONS #1
SECTION: 2 TWP: 2N RNG: 7E LOC: 1205'FNL 888'FWL
QTR/QTR NW/NW COUNTY: SUMMIT FIELD: PINEVIEW
SURFACE OWNER: B.A. BINGHAM
SPACING: 460 F SECTION LINE 460 F QTR/QTR LINE 920 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 5/16/90 10:00

PARTICIPANTS: Bill McCabe/EXXON

REGIONAL SETTING/TOPOGRAPHY: Central Wasatch Mountains near the Chalk Creek Drainage.

LAND USE:

CURRENT SURFACE USE: Domestic Grazing.

PROPOSED SURFACE DISTURBANCE: A rectangular pad will be constructed approximately 220'X 350' with a 110'X 150' reserve pit attached. A 200' access road will be constructed from an existing location to the proposed site.

AFFECTED FLOODPLAINS AND/OR WETLANDS: A small creek is about 100' off the NE side of the proposed location and. Chalk Creek is 1/4 mile to the west.

FLORA/FAUNA: Sage, grasses, Black Rush/Deer, Rabbits, Birds

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Silty soil with abundant gravel.

SURFACE FORMATION & CHARACTERISTICS: Quaternary Alluvium lying on Wasatch Formation.

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation at present. Location should be stable but the creek to the northeast should be protected.

PALEONTOLOGICAL POTENTIAL: None observed

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Twin Creek-8640', Nugget-9920', Twin Creek-10350', Nugget-11120'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: As per landowner instructions.

RESERVE PIT

CHARACTERISTICS: The reserve pit will be rectangular shaped approximately 100'X 150'.

LINING: Reserve pit is to be lined with a synthetic liner of at least 12 mil thickness.

MUD PROGRAM: 0-2000'-spud mud, 2000-8200'-FWM, 8200-12700'-SWM

DRILLING WATER SUPPLY: Chalk Creek

OTHER OBSERVATIONS

Rushes indicate possible near surface water.

STIPULATIONS FOR APD APPROVAL

Pit is to be lined.

Berm should be placed around edge of location.

A silt fence should be placed at the base of the fill on the NE side of the location to protect the stream from sediment from the fill materials.

ATTACHMENTS

Photographs will be placed on file.

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

-
1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
-
3. APPROXIMATE DATE PROJECT WILL START:
June 1, 1990
-
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Five County Association of Governments
-
5. TYPE OF ACTION: Lease Permit License Land Aquisition
 Land Sale Land Exchange Other_____
-
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
-
7. DESCRIPTION:
Exxon Corporation proposes to drill a wildcat well, the B. A. Bingham & Sons, Inc. #1, on a private lease in Summit County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The DOGM is the primary administrative agency in this case and must issue approval to drill before operations can commence.
-
8. LAND AFFECTED (site location map required) (indicate county)
NW/4, NW/4, Section 2, Township 2 North, Range 7 East, Summit County, Utah
-
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
Unknown
-
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
No significant impacts are likely to occur
-
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
Ed Deputy, Salt Lake City, 538-5340
-
12. FOR FURTHER INFORMATION, CONTACT: 13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL
John Baza
PHONE: 538-5340
- John R. Baza*
DATE: 5-18-90
Petroleum Engineer
-



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Robert L. Morgan
State Engineer

1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3156
801-538-7240

RECEIVED
DEPT. OF NATURAL RESOURCES

MAY 29 1990

LAND & WATER
WESTERN DIV.

May 8, 1990

Exxon Corporation
c/o Bill McCabe
P.O. Box 120
Denver, CO 80302

Gentlemen:

RE: t90-35-04

Temporary Change as listed above has been approved subject to prior rights and the following conditions and stipulations:

- 1) No more water may be diverted than the 8.0 acre-feet as described in the application.
- 2) All diversions from the temporary point of diversion must cease April 30, 1991.

A copy of the Approved Temporary Change Application is returned herewith for your records and future reference.

Sincerely,

John R. Mann, P.E.
Area Engineer

JRM/11

cc: Kent Jones, P.E.
Directing Appropriations Engineer

Jerry Bronicel
Water Rights Specialist II

APPLICATION FOR TEMPORARY CHANGE OF WATER

STATE OF UTAH

Rec. by _____
Fee Paid \$ _____
Receipt # _____
Microfilmed _____
Roll # _____

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

CHANGE APPLICATION NUMBER: t90-35-04

WATER RIGHT NUMBER: 35 - 8814

This Change Application proposes to change the POINT(S) OF DIVERSION, PLACE OF USE, and NATURE OF USE.

1. OWNERSHIP INFORMATION.

A. NAME: Exxon Corporation
c/o Bill McCabe
ADDRESS: P.O. Box 120, Denver, CO 80201

B. PRIORITY OF CHANGE: May 2, 1990

FILING DATE: May 2, 1990

C. RIGHT EVIDENCED BY: 8 shares Chalk Crk. - Hoytsville Water Users Assoc
Cert. 113; App. No. 8170C Cert. 8459 35-8814

* DESCRIPTION OF CURRENT WATER RIGHT: *

2. SOURCE INFORMATION.

A. QUANTITY OF WATER: 8.0 acre-feet

B. DIRECT SOURCE: Joyce & Boyer Lakes

COUNTY: Summit

C. POINT OF DIVERSION -- SURFACE:

(1) S 735 feet E 21 feet from N $\frac{1}{4}$ corner, Section 34, T 2N, R 8E, SLBM
DIVERT WORKS: Earth Fill Dam & Outlets
SOURCE: Joyce & Boyer Lakes

3. WATER USE INFORMATION.

IRRIGATION: from Mar 1 to Nov 1.

IRRIGATING: 2,000.00 acres.

SOLE SUPPLY: 0.00 acres.

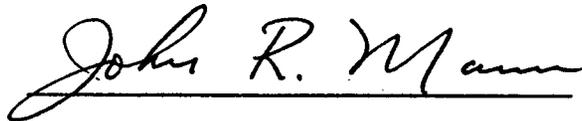
STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t90-35-04

1. May 2, 1990 Change Application received.
2. May 8, 1990 Application designated for APPROVAL by JRM and JRM.
3. Comments:

Conditions:

This application is hereby APPROVED, dated May 8, 1990, subject to prior rights and this application will expire on April 30, 1991.



John R. Mann, Area Engineer
for
Robert L. Morgan, State Engineer

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

HAROLD JACOBS
Chairman
WILLIAM D. HONER
Executive Director

RECEIVED
MAY 23 1990

Utah 84501 • Telephone 637-5444

DIVISION OF OIL, GAS & MINING AREAWIDE CLEARINGHOUSE A-95 REVIEW

NOI ___ Preapp ___ App ___ State Plan ___ State Action X Subdivision ___ (ASP # 5-59-3)

Other (indicate) _____ SAI Number UT900510-040

Applicant (Address, Phone Number):

Oil, Gas and Mining
355 West North temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Federal Funds:

Requested: _____

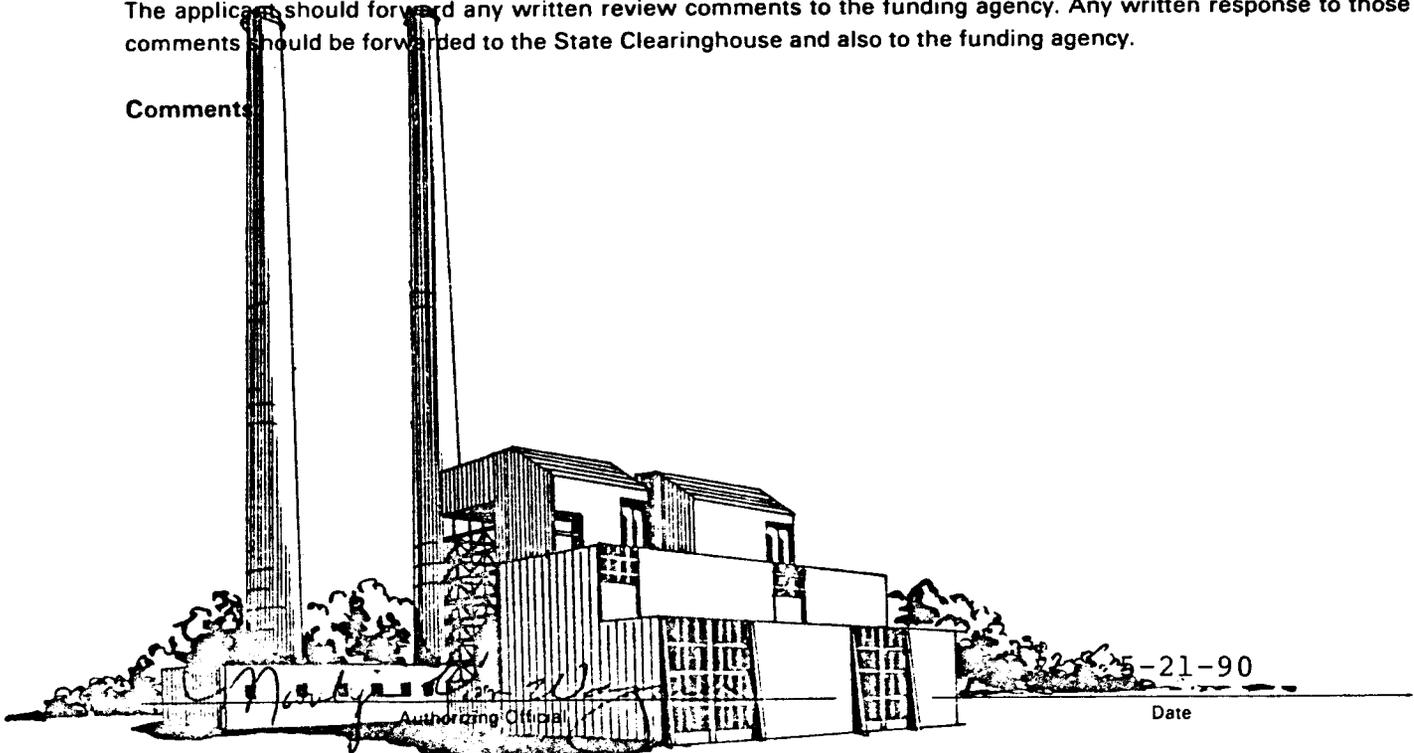
Title:

APPLICATION FOR PERMIT TO DRILL

- No comment
- See comments below
- No action taken because of insufficient information
- Please send your formal application to us for review. Your attendance is requested

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:



Authorizing Official

5-21-90

Date

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
in and for the STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF)
AMERICAN QUASAR PETROLEUM COMPANY OF)
NEW MEXICO FOR AMENDMENT TO THE SPA-) ORDER
CING ORDER FOR THE NUGGET FORMATION)
AND THE TWIN CREEK FORMATION IN THE) CAUSE NO. 160-18
NUGGET RESERVOIR, PINEVIEW FIELD,)
SUMMIT COUNTY, UTAH)

This cause came to be heard regularly before the Board of Oil, Gas and Mining ("Board"), and was heard, pursuant to due and proper Application and Notice of Hearing, on September 25, 1980 in the Executive Conference Room, Holiday Inn, 1659 West North Temple, Salt Lake City, Utah.

The following members of the Board (constituting a quorum of the Board) were present and in accordance with the law participated in the hearing upon all matters and the decision resulting in this order:

Charles R. Henderson, Chairman

John L. Bell

Edward T. Beck

E. Steele McIntyre

Max A. Farbman

The following members of the Board's staff were also present and participating:

Michael T. Minder, Geological Engineer

Denise A. Dragoo, Special Assistant Attorney General

Appearances of Counsel were made as follows:

Frank Gustin, Salt Lake City, Utah, and

Frank Douglass, Austin, Texas,

Attorneys representing American Quasar Petroleum Company
of New Mexico, Applicant herein;

Joe Henry, Denver, Colorado, and

R. C. McGinnis, Austin, Texas,

Attorneys representing Champlin Petroleum Company, the only
other operator in the subject field and an interested party
herein.

NOW, THEREFORE, the Board having fully considered the testimony of all witnesses, statements of others and all exhibits, statements introduced and received in the course of said hearing, and in all respects being fully advised in the premises, makes and enters the following Findings of Fact and Conclusions of Law and renders its permanent and final Order as follows:

FINDINGS OF FACT

1. American Quasar Petroleum Company (Applicant) owns oil and gas leases and operates wells in both the Twin Creek Formation and the Nugget Formation in the Pineview Field as spaced by the Board's Order of July 28, 1976, in Cause No. 160-6.

2. The July 28, 1976 order does not sufficiently describe the area spaced by said order. The July 28, 1976 order specifically rescinded all preexisting orders relating to drilling and spacing units in the subject lands.

3. The evidence shows that the following description is an accurate and definite description of the area spaced by the July 28, 1976 order entered in Cause No. 160-6:

All of Sections 2,3,4,5,8,9,10 and 11 in Township 2 North, Range 7 East, SLM, Summit County, Utah;

All of Sections 32,33,34 and 35 in Township 3 North, Range 7 East, SLM, Summit County, Utah.

4. There is sufficient evidence to show that surface topography and drilling conditions in the Nugget Reservoir Pineview Field^N require that operators be given more flexibility in spotting surface locations and drilling bottomhole locations in overthrust geological conditions.

5. In order to provide such flexibility, and in order to afford each owner of an interest in production in the Nugget formation and the Twin Creek formation of the Pineview field an opportunity to protect his correlative rights to produce the share of recoverable hydrocarbons initially in place under his respective tract, the spacing rules, as reflected in the July 26, 1976 order entered in Cause No. 160-6 should be amended to provide as follows:

- (a) Provided, however, the wellbore shall not be perforated or otherwise open to production in a manner that the lowest perforation or producing interval is nearer than 300 feet, measured horizontally, from quarter quarter section line on which the well was drilled and if said perforations are closer than said 300', then said well shall be immediately shut-in until the Board, after notice and hearing, determines whether said well shall be (1) permitted to be produced or (2) straightened, and if permitted to produce, at what rate. However, if the operator drilling said well owns or controls the adjacent or contiguous oil and gas lease(s) and the correlative rights of the royalty owners would not be violated then the well need not be shut-in. Nevertheless, a hearing will be held to determine the status of the well.
- (b) Upon written application to the Board and notice to each offset owner to said drilling unit, an operator may commence the drilling of a well under this order at a surface location of the operator's choice within the quarter quarter section permitted under this order and at a total depth such well shall, at the bottom of the hole, be located within the boundaries of the quarter quarter section, provided, however, that the well be drilled and completed in accordance with the provisions of subparagraph (a) above.

CONCLUSIONS OF LAW

1. The Board has jurisdiction over all matters covered by the Application of American Quasar Petroleum Company for amendment to the spacing order for the Nugget and Twin Creek Formation in the Pineview Field, Summit County, Utah. The Board also has jurisdiction over all matters covered by the Notice of Hearing and over the subject lands and mineral leases covered by the Application, and all parties interested in said subject lands as their respective interests appear. Further, the Board has the authority under applicable law to make and enter the order set forth herein:
2. The Application is in the form as provided by the applicable statutes and the rules and regulations governing proceedings before the Board.
3. Due, proper, and regular notice of the time, place and purpose of the hearing was given to all interested parties in the form and manner and within the time prescribed by the applicable statutes and the rules and regulations of the Board.

That, pursuant to the foregoing Findings of Fact and Conclusions of Law, the Board hereby makes and adopts the following:

CONCLUSIONS

1. IT IS HEREBY ORDERED that the July 26, 1976 order entered in Cause No. 160-6 and any other applicable spacing order is amended to provide the following description of the area covered by said Order:

All of Sections 2,3,4,5,8,9,10 and 11 in Township 2 North, Range 7 East,
SLM, Summit County, Utah;

All of Sections 32,33,34 and 35 in Township 3 North, Range 7 East, SLM,
Summit County, Utah.

2. IT IS FURTHER ORDERED that Ordering Paragraph 2, Page 7 of the July
26, 1976 order entered in Cause No. 160-6 is amended to provide as follows:

- "2. In order to afford each owner of an interest in production from the subject lands an opportunity to protect his respective correlative right to produce the share of recoverable hydrocarbons initially in place under his respective tract, drilling and spacing units should consist of the N/2 and S/2 of each quarter section and the permitted well location for each such drilling and spacing unit shall be located in the center of the NW/4 and the center of the SE/4 of each quarter section with the tolerance of 200 feet in any direction when surface topography makes it necessary.
- (a) Provided, however, the wellbore shall not be perforated or otherwise open to production in a manner that the lowest perforation or producing interval is nearer than 300 feet, measured horizontally, from quarter quarter section line on which the well was drilled and if said perforations are closer than said 300', then said well shall be immediately shut-in until the Board, after notice and hearing, determines whether said well shall be (1) permitted to be produced or (2) straightened, and, if permitted to produce, at what rate. However, if the operator drilling said well owns or controls the adjacent or contiguous oil and gas lease(s) and the correlative rights of the royalty owners would not be violated then the well need not be shut-in. Nevertheless, a hearing will be held to determine the status of the well.
- (b) Upon written application to the Board and notice to each offset owner to said drilling unit, an operator may commence the drilling of said well under this order at a surface location of the operator's choice within the quarter quarter section permitted under this order and at a total depth such well shall, at the bottom of the hole, be located within the boundaries of the quarter quarter section, provided, however, that the well be drilled and completed in accordance with the provisions of subparagraph (a) above.

ENTERED THIS 25th day of September, 1980.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING

Charles R. Henderson, Chairman

John L. Bell

Edward T. Beck

E. Steele McIntyre

Max A. Farbman

OPERATOR Exxon Corporation (N0420) DATE 5-8-90

WELL NAME B.A. Bingham & Sons, Inc. #1

SEC NW/4 2 T 2N R 7E COUNTY Summit

43-043-30095
API NUMBER

Fee (4)
TYPE OF LEASE

CHECK OFF: (30,000 #510 1159)

PLAT

BOND

NEAREST WELL

LEASE

FIELD (5)

POTASH OR OIL SHALE

PROCESSING COMMENTS:
Nearest well "Union Pacific #2-2" Spaced under Cause No. 160-18.
Need Water Permit - +90-35-0 (35-8814)
Presite 5-21-90 / ~~WFE~~^{Biology} Review 5-21-90
RDCC 5-15-90 / Process 6-1-90

APPROVAL LETTER:

SPACING: R615-2-3 N/A UNIT R615-3-2
(SubThrust - Not included in Spacing Order)
 160-18 9-25-80 CAUSE NO. & DATE R615-3-3

STIPULATIONS:

1. Water Permit Rec. 5-03-90
2. Fee Land Strip.
2. The reserve pit shall be lined with a synthetic liner of at least 12 mil thickness.
3. A berm should be placed around the edge of the location to prevent influent to or effluent from the location.
4. A silt fence should be placed at the base of the fill on the NE side of the location to protect the stream from sediment in the fill materials.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

June 29, 1990

Exxon Corporation
P. O. Box 1600
Midland, Texas 79702

Gentlemen:

Re: B.A. Bingham & Sons, Inc. #1 - NW NW Sec. 2, T. 2N, R. 7E - Summit County, Utah - 1205' FNL, 888' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Exxon Corporation, as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.
2. The reserve pit shall be lined with a synthetic liner of at least 12 mil. thickness.
3. A berm should be placed around the edge of the location to prevent influent to or effluent from the location.
4. A silt fence should be placed at the base of the fill on the NE side of the location to protect the stream from sediment in the fill materials.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.

Page 2
Exxon Corporation
B.A. Bingham & Sons, Inc.
June 29, 1990

3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-043-30295.

Sincerely,



R. J. Pirth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
WE14/1-12

DIVISION OF OIL, GAS AND MINING

API NO. 43-043-30295

SPUDDING INFORMATION

NAME OF COMPANY: EXXON CORPORATION

WELL NAME: B.A. BINGHAM INC. #1

SECTION NWNW 2 TOWNSHIP 2N RANGE 7E COUNTY SUMMIT

DRILLING CONTRACTOR NORTON

RIG # 9

SPUDDED: DATE 7/6/90

TIME 11:30 p.m.

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY RED GARRETT

TELEPHONE # 336-5860

OIL AND GAS	
DN	RIF
GR	GIH
LN	SLS
1-TAS	
MICROFILM ✓	
3. FILE	

DATE 7/9/90 SIGNED TAS

30095

Double Jack Testing & Services Inc.

P.O. Box 2097
Evanston, WY 82931-2097
(307) 789-9213

FIELD TICKET # **7846**
Nocton #9
RIG NAME & NO.
Busham #1
WELL NAME & NO.

7-11-90
DATE
Exxon
OPERATOR
Summit Wt.
COUNTY STATE
Began test sat A.M.

SECTION 2 TOWNSHIP 2N RANGE 7E
Completed test 6:10 PM.

ITEMS TESTED	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES	
Top Pipe Rams	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	Closing Unit Psi _____
Bottom Pipe Rams	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 "</u>	Closing Time of Rams _____
Blind Rams	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 "</u>	Closing Time of Annular _____
Annular B.O.P.	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 "</u>	Closed Casing Head Valve _____
Choke Manifold	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 "</u>	Set Wear Sleeve _____
Choke Line	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 "</u>	COMMENTS
Kill Line	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 "</u>	
Super Choke	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 "</u>	
Upper Kelly	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	
Lower Kelly	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	
Floor Valve	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	
Dart Valve	<u>500</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	

10 3/4"

ADDITIONAL TESTS & COMMENTS: Casing test 30 min @ 1500 #s

<u>Bottom Rams</u>	<u>500 #s</u>	<u>5 min</u>	<u>3000 #s</u>	<u>10 min</u>
<u>Upper Rams</u>	<u>500 #s</u>	<u>5 min</u>	<u>3000 #s</u>	<u>10 min</u>
<u>Blind Rams</u>	<u>500 #s</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>

Hydril
H.C.K.
upside Manual Kill valve / dart valve.
Blinds
Manual Choke
2 # of upside kill valve
Check valve on kill line.
T.F.W. valve was bad, well
said to down and rebuild.

TEST PLUG _____
RET. TOOL _____
TOP SUB. _____
KELLY SUB. _____
X-OVER SUB. _____

RATES _____
UNIT RATES Lower Kelly Cack would not test on lower pressure
ADDITIONAL test 1400 #s in 10 min are high. (Well replace).
MILEAGE _____
METHANOL _____
OTHER _____

SUB TOTAL _____
TAX _____
TOTAL _____

Red Burnett
CO. REP.

Tom Jefferson
TESTED BY

NOTICE TO ALL CUSTOMERS

If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned agree(s) to pay in either case, reasonable expense of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE, the following information disclosure. Under the terms of our regular accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services A LATE CHARGE will be assessed when accounts are not paid when due THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is and ANNUAL PERCENT RATE OF 21% to the previous balance in the account on the billing date. No further credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held liable for damages caused by acts of God, or unforeseen circumstances that could not be reasonably anticipated in performing the work done as set forth above.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
BOPE TEST INSPECTION FORM

COMPANY: EXXON REPRESENTATIVE: RED GARRET

WELL NAME: BINGHAM #1 API# 43-043-30295

QTR/QTR NW/ND SECTION 2 WELLSIGN Y TWP 2N RANGE 7E

INSPECTOR: Jim Thompson DATE: 7-10-90

DRILLING CONTRACTOR NORTON DRILLING RIG # 9

RIG OPERATIONS: SOTENS 2000 SURFACE CASINGS

DEPTH 2000' LAST CASING 10 3/4" @ 2019.52

TEST BY _____ WATER _____ MUD _____

PRESSURE RATING OF STACK _____ H2S RATED _____

TEST PRESSURES 1 KELLYCOCK: UPPER _____ LOWER _____

INSIDE BOP _____ FULL OPENING VALVE ON FLOOR _____

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR _____

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

ADDITIONAL COMMENTS: Got good returns, WOC, encountered small
water flow, cement fell 182' - RIH 1" line, pumped 99 sacs
Class H 3% chert to surface - WOC

REPORTED BY: _____ PHONE: _____

DATE: _____ SIGNED: _____

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File B.A. Bingham #1
(Location) Sec 2 Twp 2N Rng 7E
(API No.) 43-043-30295

Suspense
(Return Date) _____
(To - Initials) _____
 Other

1. Date of Phone Call: 7-5-90 Time: 8:30 am

2. DOGM Employee (name) John Baza (Initiated Call)
Talked to:

Name Red Garrett (Initiated Call) - Phone No. ()
of (Company/Organization) Exxon

3. Topic of Conversation: Changes to approved APD for well.

4. Highlights of Conversation: Stipulations in APD to be met
as follows:
1. Will use hay bales on downside berm of location
as a silt fence for stream.
2. They are using closed mud system - no reserve
pit. Therefore no need for pit liner.
I verbally approved the described changes.

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or
Use "APPLICATION FOR PERMIT—" for

RECEIVED
JUL 18 1990
DIVISION OF OIL, GAS & MINING

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Exxon Corporation Attn: Alex M. Correa		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702 915-488-8511		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1205' FNL & 888' FWL of Sec.		8. FARM OR LEASE NAME B. A. Bingham & Sons, Inc.
14. PERMIT NO. 4304330295	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6713 GR	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 2, T2N, R7E
		12. COUNTY OR PARISH Summitt
		13. STATE Utah

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

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

Confirm verbal approval given by John ^{Baza} Garza (Utah O&G) to substitute hay bales for synthetic liner of at least 12 mil. thickness for cuttings pit.

OIL AND GAS	
DN	RJF
1 JPB ✓	2 GLH
DIS	SLB
3 DNE ✓	
4- MICROFILM ✓	
5- FILE	

18. I hereby certify that the foregoing is true and correct
 SIGNED Alex M. Correa TITLE Administrative Specialist DATE 7-11-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL, IF ANY:
 See attachment.

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 7-23-90
John R. Baza

*See Instructions on Reverse Side.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
CONDITIONS OF APPROVAL FOR CHANGE OF PLANS

Exxon Corporation
B. A. Bingham & Sons Well No. 1
Sec. 2, T. 2N, R. 7E
Summit County, Utah
July 23, 1990

Reference Document: Sundry notice dated July 11, 1990.

Based on a telephone communication between Mr. Red Garrett of Exxon and John Baza of the Division, the following changes were approved in the drilling plan for the referenced well:

1. Hay bales were allowed to be used in the drainage downhill from the location in place of a silt fence for controlling sediment from the location entering into the drainage.
2. No liner was required for the reserve pit because Exxon is using a closed mud system and no fluids would be introduced into the pit.

condapp.doc-5

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
BOPE TEST INSPECTION FORM

COMPANY: Exxon Corp REPRESENTATIVE: Red Carret

WELL NAME: BA BINGHAM 1 S. I. #1 API# 42-043-30295

QTR/QTR^N W/MW SECTION 2 WELLSIGN 1 STWP 2N RANGE 7E

INSPECTOR: John Berrier DATE: 7-22-90

DRILLING CONTRACTOR Norton Drilling RIG # 9

RIG OPERATIONS: Tripping out of collars

DEPTH 5003 LAST CASING 10 3/4 @ 2020

TEST BY Double Jack ^{John Blakeman} WATER MUD

PRESSURE RATING OF STACK 3000 (spool) H2S RATED No

TEST PRESSURES 300 13000 KELLYCOCK: UPPER LOWER

INSIDE BOP yes FULL OPENING VALVE ON FLOOR No *

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR yes

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. Drilling Head
2. Hydrill - 10' m
3. Rams - 13 3/8 - 10,000' Blinds
4. Spool
5. Rams - 13 3/8 - 10 m 5" DP
6. Rams 13 3/8 10 m 5" DP
Spool X-over 11" - 3000

ADDITIONAL COMMENTS: _____

* New T.I.W Valve on Loc. Mon. Am (7-23-90)

REPORTED BY: _____ PHONE: 336-5860
5967

DATE: _____ SIGNED: John Berrier

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

Double Jack Testing & Services Inc.

P.O. Box 2097
Evanston, WY 82931-2097
(307) 789-9213

FIELD TICKET **7410**
NORTON #9
RIG NAME & NO.
B.A. BINGHAM & SONS #1
WELL NAME & NO.

DATE 7-22-90
EXXON USA

OPERATOR
Summit Utah

COUNTY STATE
BOP'S KEY MANIFOLD

SECTION
2

TOWNSHIP
2N

RANGE
7E

ITEMS TESTED

LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES
--------------	-------------------	---------------	-------------------

Top Pipe Ram	<u>300</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	Closing Unit Psi	<u>2700</u>
Bottom Pipe Ram	<u>300</u>				Closing Time of Ram	<u>9 Sec</u>
Blind Rams	<u>300</u>				Closing Time of Annular	<u>14 Sec</u>
Annular B.C.	<u>300</u>				Closed Casing Head Valve	<u>YES</u>
Choke Manif	<u>300</u>				Set Well Stop	<u>NO</u>
Choke Lin	<u>300</u>					
Kill Lin						
Super						
Upper Ke						
Lower Ke						
Floor Valve						
Dart Valve						

ADDITIONAL TESTS & COMMENTS:

Location at 8:15 am.

Location at 3:00 pm.

7-22-90

TEST PLUG 10" WKA

RET TOOL NONE

TOP SUB. 4 1/2 IF

KELLY SUB 4 1/2 IF

X-OVER SUB 4 1/2 AH PIN TO 4 1/2 IF BOX

RATES

UNIT RATE For 1st 6 hours 00

ADDITIONAL for each additional hour over 6 hours 1.00

MILEAGE roundtrip mileage at 1.00 ea 00

METHANOL

OTHER

TESTER

NOTICE TO ALL CUSTOMERS

TOTAL 1.00

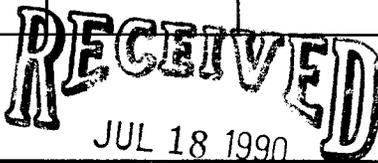
If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned agree(s) to pay in either case, reasonable expense of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE, the following information disclosure. Under the terms of our regular accounts, all amounts for services due and payable are due 30 DAYS from the receipt of invoice. A LATE CHARGE will be assessed when accounts are not paid when due THE LATE CHARGE is computed at 1 1/2% per month on the unpaid balance. Credit can be extended on unpaid delinquent accounts at the discretion of the company. Payment by check is not acceptable anticipated in performing the work.

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Exxon Corporation
ADDRESS P. O. Box 1600
Midland, TX 79702
Attn: Alex M. Correa

OPERATOR CODE 7-7-90 N0420
PHONE NO. 915, 688-7532

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE												
					QQ	SC	TP	RG	COUNTY														
A	99999	11097	4304330295	#1 B. A. Bingham & Sons, Inc.	NWNW	2	2N	7E	Summit	7-6-90													
COMMENTS: Fee-Lease Field-wildcat Unit-N/A Proposed Zone- NGSB (Entity 11097 added 7-20-90) for																							
COMMENTS:																							
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p style="text-align: center; margin: 0;">OIL AND GAS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DPN</td> <td style="width: 50%;">R/J</td> </tr> <tr> <td>JFB</td> <td>GLH</td> </tr> <tr> <td>D/S</td> <td>SLS</td> </tr> <tr> <td colspan="2" style="text-align: center;">  </td> </tr> <tr> <td>2-</td> <td>MICROFILM ✓</td> </tr> <tr> <td>3-</td> <td>FILE</td> </tr> </table> </div>												DPN	R/J	JFB	GLH	D/S	SLS			2-	MICROFILM ✓	3-	FILE
DPN	R/J																						
JFB	GLH																						
D/S	SLS																						
																							
2-	MICROFILM ✓																						
3-	FILE																						
COMMENTS:																							
<div style="text-align: right; margin-right: 50px;">  <p style="margin: 0;">JUL 18 1990</p> <p style="margin: 0;">DIVISION OF OIL, GAS & MINING</p> </div>																							
COMMENTS:																							

ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL
 B - ADD NEW WELL TO EXISTING ENTITY
 C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
 D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
 E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)


 Alex M. Correa
 SIGNATURE
 Administrative Spec. 7-12-90
 TITLE DATE



PACR Log

Company BXON
 Well Burton #1 Field
 District SIR
 Type Service Top Job
 Engineer W. S. W.
 Date/Time Start Job 7-10-90
 Remarks

CEMENT JOB

PLAYBACK MODE - OIL UNITS

- Curve 1 : Unit 1 Pressure
- Curve 2 : Unit 1 Density
- Curve 3 : Unit 1 Total Flow rate
- Curve 4 : Disabled

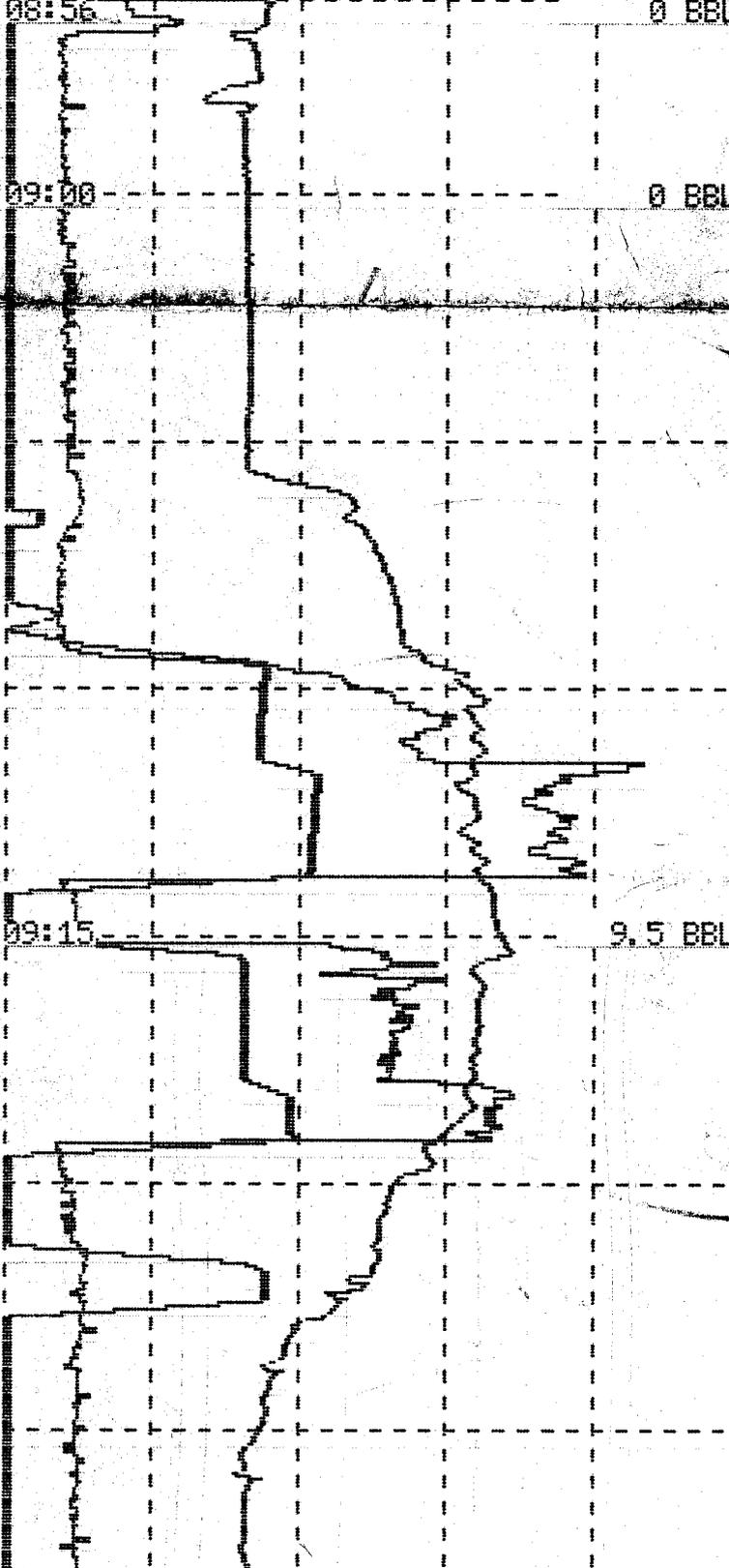
- Volume is computed from :
- Unit 1 Total Flow rate
- Scan Period (Sec) : 4
- Playback : Recording Rate was 4 seconds

0	_____	PSI	_____	1000
0	_____	PPG	_____	25
0	_____	BPM	_____	5

08:56 _____ 0 BBL

09:00 _____ 0 BBL

09:15 _____ 9.5 BBL



DOUBLE JACK TESTING & SERVICES, INC.

