

*see form page 2*

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief *PJB*

Copy NID to Field Office *He*

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed *1-28-66*

OW  WW  TA

GW  OS  PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log *3-25-66*

Electric Logs (No. ) *3*

E  L  E-I  GR  GR-N  Micro

Lat  Mi-L  Sonic  Others

*Cement Bond Log*

*Induction electrical dual induction later log*

Handwritten text on a lined page, possibly a page number or date, followed by a signature or name.

27

Handwritten signature or name, possibly "J. J. ...".

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG  ELECTRIC LOGS \_\_\_\_\_ FILE  WATER SANDS  No LOCATION INSPF \_\_\_\_\_ D \_\_\_\_\_ SUB. REPORT/abd. \_\_\_\_\_  
 Discovery Well Field Designated 2-18-66

DATE FILED 6-16-65

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. U-013145 INDIAN \_\_\_\_\_

DRILLING APPROVED: In Unit 6-16-65

SPUDED IN: 7-4-65

COMPLETED: 1-28-66 PUT TO PRODUCING: 1-28-66 SI 3.26.86 (not TA) per J.B.

INITIAL PRODUCTION: 2753 BOPD, 2415 MCF/D, 125 BWPD

GRAVITY A.P.I. 40.3°

GOR: 878:1

PRODUCING ZONES: 15,504-517' 15,555-586' (OKTA)

TOTAL DEPTH: 15,754'

WELL ELEVATION: 8910.2' GR

DATE ABANDONED: \_\_\_\_\_

FIELD: Bridger Lake Field

UNIT: Bridger Lake

COUNTY: Summit

WELL NO. Bridger Lake Unit Fork "A" #1 API NO. 43-043-15763

LOCATION 1932' FT. FROM ~~XX~~ (S) LINE, 1252' FT. FROM (X) (W) LINE. SE NW SW ¼-¼ SEC. 25

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
3N	14E	25	PHILLIPS PETROLEUM CO.				

## GEOLOGIC TOPS:

QUATERNARY	Star Point		Chinle	Molas
Alluvium	Wahweap		Shinarump	Manning Canyon
Lake beds	Masuk		Moenkopi	Mississippian
Pleistocene	Colorado		Sinbad	Humbug
Lake beds	Sego		PERMIAN	Brazer
TERTIARY	Buck Tongue		Kaibab	Pilot Shale
Pliocene	Castlegate		Coconino	Madison
Salt Lake	Mancos		Cutler	Leadville
Oligocene	Upper		Hoskinnini	Redwall
Norwood	Middle		DeChelly	DEVONIAN
Eocene	Lower		White Rim	Upper
Duchesne River	Emery		Organ Rock	Middle
Uinta	Blue Gate		Cedar Mesa	Lower
Bridger	<del>Ferro</del> Hilliard	12,681'	Halgaita Tongue	Ouray
Green River	Frontier	14,927'	Phosphoria	Elbert
	<del>Dakota</del> Mowry	15,023'	Park City	McCracken
	Burro Canyon		Rico (Goodridge)	Aneth
	Cedar Mountain		Supai	Simonson Dolomite
	<del>Buckhorn</del> Dakota Silt	15,282'	Wolfcamp	Sevy Dolomite
	JURASSIC Dakota	15,314'	CARBONIFEROUS	North Point
Wasatch	Morrison	15,588'	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash		Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.		Weber	ORDOVICIAN
Flagstaff	Summerville		Morgan	Eureka Quartzite
North Horn	Bluff Sandstone		Hermosa	Pogonip Limestone
* <del>Fort</del> Fort Union	Curtis	8292'		CAMBRIAN
Paleocene	Entrada		Pardox	Lynch
Current Creek	Moab Tongue		Ismay	Bowman
North Horn	Carmel		Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.		Akah	Ophir
Montana	Navajo		Barker Creek	Tintic
Mesaverde	Kayenta	10,917'		PRE-CAMBRIAN
Price River	Wingate		Cane Creek	
Blackhawk	TRIASSIC			



PHILLIPS PETROLEUM COMPANY

P. O. Box 2331  
Casper, Wyoming

June 16, 1965

State of Utah  
Oil & Gas Conservation Commission  
348 East South Temple  
Suite 301  
Salt Lake City, Utah

Gentlemen:

In regard to our Notice of Intention to drill the Fork "A" Well No. 1 located 1252 Feet East of West Line and 1932 Feet North of South Line, Section 25-3N-14E, Summit County, Utah, we ask that the following corrections be made:

Please correct your copy of the Notice of Intention to read 1252 feet East of West Line as indicated by the plat attached.

Please correct your copy of the location plat to read Fork "A" No. 1 instead of No. 1 Henry Fork.

Thank you for calling this matter to our attention.

Very truly yours,

F. H. Eggli  
District Superintendent

KAM:gm

43

PH  
66

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
**DRILL**       **DEEPEN**       **PLUG BACK**

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
**Phillips Petroleum Company**

3. ADDRESS OF OPERATOR  
**Box 2331, Casper, Wyoming**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
**1250 ft. East of West Line & 1932 North of South Line Sec. 25**  
 At proposed prod. zone  
**Same**

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

5. LEASE DESIGNATION AND SERIAL NO.  
**Utah 013145**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**Bridger Lake Unit**

8. FARM OR LEASE NAME  
**Fork "A"**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat** ✓

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 25-3N-14E S.L.M.**

12. COUNTY OR PARISH      13. STATE  
**Summit      Utah**

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**14,000**

19. PROPOSED DEPTH  
**14,000**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**8910.2 Ground**

22. APPROX. DATE WORK WILL START\*  
**June 25, 1965**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"		90'	Circulate to surface ✓
17-1/2"	13-3/8"		2000'	2000 sx.
12-1/4"	8-5/8"	(If required)*	9500'	250 sx.
7-7/8"	5-1/2"		14000'	Cover any possible pay zone

\* If not required 9-7/8" hole will be drilled to TD.

It is proposed to drill a 14,000 ft. hole to test the Morrison Sand for possible gas production.

Bridger Lake Unit Agreement approved by U.S. Dept. of Interior, Arthur A. Baker, Acting Director of Geol. Survey, on May 15, 1965. A copy of the Unit Agreement will be furnished.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED H. Egolf TITLE Dist. Supt. DATE 6-14-65

(This space for Federal or State office use)

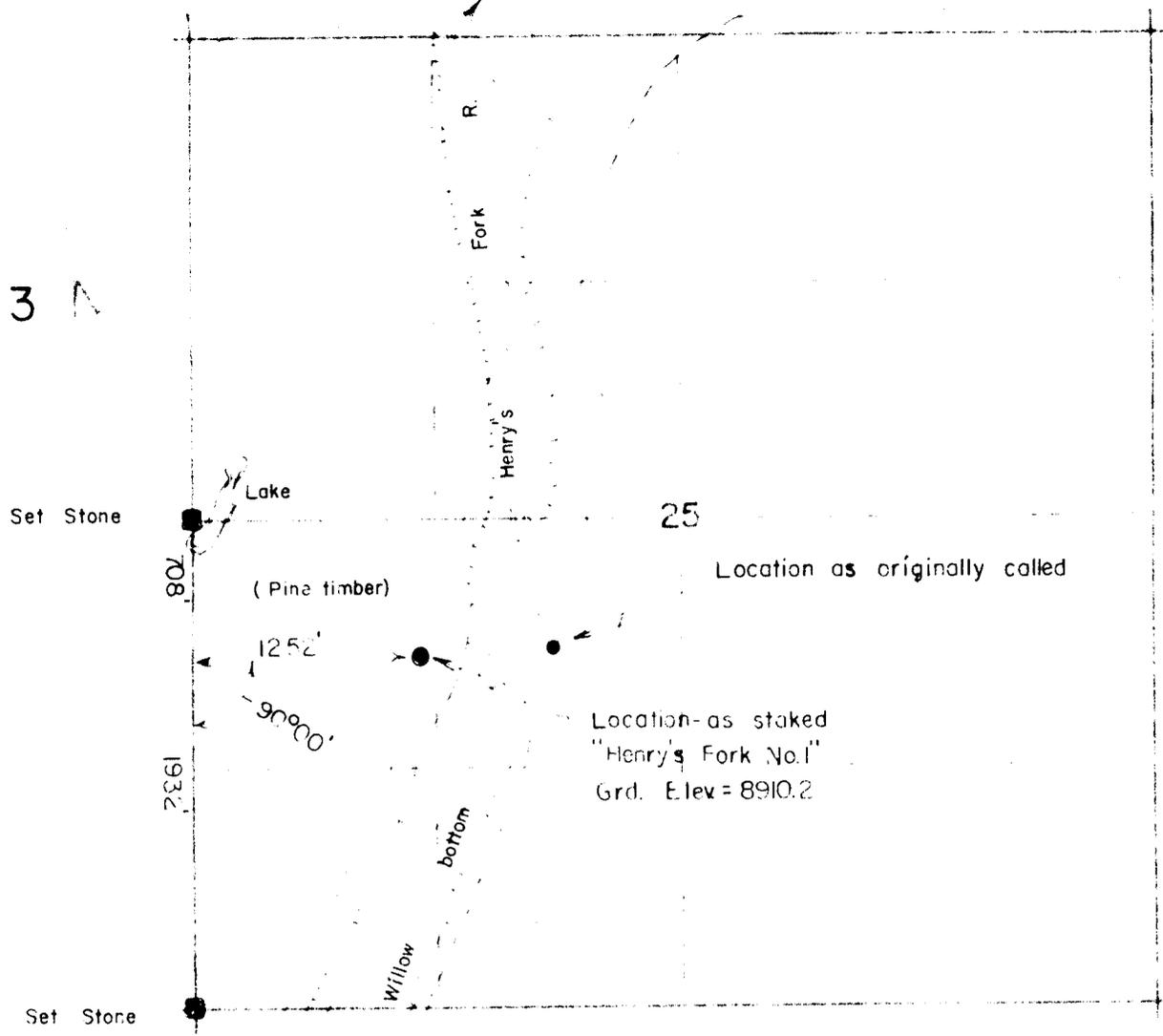
PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

45

R14E

T 3 N



SURVEYOR'S CERTIFICATE

I, Robert Mack Smith of Rawlins, Wyo., do hereby certify that this map was made from field notes taken on survey made by me during Nov., 1964; and that it correctly represents the well location "Henry's Fork No. 1" as surveyed in the field.

Utah For. No. 2572 *Robert Mack Smith*  
 LS

- Ref. point  $77^{\circ}12'E$ , 200' from loc. Elev. = 8922.6
- Ref. point  $67^{\circ}12'W$ , 163' from loc. Elev. = 8911.7
- Ref. point  $69^{\circ}24'E$ , 88' from loc. Elev. = 8902.2
- Ref. point  $71^{\circ}23'W$ , 170' from loc. Elev. = 8908.9

Elevations are referred to USFS Triangulation Sta. "Petsy" in Sec. 28, T12N, R11W, Wyo.; Elev. = 8665.3 as established by plane table survey by Mobil Dies Crew.

WELL LOCATION

"Henry's Fork No. 1"  
 FOR  
 Phillips Petroleum Co.

IN  
 NW/4 SW/4 Sec. 25, T3N, R14E, S1 Mer.  
 Summit Co., Utah

46

June 16, 1965

Phillips Petroleum Company  
Box 2331  
Casper, Wyoming

Attention: Mr. F. H. Egolf, District Superintendent

Re: Notice of Intention to Drill Well No.  
BRIDGER LAKE UNIT FORK "A"-#1, 1932'  
FSL & 1252' FWL, SE NW SW of Sec. 25,  
T. 3 N., R. 14 E., SLEM, Summit County,  
Utah.

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is granted.

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

PAUL W. BURCHELL, Chief Petroleum Engineer  
Home: 277-2890 - Salt Lake City, Utah

HARVEY L. COONTS, Petroleum Engineer  
Home: 487-1113 - Salt Lake City, Utah

Office: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days if this well has not been spudded-in within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands ( aquifers ) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated

1/5

June 16, 1965

Incidentally, in checking your Notice of Intention to Drill we were unable to determine the grade of casing you intend to use for your surface pipe. It is recommended that a grade of not less than J-55 be used. It should be seamless and new or new equivalent casing. In setting the pipe, an oil well cement should be used and circulated to the surface. It is further recommended that after waiting on the cement, the casing be tested with clear water at a minimum pressure of 1200 psi for at least 15 minutes.

It would be appreciated if this office could receive an unexecuted copy of the Bridger Lake Unit as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE DIRECTOR

CBF:kgw

cc: Mr. Rodney Smith, District Engineer  
U. S. Geological Survey  
Salt Lake City, Utah

Enclosure - Forms

44

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

LAND OFFICE Utah  
LEASE NUMBER 013145  
UNIT Bridger Lake Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Summit Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1965, Fork A

Agent's address P. O. Box 2331 Company Phillips Petroleum  
Casper, Wyo. Signed [Signature]

Phone 237-3791 Agent's title Dist. Mgr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1	-						Drilling 4435. Spudded 7-4-65. Set 20" conductor pipe at 86' cemented with 250 sx, 2% CaCl. Drld to 2022. Set 13-3/8" casing at 2021, cemented with 1210 sx reg. cement 3% CaCl, 10 pct Diacel D, cement circulated. Tested casing with 2000 psi, 30 min, OK.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

INDUSTRIAL COMMISSION OF UTAH

RIG SAFETY INSPECTION

Name of Company Phillips Petroleum Company Date August 11, 1965

Name of Drilling Contractor Loffland Brothers Drilling Co.

Well Name and Number Bridger Lake Unit Fork "A"-#1 Rig No. 67 Field Bridger Lake

Section 25 Township 3 N. Range 14 E.

County Summit State Utah Driller Geo. Stewart

Number Present 5 Toolpusher Bob Reigan

Days worked since last lost-time accident No accidents

Items causing lost-time accidents that have been corrected, or which need to be corrected None

Accidents or near accidents that have occurred on rig since last inspection None

Any new employees in crew No Have instructions been given the new crew members None

	(Good) Yes	(Poor) No
Escape Line and Slide-----	<u>X</u>	_____
Ladders, Side Rails, Steps-----	<u>X</u>	_____
Walk-Around Floor and Railing-----	<u>X</u>	_____
Engines Guarded-----	<u>X</u>	_____
Rotary Drive Guard-----	<u>X</u>	_____
All High Pressure Fittings in High Pressure Lines-----	<u>X</u>	_____
Fire Hazards Controlled-----	<u>X</u>	_____
General Housekeeping-----	<u>X</u>	_____
Hard Hats-----	<u>X</u>	_____
First Aid Kit-----	<u>X</u>	_____
Blowout Preventer-----	_____	<u>X (1)</u>
Cellar Clean, No Debris-----	<u>X</u>	_____

Unsafe practices that might cause a mishap, and recommendations made for a safe method of doing the job None Visible

Drillers, Toolpushers or Drilling Superintendents reactions Good

Remarks (1) Checked Hydril- Blowout Preventer- O. K. with pipe in hole.

Deputy Inspector Harvey L. Coonts, Engineer Utah Oil & Gas Conservation Commission

COMMISSIONERS

B. H. CROFT  
CHAIRMAN  
C. R. HENDERSON  
C. S. THOMSON  
M. V. HATCH  
J. H. REESE

EXECUTIVE DIRECTOR  
C. B. FEIGHT



THE STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH 84111

DAvis 8-5771

August 18, 1965

PETROLEUM ENGINEERS

PAUL W. BURCHELL  
CHIEF ENGINEER  
HARVEY L. COONTS  
SALT LAKE CITY

Phillips Petroleum Company  
Box 2331  
Casper, Wyoming

Re: Well No. Bridger Lake Unit Fork "A"-#1  
Sec. 25, T. 3 N., R. 14 E.,  
Summit County, Utah

July, 1965

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the above mentioned month (s), for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b ((U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells")), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

Kathy G. Warner:

*Kathy G. Warner*  
KATHY G. WARNER  
RECORDS CLERK

We are very sorry you failed to receive copy of the report covering the subject well for July, 1965. Our records indicate a copy sent you but a mixup may have occurred.  
kgw

A copy of the USGS report is attached.  
Encl: Forms Thank you -

F. C. Groll - Dist. Supt.

COMMISSIONERS

B. H. CROFT  
CHAIRMAN

C. R. HENDERSON

C. S. THOMSON

M. V. HATCH

J. H. REESE

EXECUTIVE DIRECTOR

C. B. FEIGHT



PAUL W. BOYD  
CHIEF ENGINEER  
HARVEY L. COONTS  
SALT LAKE CITY

THE STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH 84111

DAvis 8-5771

August 18, 1965

Phillips Petroleum Company  
Box 2331  
Casper, Wyoming

Re: Well No. Bridger Lake Unit Fork "A"-#1  
Sec. 25, T. 3 N., R. 14 E.,  
Summit County, Utah

July, 1965

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the above mentioned month (s), for the subject well Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER  
RECORDS CLERK

kgw

Encl: Forms

45

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Utah  
LEASE NUMBER 013145  
UNIT Bridger Lake Unit

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Summit Field Wildcat  
*The following is a correct report of operations and production (including drilling and producing wells) for the month of* August, 1965, Fork A  
 Agent's address Box 2331 Company Phillips Petroleum  
Casper, Wyoming Signed \_\_\_\_\_  
 Phone 237-3791 Agent's title Dist. Supt.

