

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 AMB
 Copy NID to Field Office _____
 Approval Letter 2-26-68
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 4-13-68
 OW _____ WW _____ TA _____
 GW _____ OS ✓ PA _____

Location Inspected _____
 Bond released _____
 State of Fee Land _____

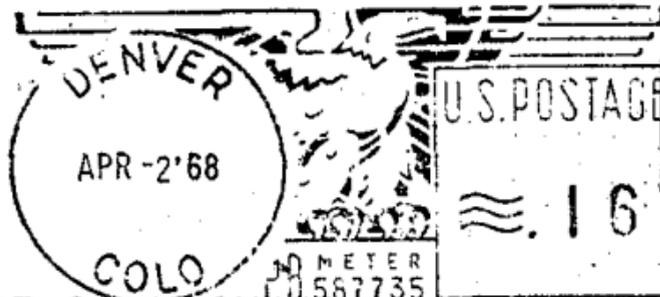
LOGS FILED

Driller's Log 8-22-68
 Electric Logs (No.) 10

E Qual. Log E-I _____ GR _____ GR-N ✓ Micro _____

Lat _____ Mi-L _____ Sonic _____ Others Geological Well Log

Sidewall Neutron Porosity Log - Lithology Log
Formation Density Log



* AFFIX
* FIRST CLASS
* POSTAGE
* HERE

TO STATE OF UTAH, Dept of Nat. Resources

(Name of Correspondent)

Division of Oil and Gas Conservation
1488 West North Temple

(Number and Street)

Salt Lake City
Utah 84116

(Post Office, State, and ZIP Code)

APR 4 1968

**CHANGE OF ADDRESS
NOTICE TO
CORRESPONDENTS**

POD Form 3573
JUNE 1966

NAME

BUTTES GAS & OIL CO.

Area Code and
Telephone No.

Print or Type—Last Name First

House No. and Street, Apt. No.; or Box or R.D. No. (In care of)

**OLD
ADDRESS**

1028 Patterson Building

Post Office, State, and ZIP Code

Denver, Colorado

House No. and Street, Apt. No.; or Box or R.D. No. (In care of)

**NEW
ADDRESS**

420 C. A. Johnson Building

Post Office, State, and ZIP Code

Denver, Colorado 80202

**SIGN
HERE**

R. W. Peterson

4/1/68

Effective Date

COMPLETE OTHER SIDE

GPO c55-16-74248-6

BUTTES GAS & OIL CO.

2150 FRANKLIN STREET
OAKLAND, CALIFORNIA 94612

(415) 893-0364

February 21, 1968

Utah Oil & Gas Conservation Commission
348 E. So. Temple
Salt Lake City, Utah

Attention: Paul Bruchell
Engineer

Gentlemen:

Enclosed is the Application For Permit to Drill the Buttes Federal No. 30-B3X, Washington County, Utah. Also enclosed for your information is a plat showing tentative survey of the location. A final plat will be made after the well has been drilled. A detailed drilling program is enclosed as a supplement to this application.

Thank you very much for your cooperation in giving tentative approval of this application by phone.

Very truly yours,

BUTTES GAS & OIL CO.



C. C. Davis
Staff Engineer

CCD:ras
Enclosures

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

5. LEASE DESIGNATION AND SERIAL NO.
Utah 017980

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Same as above

9. WELL NO.
Federal 30-B3X

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 30, T40S, R12W

12. COUNTY OR PARISH
Washington

13. STATE
Utah

22. APPROX. DATE WORK WILL START*
February 25, 1968

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
BUTTES GAS & OIL CO.

3. ADDRESS OF OPERATOR
2150 Franklin Street, Oakland, California 94612

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: Approximate Center of N/E S/W of Sec. 30, T40S, R12W,
 At proposed prod. zone: Washington County, Utah - Exact location to be surveyed after
 Same rig is set. ✓

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2 Miles Northeast of Toquerville, Utah

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

16. NO. OF ACRES IN LEASE
600 +

17. NO. OF ACRES ASSIGNED TO THIS WELL
160.0 ✓

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

19. PROPOSED DEPTH
4400' ✓

20. ROTARY OR CABLE TOOLS
Rotary ✓

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
Ground: 3600' est.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	10 3/4" ✓	32.40	200 ✓	75 sx. ✓
9 7/8"	7 5/8" ✓	24	2850 + ✓	50 sx. ✓
6 3/4"	4 1/2" ✓	9.5	4400	200 sx. ✓

Program:

1. a. Drill with air or mud 9 7/8" surface hole to 200' ± and open to 13 3/4".
 b. Set 10 3/4" casing to 200' ± and cement to surface. ✓
2. a. Drill 9 7/8" hole with air or air mist to 2850' ±.
 b. Set 7 5/8" casing at 2850' ± (50' into Pakoon Ls.) and cement with 200 sx. ✓
3. a. Drill and core 6 3/4" hole to 4400'.
 b. Set 4 1/2" casing and complete if warranted. ✓

43-253-30001

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 *C. E. Davis* TITLE Staff Engineer DATE February 21, 1968

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

civil ^{civil} Ma ~~AD~~ ~~AD~~

Butler Gasford

NESW Sa 30 40 12 W

Zed 30-B3X 1950 from line

6457 Saf center +

457

3097

Adjusted 2/21/68
~~at~~

2640

457

2183

3097

DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE: Utah
SERIAL NO.: 017980

and hereby designates

NAME: Buttes Gas & Oil Company
ADDRESS: 2150 Franklin Street, Oakland, California 94612

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

T40S, R12W, SLM

Section 30: W/2 SE/4, SE/4 SE/4

Section 31: E/2 NW/4, E/2 NE/4, W/2 SE/4

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

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

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

Willard Pease Drilling Company

Willard H. Pease
.....
(Signature of lessee)

P. O. Box 548
Grand Junction, Colorado

.....
(Address)

February 20, 1968
.....
(Date)

Handwritten initials

DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE: Utah
SERIAL No.: 017980

and hereby designates

NAME: Buttes Gas & Oil Company
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T40S, R12W, SLM
Section 30: E/2 SW/4, W/2S E/4, SE/4 SE/4
Section 31: NW/4 NE/4, NE/4 SW/4,
E/2 NE/4, E/2 NW/4, SE/4

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

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

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

Lloyd Corporation, ~~INCORPORATED~~ Ltd.

Handwritten signature of Ronald Shum

(Signature of lessee)

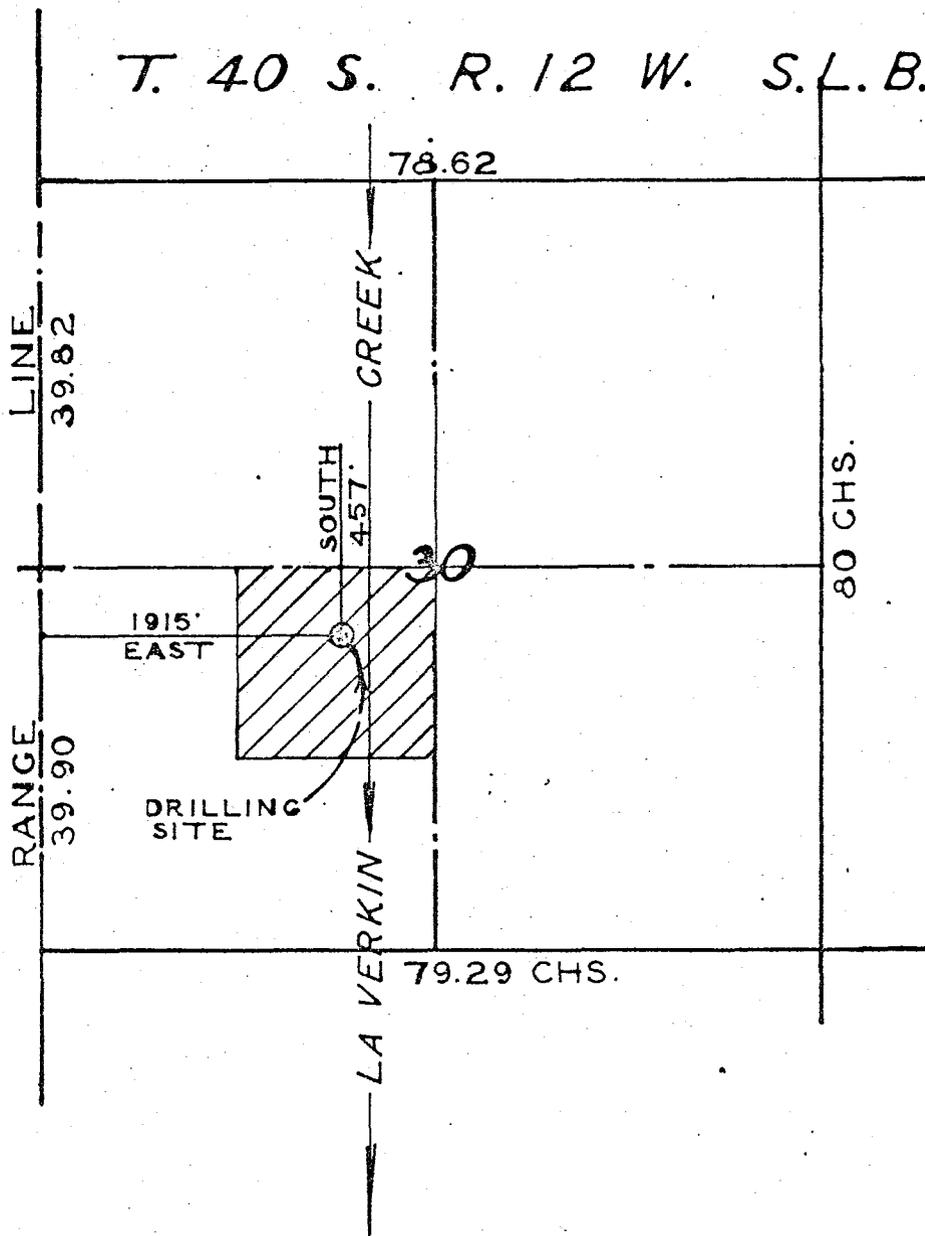
9441 Olympic Boulevard
Beverly Hills, California 90212

February 20, 1968

(Date)

(Address)

T. 40 S. R. 12 W. S.L.B.M.



MEMO —

DRILLING SITE SUBJECT
TO CHANGE TO ROUGH
TERRAIN.