B.O.P. TEST REPORT

RECEIVED
JUL 26 1990

DIVISION OF
OIL, GAS & MINING

B.O.P. Test performed on (date) 7-11-90

Oil Company EXXON

Well Name & Number Bingham #1 43-043-30295

Section 2

Township 2N

Range 7-E

County Summit

Drilling Contractor Norton #9

Oil Company Site Representative Red

Rig Tool Pusher Bubba

Tested out of Vernal UT

Notified Prior to Test state

Copies of this test report sent to: state of UT

EXXON

Norton

Original chart & test report on file at: Vernal Office

OIL AND GAS	
DFN	RJF
JFB	GLH
DIS	SLS
1-JLT	
2- MICROFILM	<input checked="" type="checkbox"/>
3- FILE	

Tested by: Double Jack Testing & Services, Inc
~~600 North Main Avenue~~ 1225 E Hwy 40 #4 P.O. Box 828
Vernal, Utah 84078

COMPANY

LEASE AND WELL NAME #

DATE OF TEST

RIG # AND NAME

EXXON

Bingham #1

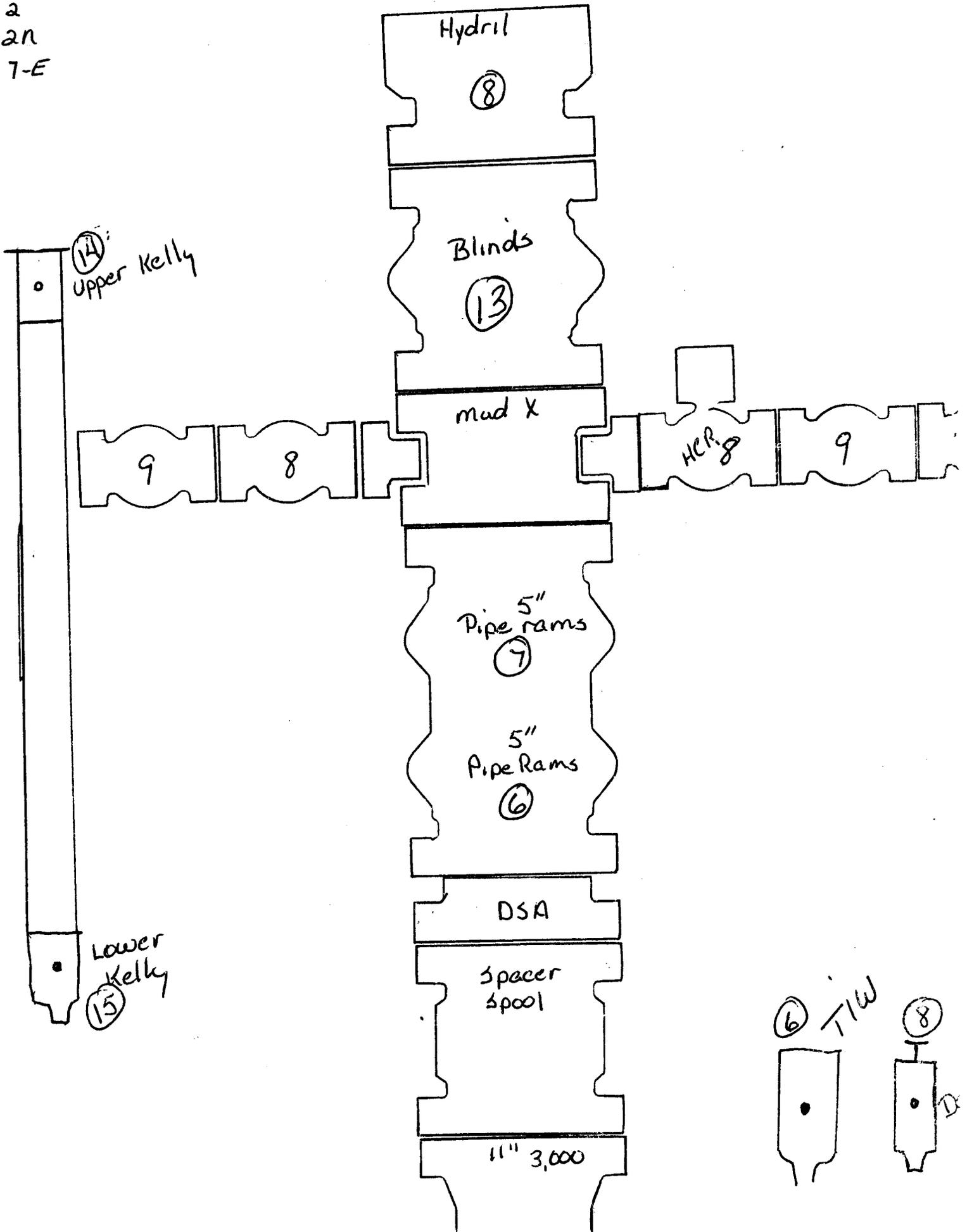
7-11-90

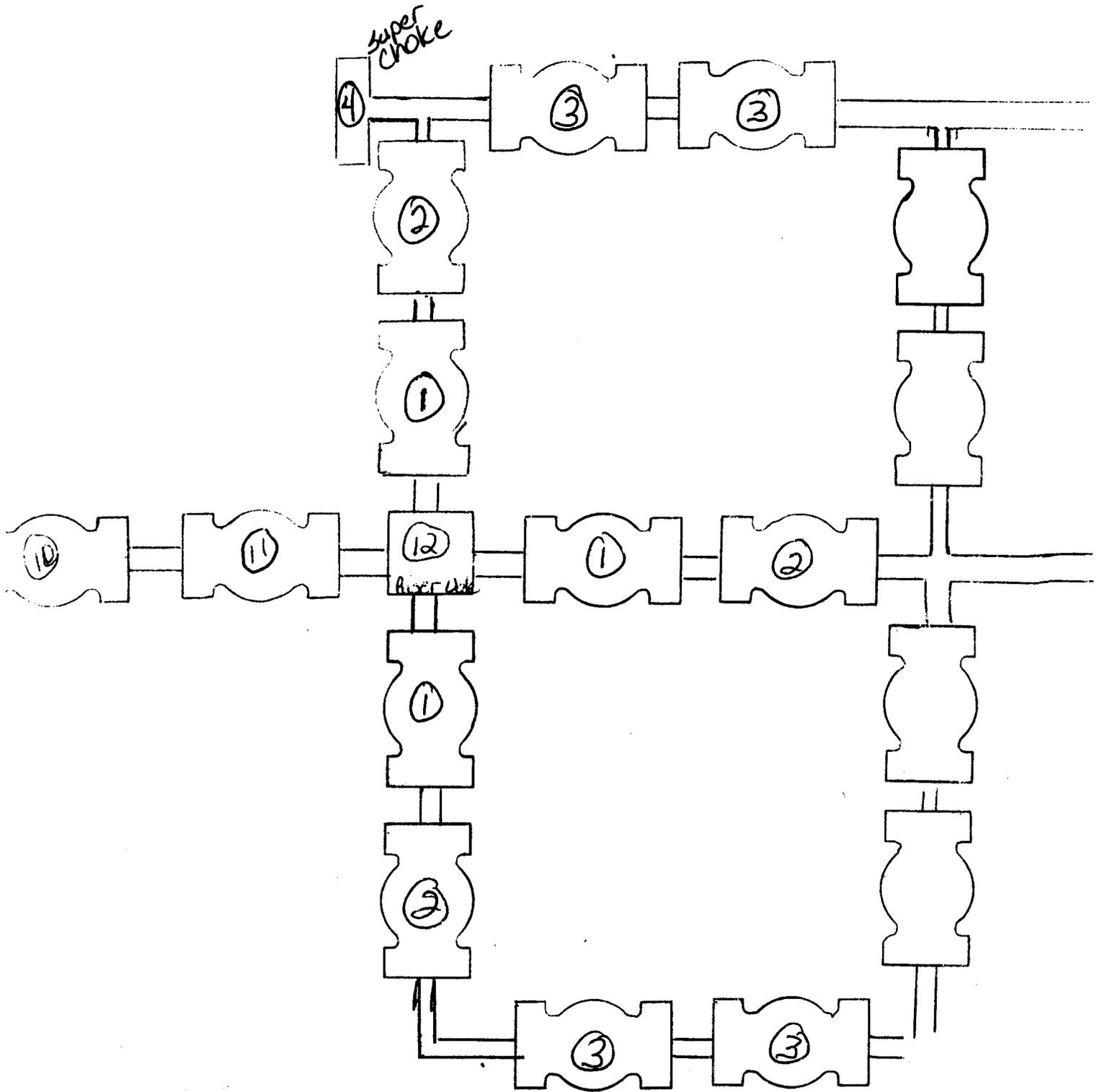
Norton #9

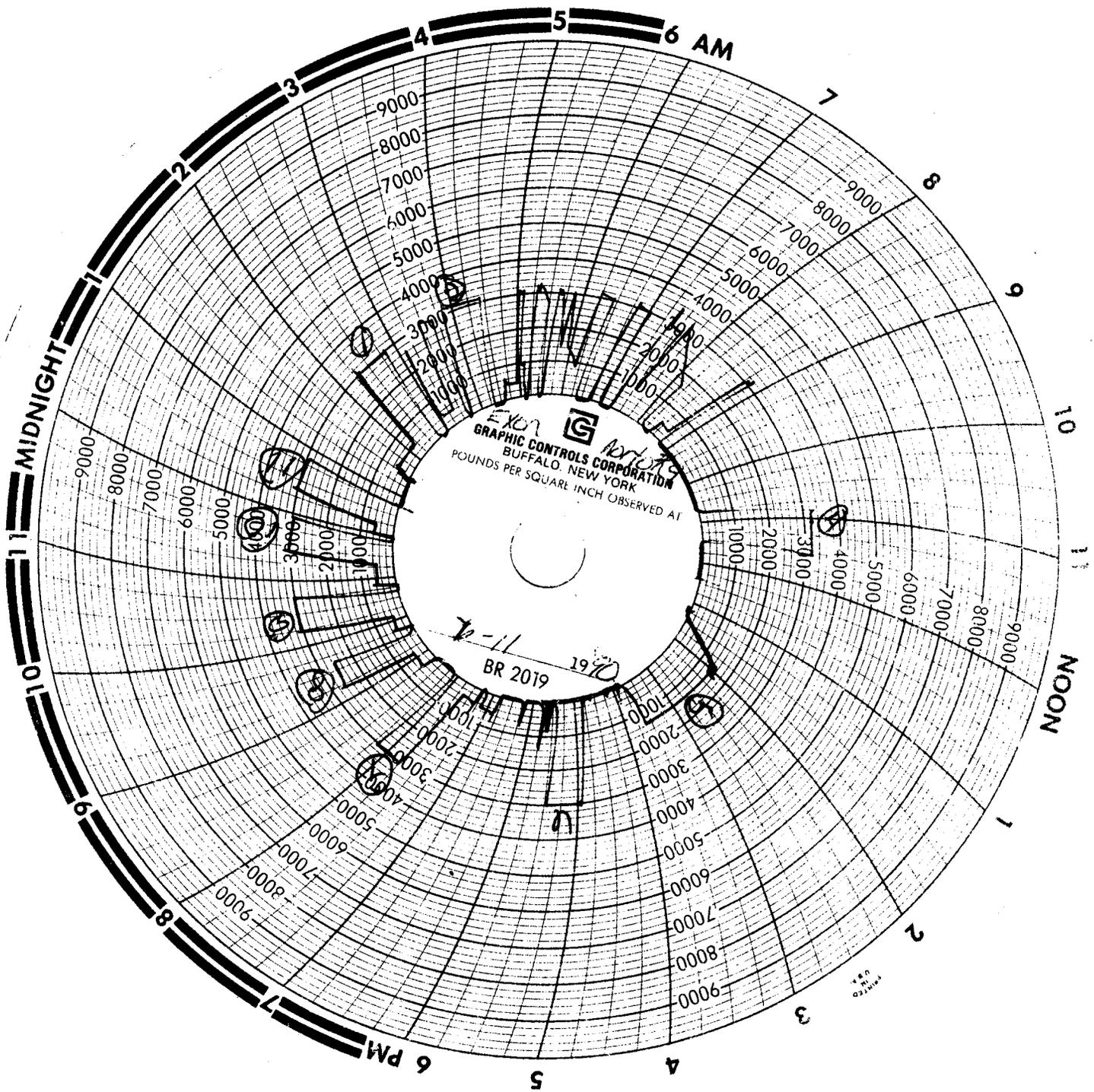
TEST #	TIME		
①	6:30-6:35	Inside Choke Manifold	Low 500p.
	6:39-6:49	Inside Choke Manifold	High 3,000p.
②	6:56-7:01	Outside Choke Manifold	Low 500 p.
	7:08-7:18	Outside Choke Manifold	High 3,000 p.
③	7:27-7:32	Down stream Valves	Low 500 p.
	No Test	Down stream Valves	High 3,000p.
④	8:42-8:47	Super choke	Low 500ps
	9:22-9:42	Super choke	High 3,000p.
⑤	11:58-12:28	Cassing 1500 PSI for 30 min	Low 1500p.
		Cassing	High 500
⑥	1:23-2:28	5" pipe rams Bottom & TIW	Low 500 p.
	1:43-1:53	5" pipe rams Bottom & TIW	High 3,000p.
⑦	2:32-2:37	5" pipe rams Top & TIW	Low 500ps
	2:38-2:48	5" pipe rams Top & TIW	High 3,000p.
⑧	3:00-3:05	Hydril, HCR & inside manual kill & Dart	Low 500 p.
	3:05-3:15	Hydril, HCR & inside manual kill & Dart	High 3,000p.
⑨	3:05-3:28	Hydril, outside manual kill & outside man choke	Low 500 p.
	3:28-3:38	Hydril, outside manual kill & outside man choke	High 3,000 p.
⑩	3:42-3:47	Hydril & 3 rd choke valve	Low 500 ps.
	3:51-4:01	Hydril & 3 rd Choke valve	High 3,000p.
⑪	4:03-4:08	Hydril & 4 th choke valve	Low 500ps.
	4:10-4:20	Hydril 4 th Choke valve	High 3,000p.
⑫	4:25-4:30	Hydril & riser valve on choke	Low 500p.
	4:32-4:42	Hydril & riser valve on choke	High 3,000p.
⑬	4:55-5:00	Blinds Kelly	Low 500p.
	5:02-5:12	Blinds Kelly	High 3,000p.
⑭	5:50-5:55	Upper Kelly	Low 500 p.
	5:56-6:06	Upper Kelly	High 3,000p.
⑮	3:05-3:10	Lower Kelly	Low 500p.
	3:25-3:35	Lower Kelly	High 3,000p.
⑯	5:19-5:34	Cassing 1/2 shoe	15 min 1500 PSI

Q. EXXON
Bingham #1
Sec 2
T 2N
R 7-E

Norton #9



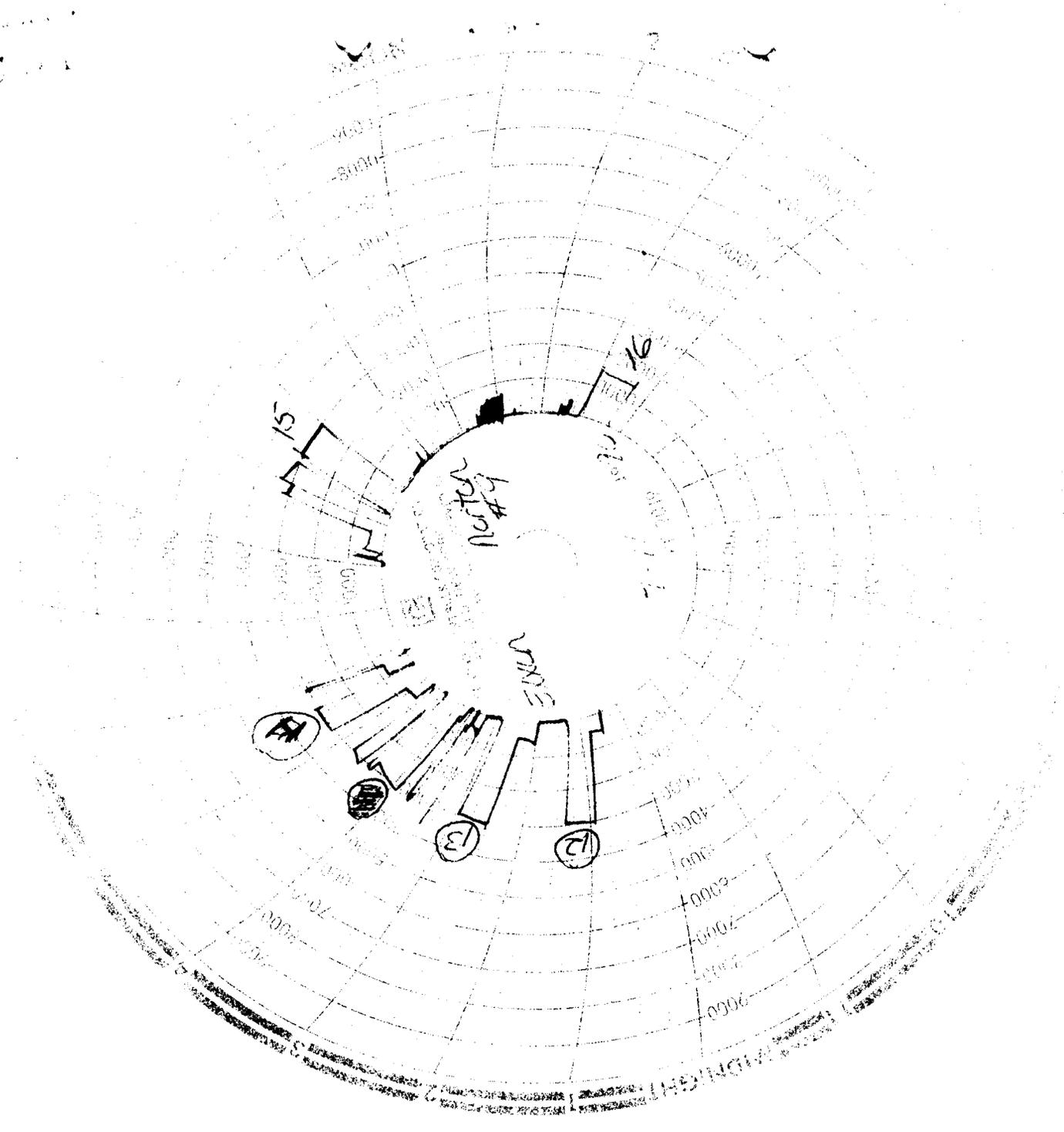




EXON
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
POUNDS PER SQUARE INCH OBSERVED AT

BR 2019 1970

1 1/2" x 1 1/2"



North #4

S15

S14

S16

12

13

14

15

16

17

18

19

20

RECEIVED
AUG 13 1990

DOUBLE JACK TESTING & SERVICES, INC.

B.O.P. Test Report

DIVISION OF
OIL, GAS & MINING
B.O.P. Test Performed on (date)

7-22-90

Oil company EXXON USA

Well Name & Number B. A. BINGHAM + SONS INC. #1

Section 2 43-043-30295

Township 2N

Range 7E

County SUMMIT

Drilling contractor NORTON #9

Oil company site representative RED GARRETT

Rig tool pusher JOHN

Tested out of EVANSTON

Notified prior to test STATE OF UTAH

Copies of this test report sent to: STATE OF UTAH ^{Att.} JOHN BERRIER

EXXON CO. SITE

Original chart & test report on file at: _____

(BELOW)

Tested by: Double Jack Testing & Services, Inc.
108 Parkview Road
P.O. Box 2097
Evanston, Wyoming 82930

OIL AND GAS	
DFN	RJF
JPB	GLH
DTS	SLS
1	JLT
2	MICROFILM ✓
3	FILE ✓

Double Jack Testing & Services Inc.

P.O. Box 2097
Evanston, WY 82931-2097
(307) 789-9213

FIELD TICKET 7410

NORTON #9

RIG NAME & NO.

R.A. BINGHAM & SONS #1
WELL NAME & NO.

DATE 7-22-90
EXXON USA
OPERATOR Summit, Utah
COUNTY BOPE KELY STATE MANIFOLD

SECTION 2

TOWNSHIP 2N

RANGE 7E

ITEMS TESTED

	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES	
Top Pipe Rams	<u>300</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	Closing Unit Psi <u>2700</u>
Bottom Pipe Rams	<u>300</u>				Closing Time of Rams <u>9 Sec</u>
Blind Rams	<u>300</u>				Closing Time of Annular <u>14 Sec</u>
Annular B.O.P.	<u>300</u>				Closed Casing Head Valve <u>YES</u>
Choke Manifold	<u>2</u>				Set Wear Sleeve <u>NO</u>
Choke Line	<u>2</u>				
Kill Line	<u>2</u>				
Super Choke	<u>2</u>				
Upper Kelly	<u>2</u>				
Lower Kelly	<u>2</u>				
Floor Valve	<u>2</u>				
Dart Valve	<u>2</u>				

COMMENTS

ADDITIONAL TESTS & COMMENTS:

Arrive on location at 8:15 am. }
Leave location at 3:00 pm. } 7-22-90

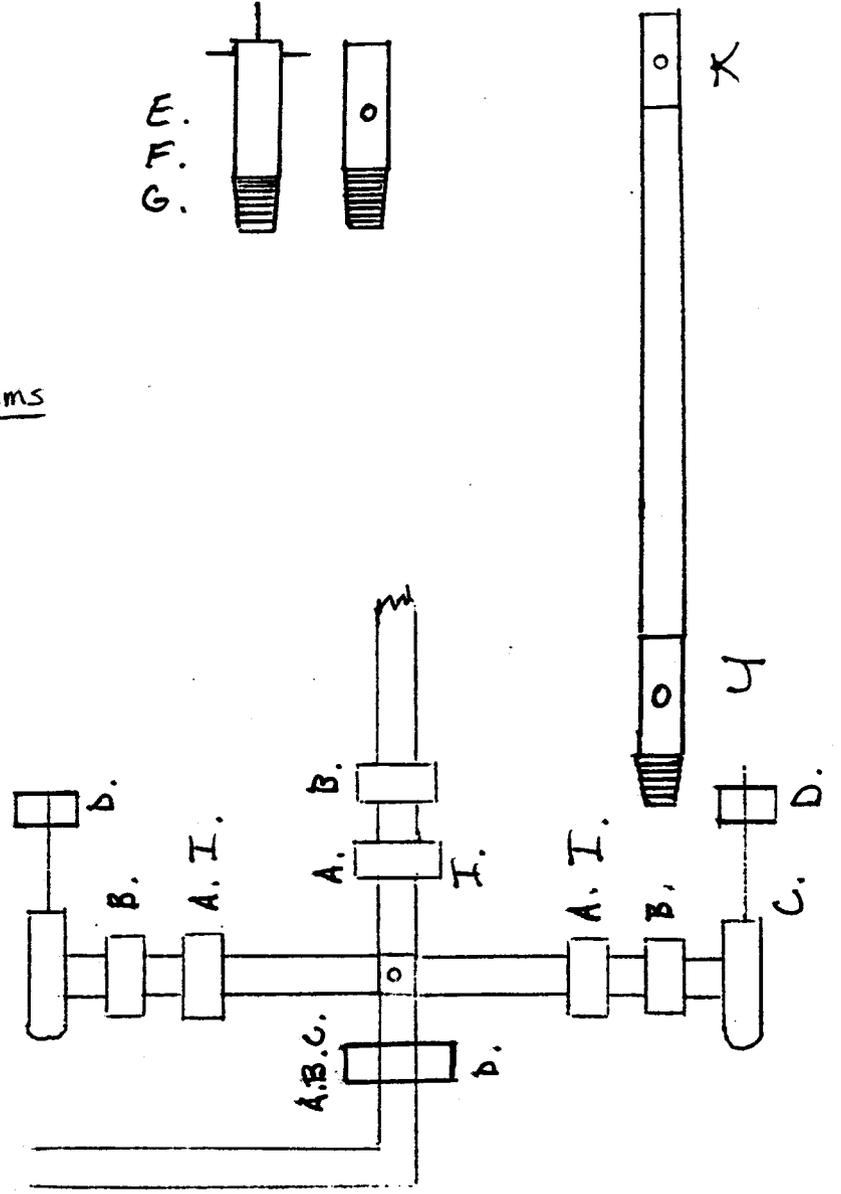
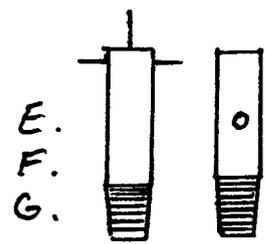
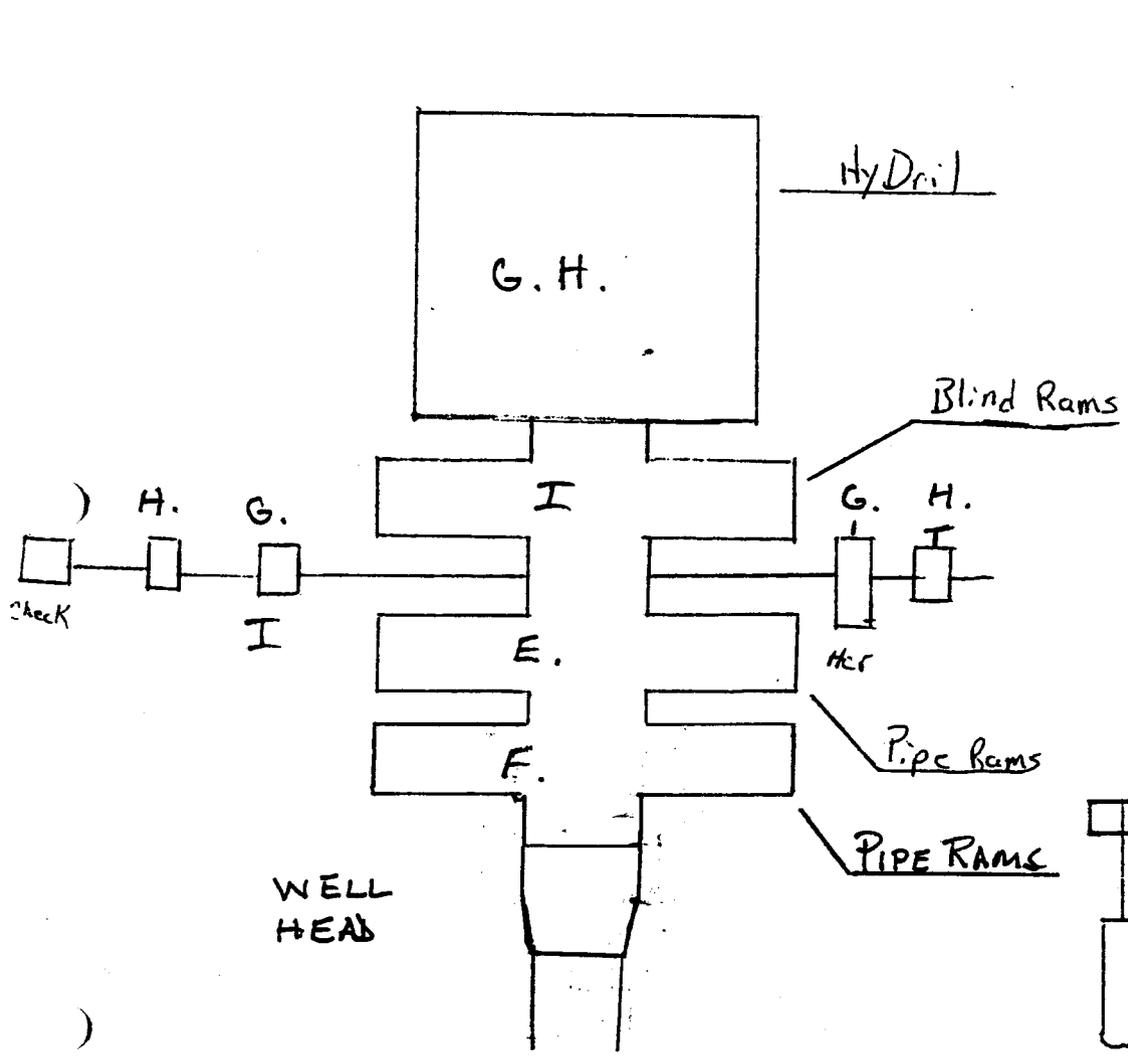
TEST PLUG 10" Wkm
RET. TOOL NONE
TOP SUB. 4 1/2 IF
KELLY SUB. 4 1/2 IF
X-OVER SUB. 4 1/2 XH PIN TO 4 1/2 IF BOX

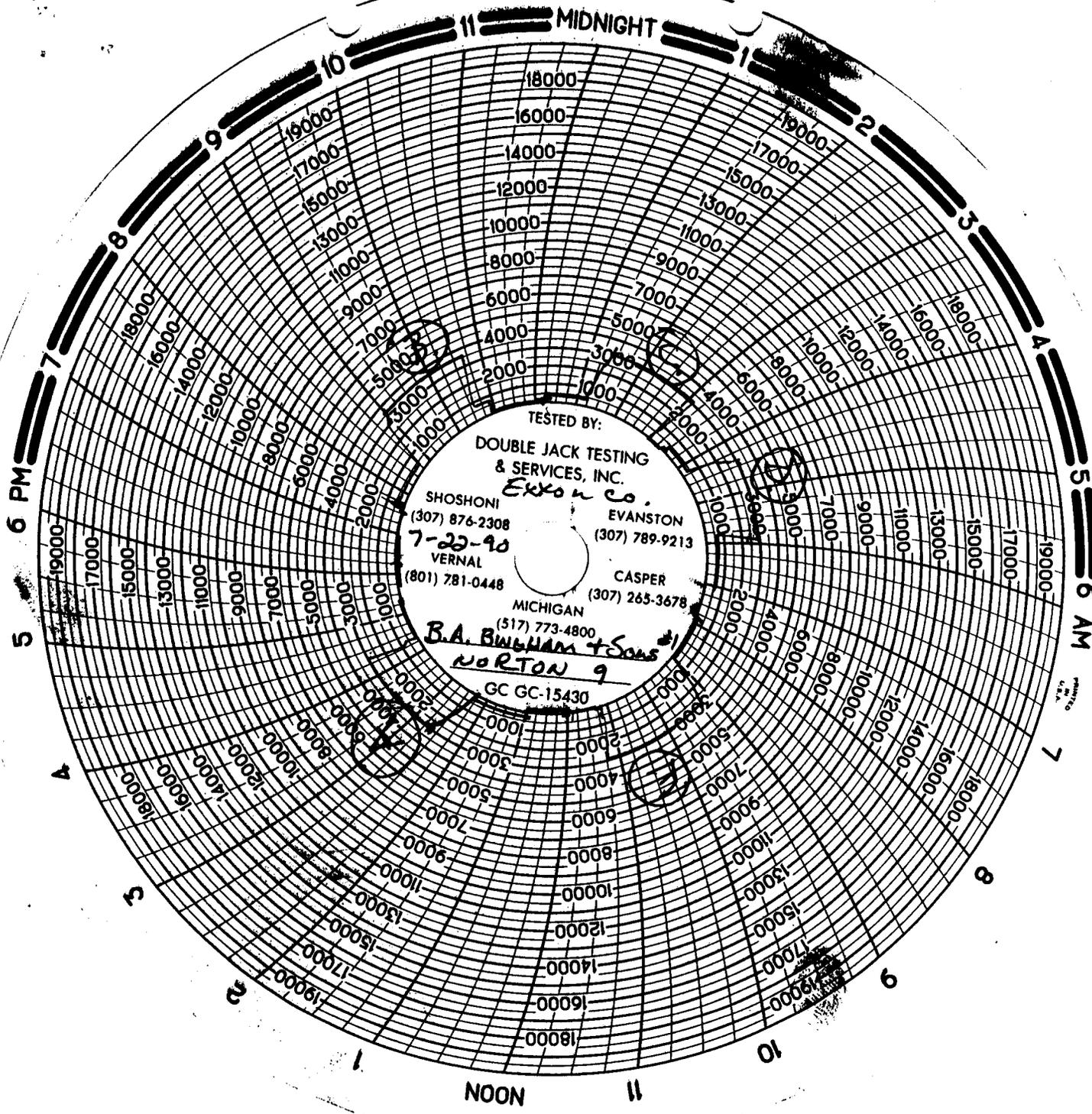
DOUBLE JACK TESTING & SERVICES, INC.
 P O BOX 2097
 EVANSTON, WY. 82931-2097

PROPERTY LEASE AND WELL NAME # TEST DATE RIG NAME & #

EXXON | B.A. BINGHAM + SONS #1 | 7-22-90 | NORTON 9

ST #	TIME	INFORMATION
	8:15	On location at 8:15 a.m. Rig up to test manifold.
A.	8:35	1st manifold valves
B.	8:50	2nd manifold valves
C.	9:10	Super Choke
D.	9:30	THIRD MANIFOLD valves.
	9:45	WAIT ON Rig to finish MANIFLUX
	11:00	Rig up to test BOP's Clean and flush + operate rams.
	12:00	TEST BOP'S
E	12:10	PIPE RAMS, TOP. DART
F	12:30	PIPE RAMS, Bottom. DART
G	12:50	HydKill, 1st Kill, HCR, DART
N	1:20	HydKill, 2nd Kill, MANUAL choke, Dart
I	1:50	Blind Rams, 1st Kill, 1st manifold.
J	2:40	Lower Kelly
K	3:00	Upper Kelly





TESTED BY:

DOUBLE JACK TESTING
& SERVICES, INC.

Exxon Co.

SHOSHONI
(307) 876-2308

EVANSTON
(307) 789-9213

7-22-90

VERNAL
(801) 781-0448

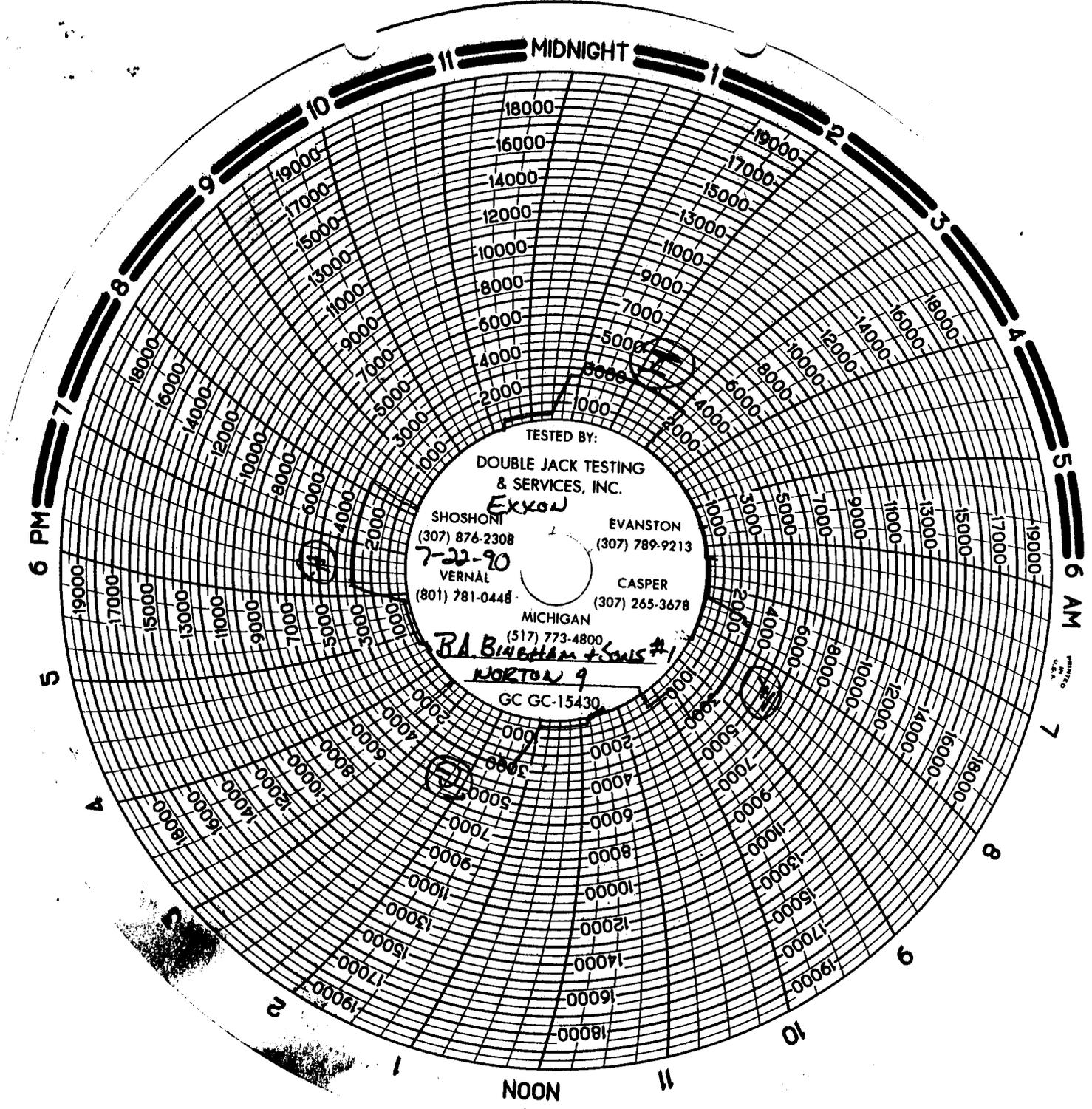
CASPER
(307) 265-3678

MICHIGAN
(517) 773-4800

B.A. Bingham & Sons

NORTON 9

GC GC-15430



TESTED BY:

DOUBLE JACK TESTING
& SERVICES, INC.

Exxon

SHOSHONI
(307) 876-2308

EVANSTON
(307) 789-9213

7-22-90

VERNAL
(801) 781-0448

CASPER
(307) 265-3678

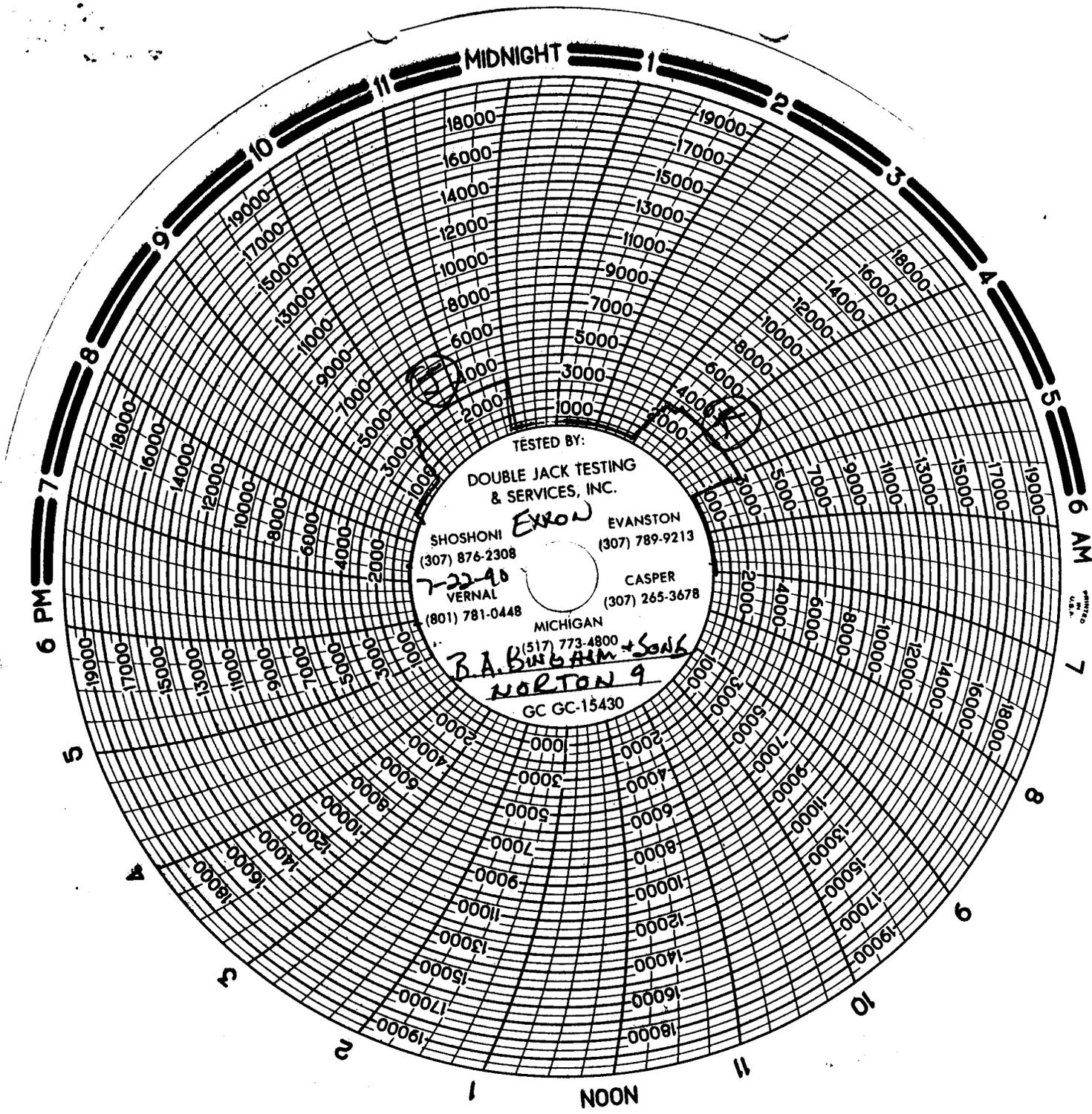
MICHIGAN

(517) 773-4800

BA BINGHAM & SONS #1

NORTON 9

GC GC-15430



TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
Exxon EVANSTON (307) 789-9213
SHOSHONI (307) 876-2308
7-22-90 CASPER (307) 265-3678
VERNAL (801) 781-0448
MICHIGAN (517) 773-4800
B.A. BURBANK & SONS
NORTON 9
GC GC-15430

MADE IN U.S.A.

DOUBLE JACK TESTING & SERVICES, INC.

B.O.P. Test Report

B.O.P. Test Performed on (date) 8-7-90

Oil Company EXXON Co. USA.

Well Name & Number B.A. BINGHAM + SONS # 1

Section 2 43-043-30295

Township 2N

Range 7E

County SUMMIT

Drilling Contractor NORTON #9

Oil Company Site Representative RED GARRETT

Rig Tool Pusher JOHN

Tested out of EVANSTON

Notified Prior to Test _____

Copies of this Test Report sent to: STATE OF UTAH
Co. REP.

Original Chart & Test Report on file at: _____
(BELOW)

Tested by: Double Jack Testing & Services, Inc.
108 Parkview Road
P.O. Box 2097
Evanston, Wyoming 82930

OIL AND GAS	
DFN	RJF
JFB	GLH
DIS	SLS
1-JLT	
2	MICROFILM ✓
3	FILE

Double Jack Testing & Service Inc.

P.O. Box 516
Shoshoni, WY 82649
(307) 876-9390

FIELD TICKET 8211

NORTON #9

RIG NAME & NO.

B.A. BINGHAM & Sons #1
WELL NAME & NO.