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1	-						Drilling at 7747.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)  
 NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

LAND OFFICE Utah  
LEASE NUMBER 013145  
UNIT Bridger Lake Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Summit Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1965, Fork A

Agent's address Box 2331 Company Phillips Petroleum  
Casper, Wyo. Signed \_\_\_\_\_

Phone 237-3791 Agent's title Dist. Supt.

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1	-						Drilling at 11135 ✓

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;  
\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER 013145  
UNIT Bridger Lake Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Summit Field Wildcat  
 The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 19 65  
 Agent's address Box 2331 Company Phillips Petroleum  
Casper, Wyo. Signed [Signature]  
 Phone 237-3791 Agent's title Dist. Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1	-						Drilling at 14,139.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved by  
Budget Bureau No. 42-R356.5  
Utah  
LAND OFFICE  
LEASE NUMBER 013145  
UNIT Bridger Lake Unit

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Summit Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 19 65 Fork A

Agent's address Box 2331 Company Phillips Petroleum

Casper, Wyo. Signed \_\_\_\_\_

Phone 37-3791 Agent's title Dist. Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW 3/4 Sec. 25	36	14E	1	40						Drilling at 14,139.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold; \_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Utah  
LEASE NUMBER 013145  
UNIT Bridger Lake Unit

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Summit Field Wildcat  
 The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1965, Fork A  
 Agent's address Box 2331 Company Phillips Petroleum  
Casper, Wyo. Signed [Signature]  
 Phone 23 7-3791 Agent's title Dist. Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1							TD 15410 pulling core No. 2. Drilled to 15315. Cut Core No. 1 15315-15356. Cut 41' rec 32 ft. 1' ss, vr sh oil stain, 31' 50 to 60 pct sd, streaks of silty sh, hard & tite, no show.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
Box 2331 Casper, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
1252 ft. East of West Line & 1932 North of South Line Sec. 25  
 At proposed prod. zone  
Same

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

5. LEASE DESIGNATION AND SERIAL NO.  
Utah 013145

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Bridger Lake Unit

8. FARM OR LEASE NAME  
Fork A

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 25-3N-14E S.L.M.

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
16,500

19. PROPOSED DEPTH  
16,500

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
8910.2 Ground

22. APPROX. DATE WORK WILL START\*  
Drilling

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Well has been drilled to original proposed depth of 14,000 feet. Formation Log Tops are: Mesaverde 10,917, Hilliard 12,681 feet. No productive shows have been encountered and approval is requested to deepen to 16,500 feet.

APPROVED BY UTAH OIL AND GAS CONSERVATION COMMISSION

DATE: 11/4/65 by Frederic A. Birchell

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Dist. Superintendent DATE 11-3-65

(This space for Federal or State office use)

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

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

CONDITIONS OF APPROVAL, IF ANY:

November 24, 1965

Phillips Petroleum Company  
Box 2311  
Casper, Wyoming

Re: Well No. Bridger Lake Unit Fork "A"-#1  
Sec. 25, T. 3 N., R. 14 E.,  
Summit County, Utah

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the above mentioned month (s), for the subject well. Rule C-22(L), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANNETTE R. HANSEN  
RECORDS CLERK

arh

Enclosure: Forms

5/

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Utah  
LEASE NUMBER 013145  
UNIT Bridger Lake

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Summit Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1965, Fork A

Agent's address Box 2531 Company Phillips Petroleum

Casper, Wyo. Signed [Signature]

Phone 237-3791 Agent's title Dist. Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1							<p>TD 15,754 PTD 15666. Cored from 15,356 to 15604, Dakota sand. Drilled to 15754. Ran logs. Schl. Log Tops: Frontier 14,922, Mowry 15,023, Dakota Silt 15,228. Ran 5-1/2" casing set at 15,703, cemented with 390 sx reg cement, 10 percent Diacel D, .3 pct LML, 50 lb Floseal. Ran temperature survey, top of cement 14,760. Perforated casing 2 jets per foot 15,555-586 and 15,504-517. Ran 2-7/8" tbg and Johnston Fast Tool, bridge plug set 15632, packer set 15,537. Tested Dakota lower perms 15,555-586 4 hrs on 6/64" choke, flowed 255 bbls oil, no water, FTP 1300 psi. Tested 3 hours on 8/64" choke, flowed 277 bbls oil, no water, FTP 954 psi. Shut in for tank room, SITP 2300 psi.</p>

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

CORRECTED REPORT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Utah  
LEASE NUMBER 013145  
UNIT Bridger Lake

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Summit Field Bridger Lake

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1965, Fork "A"

Agent's address Box 2331 Company Phillips Petroleum Company

Casper, Wyoming Signed [Signature]

Phone 237-3791 Agent's title District Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1	-						TD 15,754 PTD 15,666. Cored from 15,356 to 15,604 Dakota sand. Drilled to 15,754. ran logs. Schl. Log Tops: Frontier 14,922, Mowry 15,023, Dakota Silt 15,228. Ran 5 1/2" casing set at 15,703, cemented with 390 sx regular cement, 10% Diacel D, .3% LWL, 50 lb Floseal. Ran temperature survey, top of cement 14,760. Perforated casing w/ 2 jets per foot 15,555-586 and 15,504-517. Ran 2-7/8" tbg and Johnston Fast Tool, bridge plug set 15,632, packer set 15,537. Preparing to test lower Dakota perms. Flowed to pit to clean up.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

January 21, 1966

Phillips Petroleum Company  
P. O. Box 2331  
Casper, Wyoming

Re: Well Nos. Bridger Lake Unit Fork 'A'-#1,  
Sec. 25, T. 3 N., R. 14 E., and  
Bridger Lake Unit Fork 'A'-#2, Sec. 26,  
T. 3 N., T. 14 E., and Bridger Lake Unit  
Fork 'A'-#3, Sec. 25, T. 3 N., R. 14 E.,  
Summit County, Utah.

Gentlemen:

It has come to the attention of this office that you might want the above mentioned wells held Confidential. If so, would you please refer to Rule C-5(b), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

Please notify this office by letter as soon as possible if you desire said wells to be held Confidential. If we do not hear from you by February 2, 1966, we will assume this information on these wells can be released.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANNETTE R. HANSEN  
RECORDS CLERK

ah



Phillips → Ridge Lake  
Bottom hole Pressure = 7200 psi  
T = 217° F @ 15525  
Production 6 hr = 676 bbls/mo  
2.321 MCF water  
turbine pressure = 645  
GOR = 858

39.1° API → low pour point  
dark green  
↓  
Not condensate

surveying 2 more locations

↓  
160 acre spacing

↓  
selling up for 20

Jan 7, 1966 from USGS to PWB

6  
D



PHILLIPS PETROLEUM COMPANY

P. O. Box 2331  
Casper, Wyoming

January 24, 1966

In re: Fork "A" No. 1,  
Bridger Lake Unit,  
Summit County, Utah

The State of Utah  
Oil & Gas Conservation Commission  
348 East South Temple, Suite 301  
Salt Lake City, Utah 84111

Attn: Annette R. Hansen, Records Clerk

Gentlemen:

Thank you for your letter of January 21, 1966, regarding the subject well.

We wish to invoke Rule C-5 (B&C) that information on the Fork "A" No. 1, Bridger Lake Unit, be held confidential for the prescribed four (4) months period as set out in the General Rules and Regulations. Should it be desired to release the information at an earlier date, we will so advise you.

Very truly yours,

F. H. Egolf  
District Superintendent

KAM:gm

25

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Utah  
LEASE NUMBER 013145  
UNIT Bridger Lake

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Summit Field Bridger Lake

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1966, Fork A

Agent's address Box 2331 Company Phillips Petroleum  
Casper, Wyo. Signed [Signature]

Phone 23-7-3791 Agent's title Dist. Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1							PTD 15632 Production pkr set at 15490 to test upper & Lower Dakota zones. Ran 2-7/8" tbg, set in pkr. IP Test 1-28-66, 16 hrs Flowed on 3/4" choke, FTP 750 psi, 2753 BOPD rate, 4.4 pct Formation wtr, avg GOR 878, Oil gravity 40.3 at 60 deg
NW SE										[REDACTED]
NW NW										[REDACTED]

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)  
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other [ ]
b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other [ ]
2. NAME OF OPERATOR: Phillips Petroleum Company
3. ADDRESS OF OPERATOR: P. O. Box 2391 Casper, Wyoming
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*
At surface: 1252' NW1/4 1932' NE1/4, S. 25
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED
15. DATE SPUNDED: 7-4-63
16. DATE T.D. REACHED: 12-16-65
17. DATE COMPL. (Ready to prod.): 1-28-66
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*: 8910.2 OR
19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD & TVD: 15754
21. PLUG, BACK T.D., MD & TVD: 15632
22. IF MULTIPLE COMPL., HOW MANY\*:
23. INTERVALS DRILLED BY: 15754
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*: 15555-586 & 15504-517 Dakota Zone
25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Schlumberger DI-18, BCSM/C, CDM, IES McCullough Correlation
27. WAS WELL CORED: Yes

28. CASING RECORD (Report all strings set in well)
Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED

29. LINER RECORD and 30. TUBING RECORD
Table with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT\*, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION
Table with columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKED SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL, GAS-MCF, WATER-BBL, GAS-OIL RATIO, FLOW. TUBING PRESS., CASING PRESSURE, CALCULATED 24-HOUR RATE, OIL-BBL, GAS-MCF, WATER-BBL, OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Used for fuel
TEST WITNESSED BY: J. H. Nation

35. LIST OF ATTACHMENTS: Core Descriptions

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
Dist. Superintendent 2-15-66

SIGNED: [Signature] TITLE: DATE: 2-15-66

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

# INSTRUCTIONS

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

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

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

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

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

**37. SUMMARY OF POROUS ZONES:** SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			<p>Core #1, 15215-56, c.t. 41', CR. laminated, rec 32', 1' ss w/very silty sh, hard &amp; tile MS. 31' ss w/strike silty sh, hard &amp; tile MS.</p> <p>Core #2, 15256-410, cut 54', rec 51', 17' sd, tan to brn, good poro, MS. 3' sd conglom; 2' sd, tan to brn MS. 7' sh, blk; 2' sd, dk gray, very hard MS. 2' siltst; 11' sd, gray very hard MS. 7' sh, blk MS.</p> <p>Core #3, 15410-406, cut &amp; rec 50'; 2' sd, vr fin gr, hard &amp; tile, shaley at base; 4' sh, thin sd strks w/zone pale yellow fluor; 3' sd, hard &amp; tile, strks fair poro; 11' sd, fair poro at top, hard &amp; tile at base zone fluor &amp; silt cut; 10' ss above, poor poro; 1' siltstone; 2' sd, tile w/zone fluor &amp; silt cut; 3' ss, poor poro, hard &amp; tile, silt odor, 10' pale blue white fluor; 17' ss as above, fair odor, low poro, 1' sd, conglom w/clay matrix, some fluor, silt yellow cut.</p>

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Ft. Union	6294		
Mesaverde	10917		
Hilliard	12681		
Frontier	14927		
Mowry	15023		
Takota silt	15252		
Dakota	15314		
Morrison	15366		

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

Utah 013145

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Bridger Lake Unit

8. FARM OR LEASE NAME

Fork A

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Bridger Lake

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

Sec. 25-3N-14E 31M

12. COUNTY OR PARISH Summit

13. STATE Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other [ ]

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other [ ]

2. NAME OF OPERATOR Phillips Petroleum Company

3. ADDRESS OF OPERATOR P. O. Box 2331 Casper, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\* At surface 1252' EWL & 1932' NSL, Sec. 25 At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 7-4-65 16. DATE T.D. REACHED 12-16-65 17. DATE COMPL. (Ready to prod.) 1-28-66 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 8910.2 GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 15754 21. PLUG, BACK T.D., MD & TVD 15692 22. IF MULTIPLE COMPL., HOW MANY\* - 23. INTERVALS DRILLED BY ROTARY TOOLS 15754 CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 15555-586 & 15504-517 Dakota Zone 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger DI-LS, BCSGR/C, CIM, IES McCullough Correlation 27. WAS WELL CORED Yes

Table with 4 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE. Rows include 20", 13-3/8", and 5-1/2" casing sizes.

Table with 4 columns: LINER RECORD (SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT\*) and 30. TUBING RECORD (SIZE, DEPTH SET (MD), PACKER SET (MD)).

Table with 2 columns: 31. PERFORATION RECORD (Interval, size and number) and 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. (DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED).

33.\* PRODUCTION DATE FIRST PRODUCTION 1-2-66 PRODUCTION METHOD Flowing WELL STATUS (Producing or shut-in) Producing

Table with 8 columns: DATE OF TEST, HOURS TESTED, CHOKE SIZE, PROD'N. FOR TEST PERIOD, OIL—BBL., GAS—MCF., WATER—BBL., GAS-OIL RATIO. Includes flow tubing pressure and casing pressure data.

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

35. LIST OF ATTACHMENTS Core Descriptions

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

SIGNED [Signature] TITLE Dist. Superintendent DATE 2-15-66

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

# INSTRUCTIONS

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

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

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

**37. SUMMARY OF POROUS ZONES:**

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			<p><b>Core #1, 15315-56, cut 41', CB jammed, rec 2', 1' ss w/very all oil stain, fl. ss w/stria silty sh, hard &amp; tite ss.</b></p> <p><b>Core #2, 15356-410, cut 54', rec 51', 17' sd, tan to brn, good poro, ss. 3' sd conglom; 2' sd, tan to brn ss. 7' sh, blk; 2' sd, dk gray, very hard ss. 2' siltst; 11' sd, gray very hard ss. 7' sh, blk ss.</b></p> <p><b>Core #3, 15A10-468, cut &amp; rec 58'; 2' sd, w/ sh gr, hard &amp; tite, shaley at base; 4' sh, thin sd stris w/some pale yellow clays; 5' sd, hard &amp; tite, stris fair poro; 11' sd, fair poro at top, hard &amp; tite at base some floor &amp; all cut; 10' as above, poor poro; 1' siltstone; 2' sd, tite w/some floor &amp; all cut; 3' sd, poor poro, hard &amp; tite, all odor, w/ pale blue low poro, 1' sd, conglom w/clay matrix, some floor, dull yellow cut.</b></p>

**38. GEOLOGIC MARKERS**

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
<b>SCHLUMBERGER TOPS</b>			
Ft. Union	8292		
Mesaverde	10917		
Milliard	12681		
Frontier	14927		
Mowry	15023		
Dakota Silt	15282		
Dakota	15314		
Morrison	15588		

MAR 25 1966

37. Summary of Porous Zones (Cont'd):

Core Descriptions Cont'd:

- Core #4, 15468-15515, cut 47' rec 32'. 2' sd, some lite brown oil stain fair to good poro, good pale yellow fluor, streaming cut; 1' sd as above w/sh intervals; 1' blk sh; 9' sd, shaley, NS; 2' vr shaley sd; 14' sh, 2' sd near base, hard & tite; 1' sd, bleeding yellow brown oil, good fluor & cut; 2' sd. Good yellow fluor & cut, fair to good poro. Lost bottom 15' of core, CB jammed.
- Core #5, 15515-15542, cut 27' rec 21. 4' no rec; 1' sd, dull yellow fluor fair cut; 9' sh; 2' sd, hard & tite, NS; 1' sd as above, blue pin point fluor, vr sli slo streaming cut; 5' hard sh; 2' sd, hard & tite, NS; 1' sd, hard & tite, fair blue pin point fluor, no cut; 2' no rec.
- Core #6, 15542-15591, cut 49', rec 39', 6' sd st, dk gray to green, vy fn gr, hard & tite, pale yellow fluor & good pale yellow streaming cut, becoming spotted fluor & fair cut at base. 2' shale, dk gray, sdy, abundant friable. 3' sd st, dk gray green, vy fn gr, hd & tite, pale blue, yellow fluor & sli cut. 18' sd st, lt gray white, vy fn to fn gr, sli friable, spotted lt brn oil stain incr to 100% stain at base, fair odor, good yellow fluor & fair cut. 9' sd st, lt gray, fn to med gr, friable to hard, good to poor poro, good oil odor, stain fluor & cut. 1' shale, blk pyrite crystals & sulphur odor. 10' lost.
- Core #7, 15591-15,604, cut 13' rec 11', 8' sh, red-blk, varig in places, sctd gy-brn ls & dol-ls, frac fillings & incl, hd & sli calc in places. 1' ls, lt gr-bn, fnly xylene, vy hd. 2' sh, dk gn-blk, sctd ls incl & frac fillings, hd. NS O or G or W.