RALPH B. PLATT

REGISTERED ENGINEER AND LAND SURVEYOR

BUTTES

GAS & OIL CO.

DATE: JANUARY 31/67

SCALE: 1 IN. TO 1320 FT.

OAKLAND, CALIFORNIA

RMB

BUTTES GAS & OIL CO.

2150 FRANKLIN STREET
OAKLAND, CALIFORNIA 94612
(415) 893-0364

February 20, 1968

PROPOSED DRILLING PROGRAM I

PROSPECT: ANDERSON JUNCTION

WELL: FEDERAL NO. 30-B3X

- I. SURFACE LOCATION: Approximate center of NE/4 SW/4 of Section 30, T40S, Range 12 W, Washington County, Utah.
- II. ELEVATION: Ground: 3600' est. K.B.: 3610' est.
(All measurements to be from corrected K.B.)
- III. PROPOSED TOTAL DEPTH: 4400'
- IV. CORRELATION POINTS:

<u>Formation</u>	<u>Drilled Estimated Depths</u>	<u>Subsea</u>
Tob Kaibab	Surface	(+3600')
Top Coconino - Supai	900'	(+2700')
Water Entry in Federal No. 1	2100' ±	(+1500')
Top Pakoon (Transitional)	2800'	(+ 800')
First Oil/Gas Show in Federal No. 1	2900'	(+ 700')
Second Oil/Gas Show in Federal No. 1	3630'	(- 30')
Total Depth	4400'	(- 800')

V. HOLE DEVIATION:

Hole shall not change deviation more than 1 1/2° in any 100' interval with drift indicator surveys taken at intervals no greater than 1000'. Maximum allowable deviation is 10°. Acceptable deviation instrument is to be furnished by Contractor.

VI. MUD SPECIFICATIONS:

The Operator expects to use the following program.

0-300' As necessary
300-T.D. To be drilled with air, air mist, and/or aerated oil base mud or diesel fuel.

VII. DRILLING AND WATER SAMPLES:

- A. Drilling samples from surface to Total Depth are to be caught at 10' intervals, or at intervals consistent with drilling rate. The importance of accurate and consistent sample catching is to be stressed.
- B. Samples of drilling water and formation water are to be caught, salinities run, and samples saved for possible analysis. Samples should be retained in plastic containers and labeled with well name, date caught, and depth.

VIII. DRILLING PROGRAM TO 2850' ± DEPTH:

- A. Drill 9 7/8" hole to 200' ± and open to 13 3/4".
- B. Run and cement 10 3/4", 32.75 lb., H-40, ST&C casing at 200 foot depth.

Cement through guide shoe using 75 sacks of API Class "A" cement. This is calculated to be 50% excess. The amount of cement to be used is dependent upon conditions encountered when drilling surface hole and, if necessary, should be revised by Buttes' personnel on location. Equip bottom joint with guide shoe. Use centralizer on bottom joint. Use a thread sealing compound on guide shoe and between the bottom 3 collars. Displace cement using top plug.

- C. Stand cemented 12 hours before drilling out plug and guide shoe. Install 10" series 900 casinghead and weld as required. Install BOE. Test casing and all equipment before drilling out guide shoe.
- D. Drill out plug, cement, and guide shoe. Log and record their depths.
- E. Drill 9 7/8" hole to 2800' ± depth with air or air mist drilling.
- F. At 2850', (50' into Pakoon Ls.) run a Gamma-Density-Caliper Log.
- G. Run 7 5/8" casing and cement bottom 100'. Dry hole up and test for leakage.

X. DRILLING PROGRAM BELOW 2850' ± DEPTH:

- A. Drill 6 3/4" hole from 2850' to estimated TOTAL DEPTH of 4400' or a productive zone. If necessary, convert and drill with aerated oil base mud or diesel fuel.
- B. All drilling breaks below 2850' ± are to be evaluated by well site geologist in the following manner:
 - 1. Drill 2' to 5' into break.
 - 2. Circulate up samples and check pilot flare.
 - 3. Core porosity if warranted by show. Take a full diameter core and fill barrel if possible.

4. Run full core analysis on each foot of core with shows. Request lab to deliver samples to acidizing company to determine most appropriate stimulation program.

C. Before casing is set in Step D, a Gamma-Density-Caliper Log is to be run through open hole interval. If core recovery and analysis is not sufficient to determine water saturation, an I-ES Log should be run.

D. Run 4 1/2" casing as prescribed in completion program.

XI. COMPLETION PROGRAM:

A. Completion program will be detailed based on productive zones encountered and total depth reached.

ALL INFORMATION ON THIS WELL WILL BE RELEASED BY BUTTES GAS & OIL CO.,
2150 FRANKLIN STREET, OAKLAND, CALIFORNIA.

1. Buttes Gas & Oil Co.
2150 Franklin Street
Oakland, California
(415) 893-0364
2. R. W. Peterson
c/o Juniper Oil & Gas Co.
420 C. A. Johnson Building
509 Seventeenth Street
Denver, Colorado
(303) 292-4820
3. Willard Pease
Willard Pease Drilling Co.
Box 548
Grand Junction, Colorado
(303) 242-6912
4. Lloyd Corporation
9441 Olympic Boulevard
Beverly Hills, California 90212
(213) 272-5335

February 26, 1968

Bettes Gas and Oil Company
2150 Franklin Street
Oakland, California 94612

Re: Well No. Federal 30-B3X,
Sec. 30, T. 40 S., R. 12 W.,
Washington County, Utah.

Gentlemen:

This letter is to confirm verbal approval granted by Cleon B. Feight, Director, on February 21, 1968 to drill the above mentioned well.

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
OFFICE: 328-5771

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered while drilling. Your cooperation with respect to completing this form will be greatly appreciated.

February 26, 1968

The API number assigned to this well is 43-053-30001 (see Bulletin D12 published by the American Petroleum Institute).

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sc

cc: U. S. Geological Survey
Rodney Smith, District Engineer
8416 Federal Building
Salt Lake City, Utah

BND

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

Air-Mist Drilling

MUD	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. _____ ft/hr Range _____
Wt. _____ Lbs/ft	90'	1°		
Visc. _____ Os				
W.L. _____ cc/30				
Sand _____ %				
pH _____				
Sal. _____ g/g				
W.C. _____ "				
Oil _____ %				
Temp. _____ °F				

Date 2-29-68
 Day 1
 Operator Buttes Gas & Oil Co.
 Well Federal No. 30-B3X
 Today's Depth 140'
 Yesterday's Depth 0
 Drilled 140 ft. 11 1/2 hrs.
 Other Operation 1/2 hr. of
surveying

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
1		9 7/8	Reed	YHW2	Regular	N	0-140	140	11 1/2		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Rat hole 4:00 P.M. 2-28-68 Rig up - spud in at 8:00 P.M. 2-28-68

Air-Mist drilling at 140' - 8:00 A.M. 2-29-68.

3-1-68

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

MUD	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. ___ft/hr Range _____
Wt. ___ Lbs/ft	150'	1 1/2°		
Visc. ___ °s				
W.L. ___ cc/30				
Sand ___ %				
pH _____				
Sal. ___ g/g				
W.C. ___ "				
Oil ___ %				
Temp. ___ °F				

Date 3-1-68
 Day 2
 Operator Buttes Gas & Oil Co.
 Well Federal No. 30-B3X
 Today's Depth 183'
 Yesterday's Depth 140'
 Drilled 43 ft. 18 hrs.
 Other Operation 8 1/2 drilling
10 1/2 reaming

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
1	735392	9 7/8	Reed	YHW2	Regular	New	0-145	145	14		Dull
2	70296	"	Smith	4W4	"	"	145-183	38	8 1/4		Dull
3	Reamer	13 3/4	Smith	6 point	"	"	0-160		10 1/2		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: _____

BUTTES GAS & OIL CO. MORNING REPORT

FAB

MUD	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. ___ft/hr Range _____
Wt. ___Lbs/ft				
Visc. ___ ^o s				
W.L. ___cc/30				
Sand ___%				
pH _____				
Sal. ___g/g				
W.C. ___"				
Oil ___%				
Temp. ___ ^o F				

Date March 2, 1968

Day 3

Operator Buttes Gas & Oil Co.

Well Federal No. 30-B3X

Today's Depth 183'

Yesterday's Depth 183'

Drilled ft. hrs.

Other Operation Open hole,
Run surface casing

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
4		13 3/4	Reed	YHW2	Regular	New	162 180	18	5	Open Hole	Dull

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG.RATE Ft/Hr.	SALINITY g/g

REMARKS: Continued to open hole from 9 7/8" to 13 3/4". Blow hole clean. Pulled out. Ran 5 joints overall length of 177.97' of 10 3/4", H-40, 32.75 lb. ST&C, New Casing w/Larkin guide shoe. Tack welded shoe and bottom 3 collars. Cemented with 100 sx. of Type II Ideal cement with 2% CaCl₂. Displaced with top rubber plug and 15.8 bbls water (calculated to leave 20 linear feet of cement in pipe.) Had no returns to surface. CIP 12:30 A.M. 2/3/68. Wait on cement until 3:00 A.M. Dropped cuttings behind casing and cemented behind casing w/120 sx. of Ideal Type II cement w/2% CaCl₂. No cement to surface. Wait on cement until 6:00 A.M.

Cemented behind casing w/1 [redacted] of Ideal Type II cement w/[redacted] CaCl_2 . No cement to surface.

Waiting on cement at 8:00 A.M. 3/3/68.

BUTTES GAS & OIL CO. MORNING REPORT

AIR

MUD	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. _____ft/hr Range _____
Wt. _____ Lbs/ft				
Visc. _____ °s				
W.L. _____ cc/30				
Sand _____ %				
pH _____				
Sal. _____ g/g				
W.C. _____ "				
Oil _____ %				
Temp. _____ °F				

Date March 3, 1968
 Day 4
 Operator Buttes Gas & Oil Co.
 Well Federal No. 30-B3X
 Today's Depth 219'
 Yesterday's Depth 180'
 Drilled 39 ft. 6 hrs.
 Other Operation Cement surface
Land casing - drill out.