8-7-90

DATE EXXON USA

OPERATOR SUMMIT UTAH

COUNTY ROPS KERRY STATE MANIFOLD

SECTION 2

TOWNSHIP 2N

RANGE 7E

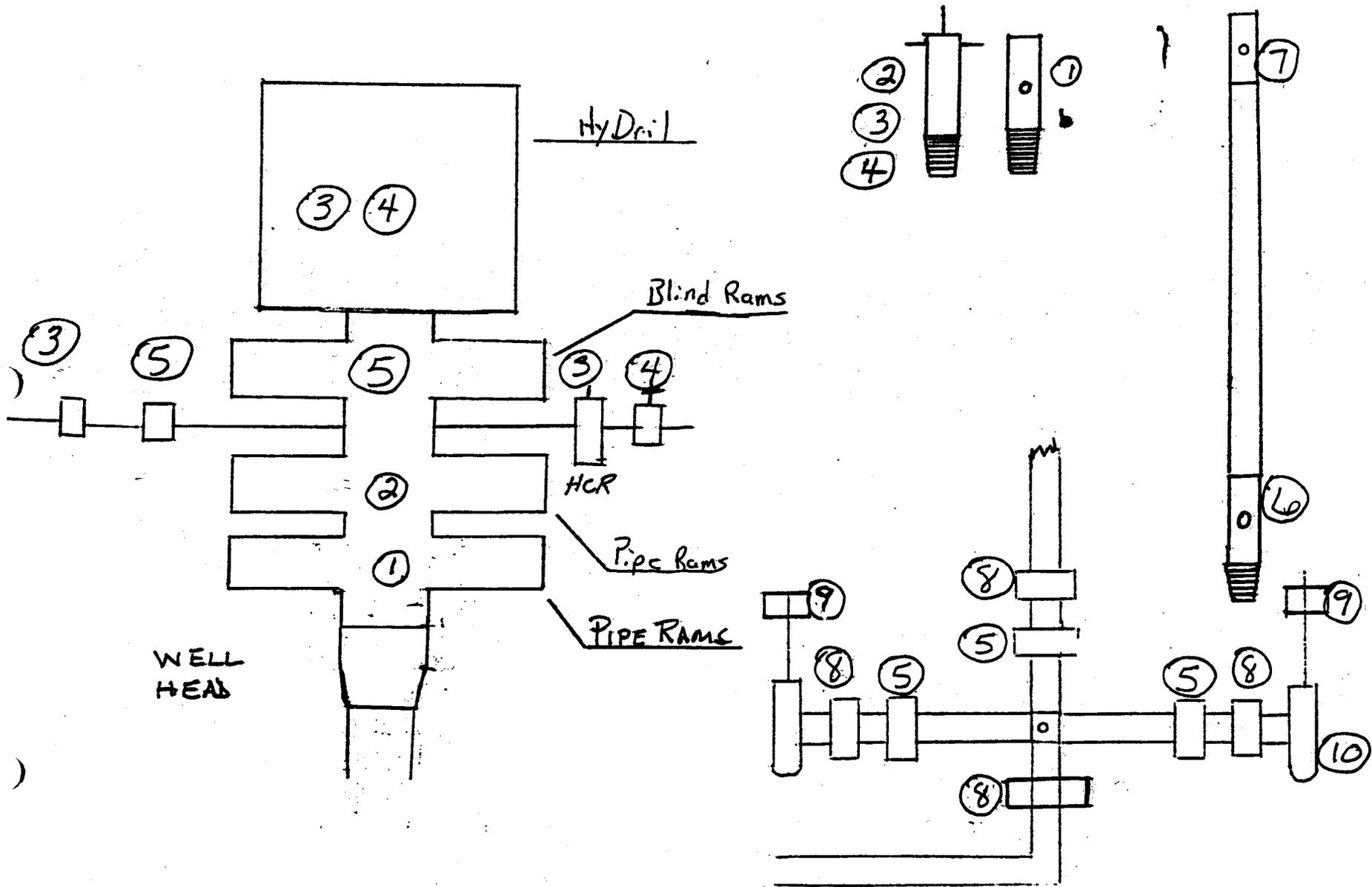
ITEMS TESTED

	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES		
Top Pipe Rams	<u>300</u>	<u>5 min</u>	<u>3000</u>	<u>10 min</u>	Closing Unit Psi <u>2900</u>	
Bottom Pipe Rams					Closing Time of Rams <u>6 Sec.</u>	
Blind Rams					Closing Time of Annular <u>12 Sec.</u>	
Annular B.O.P.					Closed Casing Head Valve <u>yes</u>	
Choke Manifold					Set Wear Sleeve <u>none</u>	
Choke Line		COMMENTS				
Kill Line						
Super Choke						
Upper Kelly						
Lower Kelly						
Floor Valve						
Dart Valve						

ADDITIONAL TESTS & COMMENTS:

Thank you for your help
RIG CREW

TEST PLUG 10" WKM
RET. TOOL
TOP SUB. 4 1/2 IF
KELLY SUB. 4 1/2 IF
X-OVER SUB. 4 1/2 XH PID to 4 1/2 IF RIX

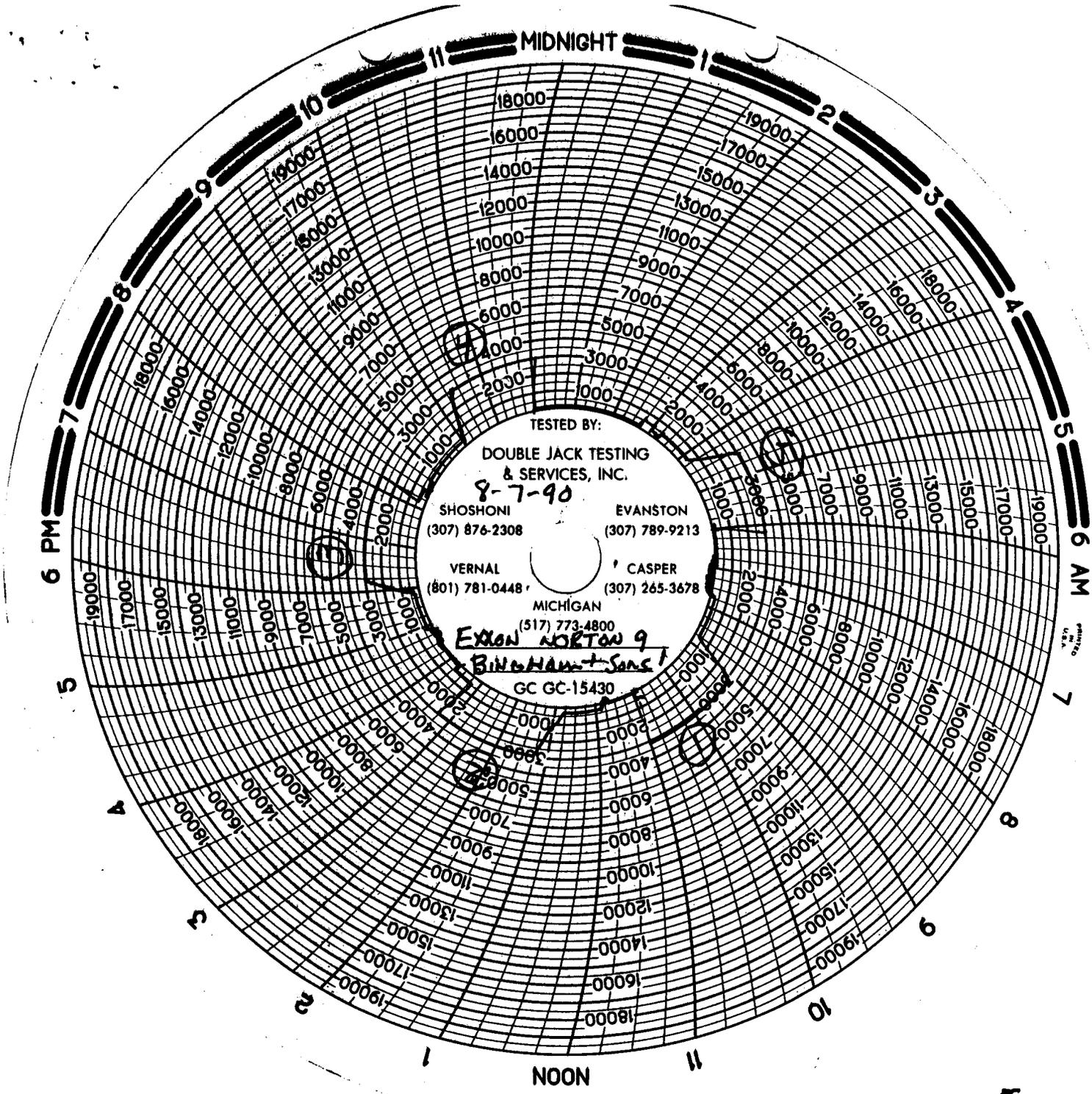


DOUBLE JACK TESTING & SERVICES, INC.
 P O BOX 2097
 EVANSTON, WY. 82931-2097

COMPANY LEASE AND WELL NAME # TEST DATE RIG NAME & #

EXXON | B.A. BINGHAM + SONS #1 | 8-7-90 | NORTON #9

ST #	TIME	INFORMATION
	11:30	Rig Up + STARTING TO TEST AT 11:30
①	11:40	Bottom Pipes, TIW.
②	11:55	TOP PIPES, DART VALVE 11:55
③	12:15	Hydril, DART, HCR, 2nd Kill valve
④	12:35	Hydril, DART, manual choke Rig joint down to test Blinds
⑤	1:05	Blinds, 1st Kill valve, 1st manifold valves
⑥	1:30	Lower Kelly - (Have trouble with test sub.)
⑦	2:30	Upper Kelly. Rig down Kelly, pull test plug + test rest of manifold.
⑧	2:45	2nd manifold
⑨	3:05	3rd manifold
⑩	3:30	Super Choke



TESTED BY:

DOUBLE JACK TESTING
& SERVICES, INC.

8-7-90

SHOSHONI
(307) 876-2308

EVANSTON
(307) 789-9213

VERNAL
(801) 781-0448

CASPER
(307) 265-3678

MICHIGAN

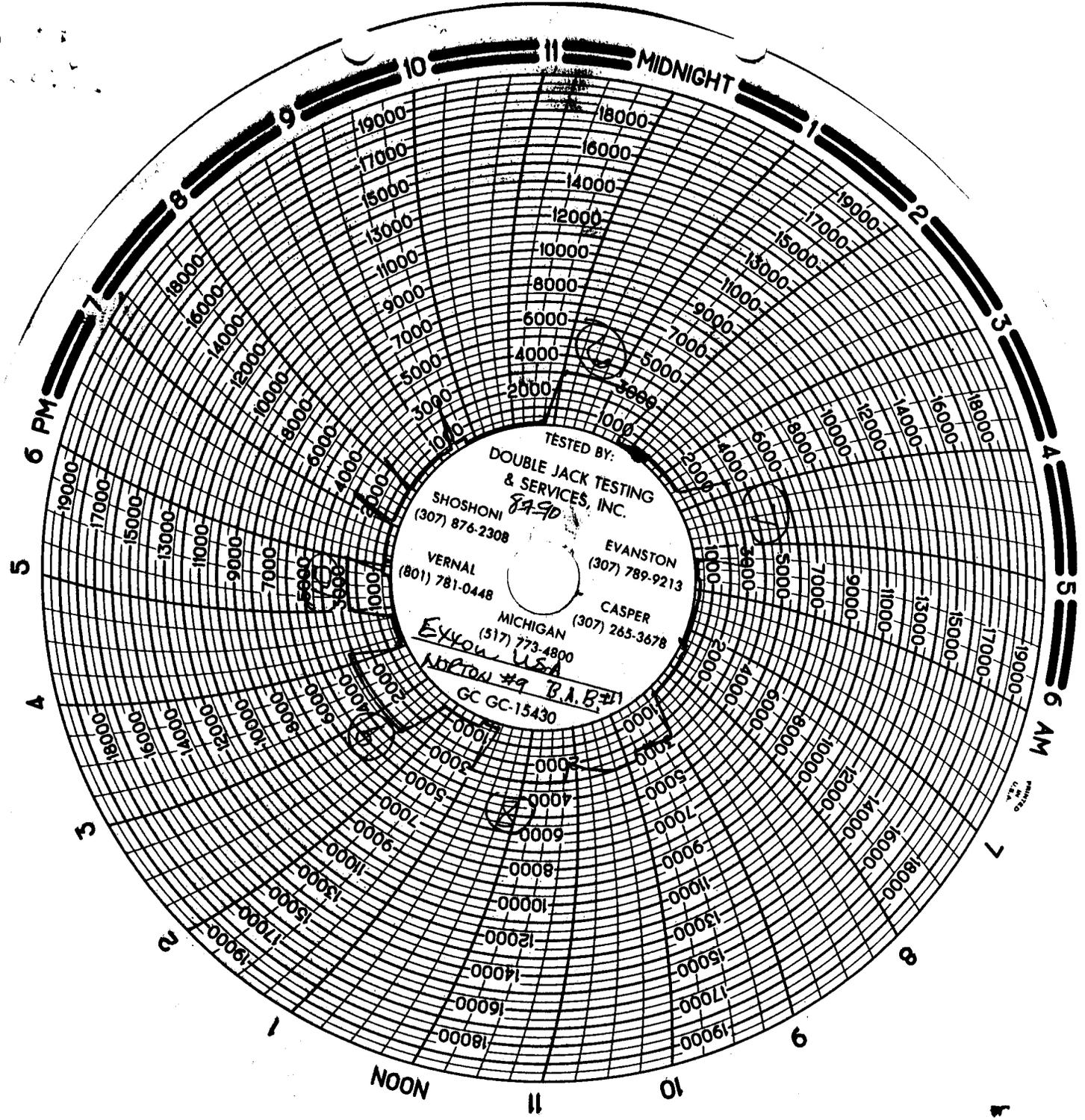
(517) 773-4800

Exxon Norton 9

BINH HANG SANG I

GC GC-15430

MADE IN U.S.A.



TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
87-90

SHOSHONI (307) 876-2308	EVANSTON (307) 789-9213
VERNAL (801) 781-0448	CASPER (307) 265-3678
MICHIGAN (517) 773-4800	

Exxon USA
MICHIGAN #9 B.A.B.#1
GC GC-15430

PRINTED
IN U.S.A.

DOUBLE JACK TESTING & SERVICES, INC.

B.O.P. Test Report

43-043-30295 DRV

RECEIVED

SEP 05 1990

DIVISION OF OIL, GAS & MINING

B.O.P. Test Performed on (date) 8/24/90

Oil Company Exxon U.S.A

Well Name & Number B.A. Binaham #1

Section 2

Township 2N

Range 7E

County Summit Ut.

Drilling Contractor Morton #9

Oil Company Site Representative Heruy McPeck

Rig Tool Pusher John Morrow

Tested out of Evanson WY

Notified Prior to Test _____

Copies of this Test Report sent to: Exxon

state of Utah

Original Chart & Test Report on File at: _____

Tested by: Double Jack Testing & Services, Inc.
108 Parkview Road
P.O. Box 2097
Evanson, Wyoming 82930

OIL AND GAS	
DFN	RJF
JPB	GLH
DIS	SLS
1-JJT	
2-	MICROFILM
3-	FILE

COMPANY

LEASE AND WELL NAME #

DATE OF TEST

RIG # AND NAME

Exxon

B.A. Bingham #1

8/24/90

Norton #9

ST# TIME

①	9:50-9:55	1 st set of Manifold Valves	
	9:55-10:05	300 psi 5 min.	3000 psi 10 min.
②	10:15-10:20	2 nd set of Manifold Valves	
	10:25-10:35	300 psi 5 min.	3000 psi 10 min.
③	10:45-10:50	3 rd set of Manifold Valves	
	10:50-11:00	300 psi 5 min.	3000 psi 10 min.
④	10:05-11:10	4 th set of Manifold Valves	
	10:10-11:20	300 psi 5 min.	3000 psi 10 min.
⑤	12:00-12:05	Lower Pipe Rams, T.I.W.	
	12:05-12:15	300 psi 5 min.	3000 psi 10 min.
⑥	12:30-12:35	Top Pipe Rams, Dart Floor Valve	
	12:35-12:45	300 psi 5 min.	3000 psi 10 min.
⑦	12:50-12:55	HyDol, H.C., inside Kill	
	12:55-1:05	300 psi 5 min.	3000 psi 10 min.
⑧	1:10-1:15	HyDol, outside Kill, outside choke	
	1:15-1:25	300 psi 5 min.	3000 psi 10 min.
⑨	1:40-1:45	Blind Rams, Super choke	
	1:45-1:55	300 psi 5 min.	3000 psi 10 min.
⑩	2:00-2:05	T.I.W. Floor Valve	
	2:05-2:15	300 psi 5 min.	3000 psi 10 min.
⑪	2:20-2:25	Lower Kelly	
	2:25-2:35	300 psi 5 min.	3000 psi 10 min.
⑫	2:50-2:55	Upper Kelly	
	2:55-3:05	300 psi 5 min.	3000 psi 10 min.

Double Juk Testing & Services Inc.

P.O. Box 516
Shoshoni, WY 82649
(307) 876-9390

FIELD TICKET 8221

Norton #9
RIG NAME & NO.
B.A. Bingham #1
WELL NAME & NO.

DATE 8/24/90

OPERATOR Exxon USA

COUNTY Summit STATE Utah

SECTION 2

TOWNSHIP 2N

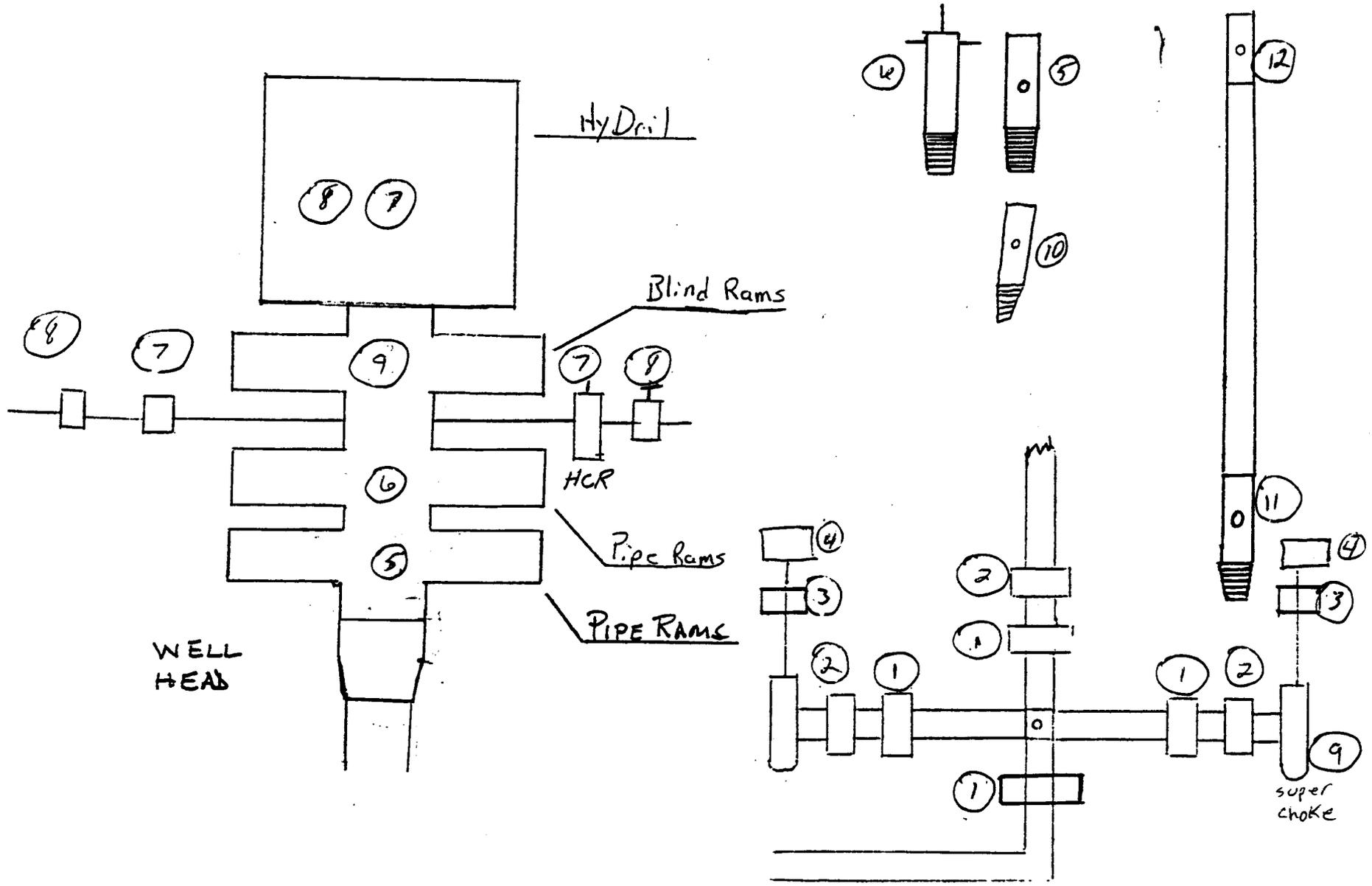
RANGE 7E

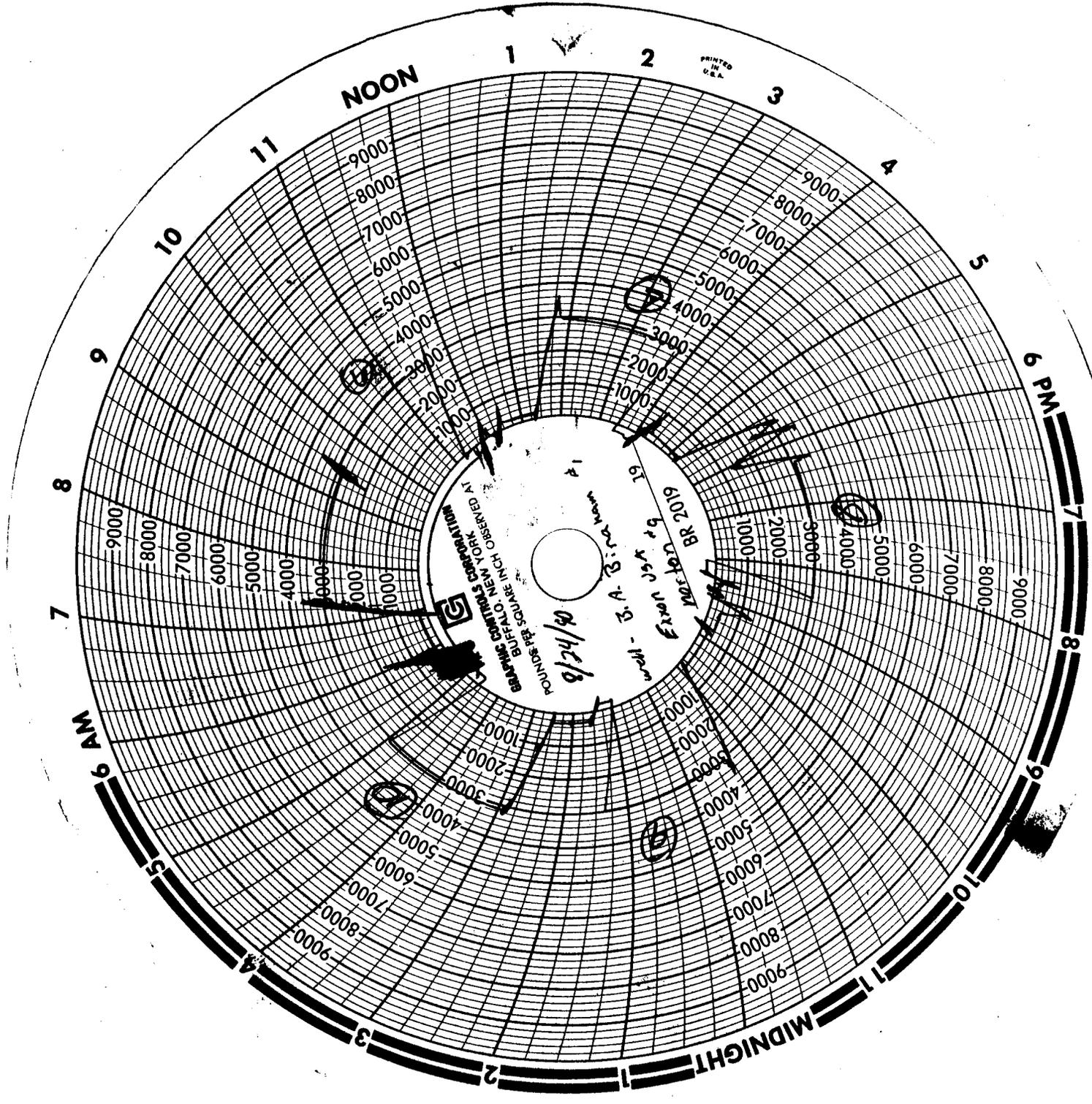
ITEMS TESTED

ITEMS TESTED	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES	
Top Pipe Rams	<u>300</u>	<u>10 min.</u>	<u>3000 psi</u>	<u>10 min.</u>	Closing Unit Psi <u>2900 psi</u>
Bottom Pipe Rams	<u>300 psi</u>				Closing Time of Rams <u>6 sec</u>
Blind Rams					Closing Time of Annular <u>12 sec</u>
Annular B.O.P.					Closed Casing Head Valve <u>yes</u>
Choke Manifold					Set Wear Sleeve <u>none</u>
Choke Line					COMMENTS
Kill Line					
Super Choke					
Upper Kelly					
Lower Kelly					
Floor Valve					
Dart Valve					

ADDITIONAL TESTS & COMMENTS:

TEST PLUG 10" WKM
RET. TOOL 4 1/2 I F
TOP SUB. 4 1/2 I F
KELLY SUB. 4 1/2 I F
X-OVER SUB. 4 1/2 I F Box 4 1/2 Choke Pin





STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
BOPE TEST INSPECTION FORM

COMPANY: Exxon Inc REPRESENTATIVE: Heruy McPeet
John McLaine

WELL NAME: Bingham & Sons Inc #1 API# 43-043-30295

QTR/QTR NW/NW SECTION 2 WELLSIGN TWP 2N RANGE 7E

INSPECTOR: John BARRIER DATE: 9-7-90

DRILLING CONTRACTOR Norton Drilling RIG # 9

RIG OPERATIONS: Prep to Test BOPE

DEPTH 11,089 LAST CASING 10 3/4 @ 2020

TEST BY Double Jack WATER MUD

PRESSURE RATING OF STACK 3000 H2S RATED YES

TEST PRESSURES 300 / 3000 KELLYCOCK: UPPER LOWER

INSIDE BOP FULL OPENING VALVE ON FLOOR

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. Drly Head
2. Annular (Hydrol)
3. Rams - Blind
4. Mud Cross
5. Rams - 5" Pipe
6. Rams 5" pipe well head

ADDITIONAL COMMENTS: All OK

REPORTED BY: Heruy McPeet PHONE: 336-5860

DATE: 9-7-90 SIGNED: [Signature]

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

ON location @ 11:00 AM left location @ 5:00 PM

Double Jack Testing & Services Inc.

P.O. Box 516
Shoshoni, WY 82649
(307) 876-9390

FIELD TICKET 8226
Norton 9

RIG NAME & NO. BA. B. Bingham #1
WELL NAME & NO.

DATE 9-7-90

OPERATOR EXXON USA

COUNTY Summit STATE WY

B.O.P.s Kelly Choke manifold SECTION 2 TOWNSHIP 7N RANGE 7E

ITEMS TESTED	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES	
Top Pipe Rams	300	3 MIN	3000	3 MIN	Closing Unit Psi 2900
Bottom Pipe Rams	300	3 MIN	3000	3 MIN	Closing Time of Rams 7 sec
Blind Rams	300	3 MIN	3000	3 MIN	Closing Time of Annular 12 sec
Annular B.O.P.	300	3 MIN	3000	3 MIN	Closed Casing Head Valve 405
Choke Manifold	300	3 MIN	3000	3 MIN	Set Wear Sleeve NONE
Choke Line	300	3 MIN	3000	3 MIN	COMMENTS
Kill Line	300	3 MIN	3000	3 MIN	
Super Choke	300	3 MIN	3000	3 MIN	
Upper Kelly	300	3 MIN	3000	3 MIN	
Lower Kelly	300	3 MIN	3000	3 MIN	
Floor Valve	300	3 MIN	3000	3 MIN	
Dart Valve	300	3 MIN	3000	3 MIN	

ADDITIONAL TESTS & COMMENTS:

TEST PLUG 10" WPM
RET. TOOL 4 1/2 IT
TOP SUB. 4 1/2 IT
KELLY SUB. 4 1/2 IT
X-OVER SUB. 2 1/2" Bit - X-11 J.D

RATES

UNIT RATES 8 hour minimum on location (11:00 AM - 5:00 PM) 700.00
ADDITIONAL 0
MILEAGE 63 miles Round trip mileage from Norton 68.00
METHANOL
OTHER

SUB TOTAL 768.00

[Signature]
CO. REP.

[Signature]
TESTED BY

TAX

TOTAL

NOTICE TO ALL CUSTOMERS

If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned agree(s) to pay in either case, reasonable expense of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE, the following information disclosure. Under the terms of our regular accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services A LATE CHARGE will be assessed when accounts are not paid when due THE LATE CHARGE is computed by a "periodic rate" 1-34% PER MONTH which is an ANNUAL PERCENT RATE OF 21% to the previous balance in the account on the billing date. No further credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held liable for damages or injury to persons or property that may be reasonably anticipated in performing the work done as set forth above.

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
SEP 24 1990
DIVISION OF
OIL, GAS & MINING

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Exxon Corp. (Regulatory Affairs - PC 3)		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1205' FNL & 888' FWL of Sec.		8. FARM OR LEASE NAME B. A. Bingham & Sons, Inc.
14. PERMIT NO. 4204330295		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6713 GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec 2, T2N, R7E
		12. COUNTY OR PARISH Summit
		18. STATE Utah

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

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

7" casing was set to 11,049' (rather than TD) and this procedure was completed 9/12/90. If well is productive at TD, a 4-1/2" to 5" LNR will be set. (see attached procedure)

OIL AND GAS	
DFN	RJF
JPB	GLM
DIS	SLS
LDMEY	
2 -	MICROFILM <input checked="" type="checkbox"/>
2 -	FILE

18. I hereby certify that the foregoing is true and correct
 SIGNATURE Alex M. Correa TITLE Administrative Specialist DATE 9-20-90
 915-688-7532

(This space for Federal or State office use)

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

B.A. Bingham & Sons, Inc. #1
 Section 2, T2N, R7E
 Summit Co., Utah

Sundry Notice Attachment

4. Auxiliary Equipment and Casing Program:

B. Casing:

Run 7" x 7 3/4" casing to a TD of 11049' and set in the Ankareh formation.

Actual casing run:

<u>String</u>	<u>Size-in./Wt.-ppf/Gr/Conn</u>	<u>Depth Interval,Ft.</u>
Intermediate	7 / 29 /L80/BT	0' - 3,392'
	7 / 29 /L80/LTC	3,292' - 7,189'
	7 / 29 /N80/LTC	7,189' - 7,233'
	7 / 32 /L80/LTC	7,233' - 8,055'
	7-3/4/ 46.1 /C95/LTC	8,055' - 8,490'
	7 / 32 /L80/LTC	8,490' - 8,724'
	7 / 32 /N80/LTC	8,724' - 11,049'

(Note: Stage Cementing tool set at 9,716 ft.)

Drilling will continue to previously permitted depth, with a 6" - 5 7/8" hole size (depending on bit availability). If judged productive at TD, a 4-1/2" to 5" liner will be run from TD to approximately 500 ft. above the 7" casing shoe, and will be cemented in place with enough cement to bring the cement top approximately 200'-300' above the liner top. The liner top will then be drilled out and pressure tested.

C. Cement:

Cement in two stages as follows:

- a. First stage - 375 sacks of Class "G" + 0.3% D65 (dispersant)
 + 0.2 % D800 (retarder).

Top Of Cement = 9,715'.

- b. Second stage - Lead Slurry consisting of 975 sacks of Class "G"
 "light" (65:35:6) (G:Poz:Gel) + 0.2% D13 (retarder).
 Tail Slurry consisting of 956 sacks of Class "G"
 + 0.3% D65 (dispersant) + 0.1% D800 (retarder).

Top of cement = 5,000'.

(Note: All casing and cement meets or exceeds requirements previously approved for either production casing set at TD or contingency intermediate casing set at approx. 8,800 ft. Contingency intermediate casing was required, only at a deeper depth than anticipated.)

Double Back Testing & Services Inc.

176

9-13-90

P.O. Box 516
Shoshoni, WY 82640

FIELD TICKET 8204

DATE EXXON USA

RECEIVED
SEP 24 1990

NORTON #9

OPERATOR SUMMIT Mt.

RIG NAME & NO. B.A. BINGHAM + SONS #1

COUNTY BOYS KELY STATE Montana

SECTION 2 DIVISION OF OIL, GAS & MINING TOWNSHIP 2N RANGE 7E

ITEMS TESTED

	LOW TEST PSI	TIME HELD MINUTES	OIL, GAS & MINING HIGH TEST PSI	TIME HELD MINUTES	
Top Pipe Rams	500	6 min	5000	10 min	Closing Unit Psi <u>2950</u>
Bottom Pipe Rams	500		5000		Closing Time of Rams <u>4 sec.</u>
Blind Rams	500		5000		Closing Time of Annular <u>12 sec.</u>
Annular B.O.P.	500		5000		Closed Casing Head Valve <input checked="" type="checkbox"/>
Choke Manifold	500		5000		Set Wear Sleeve <u>no</u>
Choke Line	500		5000		
Kill Line	500		5000		
Super Choke	300		5000		
Upper Kelly	300		5000		
Lower Kelly	300		5000		
Floor Valve	500		5000		
Dart Valve	300	5000			

COMMENTS
Change out 4 1/2
rams to 3 1/2
rams.

ADDITIONAL TESTS & COMMENTS:

TEST CASING TO 3500 PSE For 30 min.

(1) Restrict valve between Super choke and 1st manifold valve. 200 psi loss in 10 min. NORTON will repair or replace.

Started working at 2:00 pm.

Unit # 109

Leave location at 9:00 am.

TEST PLUG	<u>7 1/2 out</u>
RET. TOOL	
TOP SUB.	<u>3 1/2 IF</u>
KELLY SUB.	<u>3 1/2 IF</u>
X-OVER SIA	

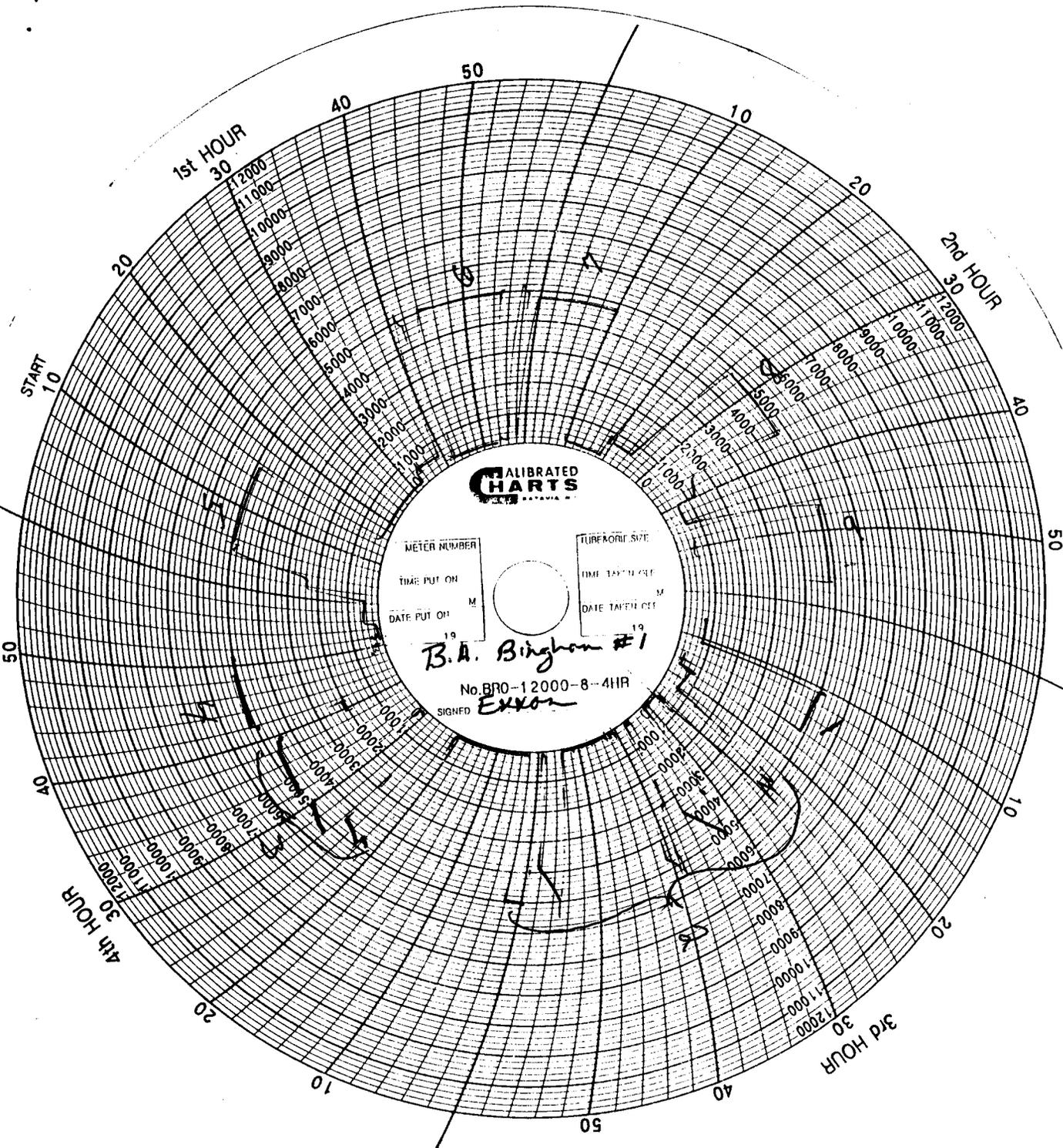
COMPANY EXXON USA	LEASE AND WELL NAME # B.A. BINGHAM + SONS #1	DATE TEST 9-13-90	RIG # AND NAME NORTON #9
-------------------------	---	----------------------	-----------------------------

#	TIME	
①		FIRST MANIFOLD VALVES
②		SECOND MANIFOLD VALVES
③		SUPER CHOKE
④		THIRD MANIFOLD VALVES
⑤		BLIND RAMS, FIRST MANIFOLD VALVES, FIRST KILL
⑥		BOTTOM 3 1/2" PIPE RAMS. TIW
⑦		TOP 3 1/2" PIPE RAMS. DART
⑧		HYDRIL, SECOND KILL, HCR
⑨		HYDRIL, SECOND KILL, MANUAL CHOKE
⑩		RETEST, SUPER CHOKE.
⑪		7" CASING 3500 FOR 30 MIN.
⑫		LOWER KELLY
⑬		UPPER KELLY

RECEIVED
SEP 24 1990

DIVISION OF
OIL, GAS & MINING

RECEIVED
SEP 24 1990



**CALIBRATED
CHARTS**
SINCE 1924

METER NUMBER

TURBOCOP SIZE

TIME PUT ON

TIME TAKEN OFF

DATE PUT ON

DATE TAKEN OFF

B.A. Bingham #1

No. BRO-12000-8-4HR

SIGNED *Exxon*

EXXON COMPANY, U.S.A.