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 279

Casper, Wyoming

## WATER ANALYSIS REPORT

*Paul Burrell  
Utah Conserv. Com.  
Salt Lake*

OPERATOR Phillips Petroleum Company DATE February 23, 1966 LAB NO. 22032  
 WELL NO. Fork A-1 LOCATION NW SW 25-3N-14E  
 FIELD Wildcat FORMATION Dakota  
 COUNTY Summit INTERVAL 15504-517 & 15555-586  
 STATE Utah SAMPLE FROM Separator (Production)

REMARKS & CONCLUSIONS: Brown colored water.  
Total iron - - - - - 33.0 milligrams per liter.  
Correlates with previous samples from this well. Believe this is Dakota water.

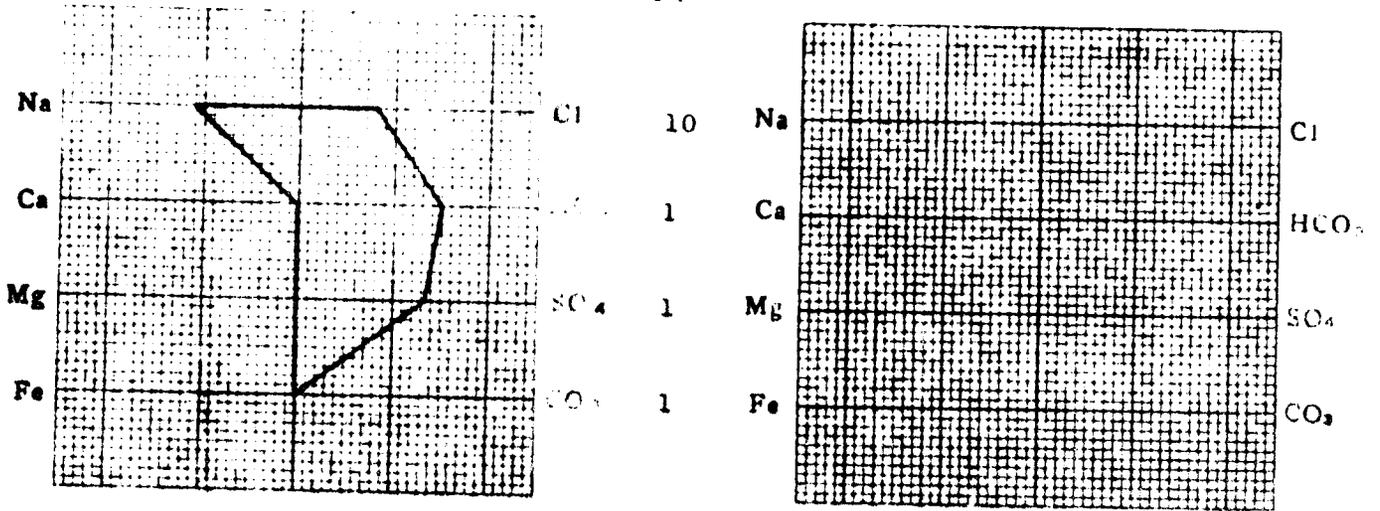
Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	2,542	110.59	Sulfate	670	13.94
Potassium	8	0.20	Chloride	2,940	83.91
Lithium	-	-	Carbonate	-	-
Calcium	17	0.85	Bicarbonate	927	15.20
Magnesium	5	0.41	Hydroxide	-	-
Iron	present	-	Hydrogen sulfide	absent	-
Total Cations			Total Anions		
112.05			112.05		

Total dissolved solids, mg/l 6,338 ✓  
 NaCl equivalent, mg/l 6,101  
 Observed pH 7.2

Specific resistance @ 68°F:  
 Observed 1.02 ohm-meters  
 Calculated 1.01 ohm-meters

### WATER ANALYSIS PATTERN

Scale MEQ per Unit  
 Sample above described



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter (ppm). Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Duntz & Hawthorne calculation from components

*C: Marvin Combs - Wasatch Dist. Forrest Ragger  
 T. L. Osborne, J. C. Smith, Earl Griffith*

*Paul Burchell  
Utah Conserv. Com.  
Salt Lake*

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 279  
Casper, Wyoming

## WATER ANALYSIS REPORT

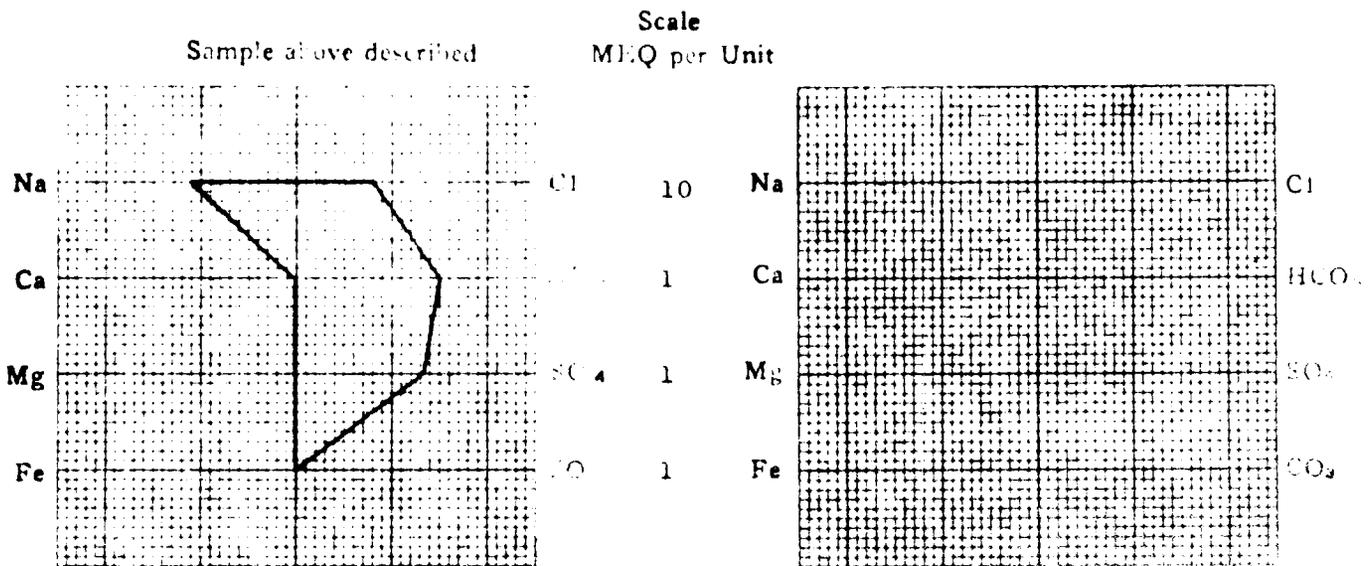
OPERATOR Phillips Petroleum Company      DATE February 23, 1966      LAB NO. 22032  
 WELL NO Fork A-1      LOCATION NW SW 25-3N-14E  
 FIELD Wildcat      FORMATION Dakota  
 COUNTY Summit      INTERVAL 15504-517 & 15555-586  
 STATE Utah      SAMPLE FROM Separator (Production)

REMARKS & CONCLUSIONS: Brown colored water.  
Total iron ----- 33.0 milligrams per liter  
Correlates with previous samples from this well. Believe this is Dakota water.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	2,542	110.59	Sulfate	670	13.94
Potassium	8	0.20	Chloride	2,940	82.91
Lithium			Carbonate		
Calcium	17	0.85	Bicarbonate	927	15.20
Magnesium	5	0.41	Hydroxide		
Iron	present		Hydrogen sulfide	absent	
Total Cations			Total Anions		
112.05			112.05		

Total dissolved solids, mg/l 6,338 ✓      Specific resistance @ 68°F:  
 NaCl equivalent, mg/l 6,101      Observed 1.02 ohm-meters  
 Observed ppt 7.2      Calculated 1.01 ohm-meters

### WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter (ppm). Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

*cc: Marvin Combs - Wasatch Dist. Forest Ranger  
 J. L. Osborn, J. C. Smith, Earl Griffin*

**CHEMICAL & GEOLOGICAL LABORATORIES**

P. O. Box 279

Casper, Wyoming

**WATER ANALYSIS REPORT**

*Paul Burchell  
Utah Conserv. Com.  
Salt Lake*

OPERATOR Phillips Petroleum Company DATE February 23, 1966 LAB NO. 22032  
 WELL NO Fork A-1 LOCATION NW SW 25-3N-14E  
 FIELD Wildcat FORMATION Dakota  
 COUNTY Summit INTERVAL 15504-517 & 15555-586  
 STATE Utah SAMPLE FROM Separator (Production)

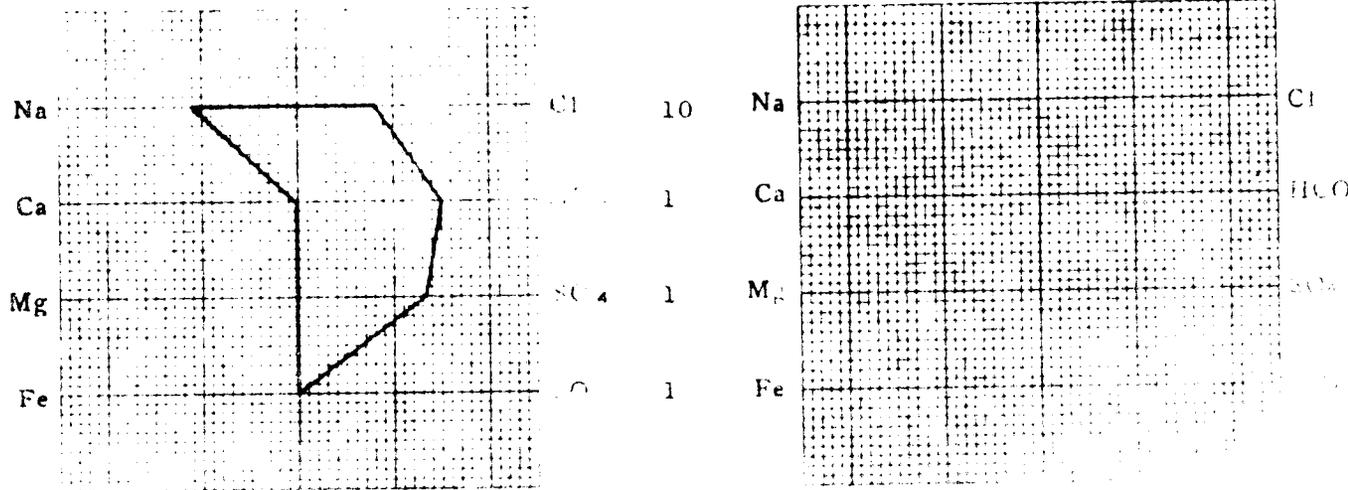
REMARKS & CONCLUSIONS: Brown colored water.  
Total iron ----- 33.6 milligrams per liter  
Correlates with previous samples from this well. Believe this is Dakota water.

Cations		Anions	
	mg/l	mg/l	meq/l
Sodium	2,542	Sulfate	670
Potassium	8	Chloride	2,940
Lithium		Carbonate	
Calcium	17	Bicarbonate	927
Magnesium	5	Hydroxide	
Iron	present	Hydrogen sulfide	absent
Total Cations		Total Anions	
112.05		112.05	

Total dissolved solids, mg/l 6,338 Specific resistance @ 68°F:  
 NaCl equivalent, mg/l 6,101 Observed 1.02 ohm-meters  
 Observed pH 6.2 Calculated 1.01 ohm-meters

**WATER ANALYSIS PATTERN**

Scale  
MEQ per Unit



(Na value in above graphs includes Na, K, and Li)  
 MEQ/l - Milligrams per liter (ppm), Meq/l - Milligram equivalent  
 Sodium chloride equivalent by Dunlop & Hawthorne Co., Denver, Colorado

*18*  
*Wasatch Dist Forrest Camp*  
*J. C. Smith, Earl G. Smith*

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 279  
Casper, Wyoming

## WATER ANALYSIS REPORT

*Paul Burehall  
Utah Conserv. Com.  
Salt Lake*

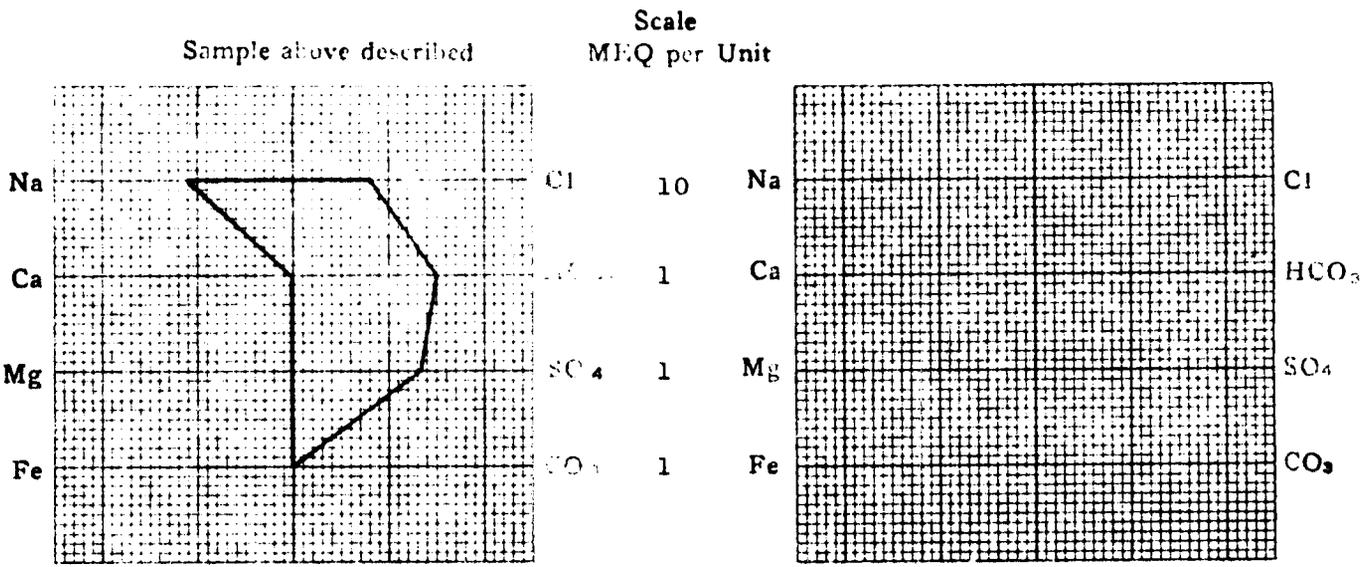
OPERATOR Phillips Petroleum Company DATE February 28, 1966 LAB NO. 22032  
 WELL NO. Fork A-1 LOCATION NW SW 25-3N-14E  
 FIELD Wildcat FORMATION Dakota  
 COUNTY Summit INTERVAL 15504-517 & 15555-586  
 STATE Utah SAMPLE FROM Separator (Production)

REMARKS & CONCLUSIONS: Brown colored water.  
Total iron - - - - - 33.6 milligrams per liter  
Correlates with previous samples from this well. Believe this is Dakota water.