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
5	843308	9 7/8	Reed	YHW2	Regular	New	Drilled 186	cement, shoe and clean out hole (4 hours)			
6	LD10	9 7/8	HTC	RG7J	Regular	"	219	39	6		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Haul cinders and sawdust and shavings. Put in Hole. Mixed 49 sx. Ideal Type II
2% CaCl₂. Fill hole around casing. CIP @ 10:45 A.M. March 2, 1968.
Landed casing @ 178'. Hook up BOE. Test system to 1000 psi/15 minutes. Held OK. Run
Bit No. 5. Hit Plug @ 174'. Drill hard cement to 174-178'. Shoe @ 178'. Clean out fill to
186'. Blow hole clean and dried up. Ran Bit No. 6. Drilling @ 2:00 A.M.
Drilling @ 219' @ 8:00 A.M. Dusting to 215' where hole became damp.

200

BUTTES GAS & OIL CO. MORNING REPORT

AIR & AIR MIST

MUD Wt. ___ Lbs/ft Visc. ___ °s W.L. ___ cc/30 Sand ___ % pH ___ Sal. ___ g/g W.C. ___ " Oil ___ % Temp. ___ °F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. ___ ft/hr Range ___
	350'	1°	Max.	220 psi
			Min.	195 psi

Date March 4, 1968
 Day 5
 Operator Buttes Gas & Oil Co
 Well Federal No, 30-B3X
 Today's Depth 422'
 Yesterday's Depth 219'
 Drilled 203 ft. 23 1/2 hrs.
 Other Operation Survey

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
6	LZ610	9 7/8	HTC	RG7J	Regular	New	186 422	236	28 3/4		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Drilling at 422' at 8:00 A.M. Hole making small quantity of water. Drilling w/2 compressors.

21/2

BUTTES GAS & OIL CO. MORNING REPORT

Date March 5, 1968

Day 5

Operator Buttes Gas & Oil

Well Federal No. 30-B3X

Today's Depth 735'

Yesterday's Depth 422'

Drilled 312 ft. 21 3/4 hrs.

Other Operation Trip &

Survey

MUD	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. <u> </u> ft/hr Range <u> </u>
Wt. <u> </u> Lbs/ft	500'	0°30'		Min: 190
Visc. <u> </u> °s				Max: 220
W.L. <u> </u> cc/30				
Sand <u> </u> %				
pH <u> </u>				
Sal. <u> </u> g/g				
W.C. <u> </u> "				
Oil <u> </u> %				
Temp. <u> </u> °F				

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
6	L2610	9 7/8	HTC	PRGTJ	Regular	New	180 484	304	32		Dull
7	45252	9 7/8	CP	EH7	"	"	484 735	231	17 3/4		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g
	Limestone					

REMARKS: Drilling with Air and Air mist at 735'.

3000

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

Date March 6, 1968

Day 7

Operator Buttes Gas & Oil

Well Federal No. 30-B3X

Today's Depth 980'

Yesterday's Depth 735'

Drilled 245' ft. 19 1/2 hrs.

Other Operation Trip and

Survey

XXXXX Wt. _____ Lbs/ft Visc. _____ \circ s W.L. _____ cc/30 Sand _____ % pH _____ Sal. _____ g/g W.C. _____ " Oil _____ % Temp. _____ \circ F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. _____ ft/hr Range _____
	800'	1 \circ 45'		Air pressures: Min: 180 Max: 200

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
7	45252	9 7/8	CP	EH7	Regular	N	484 846	362	26		60% Dull
8	289265	"	"	"	"	"	846 980	137	13 1/2		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Drilling with air and air mist at 980' at 8:00 A.M.

Sharon

PMB

BUTTES GAS & OIL CO.

2150 FRANKLIN STREET
OAKLAND, CALIFORNIA 94612

(415) 893-0364

March 7, 1968

Utah State Land Board
State Capitol Building
Salt Lake City, Utah

Attention: Mr. Cleon B. Feight

Dear Mr. Feight:

Bob Norman has suggested that you will probably be interested in being kept timely informed as to our drilling operations at the Federal No. 30-B3X well. Enclosed are drilling reports bringing you up to date. We will in the future mail these to you daily.

Kindest regards,



C. C. Davis
Staff Engineer

CCD:ras
Enclosures

312

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

Air

MKXXX Wt. ___ Lbs/ft Visc. ___ °s W.L. ___ cc/30 Sand ___ % pH ___ Sal. ___ g/g W.C. ___ " Oil ___ % Temp. ___ °F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. ___ ft/hr Range ___
	1000'	1°30'	Air pressures: Min: 180 Max: 210	

Date March 7, 1968
 Day 8
 Operator Buttes Gas & Oil Co.
 Well Federal No. 30-B3X
 Today's Depth 1212'
 Yesterday's Depth 980'
 Drilled 232 ft. 21 hrs.
 Other Operation Trip and survey

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
8	45252	9 7/8	CP	EH7	Regular	N	846 1192	346	29		Dull
9		9 7/8	Smith	8AP	Regular	N	1192 1212	20	2		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Drilling with air and air mist

210

BUTTES GAS & OIL CO. MORNING REPORT

ANDERSON JUNCTION

Air

MMX Wt. _____ Lbs/ft Visc. _____ ^o s W.L. _____ cc/30 Sand _____ % pH _____ Sal. _____ g/g W.C. _____ " Oil _____ % Temp. _____ ^o F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. _____ ft/hr Range _____
	1350'	1°15'		Air pressures: Min: 180 Max: 200

Date March 8, 1968
 Day 9
 Operator Buttes Gas & Oil
 Well Federal No. 30-B3X
 Today's Depth 1446'
 Yesterday's Depth 1212'
 Drilled 234 ft. 21 hrs.
 Other Operation Trips and survey

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
9	72735	9 7/8	Smith	8AT	Regular	New	1192 1446	254	26		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG. RATE Ft/Hr.	SALINITY g/g

REMARKS: Pulled out to shoe and installed another compressor and booster.
Drilling with air and air mist.

PMB

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

AIR

MXX	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg., ___ft/hr Range _____
Wt. ___ Lbs/ft	1350'	1° 15'	Air Pressures: Min: 200 Max: 210	
Visc. ___ °s				
W.L. ___ cc/30				
Sand ___ %				
pH _____				
Sal. ___ g/g				
W.C. ___ "				
Oil ___ %				
Temp. ___ °F				

Date March 9, 1968
 Day 10
 Operator Buttes Gas & Oil
 Well Federal No. 30-B3X
 Today's Depth 1612'
 Yesterday's Depth 1446'
 Drilled 166 ft. 18 3/4 hrs.
 Other Operation Trip

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
9	82735	9 7/8	Smith	8AP	Regular		1192 1491	299	32 1/4		Dull
10	71512	"	"	9AP	Regular		1491 1612	127	13 1/4		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Drilling ahead with air and air mist.

PMO

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

AIR

XXXX	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. ___ft/hr Range _____
Wt. ___ Lbs/ft	1750'	0° 45'	Air: Min: 280	Max: 300
Visc. ___ °s				
W.L. ___ cc/30				
Sand ___ %				
pH _____				
Sal. ___ g/g				
W.C. ___ "				
Oil ___ %				
Temp. ___ °F				

Date March 10, 1968
 Day 11
 Operator Buttes Gas & Oil Co.
 Well Federal No. 30-B3X
 Today's Depth 1818'
 Yesterday's Depth 1612'
 Drilled 206 ft. 19 1/4 hrs.
 Other Operation Trip and Survey

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
10	71512	9 7/8	Smith	9AP	Regular	New	1491 1758	267	28 3/4		Dull
11		"	Reed	YCG	"	"	1818	56	4 3/4		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Drilling with air and air mist. Increase in water entry (see air pressures)

210

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

AIR		SURVEYS			RATES	
NOTE		Depth	Dev.	Direction	Drilling: Avg. _____ ft/hr Range _____	
Wt. _____ Lbs/ft						
Visc. _____ \circ s						
W.L. _____ cc/30						
Sand _____ %		1750'	0° 45'		Air Pressures: Min: 300 Max: 320	
pH _____						
Sal. _____ g/g						
W.C. _____ "						
Oil _____ %						
Temp. _____ \circ F						

Date March 11, 1968
 Day 12
 Operator Buttes Gas & Oil
 Well Federal No. 30-B3X
 Today's Depth 2042'
 Yesterday's Depth 1818'
 Drilled 224 ft. 23 hrs.
 Other Operation -

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
11	A21510	9 7/8	Reed	YCG	Regular	New	1752 2042	284	28 1/2		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: Increase in water at 2017'. Able to handle with compressors.

P112

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

AIR

XXXX Wt. ___ Lbs/ft Visc. ___ °s W.L. ___ cc/30 Sand ___ % pH ___ Sal. ___ g/g W.C. ___ " Oil ___ % Temp. ___ °F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. ___ ft/hr Range ___
	2050	0° 30'		Air Pressures: Min: 300 Max: 350
				Took 600 psi to start circulation when got on bottom after trip.

Date March 12, 1968
 Day 13
 Operator Buttes Gas & Oil
 Well Federal No. 30-B3X
 Today's Depth 2235'
 Yesterday's Depth 2042'
 Drilled 193 ft. 19 1/2 hrs.
 Other Operation Trips
and survey

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
11	A21510	9 7/8	Reed	YCG	Regular	New	1758 2083	325	33		Dull
12	72855	"	Smith	8AP	"	"	2083 2235	152	14		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g
	Ls & Sand					

REMARKS: Drilling with air mist.

OMP

ANDERSON JUNCTION

BUTTES GAS & OIL CO. MORNING REPORT

AIR

Wt. _____ Lbs/ft Visc. _____ °s W.L. _____ cc/30 Sand _____ % pH _____ Sal. _____ g/g W.C. _____ " Oil _____ % Temp. _____ °F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. _____ ft/hr Range _____
	2271'	1°		Air Pressures: Min: 320 Max: 350

Date March 13, 1968
 Day 12/4
 Operator Buttes Gas & Oil Co.
 Well Federal No. 30-B3X
 Today's Depth 2353'
 Yesterday's Depth 2235'
 Drilled 118 ft. 19 3/4 hrs.
 Other Operation Trip & Survey

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
12	72855	9 7/8	Smith	8AP	Regular	New	2083 2307	224	23		Dull
13	17885	"	"	9AP	"	"	2353	46	11 3/4		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG. RATE Ft/Hr.	SALINITY g/g
	LS. & Sand					

REMARKS: Drilling with air mist.