POST OFFICE BOX 4778 • HOUSTON, TEXAS 77210-4778

RECEIVED
NOV 09 1990
ONSHORE DIVISION LAND

EXPLORATION DEPARTMENT
ONSHORE DIVISION

November 2, 1990

B. A. Bingham & Sons Inc.
Well No. 1
Section 2: NW/4
T-2-N, R-7-E
Summit County, Utah

Union Pacific Resources Company
P.O. Box 7
Fort Worth, Texas 76101-0007

Attention: Mr. Richard Glenney, Landman

Gentlemen:

This letter will advise that Exxon and Equity Oil Company have elected to plug and abandon the captioned well having reached a total depth of 12,702 feet. Under the terms of the farmout from Union Pacific, Exxon and Equity hereby offer to Union Pacific and its co-working interest owners in said well, the opportunity to take the well over for additional operations.

Please call Mr. S. W. Allison (713/775-7681) or Mr. G. B. Lee (713/775-7644) as to whether you wish to take over the captioned well; following which please execute a copy of this letter and return it to my attention.

Sincerely,

A. E. Wilson
A. E. Wilson

AEW:sm

Union Pacific Resources Company
(elects) ~~(declines)~~ to take over the
subject well for additional operations.

UNION PACIFIC RESOURCES COMPANY ("UPRC")

By: *R. E. Blaney* - as previously advised by UPRC return fax of 11/2/90.

Date: 11/6/90

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.)

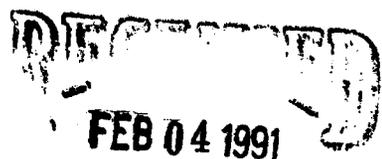
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Exxon Corp. Attn: Alex M. Correa		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, Texas 79702 (915) 688-7532		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1205' FNL & 888 FWL of Sec.		8. FARM OR LEASE NAME B. A. Bingham & Sons, Inc.
14. PERMIT NO. 43 4204330295 <i>del</i>	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6713 GR	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2, T2NR7E
		12. COUNTY OR PARISH Summitt
		13. STATE Utah

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

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

5" LNR 10506'-12687'. Cmt plug #1 @ 11740 w/cmt. plug #2 @ 11070' w/50 sks cmt. (21' above top of LNR & 35' below proposed completion zone). Pulled tubing & installed wellhead cap. Well turned over to Union Pacific Resources. Dan Jarvis verbally approved plug procedure 11/2/90. Work completed 11/5/90.



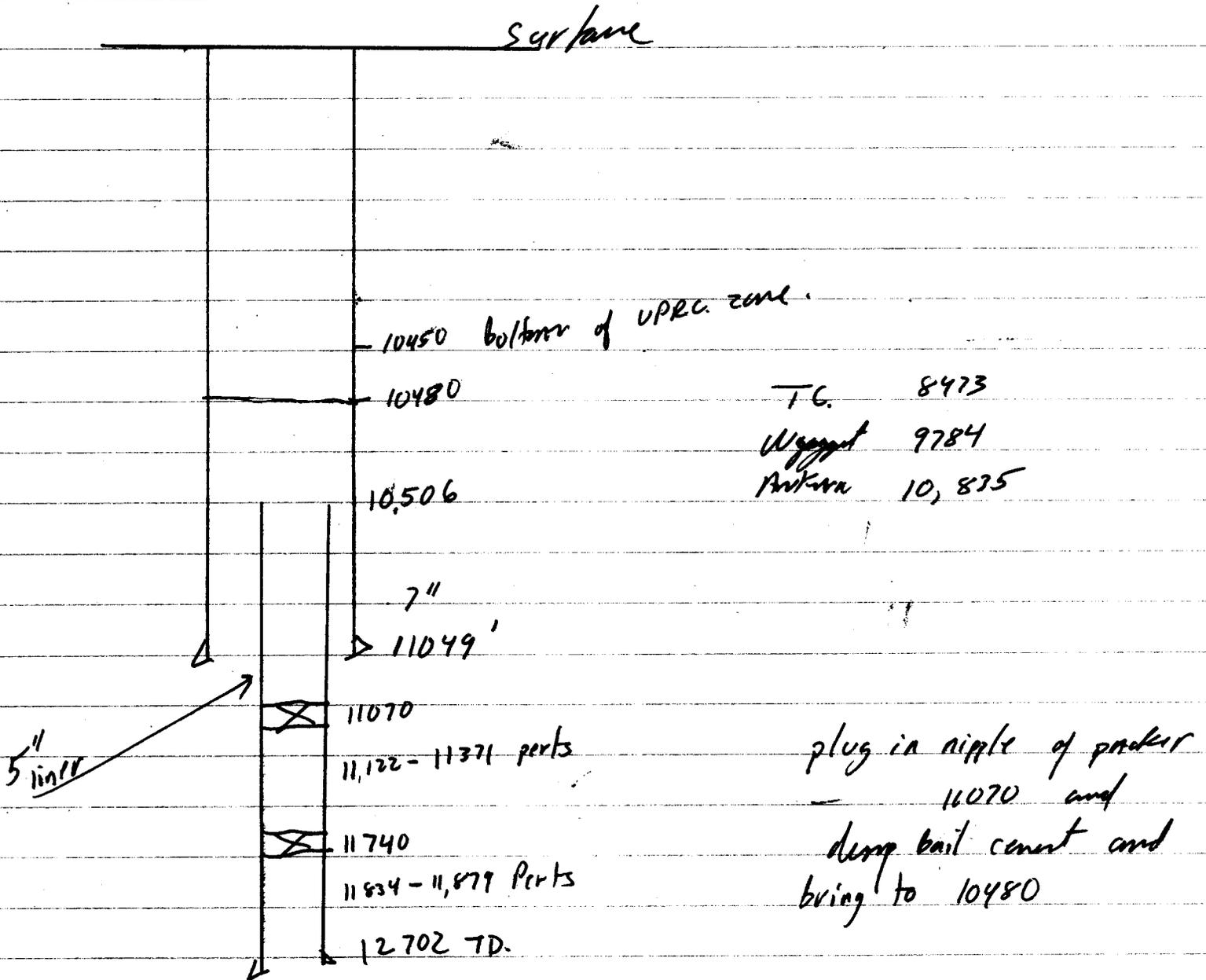
18. I hereby certify that the foregoing is true and correct
SIGNED Alex M. Correa TITLE Administrative Specialist DATE 1/9/91

(This space for Federal or State office use)

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

Bingham #1 Exxon
George Medley 915-688-7874

Sec 2 T2N. R7E Summit



10/4/90

George Medley
Exxon
(915) 688-7874

EXXON Corp.

B. A. Bingham #1

Sec 2, T2N R7E Summit
Fee lease - (Farmont) - UPRC

TD. 12,708'

Logging.

Probably P&A. or possibly
by agreement, UPRC may take
well over for completion.

7" casing @ 11049' (Ankarch fm.)
x 7 3/4" contd. (staged) *

✓ TOC @ 5000' (±) ←
(9.1-9.2 gal mud)

5000' ✓

10 3/4" casing @ 2020'

2020' ✓

contd to surface

show: @ 11,170' - 11,230' Ad.-incr./gas
@ 11,300' - 11,320' -

① 11,320' (±) - up + 30% excess
Class G - 75 sks ✓

② Prness salt. - 8253'
7 3/4" case 8055 - 8490'

8055' - 7771' (±)
50 sks. Class G.

③

570' - up,
(inside 7")

50. SKS.

④

215' - up
(inside 7")

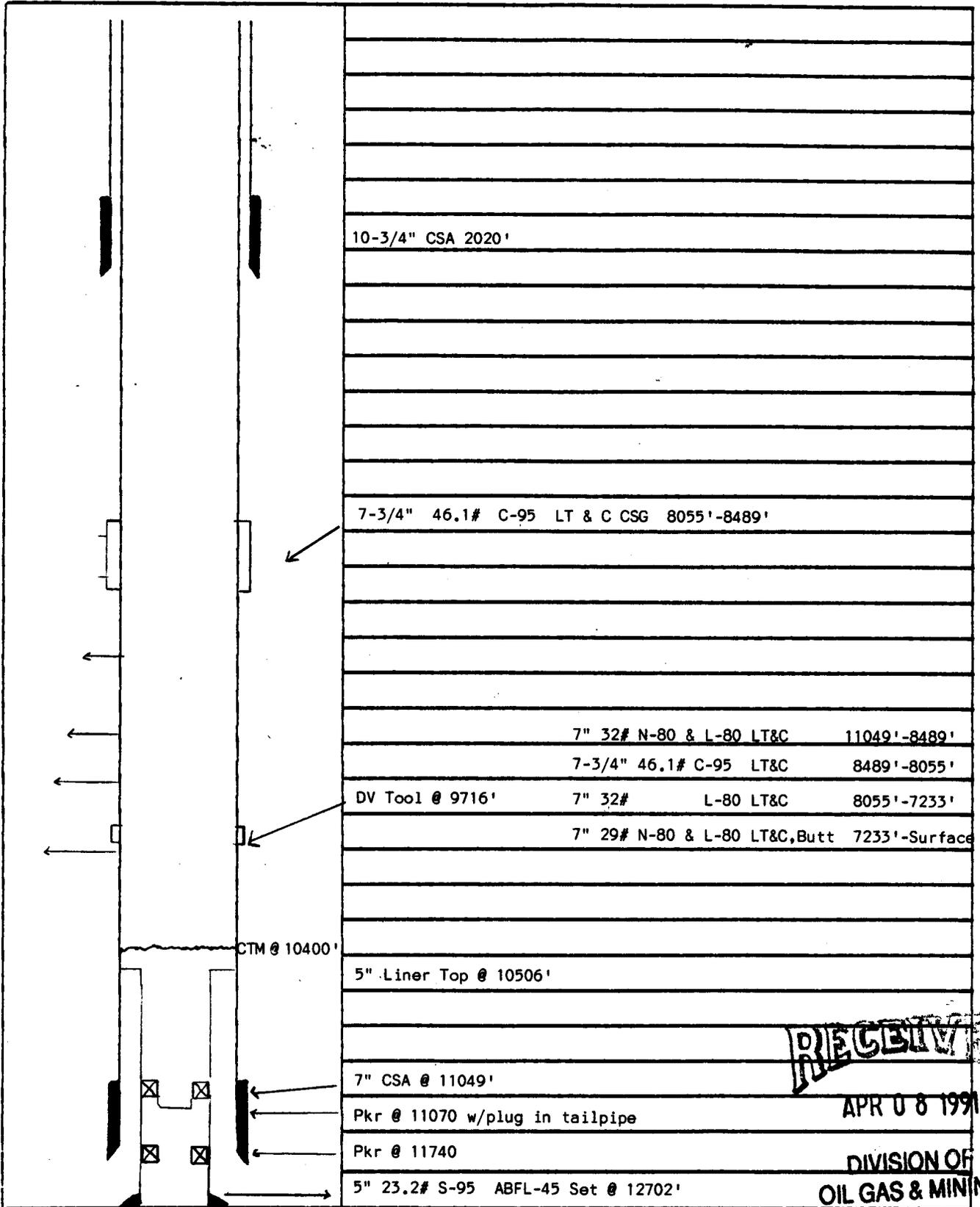
50 SKS.

⑤

⑤ Surface - 30'±, plug inside and
out-side (annulus 7" x 10^{3/4}").

WELLBORE DIAGRAM

Location 1205 'FNL 888 'FWL Sec. 2 T. 2N R. 7E Well No. B.A. Bingham & Sons #1
 State Utah County Sommit API No. _____ Field Pineview
 Spud _____ Comp. _____ WI _____ NRI _____ Lease _____
 KB 6732 GR 6708 TD _____ PBD ≈ 10400' Formation _____



RECEIVED

APR 08 1991

DIVISION OF OIL GAS & MINING

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee	
2. NAME OF OPERATOR Exxon Corp. Attn: Alex M. Correa		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, Texas 79702 (915) 688-7532		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1205' FNL & 888 FWL of Sec.		8. FARM OR LEASE NAME B. A. Bingham & Sons, Inc	
14. PERMIT NO. 43 204330295		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6713 GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2, T2NR7E	
		12. COUNTY OR PARISH Summitt	13. STATE Utah

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

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

On 11/6/90 Union Pacific Resources elected to take over the subject well for additional operations.

* 910401 Eff. 12-17-90 / AI Correa - Exxon. *jk*

FEB 04 1991

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

SIGNED

Alex M. Correa

Alex M. Correa

TITLE Administrative Specialist

DATE 1/29/91

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

February 14, 1991

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Gentlemen:

Re: Cause No. UIC-128

Enclosed is a Notice of Agency Action before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Romero".

Lisha Romero
Administrative Analyst
Oil and Gas

djj
Enclosure
HOI5/3

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION & SERIAL NO. FEE
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR — UNION PACIFIC RESOURCES COMPANY ATTN: Joy L. Prohaska		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 7 - MS 3407 Fort Worth, Texas 76101-0007 817/877-7956		8. FARM OR LEASE NAME B. A. Bingham & Sons, Inc.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1205' FNL & 888' FWL At proposed prod. zone		9. WELL NO. 1
14. API NO. 43-043-30295		10. FIELD AND POOL, OR WILDCAT Wildcat
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6713' GL		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA NW NW Sec. 2-T2N-R7E
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data		12. COUNTY Summit
13. STATE Utah		

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Change of Operator</u> <input checked="" type="checkbox"/>	
(Other)		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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.)

* Must be accompanied by a cement verification report.

Please change the operator on the referenced well from Exxon Corporation to Union Pacific Resources Company effective December 17, 1990.

OLD OPERATOR

Exxon Corporation
P. O. Box 1600
Midland, Texas 79702

NEW OPERATOR

Union Pacific Resources Company
P. O. Box 7 - MS 3407
Fort Worth, Texas 76101-0007
Attn: Joy L. Prohaska

RECEIVED

MAR 27 1991

DIVISION OF
OIL GAS & MINING

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

SIGNED Joy L. Prohaska TITLE Regulatory Analyst DATE 3-22-91
 JOY L. PROHASKA

(This space for Federal or State office use)

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

See Instructions On Reverse Side

1-LCR	<i>file</i>
2-DPS	<i>DTS</i>
3-VLC	<i>✓</i>
4-RJF	<i>✓</i>
5-RWM	<i>7/1</i>
6-LCR	<i>file</i>

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
- Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-17-90)

TO (new operator)	<u>UNION PACIFIC RESOURCES CO.</u>	FROM (former operator)	<u>EXXON CORPORATION</u>
(address)	<u>P. O. BOX 7, MS 3408</u>	(address)	<u>P. O. BOX 1600</u>
	<u>FORT WORTH, TX 76101-0007</u>		<u>MIDLAND, TX 79702</u>
	<u>phone (817) 877-6000</u>		<u>phone (915) 683-0101</u>
	<u>account no. N 9465</u>		<u>account no. N0420</u>

Well(s) (attach additional page if needed):

Name: <u>B.A. BINGHAM & SONS #1</u>	API: <u>4304330295</u>	Entity: <u>11097</u>	Sec <u>2</u> Twp <u>2N</u> Rng <u>7E</u>	Lease Type: <u>FEE</u>
Name: <u>(DRL)</u>	API: _____	Entity: _____	Sec ___ Twp ___ Rng ___	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec ___ Twp ___ Rng ___	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec ___ Twp ___ Rng ___	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec ___ Twp ___ Rng ___	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec ___ Twp ___ Rng ___	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- file* 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(2-4-91)*
- file* 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Reg. 3-12-91/Carol) (Rec. 3-27-91)*
- N/A* 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) If yes, show company file number: .
- N/A* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- file* 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(4-1-91)*
- file* 6. Cardex file has been updated for each well listed above.
- file* 7. Well file labels have been updated for each well listed above.
- file* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- file* 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

RECEIVED

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APR 08 1991

DIVISION OF
OIL, GAS & MINING

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 & SERIAL NO.
FEE
6. IF INDIAN ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME B. A. Bingham & Sons, Inc.
9. WELL NO. 1
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW NW Sec. 2-T2N-R7E
12. COUNTY Summit
13. STATE Utah

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER
2. NAME OF OPERATOR -UNION PACIFIC RESOURCES COMPANY
3. ADDRESS OF OPERATOR P. O. Box 7 - MS 3407 - Fort Worth, Texas 76101-0007
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1205' FNL & 888' FWL At proposed prod. zone
14. API NO. 43-043-30295 <i>dl</i>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6713' GL

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
APPROX. DATE WORK WILL START <u>Upon approval</u>		DATE OF COMPLETION _____	

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.)

NOTICE OF INTENT TO COMPLETE TO NUGGET SANDSTONE * Must be accompanied by a cement verification report.

Well Data: GLE 6708' KB 6732' TD 12697' PBDT Approximately 10400'

Surface Casing: 10-3/4" set @ 2020'

Intermediate Casing: 7" 29# & 32# N-80 & L-80, LT&C, Buttress 0-8055'

7.75" 46.1# C-95 LT&C, 8055-8489'
7" 32# N-80 & L-80, LT&C, 8489-11049'
DV Tool @ 9716'

Cement Job - 1st stage: 375 sx class "G"
2nd stage: 975 sx 65/35 POZ w/6% Gel
Tail w/956 sx class "G"

Liner: 5" 23.2# S-95 ABFL-4S 10506-12702'
Pressure tested liner top to 4000 psi w/9.4 ppg mud

(Continued on Reverse)

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

SIGNED Joy L. Prohaska TITLE Regulatory Analyst DATE 4-5-91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

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

DATE: 4-18-91
BY: [Signature]

See Instructions On Reverse Side



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

April 16, 1991

Mr. Alex M. Correa
Exxon Corporation
P.O. Box 1600
Midland, Texas 79702

Dear Mr. Correa:

Re: Notification of Sale or Transfer of Lease Interest - B.A. Bingham & Sons #1 Well,
Section 2, T. 2N, R. 7E, Summit County, Utah, API No. 43-043-30295

The division has received notification of a change of operator from Exxon Corporation to Union Pacific Resources Company for the referenced well which is located on a fee lease.

Rule R615-2-10 of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Exxon Corporation of its responsibility to notify all individuals with an interest in this lease of the change of operator. Please provide written documentation of this notification to the division no later than May 7, 1991.

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

ldc

cc: R.J. Firth
Well file

WOI201



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

April 16, 1991

Mr. Alex M. Correa
Exxon Corporation
P.O. Box 1600
Midland, Texas 79702

Dear Mr. Correa:

Re: Notification of Sale or Transfer of Lease Interest - B.A. Bingham & Sons #1 Well,
Section 2, T. 2N, R. 7E, Summit County, Utah, API No. 43-043-30295 *del*

The division has received notification of a change of operator from Exxon Corporation to Union Pacific Resources Company for the referenced well which is located on a fee lease.

Rule R615-2-10 of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Exxon Corporation of its responsibility to notify all individuals with an interest in this lease of the change of operator. Please provide written documentation of this notification to the division no later than May 7, 1991.

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

ldc

cc: R.J. Firth

WOI201



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

May 29, 1991

Mr. Alex M. Correa
Exxon Corporation
P.O. Box 1600
Midland, Texas 79702

Dear Mr. Correa:

Re: Notification of Sale or Transfer of Lease Interest - B.A. Bingham & Sons #1 Well,
Sec. 2, T. 2N, R. 7E, Summit County, Utah, API No. 43-043-30295

The division notified you by letter dated April 16, 1991 that Rule R615-2-10 of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred. You were informed of your responsibility to notify all individuals with an interest in the above wells and asked to provide written documentation of this notification to the division by no later than May 7, 1991. As of yet, we have not received the requested documentation.

If you have problems or questions concerning this request, please feel free to call me at (801)538-5340. Otherwise, please respond by June 20, 1991. Your prompt attention to this matter is appreciated.

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

ldc

cc: L.C. Romero

Well file

WO113

EXXON COMPANY, U.S.A.

POST OFFICE BOX 4778 • HOUSTON, TEXAS 77210-4778

June 12, 1991

EXPLORATION DEPARTMENT
ONSHORE DIVISION

Transfer of Interest

→ B. A. Bingham & Sons Well No. 1
T2N-R7E, Summit County, Utah
API No. 43-043-30295

Sec. 2

20 7E

A Rwm ✓
② Well File DLV

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention Mr. Don Staley
Administrative Supervisor
Oil and Gas

Gentlemen:

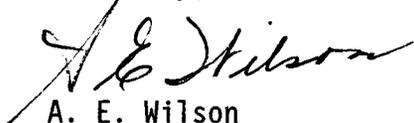
Your letters of April 16th and May 29th directed to our Midland office have been referred to the undersigned for reply. Prior to answering your inquiry I telephoned Mr. R. J. Firth who suggested that we write and explain the facts surrounding the subject transfer.

The Bingham well was drilled under farmout agreements from Union Pacific Resources and its partners as owners of the working interest in the Bingham lease. In the farmout agreement Union Pacific, as operator of the producing wells on the Bingham lease, reserved the right to take over the well in the event Exxon and its partner Equity Oil Company were unable to complete the well as a producer. Unfortunately, the well was incapable of production in the formation to which it was drilled and Exxon and Equity turned the well over to UPRC and its partners for further operations.

A copy of the Exxon letter to UPRC, countersigned by the latter and indicating its election to take over the well, is enclosed for your files.

We apologize for failing to respond to your request at an earlier date. Please let us know if anything further will be required in this matter.

Sincerely,


A. E. Wilson

AEW:rm
Enclosure

xc: Equity Oil Company

RECEIVED

JUN 17 1991

RULE R 615-5-1

- 2.1 UNION PACIFIC RESOURCES COMPANY
P. O. Box 7
Fort Worth, Texas 76101
- 2.2 See Attached (Exhibit A).
- 2.3 The B. A. Bingham & Sons #1 is presently shut in after unsuccessfully completing in the Nugget and Twin Creek. It is proposed to drillout and squeeze the Rich interval of the Twin Creek and deepen the well to 10489', and inject into the Nugget formation 9830'-72, 9896'-9906', 10130'-10146'. The project is for produced water disposal only.
- 2.4 The B. A. Bingham & Sons #1 failed to produce commercial quantities of hydrocarbons after completion attempts failed in the Nugget and Twin Creek. Completion operations were suspended and the well was shut in June, 1991.
- 2.5 Produced water will be disposed of into the Nugget formation. The Nugget formation is a sandstone. The Nugget top is 9772' MD, 9705' TVD. The well TD'd in the subthrust Preuss at 12707' MD. Nugget formation TDS is 39,000 mg/l.
- 2.6 All electrical, acoustic, and radioactive logs are on file with the State of Utah Board of Oil, Gas, and Mining.
- 2.7 The disposal fluid will consist of saltwater produced in the Pineview and Lodgepole fields. The saltwater is produced from the Nugget, Twin Creek, and Frontier formations. The maximum estimated amount of water to be injected daily is 13,000 BWPD with an average volume of 4600 BWPD.
- 2.8 See Attached (Exhibit B).
- 2.9 Union Pacific Resources Company hereby certifies that a copy of this application required under Rule R615-5-1 and R-615-5-2 has been sent to all operators, lease owners, and surface owners within one-half mile radius of subject well.

RULE R 615-5-2

- 2.0 Attached.
- 2.1 See Attached (Exhibit A).
- 2.2 All electrical, acoustic, and radioactive logs are on file with the State of Utah Board of Oil, Gas, and Mining.
- 2.3 The cement bond log should be on file with the State of Utah.
- 2.4 Please reference the above logs. If you should require further information, log copies can be forwarded to your office.
- 2.5 The existing casing program is illustrated on the attached wellbore diagrams. As shown, the casing program consists of:

7" 29# & 32" L80 & N-80 & 7 3/4" 46.1# C-95 0-11049'

The casing will be tested to a pressure of 1000 psi as outlined in R615-5-5 (2) covering the testing of an existing well newly converted to an injection well. The well will be monitored according to R615-5-5 (3.0-3.4).

- 2.6 The disposal fluid will consist of saltwater produced in the Pineview and Lodgepole fields. The saltwater is produced from the Nugget, Twin Creek, and Frontier formations. The maximum estimated amount of water to be injected daily is 13,000 BWPD with an average volume to 4600 BWPD.
- 2.7 A standard laboratory water analysis of saltwater from each producing formation, the proposed disposal formation, and a combined saltwater stream with all producing formations is attached.
- 2.8 Average proposed injection pressure = 2100 psi
Maximum proposed injection pressure = 2500 psi
- 2.9 Fracture gradients .86 psi/ft (Bingham 2-1A Nugget frac and Bingham 2-3 Nugget acid job)

Disposal volume	=	13,000 BWPD maximum , 4600 BWPD average
SG of Water	=	1.0325
Surface Pressure	=	2500 psi maximum
Average Nugget Depth	=	9988'
Tubing setting depth	=	9800' (3 1/2" internally plastic coated)

A. Fracture pressure at Nugget formation
9988' (.86 psi/ft) = 8590 psi

B. Injection pressure at Nugget formation (4600 BWPD average)

Injection pressure = Surface injection pressure +
Hydrostatic pressure - Friction pressure
= 2500 + (.433) (1.0325) (9988') - 196 = 6769'

↑
fresh H₂O

C. 8590' - 6769' - 1821 psi below fracture pressure

Therefore, the proposed injection pressure will not initiate fractures through the overlying strata that could enable the disposal well to contaminate a fresh water aquifer. The pumps are equipped with high pressure shutdowns and the wells are monitored daily to ensure the maximum pressure is not exceeded.

2.10 Nugget information

Top: 9772' MD, 9705' TVD

Lithology: Sandstone

Thickness: 9772' - 10790'

Lateral extend: Fault located +/- 2100' to North of the B. A. Bingham & Sons #1 and +/- 2300' to the Southeast. No control to determine faulting on West side of field. Existing data indicates no fault within 10,000' to the West. Present over entire field.

Confining Beds: Twin Creek

Top: 8536'

Lithology: Limestone

Thickness: 8538' - 9772' (1236' thick)

Lateral Extent: Identical to Nugget. Present over entire field.

Confining Beds: Preuss Salt

Top: 8240'

Lithology: Salt

Thickness: 8240' - 8536' (296' thick)

Lateral Extent: Present over entire field.

Confining Beds: Preuss

Top: 6042'

Lithology: Siltstone and shales

Thickness: 6042' - 8240' (2198' thick)

Lateral Extent: Present over entire field.

Confining Beds: Stump

Top: 5230'

Lithology: Sandstone and shale

Thickness: 5230' - 6042' (812' thick)

Lateral Extent: Faulted 700' to Southwest. Present over entire field.

2.11 Attachments - Mechanical condition of offsetting wellbores.

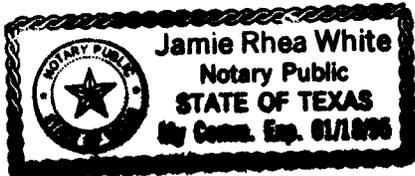
The mechanical condition of all wellbores within one-half mile radius are illustrated in the attached diagrams. The affected wells include the following:

<u>WELL NAME</u>	<u>LOCATION</u>		
Bingham 2-4	2084' FNL	2055' FWL	Sec. 2, T2N, R7E
Bingham 2-1	666' FWL	3278' FNL	Sec. 2, T2N, R7E
Bingham 2-2	646' FNL	680' FWL	Sec. 2, T2N, R7E
Bingham 42-3	1947' FNL	663' FEL	Sec. 3, T2N, R7E
UPRR 3-9	1984' FSL	660' FEL	Sec. 3, T2N, R7E

In all cases, adequate isolation exists to prevent fluid migration into improper intervals.

2.12 Union Pacific Resources Company hereby certifies that a copy of the Application for Injection Well has been sent to the surface owners, lease owners, and operators with 1/2 mile radius of the proposed well.

Before me, Jamie Rhea White, a Notary Public in and for Tarrant County, State of Texas, personally appeared Carl D. Brown and he being first duly sworn by me upon his oath, says that the facts alleged in the foregoing instrument are true.



WITNESS MY HAND AND OFFICIAL SEAL

Jamie Rhea White 1-31-92
Notary Public

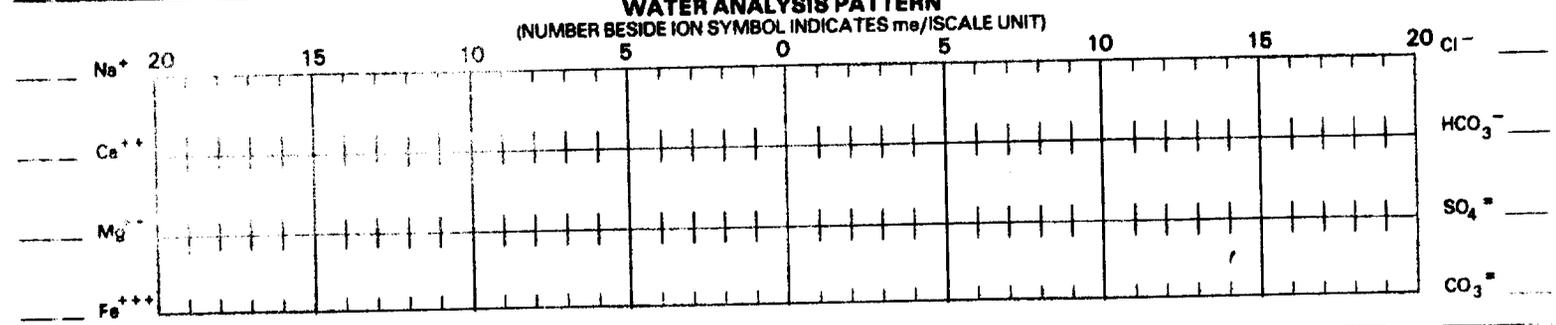
My commission expires: 1-18-95

834-0122

WATER ANALYSIS REPORT

EXXON CHEMICAL COMPANY
P.O. Box 4321 Houston, Texas 77210-4321
Tel. (713) 480-8800 Telex: 4942225 ENCEHOU

							SHEET NUMBER
COMPANY Union Pacific Res. Company						DATE 1/30/92	
FIELD Pineview				COUNTY OR PARISH Summit		STATE Utah	
LEASE OR UNIT #4-4		SAMPLE SOURCE Well Head			WATER SOURCE (FORMATION) Frontier		
DEPTH FT.	BHT, °F	SAMPLE SOURCE	TEMP., °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED 1/30/92		TYPE OF WATER: <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALTWATER DISPOSAL					
		TYPE OF PRODUCTION: <input type="checkbox"/> PRIMARY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> CO ₂ FLOOD <input type="checkbox"/> POLYMER FLOOD <input type="checkbox"/> STEAMFLOOD					



DISSOLVED SOLIDS			DISSOLVED GASES	
CATIONS	me/l	mg/l		mg/l
TOTAL HARDNESS	1.2		HYDROGEN SULFIDE, H ₂ S	
CALCIUM, Ca ⁺⁺	0.6	12	CARBON DIOXIDE, CO ₂	
MAGNESIUM, Mg ⁺⁺	0.6	7	OXYGEN, O ₂	
IRON (TOTAL) Fe ⁺⁺⁺	-0-	-0-	PHYSICAL PROPERTIES	
BARIUM, Ba ⁺⁺ /Sr	Trace	Trace	pH	7.4
SODIUM, Na ⁺ (CALC.)	1	943	Eh (REDOX POTENTIAL)	MV
ANIONS			SPECIFIC GRAVITY	
CHLORIDE, Cl ⁻	42	1500	TURBIDITY, FTU UNITS	
SULFATE, SO ₄ ⁼⁼	-0-	-0-	TOTAL DISSOLVED SOLIDS (CALC.)	3,029 mg/l
CARBONATE, CO ₃ ⁼⁼	--	--	STABILITY INDEX @ °F	
BICARBONATE, HCO ₃ ⁻	9.3	567	@ °F	
HYDROXYL, OH ⁻	--	--	@ °F	
SULFIDE, S ⁼⁼			CaSO ₄ SOLUBILITY @ °F	
			@ °F	
			MAX. CaSO ₄ POSSIBLE (CALC.)	
			MAX. BaSO ₄ POSSIBLE (CALC.)	
			RESIDUAL HYDROCARBONS	ppm

SUSPENDED SOLIDS (QUALITATIVE) IRON SULFIDE IRON OXIDE CALCIUM CARBONATE CALCIUM SULFATE ACID INSOL

REMARKS AND RECOMMENDATIONS:

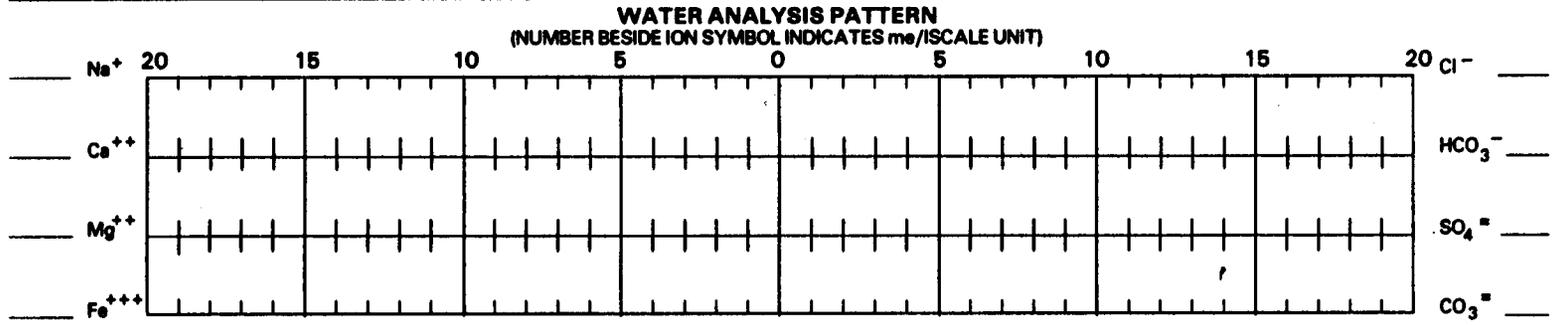
EC ENGINEER W.C Vickers	DIST NO	ADDRESS Evanston, Wyoming	OFFICE PHONE 307-789-1355	HOME PHONE
ANALYZED BY W.C Vickers	DATE 1/30/92	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> EC ENGINEER	<input type="checkbox"/> REGION	<input type="checkbox"/> DISTRICT

WATER ANALYSIS REPORT

EXXON CHEMICAL COMPANY
 P.O. Box 4321 Houston, Texas 77210-4321
 Tel. (713) 480-6800 Telex: 4942225 ENCEHOU



							SHEET NUMBER
COMPANY Union Pacific Res. Company						DATE 11/20/91	
South Fork Co2DC				COUNTY OR PARISH Summit		STATE Utah	
LEASE OR UNIT UPRR #33-1		SAMPLE SOURCE			WATER SOURCE (FORMATION)		
DEPTH FT.	BHT, °F	SAMPLE SOURCE	TEMP., °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED 11/19/91		TYPE OF WATER: <input checked="" type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALTWATER DISPOSAL					
		TYPE OF PRODUCTION: <input type="checkbox"/> PRIMARY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> CO ₂ FLOOD <input type="checkbox"/> POLYMER FLOOD <input type="checkbox"/> STEAMFLOOD					



DISSOLVED SOLIDS			DISSOLVED GASES	
CATIONS	me/l	mg/l		
TOTAL HARDNESS	492		HYDROGEN SULFIDE, H ₂ S mg/l	
CALCIUM, Ca ⁺⁺	284	5680	CARBON DIOXIDE, CO ₂ mg/l	
MAGNESIUM, Mg ⁺⁺	208	2538	OXYGEN, O ₂ mg/l	
IRON (TOTAL) Fe ⁺⁺⁺	4.8	90	PHYSICAL PROPERTIES	
BARIUM, Ba ⁺⁺ / Sr	-0-	-0-	pH 7.5	
SODIUM, Na ⁺ (CALC.)	1621	37,283	Eh (REDOX POTENTIAL) MV	
			SPECIFIC GRAVITY	
			TURBIDITY, FTU UNITS	
ANIONS	me/l	mg/l	TOTAL DISSOLVED SOLIDS (CALC.) 121,130 mg/l	
CHLORIDE, Cl ⁻	2113	75,000	STABILITY INDEX ● 104 °F +1.3	
SULFATE, SO ₄ ⁻	6.8	325	● 122 °F +1.5	
CARBONATE, CO ₃ ⁻	--	--	● 140 °F +1.85	
BICARBONATE, HCO ₃ ⁻	3.5	214	● 158 °F +2.2 mg/l	
HYDROXYL, OH ⁻	--	--	● 176 °F +2.55 mg/l	
SULFIDE, S ⁻	-0-	-0-	MAX. CaSO ₄ POSSIBLE (CALC.) mg/l	
			MAX. BaSO ₄ POSSIBLE (CALC.) mg/l	
			RESIDUAL HYDROCARBONS ppm (Vol/Vol)	

SUSPENDED SOLIDS (QUALITATIVE) IRON SULFIDE IRON OXIDE CALCIUM CARBONATE CALCIUM SULFATE ACID INSOLUBLE

REMARKS AND RECOMMENDATIONS:

EC ENGINEER W.C. Vickers	DIST. NO.	ADDRESS Box 618 Evanston, Wy	OFFICE PHONE 789-1355	HOME PHONE
ANALYZED BY W.C. Vickers	DATE 11/20/91	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> EC ENGINEER	<input type="checkbox"/> REGION	<input type="checkbox"/> DISTRICT

PINEVIEW FIELD
SUMMIT COUNTY, UTAH
HISTORY OF NUGGET COMPLETIONS
N/2 SECTION 2 & 3 T2N R7E

Exhibit 5
Docket No. 92-006
Cause No. UIC-128

WELL NAME	DATE OF FIRST PRODUCTION	CUMULATIVE OIL PRODUCTION	CUMULATIVE WATER PRODUCTION	FINAL PRODUCTION RATE (Nugget)	DATE OF FINAL PRODUCTION (Nugget)
McDonald #1 31-3	May, 1976	128,600	104,300	12 BOPD, 1678 BWPD 129 MCFD (99% Water Cut)	Sept, 1981
Bingham 42-3	Dec, 1976	2,985,000	5,215,000	92 BOPD, 1410 BWPD 154 MCFD (94% Water Cut, Currently Producing)	N/A
Bingham 2-2	Jan, 1977	188,000	1,267,000	22 BOPD, 1330 BWPD 106 MCFD (98% Water Cut)	July, 1983
Bingham 2-4	March, 1978	356,000	1,340,000	15 BOPD, 417 BWPD 56 MCFD (97% Water Cut, Currently Producing)	N/A
Adkins #1	Oct, 1980	82,600	2,580,000	30 BOPD, 3300 BWPD (99% Water Cut)	Aug, 1984
B. A. Bingham & Sons #1	May, 1991	-	-	Swab total of 525BW in 19 hrs, no oil	TA June, 1991

**PINEVIEW FIELD
SUMMIT COUNTY, UTAH**

NUGGET WELLS CURRENTLY PRODUCING

WELL	LOCATION	BOPD	BWPD	MCFD	% WATER
Bingham 2-1	NWSW Sec 2 T2N R7E	118	935	209	89
Bingham 2-1A	SW Sec 2 T2N R7E	139	705	224	84
Bingham 2-3	SESW Sec 2 T2N R7E	10	278	24	97
Bingham 2-4	SENW Sec 2 T2N R7E	15	417	36	97
UPRR 3-6 *	SESE Sec 3 T2N R7E	305	5573	707	95
Bingham 42-3	SENE Sec 3 T2N R7E	92	1410	154	94

* Commingled Nugget/Twin Creek producer

PINEVIEW FIELD
SUMMIT COUNTY, UTAH
EVIDENCE OF ORIGINAL OIL/WATER CONTACT

Exhibit 4
Docket No. 92-006
Cause No. UIC-128

LOG ANALYSIS

WELL	LOCATION	NUGGET TOP			INTERPRETED WATER ZONE			LOG CALCULATED WATER SATURATION *	DATE LOGGED
		SUBSEA	TVD	MD	SUBSEA	TVD	MD		
#1 Newton Sheep	SE/4 Sec 4 T2N R7E	-3242	9797'	9828'	-3384'	9939'	9970'	80%	6/74
					-3415'		9970'		
#1 McDonald 31-3	NWNE Sec 3 T2N R7E	-3175'	9811'	9838'	-3473'	10,109'	10,136'	100%	5/77
Boyer 34-1	SESW Sec 34 T3N R7E	-3704'	10,461'	10,504'	-3730'	10,487'	10,530'	100%	4/77