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	2,542	110.59	Sulfate	670	13.94
Potassium	8	0.20	Chloride	2,940	82.91
Lithium	-	-	Carbonate	-	-
Calcium	17	0.85	Bicarbonate	927	15.20
Magnesium	5	0.41	Hydroxide	-	-
Iron	present	-	Hydrogen sulfide	absent	-
Total Cations		112.05	Total Anions		112.05

Total dissolved solids, mg/l 6,338 ✓ Specific resistance @ 68°F.:  
 NaCl equivalent, mg/l 6,101 Observed 1.02 ohm-meters  
 Observed pH 7.2 Calculated 1.01 ohm-meters

### WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter (ppm). Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

*Marvin Combs - Wasatch Dist. Forrest Ranger  
 T. L. Osborne, J. C. Smith, Earl Griffin*

the State of UTAH Department of

# fish and game

GOVERNOR  
CALVIN L. RAMPTON  
COMMISSIONERS  
WESLEY A. NELSON  
LEWIS C. SMITH  
K. E. BULLOCK  
LAMAR A. DASTRUP  
DR. PAUL G. STRINGHAM

1000 WEST NORTH TEMPLE • SALT LAKE CITY, UTAH 84116 • 343-7014

May 9, 1966

MAY 11 1966

Mr. Freeman Egolf  
District Superintendent  
Phillips Petroleum Company  
P. O. Box 2331  
Casper, Wyoming

307  
239-3991

Dear Mr. Egolf:

I would like to take this opportunity to thank you for participating in the meetings recently held in Mountain View, Wyoming regarding the potential problem of stream pollution on Henry's Fork as a result of recent oil drilling activities of the Phillips Petroleum Company. We are appreciative of the attitude of cooperation expressed at this time by yourself and Mr. Nations for the Phillips Company in resolving potential problems in this area.

It is our desire to cooperate fully with industry and others wherever possible to prevent potential problems from becoming an actuality. We realize that it is company policy, in most cases, to take precautions to prevent pollution from occurring. However, our past experiences indicate that it is usually desirable, both from the standpoint of the industry as well as our own interests, to inform the industry of our needs in protecting downstream fish and wildlife resources.

Our Department is charged by law with protection of fish and wildlife resources for Utah and we are responsible for propagating and perpetuating these resources. Where pollution affecting fish and wildlife is concerned our responsibility is specifically covered in Title 23, Utah Code Annotated 1953, Section 23-3-5. A marked copy of this code is included for your information.

We wish you success in future oil development activities in Utah and will look forward to working with you and other Phillips Petroleum Company representatives on a cooperative basis for clean water.

Yours very truly,

John E. Phelps  
Acting Director

Enclosure

19

August 29, 1966

Phillips Petroleum Company  
P. O. Box 2331  
Casper, Wyoming

Re: Well No. Bridger Lake Unit Fork A-#1,  
Sec. 25, T. 3 N., R. 14 E.,  
Summit, County, Utah

Gentlemen:

We are in receipt of your well log for the above mentioned well (s). However, upon checking this information, we note that you did not report the water sands encountered while drilling.

Please complete the enclosed Forms OGCC-8-X, in quadruplicate, and return to this office as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANNETTE R. HANSEN  
RECORDS CLERK

arh

Enclosure

10

FORM OGCC-8-X  
FILE IN QUADRUPLICATE

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING  
-----  
-----

Well Name & Number Fork "A" No. 1

Operator Phillips Petroleum Company Address Casper, Wyoming Phone 307-237-3791

Contractor Loffland Brothers Company Address Casper, Wyoming Phone 307-237-2536

Location NW ¼ SW ¼ Sec. 25 T. 3N N R. 14E E Summit County, Utah.  
S W

Water Sands: NO FRESH WATER SANDS ENCOUNTERED.

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Continued on reverse side if necessary)

Formation Tops:

Ft. Union - 8292	Mowry - 15023
Mesaverde - 10917	Dakota Silt - 15282
Hilliard - 12681	Dakota - 15314
Frontier - 14927	Morrison - 15588

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform the Commission.
  - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).
  - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

9

T. L. Osborne

CL1-12A (REV. 1964)  
DRAKE PUBLISHING CO. - 91553

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 279  
Casper, Wyoming

## WATER ANALYSIS REPORT

RECEIVED REGIONAL WESTERN PRODUCTION

Prod. Mgr.	<input checked="" type="checkbox"/>
Prod. Engr.	<input checked="" type="checkbox"/>
Ofc. Mgr.	<input type="checkbox"/>
Ind. Rel. Adm.	<input type="checkbox"/>
Res. Engr.	<input checked="" type="checkbox"/>
Mech. Engr.	<input checked="" type="checkbox"/>
Reserves Engr.	<input checked="" type="checkbox"/>
Staff Engr.	<input type="checkbox"/>
Technol.	<input type="checkbox"/>
Susp.	<input type="checkbox"/>
File	<input checked="" type="checkbox"/>

OPERATOR Phillips Petroleum Company  
 WELL NO. Fork A-1  
 FIELD Wildcat  
 COUNTY Summit  
 STATE Utah

DATE January 29, 1966 LAB NO 21947-1  
 LOCATION NW SW 25-3N-14E  
 FORMATION Dakota  
 INTERVAL 15504-517 & 15555-586  
 SAMPLE FROM Wellhead (1-23-66)

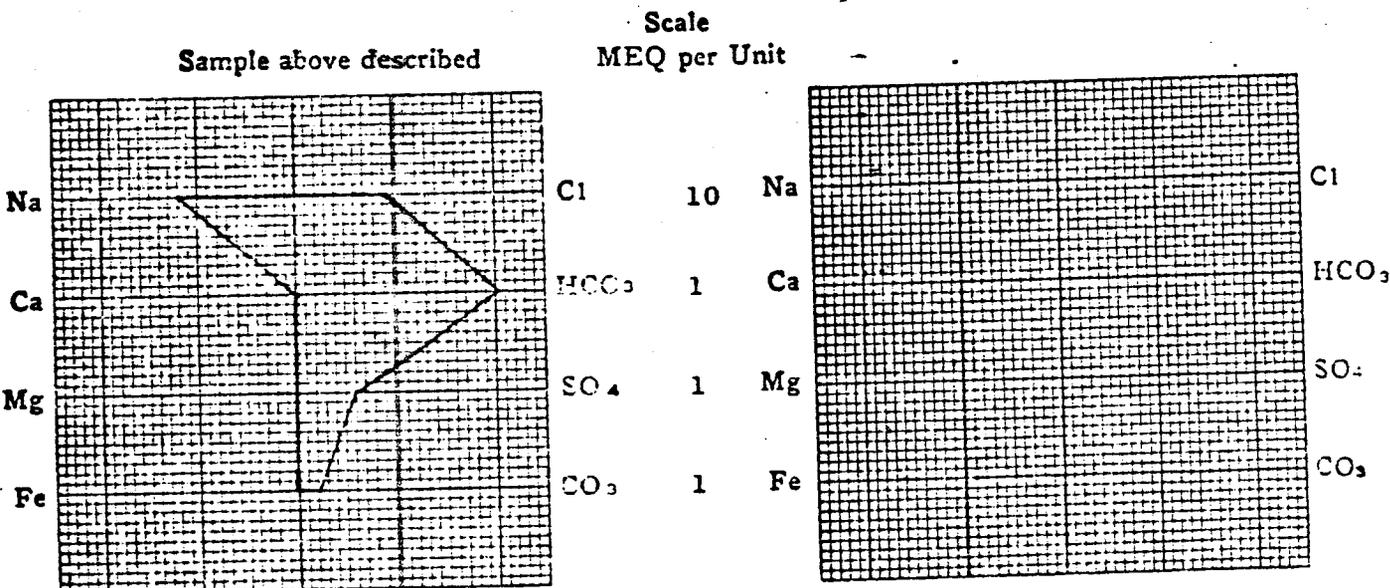
REMARKS & CONCLUSIONS: Light yellow water with oil scum.  
We are unable to correlate at this time.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	2,774	120.65	Sulfate	325	6.76
Potassium	8	0.20	Chloride	3,260	91.93
Lithium	0	-	Carbonate	60	2.00
Calcium	9	0.45	Bicarbonate	1,257	20.61
Magnesium	trace	-	Hydroxide	-	-
Iron	absent	-	Hydrogen sulfide	absent	-
<b>Total Cations</b>		<b>121.30</b>	<b>Total Anions</b>		<b>121.30</b>

Total dissolved solids, mg/l 7,055  
 NaCl equivalent, mg/l 6,628  
 Observed pH 8.8

Specific resistance @ 68°F.:  
 Observed 0.92 ohm-meters  
 Calculated 0.98 ohm-meters

### WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter (ppm). Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN \_\_\_\_\_ (L) ATE\*  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 083145

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME <b>Bridge Lake Unit</b>
2. NAME OF OPERATOR <b>Phillips Petroleum Company</b>		8. FARM OR LEASE NAME <b>Fork #A</b>
3. ADDRESS OF OPERATOR <b>P. O. Box 2331 Casper, Wyoming</b>		9. WELL NO. <b>1</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  <b>1252' EML &amp; 1932' NSL</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>RKB 8926'</b>	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA <b>Sec. 25 T3N R14E</b>
		12. COUNTY OR PARISH <b>Summit</b>
		13. STATE <b>Utah</b>

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 checked="" 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"/>	

(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.)\*

**PTD 15,632'. Present average flowing production 830 BOPD and 145 MBPD.**

**It is proposed to fracture treat well with 12,000 gallons crude, 120 gallons FX-1A, 60 gallons Hylfo, 40 gallons FX-3, 250# moth balls, and also 200# 20-40 beads and 300# 12-20 beads (if sufficient pumping rate obtained).**

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

SIGNED *[Signature]* TITLE District Superintendent DATE December 15, 1967

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



He observes that all of these are tightly dragged, high angle thrust or reverse faults that dip to the south. Moreover, he states that apparently all have closely-related histories of deformation.

**North Flank Fault.** The North Flank fault zone is not well exposed, has not been examined in detail and is not too well known. Its western termination is concealed by overlapping volcanic rocks in an area of complex faulting, and the nature of its eastern termination has never been worked out adequately.

Recent work indicates that the North Flank fault does not join with the Uinta fault at the surface and probably does not join the Henrys Fork fault, although it might conceivably join either at depth.

**Crest Fault.** North of the axis of the Uinta Mountains in the western segment of the range is the Crest fault. The Crest fault trends along the foot of high peaks and ridges, just north of the range.

It terminates at Hayden Peak, near the junction of the Bear, Weber, and Provo watersheds by splitting into three shear zones. The fault is not continuous with the Uinta fault, and exhibits a dip of 75° to the south. It exhibits marked drag in both walls especially in its north wall, in common with other faults of the Uinta Mountains.

**Henrys Fork Fault.** The buried extension of the possible western portion of the Henrys Fork fault may be related to the geology of the Bridger Fork prospect discovered by Phillips Petroleum Company in Summit County, northeastern Utah.

Structurally, the Henrys Fork fault resembles the Uinta fault in major aspects. However, it is shorter, exhibits less displacement, generally has strata overturned on both walls, and many slices throughout.

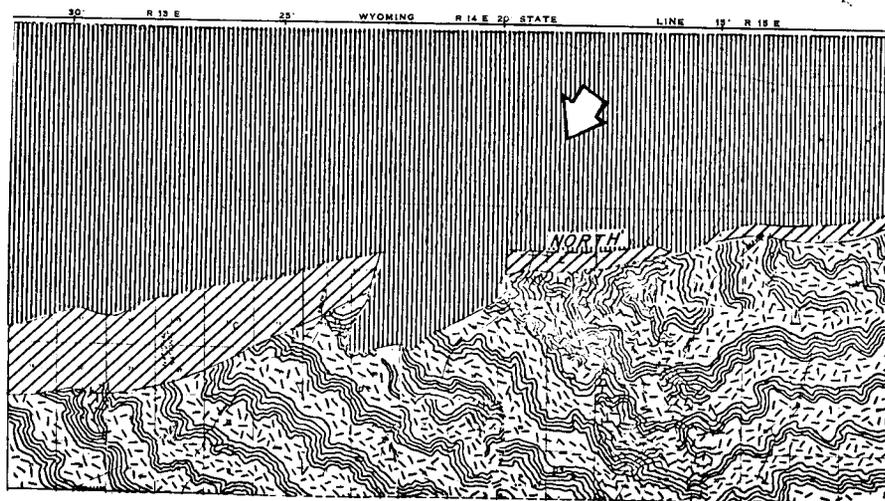
In the vicinity of Manila, where it was first recognized, the Henrys Fork fault has a displacement of about 4,000 feet; and 10 miles to the west its throw exceeds 12,000 feet.

The Henrys Fork fault splits into three branches on the east and terminates just west of the Green River. This fault shows no evidence of pre-Tertiary movement, unlike the Uinta fault. It came into being not earlier than middle Eocene time.

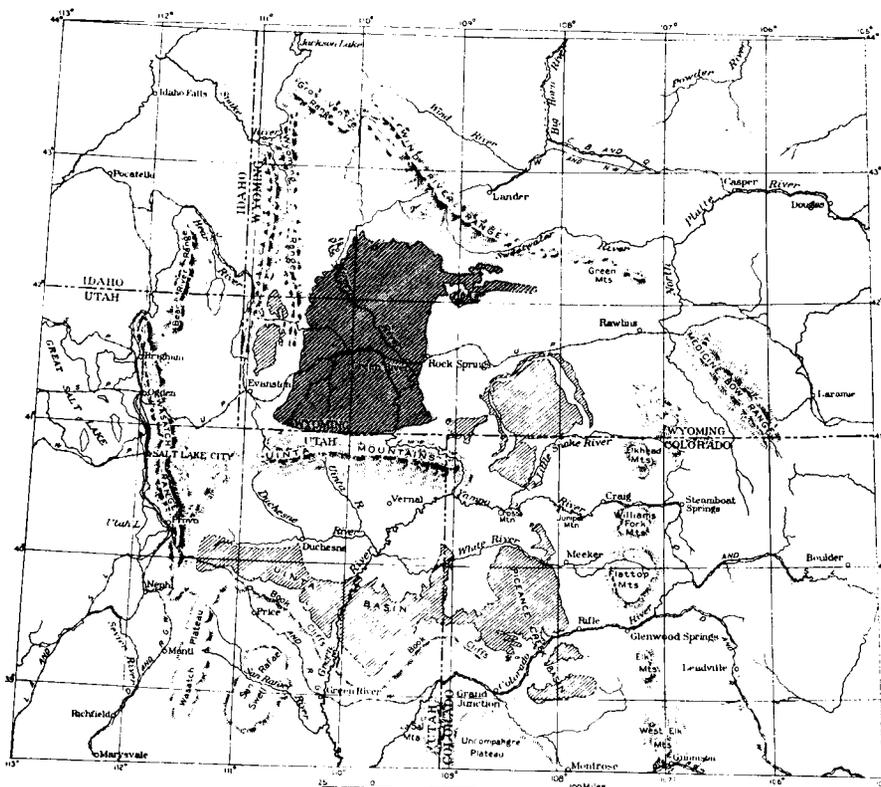
**Uinta-Sparks Fault Zone.** The longest and most continuous fault zone in the Uinta Mountains with the greatest amount of stratigraphic throw is the Uinta-Sparks fault zone.

From its western termination just southwest of the town of Manila, the Uinta fault zone trends sinuously east northeastward for about 45 miles as a continuous break. It increases both in throw and width to the 109th Meridian

(Continued on Page 22)



**TECTONIC MAP** of the North Flank fault area of the Uinta Mountains indicates by arrow location of the Phillips Petroleum Company's Bridger Lake Fork Unit 1-A, Sec. 25-3N-14E, Summit County, Utah on the north buried westward extension of the Henrys Fork fault zone. Tertiary cover and overlap is shown in vertical hachured lines. Only 2½ miles south of the discovery is the surface expression of the North Flank fault zone which exhibits a vertical component displacement of more than 15,000 feet at this point. Cambrian rocks outcrop on the south, upthrown side of the fault (cross-hachured lines), while only a short distance southward outcrops the contorted pre-Cambrian basement complex and core of the Uinta Mountain range (indicated by wavy line overlay). Figure 2.



**THE GREEN RIVER BASIN PROVINCE** of southwestern Wyoming and extreme northern Utah (screened overlay) is due for a major exploration, leasing and drilling revival as the result of a significant Cretaceous Dakota oil discovery on the Bridge Lake Fork Unit early in January, 1966 on the north flank of the Uinta Mountains. (courtesy U. S. G. S.) Figure 3.

## Henry's Fork

(Continued from Page 10)

where it passes beneath the Browns Park formation. It emerges as the Sparks fault just 10 miles to the east and remains continuous for an additional 20 miles. It extends farther eastward for more than 30 miles as a zone of discontinuous faults for a total length of more than 100 miles.