March
AIR

BM

BUTTES GAS & OIL CO. MORNING REPORT

ANDERSON JUNCTION

Date March 14, 1968

Day 15

Operator Buttes Gas & Oil

Well Federal No. 30-B3X

Today's Depth 2432'

Yesterday's Depth 2353'

Drilled 79 ft. 9 1/2 hrs.

Other Operation Work on

their booster 10 hours - Trip

4 1/2 hours.

XXXX Wt. _____ Lbs/ft Visc. _____ °s W.L. _____ cc/30 Sand _____ % pH _____ Sal. _____ g/g W.C. _____ " Oil _____ % Temp. _____ °F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. _____ ft/hr Range _____
	2271'	1°		Air Pressures: Min: 320 Max: 350

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
13	17485	9 7/8	Smith	9AP	Regular	New	2307 2356	49	12 1/4		Dull
14	C42053	"	Reed	YCG	"	"	2356 2423	76	8 1/2		Inc.

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g

REMARKS: 2285'-2365' - Churt.

Samples sent to Salt Lake City - very fine grain sand - Orthoquartzite material.

Drilling ahead now and compressor is repaired.

BUTTES GAS & OIL CO. MORNING REPORT

ANDERSON JUNCTION

AIR

MUD Wt. _____ Lbs/ft Visc. _____ °s W.L. _____ cc/30 Sand _____ % pH _____ Sal. _____ g/g W.C. _____ " Oil _____ % Temp. _____ °F	SURVEYS			RATES
	Depth	Dev.	Direction	Drilling: Avg. _____ ft/hr Range _____
	2650'	1°15'	Air Pressure: Min: 330 Max: 350	

Date March 15, 1968
 Day 16
 Operator Buttes Gas & Oil
 Well Federal No. 30-B3X
 Today's Depth 2663'
 Yesterday's Depth 2432'
 Drilled 231 ft. 20 1/2 hrs.
 Other Operation Trip and
survey

Bit No.	Serial No.	Size	Make	Type	Jet Sizes	New Used	Interval From-To	Feet	Hours	Rate Ft/Hr	Condition
14	C42053	9 7/8	Reed	YCG	Regular	New	2356 2663	307	29 1/2		Dull

MUD LOGGER REPORT

INTERVAL From-To	LITHOLOGY	DITCH GAS	BLENDER GAS	CUTTING GAS	DRLG RATE Ft/Hr.	SALINITY g/g
	Sand & ls.					

REMARKS: Tripping

ANDERSON JUNCTION

Buttes- Federal No. 30-B3X

Mar 17, 1968

Drilling Depth: 2964'

Day 18

Feet drilled: 160' in 16 1/2 hours

March 16, 1968

Day 17

Drilling Depth: 2804'

Feet drilled: 141' in 19 hours.

ANDERSON JUNCTION

Buttes-Federal No. 30-B3X

March 18, 1968 Day 19

Drilling Depth: 3110'

Feet Drilled: 146' in 22 hours.

MAR 21 1968

DEPTH: 3312'

DEVIATION: 1⁰

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

March 25, 1968 Day 26

Depth: 3565'.

Cored 18' in 5 hours.

March 26, 1968 Day 27

Depth: 3851'

Drilled 286' in 18 1/2 hours.

MAR 28 1968

ANDERSON JUNCTION
Federal No. 30-B3X
3-23-68 - Day 24

Depth: 3406'. Drilled 21'. Cored 5'.
Core No. 1 3380-3384 Cut 4'-Rec. 4'
3-24-68 - Day 25 Core No. 2 3405-3406 1/2' Cut 1 1/2'
Rec. 1'

Depth: 3547'. Drilled 141'
Cir. & wait on Core Head.

MAR 28 1968

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X March 22, 1968 Day 23

Depth: 3380'.

Feet Drilled: 68 feet in 5 1/4 hours.

CORE ANALYSIS RESULTS

Company BUTTES GAS & OIL COMPANY Formation CALLVILLE LIMESTONE File RP-3-2285
Well FEDERAL NO. 30-B3X Core Type DIAMOND 3.5" Date Report 3-28-68
Field WILDCAT Drilling Fluid AIR/SOAP-WATER Analysts GALLOP
County WASHINGTON State UTAH Elev. 3700'EST Location SEC 30-T10S-R12W

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS MAX. KA 900	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		BULK DENS.	GRAIN DENS.	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER			

(WHOLE-CORE ANALYSIS)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS MAX. KA	POROSITY PER CENT	OIL	TOTAL WATER	BULK DENS.	GRAIN DENS.	SAMPLE DESCRIPTION AND REMARKS
1	3380.0-81.0	0.1	0.1	1.7	6.6	66.3	2.57	2.60 Dolo, Gy, Fn Xln, Sl/Shy
2	3382.0-83.0	0.1	0.1	1.5	0.0	95.8	2.67	2.70 Dolo & Lm, Gy Fn Xln
3	3404.0-05.0	<0.1	<0.1	7.2	0.0	42.8	2.64	2.72 Lm, Gy, Fn Xln, W/Sh & Cht
							2.81	2.84 Predominantly Chert
4	3548.0-49.0	<0.1	<0.1	1.0	0.0	84.3	2.72	2.84 Lm, Gy, Fn Xln, Sl/Shy & Chty
5	3556.0-57.0	<0.1	<0.1	0.8	0.0	89.2	2.68	2.73 Lm, Gy Fn Xln, Sl/Shy & Chty
6	3564.0-65.0	<0.1	<0.1	0.8	0.0	87.8	2.73	2.79 Lm, Gy Fn Xln

Service #5-B

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4/12, Cont. Unloaded hole at 11:00 p.m. Recovered 2 bbls of rusty, soapy water with no show of oil.

4/13 Unloaded hole at 3:00 a.m. Recovered $1\frac{1}{2}$ bbls of rusty, soapy water with no show of oil. Well not making any gas. Removed BOE. Installed casing flange with 8 5/8" stub (5') welded on top and valve.

Rig released and operations suspended at 10:00 a.m., April 13, 1968.

4/10

Ran Halliburton Line. Stopped at 3560'. Ran D. P. Went to 3780'.
Ran Halliburton Line. Stopped at 4274'. Pickup at 4250'.

Plug No. 6, 4050-3400'.

With open end drill pipe hanging at 4050' mixed and equalized 139 sx of construction cement mixed with 2 sx of Flocele. Displaced with 31 bbls. of water.
CIP at 1:31 p.m.

Ran Sinker bar on Halliburton line. Found top of cement at 3860'.

Plug No. 7, 3612-3470'.

With open end drill pipe hanging at 3612' mixed and equalized 30 sx of construction cement with 1/2 sx of Flocele. Displaced with 35 bbls. Water circulated to surface after 15 bbls.
CIP at 5:15 p.m.

Found top of plug by line at 3450'.

Ran drill pipe (open end to 3470' and washed out excess cement).

Ran Halliburton Line; Plug top at 3685'.

Plug No. 8, 3564-3470'.

With open end drill pipe at 3564' mixed and equalized 20 sx of construction cement. Displaced with 33 bbls of water.
CIP at 11:10 p.m.

4/11

Stand cemented to 2:00 a.m. Ran wire line. Could not get out of end of drill pipe. Pulled out. Ran wire line. Found plug at 3650'. Fluid at surface before pulling pipe. Ran drill pipe. Ran wire line. Stopped at 3650'. Ran drill pipe to 3628'. Set down 10,000#, held O. K. Pulled up to 3598'.

Plug No. 9, 3598-3458'.

With open drill pipe at 3598' mixed and equalized 30 sx of construction cement with 3 1/2% CaCl₂ and 1/2 sx of Flocele. Displaced with 37 bbls of water. Good circulation during cementing.
CIP at 10:52 a.m.

Pulled four stands. Filled annulus.

Annulus fluid level 20' down. Ran wire line. Stopped at 3217' with drill pipe at 3378'. 161 Feet of cement in drill pipe. Pressured drill pipe to 950 Psi, but could not clear. Pulled out; five joints of drill pipe plugged.

Ran wire line. Stopped at 3580'.

Ran drill pipe with 5 9/16" bit sub on bottom. Stopped at 3446'. Ran wire line inside of drill pipe. Stopped at 3552'. Ran 6 3/4" bit and cleaned out to 3523'.

4/12

Ran Halliburton bridge plug on drill pipe and set at 3515'. Set down with 5,000 lbs; held o. k. Filled drill pipe and annulus.

Plug No. 10, 3510-3470'.

With open end drill pipe hanging at 3510' mixed and equalized 8 sx of construction cement. Displaced with 42.5 bbls of water. Circulation throughout job.
CIP at 7:53 a.m.

Pulled three stands and cleared drill pipe.

Stand cement until 12:00 Noon. Tagged plug at 3465' with 5,000#. Held O. K. Pulled to 3167' and cleared drill pipe. Hooked up blooie line. Start unloading hole using rig pump and air compressor at 1:10 p.m. Finished unloading at 3:00 p.m. Left well open.

Unloaded hole at 7:00 p.m. Recovered four bbls of soapy, slightly muddy water with scum of oil.

4/3, Cont. Drill stem test No. 1, 4874-5025'.

Ran Halliburton dual hookwall packer on 4" drill pipe with 499' of 5" drill collars and set bottom packer at 4874' at 9:50 a.m. Tool opened for ten minutes, at 9:56 a.m. with stormy blow in bubble bucket. Closed tool at 10:06 a.m. for 30 minutes ISIP. Opened at 10:36 a.m. for 62-minute flow. Closed tool at 11:38 a.m. for 92-minute final shut in pressure. Pulled tool loose at 1:10 p.m. Recovered 4162' of slightly muddy salt water (approximately 15,000 PPM) and bottom two drill collars full of cuttings.