WELL TESTS

WELL	LOCATION	NUGGET TOP			PROVEN WATER ZONE			DATE TESTED	RESULTS
		SUBSEA	TVD	MD	SUBSEA	TVD	MD		
#1 Newton Sheep	SE/4 Sec 4 T2N R7E	-3242'	9797'	9828'	-3438'	9993'	10,024'	12/74	cased hole DST - 10,024'-10,036' recovered 540' O&GCM 8886' G&OCW
#1 McDonald 31-3	NWNE Sec 3 T2N R7E	-3175'	9811'	9838'	-3409'	10,045'	10,072'	4/76	open hole DST - 10,072'-10,200' recovered 90' mud, 1370' water
UPRR 3-4	SESW Sec 3 T2N R7E	-2808'	9357'	9373'	-3443'	9992'	10,008'	1/77	perf 10,008'-10,020' swab 10BO, 94BW

* Log calculated water saturation derived from Schlumberger "Coriband" log analysis

BINGHAM 2-4
PINEVIEW FIELD

2084' FNL 2055' FWL
SESE'
SEC 2 T1N R7E
SUMMIT COUNTY, UTAH

GL 6781'
KB 6797'

0 - 1600' 9 5/8" OD Surface Casing

0 - 1325' 53 jts 1" Rods

1325 - 2950' 65 jts 7/8" Rods

0 - 6257' 193 jts 2.875" OD 2.441" ID N-80 ATLAS Tubing

6226 - 6226' Anchor

2950 - 6225' 123 jts 3/4" Rods

0 - 7770' 7" OD Intermediate Casing

7921 - 7943' Fish 22' 2 7/8" TBG ABOVE PACKER

7943 - 7949' Retr. Packer

NOTE: WELL SIDETRACKED AFTER
CUTTING WINDOW IN 7"
CSG @ 7770'

SALT 7983'-8160'

4 1/2" OD 4.00" ID N-80 Rd. Long Production Casing

9704 - 9750' Perfs NUGGET

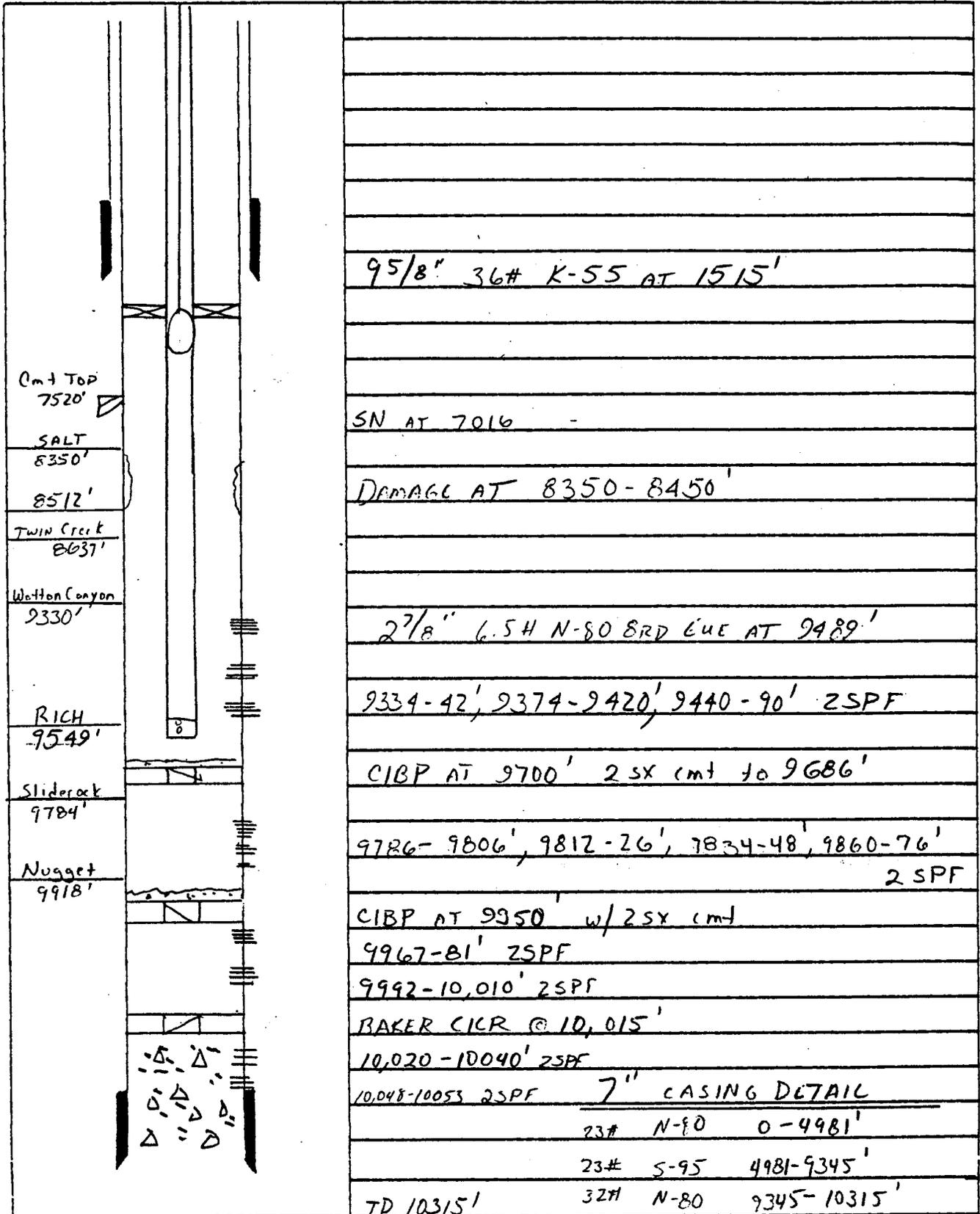
9792 - 9806' Perfs

KB ELEV: 6797'

PBTD: 10087'

TD: 10250'

Location 646 'FWL 680 'FWL Sec. 2 T. 2N R. 7E Well No. BINGHAM 2-2
 State Utah County Summit API No. 43-043-30028 Field PINEVIEW
 Spud 8/76 Comp. 1/77 WI 29.2424 NRI _____ Lease Bingham
 KB 6670 GR 6686 TD 10315 PBDT 9686' Formation TWIN CREEK



Location 1947 FNL 663 FEL S. 3 T. 2N R. 7E Well # Bingham #1 42-3
 Co. Summit, State Utah API # _____ Field Pineview
 Spud: _____ Comp. _____ WI 100 RI 975 Lease BINGHAM
 GR 6684 KB 6699 TD 10,200 PBD 9539 Formation NUGGET

Cement
Top 7200'

9 5/8" 36# K-55 @ 2527'

287 lbs 3 1/2" 8rd EUE Tubing

ODI Electric Submersible pump set @ 8656'

NUGGET

9428-64' 2 SPF

9476-9514' 2 SPF

9524-34' 2 SPF

9535-37' 2 SPF

PBD 9539'

Float Collar 9459'

CASING AT 9541'

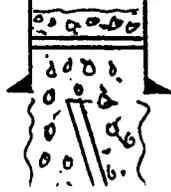
7" PRODUCTION CASING

0-893' 26# SS-95 LTC

893-6246' 23# N-80 LTC

6246-9458' 26# N-80 LTC

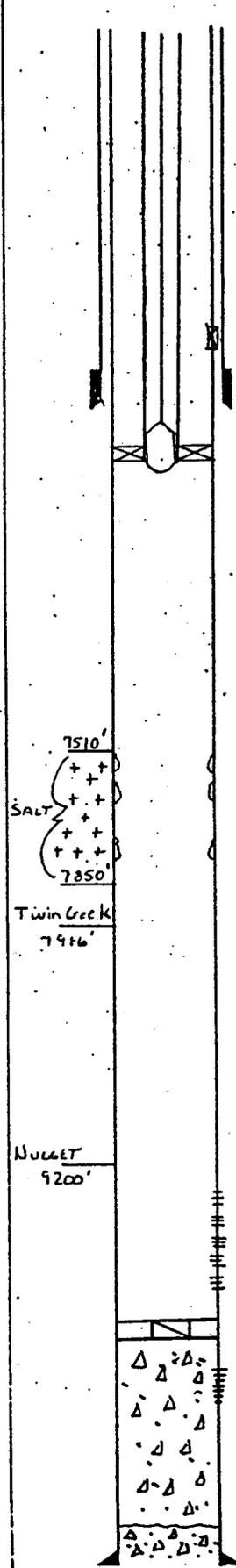
9458-9541' 26# N-80 LTC



Drill pipe fish in hole

KJN 4-23-87

Location 666' FWL 303' FNL S. 2 T. 2N R. 7E Well # BINGHAM 2-1
 Co. Summit, State UT API # 43-043-70026 Field PINEVIEW
 Spud 7/1/76 Comp. 10/25/76 WI. 20625 RI. 173944 Lease BINGHAM
 GR 6810 KB 6827 TD 10,324 PBDT 9481 Formation NUGGET



DV tool at 7811'
 9 5/8" 36# S-95 @ 2007'

129 jts 2 7/8" N-80 Butt EUE
 2.75" positive hold down pump
 Reds: (50) 1", (53) 7/8", (56) 3/4"

BACKER Model "A" hit dils spot at 7509' (OCT, 1976)
 Packer mill hit dils spot at 7502' Fell thru w/16,000#. (May, 1981)
 A 6 1/2" gauge ring would not pass thru 7769-7775'. 5 3/4" gauge ring passed OK. TITE spotted milled. (OCT, 1976)

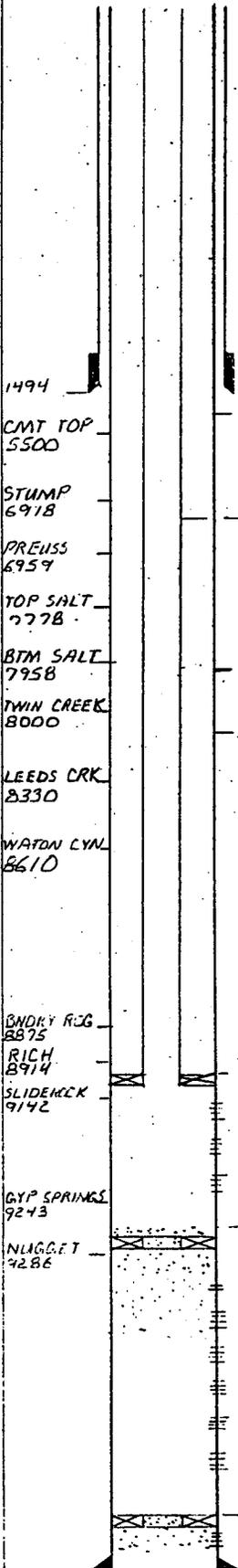
9255-9281' 1SRF
 9286-9300' 1SRF
 9302-9306' 1SRF
 9310-9315' 1SRF
 9322-9333' 1SRF

EZSV CIRC @ 9481'
 9620-9700' 2SRF
 Squeezed w/ 105 SX

PBDT=10,295' (Original)
 TD=10,324'

7" CASING DETAIL
 0-2653' 7" 23# N-80 Butt
 2653-5857' 7" 23# N-80 LTC
 5857-7318' 7" 23# S-95 LTC
 7318-10,324' 7" 23# S-95 LTC
 Cemented w/total 1205 SX

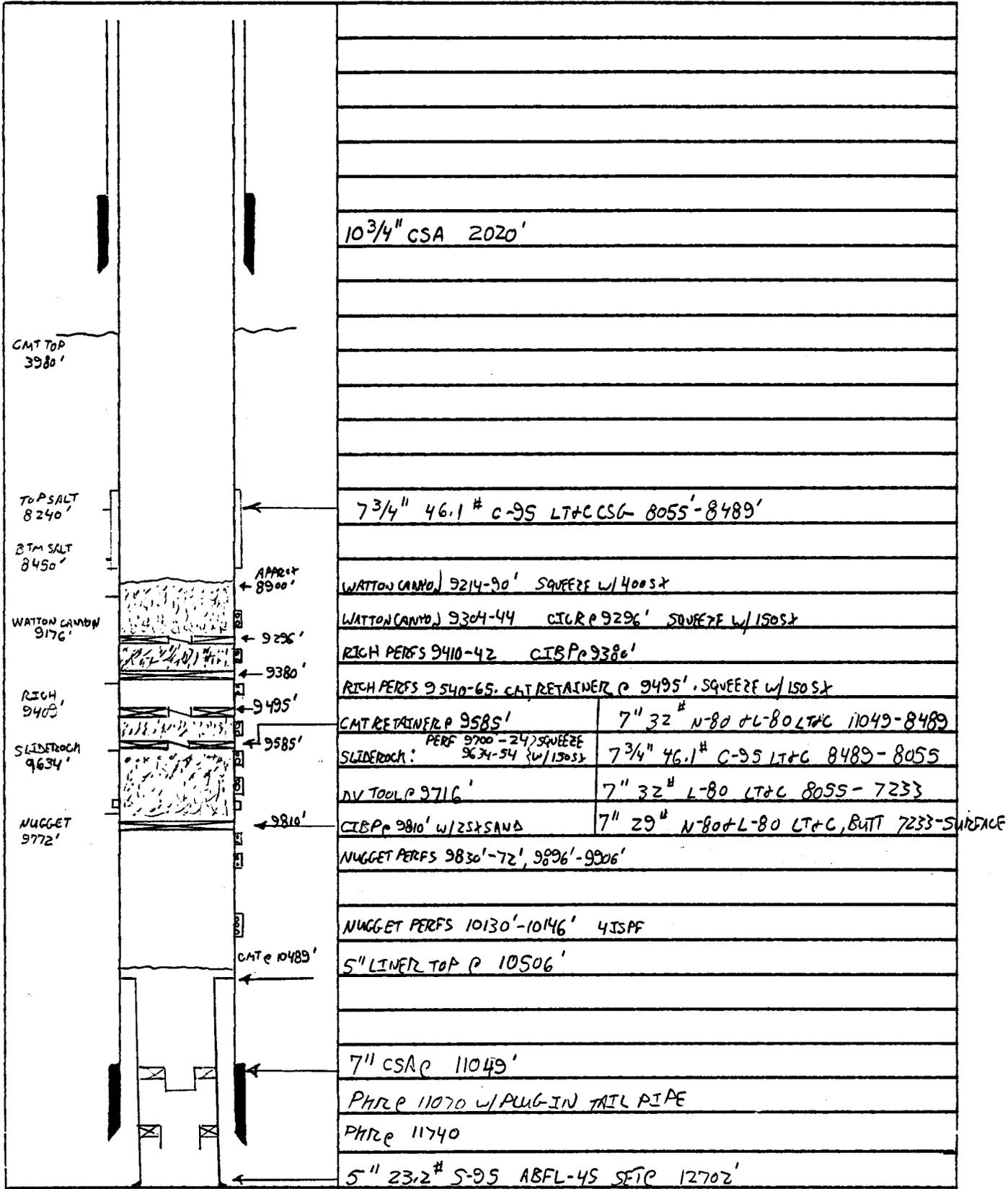
Location 1984' FS L 1 - FEL NE SE S. 3 T. 2N R. 2E # UPRR 3-9
 Co. Summit, State Utah API # 43 043 30151 Field Summit
 Spud 1-20-81 Comp. 6-9-81 WI. 20625 RI. 298094 Lease UPRR
 GR 6846 KB 6862 TD 10,100 PBDT 9270' Formation Sliderock



	13 3/8" @ 73'	w/6 yds. in suit (17 1/2")		
	9 5/8" 36#	K-55 STC @ 1494	w/875 sx (12 1/4")	
	5 1/2" 17#	N-80	0 - 3043	(8 7/8")
	17#	K-55	3043 - 7168	
	23#	N-80	7168 - 7245	
	23#	S-95	7245 - 8147	
	23#	N-80	8147 - 10,102	
	TIGHT @ 2452' STOPPED 4" x 10' CSE GUN			
	307 JTS	2 7/8" N-80	6.5#	BRD EUE
	TIGHT @ 7965' (4.312' GAUGE RING OK)			
	DYE @ 8140			
	BAKER R-3 @ 9035 ID 2.38" (BIG BORE)			
	9141 - 9161	25PF	} SLIDEROCK 5000 GAL 28% HCL	
	9170 - 9220	25PF		
	9230 - 9240	25PF		
	CMT TOP @ 9270'			
	50Z PERFS	9300 - 9302	50Z	w/100 SXS
	9346 - 9352	1	SPF	
	9354 - 9383	1	SPF	
	9405 - 9411	1	SPF	
	9415 - 9440	1	SPF	
	9444 - 9450	1	SPF	
	LICR - 9470			
	50Z PERFS	9476 - 9480	1	SPF 100 SXS
	5 1/2"	10,102'	w/775 SX	

JDA 10-14-85

Location 1205 'FWL 888' FWL Sec. 2 T. 2N R. 7E Well No. BA BINGHAM & SONS #1
 State UTAH County SOMMIT API No. _____ Field PINEVIEW
 Spud _____ Comp. _____ WI _____ NRI _____ Lease _____
 KB 6732 GR 6708 TD _____ PBD ~10400' Formation _____



TDB 1/23/92

EXHIBIT B

OPERATOR: Union Pacific Resources Company
P. O. Box 7
Fort Worth, Texas 76101

EXHIBIT B

LEASE OWNERS:

**American Exploration Company
1331 Lamar, Suite 900
Houston, TX 77010-3088**

**North Central Oil Corporation
6001 Savoy, Suite 600
Houston, TX 77306**

**Geodyne Resources, Inc.
320 South Boston, The Mezzanine
Tulsa, OK 74103-3708**

EXHIBIT B

SURFACE OWNERS:

John Adkins, Jr.
462 North Main
Coalville, UT 84107

Bow Valley Development Corporation
1675 North 200 West
Provo, UT 82601

Edward L. Gillmor
3819 South 2000 East
Holladay, UT 84109

B. A. Bingham & Sons, Partnership
c/o Earl Bingham
8005 North 3600 West
Honeyville, UT 84314

Fay T. and Donna W. Dearden
P. O. Box 691
Park City, UT 85060



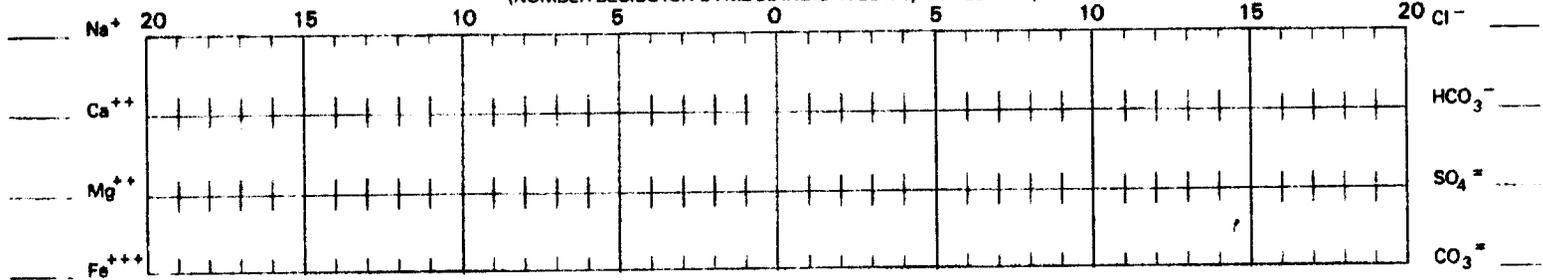
EXXON CHEMICAL COMPANY
 P.O. Box 4321 Houston, Texas 77210-4321
 Tel. (713) 460-6800 Telex: 4942225 ENCEHOU

834-0122

WATER ANALYSIS REPORT

							SHEET NUMBER
COMPANY Union Pacific Res. Company						DATE 1/30/92	
FIELD Pineview				COUNTY OR PARISH Summit		STATE Utah	
LEASE OR UNIT #2-1		SAMPLE SOURCE Well Head			WATER SOURCE (FORMATION) Nuggett		
DEPTH FT.	BHT, 'F	SAMPLE SOURCE	TEMP., 'F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED 1/30/92		TYPE OF WATER: <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALTWATER DISPOSAL					
		TYPE OF PRODUCTION: <input type="checkbox"/> PRIMARY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> CO ₂ FLOOD <input type="checkbox"/> POLYMER FLOOD <input type="checkbox"/> STEAMFLOOD					

WATER ANALYSIS PATTERN
 (NUMBER BESIDE ION SYMBOL INDICATES mg/SCALE UNIT)



DISSOLVED SOLIDS

DISSOLVED GASES

CATIONS	me/l	mg/l	HYDROGEN SULFIDE, H ₂ S	mg/l
TOTAL HARDNESS	68		CARBON DIOXIDE, CO ₂	mg/l
CALCIUM Ca ⁺⁺	52	1040	OXYGEN, O ₂	mg/l
MAGNESIUM Mg ⁺⁺	16	195	PHYSICAL PROPERTIES	
IRON (TOTAL) Fe ⁺⁺⁺	0.3	5	pH	7.2
BARIUM Ba ⁺⁺ /Sr	-0-	-0-	Eh (REDOX POTENTIAL)	MV
SODIUM Na ⁺ (CALC)	524	12,052	SPECIFIC GRAVITY	
ANIONS	me/l	mg/l	TURBIDITY, FTU UNITS	
CHLORIDE Cl ⁻	592	21,000	TOTAL DISSOLVED SOLIDS (CALC.)	37,140 mg/l
SULFATE SO ₄ ⁼⁼	47	2,250	STABILITY INDEX @ 'F	
CARBONATE CO ₃ ⁼⁼	--	--	@ 'F	
BICARBONATE HCO ₃ ⁻	9.8	598	@ 'F	
HYDROXYL OH ⁻	--	--	CaSO ₄ SOLUBILITY @ 'F	mg/l
SULFIDE S ⁼⁼			@ 'F	mg/l
			MAX. CaSO ₄ POSSIBLE (CALC.)	mg/l
			MAX. BaSO ₄ POSSIBLE (CALC.)	mg/l
			RESIDUAL HYDROCARBONS	ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE) IRON SULFIDE IRON OXIDE CALCIUM CARBONATE CALCIUM SULFATE ACID INSOLUBLE

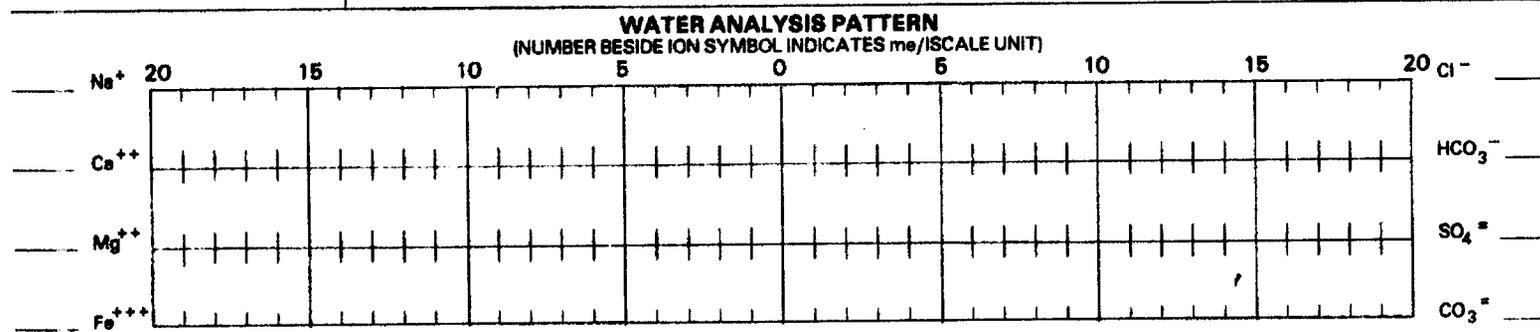
REMARKS AND RECOMMENDATIONS

EC ENGINEER W.C. Vickers	DIST NO	ADDRESS Evanston, Wyoming	OFFICE PHONE 307-789-1355	HOME PHONE
ANALYZED BY W.C. Vickers	DATE 1/30/92	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> EC ENGINEER	<input type="checkbox"/> REGION	<input type="checkbox"/> DISTRICT

834-0122

WATER ANALYSIS REPORT

						SHEET NUMBER
COMPANY Union Pacific Res. Company						DATE 5/14/91
FIELD Pineview				COUNTY OR PARISH Summit		STATE Utah
LEASE OR UNIT Bingham and Sons #1		SAMPLE SOURCE Inside casing			WATER SOURCE (FORMATION) Nuggett	
DEPTH, FT.	BHT, °F	SAMPLE SOURCE	TEMP., °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY
DATE SAMPLED 5/14/91		TYPE OF WATER: <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALTWATER DISPOSAL				
		TYPE OF PRODUCTION: <input type="checkbox"/> PRIMARY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> CO ₂ FLOOD <input type="checkbox"/> POLYMER FLOOD <input type="checkbox"/> STEAMFLOOD				



DISSOLVED SOLIDS			DISSOLVED GASES	
CATIONS	me/l	mg/l		
TOTAL HARDNESS			HYDROGEN SULFIDE, H ₂ S	mg/l
CALCIUM, Ca ⁺⁺			CARBON DIOXIDE, CO ₂	mg/l
MAGNESIUM, Mg ⁺⁺			OXYGEN, O ₂	mg/l
IRON (TOTAL) Fe ⁺⁺⁺			PHYSICAL PROPERTIES	
BARIUM, Ba ⁺⁺			pH	
SODIUM, Na ⁺ (CALC.)			Eh (REDOX POTENTIAL)	MV
			SPECIFIC GRAVITY	
ANIONS	me/l	mg/l	TURBIDITY, FTU UNITS	
CHLORIDE, Cl ⁻	620	22,000	TOTAL DISSOLVED SOLIDS (CALC.)	mg/l
SULFATE, SO ₄ ⁼			STABILITY INDEX @ °F	
CARBONATE, CO ₃ ⁼			@ °F	
BICARBONATE, HCO ₃ ⁻			@ °F	
HYDROXYL, OH ⁻			CaSO ₄ SOLUBILITY @ °F	mg/l
SULFIDE, S ⁼			@ °F	mg/l
			MAX. CaSO ₄ POSSIBLE (CALC.)	mg/l
			MAX. BaSO ₄ POSSIBLE (CALC.)	mg/l
			RESIDUAL HYDROCARBONS	ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE) IRON SULFIDE IRON OXIDE CALCIUM CARBONATE CALCIUM SULFATE ACID INSOLUBLE

REMARKS AND RECOMMENDATIONS

EC ENGINEER W.C. Vickers	DIST. NO.	ADDRESS Evanston, Wyoming	OFFICE PHONE 307-789-1355	HOME PHONE
ANALYZED BY W.C. Vickers	DATE	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> EC ENGINEER	<input type="checkbox"/> REGION	<input type="checkbox"/> DISTRICT

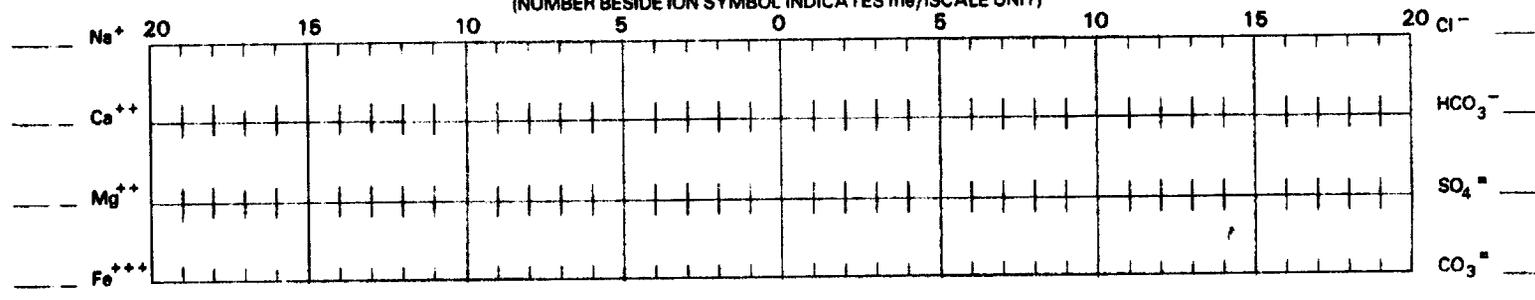
EXXON CHEMICAL COMPANY
P.O. Box 4321 Houston, Texas 77210-4321
Tel. (713) 460-8800 Telex: 4942225 ENCEHOU

034-0122

WATER ANALYSIS REPORT

						SHEET NUMBER	
COMPANY Union Pacific Res. Company						DATE 1/30/92	
FIELD Pineview				COUNTY OR PARISH Summit		STATE Utah	
LEASE OR UNIT #10-1		SAMPLE SOURCE Well Head		WATER SOURCE (FORMATION) Twin Creek			
DEPTH: FT.	BHT, °F	SAMPLE SOURCE	TEMP, °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED 1/30/92		TYPE OF WATER: <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALTWATER DISPOSAL					
		TYPE OF PRODUCTION: <input type="checkbox"/> PRIMARY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> CO ₂ FLOOD <input type="checkbox"/> POLYMER FLOOD <input type="checkbox"/> STEAMFLOOD					

WATER ANALYSIS PATTERN
(NUMBER BESIDE ION SYMBOL INDICATES mg/SCALE UNIT)



DISSOLVED SOLIDS			DISSOLVED GASES			
CATIONS	me/l	mg/l				
TOTAL HARDNESS	64		HYDROGEN SULFIDE, H ₂ S	mg/l		
CALCIUM, Ca ⁺⁺	40	800	CARBON DIOXIDE, CO ₂	mg/l		
MAGNESIUM, Mg ⁺⁺	24	293	OXYGEN, O ₂	mg/l		
IRON (TOTAL) Fe ⁺⁺⁺	0.4	7.5	PHYSICAL PROPERTIES			
BARIUM, Ba ⁺⁺ , Sr	-0-	-0-			pH	7.0
SODIUM, Na ⁺ (CALC.)	415	9,545			Eh (REDOX POTENTIAL)	MV
					SPECIFIC GRAVITY	
ANIONS	me/l	mg/l	TURBIDITY, FTU UNITS			
CHLORIDE, Cl ⁻	479	17,000	TOTAL DISSOLVED SOLIDS (CALC.)	30,476 mg/l		
SULFATE, SO ₄ ⁻⁻	47	2,250	STABILITY INDEX @ °F			
CARBONATE, CO ₃ ⁻⁻	--	--				
BICARBONATE, HCO ₃ ⁻	9.5	580				
HYDROXYL, OH ⁻	--	--	CaSO ₄ SOLUBILITY @ °F	mg/l		
SULFIDE, S ⁻⁻				mg/l		
			MAX. CaSO ₄ POSSIBLE (CALC.)	mg/l		
			MAX. BaSO ₄ POSSIBLE (CALC.)	mg/l		
			RESIDUAL HYDROCARBONS	ppm (Vol/Vol)		

SUSPENDED SOLIDS (QUALITATIVE) IRON SULFIDE IRON OXIDE CALCIUM CARBONATE CALCIUM SULFATE ACID INSOLUBLE

REMARKS AND RECOMMENDATIONS

EC ENGINEER W.C. Vickers	DIST NO	ADDRESS Evanston, Wyoming	OFFICE PHONE 307-789-1355	HOME PHONE
ANALYZED BY W.C. Vickers	DATE 1/20/92	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> EC ENGINEER	<input type="checkbox"/> REGION	<input type="checkbox"/> DISTRICT

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

SUB. IN TRIPLICATE
(0 instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [] GAS WELL [] OTHER [] Conversion to Nugget SWD
2. NAME OF OPERATOR UNION PACIFIC RESOURCES COMPANY
3. ADDRESS OF OPERATOR P.O. Box 7 - MS 3407, Fort Worth TX 76101-0007
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations. See also space 17 below.) At surface
1205' FNL & 888' FWL
14. PERMIT NO. 43-043-30295
15. ELEVATIONS (Show whether OF, ST, OR, etc.) 6708' GL
5. LEASE DESIGNATION AND SERIAL NO. Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME B. A. Bingham & Sons, Inc.
9. WELL NO. #1
10. FIELD AND POOL, OR WILDCAT Pineview
11. SEC., T., R., M., OR BLM. AND SUBST OR AREA NW NW Sec. 2-2N-7E
12. COUNTY OR PARISH SUMMIT 13. STATE Utah

RECEIVED FEB 13 1992

DIVISION OF OIL GAS & MINING

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 COMPLETS [] ABANDON* [] CHANGE PLANS [] SWD Conversion [X]
SUBSEQUENT REPORT OF: WATER SHUT-OFF [] FRACTURE TREATMENT [] SHOOTING OR ACIDIZING [] (Other) []
REPAIRING WELL [] ALTERING CASING [] ABANDONMENT* []
(Notes: 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.)

PROCEDURE FOR CONVERSION TO NUGGET SWD

GLE: 6708' Dogleg: 7400'
KB: 6732' Cement Top: 3980'
TD: 12697'
PBDT: Approximately 8900' TBG: 253 jts 2 7/8" 6.5# N-80 8rd Eue tubing, open ended.
Surface Casing: 10 3/4" set @ 2020'
Intermediate Casing: 7" 29# & 32" N-80 & L-80, LT&C, Buttress 0'-8055'
7.75" 46.1# C-95 LT&C 8055'-8489'
7" 32# N-80 & L-80, LT&C 8489'-11,049'
DV Tool @ 9716'
Cement Job: 1st stage - 375 sx Class "G"
2nd stage - 975 sx 65-35 Poz w/6% Gal. Tail w/956 sx Class "G".
Liner: 5" 23.2# S-95 ABFL-4S 10,506'-12,702'
Pressure tested liner top to 4000 psi w/9.4 ppg mud.
Packer: Baker Model DB @ 11,740'
Baker Model DB @ 11,070' w/plug-in tail pipe
Fill 5" & 7" csg w/cmt 11,070'-10,400'
PROCEDURE:
1. MIRUSU, Power Swivel, circulating pump, and 2-500 bbl tanks.
2. ND wellhead and NU 5000 psi BOP.
3. PU 6" BIT, 6-DC's, and 2 7/8" 6.5# N-80 8rd Eue tubing and TIH to tag PBDT @ approximately 8900'.
4. PU Power Swivel and drill out cement with field brine water to top of CIGR @ 9296'. Circulate hole clean and pressure test squeezed perms 9214'-9290' to 1000 psi.
5. Drill out CIGR @ 9296' and cement to top of CIBP @ 9380'. Circulate hole clean and pressure test squeezed perms 9304'-9344' to 1000 psi.
6. Drill out CIBP @ 9380' and tag top of CIGR @ 9495'. Circulate hole clean. TOOH w/tbg & bit.

(Continued on Reverse)

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] /J.L. Rector TITLE Regulatory Analyst DATE 2-10-92

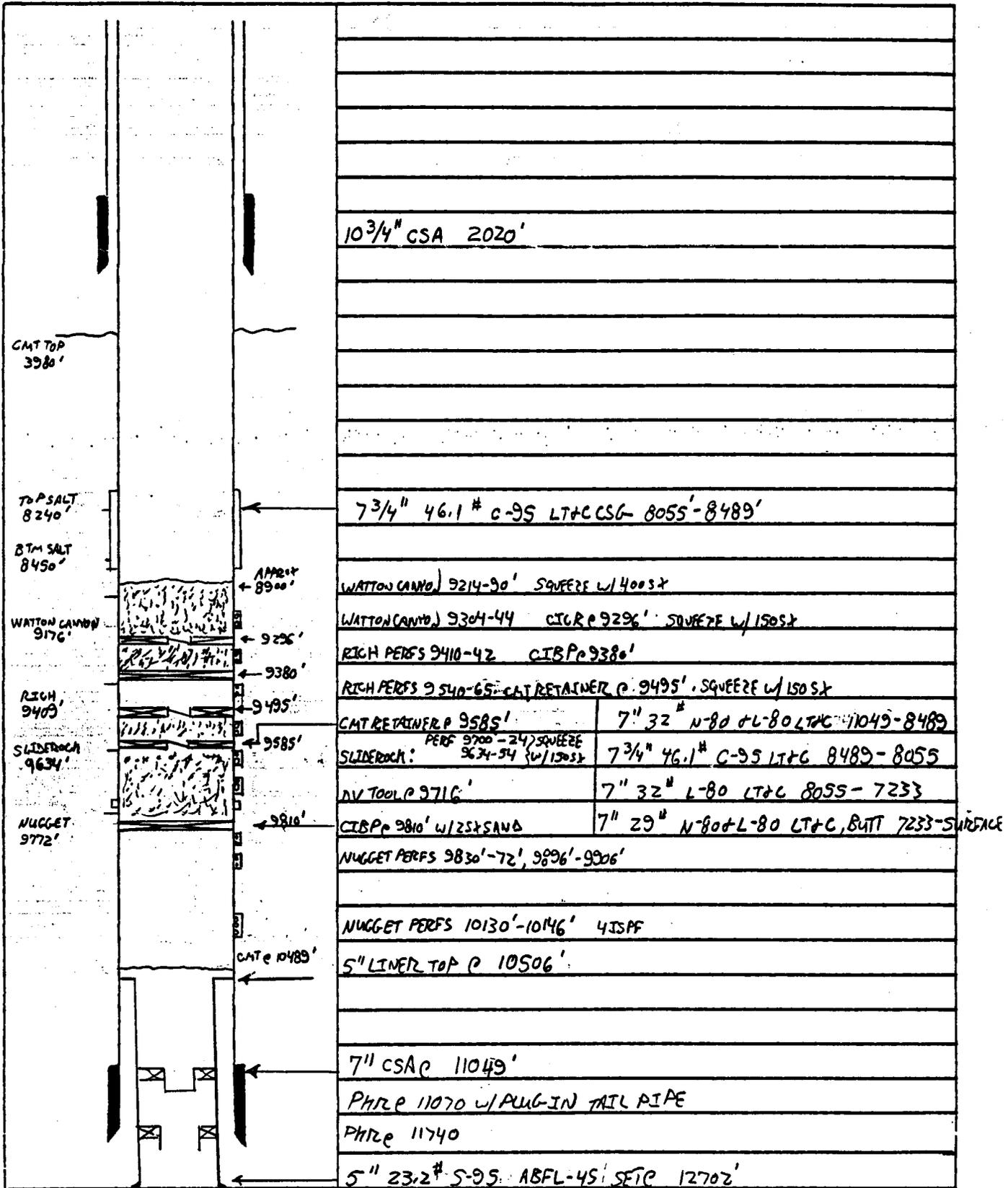
(This space for Federal or State office use)

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

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 2-26-92

*See Instructions BY reverse Side

Location / 205 'FWL 888' FWL Sec. 2 T. 2N R. 7E Well No. BA BINGHAM SO'S #1
 State UTAH County SUMMIT API No. _____ Field PINEVIEW
 Spud _____ Comp. _____ WI _____ NRI _____ Lease _____
 KB 6732 GR 6708 TD _____ PBD ~10400' Formation _____





**Union Pacific
Resources**

A Subsidiary of Union Pacific Corporation

RECEIVED

FEB 03 1992

January 31, 1992

DIVISION OF
OIL GAS & MINING

State of Utah
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Mr. Gil Hunt

**RE: Request for Administrative Approval to convert the
B.A. Bingham & Sons #1 well to a Nugget saltwater
disposal well, 1205 FNL, 888' FWL Sec. 2, T2N, R7E
Summit County, Utah**

43-043-30295

Dear Mr. Hunt:

Union Pacific Resources Company (UPRC) hereby requests approval to convert the B. A. Bingham & Sons #1 well to a Nugget formation saltwater disposal well. The subject well was spudded in July of 1990 and completed as a dry hole during June, 1991. The Nugget and Twin Creek zones have been thoroughly tested. Log analysis of the uphole Stump, Kelvin and Wanship formations indicated no further production potential. Three Nugget disposal wells, UPRR 5-1, Clark 4-1, and #1 McDonald 31-3 are in operation at Pineview.