The maximum stratigraphic throw is more than 34,000 feet in the vicinity of the Clay Basin, where a gouge-and-breccia zone shows a width of from 800 to 3,000 feet; the disturbed zone is more than a mile in width, including areas of overturning in the walls.

**Uinta Mountains Deformation.** Extending over a long period of geologic time, the Uinta Mountains deformation history dates back to the earliest recorded deformation when the Red Creek quartzite was folded prior to deposition of the overlying Uinta Mountain group in an orogeny that surpassed both in intensity and magnitude all later disturbances.

Since the Uinta fault represents the largest and most continuous displacement in the Uinta Mountain range, its movement coincided probably with the culmination of the Laramide orogeny in the Uinta Mountains.

Its first and possibly greatest movement occurred following deposition of the Fort Union. The Uinta arch was deeply eroded by Fort Union time. The Mowry shale was exposed at the surface where it furnished shale chips to the conglomerates of the Fort Union formation, and more than 8,500 feet of overlying rocks were partly stripped away.

The PreCambrian core of the range was exposed by erosion by Wasatch time in the Clay Basin area and a flood of quartzitic debris was deposited in the Wasatch formation.

Features along the North Fork fault suggest a tectonic history similar to that of the Uinta fault.

Compressional aspects of the Laramide orogeny were succeeded in Miocene or Pliocene time by normal faulting, particularly within the eastern portion of the Uinta range.

Large displacements occurred on the Uinta and other faults on the north-eastern flank of the range and on the Yampa fault on the south flank creating the crestal part of the anticline, relative to both limbs, in a compound graben-type displacement.

Movement on the Uinta fault was thus a reversal of the earlier Laramide movement and thus reduced the net slip.

### Older Precambrian History

**Precambrian Geology.** Hansen<sup>2</sup> in an important petrographic study of the Red Creek quartzite (older PreCambrian)

analyzes that it was crenulated, injected with mafic magma, refolded and metamorphosed, injected with pegmatite, faulted, and deeply eroded before the overlying Uinta Mountain group (younger PreCambrian) was deposited.

He states that the Red Creek quartzite is made up of several rock types as follows:

1. Metaquartzite predominates the formation;
2. Mica schist and amphibolite are common;
3. Green, chrome-bearing quartzite is a characteristic minor constituent;
4. Minor associated rocks are: chloritic schist, carbonate rock, epidiorite, quartz-albite gneiss, and pegmatite.

**Mineral Assemblages.** Pelitic mineral assemblages in the Red Creek quartzite contain biotite, kyanite, garnet, staurolite, muscovite, and quartz. The significant point is that these minerals indicate dynamic metamorphism at great depths and high temperatures. Particularly kyanite, which is unknown in igneous thermal aureoles, is especially significant.

**Uinta Mountain Group.** The Uinta Mountain group of younger PreCambrian age was deposited on the deeply eroded Red Creek quartzite on a surface of low rolling relief.

By low local relief is meant a few hundred feet. However, nearby relief was perhaps mountainous. The basal conglomerate of the Uinta Mountain group and other high conglomerates contain boulders, cobbles and pebbles which were derived from the Red Creek quartzite.

**Basal Unconformity Analysis.** Proof of the major unconformity which occurs at the base of the Uinta Mountain group is substantiated by:

1. Truncation of the complex structure of the Red Creek quartzite by the basal beds of the Uinta Mountain group.
2. The existence of greater structural complexity in the underlying Red Creek quartzite than in the overlying Uinta Mountain group;
3. Occurrence of high-grade regional metamorphism in the underlying Red Creek and the absence of metamorphism in the overlying Uinta Mountain group; and
4. The occurrence of boulders, cobbles and pebbles in the Uinta Mountain group which were derived from the underlying Red Creek quartzite.

"You really ought to taper off, Sam," said the doctor, following an examination. "Which would you rather give up—wine or women?"  
"Well," said Sam, after a moment of thought, "it would depend on the vintage."

## Colorado

(Continued from Page 18)

### Texaco Continues Testing At Moffat County Discovery

Continued pump tests are under way at Texaco's 1 M. C. Hall Government, a Dakota oil discovery, NE NE 24-5N-91W, about four miles northeast of the Moffat field. Last pump test reported was 275 barrels of oil and 365 barrels of water per day. Additional Dakota zones may be perforated. Texaco has not perforated the zone which showed substantial oil on drill stem test before setting pipe, which was taken at 5843-70 ft, and recovered 4455 ft of free oil.

### Exeter & Worth Moving In Morgan County Wildcat Rig

An Exeter Drilling Company rig is being moved in on Exeter and Charles Worth's 2 Findeis, C NE NW 28-2N-55W, Morgan County, Colorado. Rig was moved from Exeter & Worth's 1 Crosby, C SE SW 23-1N-54W, in the North Rago area of Washington County. The latter has been drilled but no information is being released on it.

## Idaho

### Chevron Farmout in Idaho Continues to Drill Ahead

Latest reports have Edwin Allday of Houston drilling below 1695 ft at his 1 Government, NE SE 24-1N-44E, Bonneville County, Idaho. Wildcat is scheduled to 4500 ft to test the Paleozoics. It is on a farmout from Chevron Oil, with Roden Drilling as contractor. This location is about 24 miles southwest of Briggs, Idaho and eleven miles north and east of two failures drilled on the Big Elk Mountain prospect. Nearest production is some 70 miles southeast in Wyoming's Green River Basin.

### Trans-Pecos Schedules Symposium in March

Trans-Pecos Section, Society of Petroleum Engineers of AIME will conduct a one-day symposium on March 31 in Monahans, Texas, to discuss deep drilling and development of the Delaware Basin, where ultra-deep gas reservoirs are being exploited. Speakers will be industry representatives who are involved in the Delaware development, and they will cover geology, rig requirements, drilling programs, well control, tubular goods design, cementing, logging, perforating, and market potential—all aspects of this area where wells are making hole at 20,000 feet.

## Feature Awards Planned For I.P.E. in Tulsa

Special awards for oil and gas industry pioneers will be a feature of the International Petroleum Exposition in Tulsa May 12-21, carrying on a tradition started by John D. Rockefeller in 1927. The exposition's "Old Timers" committee has set divisions and requirements for nominations and urges you to fill out the blank printed below if you have an old timer you want to promote.

To be eligible, the candidate must have been an oil man for at least 40 years, must have made valuable contributions to the industry, and must be old in age. Six Grand Old Men will be chosen to represent production, refining, pipeline and transportation, natural gasoline, natural gas, and equipment and supplies. Enough information should be included with each entry to give the committee plenty of basis for comparison.

One award will be made to a "Pioneer of Pioneers", who must have similar qualifications to those of the Grand Old Man category, but must have been an oil man for 50 years.

### GRAND OLD MAN NOMINATION

International Petroleum Exposition  
Tulsa, Oklahoma  
May 12-21, 1966

Mr. William J. Sherry, Chairman  
IPE Old Timers Committee  
1801 First National Bank Building  
Tulsa, Oklahoma, 74104

I would like to nominate for IPE award checked below:

Name .....

Address .....

City..... State..... Zip.....

- |  |  |
|--|--|
| <input type="checkbox"/> Pioneer of Pioneers                           | <input type="checkbox"/> Grand Old Man of Natural Gasoline       |
| <input type="checkbox"/> Grand Old Man of Production                   | <input type="checkbox"/> Grand Old Man of Natural Gas            |
| <input type="checkbox"/> Grand Old Man of Pipe Line and Transportation | <input type="checkbox"/> Grand Old Man of Supplies and Equipment |
| <input type="checkbox"/> Grand Old Man of Refining                     |  |

(Please attach background information on your nominee)

(Please Print)

My Name is .....

Address .....

City..... State..... Zip.....

## Dates To Remember

### February

- 3- 4—American Chemical Society, First missile Atlantic regional meeting Sheraton Hotel, Philadelphia, Pa.
- 6- 9—American Institute of Chemical Engineers, fifty-eighth national meeting — Hilton Hotel, Dallas, Texas.
- 8—Petroleum Equipment Suppliers Assn., District Membership meeting, Gulf Coast Dist., Shamrock-Hilton, Houston, Texas.

## San Joaquin Valley AIME Offers Engineering Course

Refresher course in petroleum engineering is being sponsored by the San Joaquin Valley section of the AIME; it started February 9 and will run through June 1. This course is composed of lectures, reading assignments, and practical problems covering the subjects of mathematics, oil field accounting, reservoir rock and fluid distribution, physical properties of petroleum fluid, material balance, water drive reservoirs, gas reservoirs, dissolved-gas reservoirs, fluid flow, displacement of oil and gas, individual well analysis, secondary recovery, reservoir study, oil property evaluation, and computer techniques. Textbooks will be limited to those normally available in oil company libraries. For information contact J. W. Stephenson, Tidewater Oil Co., Route 1, Box 197X, Bakersfield, California.

9-11—Southwestern Federation of Geological Societies, annual meeting —Fort Worth, Texas.

9-11—Southwestern Legal Foundation, institute on oil and gas law and taxation, International Oil & Gas Educational Center, Dallas, Texas.

13-17—Society of Petroleum Engineers of AIME, annual meeting — New York City.

14-25—American Association of Oilwell Drilling Contractors, advanced drilling practices course for engineers, University of Oklahoma, Norman, Oklahoma.

14—American Association of Oilwell Drilling Contractors, School of Drilling Technology, Odessa College, Odessa, Texas.

15-16—American Petroleum Institute, Division of Marketing, Lubrication Committee meeting, Pontchartrain Hotel, Detroit, Michigan.

17-19—Association of Oilwell Servicing Contractors, annual meeting — Hotel Lassen, Wichita, Kansas.

21-22—American Association of Oilwell Drilling Contractors, annual rotary drilling conference—Sheraton-Dallas Hotel, Dallas, Texas.

22-24—Offshore Exploration Conference and Exhibit, Lafayette Hotel and Long Beach Arena—Long Beach, California.

22-25—National Association of Pipe Coating Applicators, second annual convention—Riviera Hotel, Las Vegas, Nevada.

23-25—Intermountain Oil Marketers Association, annual spring convention, Tropicana Hotel, Las Vegas, Nevada.

23—Petroleum Equipment Suppliers Association, Northern Mid-Continent District Meeting, Southern Hills Country Club, Tulsa, Okla.

27—American Institute of Mining Metallurgical & Petroleum Engineers, annual meeting, Americana Hotel, New York City.

27-March 3—Society of Petroleum Engineers, annual meeting, Americana Hotel, New York City.

28-March 4—American Association of Oilwell Drilling Contractors, Seminar for Drilling Contractor Management, Southern Methodist University, Dallas, Texas.

### March

2- 4—American Petroleum Institute, southern district meeting, Rice Hotel, Houston, Texas.

3—Petroleum Equipment Suppliers Association, Pacific District Meeting, Ambassador Hotel, Los Angeles, California.

3- 4—Ohio Oil & Gas Association, winter meeting, Sheraton Plaza Hotel, Columbus, Ohio.

9-11—Southwestern Legal Foundation, Petroleum economics and exploration institute, International Oil & Gas Educational Center, Dallas, Texas.

9—Petroleum Equipment Suppliers Association, Southern Mid-Continent District Meeting, Statler-Hilton Hotel, Dallas, Texas.

10-11—University of Southwestern Louisiana-Natural Gas Processors Association, Gulf Coast school of gas processing and transmission, USL campus, Lafayette, Louisiana.

10-11—Conference on Heat Transfer to Non-Newtonian Fluids, Oklahoma State University.

13-15—Mid-West Gas Association, annual convention, St. Paul Hotel, St. Paul, Minnesota.

14-25—Texas A. & M. University, advanced drilling engineering course, College Station, Texas.

16-18—American Petroleum Institute, southwestern district meeting, The Inn, Hobbs, New Mexico.

21-24—Plant Engineering Show (Plant Engineering Conference), Public Auditorium, Cleveland, Ohio.

22-23—American Chemical Society, national meeting, Pittsburgh, Pa.

24-25—New England Gas Association, annual meeting, Sheraton Boston Hotel, Boston, Massachusetts.

24-26—American Association of Petroleum Geologists, Pacific section meeting, Municipal Auditorium, Long Beach, California.

27-29—Oklahoma Oil Marketers Association, annual convention, Skirvin Hotel, Oklahoma City.

28-April 8—American Association of Oilwell Drilling Contractors, Gulf Coast School of Drilling Practices, University of Southwestern Louisiana, Lafayette, Louisiana.

30-April 1—American Petroleum Institute, Mid-Continent District meeting, Mayo Hotel, Tulsa, Oklahoma.

### April

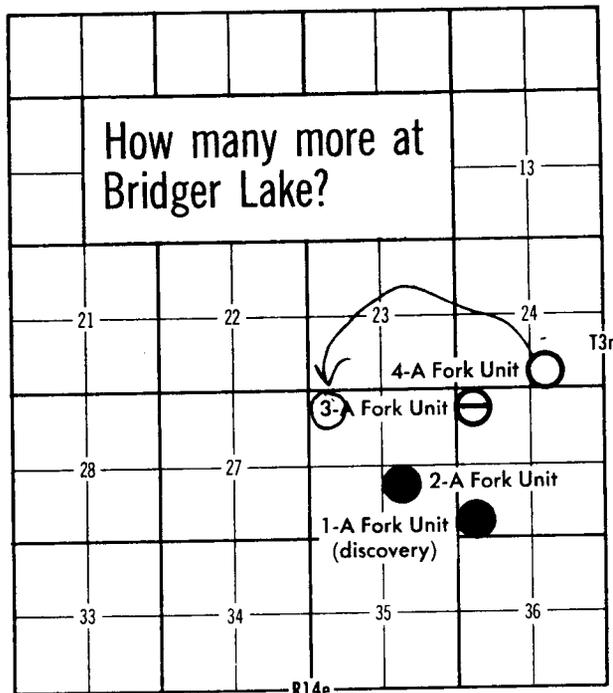
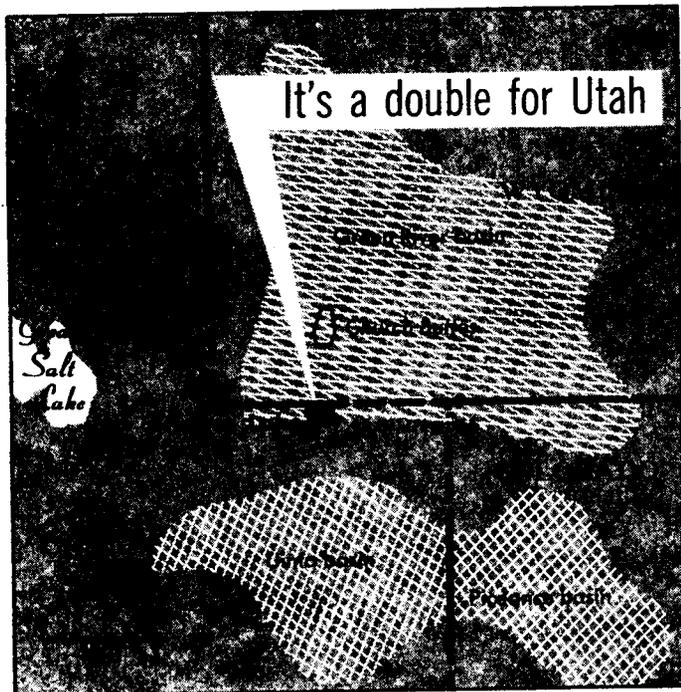
5- 6—University of Kansas, annual gas compressor institute, National Guard Armory, Liberal, Kansas.

7- 8—American Assn. of Petroleum Geologists, Pacific Section annual meeting, Biltmore Hotel, Los Angeles, Calif.

14-15—Third annual symposium of oil shale, Colorado School of Mines, Golden, Colorado.

16-20—Petroleum Equipment Suppliers Association, annual meeting, Boca Raton Hotel & Club, Boca Raton, Florida.

*Bridger Lake A-1*



## Bridger Lake really needed a winner

THERE'S no reason now why the southern brink of the Green River basin doesn't see some deep exploration.

The Utah discovery that fired new thinking into forgotten corners of the Rockies last winter has been confirmed. Phillips Petroleum Co. finalized the confirmation success at Bridger Lake field in Summit County flowing 673 b/d. Pay is the Dakota Cretaceous through perforations at 15,764-76 ft. The 2 Fork-A, NW SE 26-3n-14e, lies about 1½ mile northwest of the prolific discovery well. Phillips' discovery flowed 2,753 b/d on 48/64-in. choke, adding an entire new oil province to Utah—the southern Green River basin. Both wells are excellent Dakota producers and open the state's deepest producing area.