	<u>IHP</u>	<u>IFP</u> (10 min)	<u>FFP</u> (10 min)	<u>ISIP</u> (30 min)	<u>IFP</u> (62 min)	<u>FFP</u> (62 min)	<u>FSIP</u> (92 min)	<u>FHP</u>
Recorder at 4850'	1867	414	901	1862	1012	1862	1864	1867
4913'	1898	505	1326	1893	1086	1892	1894	1898

4/4 Ran in to 4930'. Jet sub cut out. Changed jet sub and circulated and cleaned out bridges 4930-5021'.

4/5 Drilled 6 3/4" hole to 5266'.
Drilling Data: Water with air and soap injection.
Pressure: 500-550. Speed: 54. Weight: 8 tons.

4/6 Drilled 6 3/4" hole to 5518'.
Drilling Data: Water with air and soap injection.
Pressure: 550. Speed: 55. Weight: 8 tons.

4/7 Drilled 6 3/4" hole to 5606'.
Pulled up 150' and stuck pipe. Worked pipe 11 hours and pulled loose.
Drilling Data: Water with air and soap injection.
Pressure: 550. Speed: 54. Weight: 10 tons.

4/8 Cleaned out bridges 4910-4975'.
Pulled out. Could not log below 4910'. Ran open end drill pipe and worked to 5200'.
Ran Gamma-Ray log from 5200'.

4/9 Plug No. 1, 4770-4670'.
With open end drill pipe hanging at 4770'. Mixed and equalized 25 sx of construction cement with 1/2 sx of Flocele. Displaced with 45 bbls (fluid level at 500').
CIP at 10:18 a.m., 4/9/68.

Plug No. 2, 4465-4365'.
With open end drill pipe hanging at 4465', mixed and equalized 25 sx premixed with 1/2 sx Flocele.. Displaced with 41 3/4 bbl water.
CIP at 10:39 a.m.

Plug No. 3, 4060-3960'.
With open end drill pipe hanging at 4060' mixed and equalized 25 sx premixed with 1/2 sx Flocele. Displaced with 37 1/4 bbls water.
CIP at 11:03 a.m.

Plug No. 4, 3568-3468'.
With open end drill pipe hanging at 3568' mixed and equalized 25 sx of construction cement with 1/2 sx Flocele. Displaced with 32 bbls of water.
CIP at 11:25 a.m.
Ran open end drill pipe to 4250' without hitting any cement.

Plug No. 5, 4158-3448'.
With open end drill pipe hanging at 4158' mixed and equalized 150 sx of construction cement with 3 sx of Flocele. Displaced with 31 bbls of water.
CIP at 8:10 p.m.

- 3/24/68 Core No. 3, 3547-3565'. Cut and recovered 18'. Christensen Diamond C. H. 6 3/4".
Coring Data: Air Pressure: 350-400 Psi
Rotary Speed: 40-50
Weight: 6-7 Ton
Corehead in good condition.
- 3/25 Drilled 6 3/4" hole to 3737'.
Drilling Data: Air and soap injection.
Pressure: 250-275 Psi. Speed: 30-40. Weight: 4-10 tons.
- 3/26 Drilled 6 3/4" hole to 3920'.
At 3851' when running new bit, water surfaced. Unloaded hole every 600-700' at max. of 1100 Psi pressure. Bridges at 3547-3650'. On connections pressure increased to 700 Psi.
Drilling Data: Air and soap injection.
Pressure: 250-375 Psi. Speed: 50-60. Weight: 9-10 tons.
- 3/27 Drilled 6 3/4" hole to 4240'.
Hole making water. Changed from blooie line to flow line at 4189'.
Drilling Data: Water with air and soap injection.
Pressure: 300-800 Psi. Speed: 40. Weight: 10 tons.
- 3/28 Drilled 6 3/4" hole to 4545'.
Drilling Data: Water with air and soap injection.
Pressure: 450-500 Psi. Speed: 50-60. Weight: 10 tons.
- 3/29 Core No. 4, 4545-4547'. Cut 2' and recovered 1'. Reese C. H.
Coring Data: No circulation while coring.
Pressure: 500 Psi. Speed: 40. Weight: 10 tons.
Ran to 4547' and conditioned for logging.
- 3/30 Ran Schlumberger I-ES, GR-Neutron, Gamma-Density and Sidewall-Neutron logs recording from 4545'.
Drilled 6 3/4" hole to 4658'.
Had large increase in water at 4600' (6" stream of water at surface).
Drilling Data: Water with air and soap injection.
Pressure: 300-500. Speed: 60. Weight: 10 tons.
- 3/31 Drilled 6 3/4" hole to 4891'.
Water temperature, 129° F. at surface.
Drilling Data: Water with air and soap injection.
Pressure: 500. Speed: 60. Weight: 10 tons.
- 4/1 Drilled 6 3/4" hole to 5025'.
Circulated to log. Had bridges at shoe of 7 5/8" casing. Cleaned out to bottom. Hole sloughing at 4920'.
- 4/2 Measured in with drill pipe to 5021'. Ran open end drill pipe and cleaned out bridges to 4995'.
- 4/3 Ran Schlumberger Gamma Ray-Neutron log from 4995' inside of drill pipe.

3-20 7 5/8" casing cemented at 3312' w/70 sx.

cont.

Ran 99 joints, overall length 3318', of 7 5/8", ST&C, J-55, Seamless, 24 lb., New and Used casing with Larkin guide shoe and float insert baffle. Centralizers used on first 3 joints. Used Halco weld on first 3 collars and guide shoe. Set guide shoe at 3312'. Float insert at 3260'. Cemented with Halliburton Company using 70 sx. of construction cement with 3% CaCl₂. Used one top and one bottom rubber plug. Displaced with 156 barrels of water at 3-5 barrels per minute rate. Surface pressure for the first 126 barrels 0 psig and last 30 barrels of water displaced at a pressure of 100 psig. CIP at 6:12 P. M. 3-20-68. Calculated theoretical linear fill outside of pipe 325 feet. Held 100 psig. pressure building to a maximum of 160 psig. pressure at 10:00 P. M.

Landed casing, cut off 9 5/8" surface casing and installed slips.

3-21 Waited on cement a total of 25 hours. Found top rubber plug at 3250' and cement at 3253'. Drilled out baffle at 3256' and cleaned out medium hard cement to 3312'. Drilled shoe at 3312'.
Drilling Data: Drying hole up and drilling out cement. No drilling data recorded on tour sheet.

3-22 Drilled 6 3/4" hole to 3380'.
Core No. 1 - 3380' - 3384'. Christensen, Diamond corehead. Cut and recovered 4'.
Corehead 40% worn due to chert.
Coring Data: Air Pressure: 300-400 psig. Wt. on bit: 12-14 tons. Rotary speed: 40-50 rpm.
Drilled 6 3/4" hole to 3400'.
Drilling Data: Air drilling (dusting). Air Pressures: 150 psig. Rotary speed: 60 rpm. Wt. on bit: 8 tons.

3-23 Drilled 6 3/4" hole to 3405'.
Core No. 2 3405'-3406'. Christensen Diamond corehead. Cut and recovered 1'.
Corehead 60% worn due to chert.
Coring Data: Air Pressure: 300-400 psig. Rotary speed: 40-50 rpm. Wt. on bit: 6-7 tons. Drilled 6 3/4" hole to 3547'. Encountered some water between depths of 3489 to 3500'. Water titrated 2100 grains per gallon.
Drilling Data: Air and soap water injection. Air Pressures: Min: 180 psig. Max: 250 psig. Rotary speed: 50 rpm. Wt. on bit: 9 tons.

- 3-5 Drilled 9 7/8" hole to 900'.
Drilling Data: Drilling with air and soap water injection. Air pressures: Min: 200 psig. Max: 220 lbs. Rotary speed: 60 rpm. Wt. on bit: 8 tons using percussion tool.
- 3-6 Drilled 9 7/8" hole to 1157'.
Drilling Data: Using air and soap water injection. Air pressures: Min: 200 psig. Max: 220 psig. Rotary speed: 60 rpm. Wt. on bit: 8-9 tons using percussion tool.
- 3-7 Drilled 9 7/8" hole to 1364'.
Drilling Data: Using air and soap water injection. Air Pressures: Min: 210 psig. Max: 210 psig. Rotary speed: 60 rpm. Wt. on bit: 8 tons, using percussion tool.
- 3-8 Drilled 9 7/8" hole to 1543'.
Drilling Data: Using air and soap water injection. Air Pressures: Min: 200 psig. Max: 250 psig. Rotary speed: 60 rpm. Wt. on bit: 8 tons using percussion tool.
- 3-9 Drilled 9 7/8" hole to 1758'.
Drilling Data: Using air and soap water injection. Air Pressures: Min: 200 psig. Max: 300 psig. Rotary Speed: 60 rpm. Wt. on bit: 8 tons using percussion tool.
- 3-10 Drilled 9 7/8" hole to 1965'. Had to use 400 psig to unload hole after trip at 1758'. Noted 25' of tight hole. Drilling Data: Air and soap water injection. Air Pressures: Min: 260 psig. Max: 300 psig. Rotary speed: 60 rpm. Wt. on bit: 8-9 tons using percussion tool.
- 3-11 Drilled 9 7/8" hole to 2145'. Noted increase in water at 2017'. Had to unload hole at 2145' with 600 psig. and reamed 30 feet to bottom. Drilling Data: Air and soap water injection. Air Pressures: Min: 300 psig. Max: 400 psig. Rotary speed: 60 rpm. Wt. on bit: 8-9 tons using percussion tool.
- 3-12 Drilled 9 7/8" hole to 2317'. Required 700 psig. to unload hole after trip at 2307'.
Drilling Data: Air and soap water injection. Air Pressures: Min: 350 psig. Max: 400 psig. Rotary speed: 60 rpm, Wt. on bit: 8-9 tons using percussion tool.
- 3-13 Drilled 9 7/8" hole to 2358'. Repaired booster.
Drilling Data: Air and soap water injection. Air Pressures: Min: 300 psig. Max: 400 psig. Rotary speed: 60 rpm. Wt. on bit: 9 tons using percussion tool.
- 3-14 Drilled 9 7/8" hole to 2598'.
Drilling Data: Air and soap water injection. Air Pressures: Min: 300 psig. Max: 350 psig. Rotary speed: 60 rpm. Wt. on bit: 9 tons using percussion tool.
- 3-15 Drilled 9 7/8" hole to 2752'. Required 1 hour to unload hole after trip.
Drilling Data: Air and soap water injection. Air Pressures: Min: 320 psig. Max: 400 psig. Rotary Speed: 60 rpm. Wt. on bit: 9 tons using percussion tool.
- 3-16 Drilled 9 7/8" hole to 2929'.
Drilling Data: Air and soap water injection. Air Pressures: Min: 320 psig. Max: 350 psig. 900 psig. required to unload hole after trip. Rotary speed: 60 rpm. Wt. on bit: 9 tons using percussion tool.
- 3-17 Drilled 9 7/8" hole to 3056'.
Drilling Data: Air and soap water injection. Air Pressures: Min: 400 psig. Max: 450 psig. Required 1100 psig. to unload hole after trip. Rotary speed: 60 rpm., Wt. on bit: 9 tons using percussion tool.
- 3-18 Drilled 9 7/8" hole to 3139'. One air compressor down. Waited on replacement.
Drilling Data: Air and soap water injection. Air Pressures: Min: 400 psig. Max: 430 psig. Required 500 psig. to unload hole after connection. Rotary speed: 60 rpm. Wt. on bit: 9 tons using percussion tool.
- 3-19 Waited on replacement compressor. Drilled 9 7/8" hole to 3225'.
Drilling Data: Air and soap water injection. Air Pressures: Min: 300 psig. Max: 350 psig. Rotary speed: 60 rpm. Wt. on bit: 9 tons using percussion tool.
- 3-20 Drilled 9 7/8" hole to 3312'. Blew hole clean and ran 7 5/8" casing.
Drilling Data: Air and soap water injection. Air Pressures: Min: 350 psig. Max: 350 psig. Rotary speed: 60 rpm. Wt. on bit: 10 tons using percussion tool.