As required under R615-5-1 and R615-5-2, UPRC hereby submits the attached information. A copy of this application has been forwarded to all lease owners, surface owners, and operators within a one-half mile radius of the B. A. Bingham & Sons #1.

Very truly yours,

Ted D. Brown
Staff Petroleum Engineer

TDB/cc
92-012

Attachments

Union Pacific Resources Company
P.O. Box 7
Fort Worth, Texas 76101-0007
817 / 877-6000
TWX 910 893 5024
Telex 758-447

Before me, Jamie Rhea White, a notary public in and for Tarrant county, State of Texas, personally appeared Jose D. Brown and he being duly sworn by me upon his oath, says that the facts alleged in the foregoing instrument are true.

WITNESS MY HAND AND OFFICIAL SEAL



Jamie Rhea White 1-31-92
NOTARY PUBLIC

My commission expires:

1-18-95

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

SLB/MIL (Other Applications on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [] GAS WELL [] OTHER []
2. NAME OF OPERATOR UNION PACIFIC RESOURCES COMPANY
3. ADDRESS OF OPERATOR P.O. Box 7 MS 5407, Fort Worth TX 76101-0007
4. LOCATION OF WELL Report location clearly and in accordance with any State requirements. See also space 17 below. 1205' FNL & 888' FWL
16. PERMIT NO. 43 043-50295
18. ELEVATION (Show whether sp. or. GL etc.) 6708' GL

5. LEASE DESIGNATION AND SERIAL NO. Fee
6. IF INDIAN, ALLOTTEE OR TRUST TRUST
7. UNIT ASSIGNMENT NAME
8. NAME OF LEASE NAME B. A. Bingham & Sons, Inc.
9. WELL NO. #1
10. FIELD AND POOL, OR WILDCAT Pineview
11. SEC., T., R., N., OR BLM. AND SURVEY OR AREA NW NW Sec. 2-24
12. COUNTY OR STATE Summit Utah

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 []
POLL OR ALTER CASING [] MULTIPLE COMPLETS [] ABANDON* [] CHANGE PLATE [] SWD Conversion [X]
SUBSEQUENT ACTION OF: WASTE SHUT-OFF [] PRACTICE TREATMENT [] BRIDGING OR ACID LINE [] (Other) []
REPAIRING WELL [] ALTERING CASING [] ABANDONMENT* []
NOTE: Report results of multiple completion or Well Completion or Reconnection Report and Log form.

17. DESCRIBE IN WORDS OR COMPLETED OPERATIONS (Give 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.)

PROCEDURE FOR CONVERSION TO NUGGET SWD

OLE: 6708' Dogleg: 2400'
KB: 9732' Cement Top: 3980'
TD: 12697'
BTD: Approximately 8900' T&C: 253 jcs 2 7/8" 6.5w N-80 8rd Eua tubing down ended.
Surface Casing: 10 3/4" s&c @ 2020'
Intermediate Casing: 7 1/2" & 8 1/2" N-80 & L-80, 1260' Success 31-8015
7 1/2" ABFL-45 1w 2-75 LT&C 8055'-8489'
7 1/2" N-80 & L-80, LT&C 8489'-11,049'
Dr. Tool @ 716'
Cement Job: 1st stage - 375 sk Class 100
2nd stage - 475 sk 85-13 Por w/8 Gal. Tail w/956 sk Class 100
Liner: 5 1/2" 2-95 ABFL-45 10,506'-12,702'
5 1/2" lined liner top to 4000 psi
Saker 108, DS @ 11,700'
Saker 108, DB @ 11,700' w plug-in ball pipe
Fill @ 11,700' 11,070' 10,400'

- PROCEDURE:
1. MURUSU, Power Swivel, circulating pump, and 2-500 bbl tanks
2. ND wellhead and NU 5000 psi BOP.
3. PU 6" BIT, 6-DC's, and 2 7/8" 6.5w N-80 8rd Eua tubing and 11w to tag BTD @ approximately 8900'.
4. PU Power Swivel and drill out cement with field brine water to 11,000' @ 9296'. Circulate hole clean and pressure test squeezed perfs 9304'-9344' to 1000 psi
5. Drill out CIRC @ 9296' and cement to top of CISP @ 9380'. Circulate hole clean and pressure test squeezed perfs 9304'-9344' to 1000 psi.
6. Drill out CISP @ 9380' and tag top of CIRC @ 9495'. Circulate hole clean tool w/ebg & bit.

(Continued on Reverse)

I, I hereby certify that the foregoing is true and correct
SIGNED J. L. Rector TITLE Regulatory Analyst DATE 2-10-92

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____
CERTIFIED BY _____ OF APPROVAL IF ANY.

*See instructions on Reverse Side

7. RU wireline and lubricator and RIH w/CICR and set @ 9360'. RD wireline
8. PU stringer & TIH w/tbg to top of CICR. Pressure test casing to 1000 psi. String into casing and pressure test tubing to 1000 psi. Establish injection rate down tubing.
9. RU service company to cement squeeze rich perforations 9410'-9442'. Cement squeeze perms w/50 sx Class "G" low water loss cement followed by 100 sx Class "C" neat. Hesitate squeeze as necessary.
10. String out of retainer and circulate clean. TOOH w/tbg & stringer. WOC overnight.
11. PU bit, DG's & tbg and TIH to top of CICR. PU Power Swivel and drill out CICR and cement to top of CICR @ 9495'. Pressure test squeezed perms 9410'-42' to 1000 psi.
12. Drill out CICR @ 9495' and cement to top of CICR @ 9585'. Pressure test squeezed perms 9540'-45' to 1000 psi.
13. Drill out CICR @ 9585' and cement to top of CIBP @ 9810'. Pressure test squeezed perms 9700'-24', 9634'-54' to 1000 psi.
14. Drill out CIBP @ 9810' and tag PSTB @ 10,489'.
15. TOOH w/bit & tbg. TIH w/bit & scraper to approximately 9800'. TOOH & lay down work string and drill collars.
16. Change out pipe rans on BOP to accommodate 3 1/2" tbg.
17. PU Baker Model R double grip packer (internal & external coated), 3H, and 3 1/2" 9.3# N-80 SRB Eye internally coated tubing w/TMS couplings. TIH to 9800'.
18. NO SOP. Make up BOP coupling and wrap around, and NUWH. RU circulating pump. Circulate well w/approximately 300 bbls water treated w/corrosion inhibitors, as necessary.
19. Set Packer w/20,000 lbs compression. Pressure test annulus to 1000 psi. for 15 minutes. Contact State of Utah 24 hrs prior to testing.
20. R. OSU. MURU pump truck and water source. Hook up to wellhead.
21. Conduct injectivity test down 3 1/2" tubing at the following rates and record the pressures. 18PM, 38PM, 48PM, and 68PM.
22. Inject @ each rate for a minimum of 30 minutes until stabilized. Be sure to use clean water for the injectivity test, preferably water treated w/generated Chlorine Dioxide.
23. RD pump trucks and turn well to injection upon completion of flowline installation.

NOTE:

A tuboscope representative will be on location to witness the handling and TIH with 3 1/2" injection string.

*****)*****)*****

** TRANSMIT CONFIRMATION REPORT **

Journal No. : 006
 Receiver : 18178777942
 Transmitter : DIV OIL & MINING
 Date : Mar 26, 9 13
 Document : 02 pages
 Time : 01'09"
 Mode : G3 NORMAL
 Result : OK

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

SEMI-ANNUAL REPORT
(Other forms for use
only)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR UNION PACIFIC RESOURCES COMPANY		6. IF INDIAN, ALLOTMENT OR TRACT NAME
3. ADDRESS OF OPERATOR P.O. Box 7 MS 5407, Fort Worth TX 76101-0007		7. UNIT ASSIGNMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1205' FNL & 888' FWL		8. NAME OF LEASE NAME B. A. Bingham & Sons, Inc.
9. PERMIT NO. 43-043-30295		9. WELL NO. #1
10. ELEVATIONS (Show whether at, to, or, etc.) 6708' GL		10. FIELD AND POOL, OR WILDCAT Pineview
		11. SEC. T. R. M. OR BLM. AND SURVEY OR AREA NW NW Sec. 2-2N-7E
		12. COUNTY OR PARISH (If State) Summit Utah

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 COMPLETION <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) <input type="checkbox"/>	
(Other) <input type="checkbox"/>	SWD Conversion <input checked="" type="checkbox"/>	(Note: Report results of multiple completion or well completion or recompletion report and log form.)	

17. DESCRIBE COMPLETED 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 named pertinent to this work.

PROCEDURE FOR CONVERSION TO NUGGET SWD

OLE: 6708' Dogleg: 7400'
KB: 6732' Cement Top: 3980'
TD: 12697'
PBTD: Approximately 8900'
Surface Casing: 10 3/4" sec @ 2020'
Intermediate Casing: 7" 29# & 32" N-80 & L-80, LT&C. Success 9'-8055'
7.75" 46.1# C-95 LT&C 8055'-8489'
7" 32# N-80 & L-80, LT&C 8489'-11,069'
DV Tool @ 9716'
Cement Job: 1st stage - 375 sk Class "C"
2nd stage - 475 sk 85-15 Fox w/6% Gal. Tail w/956 sk Class "C"
Liner: 5" 23.2# 5-95 ABFL-4S 10,506'-12,702'
Pressure tested liner top to 4000 psi w/9.4 ppg mud.
Packer: Baker Model DB @ 11,740'
Baker Model DB @ 11,070' w/plug-in tail pipe
Fill 5" & 7" csg w/cmt 11,070'-10,400'

PROCEDURE:

- MIRUSU, Power Swivel, circulating pump, and 2-500 bbl tanks.
- ND wellhead and NU 5000 psi BOP.
- PU 6" BIT, 6-DC's, and 2 7/8" 6.5# N-80 8rd Eue tubing and TIM to tag PSTO @ approximately 8900'.
- PU Power Swivel and drill out cement with field brine water to top of C1CR @ 9296'. Circulate hole clean and pressure test squeezed perfs 9214'-9290' to 1000 psi.
- Drill out C1CR @ 9296' and cement to top of C1SP @ 9380'. Circulate hole clean and pressure test squeezed perfs 9304'-9364' to 1000 psi.
- Drill out C1SP @ 9380' and tag top of C1CR @ 9495'. Circulate hole clean. Tool w/csg & bit.

(Continued on Reverse)

I hereby certify that the foregoing is true and correct

SIGNED J. L. Rector TITLE Regulatory Analyst DATE 2-10-92

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL IF ANY:

Checked by
Approved by
Sh...
See Instructions on Reverse Side

7. RV wireline and lubricator and RIM w/CICR and set @ 9360'. RD wireline.
8. PU stringer & TIH w/tbg to top of CICR. Pressure test casing to 1000 psi. String into retainer and pressure test tubing to 1000 psi. Establish injection rate down tubing.
9. RV service company to cement squeeze rich perforations 9410'-9442'. Cement squeeze perfis w/50 sx Class "C" low water loss cat followed by 100 sx Class "C" neat. Hesitate squeeze as necessary.
10. String out of retainer and circulate clean. TOOH w/tbg & stringer. WOC overnight.
11. PU bit, DG's & tbg and TIH to top of CICR. PU Power Solvel and drill out CICR and cement to top of CICR @ 9495'. Pressure test squeezed perfis 9410'-42' to 1000 psi.
12. Drill out CICR @ 9495' and cement to top of CICR @ 9585'. Pressure test squeezed perfis 9540'-65' to 1000 psi.
13. Drill out CICR @ 9585' and cement to top of CIBP @ 9810'. Pressure test squeezed perfis 9700'-24', 9634'-54' to 1000 psi.
14. Drill out CIBP @ 9810' and tag PSTB @ 10,489'.
15. TOOH w/bit & tbg. TIH w/bit & scraper to approximately 9800'. TOOH & lay down work string and drill collars.
16. Change out pipe runs on BOP to accommodate 3 1/2" tbg.
17. PU Baker Model X double grip packer (internal & external coated), SN, and 3/4" 9.3m N-80 8RD Eue internally coated tubing w/TMS couplings. TIH to @ 9800'.
18. NO BOP, make up BOP coupling and wrap around, and NUWH. RV circulating pump. Circulate well w/approximately 300 bbls water treated w/corrosion inhibitors, as necessary.
19. Set Packer w/20,000 lbs compression. Pressure test annulus to 1000 psi. for 15 minutes. Contact State of Utah 24 hrs prior to testing.
20. RDHOSU. MIAU pump truck and water source. Hook up to wellhead.
21. Conduct injectivity test down 3/4" tubing at the following rates and record the pressures: 1BPM, 3BPM, 4BPM, and 8BPM.
22. Inject @ each rate for a minimum of 30 minutes until stabilized. Be sure to use clean water for the injectivity test, preferably water treated w/generated Chlorine Dioxide.
23. RD pump trucks and turn well to injection upon completion of flowline installation.

NOTE:

A Tuboscope representative will be on location to witness the handling and TIH with 3/4" injection string.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

February 14, 1992

Summit County Bee
20 North Main
Coalville, Utah 84066

Gentlemen:

Re: Cause No. UIC-128

Enclosed is a Notice of Agency Action before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Romero".

Lisha Romero
Administrative Analyst
Oil and Gas

djj
Enclosure
HOI5/2

**UNION PACIFIC RESOURCES COMPANY
BINGHAM AND SONS #1
Cause No. UIC-128**

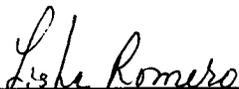
Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Summit County Bee
20 North Main
Coalville, Utah 84066

Union Pacific Resources Company
P.O. Box 7
Fort Worth, Texas 76101-0007

John Adkins Jr.
462 North Main
Coalville, Utah 84107



Lisha Romero
Administrative Analyst
Oil and Gas
February 14, 1991

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

---ooOoo---

IN THE MATTER OF THE APPLICATION : NOTICE OF AGENCY ACTION
OF UNION PACIFIC RESOURCES COMPANY :
FOR ADMINISTRATIVE APPROVAL OF THE : CAUSE NO. UIC-128
BINGHAM AND SONS #1 WELL LOCATED :
IN SECTION 2, TOWNSHIP 2 NORTH, :
RANGE 7 EAST, S.L.M., :
SUMMIT COUNTY, UTAH, AS A :
CLASS II INJECTION WELL :

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Union Pacific Resources Company for administrative approval of the Bingham and Sons #1 Well, located in Section 2, Township 2 North, Range 7 East, Summit County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The proposed intervals to be selectively perforated for water disposal are from 9830'-10146' (Nugget Sandstone) . The average injection pressure is estimated to be 2100 psig or less with a maximum requested injection pressure of 2500 psig. The estimated injection volume will be 4600 barrels water per day.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 14th day of February, 1992.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



R.J. Firth
Associate Director, Oil and Gas

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

RECEIVED

FEB 24 1992

DIVISION OF
OIL GAS & MINING

IN THE MATTER OF THE :
APPLICATION OF UNION PACIFIC :
RESOURCES COMPANY FOR : PROTEST AND OBJECTION TO
ADMINISTRATIVE APPROVAL OF : PROPOSED AGENCY ACTION
THE BINGHAM AND SONS #1 WELL :
LOCATED IN SECTION 2, : Cause No. UIC-128
TOWNSHIP 2 NORTH, RANGE 7 :
EAST, S.L.M., SUMMIT COUNTY, :
UTAH, AS A CLASS II INJECTION :
WELL :

COMES NOW John Adkins, Jr., 462 North Main, P.O. Box 386, Coalville, Utah 84017, and protests and objects to the proposed agency action in this cause, and in support thereof, alleges:

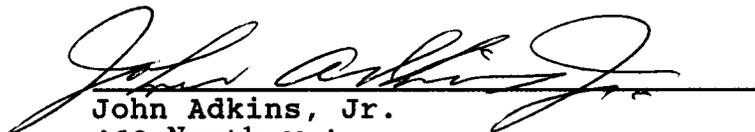
(1) Protestant is both a surface and a mineral owner of lands situated approximately 1/4 of a mile from the Bingham and Sons #1 Well.

(2) The proposed action would adversely affect the protestant's mineral interest located approximately 1/4 of a mile from the Bingham and Sons #1 Well and would diminish protestant's value of said mineral interest.

(3) That the proposed action would result in production water being stored and deposited by Union Pacific Resources in and under protestant's lands, and would constitute a taking of protestant's property without compensation therefore, and without any legal right to use or take protestant's property.

WHEREFORE, protestant prays that the application of Union Pacific Resources Company be denied and that protestant be notified of any hearings or actions taken by the Division of Oil, Gas, and Mining regarding said application.

DATED this 20th day of February, 1992.



John Adkins, Jr.
462 North Main
P.O. Box 386
Coalville, Utah 84017
Telephone: 336-2049

MAILING CERTIFICATE

I hereby certify that on the 20th day of February, 1992, I mailed a true and correct copy of the foregoing Protest and Objection to Proposed Agency Action to the Division of Oil, Gas, and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203, Attention R. J. Firth, Associate Director.

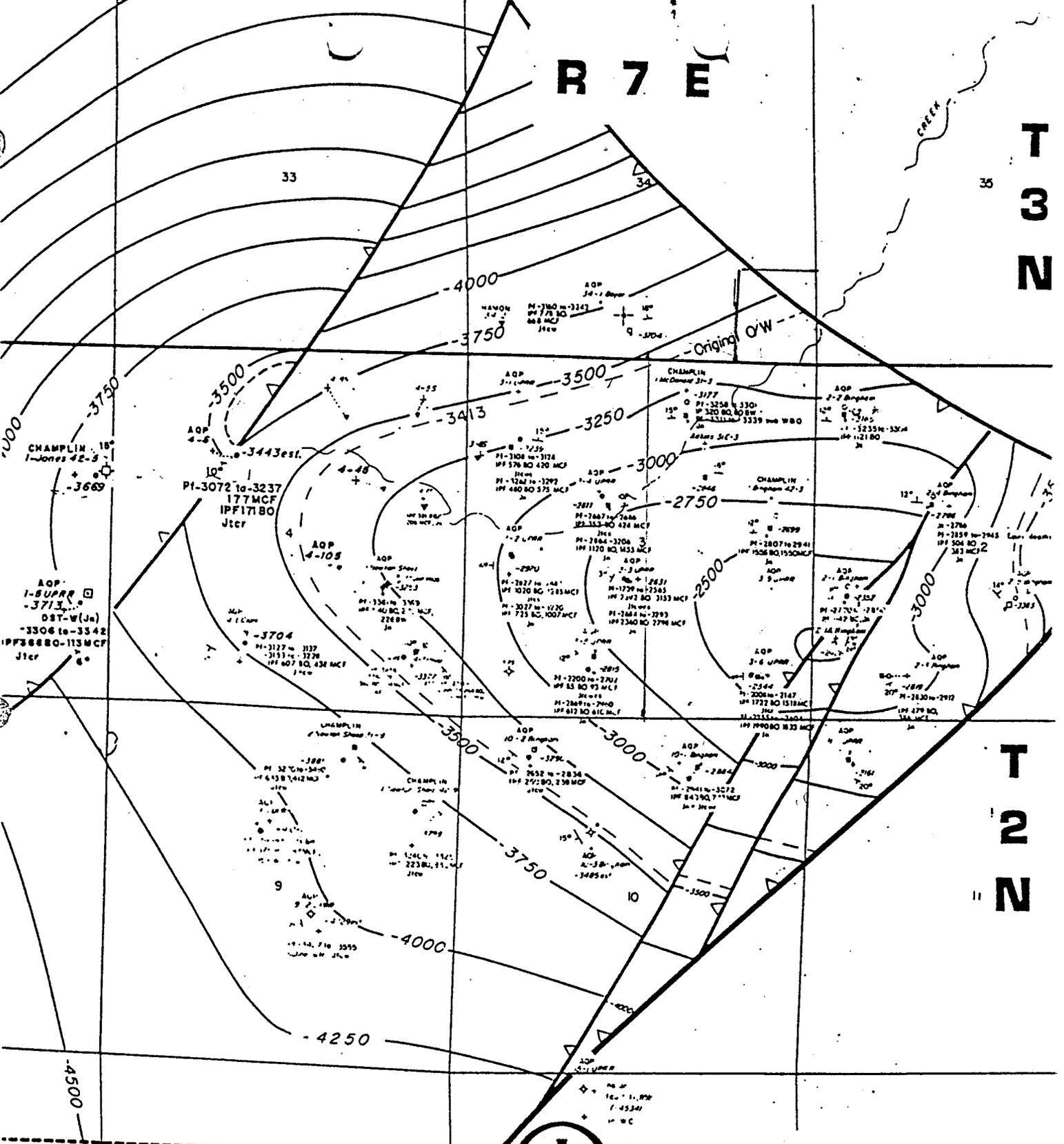


R 7 E

T 3 N

35

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T 2 N



AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO
 187 Office Bldg. Building 1700 Broadway, Denver Colorado 80202 Phone 303 691 0127

PINEVIEW AREA
 SUMMIT COUNTY, UTAH
 STRUCTURE CONTOUR MAP

ON NUGGET FORMATION
 C.I. : 250'

SCALE 1" = 2,000'

DATE	T. R. BLAZZARD	DATE	PREPARED	REVISED	9-13-83
BY		BY		BY	DM

EXHIBIT

*Doc# 82-066
 Adkins Exhibit 1*

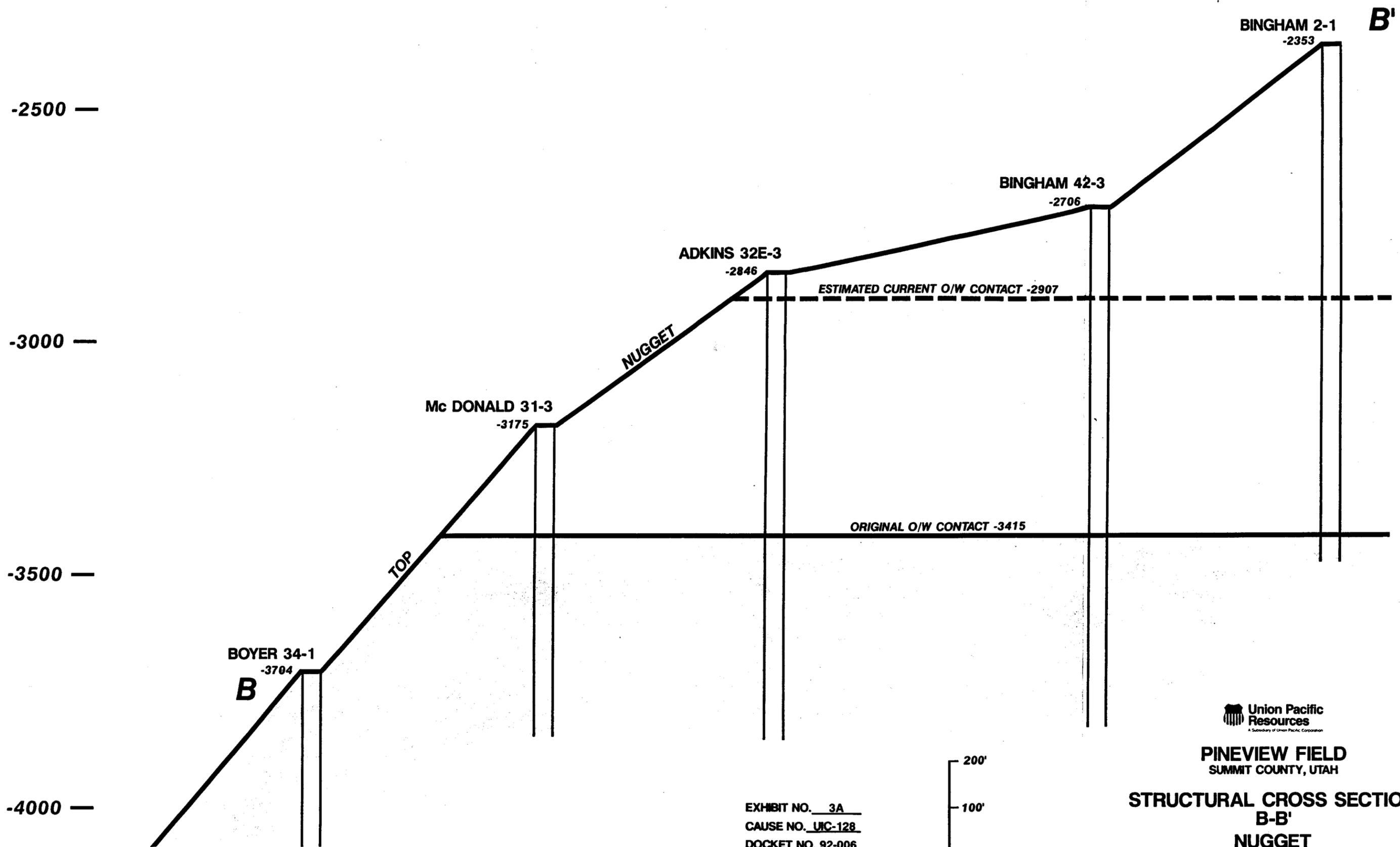
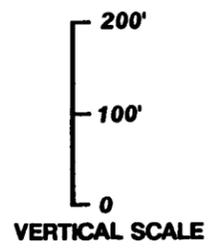


EXHIBIT NO. 3A
 CAUSE NO. UIC-128
 DOCKET NO. 92-006



Union Pacific Resources
A Subsidiary of Union Pacific Corporation

PINEVIEW FIELD
 SUMMIT COUNTY, UTAH

STRUCTURAL CROSS SECTION
B-B'
NUGGET

HORIZONTAL SCALE: NONE MARCH 1992

INJECTION WELL APPLICATION

CHECKLIST

Applicant: UPRC Well: B.A.BINGHAM #1

Location: section 2 township 2 NORTH range 7 EAST

API #: 43-043-30295 Well Type: disp.X enhanced recov.

If enhanced recovery has project been approved by the Board ? NA

Lease Type: FEE Surface Ownership: FEE

Field: PINEVIEW Unit: SUMMIT Indian Country: NO

UIC Form 1: YES Plat: YES Wells in AOR: 4P, 1A

Logs Available: NO * *see comments* Bond Log: NO * *see comments*

Casing Program: SUFFICIENT

Integrity Test: TO BE RUN AT CONVERSION

Injection Fluid: H2O

Geologic Information: NUGGET, INJECTION ZONE, TWIN CREEK CONFINING BED, OVERLAIN BY PREUSS SALT AND PREUSS

Analyses of Injection Fluid: YES Formation Fluid: YES Compat. YES

Fracture Gradient Information: YES Parting Pressure: 8590 AT NUGGET

Affidavit of Notice to Owners: YES

Fresh Water Aquifers in Area: Probably frontier and younger rocks + Alluvium

Depth Base of Moderately Saline Water: 3800 FEET

Reviewer: D. JARVIS Date: 02-10-92

Comments & Recommendations: SPOKE TO TED BROWN ON 2-10-92 AND INFORMED HIM WE NEED COPIES OF ALL LOGS, MIT AT TIME OF COMPLETION REQUESTING 13000 BWPD AT 2500 SURFACE PSI, 4600 BWPD AVERAGE.

All logs have been recieved:

FILED

MAR 23 1992

**SECRETARY, BOARD OF
OIL, GAS & MINING**

BEFORE THE BOARD OF OIL, GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH

IN THE MATTER OF THE)
APPLICATION OF UNION PACIFIC)
RESOURCES CO. FOR)
ADMINISTRATIVE APPROVAL OF)
BINGHAM & SONS #1 WELL IN)
SECTION 2, T. 2 S., R. 7 E.,)
S. L. M., SUMMIT COUNTY, UTAH,)
AS A CLASS II INJECTION WELL,)

NOTICE OF EXHIBITS OF UNION
PACIFIC RESOURCES CO.

Docket No. 92-006
Cause No. UIC-128

Applicant Union Pacific Resources Company ("Union Pacific"), by and through its undersigned counsel, hereby submits an original and twelve copies of the following exhibits:

- | | |
|------------|--|
| Exhibit 1 | Pineview Field, Summit County, Utah -
Structure Map, Top Nugget |
| Exhibit 2 | Pineview Field, Summit County, Utah -
Structural Cross-Section, A - A' |
| Exhibit 3 | Pineview Field, Summit County, Utah -
Structural Cross-Section, B - B' |
| Exhibit 3A | Pineview Field, Summit County, Utah -
Structural Cross-Section, B - B' Nugget |
| Exhibit 4 | Pineview Field, Summit County, Utah -
Evidence of Original Oil/Water Contact |
| Exhibit 5 | Pineview Field, Summit County, Utah -
History of Nugget Completions, N/2
Section 2 and 3 T2N R7E |
| Exhibit 6 | Pineview Field, Summit County, Utah -
Nugget Wells Currently Producing |

DATED this 23rd day of March, 1992.
VAN COTT, BAGLEY, CORNWALL & McCARTHY

By 
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CERTIFICATE OF MAILING

I hereby certify that I caused a true and correct copy of the within and foregoing NOTICE OF EXHIBITS OF UNION PACIFIC RESOURCES COMPANY to be mailed this 23rd day of March, 1992, to the following:

John Adkins, Jr.
462 North Main
P. O. Box 386
Coalville, Utah 84017



BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES AND ENERGY
IN AND FOR THE STATE OF UTAH

-oOo-

IN THE MATTER OF THE APPLICATION: DOCKET NO. 92-006
OF UNION PACIFIC RESOURCES : CAUSE NO. UIC-128
COMPANY FOR ADMINISTRATIVE :
APPROVAL OF THE BINGHAM AND SONS: :
#1 WELL LOCATED IN SECTION 2, :
TOWNSHIP 2 NORTH, RANGE 7 EAST, :
S.L.M., SUMMIT COUNTY, UTAH, AS :
A CLASS II INJECTION WELL. :
:

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On Wednesday, March 25, 1992, commencing at the
hour of 10:00 a.m., a hearing was held in the above
matter before the Board of Oil, Gas and Mining, 355 West
North Temple, 3 Triad Center, Suite 520, Salt Lake City,
Utah 84180-1203.

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A P P E A R A N C E S

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Brad G. Hill, Geologist
Lisha C. Romero, Administrative Analyst

Bureau of Land Management

Assad M. Raffoul, Petroleum Engineer

For the Applicant

H. Michael Keller
Attorney at Law
50 S. Main Suite 1600
Salt Lake City, Utah 84144

1 All right. You can always jump in later. Thank you.

2 Mr. Keller?

3 MR. KELLER: Thank you Mr. Chairman. We have
4 one witness today. Union Pacific Resources Company has
5 made the application to convert the referenced well to a
6 saltwater injection. That application was filed on
7 January 31, 1992 with the Division.

8 A protest was filed by Mr. John Atkins, who owns
9 lands within a half mile radius of the well. Notice was
10 given pursuant to the Division's regulations to all
11 owners, minerals and surface, within a half-mile radius
12 of the proposed injection well.

13 We have one witness, as I mentioned, Mr. Ted Brown
14 from Union Pacific Resources Company. He's just going
15 to put up his exhibits right now and then we'll proceed.

16 THE CHAIRMAN: Great.

17 MR. KELLER: We submitted some additional
18 exhibits that are in addition to those attached to the
19 application. And I assume that the Board has copies of
20 those and copies of the application itself.

21 THE CHAIRMAN: I know we have the application.
22 Here we are, we have got those.

23 MR. KELLER: Okay. We did not refile the
24 exhibits attached to the application with the exhibit
25 package, trying to keep paper to somewhat of a

1 minimum.

2 THE CHAIRMAN: Thank you.

3 Mr. Atkins, if you want to come up you may, if you
4 would like to be up at the front table. Or if you would
5 like to just observe from there, that's fine too.

6 MR. KELLER: Mr. Chairman and members of the
7 Board, my name is H. Michael Keller, attorney on behalf
8 of the Union Pacific Resources Company, who has made
9 application for administrative approval to convert the
10 Bingham and Sons #1 well to a saltwater injection well.

11 The well is located in the Pineview field near
12 Coalville, Summit County, Utah. It's located in Section
13 2, Township 2 North, Range 7 East. This will be a Class
14 II injection well, for the record. We have several
15 exhibits to go through. We will try make this as direct
16 and straightforward as possible.

17 Some of the issues may be a little complex, and we
18 have quite a bit of information on these exhibits. What
19 I would like to do is to have Mr. Brown basically carry
20 the day here and go through his background and
21 experience in Pineview, the nature of the field, the
22 history of the field, the production, saltwater
23 injection, activities in the field past and present.

24 He will review generally the exhibits and the basis
25 for the exhibits, and then specifically he will get into

1 the more technical aspects of where the original O/W
2 contact was in this field and where it is today, and
3 where the proposed injection well will inject into what
4 formation with what types of fluids. And he will also
5 testify as to the appropriateness of that injection
6 horizon and injection zone.

7 Basically the nugget is the producing -- one of the
8 producing formations out there. It produces a lot of
9 water, and they want to inject water back into it. And
10 that's what the proposal is today. The injection well
11 itself is located on lands owned by Mr. Bingham.

12 The protestant's lands are not involved with the
13 particular well; they are within a half-mile radius of
14 the well. And we will also put on evidence regarding
15 the position of Mr. Atkins' mineral estate. He owns
16 various surface lands in the field, but particularly he
17 has some mineral estate and we will focus on the
18 relationship of his -- position of his mineral estate
19 relative to the structure injection well and where the
20 water will be injected.

21 With that, I'd like to introduce Mr. Ted Brown,
22 Union Pacific Resources, and ask him to state his --

23 THE CHAIRMAN: We probably should get him
24 sworn.

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TED BROWN

called as a witness by and on behalf of the Applicant,
having first been duly sworn, was examined and testified
as follows:

EXAMINATION

BY MR. KELLER:

MR. KELLER: Thank you, Mr. Chairman. We weren't trying to hide anything.

THE CHAIRMAN: No, no.

Q. (BY MR. KELLER) Would you state your name for the record please.

A. My name is Ted Brown.

Q. And your employment?

A. I am employed as a staff petroleum engineer with Union Pacific Resources. I graduated from the University of Wyoming in 1977 with a degree in mechanical engineering. I have been a petroleum engineer in the oil and gas industry since 1978. I have held various engineering capacities as a production engineer, operations engineer and reservoir engineer.

Again, as I stated, I'm presently employed by Union Pacific Resources, which I joined in 1985. I have been involved with the Pineview Field from 1987 until present, with all facets of geology, reservoir management and mechanics, operations and production

1 engineering, as well as the ownership of minerals and
2 surface lands within the area.

3 Q. Mr. Brown, are you familiar with the various
4 production and saltwater injection wells in the field?

5 A. Yes, I am. The Pineview Field is located in
6 Summit County, Utah near Coalville, Utah. It was
7 discovered in 1974 by American Quasar. American Quasar
8 Petroleum was the operator of the field through the
9 development stages of that field, with Union Pacific
10 Resources as an active working interest owner.

11 In April 1985, Union Pacific Resources took over
12 operatorship of that field. And the field produces from
13 an anticlinal structure from primarily two formations,
14 the Nugget sandstone, which is aeolian or a wind-blown
15 sand dune deposit that's approximately a thousand feet
16 in thickness.

17 And the Nugget is a strong water drive reservoir
18 that has a flat all water contact. It is overlain by
19 the Twin Creek, which is a limestone dolomite deposit.
20 It is approximately 1,200 feet in thickness, that is a
21 combination of a water drive and solution gas drive
22 reservoir.

23 The Nugget has produced approximately 15 million
24 barrels of oil to date; Twin Creek has produced
25 approximately 10 millions barrels of oil to date. And

1 today the field produces approximately 1,000 barrels of
2 oil per day, 13,000 barrels of water and 1.5 million
3 cubic feet of gas. The remaining field life is
4 estimated at approximately 10 to 15 years.

5 Q. Mr. Brown, in your opinion is either the
6 Nugget formation or the Twin Creek formation an
7 underground source of drinking water?

8 A. No, it is not.

9 Q. They are both oil and gas producing
10 formations?

11 A. That is correct.

12 Q. Mr. Brown, could you give us an explanation and
13 summary of the history of saltwater production and
14 injection in the Pineview Field?

15 A. Since the Nugget is an active water drive
16 reservoir, American Quasar realized the need for
17 saltwater disposal in the field. And American Quasar
18 converted several wells in the field to saltwater
19 disposal by injecting into the Stump sandstone, which is
20 a formation that's approximately 6,000 feet in depth,
21 with injection also occurring into the Nugget, which is
22 approximately 9,500 feet to 10,500 feet in depth.

23 Injection continued into the Stump and Nugget over
24 the years, and the Stump began seeing signs of over
25 pressuring. That is, it was essentially filling up with

1 saltwater. And thereby Union Pacific Resources there
2 recognized the need to decrease the Stump injection and
3 essentially increase the injection into the Nugget.

4 This was specifically recognized by the Commission
5 in 1988 by a letter to Union Pacific Resources
6 requesting that we phase out Stump injection, with the
7 ultimate goal of ceasing injection entirely into the
8 Stump. And it is therefore clear to us that Stump
9 injection should not continue and that the Nugget --
10 injection into the Nugget is the most viable alternative
11 for that field. Approximately two thirds of the water
12 produced in Pineview comes from the Nugget formation.

13 At this time, Union Pacific Resources operates
14 three Nugget injection wells and three Stump injection
15 wells. The three Nugget wells are not capable of
16 handling current water volumes of 13,000 barrels per
17 day, thus requiring the need for another Nugget
18 injection well.

19 In addition, the saltwater produced in the field
20 will continue to increase, as evidenced in each strong
21 water drive reservoir. We are injecting fluids today
22 that consists of saltwater that is produced from the
23 Nugget and the Twin Creek formations, chlorides ranging
24 from 16,000 to 75,000 parts per million.

25 Q. Mr. Brown, when you made reference to the

1 Commission, were you referring to the Division of Oil,
2 Gas and Mining?

3 A. Yes, I was.

4 Q. Is the water that is being produced and is
5 being proposed to be reinjected in the Nugget compatible
6 with the water that's already in the Nugget?

7 A. Yes, it is.

8 Q. And as you indicated, two-thirds of that water
9 is from the Nugget in the first place?

10 A. That's correct.

11 Q. Mr. Brown, the well in question here is the
12 Bingham and Sons #1 Well. And could you give us a brief
13 explanation, summary of the history of that well, and
14 how it came to be drilled, it's current condition and
15 why it is proposed to be a saltwater injection?

16 A. The B.A. Bingham and Sons #1 well was drilled
17 by Exxon on a farm-out from the Pineview working
18 interest owners, to test the sub thrust Nugget in 1990.
19 That well turned out to be a dry hole in the sub thrust,
20 and Exxon thereby turned over the well bore to the
21 Pineview working interest owners.

22 Union Pacific Resources then tested the Nugget,
23 which turned out to be wet in that well. We then tested
24 the Twin Creek, which turned out either to be wet or
25 dry. And the well has been temporarily abandoned since

1 June of 1991. And since that time, Union Pacific
2 Resources has made plans to convert the well to a Nugget
3 saltwater disposal well.

4 Q. Mr. Brown, in your opinion, if injection were
5 not allowed into the Bingham well, what would be the
6 effect on the production in the field?

7 A. If we were required to shut in the Stump
8 injectors which are presently taking on the order of
9 three to four thousand barrels of water per day, we
10 would essentially have to shut in approximately 250 to
11 300 barrels of oil per day.