**A two-stater.** This apparently flush new Dakota oil sits on the very edge of the south end of Wyoming's Green River basin.

Location is just north of the overthrust zone which separates the Uinta Mountains from the basin proper. There has been very little drilling in this entire region . . . and certainly no deep wells. Nearest

**John C. McCaslin**  
Exploration Editor

Dakota production is 28 miles north-northeast at famous Church Buttes field. Closest Utah oil lies 40 miles southeast in Uintah County's Uinta basin. Clay Basin gas field, Daggett County, lies 55 miles due east.

So Phillips has a winner in an area that really needed a winner. It would be difficult to find a wildcat area any more remote than Bridger Lake. The new field lies far from population centers, main roads, and drilling prospects. But the field's importance as a major strike certainly eclipses its isolation.

The southern part of the Green River basin in both northern Utah and southern Wyoming has long been quiet as a place to look for oil. Surely there will be some wildcats planned soon on the Wyoming side. The first well to drill to extreme depths in the Rockies in many a year is under way at Church Buttes now, perhaps inspired by Bridger Lake.

Mountain Fuel Supply Co. and Union Pacific Railroad Co. 19 Unit will go to 20,500 ft. This important mountain wildcat will peer at all the

formations down to and including the Cambrian. Drilling is under way at the Uinta County wildcat in SE NE 8-16n-112w, Wyoming. But now there is a need for some wildcatting in Uinta County's southern extremes and on to the east in Sweetwater County's lower tier of townships.

But until the expected play takes shape, Phillips is busy at Bridger Lake. The third try for oil is the 3-A Bridger Lake Fork unit in NW NW 25-3n-14e. Fish problems have slowed this one down for awhile. Location is also ready to drill 4 Fork-A in SW SE 24-3n-14e. This is a 16,000-ft Dakota test.

**Skipped by.** Bridger Lake's success should change a few people's ideas about deep and complex Rocky Mountain crannies.

This Summit County prize is the second significant and major Rocky Mountain discovery of late to be tapped in an area that no one paid much mind to. Reno in Johnson County, Wyo., the best strike in years, and now Bridger Lake—these successes will be repeated somewhere else in the mountain states soon.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**Utah 013145**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

7. UNIT AGREEMENT NAME  
**Bridger Lake Unit**

8. FARM OR LEASE NAME  
**Fork "A"**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 25 T3N R14E**

12. COUNTY OR PARISH  
**Summit**

13. STATE  
**Utah**

1.  OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
**Phillips Petroleum Company**

3. ADDRESS OF OPERATOR  
**P. O. Box 2331 Caspar, Wyoming**

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

**1252' EWL & 1932' NSL**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**RKB 8926'**

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input checked="" type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

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

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

**PTD 15,632'. Present average flowing production 830 BOPD and 145 BHPD.**

**It is proposed to fracture treat well with 12,000 gallons crude, 120 gallons FE-1A, 60 gallons Hyflo, 40 gallons FR-3, 250# moth balls, and also 200# 20-40 beads and 300# 12-20 beads (if sufficient pumping rate obtained).**

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

SIGNED

(This space for Federal or State office use)

TITLE

**District Superintendent**

DATE

**December 15, 1967**

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 013145

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Bridger Lake Unit

8. FARM OR LEASE NAME

Fork "A"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Bridger Lake

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 25 13N R14E

12. COUNTY OR PARISH

Summit

13. STATE

Utah

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Box 2331, Casper, Wyoming

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

1252' EWL and 1932' NSL

14. PERMIT NO.

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

8926 RKB

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

PTD 15,632'

On December 18, 1967, Halliburton fraced down 3-1/2" tubing with 12,400 gallons crude, 80 gallons FE 1A, 40 gallons Hyflo, 250# TLC15 moth balls, 200# 20-40 beads and 300# 12-20 beads. Average injection rate was 4 BPM at 6500 psi pressure. After load oil recovered well is flowing an average of 1000 BOPD and 162 B:PD on a 48/64" choke.

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

SIGNED

(This space for Federal or State office use)

TITLE

District Superintendent

DATE

1-9-68

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

BEFORE THE OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF UTAH

IN THE MATTER OF THE APPLICATION )  
OF PHILLIPS PETROLEUM COMPANY FOR )  
AN ORDER PERMITTING UNDERGROUND )  
DISPOSAL OF WATER FROM THE )  
BRIDGER LAKE UNIT, SUMMIT COUNTY, )  
UTAH. )

APPLICATION

Comes now Phillips Petroleum Company, the applicant herein, and makes application for underground disposal of water alleging as follows:

1. Applicant is the Operator of the Bridger Lake Unit located in part of Summit County, Utah, said Briger Lake Unit having heretofore been approved by the U. S. Geological Survey.
2. Attached hereto as Exhibit "A" is a plat showing the location of the disposal well and all other wells, including abandoned and drilling wells and dry holes.
3. There are no lessees of record other than the applicant herein within one-half (1/2) mile of the proposed disposal well.
4. Applicant proposes to dispose of said water in the Dakota Sand between the depths of fifteen thousand six hundred seventy (15,670) feet and fifteen thousand seven hundred ten (15,710) feet. The Dakota Sand is described as a very fine to fine grain sandstone.
5. Attached hereto as Exhibit "B" is the log of the disposal well.
6. It is proposed that said water be disposed of through the Fork "A" No. 5 . The casing in the disposal

well is as shown on the attached Injection Well Schematic, marked Exhibit "C". The three and one-half (3-1/2) inch tubing and seven (7) inch casing have been pressure tested by gas up to six thousand (6,000) psi with no leakage. Applicant believes that such casing program will protect from damage all oil, gas and fresh water sources.

7. The source of water to be injected is water produced from the Dakota formation with oil from wells now producing in the Bridger Lake Unit.

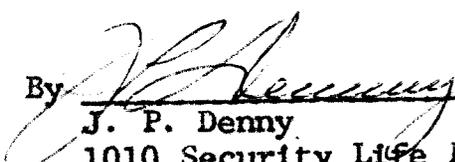
8. No more than 80,000 barrels of water will be injected at rates varying from three hundred (300) to two thousand (2,000) BPD at 500-2000 psi.

9. Applicant has not notified any other parties of this application, since there are no owners other than the applicant within one-half (1/2) mile of the proposed disposal well.

WHEREFORE, Phillips Petroleum Company, applicant herein, prays that this application be given administrative approval as provided in the regulations promulgated by the Commission; that based on the evidence within and accompanying this application the Commission enter its order permitting underground disposal of water now or hereafter to be produced with oil from the Bridger Lake Unit under the terms and conditions by the Commission to adequately prevent waste and protect the property rights of other owners.

Respectfully submitted,

PHILLIPS PETROLEUM COMPANY *6/1/64*

By 

J. P. Denny

1010 Security Life Building  
Denver, Colorado 80202

Western Region Production Manager



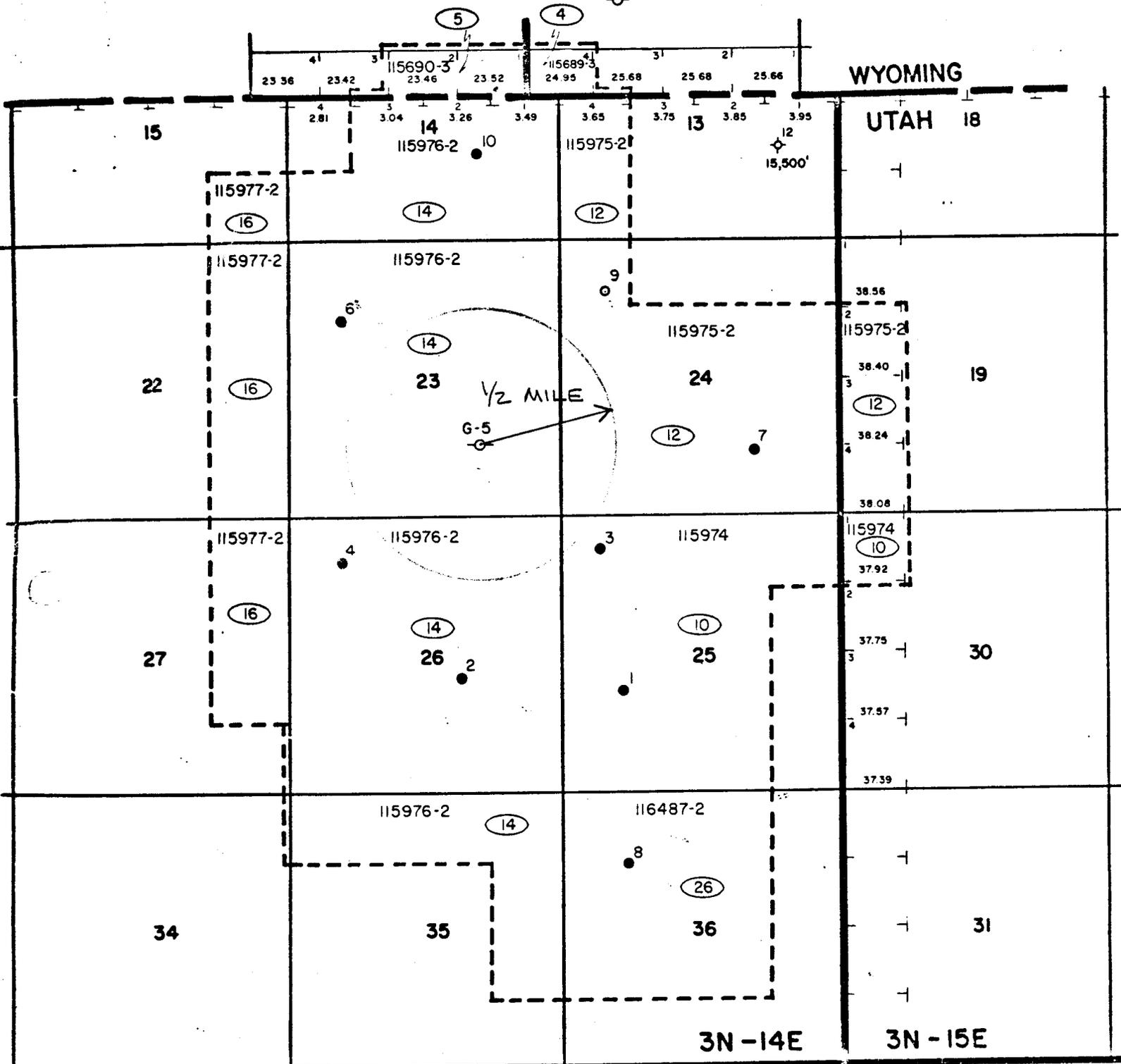
# EXHIBIT A

12N - 115W

12N - 114W

Casper

D-11  
○



G.F. 14055

Eff. 5-19-65

3,838.01 Ac. (Contracted 2-2-71)

PPCo. 100%



"FORK "A"

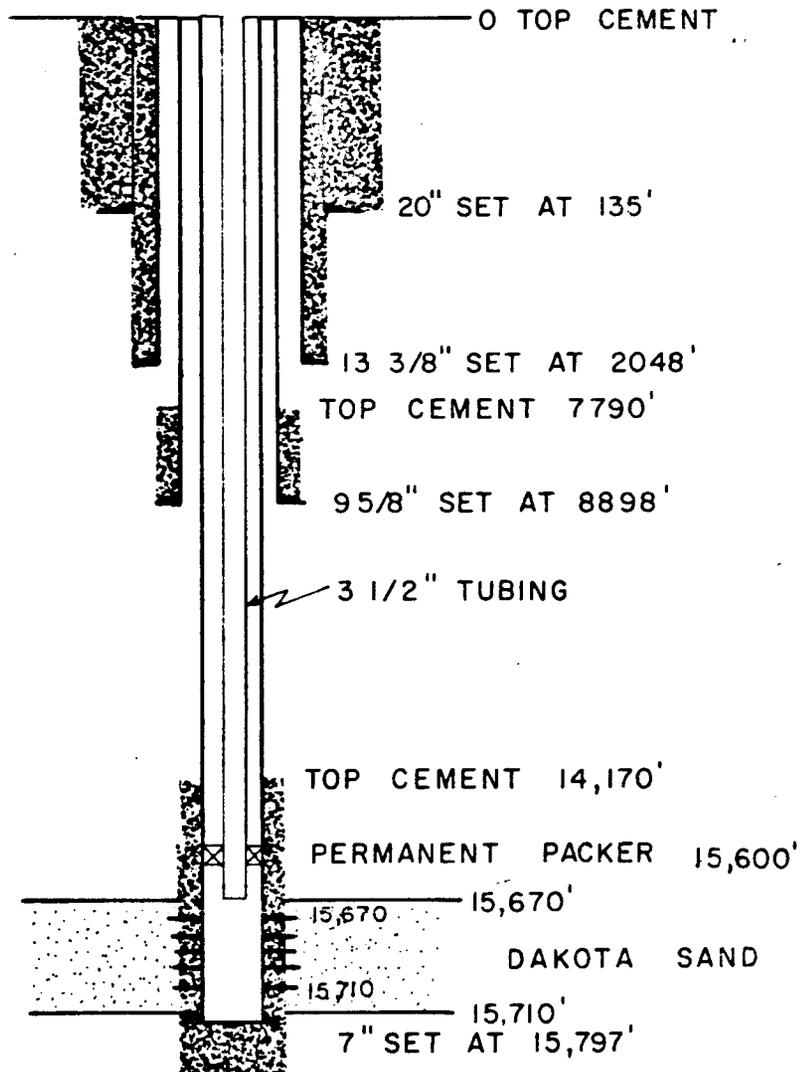
BRIDGER LAKE UNIT

SUMMIT CO., UTAH  
UINTA CO., WYOMING

Scale: 2" = 1 Mile

5-3-71

**EXHIBIT C**  
**INJECTION WELL SCHEMATIC**  
**FORK A 5**  
**BRIDGER LAKE UNIT**  
**SUMMIT COUNTY, UTAH**



- 13 3/8" CSG. 54.5 - 72 #
- 9 5/8" CSG 40-36 #
- 7 " CSG 29-26-23 #



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R358.5.