WELL SUMMARY AND HISTORY REPORT

Operator Buttes Gas & Oil Co.

Well No. Federal No. 30-B3X

Field Wildcat

Location 2106' N of SL and 1913' E of WL Sec. 30, T40S, R12W,
Washington County, Utah

Contractor Willard Pease Drilling Company

Elevation of ground above sea level datum
feet 3608'

All depth measurements taken from top of K.B. which is 10 feet above ground, 3618'.

Date August 21, 1968

John E. Pease
Engineer

/Oran Rambo/
(Superintendent)

R. W. Peterson
Title General Manager

Commenced drilling February 28, 1968

Completed drilling April 13, 1968

Total depth	<u>5606'</u>	Plugged depth	<u>3465'</u>	Junk	<u>None</u>	Current Status	<u>Well Suspended</u>	
Size of Casing	Depth of Shoe	Top of Casing	Weight of Casing	New or 2nd Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Sx of Cement
10 3/4"	178'	Surface	32.75 lb.	New	Smls.	H-40	13 3/4"	391 sx
7 5/8"	3312'	Surface	24 lb.	New & Used	Smls.	J-55	9 7/8"	70 sx

1968

2-26 thru 2-27 Move in and rig up.

2-28 Spudded well at 7:30 P.M. Drilled 9 7/8" hole to 40'.
Drilling Data: Air: No pressures recorded.

2-29 Drilled 9 7/8" hole to 183'.
Drilling Data: Air and soap injection. Air pressures: Max. and Min. 150 psig.
Rotary speed: 50 rpm. Wt. on bit: 5 tons.

3-1 Reamed 9 7/8" hole to 13 3/4" hole to a depth of 180'. Conditioned hole to run surface casing.
Drilling Data: Drilled with air and soap injection. Air pressures: 100 psig. Max. and Min. No data on rpm or wt. on bit. 10 3/4" casing cemented at 178' with 391 sx. No returns. Ran 5 joints overall length of 177.97' of 10 3/4", H-40, 32.75 lb., ST&C, new casing with Larkin guide shoe. Spet welded shoe and bottom three collars. Cemented with 100 sx. of Type II, Ideal cement with 2% CaCl₂. Displaced with top rubber plug and 15.8 bbls. of water. Had no returns to surface. CIP at 12:30 A.M., 3-2-68.

3-2 Dropped cuttings behind casing and cemented on outside of casing with 120 sx. of Ideal Type II cement with 2% CaCl₂. No cement to surface. Waited on cement 3 hours. Cemented around outside of casing with 122 sx. of Type II Ideal cement with 2% CaCl₂. No cement to surface. Waited on cement 4 hours. Put cinders and sawdust in annulus behind casing and cemented to surface with 49 sx of Ideal Type II cement with 2% CaCl₂. CIP 10:45 A.M., 3-2-68. Waited on cement 12 1/2 hours.

3-3 Waited on cement 1 hour. Drilled 9 7/8" hole to 338'. Dusted to 219' where hole started to make small quantity of water. Had increase in water entry at 255'.
Drilling Data: Drilled with air and soap injection. Air pressures: Min: 150 psig. Max: 200 psig. Rotary speed: 50-60 rpm., Wt. on bit: 6 tons using percussion tool.

3-4 Drilled 9 7/8" hole to 615'.
Drilling Data: Drilling with air and soap water injection. Air pressures: Min: 200 psig. Max: 210 psig. Rotary speed: 60 rpm. Wt. on bit: 8 tons using percussion tool.



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS
WATER ANALYSIS

File RP-3-WA-762

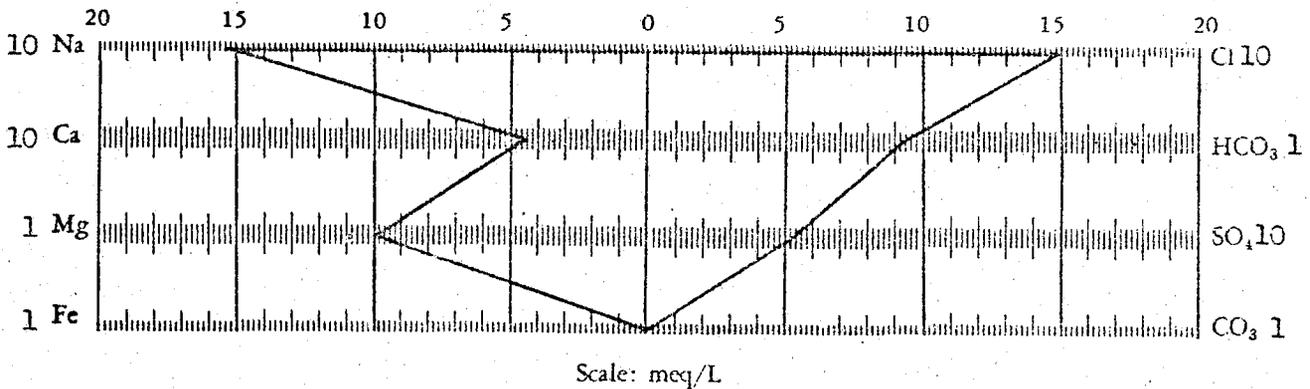
Company BUTTES GAS & OIL COMPANY Well Name FEDERAL NO. 30-B3X Sample No. _____
 Formation CALLVILLE LS. Depth 4100 Sampled From FLOW LINE
 Location SEC 30-T10S-R12W Field WILDCAT County WASHINGTON State UTAH
 Date Sampled 3-27-68 Date Analyzed 3-28-68 Engineer GALLOP

Total Dissolved Solids 12,880 mg/L Calculated Sp. Gr. 1.006 @ 59 °F.

Resistivity 0.71 ohm-meters @ 59 °F. Measured Hydrogen Sulfide Absent
 pH 6.8 @ 59 °F.

*Constituents	meq/L	mg/L	Constituents	meq/L	mg/L
Sodium	<u>153</u>	<u>3,526</u>	Chloride	<u>148</u>	<u>5,250</u>
Calcium	<u>45.9</u>	<u>920</u>	Bicarbonate	<u>9.2</u>	<u>562</u>
Magnesium	<u>10</u>	<u>122</u>	Sulfate	<u>52</u>	<u>2,500</u>
Iron	<u>Absent</u>		Carbonate	<u>Absent</u>	
Barium		(Gray.)	Hydroxide	<u>Absent</u>	

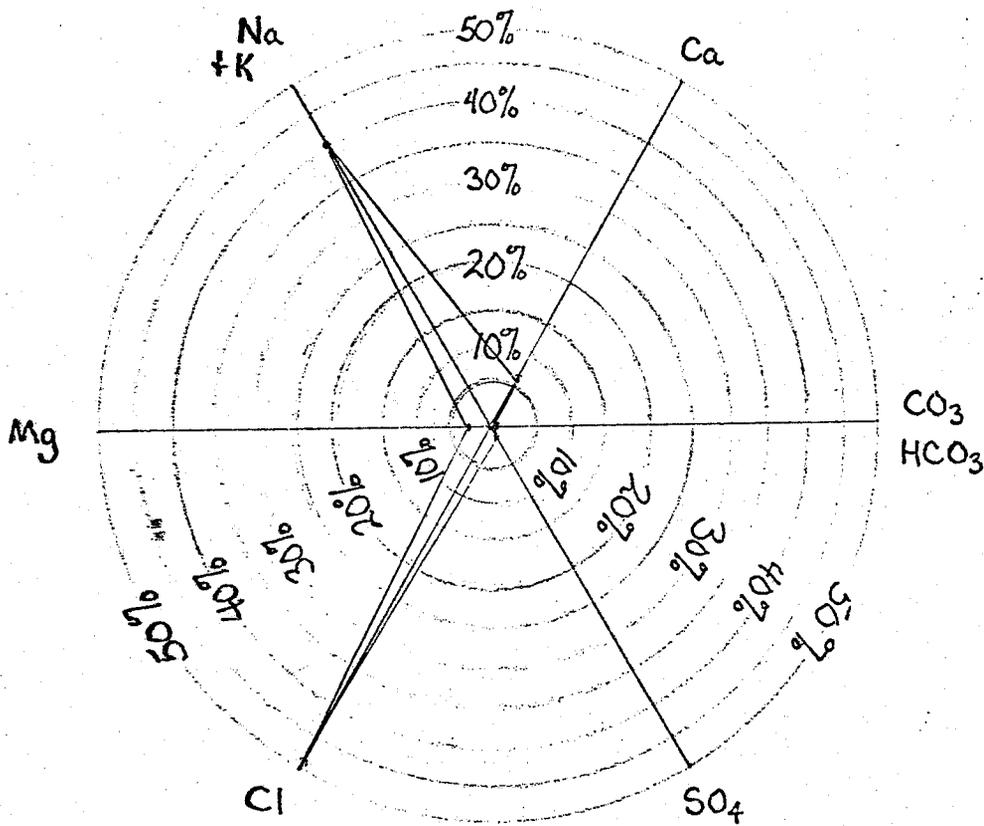
*All analyses except iron determination performed on a filtered sample.