12 Q. Now Mr. Brown, would you describe the Union
13 Pacific's intent to convert the Bingham well and its
14 application for that purpose?

15 A. On January 31st, 1992, Union Pacific Resources
16 submitted a request for administrative approval to
17 convert the B.A. Bingham and Sons #1 well to a Nugget
18 saltwater disposal well under Rule 615-5. Notice was --
19 notice by certified mail was also given to all working
20 interest owners, as well as all surface owners within
21 one-half mile radius of the subject well. We have
22 attached all required technical information and diagrams
23 to that application.

24 MR. KELLER: I would move that the application
25 itself be admitted as evidence as Exhibit No. 7.

1 THE CHAIRMAN: All right. It's certainly part
2 of the record simply by the fact of it's filing, but
3 we'll note that officially.

4 MR. KELLER: And its attachments.

5 THE CHAIRMAN: And the attachments?

6 MR. KELLER: Right.

7 THE CHAIRMAN: All right.

8 MR. KELLER: And as point of clarification, I
9 believe that the Board has all of the attachments, with
10 the exception of the exhaustive well log data that would
11 have been submitted together with it.

12 THE CHAIRMAN: I think that's probably true.

13 MR. KELLER: Someone from the staff can advise
14 you on that, but I doubt if that's been attached.

15 THE CHAIRMAN: I don't see anything that
16 looked like exhaustive well log data.

17 MR. KELLER: I would like to have Mr. Brown
18 just briefly summarize the exhibits that we have
19 submitted to the Board and Division, in addition to the
20 application at this time.

21 THE WITNESS: We have submitted seven exhibits
22 today. Exhibit 1 is a structure map showing the top of
23 the Nugget formation in the Pineview field. Exhibit 2
24 and 3 are Nugget log structural cross sections that
25 essentially cover the entire field. Exhibit 3(A) is a

1 structural schematic of the Nugget. Exhibit 4 is
2 essentially evidence of the original O/W contact in the
3 Nugget.

4 And Exhibit 5 is a history of the Nugget
5 completions, the north half of Section 2 and 3, Township
6 2 North, Range 7 East, which is in the vicinity of the
7 B.A. Bingham and Sons #1 well. And Exhibit 6
8 illustrates the Nugget wells that are currently
9 producing in the field.

10 Q. (BY MR. KELLER) Were these exhibits prepared
11 by you or under your direction?

12 A. Yes, they were.

13 Q. And were they based on data that is available
14 on records that have previously been filed with the
15 Division of Oil, Gas and Mining?

16 A. That is correct; all data has been filed with
17 the Division of Oil, Gas and Mining.

18 MR. KELLER: I would like to move the
19 introduction of Exhibits 1 through 6.

20 THE CHAIRMAN: All right, let me ask
21 Mr. Atkins, have you had an opportunity to review the
22 exhibits or, I think.--

23 MR. ATKINS: No, we haven't.

24 THE CHAIRMAN: Would you like to see them? I
25 think Mr. Brown is going to go through them. And

1 perhaps what I ought to do is take your offer into
2 evidence -- postpone accepting them into evidence until
3 you testify as to them and Mr. Atkins has had a chance
4 to ask his questions.

5 MR. KELLER: That's fine.

6 THE CHAIRMAN: And Mr. Bingham.

7 MR. ALBERT BINGHAM: Suppose we object, what
8 happens?

9 THE CHAIRMAN: Well, what we'll do here is
10 we'll let Mr. Keller and Mr. Brown put on their case,
11 essentially, to convince us that this ought to be
12 approved. When Mr. Brown has finished testifying, then
13 anyone else who wants to ask him questions, you and
14 Mr. Atkins, can ask Mr. Brown any questions you would
15 like to ask. And when they have completed their cases,
16 then you would have an opportunity to essentially
17 testify to us and explain to us your concerns.

18 MR. EARL BINGHAM: We didn't bring a lawyer.
19 Last time I hired a lawyer he sent me a big bill for
20 something he did. So I said when I'm out riding for
21 cattle, if I find a cow bearing someone else's brand I
22 turn it over to them. So we didn't bring no lawyers.

23 THE CHAIRMAN: And I don't think you need
24 one. I think all you'll need to do is listen to what
25 Mr. Brown has to say and then ask him questions. What

1 we're going to be looking for here is whether the
2 application to inject -- or whether the water can be
3 injected without injuring either ground water, fresh
4 water sources, or oil and gas production or other
5 mineral interests. So Mr. Brown will be available to
6 answer technical questions and then we'll take your
7 argument or testimony with regard to your concerns as
8 well. But you won't need to have a lawyer to proceed.

9 MR. EARL BINGHAM: That's good.

10 MR. KELLER: As a point of clarification and
11 maybe argument on my behalf, the basis for -- and you
12 don't need to take my legal advice on this --

13 THE CHAIRMAN: Go ahead, please correct me.

14 MR. KELLER: -- as free as it may be. But the
15 basis for objecting to an exhibit would be that we
16 didn't prepare it properly or that it wasn't based on
17 information that was available to us. The accuracy of
18 the exhibit can always be contested. The only issue is
19 whether it can be introduced into evidence and be
20 considered.

21 The Board will have to decide whether they believe
22 what the exhibit shows and whether the evidence is
23 credible. The only issue for introduction is whether
24 it's relevant to what we're talking about today, and
25 secondly was it prepared by the witness? And as he

1 testified that it was based on information that was
2 recorded in the field and has been provided to the
3 agency --

4 THE CHAIRMAN: Right, and I --

5 MR. KELLER: I'm sorry.

6 THE CHAIRMAN: No, to clarify, my only
7 hesitancy in admitting these exhibits immediately,
8 because I believe Mr. Brown has testified that he
9 prepared them and they appear to be relevant, even
10 though he hasn't testified to them yet, is that you all
11 have not had a chance yet to see what they are.

12 But I anticipate they will be admitted, unless as
13 Mr. Keller pointed out, it can be shown that they are
14 not relevant to our considerations here or that the
15 information is somehow inaccurate or flawed in some way
16 or another. But we'll go through the exhibits first and
17 then allow you to ask your questions, and then we'll
18 determine whether they should be admitted.

19 MR. KELLER: I would like to ask Mr. Brown to
20 testify now as to the current status of the O/W contact
21 for one of the technical particulars of the reservoir
22 and the structure and the water drive mechanism, and
23 where the Bingham well is bottomed in the Nugget
24 formation.

25 He is going to stand up and point to the larger

1 copies of the Exhibits 1 through 6 that are put on the
2 board. I don't know if he should have a microphone with
3 him or not.

4 THE CHAIRMAN: Maybe if you don't mind
5 carrying it with you, just to make sure that everyone in
6 the back can hear. Oh, do we have our little portable?
7 No, it gave up the ghost.

8 MR. ALBERT BINGHAM: Can't hear back there.

9 THE CHAIRMAN: Right, we want to make sure
10 everyone can hear; especially the recorder.

11 THE WITNESS: This is Exhibit 1; it is a
12 structure map showing the top of the Nugget formation,
13 showing subsea elevations. And as we have drawn in here
14 on this map, we have the original O/W contact showing
15 the dotted line here at minus 3415. And what we believe
16 to be the estimated current O/W contact today of minus
17 2907, also drawn in on a dotted line on this map.

18 The Bingham and Sons #1 well is located in the
19 northwest quarter of Section 2, as you can see on this
20 map, just below the A prime. Mr. Atkins' mineral estate
21 is located in the southeast -- southeast of Section 4,
22 as shown in the shaded areas of the map.

23 What I'm going to try to do with the remaining
24 exhibits as I go through them is point out that the
25 original O/W contact was established in the field at

1 minus 3415, and then over time has risen over 500 feet
2 to approximately minus 2907. And that this contact
3 essentially is such that water injected into the Bingham
4 and Sons #1 Well will not affect any of the mineral
5 estates surrounding Mr. Atkins.

6 Exhibits 2 and 3 are log cross sections. And they
7 are essentially from A to A prime, which is Exhibit 2,
8 and from B to B prime, which is Exhibit 3. From A we
9 start off with the Newton Sheep, 42-9 well. Then we go
10 to the Bingham 10-2 well, the 3-5 well, 3-3 well, the
11 Bingham 42-3, and the Bingham and Sons #1 well, which is
12 the well in question.

13 The original O/W contact on Exhibit 2 and is 3
14 shown by the lower blue line, and what we believe to be
15 the estimated current O/W contact is shown by the upper
16 blue line. What these cross sections are telling us is
17 that we can calculate where the original O/W contact was
18 in the field, just based on logs alone.

19 And also we have detailed completion histories
20 shown in the middle tract on both Exhibits 2 and 3,
21 which detail the completion histories of these wells.
22 And I'm not going to go into detail of every single well
23 completion history, but what I will do in later exhibits
24 will point out the most pertinent wells and how they
25 become to determine the original O/W contact. One

1 thing that I will mention is that the Bingham and Sons
2 well is at a subsea datum, with the top of the Nugget at
3 minus 2964, which is approximately 50 feet below where
4 we think the estimated current O/W contact is today at
5 minus 2907.

6 And I'll move over to Exhibit 3(A). And what this
7 is, is just a schematic showing the anticlinal structure
8 of the Nugget formation using a B, B prime, what we had
9 shown earlier on the cross sections, starting with the
10 Boyer 34-1, coming up to the McDonald, the Atkins 32-3E,
11 the Bingham 42-3 and the Bingham 2-1. And again, I
12 failed to mention that on this exhibit here, the same
13 thing is showing the Boyer, the McDonald, the Atkins,
14 the Bingham and the Bingham 2-1.

15 Q. You were referring to Exhibit 3?

16 A. Correct. The original O/W contact again is
17 drawn in here on the lower line at minus 3415, and the
18 estimated current O/W contact at minus 2907. The
19 mineral estate in question, although not illustrated on
20 Exhibit 3(A), would fall approximately in this area
21 here.

22 The Bingham and Sons #1 well, the injection well in
23 question, on this map would fall approximately in here
24 at minus 2964 subsea data. So again, you can see that
25 it is above the original O/W contact, but yet below

1 where we think the contact is today.

2 Q. Mr. Brown, when you were referring to the
3 mineral interest in question, are you referring to
4 Mr. Atkins mineral interest?

5 A. That's correct.

6 Q. That you have identified as the stipulated
7 area on Exhibit 1?

8 A. That is correct.

9 A. Please refer to Exhibit 4, which is entitled
10 Pineview Field, Summit County, Utah, Evidence of
11 Original O/W Contact. It is an eight and-a-half by
12 eleven sheet of several wells. What Exhibit 4 is trying
13 to illustrate is the evidence of the original O/W
14 contact in the Pineview Field, through a log analysis
15 and through well tests.

16 The Pineview Field was discovered in 1974 by
17 American Quasar, with the drilling of the Newton Sheep
18 #1 well, located in Section 4, Township 2 North, Range 7
19 East. And that well on log calculations, looking at
20 Exhibit 4, at a minus -- subsea of minus 3415
21 illustrates that the water saturation calculates to be
22 80 percent. And quickly, upon observing logs real
23 quickly, calculate a hundred percent just below that
24 point, thus that's where the 3415 number has come in to
25 the Pineview field from the discovery.

1 And we can follow that up with an actual well test
2 of the Newton Sheep #1. As illustrated on Exhibit 4,
3 the Newton Sheep #1 conducted a cased hold DST at a
4 minus subsea depth of 3438. And it recovered 540 feet
5 of oil and gas cut mud, 8,886 feet of gas and oil cut
6 water. So that is where the original O/W contact number
7 came from to begin with in the Pineview Field, was from
8 this American Quasar Newton Sheep #1 well.

9 And it's confirmed not only with log analysis, but
10 by well tests also. And to further back that up, the #1
11 McDonald well, which is located in Section 3 of 2 North,
12 7 East, also has log calculations and well tests to back
13 up that original O/W contact. That well was drilled in
14 1976. And if you interpret -- I should say the
15 interpreted water zone at minus 3473, it calculates 100
16 percent water saturation, again backing up the minus
17 3415 number.

18 The McDonald well on the cross section of Exhibit
19 No. 3 is shown here. And that DST that occurred on this
20 well was from 10,072 feet to 10,200 feet, where they
21 recovered 90 feet of mud and 1,370 feet of water.
22 Again confirming your O/W contact. The Boyer 34-1 well
23 calculates 100 percent water saturation at a subsea
24 depth of minus 3730.

25 That well is located in Section 34 of 3 North, 7

1 East, adjacent to Mr. Atkins' minerals. And although
2 there were not any tests ran in that well, it calculates
3 100 percent water saturation. And as you can see on
4 Exhibit 3, it is below the original O/W contact.
5 That is the reason why no tests were run on that well.

6 An additional well test to back up this contact is
7 the UPR 3-4 well. It's also located in Section 3 of 2
8 North, 7 East. And that well has subsea depth of minus
9 3443. They perforated the well and they swabbed ten
10 barrels of oil and 94 barrels of water. So essentially
11 what Exhibit 4 is trying to stress that the original O/W
12 contact was indeed proved, not only with well log
13 analysis, but also with actual well tests in the field.

14 Exhibit 5 is entitled Pineview Field, Summit
15 County, Utah, History of Nugget Completions, North Half
16 of Section 2 and 3, Township 2 North, Range 7 East. And
17 essentially what this exhibit is trying to prove is that
18 the O/W contact has moved approximately 500 feet over
19 time. And this is actually a chronological history of
20 the completions of wells in and around this area of the
21 field.

22 The McDonald #1 well, as I have mentioned earlier,
23 was brought on production in May of 1976; a water-free
24 completion. It has produced -- it produced 128,600
25 barrels of oil. And its final rate was 12 oil, 1,678

1 barrels of water per day, and a 99 percent water cut.
2 That is, out of 100 barrels of production, 99 of that
3 was water. And that final production on that well was
4 in September of 1981.

5 The Bingham 42-3 well was then brought on in 1976,
6 again a water-free completion. And it's still producing
7 today. It is also in Section 3. It's produced almost
8 three million barrels of oil and currently has a 94
9 percent cut. Again a water-free completion initially,
10 now it's producing 94 percent water. Again, evidence
11 that the contact has moved up over time.

12 The Bingham 2-2 well, located in Section 2, 2
13 North, 7 East, was brought on in 1977, again a water-
14 free completion in the Nugget. It produced 188,000
15 barrels of oil before being shut in in July of '83 at a
16 98 percent water cut. The Bingham 2-4 well completed
17 March '78, again a water-free completion, has produced
18 350,000 barrels of oil to date and it's currently
19 producing at a 97 percent water cut.

20 Now, the Atkins #1 well located in Section 3, 2
21 North, 7 East, was completed in October of 1980. But it
22 was not a water-free completion in the Nugget. It
23 I.P.'d at 186 oil, 791 water. So what this is telling
24 us is that the field was discovered in 1974, and by 1980
25 the contact had already reached the Atkins well. It had

1 already moved that far up dip. That well produced
2 82,600 barrels of oil and was shut in August 1984 at a
3 99 percent water cut.

4 The Bingham and Sons #1 well located in Section 2,
5 again was attempted to complete in the Nugget shown on
6 Exhibit 2. The lower perforations in the Nugget swabbed
7 nine hours, 260 oil -- 260 barrels of water, no
8 oil. And then we set a bridge plug and came up to the
9 upper part of the Nugget. We perforated that, we
10 swabbed ten hours, 265 water with very little oil,
11 approximately one to two percent cut.

12 So you can see how, over time, the O/W contact has
13 moved from the original spot to approximately 2907. And
14 this is -- it's probably higher than that today. But
15 the fact that the Atkins well was the last well that was
16 essentially tested, or I should say the highest water
17 tested in the field, suggests to me that the cut -- or
18 that the O/W contact is probably much higher than this.
19 Especially when you have wells like the Bingham 42-3
20 well that is producing at a 94 percent cut.

21 Q. Mr. Brown?

22 A. Yes.

23 Q. When you refer to the Atkins well, we are not
24 talking about a well on the Atkins mineral interest, are
25 we?

1 A. That's correct. The Atkins 32-E3 is located
2 in Section 3. Union Pacific Railroad has the mineral
3 interest on that well.

4 Q. The surface owned by Mr. Atkins?

5 A. That is correct.

6 A. Exhibit 6 is a summary of the Nugget wells
7 that are currently producing in the field. Those
8 locations are illustrated on Exhibit 6. And you can see
9 the oil rates, water rates, gas rates and the water cuts
10 ranging from 84 percent in the Bingham 2-1A, to as high
11 as 97 percent in the 2-3 well and 2-4 well.

12 So combining Exhibits 5 and 6 together, one can
13 conclude that the original O/W contact has moved up dip
14 at least 500 feet and probably higher. And that
15 injecting water into the Bingham and Sons #1 well is not
16 going to adversely affect surrounding mineral interests,
17 in that we're pulling the water out of the Nugget,
18 producing the water out of the Nugget, and we're going
19 to put the water back into the Nugget.

20 MR. CHRISTENSEN: Mr. Brown, how many
21 injection wells in the -- I was wondering how many
22 injection wells there are in this field?

23 THE WITNESS: There are currently three Nugget
24 injectors that are active and three Stump injectors that
25 are active. Of the Nugget injectors, one is located in

1 Section 4, is the Clark 4-1. Another Nugget injector is
2 the UPRR 5-1, located in Section 5, and the McDonald
3 31-3 well located in Section 3. All three of those
4 wells are Nugget injectors.

5 The Stump injectors that are active today are the
6 UPRR 3-5 well located in Section 3, the Bingham 10-3
7 well located in Section 10, and the UPRR 11-1 well
8 located in Section 11. All these wells in Township 2
9 North, Range 7 East.

10 THE CHAIRMAN: Let me ask a question. I think
11 this may be for the benefit of Mr. Atkins and Messrs.
12 Bingham. But with regard to the Atkins mineral interest
13 to the north, I gather that based on your interpretation
14 of the location of the O/W contact, even in its original
15 position, that those -- the nugget there was under water
16 --

17 THE WITNESS: That is correct.

18 THE CHAIRMAN: -- in that area, and your
19 testimony essentially is that it's more under water now
20 than it was then?

21 THE WITNESS: That is correct.

22 Q. (BY MR. KELLER) Mr. Brown, I would like to
23 talk to you now a little more specifically about the
24 well bore itself. With respect to the -- you testified a
25 to the drilling of the Bingham and Sons #1 well that was

1 drilled in 1990. It is a relatively recent well. Has
2 an integrity test been performed on that well, and if
3 so, what were the results of that test?

4 A. Yes, an integrity test on the casing has been
5 performed on that well. It is a new casing. We did
6 pressure up that casing to 1,000 psi and it did test
7 good.

8 Q. And was there a cement bond log done on the
9 well also?

10 A. Yes, there also was a cement bond log, cement
11 evaluation tool run on that well, and it also showed
12 excellent bond across the Nugget and across the Twin
13 Creek.

14 Q. And we're referring to the tests run on the
15 proposed injection well itself. One of the other
16 technical requirements for an injection well is that an
17 analysis be done of the fractured gradient; when was
18 that performed and if so, what were the results?

19 A. Yes, that was performed. In the application
20 we concluded that at the average injection pressure of
21 approximately -- or I should say maximum injection
22 pressure of 2,500 psi, an average injection rate of
23 4,600 barrels of water per day, we concluded that we
24 would be approximately 1,900 psi below the fracture
25 pressure.

1 Q. So in other words, they tested the receiving
2 Nugget formations to see how easily it would fracture,
3 and it would not fracture at pressures within 1,900 psi
4 of the proposed maximum injection pressure?

5 THE CHAIRMAN: Mr. Keller, I am going to let
6 Mr. Bingham ask a question before he loses his train of
7 thought.

8 MR. EARL BINGHAM: Is this well you are
9 talking about the one Exxon drilled?

10 THE WITNESS: That is correct.

11 MR. EARL BINGHAM: Now, Exxon when they was
12 drilling that well they found -- at a certain level they
13 found oil. But they went on deeper because they didn't
14 have a contract to get oil there, but they didn't find
15 any oil deeper. So when you put this water in there,
16 you are going to raise it up to this level and then get
17 some more oil I expect?

18 THE WITNESS: When Exxon drilled that well, if
19 they encountered any shows of oil and gas that they
20 weren't entitled to it was probably out of the Nugget or
21 the Twin Creek, which is very common. And we tested
22 that entire well bore from the bottom of the Nugget all
23 the way up to the top of the Twin Creek, and we could
24 not find any commercial oil production.

25 We did have shows of oil out of the Twin Creek, but

1 there again it was very limited. It was a very tight
2 reservoir and it was uneconomic to produce. And believe
3 me, we tried to establish oil production in that well.
4 If there's anything else we want at Pineview, it's
5 additional oil production.

6 MR. EARL BINGHAM: When we used to grow beets,
7 we hauled them to the dump. And if we got a tare, well,
8 we had to haul the tare back home. We sent the sugar
9 beets to the factory to make sugar out of them. But now
10 you have got this well and you have got to get rid of
11 some tare. We had to haul that back home, so maybe you
12 better haul it somewhere else.

13 THE WITNESS: Well, it's going back into the
14 formation it came out of, Mr. Bingham.

15 MR. EARL BINGHAM: I don't care about that.
16 We could haul that back on the field too, but we took
17 the profit and it sent it away. And we did haul the
18 tare back, but it cost us money.

19 THE WITNESS: It's costing us money to dispose
20 of water in Pineview.

21 MR. EARL BINGHAM: So we want some figures
22 showing that we get something out of this.

23 Q. (BY MR. KELLER) Do you have a service
24 agreement with Mr. Bingham with regard to the use of
25 this well?

1 A. Yes, we do.

2 Q. In addition to providing a mechanism for
3 disposing of produced water, the lion's share of which
4 comes from the Nugget, will this also have a beneficial
5 effect on production?

6 A. Yes, it is very possible that it would have a
7 beneficial effect on production, in that the water that
8 is injected into the Bingham and Sons well will most
9 likely travel toward the pressure sinks in the field;
10 that is, the producing wells in the field. And we're
11 hoping to provide some type of secondary recovery
12 effect, additional sweeping action if you will, by this
13 injection.

14 Q. So that the injected waters would be, in your
15 opinion, expected to move towards the production sinks?

16 A. That is correct.

17 Q. And then away from Mr. Atkins' mineral
18 interest?

19 A. That is correct.

20 MR. ALBERT BINGHAM: Maybe you ought to haul
21 it down to Salt Lake; it's already salty.

22 THE CHAIRMAN: Mr. Bingham, if you have got
23 more testimony and so forth it would be helpful if you
24 came up and spoke into the mike so that our reporter can
25 get it all. But we'll play it by ear and see if you

1 have got more comments.

2 Okay Mr. Keller.

3 MR. KELLER: I'm almost done.

4 THE CHAIRMAN: Okay.

5 Q. (BY MR. KELLER) Let's finish with a couple of
6 questions. Why don't you return to your seat.

7 A. Okay.

8 Q. Mr. Brown, based on your review of the records
9 and exhibits that you have provided here today, do you
10 feel that the approval of the Bingham and Sons #1 well
11 saltwater injection would have any adverse impact on an
12 underground source of drinking water?

13 A. No, I do not.

14 Q. And neither the injection zone, being the
15 Nugget formation, nor the overlying formation, are
16 underground sources of drinking water; is that correct?

17 A. That is correct.

18 Q. In your view, would there be -- in your
19 opinion would there be any adverse effect as a result of
20 this proposed injection well on oil and gas production
21 from the Pineview field?

22 A. No, there would not be any adverse effect on
23 production.

24 Q. And would there be any adverse effect as a
25 result of this injection on any of the mineral estate of

1 Mr. Atkins?

2 A. No, there would not.

3 MR. KELLER: Thank you very much.

4 THE CHAIRMAN: All right, here's how we'll
5 proceed now. I would like to allow Mr. Atkins the first
6 chance to ask Mr. Brown any questions he's got,
7 questions on the exhibits or any of his testimony.
8 We'll do questions first, and the same for both Messrs.
9 Bingham.

10 And then after you have got all the questions
11 answered that you wanted answered by Mr. Brown, I'll let
12 you make statements or argument, whatever you would like
13 to do next. But let's stay initially with just
14 questions for Mr. Brown. And Mr. Atkins, I'll let you
15 start. I probably should have you come up, just to make
16 sure we get a clear record.

17 MR. MITCHELL: Mr. Chairman, are all witnesses
18 going to be sworn?

19 THE CHAIRMAN: I was just asked that question.
20 At this point I think we have just got questions for the
21 witness. And I will ask you three gentlemen, and anyone
22 else who wants to testify, to stand up and be sworn in
23 order to make your statements. But I think for the time
24 being -- Dr. Nielson?

25 DR. NIELSON: Mr. Chairman, to the extent that

1 questions could turn into statements, I would like to
2 recommend that we simply swear the inquirers at this
3 point.

4 THE CHAIRMAN: We have got lots of procedure
5 going on here. Let's do that. If you don't mind, I
6 would like to have you three gentlemen stand up and be
7 sworn in, so that any argument or statement you want to
8 make, we'll have legitimately on the record.

9 If you don't care to make a statement, that's okay.
10 (Whereupon, the witnesses were duly sworn.)

11 EXAMINATION

12 BY MR. ATKINS:

13 Q. Mr. Brown, on your map up there you show that
14 the original oil-to-water contact line basically
15 followed the section line or township line and totally
16 missed my mineral estate; is that correct?

17 A. That is correct.

18 Q. I have a structural map here made in 1983 by
19 American Quasar, dated September 13, 1983, that shows
20 the original oil-to-water contact line did enter my
21 mineral estate and did cross that mineral estate.

22 THE CHAIRMAN: Why don't you let Mr. Brown
23 take a look at that and see if he can explain what that
24 appears to show.

25 THE WITNESS: Well, essentially what this map

1 is showing is -- that's correct, the original water
2 contact, they did establish it. It's shown on this map
3 here at minus 3414. And one thing that this map is
4 doing, if I might point out here on my exhibit --

5 THE CHAIRMAN: All right.

6 MR. MITCHELL: Mr. Chairman, can the Division
7 staff have an opportunity to review these documents?

8 THE CHAIRMAN: Certainly.

9 MR. MITCHELL: Do you have a copy of that?

10 THE CHAIRMAN: This appears to be the only
11 one, so we'll let Mr. Brown finish and let you take a
12 look at it.

13 THE WITNESS: Okay, essentially what it is
14 showing is the O/W contact is coming through the land
15 here and essentially intersecting it like this. That it
16 is curving up. And then that this fault, this fault
17 does not extend this far to the west. This fault
18 essentially turns up like this, and therefore you don't
19 have a flat structure or somewhat of a flat structure
20 like I'm showing here, it's a little more turned.

21 This fault has been confirmed since 1983. Not only
22 through seismic, but also we confirmed the existence of
23 this fault when Exxon drilled the Bingham and Sons well
24 they crossed that fault. And so that confirmed where
25 this fault lies. And therefore a map that is dated

1 1983, we have additional information, one with seismic
2 and then the other one with an additional well that was
3 drilled out there.

4 THE CHAIRMAN: All right.

5 And Mr. Atkins, could our engineer, Ron Firth, take
6 a look at that map too?

7 MR. ATKINS: You bet.

8 THE CHAIRMAN: All right, let's do that.
9 Further questions? Mr. Atkins, anything further for
10 Mr. Brown? We'll have an opportunity for you to make
11 statements and so forth.

12 MR. ATKINS: I don't think so, not at this
13 time.

14 THE CHAIRMAN: Dr. Nielson?

15 DR. NIELSON: Mr. Chairman, could I ask
16 Mr. Atkins if he knows what the basis of the geologic or
17 geophysical basis for the construction of this map was?
18 I guess I'm trying to find some documentation in terms
19 of who created the map and what the basis for the
20 structure contour was at the time, and if there's
21 information that has been developed since that time that
22 lends some validity to the map that Union Pacific
23 Resources is presenting at this hearing. We have got a
24 piece of technical evidence here without substantiation.

25 THE CHAIRMAN: All right, I think -- let me

1 give that a stab as to what I think my understanding is.
2 I don't believe Mr. Atkins is a petroleum engineer,
3 although I could be wrong.

4 MR. ATKINS: No.

5 THE CHAIRMAN: I anticipate that this
6 information he was provided by his lessees in 1983 or
7 prior. And I think Mr. Brown's testimony was
8 essentially that that was a legitimate structural
9 interpretation in 1983, prior to the drilling of the
10 Bingham and Sons well, the well we're talking about
11 here. Which based on data from that well, Mr. Brown's
12 testimony is that this map represents his current
13 interpretation of the structure and the location of the
14 fault. Now, that's a guess, but I thought that's what I
15 heard.

16 MR. KELLER: That's what I heard, Mr. Chairman.
17 And we have no objection to the introduction of that, on
18 the basis that it was provided to Mr. Atkins and that it
19 is a 1983 interpretation of structure in the field. We
20 won't object to that.

21 THE CHAIRMAN: And I understand Dr. Nielson is
22 asking about the basis, the source of the data and so
23 forth. I'm not sure we need to know specifically, if
24 Mr. Keller has no objection to allowing that to become
25 part of the record.

1 DR. NIELSON: That's fine, I just wanted to
2 clarify that for the record.

3 THE CHAIRMAN: Okay. And I suppose we could
4 have a dispute about geology, because none of us can see
5 exactly what's under the ground.

6 I want to give anyone else an opportunity to ask
7 Mr. Brown questions while we've got him on the hot seat
8 here.

9 Mr. Bingham?

10 MR. ALBERT BINGHAM: I would like to know if
11 the water that you are injecting into this well comes
12 from the wells on the whole area or just the wells on
13 the B.A. Bingham and Sons.

14 THE CHAIRMAN: All right, Mr. Brown?

15 THE WITNESS: The saltwater that would be
16 injected into the Bingham and Sons well will come from
17 all wells within the Pineview Field.

18 THE CHAIRMAN: So it would include lands that
19 are not included within your lease area?

20 MR. ATKINS: In the Lodge Pole field.

21 THE CHAIRMAN: Is that correct that it would
22 include water produced from the Lodge Pole field as
23 well?

24 THE WITNESS: That is correct. We operate
25 currently one well that is active in the Lodge Pole

1 field. It produces approximately 30 barrels of water
2 per day and 15 barrels of oil per day.

3 THE CHAIRMAN: All right, anything further? I
4 think I sense here a concern about your contractual
5 relationship and --

6 MR. ALBERT BINGHAM: What I would like to know
7 is, is this well -- is putting water down this well
8 going to be an asset to us? If it is, then the water
9 you are putting down from other wells, there ought to be
10 some compensation.

11 THE CHAIRMAN: I think that's where I was
12 headed. And I think the extent -- and I think -- let me
13 try this, and we'll let Mr. Keller address this too.
14 But there's probably a contractual relationship between
15 you as the landowners, and the operators of the well,
16 that would govern the extent to which there is or isn't
17 compensation for injection.

18 And the Board, although the matters you heard
19 earlier this morning were contract issues, the Board
20 makes it a practice to not attempt to arbitrate contract
21 disputes. Our charge is primarily to insure that
22 mineral interests are protected, that correlative rights
23 are protected.

24 We want to encourage oil and gas production to the
25 extent that we can do that consistent with the

1 production of mineral interests. Having said that, let
2 me let Mr. Keller respond to your concern about that. I
3 understand exactly what you are saying.

4 MR. KELLER: There is a surface agreement
5 between Mr. Bingham and the Union Pacific Resources
6 Company relative to saltwater disposal, that's not in
7 evidence here today. But there is an agreement. If
8 there's some question that he has about it, we'd be
9 happy to discuss it with him.

10 THE CHAIRMAN: So there is a contract in
11 there. Any questions from the Board for Mr. Brown?

12 MS. LEVER: I have a question for Mr. Brown.
13 Based on the map that Mr. Atkins has given you, that
14 there was some suggestion that the original contact of
15 the oil and gas did go up through his property, and that
16 with your testimony that wherever it was it's risen 500
17 feet, what is the impact on his mineral -- what would
18 you say is the impact on his mineral interest by you
19 putting more saltwater down into the formation?

20 THE WITNESS: We are essentially withdrawing
21 water from the Nugget and we're essentially putting
22 water back into the Nugget where it came from. And
23 we're hoping for, like I mentioned earlier, perhaps even
24 secondary recovery operation, in that putting water into
25 the Bingham and Sons well will hopefully provide

1 secondary recovery to those Nugget producers that are
2 south of that well.

3 And we do not see any adverse effects on Mr. Atkins'
4 mineral estate by injecting water. The water has always
5 been there, and -- it is our interpretation -- and will
6 always be there is our interpretation. And the water
7 continues to rise -- or I should say the contact
8 continues to rise in that field and will do so as long
9 as you produce those wells.

10 THE CHAIRMAN: Let me ask a question. This is
11 not evidence that's been presented yet, but is the field
12 unitized?

13 THE WITNESS: It is not.

14 THE CHAIRMAN: It's not unitized? Okay,
15 further questions?

16 The other Mr. Bingham.

17 MR. EARL BINGHAM: Brigham Young taught the
18 Mormons how to run water up hill. And I think this
19 happens, especially under pressure. So maybe these
20 boys' argument is all wrong.

21 THE CHAIRMAN: I think Mr. Brown's saying it
22 is going up, sort of.

23 If there are no further questions for Mr. Brown, I
24 want Mr. Atkins to have an opportunity to make a
25 statement and both Messrs. Bingham.

1 Ms. Lever?

2 MS. LEVER: Mr. Brown, with your experience,
3 is there any support to a theory that by putting more
4 water into there, that it would be diluted, the amount
5 of mineral that he could withdraw, if he were to drill a
6 well?

7 THE WITNESS: No, I don't see how it possibly
8 could. Again -- and we're, we're assuming that the
9 water would probably go to pressure sinks. It would
10 have to -- would have to go against the reservoir
11 pressure and the fact that it is a strong water drive,
12 it would have to go against that to go down dip
13 essentially. And I don't see that happening at all. If
14 that answers your question.

15 THE CHAIRMAN: All right, I'll allow everyone
16 to make a statement here. Perhaps we should let
17 Mr. Atkins go first.

18 MR. KELLER: I had just a couple.

19 THE CHAIRMAN: Go ahead.

20 FURTHER EXAMINATION

21 BY MR. KELLER:

22 MR. KELLER: One is with regard to the source
23 of the water to be injected. Mr. Brown testified
24 earlier as to the compatibility of the waters and the
25 similarity. Most of the water is from the Nugget to go

1 back into the Nugget. And we have attached to the
2 application, pursuant to the Division's regulation,
3 compatibility analyses of the water. So that is on the
4 record, and has been submitted, the waters are
5 compatible.

6 Q. (BY MR. KELLER) I would like to ask relative
7 to the question of the impact -- possible impact on the
8 Atkins mineral interest, to your knowledge Mr. Brown,
9 has the Atkins property, mineral estate ever been leased
10 for oil and gas purposes?

11 A. I believe it has at some time been leased. I
12 do not know who might have leased that property, but I
13 believe it has been leased at some time or another.

14 Q. Has that ever been drilled?

15 A. It has not.

16 MR. KELLER: That's all I have.

17 THE CHAIRMAN: I think I understand Mr. Atkins
18 is concerned that it might not ever be drilled.

19 MR. ATKINS: That's true. To answer the
20 question about leasing, it started out with a ten year
21 lease in about 1970, '71 with Amoco. And then I leased
22 it to a man by the name of John Wells, who in turn
23 signed it over to American Quasar. And U.P. Resources
24 or Chamberlin at that time came into possession of that
25 lease when they took over the assets in what, April

1 1985?

2 THE WITNESS: Correct.

3 MR. ATKINS: And that was a five year lease.
4 It expired. And almost three years ago, July the 7th,
5 1989, I leased that to a man by the name of Daryl
6 Emmet. Daryl assigned that to Equity Oil Company, and
7 Equity had an interest in this Exxon well when they
8 drilled it. I spoke to Equity the other day, and they
9 expressed an interest in releasing this property on July
10 the 7th.

11 THE CHAIRMAN: Releasing the lease that is?

12 MR. ATKINS: Yes, releasing the lease.

13 THE CHAIRMAN: All right.

14 MR. ATKINS: I would like to ask Mr. Brown, if
15 the original oil-to-water contact did in fact enter my
16 property, as that was shown on the structure contour map
17 of American Quasar's, what happened to that product over
18 the period of time?

19 THE WITNESS: As it was produced, is that what
20 you mean?

21 MR. ATKINS: Yes, as it was produced.

22 THE WITNESS: Well, as the reservoir is
23 produced, for every barrel of fluid that you withdraw
24 out of that reservoir, then it's essentially being
25 replaced by another barrel of water. And that's what I

1 mean by a flat O/W contact that has a strong water
2 drive. And over time that contact will rise, simply
3 because you are not putting back in exactly the same
4 amount that you took out to begin with. And it comes,
5 the water essentially fills up in the reservoir and
6 continues to rise over time, until some point that well
7 water out is no longer economical to produce. Does that
8 answer your question?

9 MR. ATKINS: (Moves head up and down.)

10 THE CHAIRMAN: I think I understood that too.
11 Would you like to make statements? Yes, I'll let you go
12 on the record here with any statement that you would
13 like to make to the Board. And then I am going to ask
14 the Division for a recommendation from our engineer and
15 a closing comment from Mr. Keller.

16 And I anticipate that we'll take the matter under
17 advisement. I think we'd like to do that and discuss it
18 among ourselves, but I'm sure we would be ready to
19 announce a decision today. So let me take statements if
20 you would like. You can argue to us or tell us what you
21 think ought to happen next.

22 MR. ATKINS: I think if they're going to use
23 any of our lands that there should be some sort of a
24 payment made for the injection of that water. Is there
25 a standard form for injection water?

1 THE CHAIRMAN: I think Mr. Keller indicated
2 there is for the property owner on whose property the
3 well is located. I'm not sure that there is such a
4 thing for adjoining property owners.

5 MR. KELLER: There's a surface agreement with
6 Mr. Bingham, the property on which the proposed
7 injection well is located.

8 MR. ATKINS: No matter how much migration you
9 get into my property from that Bingham injection,
10 there's no payment?

11 THE CHAIRMAN: The Board wouldn't have
12 authority to order anything like a payment. If the
13 Board were convinced that injection of the water there
14 would damage your mineral interests, our recourse really
15 would be to deny the application rather than to award
16 compensation.

17 And I think the testimony, Mr. Brown's testimony,
18 has been that he didn't believe that there was
19 produceable mineral on your property to begin with.
20 Your testimony in evidence was you had reason to believe
21 that there was.

22 And I think Mr. Brown's response was if there was
23 then, his opinion is there isn't now. So I think that's
24 the way the testimony has gone with regard to the
25 mineral interest. And our charge would be to protect

1 any produceable minerals from damage, to allow their
2 eventual production, but not to order a payment per se.

3 MR. EARL BINGHAM: I get the idea that there
4 is supposed to be a contract or an agreement between
5 Union Pacific Resources and us on this well.

6 THE CHAIRMAN: That's what I believe
7 Mr. Keller said, yes.

8 THE WITNESS: That's correct.

9 MR. EARL BINGHAM: Then we got to negotiate.

10 THE CHAIRMAN: All right.

11 MR. ATKINS: Good luck on that one.

12 THE CHAIRMAN: Anything further? Let me let
13 the Division make a recommendation or statement if they
14 would like.

15 DR. NIELSON: Mr. Chairman, the Division has
16 determined that the Union Pacific Resource Company
17 application meets the requirements for approval as a
18 Class II injection well in accordance with the statute
19 regulations for that program in the State of Utah.

20 We believe that Union Pacific Resources has
21 demonstrated in their testimony today the original and
22 current oil/gas/water contact and the movement of that
23 contact, based on drilling information that is available
24 to them through their operation of the field. And they
25 have presented exhibits that indicate no damage to oil

1 and gas resources within the lands of the protestor in
2 this matter.