LAND OFFICE Utah  
LEASE NUMBER Q131A5  
UNIT Bridger Lake

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

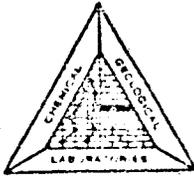
State Utah County Summit Field Bridger Lake  
The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1977, Fork A Lease  
Agent's address Box 2920 Company Phillips Petroleum Company  
Casper, Wyoming Signed [Signature]  
Phone 237-3791 Agent's title Area Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SW Sec. 25	3N	14E	1	0	0	41	0	0	0	SI 2/15/75-High GOR.
NW SE Sec. 26	3N	14E	2	31	13,645	41	141,685		419	Natural Flow
NW NW Sec. 25	3N	14E	3	0	0	41	0	0	0	Converted to Temporary Gas injection 9/3/72.
NW NW Sec. 26	3N	14E	4	0	0	41	0	0	0	SI 9/1/76-Equip. Trouble
NW NW Sec. 23	3N	14E	6	0	0	41	0	0	0	SI 9/1/76-Equip. Trouble
SW SE Sec. 24	3N	14E	7	29	2,473	41	6,185		524	Hydraulic Pump
SW NW Sec. 36	3N	14E	8	31	10,233	41	113,348		751	Natural Flow
NW SE Sec. 14	3N	14E	10	24	1,370	41	1,814		3667	Hydraulic Pump
<b>TOTALS</b>					27,721		263,032		5,361	*Gas Estimate Based on Periodic Tests. Processed thru Plant.
<b>GAS INJECTION</b>										
NW NW Sec. 25	3N	14E	3	0	0	41	0	0	0	SI 11/20/73.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



# CHEM LAB

## WATER ANALYSIS EXCHANGE REPORT

MEMBER Phillips Petroleum Company LAB NO. 23686 REPORT NO. 10-1667  
 OPERATOR Phillips Petroleum Company LOCATION NW SW 25-3N-14E  
 WELL NO. Fork A-1 FORMATION Dakota  
 FIELD Bridger Lake INTERVAL 15555 - 15586 (Perfs)  
 COUNTY Summit SAMPLE FROM Wellhead (9-30-67)  
 STATE Utah DATE October 6, 1967

REMARKS & CONCLUSIONS: Slightly cloudy water and filtrate.  
Foamy water.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	2,937	127.75	Sulfate	235	4.89
Potassium	5	0.13	Chloride	3,750	105.75
Lithium	-	-	Carbonate	-	-
Calcium	36	1.80	Bicarbonate	1,196	19.61
Magnesium	7	0.57	Hydroxide	-	-
Iron	absent	-	Hydrogen sulfide	absent	-
Total Cations			Total Anions		
130.25			130.25		

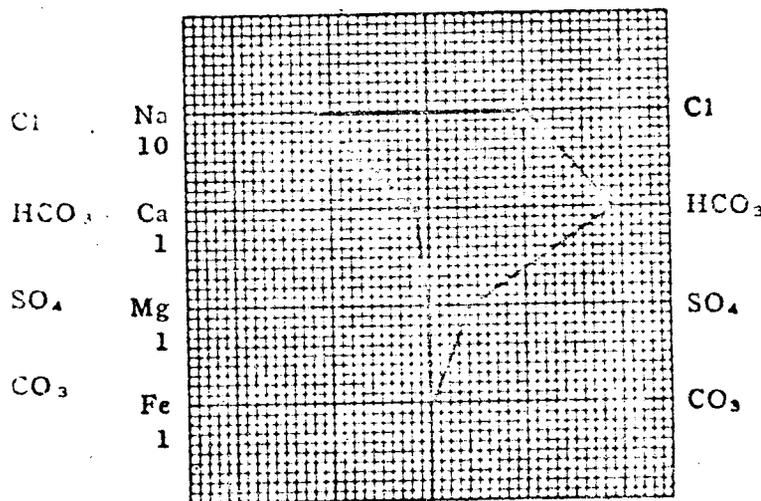
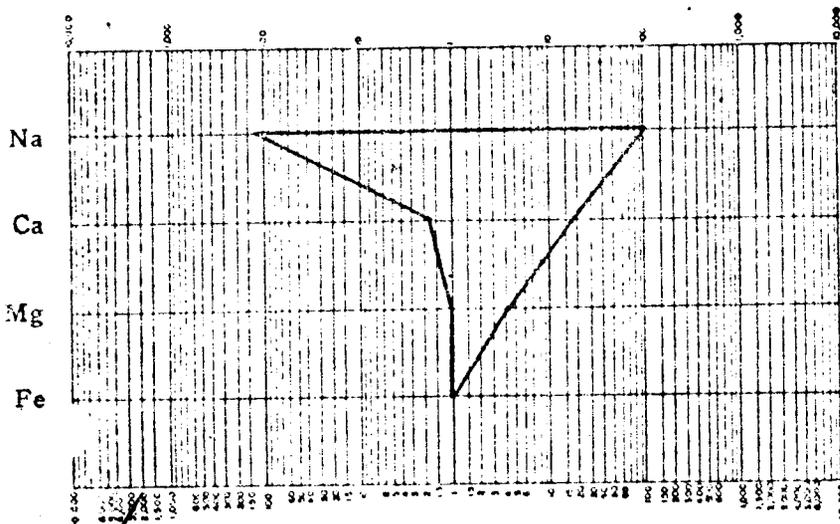
Total dissolved solids, mg/l 7,559 Specific resistance @ 68° F.:  
 NaCl equivalent, mg/l 6,741 Observed 0.86 ohm-meters  
 Observed pH 8.0 Calculated 1.00 ohm-meters

### WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter. Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

# Oil Adds New Story to Uintas

By Jack Fenton  
Tribune Staff Writer

MOUNTAINVIEW, WYO.—The North Slope of the Uintas abounded with wild-life when Jim Bridger came here more than a century ago.

Deer, beaver and other animals—wild and domestic—still are here. But today they share the rugged country along the Utah-Wyoming line with exploration crews and drilling teams searching for oil formed eons before the era of the bearded trapper.



Mr. Fenton

So far, three wells have been completed on Wasatch National Forest land just inside Utah which currently are producing 2,000 barrels of crude a day. Two others are nearing completion, two are being drilled, and Utah's Division of Oil and Gas Conservation has been notified that an eighth location has been staked.

First to drill in the rugged Bridger Lake area of Summit County about 20 miles south of Mountainview was Phillips Petroleum Co., which owns the three producing wells, the two nearing completion and one of the two being drilled. Shell Oil Co. also is drilling a well nearby and has another location staked.

### Seismograph Crews

Two companies — Mobil and Forest Oil Corp.—have seismograph crews combing the area, according to George W. Tourtillott, Wasatch National Forest supervisor.

The wells, which produce from the Dakota Sandstone, average 15,500 feet, and cost between \$600,000 and \$750,000, "if there's no trouble," an industry spokesman said.

"This is a tribute to the geology we're working in. The first 7,500 feet of those wells is glacial drift — a composite of boulders and gravel," he declared.

"At any time, a piece of the overhead rock can fall and jam the tools."

### Completed in 1966

Completed in early 1966, Bridge Lake Fork A-1 was Phillips' first in the area. Its second well was finished some six months later, and the No. 3 well going on stream about six months ago, a Phillips representative said.

By Aug. 1, cumulative production of the three wells had passed the 660,000-barrel mark—347,278 barrels from No. 1; 266,359 from No. 2, and 46,978 from No. 3, according to a company statement.

Phillips' Bridger Lake Forks A-5 and A-6 currently are being completed at 15,825 and 15,784 feet, respectively. Its A-6 is drilling at 4,120 feet.

Shell's Henry's Fork Government well

is nearing the 12,000-foot mark of the proposed 16,000-foot depth.

### Producing Wells

Even with three producing wells to study, geologists are unable to agree about the extent or size of the field, according to the industry spokesman.

At this stage, he noted, it is too early to state positively that the Bridger Lake Field is "good" or "bad."

According to industry statistics, only one well in 40 is labeled a "producing well," the spokesman continued.

"And only one out of nine producing wells pays for itself. The odds are fantastic," he added.

But, if geologists can't agree on the size and extent of the formation, they can agree they have never seen oil wells in such a location.

The rigs seem to spring from the forest where they tower even higher than the trees that surround them. Lakes are a deep-blue and the host of beaver ponds placid.

To retain this atmosphere, Phillips currently pumps sludge about 6½ miles through a pipeline to a disposal pit where it dries.

### No Harm to Lakes

This pit, Mr. Tourtillott and the oil company spokesman agreed, is situated where seepage will not contaminate lakes or streams that abound with fish.

Thousands of dollars have been spent by the oil companies for the construction of integrated roads used by the Forest Service and the firms, Mr. Tourtillott noted.

In addition to recreation and oil exploration, multiple-use practices on the national forest includes grazing and lumbering, he said.

### Drafting New Plans

Phillips currently is drafting plans for a 10-mile pipeline that would carry a maximum of 20,000 barrels of oil daily from the field to a point where it could be more easily picked up and trucked to the firm's Woods Cross refinery.



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

✓  
 4

MEMBER Phillips Petroleum Co.  
 OPERATOR Phillips Petroleum Co.  
 WELL NO. 1-A Bridger Lake Fork Unit  
 FIELD Bridger Lake  
 COUNTY Summit  
 STATE Utah

LAB NO. 22218 REPORT NO. 5-1766  
 LOCATION NW SW 25-3N-14E  
 FORMATION Dakota  
 INTERVAL Perfs: 15504-517; 15555-586  
 SAMPLE FROM Production  
 DATE May 10, 1966

REMARKS & CONCLUSIONS: Clear water,

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	3,300	143.54	Sulfate	1,320	27.46
Potassium	4	0.10	Chloride	3,360	94.75
Lithium	1	0.14	Carbonate	-	-
Calcium	29	1.45	Bicarbonate	1,464	24.01
Magnesium	12	0.99	Hydroxide	-	-
Iron	absent	-	Hydrogen sulfide	absent	-
Total Cations			Total Anions		
		146.22			146.22

Total dissolved solids, mg/l 8,747  
 NaCl equivalent, mg/l 7,772  
 Observed pH 8.1

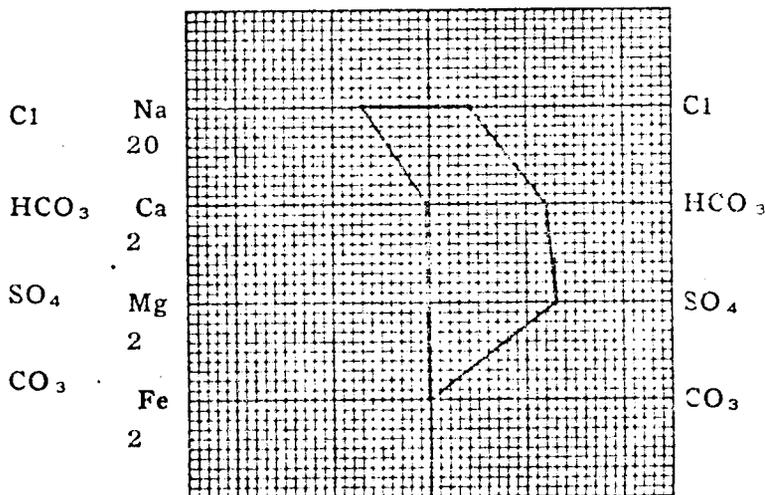
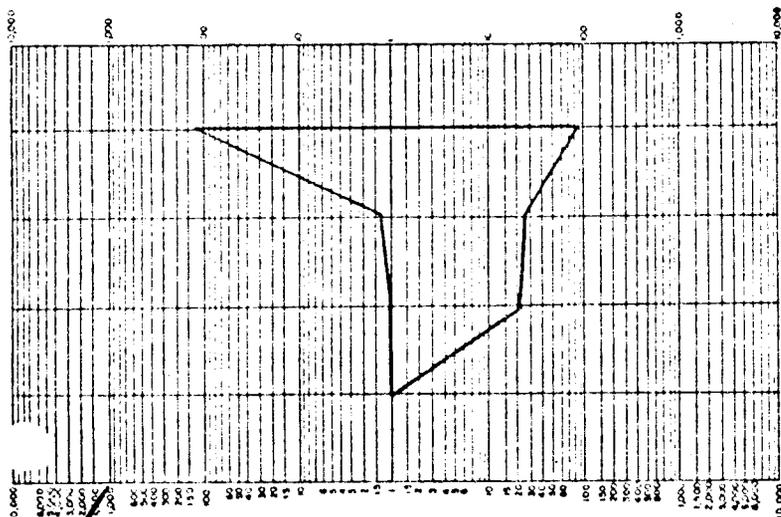
Specific resistance @ 68° F.:  
 Observed 0.90 ohm-meters  
 Calculated 0.88 ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter      Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well  gas well  other

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
BOX 2920, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:                      SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF                      

FRACTURE TREAT                                      

SHOOT OR ACIDIZE                                      

REPAIR WELL    

PULL OR ALTER CASING                                  

MULTIPLE COMPLETE                                      

CHANGE ZONES                                      

ABANDON\*    

(other) Convert to Gas Injection

5. LEASE  
Utah 013145

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Bridger Lake

8. FARM OR LEASE NAME  
Fork "A"

9. WELL NO.  
#1

10. FIELD OR WILDCAT NAME  
Bridger Lake

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
25-3N-14E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

14. API NO.  
43-043-5069

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
8910 Gd., 8926 KB

OFFICE

COPIES

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

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

1. Well is currently a shut-in Dakota producer.
2. It is planned to convert from A/C producer to a C zone injector, as follows:
  - a. Kill well with work-over fluid and pull tubing.
  - b. Squeeze zone 15,555 to 15,586 through cement retainer.
  - c. Replace tubing and well-head and complete as gas injector from 15,504 to 15,517.
3. Steel pits will be used and no earth disturbance is anticipated.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 10-17-80  
BY: M. J. Minder

Subsurface Safety Valve: Manu. and Type Otis W. L. Retrievable to be Set @ 400 Ft.

18. I hereby certify that the foregoing is true and correct  
SIGNED D. Fisher TITLE Operations Supt. DATE September 22, 1980

(This space for Federal or State office use)

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

- O&2 - USGS, SLC, Utah  
 2 - Utah O&GCC - SLC, Utah  
 1 - T. J. Jobin, Denver  
 1 - File

\*See Instructions on Reverse Side

(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Expires August 31, 1985  
(Other instructions on reverse side)

Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Gas Injection Well</u>		7. UNIT AGREEMENT NAME Bridger Lake	
2. NAME OF OPERATOR Phillips Petroleum Company		8. FARM OR LEASE NAME Fork A	
3. ADDRESS OF OPERATOR P.O. Box 2920, Casper, Wyoming 82602		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1252' FWL, 1932' FSL		10. FIELD AND POOL, OR WILDCAT Bridger Lake	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 8926' RKB	
		12. COUNTY OR PARISH 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"/>	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 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.)\*

Request temporarily abandonment of well - Well is currently shut-in after attempts to convert well to gas injector were aborted due to down hole problems.

Future status pending updated reservoir study.

*Well records 3/25/86  
We will have to call this a "shut-in" well until they can show existence of any temporary plugs.*

**RECEIVED**  
MAR 21 1986

DIVISION OF  
OIL, GAS & MINING

*-JRB*

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

SIGNED D. C. Gill TITLE Area Manager DATE \_\_\_\_\_

(This space for Federal or State office use)

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

3-BLM, Salt Lake City  
2-Utah Div. of Oil, Gas & Mining  
1-P. J. Adamson  
1-File

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

8. LEASE DESIGNATION AND SERIAL NO.  
Utah 013145

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A ~~021834~~

1. OIL WELL  GAS WELL  OTHER

7. UNIT AGREEMENT NAME  
Bridger Lake

2. NAME OF OPERATOR  
Phillips Petroleum Company

8. FARM OR LEASE NAME  
Fork A

3. ADDRESS OF OPERATOR  
P. O. Box 2920 Casper, WY 82602

9. WELL NO.  
1

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

10. FIELD AND POOL, OR WILDCAT

1252' FWL and 1932' FSL

Bridger Lake

11. SEC., T., R., N., OR BLK. AND SURVEY OR ABMA  
Sec. 25-T3N-R14E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, OR, etc.)  
8926 ft. RKB

12. COUNTY OR PARISH  
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"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

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

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

It is proposed to re-complete the existing Dakoa interval at 15504-15517 ft and perforate and complete the Dakota interval at 15448-15466 ft. Should the new interval be productive, the Zones will be commingled and produced as they are all in the Dakota Formation.

In the event the new interval must be squeeze cemented, a small temporary pit will be constructed on the location site (approx. size = 12 ft x 20 ft) used only for cementing purposes. The pit will be emptied and backfilled upon completion of work. No hydrocarbons will be put to the pit.

All other work will utilize steel tanks.

3- BLM Salt Lake City, Utah  
2- Utah Div. O&G and Mining  
1-File



DIVISION OF OIL, GAS & MINING

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

SIGNED D. C. Gill TITLE Area Manager DATE February 6, 1987

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ ACCEPTED BY THE STATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ OF UTAH DIVISION OF OIL, GAS, AND MINING

Federal approval of this action is required before commencing operations.

\*See Instructions on Reverse Side DATE: 2-17-87

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RECORDED**  
MAR 03 1988

**PRODUCING ENTITY ACTION**

DIVISION OF  
OIL, GAS & MINING

Operator Name Phillips Petroleum  
Address 152 North Durbin (2nd Floor)  
City Casper State Wyoming Zip 82601  
Utah Account No. N0772  
Authorized Signature Meredith K. Wideman  
Effective Date January, 1988 Telephone (307) 237-3791

**ACTION CODE**

- A Establish new entity for new well(s).
- B Add new well(s) to existing entity.
- C Delete well(s) from existing entity.
- D Establish new entity for well(s) being deleted from existing entity.
- E Change well(s) from one entity to another existing entity.
- F Other. (Specify using attachments if necessary.)

**BRACKET WELLS TO BE GROUPED TOGETHER.**

(Use black ink or typewriter ribbon.)

Action Code	Current Entity No.	New Entity No.	API No.	Well Name	Well Location					Producing Formation
					Sec.	T	R	Q/Q	County	
B	6285 XXXXXX	06285	43-043-15763	Fork "A" Well #1	25	3N	14E	NWNW	Summit	DKTA

Explanation of action:

This well, originally completed 1/29/66, was shut-in 2/15/75. It was recently recompleted in the D Zone of the Dakota formation and started up 1/11/88.