MILLIPORE ANALYSIS

Results by phone 7-2-68
Report will be mailed to you
when received

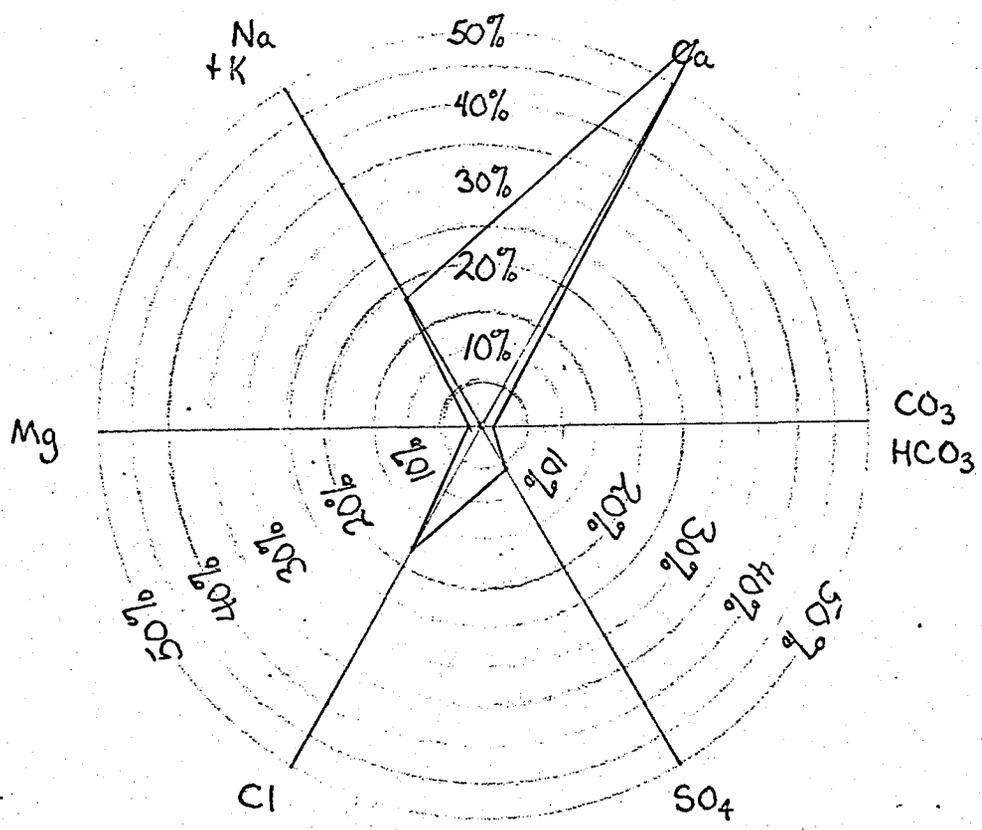
Bull's Fed 30-B3X
Depth 3500'



Baron 17.3

Resistivity 0.115 M²/m, 0.83 @ 75°F

Sta no 30-157
Depth 4100
Core Lab





LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Res. Chem. Engr.

JUNIPER/BUTTES

Area Code 805
325-7475



APR 15 1968

Submitted By: Buttes Gas and Oil Company
2150 Franklin Street
Oakland, Calif. 94612

Date Reported: 4/11/68
Date Received: 4/9/68
Laboratory No: 4695

O.K. TO PAY: Charge to:

Sample Description: 30-3BX, 3460'

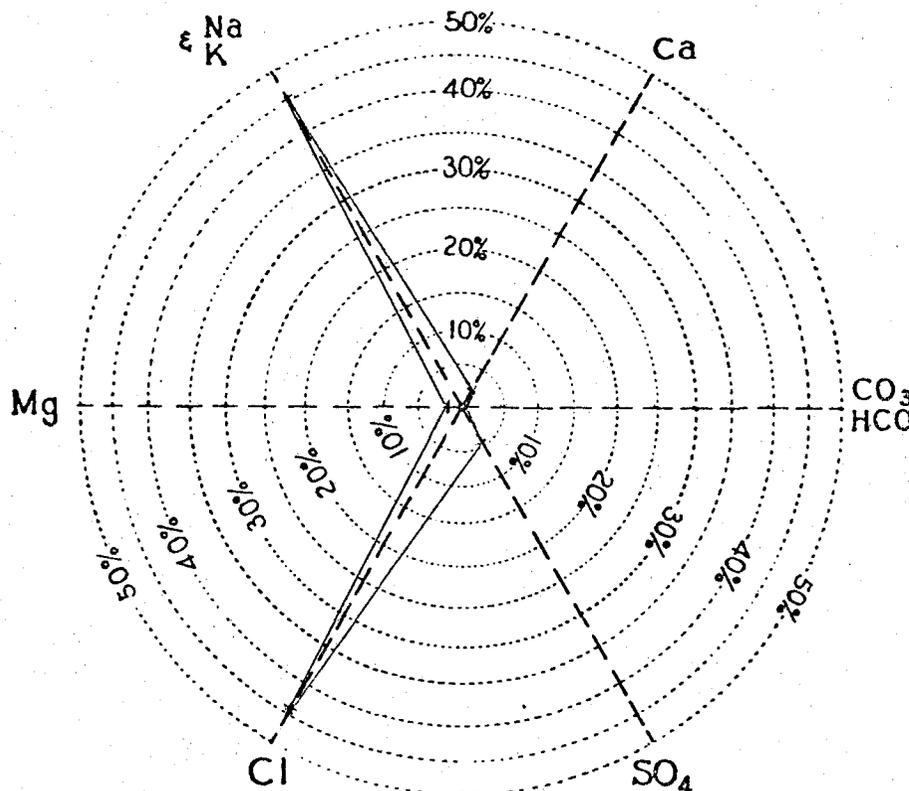
CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	---Reacting Values--- EPM	Percent	Remarks: Resistivity Factor ppm x F = ppm NaCl equiv.
Calcium, Ca	1012.60	x 0.0499	50.63	2.33	" x 0.95 = 962
Magnesium, Mg	506.10	x 0.0821	41.62	1.85	" x 2.00 = 1012
Sodium & Potassium, Na & K	25100.40	x 0.0435	1091.32	45.82	" x 1.00 = 25100

Negative ions	PPM	Eq. Wt. Factor	---Reacting Values--- EPM	Percent	Remarks: Resistivity Factor ppm x F = ppm NaCl equiv.
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 = ---
Bicarbonate, HCO ₃	115.90	x 0.0164	1.90	0.08	" x 0.27 = 31
Sulphate, SO ₄	5600.00	x 0.0208	116.67	4.94	" x 0.50 = 2800
Chloride, Cl	37701.00	x 0.0282	1065.00	44.98	" x 1.00 = 37701
Total solids (summation)	70036.00			100.00	ppm total = 67606 g/g total = 3944 R. @ 80°F Ohms M ² /M = 0.12

Other Constituents	PPM
Boron, B	10.70
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	2.21
pH	7.4

Salinity, NaCl equiv. 3626.1 g/g
 Total Hardness as CaCO₃ 268.80 g/g
 Resistivity OhmsM²/M 0.12 @ 79 °F
 Electrical Conductivity,
 K x 10⁵ 8461.50



BC LABORATORIES

BY J. J. Eglin
J. J. Eglin

BC LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
2150 Franklin Street
Oakland, Calif. 94612

Date Reported: 4/11/68
Date Received: 4/9/68
Laboratory No: 4695

Sample Description: Fed. Sec. 30, 40S, 12W. Washington Utah, 4/3/68
Anderson Field-Formation-top of rise
Salinity 860 g/g, DST #1 4874'-5025'

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt.	--Reacting Values--		Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
		Factor	EPM	Percent		
Calcium, Ca	925.00	x 0.0499	46.25	12.21	" x 0.95 =	879
Magnesium, Mg	197.60	x 0.0821	16.25	4.29	" x 2.00 =	395
Sodium & Potassium, Na & K	2916.60	x 0.0435	126.81	33.50	" x 1.00 =	2917