3 The issues raised by the protestor were that the
4 proposed action would damage the mineral resource.
5 While there has been a 1983 structure map suggesting
6 that at one point there was oil under the land in
7 conjunction with an O/W contact, there has been
8 information indicated that additional drilling and
9 reevaluation of that field suggests that that original
10 map was not an accurate one. And we've seen nothing in
11 the testimony here today to refute that.

12 The second contention was that the result of the
13 injection was going to be to store or deposit water or
14 to utilize a well on lands for the disposal of water in
15 conjunction with the operation. I point out that the
16 objective of the regulation of Class II wells by the
17 Division is to insure that there is no adverse effect of
18 injection on oil, gas, or other resources, and that
19 ground water is protected in conjunction with such
20 injection.

21 The Division and the Board do not have the
22 jurisdiction to regulate surface use agreements or
23 leases in conjunction with surface use rights. And that
24 any compensation for that surface land use ought to be a
25 contractual matter between the parties.

1 And there has been testimony today that those
2 contracts exist. Therefore, it's the Division's
3 recommendation that the Board approve the application
4 for the Class II injection well as originally submitted
5 and as documented today.

6 THE CHAIRMAN: All right, thank you. One
7 housekeeping matter is that Mr. Keller offered all of
8 the exhibits into evidence, and I didn't yet accept
9 them. It appears to the Board that they are all
10 relevant to the matter and that we'll accept -- I'm
11 going to accept them as tendered and make them part of
12 the record. Likewise, however, we'll accept for the
13 record the structural map that Mr. Atkins presented.
14 So that will also be admitted and become part of the
15 record.

16 Is there anything further that anyone would like to
17 add? As indicated, we'll take the matter under
18 advisement and we'll be announcing a decision probably
19 right after lunch today.

20 MR. MURRAY: I would like to make one more
21 comment.

22 THE CHAIRMAN: Mr. Murray.

23 MR. MURRAY: I would like to address this
24 comment to the Bingham brothers and Mr. Atkins, and
25 reiterate a little more what Dianne said. This

1 negotiation between Union Pacific and the Bingham
2 Brothers is going to be strictly a deal between them.
3 The rest of you, even though you are mineral owners in
4 that section, will not share in it.

5 The only way you can control this, if you don't
6 want it to happen, is you have to get with the Bingham
7 Brothers and not have them negotiate a lease with these
8 people. That's the only way you, as land owners, are
9 gonna stop this.

10 If the Bingham brothers negotiate this deal, it
11 will be strictly between them. And the rest of you
12 landowners, even if you feel like it's damage to your
13 property, won't have any say in it. It's strictly
14 between the Bingham brothers and Union Pacific.

15 If we approve the injected well, they have to get
16 an agreement of some type from the Bingham brothers,
17 which will exclude the rest of you from that agreement.
18 And I want you to understand that so you know, if we
19 approve it he still has the get the deal, but it totally
20 eliminates you once it's done.

21 MS. LEVER: Except, Mr. Murray, the testimony
22 has been that there are already contracts dealing with
23 that. So whatever the deal is, it's a done deal.

24 MR. MURRAY: But the surface owner, being the
25 Bingham brothers, has total say whether it's done or not

1 done. Total say; I want you to understand that.

2 MR. ATKINS: Do I understand that the surface
3 owner has that right, whether it's done?

4 MR. MURRAY: Yeah, just him with these people.

5 MR. ATKINS: I have the McDonald well on me,
6 an injection well. We have been trying to negotiate for
7 four or five years and we have never reached an
8 agreement.

9 MR. MURRAY: What happened previous I don't
10 know, but now the rule is it's strictly the surface
11 owner of where the well is located. That owner of that
12 surface right there only.

13 THE CHAIRMAN: I think the Board's pretty clear
14 and the Division made it even clearer, that the land
15 owner surface agreement is between the operating company
16 and the surface -- the owners of the surface estate or
17 surface and mineral together is outside the jurisdiction
18 of this Board.

19 MR. MURRAY: But I just wanted to emphasize
20 that once it's done, that's the way it is.

21 MR. ALBERT BINGHAM: I understand that the
22 surface owner's agreement though has to do with the
23 production of oil. And this is production of -- getting
24 rid of this water; that's a little bit different.

25 THE CHAIRMAN: I think you would need to

1 clarify what the agreement does or doesn't say about
2 that. But we can't -- the Board can't enter into that
3 and make a ruling saying well these people are entitled
4 to that, or you have to do a certain thing.

5 MR. KELLER: I would like to just make, if I
6 could Mr. Chairman, a couple of comments. We have an
7 agreement -- U.P. has an agreement with the Bingham
8 brothers. I don't want to argue what the agreement
9 means. There may be a difference of opinion and I don't
10 want to get into that today.

11 There is an agreement. It seems that there's some
12 concern on their part that they don't fully understand
13 what it says or they think it says something different.
14 We would be happy to talk to them about that. Someone
15 says there is an agreement, someone says there isn't.
16 There is an agreement, but I don't want to argue about
17 what it means.

18 With regard to Mr. Atkins, we have another issue
19 which is not before the Board -- and I don't want to
20 open up this proceeding to that, but I want to be fair
21 to Mr. Atkins so people understand where he's coming
22 from.

23 There is also a previously approved injection well
24 called the McDonald well that is on surface estate owned
25 by Mr. Atkins. The U.P. previously had an oil and gas

1 lease and had a surface use lease on that agreement,
2 which expired. That is land on which Union Pacific owns
3 the mineral rights, however not by lease but by fee
4 conveyance from the United States.

5 There is a difference of opinion between
6 Mr. Atkins and his counsel, who is not able to be here
7 today, Bob Atkins, as to whether or not the mineral
8 reservation gives the Union Pacific the right that we
9 believe that it does. We are attempting to negotiate.

10 I'm sure that we regard Mr. Atkins as a tough
11 negotiator and I'm sure that he is not satisfied with us
12 as a negotiator. But that is another item of extreme
13 concern to Mr. Atkins. And in this proceeding I really
14 don't want to get into it. On the other hand, I don't
15 want to act like the issue doesn't exist and that we're
16 not aware of it. And that is an issue that is being
17 pursued with Mr. Atkins relative to the McDonald well.

18 I didn't want to get in a fight about that,
19 Mr. Atkins is a very even-tempered individual. So I did
20 want to make that clear to the Board so they understand
21 what's going on up there with regard to our relations
22 with private landowners. And we do want to be a good
23 neighbor, and there has been disagreement. Thank you.

24 THE CHAIRMAN: We'll let Mr. Bingham.

25 MR. EARL BINGHAM: How are you going to get

1 this water there, through a pipeline or what?

2 THE WITNESS: That's correct, through a
3 pipeline.

4 MR. EARL BINGHAM: Isn't the pipeline already
5 there?

6 THE WITNESS: No, it is not.

7 MR. EARL BINGHAM: Okay, you paying for a new
8 pipeline then?

9 THE WITNESS: That's correct, we'll have to
10 buy a new pipeline.

11 THE CHAIRMAN: All right, these are tough
12 negotiators. With that, we'll take this matter under
13 advisement and we will announce a decision today. I
14 think we'll leave shortly after lunch. Thank you all
15 for appearing.

16 (Whereupon, the hearing was adjourned.)

17 THE CHAIRMAN: We'll go back on to the record
18 in our, let's see, third agenda item, Docket No.
19 92-006, Cause No. UIC-128. The Board, after taking
20 the evidence and testimony that was presented and
21 hearing the arguments of all those in attendance, has
22 determined to approve the application for administrative
23 approval to operate the Bingham and Sons #1 Well as an
24 underground injection well pursuant to the
25 recommendation of the Division.

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That will be the board's order, and we'll direct that Mr. Keller prepare an order for the Division to review. Thank you, that does conclude our formal meeting.

(Whereupon, the hearing was concluded.)

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---oo0oo---

IN THE MATTER OF THE
APPLICATION OF UNION
PACIFIC RESOURCES CO.
FOR ADMINISTRATIVE
APPROVAL OF BINGHAM
& SONS #1 WELL IN SECTION
2, T. 2 N., R. 7 E.,
S.L.M., SUMMIT COUNTY,
UTAH, AS A CLASS II
INJECTION WELL

: ORDER GRANTING
: ADMINISTRATIVE APPROVAL
: OF BINGHAM & SONS #1
: WELL AS A CLASS II
: INJECTION WELL
:
: DOCKET NO. 92-006
: CAUSE NO. UIC-128
:

---oo0oo---

This matter came on for hearing before the Utah Board of Oil, Gas & Mining (the "Board") on Wednesday, March 25, 1992 at the hour of 10:00 a.m. Members of the Board present at the hearing were James W. Carter, Chairman, Judy F. Lever, Jay L. Christensen, and Raymond Murray. The Division of Oil, Gas and Mining ("Division") was represented by Thomas Mitchell, Assistant Attorney General. Present from the Division were Dr. Dianne R. Nielson, Director, and R. J. Firth, Associate Director, Oil and Gas. H. Michael Keller represented applicant Union Pacific Resources Company, and appearing as witness for Union Pacific was Ted D. Brown, Petroleum Engineer. ~~Protestant John Adkins, Jr.~~ appeared pro se. Also present at the hearing and participating therein were Albert Bingham and Earl Bingham.

The Board, having considered the testimony of the parties and exhibits filed in this matter, and good cause appearing, hereby makes the following findings of fact, conclusions of law and Order:

FINDINGS OF FACT

1. On January 31, 1992, Union Pacific Resources Company ("Union Pacific") submitted an application, in accordance with the applicable rules and regulations of the Board, for administrative approval to convert the B.A. Bingham & Sons #1 well in Section 2, T. 2 N., R. 7 E., S.L.M., Summit County, Utah (the "Bingham Well") to a Class II underground injection well for the disposal of produced salt water.

2. Union Pacific gave notice of its application pursuant to the requirements of Utah Administrative Code ("U.A.C.") Rule R615-5-3, and provided a copy of its application to all operators, owners and surface owners within a one-half mile radius of the Bingham Well as required by U.A.C. Rule R615-5-2.

3. On or about February 24, 1992, Mr. John Adkins, Jr. ("Protestant") filed a protest and objection to Union Pacific's application, claiming that use of the Bingham Well as a salt water disposal well would damage the Protestant's mineral interest, result in the storage of production water underneath his land, and that such storage of production water underneath his land, and that such storage would constitute an unlawful taking of his land without compensation. The Protestant's mineral interest underlies land owned by Protestant approximately $\frac{1}{2}$ mile from the proposed disposal well. Protestant does not hold any surface or mineral interest in the lands on which the Bingham Well is located.

4. Union Pacific is the operator of the Pineview Field. In June, 1991, the Bingham well was completed as a dry hole, with tests of the Nugget formation yielding formation water with oil cuts of less than 2%.

5. Union Pacific introduced testimony and exhibits demonstrating:

a. That the Bingham Well could not be established as a commercial producer of oil and gas;

b. That the Pineview field has a strong bottom water drive within the Nugget formation, which has caused the oil/water contact within the reservoir to rise substantially over the years as production has occurred;

c. That the structure of the Nugget formation in this area is such that the Nugget formation beneath Protestant's land is well below the oil/water contact, as demonstrated by production data from multiple wells in the area and other structural evidence; and

d. That the mineral interests owned by the Protestant in the Pineview Field lie beneath the oil/water contact, and therefore outside of the area where commercial production is possible.

6. Protestant's reliance upon a 1983 structural map of the Pineview Field is not well-founded. Union Pacific introduced evidence that additional drilling and reevaluation of the field show that the 1983 map was not accurate. Protestant did not refute this evidence.

7. Because Protestant's minerals lie beneath the oil/water contact, the Protestant's mineral interests will not be adversely affected in any way by the use of the Bingham well for salt water injection in the manner proposed by Union Pacific.

8. The proposed action will cause no adverse effect upon oil, gas, or other resources, and will cause no adverse effect upon groundwater.

9. All technical requirements for the approval of the well as a Class II underground injection well have been met.

CONCLUSIONS OF LAW

1. Union Pacific's application meets all applicable statutory and administrative requirements for the approval of the Bingham Well as a Class II underground injection well.

2. The Protestant's mineral interest will not be damaged by the proposed action. The Board does not have jurisdiction to regulate disputes over surface uses, and no ruling is made in connection with any such dispute.

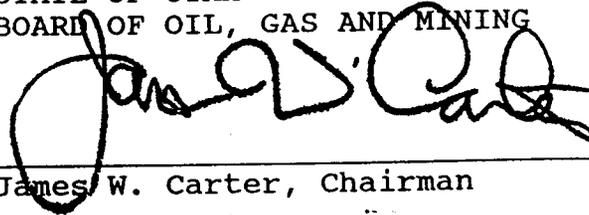
ORDER

Based upon the Findings of Fact and Conclusions of Law set forth above, the Board hereby Orders that the Application of Union Pacific Resources Company for Administrative Approval of the Bingham & Sons #1 Well as a Class II Underground Injection

Well is approved, and the protest and objection of John Adkins, Jr. is denied.

DATED this 28th day of May, 1992

STATE OF UTAH
BOARD OF OIL, GAS AND MINING

A handwritten signature in black ink, appearing to read "James W. Carter", written over a horizontal line.

James W. Carter, Chairman



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

UTAH DIVISION OF OIL, GAS AND MINING FACSIMILE TRANSMISSION COVER SHEET

DATE: 3-26-92

FAX # 817-877-7942

ATTN: Jay Rector

COMPANY Union Pacific Res.

FROM: Frank Matthews

DEPARTMENT: DOG

NUMBER OF PAGES BEING SENT (INCLUDING THIS ONE): 2

If you do not receive all of the pages, or if they are illegible, please call (801) 538-5340.

We are sending from a Murata facsimile Machine. Our telecopier number is (801) 359-3940.

MESSAGES:

Please do not send any other
sundries. We found the originals.
Copy of approved.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

INJECTION WELL - PRESSURE TEST

TEST DATE: 4/28/92 WELL OWNER/OPERATOR: 4PRC
DISPOSAL WELL: ENHANCED RECOVERY WELL: OTHER:
API NO: 43-043-30295 WELL NAME/NUMBER: B.A. BINGHAM & SONS #1
SECTION: 2 TOWNSHIP: 2 N RANGE: 7 E

INITIAL CONDITIONS:

TUBING - rate: 0 pressure: 0
CASING/TUBING ANNULUS - pressure: 1040

CONDITIONS DURING TEST:

TUBING pressure: 0 psi for 0 minutes
CASING/TUBING ANNULUS pressure: 1040 psi
annulus pressure drop during test: _____ psi

CONDITIONS AFTER TEST:

TUBING pressure: 0 psi
CASING/TUBING ANNULUS pressure: 1110 psi

REMARKS:

PRESSURED UP WITH RIG PUMP
PAUSE TEST

JACK SIMMONS
OPERATOR REPRESENTATIVE

BEALIA / HEBERTSON
DOG M WITNESS

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

6. Lease Designation and Serial Number

Fee

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement

9. Well Name and Number

B. A. Bingham & Sons #1

10. API Well Number

43-043-30295

11. Field and Pool, or Wildcat

Pineview

SUNDRY NOTICES AND REPORTS ON WELLS

Use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT— for such proposals

SEP 06 1992

1. Type of Well

- Oil Well
- Gas Well
- Other (specify) SWD

2. Name of Operator

UNION PACIFIC RESOURCES COMPANY

3. Address of Operator

P.O. Box 7-MS 3407, Fort Worth, TX 76101-0007.

4. Telephone Number

817/877-7952

5. Location of Well

Footage : 1205' FNL & 888' FWL

QQ, Sec. T., R., M. : NW NW Sec 2-2N-7E

County : Summit

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOGS form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Re-entered well 3-31-92.

Tag cement at 8913' KB. Drid out to 8015'. Tagged C1CR @ 9298' KB. Circ hole clean. Press test to 1000# - held 15 min.

Drid cmt to 9327'. Circ hole clean. Drid 53' cmt. Tag C1BP @ 9380'. Circ hole clean and pressure test to 1000#. Drid on C1BP. Chased BP to top of C1CR @ 9485' KB.

TIH w/gauge ring & junk basket to 9380' KB. PU & TIH w/C1CR. Set C1CR top @ 9352' KB. MU stinger & TIH w/307 jts 2-7/8" tbg top of C1CR.

Squeeze Rich perfs from 9410-42'. Pump 50 sx AG 300 cmt + additives & 100 sx AG 300 w/HR6 - mix @ 15.8 ppg. Displace w/20 bbls flush w/H₂O. Sting into retainer & squeeze. Press test 3500# under displace 1 bbl. Press test backside 3500#. Held w/no movement.

TIH w/Mill DC & tbg. Tag @ 9345' KB, C1CR @ 9353' KB. Dri on C1CR, dri out cmt to 9398'. Circ hole clean. Press test squeezed perfs (9410-42') to 1100 psi.

Drid C1CR (9585') & cmt to 9810' KB. Tag C1BP @ 9810'. Circ hole clean. Pressure test squeeze perfs 9700-24', & 9634-54' @ 1000#, held 15 min.

Drid C1BP @ 9810'. Circ bottoms-up and tag PBTD @ 10,495' KB.

Perf Nugget Sand 10,171-90' w/80 holes; 10,150-70' w/80 holes; 10,004-12' w/32 holes; 9982-84' w/48 holes; 9935-51' w/64 holes. Perfs were 4 JSPF, 90° phasing and 22 grm charges.

TIH w/coated tbg & pin ends treat w/seal lube. Set packer @ 9797' KB w/20,000 compression. St of Utah representative witnessed pressure test. Pressure test csg & packer to 1000#. Held for 15 min. RD & SI well. 4-30-92

Build injection lines & facilities.

8-27-92 Begin injection at a rate of 6000 BWPD @ 850 psi.

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

Name & Signature Rachelle Montgomery Title Regulatory Analyst Date 9-3-92

(Use Only)



Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

LDC

June 1, 1993

Union Pacific Resources Co.
P.O. Box 527
Coalville, Utah 84017

Gentlemen:

Re: Pressure Test for Mechanical Integrity, #3-5, #5-1, #4-1, Bingham #1, Judd #34-2, Salt Water Disposal Wells, Pineview and Lodgepole Fields, Summit County, Utah

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. It has been past policy of the Division to require pressure testing of all Class II salt water disposal wells and other injection wells not reporting monthly annulus pressures in accordance with rule R649-5-5.3 of the Oil and Gas Conservation General Rules. This rule requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Our records indicate the above referenced wells are due for testing for the second five year period. Please make arrangements and ready the wells for testing during the week of June 28, 1993 as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.

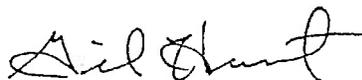


Page 2
Pressure Test
June 2, 1993

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut in 24 hours prior to testing.

Please contact Mr. Dan Jarvis at (801)538-5340 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,



Gil Hunt
UIC Program Manager

ldc
Attachment
WOI52

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
INJECTION WELL - PRESSURE TEST

TEST DATE: 6/30/93 WELL OWNER/OPERATOR: UPRC
DISPOSAL WELL: X ENHANCED RECOVERY WELL: _____ OTHER: _____
API NO: 43-043-30295 WELL NAME/NUMBER: Bingham # 2
SECTION: 2 TOWNSHIP: 2N RANGE: 7E

INITIAL CONDITIONS:

TUBING - rate: ~~75~~ pressure: 750 PSI
CASING/TUBING ANNULUS - pressure: 0

CONDITIONS DURING TEST:

TUBING pressure: 750 psi for 15 minutes
CASING/TUBING ANNULUS pressure: 1000 psi
annulus pressure drop during test: 0 psi

CONDITIONS AFTER TEST:

TUBING pressure: 750 psi
CASING/TUBING ANNULUS pressure: 0 psi

REMARKS:

Pumped 25 BBLS fluid to fill Barkside
held 15 min Passed MIT

Paul Smith
OPERATOR REPRESENTATIVE

D. Jamis
DOGM WITNESS



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Enforcement

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

July 1, 1993

Paul Smith
Union Pacific Resources Company
P.O. Box 527
Coalville, Utah 84017

Dear Paul:

Re: Pressure Tests for Mechanical Integrity, McDonald 31-3, Bingham #1, 5-1 and Clark 4-1, Salt Water Disposal Wells, Pineview Field, Summit County, Utah

On June 30, 1993, pressure tests for mechanical integrity were conducted on the above referenced wells. All of the wells with the exception of the Clark 4-1 passed the MIT and have satisfied the requirements of our 5 year testing period.

Please submit to the Division within 15 days of the receipt of this letter your plans for repairing the Clark 4-1 disposal well, including a time frame.

If you have any questions, please call me at (801)538-5340.

Sincerely,

Dan Jarvis
Geologist

ldc
WUI34



Author: Paul R. Smith at UPRC-FW-FS1
Subject: Mechanical Integrity Testing of Pineview SWD Wells
----- Message Contents -----

Bingham & Sons #1 Pumped 65 BBLs of treated water. 1000PSI on backside and 500PSI on tbg held pressure on backside for 30 min.. Well pressure Tested OK! (when injection pumps were down the tbg pressure was 110PSI)

43-043-30295
Sec. 2, 2N, 7E

McDonald 31-3: Pumped 3 BBLs of treated water. 1000PSI on backside and 770PSI on tbg with injection pump running. (when injection pump was down the tbg pressure went to 120PSI) Well pressure Tested OK!

43-043-30018
Sec. 3, 2N, 7E

Clark 4-1: Pumped 29 BBLs of treated water. 1000PSI on backside and 530PSI on tbg, held pressure on backside for 30 min.. The backside bled off to 700PSI in 20 min. then held. Looks like the twin creek perfs. are still leaking because the injection pressure came up to 1125PSI at the same time. Does not look like we have communication between the tbg and annulus. Well did not pressure test! Failed MIT

43-043-30071
Sec. 4, 2N, 7E

UPRC #1 Exxon: Pumped 2 BBLs of treated water. 1000PSI on backside and 675PSI on the tubing with the injection pumps shutdown. Held pressure on backside for 30 min. After 10 min. the backside bled off to 900PSI we started the injection pumps and tbg pressure went to 1080PSI. After 25 min. the backside was at 775PSI the tbg was holding at 1125PSI. Looks like the Perfs. are still leaking on this well. Does not look like we have communication between the tbg and annulus. Well did not pressure test! Failed MIT

43-043-30290
Sec. 17, 2N, 7E

UPRR 33-1 Conoco: Pumped 390 BBLs treated water. 100PSI on backside and 635PSI on the tubing with the injection pump running. Well did not test leaking in perfs. Well did not pressure test!

43-043-30233
Sec. 33, 2N, 6E

UPRR 3-5: Pumped 1 BBL treated water. 1000PSI on backside and 2200PSI on tbg. Pressure dropped off to 700PSI on backside pumped back up to 1000PSI on back side and shut in to go test the bingham 10-3. Backside pressure down to 550PSI in one hour. Well did not pressure test!

43-043-30035
Sec. 3, 2N, 7E

Blonquist 26-4: Pumped 5 BBLs treated water. 1000PSI on backside and 1600 on tbg. Held pressure for 15 min. Well Pressure Tested OK!

43-043-30268
Sec. 26, 2N, 6E

UPRR 10-3: Had 500PSI on backside and water at surface. Pumped 10 BBLs of treated water. Well did not pressure test. State would like for us to P&A this well as soon as possible.

43-043-30097
Sec. 10, 2N, 7E

UPRR 5-1 Jones : On P&A list.

43-043-30004
Sec. 5, 2N, 7E



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Underground Injection Control Program
1694 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5338
801-359-3940 (Fax)

Daniel Jarvis
Geologist

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>	5. Lease Designation and Serial No. Fee
	6. If Indian, Allottee or Tribe Name NA
	7. Unit Agreement Name NA
	8. Well Name and Number B. A. Bingham & Sons, Inc. #1
	9. API Well Number 43-043-30295
10. Field and Pool, or Wildcat Pineview	

1. Type of Well:
OIL (X) GAS () OTHER: () INJ. ()

2. Name of Operator
Union Pacific Resources Company

3. Address and Telephone Number
P. O. Box 7 MS 29-3006-01 Fort Worth, Texas 76101-0007
Telephone (817) 321-6739

4. Location of Well
Footages 1205' FNL, 888' FWL County Summit
QQ, Sec., T., R., M. (NWNW) Sec. 2, T2N-R7E State Utah

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandonment	<input type="checkbox"/> Abandonment *
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Casing Repair
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Conversion to Injection
<input type="checkbox"/> Fracture Test	<input type="checkbox"/> Fracture Treat
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Other: Change of Operator	
<input type="checkbox"/> New Construction	<input type="checkbox"/> New Construction
<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Shoot of Acidize
<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Water Shut-Off Shutoff
<input type="checkbox"/> Water Shutoff	

Approximate date work will start: Upon Approval

Date of work completion _____

Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

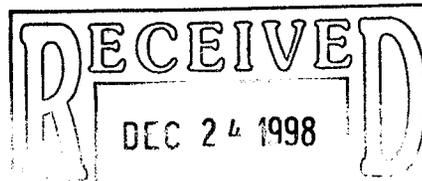
Union Pacific Resources Company has sold the captioned well to Citation Oil & Gas Corp. P. O. Box 690688, Houston, Texas 77269-0688 and requests that Citation be named Operator of Record effective January 1, 1999. Please release this well from coverage under Union Pacific Resources Company's Utah Statewide Bond #2447222.

On behalf of Union Pacific Resources Company I hereby certify that the foregoing is true and correct:
Dorothy Moravek *Dmoravek* Title: Regulatory Analyst Date 12-18-98

By execution of this document, Citation Oil & Gas Corp. requests the State of Utah to approve it as Operator of Record for the above captioned well. Citation accepts responsibility for this well under it's Utah Statewide Bond #587800.

13. On behalf of Citation Oil & Gas Corp, I hereby certify that the foregoing is true and correct:
Robert T. Kennedy *Robert J. Kennedy* Title: Vice President-Land Date: 12-22-98

(This space for State use only)



```

01/19/99                D E T A I L   W E L L   D A T A                menu: opt 00
api num: 4304330295      prod zone: NGSD          sec   twnshp   range   qr-qr
entity: 11097 : B A BINGHAM & SONS #1          2     2.0 N    7.0 E   NWNW
well name: B.A. BINGHAM & SONS, INC. #1
operator: N9465 : UNION PACIFIC RESOURCES CO      meridian: S
field: 535 : PINEVIEW
confidential flag:      confidential expires:      alt addr flag:
      * * * application to drill, deepen, or plug back * * *
lease number: FEE                lease type: 4          well type:      OW
surface loc: 1205 FNL 0888 FWL   unit name:
prod zone loc: 1205 FNL 0888 FWL  depth: 13500          proposed zone: NGSD
elevation: 6732' KB              apd date: 900628      auth code: R615-3-3
* * completion information * *    date recd:
spud date: 900706                compl date: 920430    total depth: 12697'
producing intervals: 9830-10146'
bottom hole: 1205 FNL 0888 FWL   first prod:           well status: WDW
24hr oil: 24hr gas:              24hr water:          gas/oil ratio:
      * * well comments:          direction1:          api gravity:
900720 ENTITY ADDED:910401 OPER FR N0420 EFF 11/90:920326 CONV WDW:920827
COMM INJ:941005 FLD FR 001:

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opt: 21 api: 4304330295 zone:      date(yymm):      enty      acct: N9465

```



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

January 27, 1999

Union Pacific Resources Company
Attn: Dorothy Moravek
P.O. Box 7 MS 29-3006-01
Fort Worth, Texas 76101-0007

Re: Notification of Sale or Transfer of Fee Lease Interest

The Division has received notification of a change of operator from Union Pacific Resources Co. to Citation Oil & Gas Corporation for the following well(s) which are located on a fee lease:

<u>Well Name</u>	<u>Sec.-T.-R.</u>	<u>API Number</u>
Bingham 1-43-3	03-02N-07E	43-043-30029
Judd 34-3	34-02N-06E	43-043-30098
Judd 34-1	34-02N-06E	43-043-30061
UPRR 3-1	03-02N-07E	43-043-30012
UPRR 3-2	03-02N-07E	43-043-30015
UPRR 3-6	03-02N-07E	43-043-30036
UPRR 3-9	03-02N-07E	43-043-30151
Bingham 2-1	02-02N-07E	43-043-30026
Bingham 2-1A	02-02N-07E	43-043-30125
Bingham 2-2	02-02N-07E	43-043-30028
Bingham 2-3	02-02N-07E	43-043-30033
Bingham 2-4	02-02N-07E	43-043-30038
Bingham 10-1	10-02N-07E	43-043-30025
Pineview 4-3	04-02N-07E	43-043-30077
Pineview 4-4S	04-02N-07E	43-043-30083
Blonquist 26-3	26-02N-06E	43-043-30235
Newton Sheep 1	18-02N-07E	43-043-30284
UPRR 1H 19-2X	19-02N-07E	43-043-30300
Judd 34-1H	34-02N-06E	43-043-30301
UPRR 3-10	03-02N-07E	43-043-30302
UPRR 17-2H	17-02N-07E	43-043-30304

Page 2
Dorothy Moravek
Notification of Sale
January 27, 1999

<u>Well Name</u>	<u>Sec.-T.-R.</u>	<u>API Number</u>
UPRR 35-2H	35-02N-06E	43-043-30305
Newton Sheep 20-1H	20-02N-07E	43-043-30310
Judd 4-1H	04-01N-06E	43-043-30311
Blonquist 26-1H	26-02N-06E	43-043-30314
Bingham 2-6H	02-02N-07E	43-043-30317
UPR 3-11H	03-02N-07E	43-043-30318
Blonquist 26-4	26-02N-06E	43-043-30268
UPRC 33-1	33-02N-06E	43-043-30233
Clark 4-1	04-02N-07E	43-043-30071
UPRC 1	17-02N-07E	43-043-30290
B.A. Bingham & Sons 1	02-02N-07E	43-043-30295

Utah Administrative Rule R649-2-10 states; the owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Union Pacific Resources Co. of its responsibility to notify all individuals with an interest in this lease (royalty interest and working interest) of the change of operator. Please provide written documentation of this notification to:

Utah Royalty Owners Association
Box 1292
Roosevelt, Utah 84066

Page 3
Dorothy Moravek
Notification of Sale
January 27, 1999

Your assistance in this matter is appreciated.

Sincerely,

A handwritten signature in black ink that reads "Kristen D. Risbeck". The signature is written in a cursive style with a large, prominent "K" at the beginning.

Kristen D. Risbeck

cc: Citation Oil & Gas Corporation
Utah Royalty Owners Association, Kent Stringham
John R. Baza, Associate Director
Operator File(s)



March 29, 1999

Kristen Risbeck
State of Utah
P O Box 145801
Salt Lake City, Utah 84114-5801

Re: Transfer of Authority to Inject

Dear Ms. Risbeck:

Enclosed please find an original and one copy of the form 5 to transfer the following wells into Citation Oil & Gas Corp.'s name.

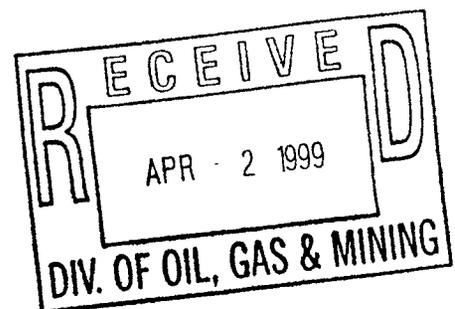
UPRC 33-1 SWD	43-043-30233
Blonquist 26-4 SWD	43-043-30268
Clark 4-1 SWD	43-043-30071
Exxon UPRC #1 SWD	43-043-30290
B. A. Bingham & Sons Inc. #1	43-043-30295

If you have any questions regarding this form, please contact the undersigned at 281-469-9664.
Thank you.

Sincerely,

Sharon Ward
Regulatory Administrator

Cc: Dorothy Moravek
UPRC



TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: B. A. Bingham & Sons, Inc. #1

Field or Unit name: Pineview API No. 43-043-30295

Well location: QQ NWNW Section 2 Township 2N Range 7E County Summit

Effective Date of Transfer: January 1, 1999

CURRENT OPERATOR

Transfer approved by:

Name	<u>Dorothy Moravek</u>	Company	<u>Union Pacific Resources Company</u>
Signature	<u><i>D Moravek</i></u>	Address	<u>P. O. Box 7, MS 29-3006-01</u>
Title	<u>Regulatory Analyst</u>		<u>Fort Worth, Texas 76101</u>
Date	<u>March 23, 1999</u>	Phone	<u>(817) 321-6739</u>

Comments:

NEW OPERATOR

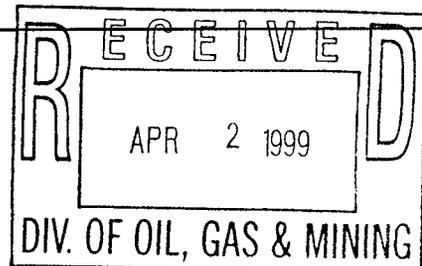
Transfer approved by:

Name	<u>Sharon Ward</u>	Company	<u>Citation Oil & Gas Corp.</u>
Signature	<u><i>Sharon Ward</i></u>	Address	<u>P. O. Box 690688</u>
Title	<u>Regulatory Administrator</u>		<u>Houston, Texas 77269-0688</u>
Date	<u>March 29, 1999</u>	Phone	<u>(281) 469-9664</u>

Comments:

(State use only)
Transfer approved by *[Signature]* Title *Tech Services Manager*

Approval Date *4-8-99*



OPERATOR CHANGE WORKSHEET

Routing:	
1-KDR ✓	6-KAS ✓
2- KLH ✓	7-SJ
3-JRB ✓	8-FILE
4-CDW ✓	
5-KDR ✓	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)
- Designation of Operator
- Designation of Agent
- Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 1-1-99

TO: (new operator) <u>CITATION OIL & GAS CORP</u> (address) <u>P.O. BOX 690688</u> <u>HOUSTON, TX 77269-0688</u> <u>RUTH ANN ALFORD</u> Phone: <u>(281) 469-9664</u> Account no. <u>N0265</u>	FROM: (old operator) <u>UNION PACIFIC RESOURCES CO</u> (address) <u>P.O. BOX 7 MS 29-3006-01</u> <u>FORT WORTH, TX 76101-0007</u> <u>DOROTHY MORAVEK</u> Phone: <u>(817) 321-6739</u> Account no. <u>N9465</u>
---	--

WELL(S) attach additional page if needed:

Name: <u>*SEE ATTACHED*</u>	API: <u>A304330295</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- KDR 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 12.24.98)*
- KDR 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Rec'd 12.24.98)*
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) _____ If yes, show company file number: _____
- N/A 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal and Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- KDR 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(3.11.99)*
- KDR 6. **Cardex** file has been updated for each well listed above.
- N/A 7. Well file labels have been updated for each well listed above. *(*new filing system)*
- KDR 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(3.11.99)*
- KDR 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- WDR 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) NO If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- WDR 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- WDR 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond. (rec'd 2.11.99 Bond # RSB-670565)
- WDR 2. A copy of this form has been placed in the new and former operator's bond files.
- WDR 3. The FORMER operator has requested a release of liability from their bond (yes/no) YES, as of today's date 3.10.99. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- WDR 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated 1.27.99 19 __, of their responsibility to notify all interest owners of this change.

FILMING

- 1. All attachments to this form have been microfilmed. Today's date: _____.

FILING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Well file

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

June 19, 2002

Terry Courter
Citation Oil & Gas Corp
PO Box 690688
Houston TX 77269-0688

Re: Pressure Test for Mechanical Integrity, B A Bingham & Sons Inc 1 Well, Section 2, Township 2 North, Range 7 East, Summit County, Utah

Gentlemen:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October, 1982. Please make arrangements and ready the B A Bingham & Sons Inc 1 well for testing during the week of July 15, 2002 as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.
4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.

Page 2

Citation Oil & Gas Corp

June 19, 2002

5. All bradenhead valves with exception of the tubing on the injection wells must be shut-in 24 hours prior to testing.

Please contact Lisha Cordova at (801) 538-5296 to arrange a meeting time and place or negotiate a different date, if this one is unacceptable.

Sincerely,



Gil Hunt
Technical Services Manager

er

cc: Lisha Cordova
Dan Jarvis

INJECTION WELL - PRESSURE TEST

Well Name: Bingham & Sons # 1 API Number: 43-043-30295
 Qtr/Qtr: NWNW Section: 2 Township: 2N Range: 7E
 Company Name: Citation O&G
 Lease: State _____ Fee Federal _____ Indian _____
 Inspector: Lisle Cordova / Dan Jarvis Date: 7-18-02

Initial Conditions:

Tubing - Rate: 0 Pressure: 1000 psi
 Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>800</u>	_____
5	<u>800</u>	_____
10	<u>800</u>	_____
15	<u>800</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 1000 psi
 Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: Passed MIT.

Lisle Cordova
 Operator Representative

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: BA Bingham & Sons 1 API Number: 43-043-30295
 Qtr/Qtr: NWNW Section: 2 Township: 2N Range: 7E
 Company Name: Citation O&G Corp.

Lease: State _____ Fee Federal _____ Indian _____
 Inspector: Lishe Cordova Date: 8/24/07

Initial Conditions:

Tubing - Rate: 10,000 Pressure: 900 psi
 Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1000</u>	<u>900</u>
5	<u>1000</u>	<u>900</u>
10	<u>1000</u>	<u>900</u>
15	<u>1000</u>	<u>900</u>
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 950 psi
 Casing/Tubing Annulus Pressure: 0 psi

COMMENTS:

HR Turner - Hot Oiler
40 bbls wtr loaded & holding. (Dulbo?)

Von Gilg
 Operator Representative



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 7, 2012

Terry Courter
Citation Oil & Gas Corporation
P. O. Box 690688
Houston, Texas 77269-0688

Subject: Pressure Test for Mechanical Integrity, B A Bingham and Sons Inc 1, NWNW Section 2, Township 2 North, Range 7 East, API No. 43-043-30295, Summit County, Utah

Dear Mr. Courter:

The Underground Injection Control Program, which the Division of Oil, Gas, and Mining (DOG M) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. Please make arrangements and ready the B A Bingham and Sons Inc 1 well for testing during the week of August 21-24, 2012, as outlined below:

1. Operator must furnish connections, accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, and the well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the well to be tested at this time the test may be rescheduled.
4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.
5. All bradenhead valves with the exception of the tubing on the injection well must be shut-in 24 hours prior to testing.

Please contact Lisha Cordova at (801) 538-5296 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely

Dan Jarvis
Operations Manager

DJJ/lc/js

cc: Lisha Cordova, Petroleum Specialist
Val Meadows, Citation O&G Corp., 3603 E. Chalk Creek Rd, Coalville UT 84017
Well File



INJECTION WELL - PRESSURE TEST

Well Name: BABingham & Sons Inc. 1 API Number: 43-043-30295
 Qtr/Qtr: NW/NE Section: 2 Township: 2N Range: 7E
 Company Name: Citation Oil & Gas Corp.
 Lease: State _____ Fee Federal _____ Indian _____
 Inspector: Lisha Cordone Date: 8/29/12
Tu And Frum Water SUS.

Initial Conditions: Dynamic

Tubing - Rate: 8000-9000 bpd Pressure: 540 psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0 8:56	<u>1000</u>	<u>540</u>
5 9:01	<u>1000</u>	↓
10 9:06	<u>1000</u>	↓
15 9:11	<u>1000</u>	↓
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 540 psi

Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: Pressured up w/37 gallons water.

[Signature]
 Operator Representative

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC MP-100

METER 3000 #5 pr 1/4

8/29/12

CHART PUT ON
LEO MIN. M

TAKEN OFF

LOCATION Bingham & Sons #1 SWD

REMARKS MIT TEST
BACKSIDE

Chuck Row
MAN STATES
8/29/12
9:20 AM

Lab [Signature]
COOL 8/29/12