<u>in</u>	<u>Dakota</u>	<u>P.A.</u>								
-----------	---------------	-------------	--	--	--	--	--	--	--	--

Explanation of action: No Entity change is required. Well is already set up on 06285. Well is set up in the data base as a G/W - ~~data~~ Data base needs to be updated and status changed. DTS 3-11-88

Explanation of action: CC: LCR

--	--	--	--	--	--	--	--	--	--	--

Explanation of action: Sent new Entity Action Forms to Phillips - 3-11-88  
DTS

Center, Suite 350, Salt Lake City, Ut

# MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

**PHILLIPS PETROLEUM COMPANY**  
152 N. Durbin Street  
2nd Floor  
Casper, Wyoming 82601

**RECEIVED**  
MAR 03 1988

DIVISION OF  
OIL, GAS & MINING

Utah Account No. N0772

Report Period (Month/Year) 1 / 88

Amended Report

Well Name API Number	Entity	Location	Producing Zone	Days Oper	Production Volume		
					Oil (BBL)	Gas (MSCF)	Water (BBL)
A-#2 4304320009	06285	03N 14E 26	DKTA	31	7354	170,727	1397
A-#4 4304320143	06285	03N 14E 26	DKTA	SI	0	0	0
A-#6 4304320196	06285	03N 14E 23	DKTA	15	7805	7918	0
A-#7 4304320303	06285	03N 14E 24	DKTA	26	2570	4943	196
A-STATE #8 4304320305	06285	03N 14E 36	DKTA	SI	0	0	0
A-#10 4304330001	06285	03N 14E 14	DKTA	SI	0	0	0
A-#13 4304330146	06285	03N 14E 35	DKTA	24	8473	116,515	1428
A-#14 4304330147	06285	03N 14E 25	DKTA	SI	0	0	0
A-#1 43-043-1571a3	06285	3N 14E 25	DKTA	8	0	0	74
<b>TOTAL</b>					<b>26,202</b>	<b>200,103</b>	<b>3095</b>

Comments (attach separate sheet if necessary)

Well A-#1 was recompleted in the D zone of the Dakota  
Formation on 1/1/88.

I have reviewed this report and certify the information to be accurate and complete.

Date February 29, 1988

Meredith K. Widiker  
Authorized signature

Telephone (307) 237-3791

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

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

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

3. LEASE DESIGNATION AND SERIAL NO.  
Utah 013145

12

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

RECEIVED  
SEP 21 1988

1.  OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
152 N. Durbin, 2nd Floor, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1252' FWL & 1932' FSL, NW SW

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

7. UNIT AGREEMENT NAME  
Bridger Lake

8. FARM OR LEASE NAME  
Fork A

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Bridger Lake

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 25-T3N-R14E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

14. PERMIT NO.  
API #43-043-15763

15. ELEVATIONS (Show whether DF, ST, OR, etc.)  
8926' RKB

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

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

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

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

MI & RU workover unit 10/12/87. COOH w/pkr, clean out to PBDT at 15531'. Run GR-CCL, CBL-VDL logs. Clean out fill at btm of hole. Tbg parted. Fish tbg. Pull pkr and set at 15237' w/tailpipe at 15266'. Pmpd 500 gal 15% HCL w/additives. ISIP 5800 psi, 5 min 5600 psi, 10 min 3900 psi. Squeezed C-Zone (15504-15516') w/100 sx prem L-200 cmt containing additives. Drld out cmt to 15472' (New PBDT). Perf D-Zone of Dakota Formation, 4 HPF, 15432-15470'. Acidized D-zone by pumping in 2 bbls acid into perfs. Had communication, rev out acid. Tbg parted, fished tbg. Acidized D-Zone w/38 bbls HCL acid containing additives and 150 7/8" RCN balls and 114 bbls HF acid containing additives w/150 7/8" RCN balls. Init pump in press 5600 psi at 3.1 BPM, final pump in press 5430 psi at 3.5 BPM. ISIP 4450, 5 min 4290, 10 min 4160, 15 min 4060. Set permanent packer at 15320'. Swbd back load. Some fill across perfs. Cleaned out to PBDT, 15472'. COOH w/workstring. GIH w/gas lift mandrels and tbg. RD & MO Workover Unit on 12/15/87, with final well test of 10 BOPD, 50 BWPD, 150 MCFPD (Dakota D-Zone only).

- 3 - BLM, Salt Lake City, Utah
- 2 - Utah Div. O&G and Mining
- 1 - File

18. I hereby certify that the foregoing is true and correct  
SIGNED S. J. Reynolds TITLE District Superintendent DATE September 16, 1988

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**013145**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
**Bridger Lake Unit  
#8910086770**

8. Well Name and No.  
**Fork "A" No. 1**

9. API Well No.  
**43-043-15763**

10. Field and Pool, or Exploratory Area  
**Bridger Lake - Dakota**

11. County or Parish, State  
**Summit County, Utah**

*SUBMIT IN TRIPLICATE*      *SEP 04 1992*

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Phillips Petroleum Company**      **ATTN: Jacob F. Mitchell**

3. Address and Telephone No.  
**P. O. Box 1967 Houston, TX 77251-1967      (713) 669-3509**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1252' FWL & 1932' FSL, NW SW Sec 25 - T3N - R14E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)\*

Plug and abandon well as follows:

Pull tubing from packer at 15278'. Mix and pump 20 sx class G cement with 35% silica flour and 0.3% retarder @ 15.9 ppg (water 6.6 gals/sk, yield 1.55 cu ft/sk) to spot above the packer (on 7/31/92, pressured to 4200 psi at surface and formation would not take fluid). Test integrity of plug by tagging or pressure testing to minimum of 1000 psi for 15 minutes, with no more than a 10% drop in pressure during 15 minute period. Displace hole with 10.4 ppg mud. Perforate 5.5" casing from 4650'-4652' with 2 shots per foot. Set cement retainer at 4550'. Mix and pump 77 sx class G cement @ 15.8 ppg (water 5 gal/sk, yield 1.15 cu ft/sk). Squeeze 55 sx in annulus, 11 sx below retainer and spot 11 sx above retainer. Perforate 5.5" casing from 2121'-2123' at 2 shots per foot. Set cement retainer at 2021'. Mix and pump 82 sx class G cement @ 15.8 ppg (water 5.0 gals/sk, yield 1.15 cu ft/sk). Squeeze 61 sx into 13.375" x 5.5" annulus, 11 sx below retainer and spot 10 sx above retainer. Perforate 5.5" casing from 100'-102' with 2 shots per foot. Mix and pump 50 sx class G cement @ 15.8 ppg. Circulate 32 sx in 13.375"x5.5" annulus and 11 sx in 5.5" casing, filling both to surface. Cut casings 3-4 feet below ground level. Install abandoned well marker and restore location. See attached wellbore schematics for current and proposed conditions. Work is desired to be done in conjunction with the plugging of Fork A #14 scheduled to begin September 1, 1992.

O + 2-BLM    1-Utah Oil, Gas & Mining    1-Well Files    1-K. K. Juenger

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

Signed Jacob Mitchell    Title Director, Regulatory/Compliance    Date 8/24/92

(This space for Federal or State office use)

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

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SPUDED 7/4/65

EXISTING COMPLETION

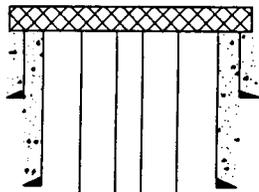
RECEIVED  
SEP 04 1992

GL: 8910.2'  
RKB: 8924.8'

SEP 04 1992

DIVISION OF  
OIL GAS & MINING

455 JTS - 5 1/2", 23#, N-80 CASING



20" @ 86', CMTD W/ 250 SX CMT  
W/ 2% CACL. 26" HOLE

13.375' 54.5#/FT @ 2021'  
W/1210 SXS W/10% DIACEL D, 3% CACL TO SURFACE  
17-1/2" HOLE.

2 3/8" 4.70#, N-80 & P-105 TBG STRING

15200' TOC, PETRO-LOG CBL 12/8/81

FORMATIONS (TOPS)

FT UNION (8292)	MOVRY (15023)
MESAVEERDE (10917)	MOVRY SAND (15282)
HILLIARD (12681)	DAKOTA (15314)
FRONTIER (14927)	MORRISON (15588)

20' SEALBORE EXTENSION  
CROSSOVER TO SEALBORE

BAKER DB PKR  
SET @ 15278'

10' TBG SUB 4.7#, N-80, EUE 8RD

XN NIPPLE 1.791" ID

10' PERF TBG SUB 4.7#, N-80, EUE, 8RD.

BALANCE ISOLATION TOOL

TBG JOINT EUE 8RD 2 3/8"

15363 - 73' DAKOTA 'F' ZONE

15413' CMT RETAINER, CMTD W/24' CMT, 15385' PBSD

TOP OF BAKER MODEL F PACKER 15,460'

'D-1' ZONE (15432 - 470') (PREV. 'D')

15432 - 470' 4 HPF, ACIDIZED W/ 38 BBLs HCL ACID  
CONT. 150 7/8" RCN BALLS AND 114 BBLs HF ACID CONT  
150 7/8" RCN BALLS 11/11/87.

'C' - ZONE (15504 - 517')

15504 - 516' 2 SPF W/ HYPERJET II (11/19/81)  
15510 - 516' 2 SPF W/ 3.375" GUN (11/18/81)  
15504 - 517' 2 SPF W/ 19 GRAM DYNA JET (1/1/66)  
15504 - 516' 2 SPF, W/ HYPER JET-II CHARGES BY ELECTRIC LOG (12/15/81)  
SQZD 'C' ZONE W/ 100 SX PREM L-200 CMT (10/25/87) - FORM. MAKING SAND

SQZD 150 SXS OF CLASS  
G CMT W/ ADDITIVES  
BETWEEN PACKER AND  
RETAINER

PBSD 15472'  
(9/16/88)

15531' BAKER CMT RETAINER (11/6/81). SQUEEZED W/ 75 SXS  
TO 5700 PSI, DOWELL, 11/8/81.

15552' JUNK IN HOLE INCLUDES: F-1 PACKER, 3' X 3' ASSEMBLY  
15' X 1.75" PKR PLUCKER ASSEMBLY W/ GRAPPLE (11/6/81)  
'A-2' ZONE (15555 - 586')

15555 - 586' 2 SPF W/ 19 GRAM DYNAJET (1/1/66)  
SQZD W/ 75 SX CMT (11/5/81)

15629' BAKER MOD N (1-14-66) DRILLED AND PUSHED TO THIS DEPTH  
15632' JOHNSTON (12/30/65) RETRIEVABLE BRIDGE PLUG

15666' TOC (12/21/65)

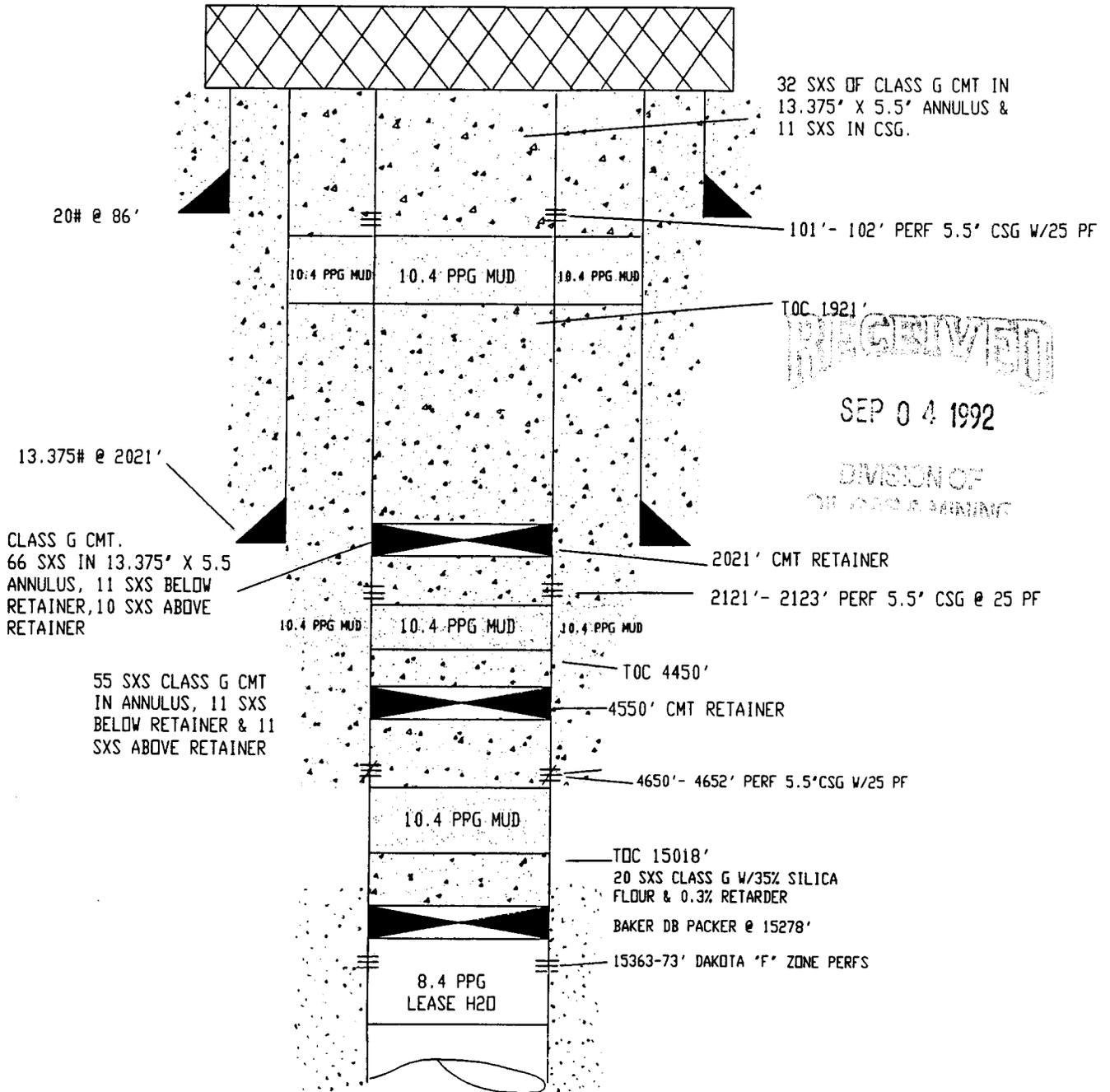
5.5' @ 15703' (12/21/65)  
23 #/FT N-80 CEMENTED  
W/ 390 SX, 8-3/4" HOLE

T.D. 15,754'  
12/17/65



OPERATOR: PHILLIPS PETROLEUM COMPANY	
WELL NAME: FORK "A"	WELL NO. 1
FIELD: BRIDGER LAKE UNIT	
COUNTY: SUMMIT	STATE: UTAH
LOCATION: SEC. 25 3N 14E	DATE: 4-30-92

# PROPOSED P & A



32 SXS OF CLASS G CMT IN  
13.375' X 5.5' ANNULUS &  
11 SXS IN CSG.

20# @ 86'

101'-102' PERF 5.5' CSG W/25 PF

10.4 PPG MUD 10.4 PPG MUD 18.4 PPG MUD

TOC 1921'

RECEIVED  
SEP 04 1992

DIVISION OF  
OIL AND GAS ADMINISTRATION

13.375# @ 2021'

CLASS G CMT.  
66 SXS IN 13.375' X 5.5'  
ANNULUS, 11 SXS BELOW  
RETAINER, 10 SXS ABOVE  
RETAINER

2021' CMT RETAINER

2121'-2123' PERF 5.5' CSG @ 25 PF

10.4 PPG MUD 10.4 PPG MUD 10.4 PPG MUD

TOC 4450'

4550' CMT RETAINER

55 SXS CLASS G CMT  
IN ANNULUS, 11 SXS  
BELOW RETAINER & 11  
SXS ABOVE RETAINER

4650'-4652' PERF 5.5' CSG W/25 PF

10.4 PPG MUD

TOC 15018'  
20 SXS CLASS G W/35% SILICA  
FLOUR & 0.3% RETARDER  
BAKER DB PACKER @ 15278'

15363-73' DAKOTA 'F' ZONE PERFS

8.4 PPG  
LEASE H2O

	OPERATOR: PHILLIPS PETROLEUM COMPANY	
	WELL NAME: FORK 'A'	WELL NO. 1
	FIELD: BRIDGER LAKE UNIT	
	COUNTY: SUMMIT	STATE: UTAH
	LOCATION: SEC. 25 3N 14E	DATE: 8-18-92