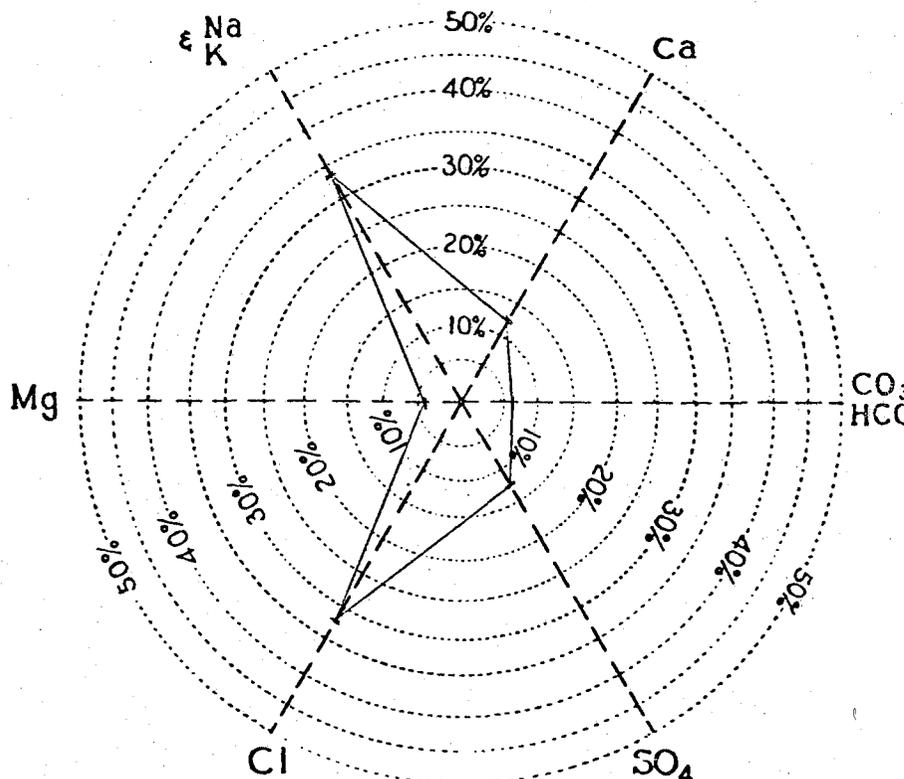
Negative ions		Eq. Wt. Factor	EPM	Percent	Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
Carbonate, CO ₃	---					
Bicarbonate, HCO ₃	1427.40	x 0.0164	23.40	6.18	" x 0.27 =	1385
Sulphate, SO ₄	2300.00	x 0.0208	47.91	12.65	" x 0.50 =	1150
Chloride, Cl	4177.20	x 0.0282	118.00	31.17	" x 1.00 =	4177
Total solids (summation)				100.00	ppm total =	9903
					g/g total =	577.8
					R. @ 80°F Ohms M ² /M =	0.5

Other Constituents

Boron, B	5.45
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	1.02

pH 7.0

Salinity, NaCl equiv. 401.7 g/g
Total Hardness as CaCO₃ 182.2 g/g
Resistivity OhmsM²/M 0.58 @ 79 °F
Electrical Conductivity, K x 10⁵ 1719



BC LABORATORIES

BY *J. J. Eglin*
J. J. Eglin

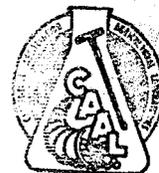
BC LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
2150 Franklin Street
Oakland, Calif. 94612

Date Reported: 4/11/68
Date Received: 4/9/68
Laboratory No: 4695

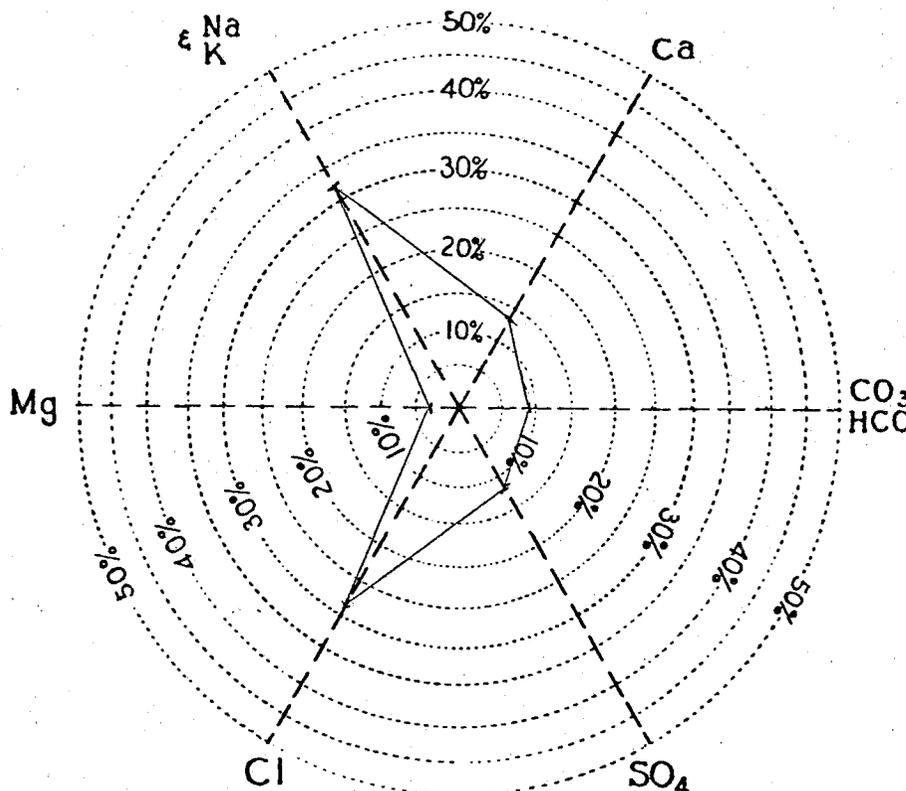
Sample Description: Lease: Federal Anderson Junction, Well No: 30-B3X
Legal Loc: Sec. 30, 40S, 12W, Washington Utah
Formation: Middle DST No:1, Sources of Sample: DST No 1, 4874'-5025'

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	--Reacting Values--		Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
			EPM	Percent		
Calcium, Ca	1082.60	x 0.0499	54.13	13.88	" x 0.95 =	1029
Magnesium, Mg	168.70	x 0.0821	13.87	3.56	" x 2.00 =	337
Sodium & Potassium, Na & K	2920.80	x 0.0435	126.99	32.56	" x 1.00 =	2921

Negative ions						
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 =	---
Bicarbonate, HCO ₃	2177.70	x 0.0164	35.70	9.15	" x 0.27 =	588
Sulphate, SO ₄	2275.00	x 0.0208	47.39	12.16	" x 0.50 =	1137
Chloride, Cl	3961.30	x 0.0282	111.90	28.69	" x 1.00 =	3961
Total solids (summation)	12586.10			100.00	ppm total =	9973
					g/g total =	582
					R. @ 80°F Ohms M ² /M =	0.58

Other Constituents	
Boron, B	6.10
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	1.77
pH	7.1
Salinity, NaCl equiv.	381 g/g
Total Hardness as CaCO ₃	198.3 g/g
Resistivity OhmsM ² /M	0.58 @ 79 °F
Electrical Conductivity, K x 10 ⁵	1741



BC LABORATORIES

BY *J. J. Eglin*
J. J. Eglin

BC LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
2150 Franklin Street
Oakland, Calif. 94612

Date Reported: 4/11/68
Date Received: 4/9/68
Laboratory No: 4695

Sample Description: Fed. 30 B 3X 4880', 129°F @ Surface

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

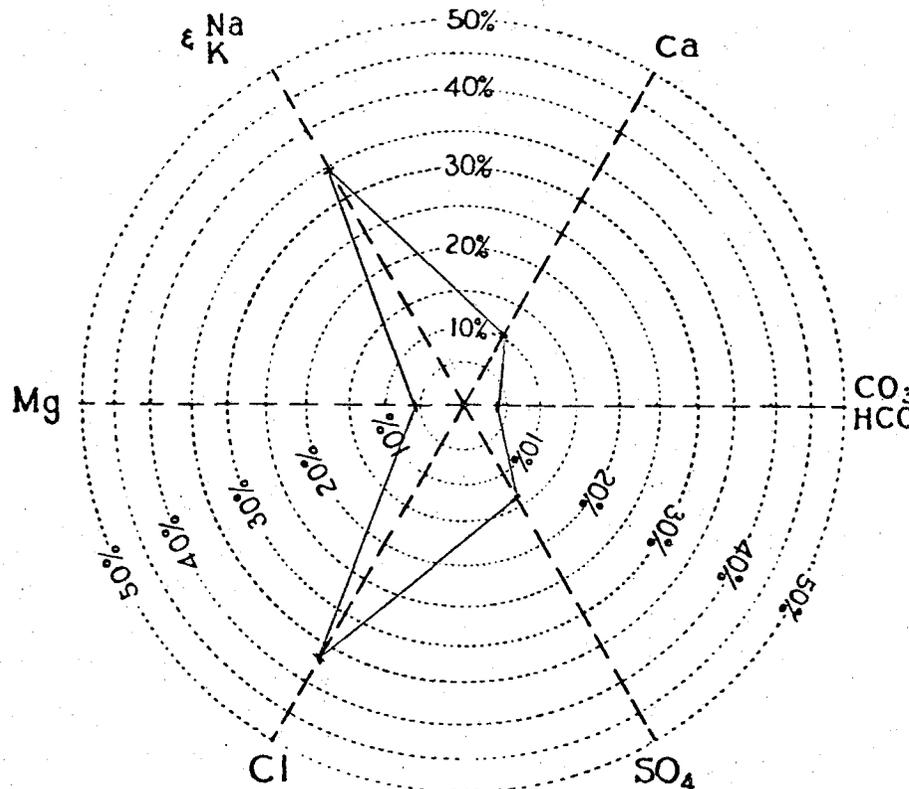
Positive ions	PPM	Eq. Wt. Factor	--Reacting Values-- EPM	Percent	Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
Calcium, Ca	807.60	x 0.0499	40.38	10.35	" x 0.95 =	767
Magnesium, Mg	246.20	x 0.0821	20.25	5.19	" x 2.00 =	492
Sodium & Potassium, Na & K	3091.00	x 0.0435	134.39	34.46	" x 1.00 =	3091

Negative ions	PPM	Eq. Wt. Factor	---	---	" x	---	
Carbonate, CO ₃	---	x 0.0333	---	---	x 1.26 =	---	
Bicarbonate, HCO ₃	954.70	x 0.0164	15.65	4.01	" x 0.27 =	258	
Sulphate, SO ₄	2610.00	x 0.0208	54.37	13.94	" x 0.50 =	1305	
Chloride, Cl	4425.00	x 0.0282	125.00	32.05	" x 1.00 =	4425	
Total solids (summation) 12134.50					100.00	ppm total =	10338
						g/g total =	603.2
						R. @ 80°F Ohms M ² /M =	0.55

Other Constituents

Boron, B	5.90
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	2.26

pH	7.2
Salinity, NaCl equiv.	425.6 g/g
Total Hardness as CaCO ₃	176.7 g/g
Resistivity OhmsM ² /M	0.56 @ 79 °F
Electrical Conductivity, K x 10 ⁵	1792



B C LABORATORIES

BY *J. J. Eglin*
J. J. Eglin

BC LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

CHEMICAL ANALYSES - AGRICULTURAL - PETROLEUM

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
2150 Franklin Street
Oakland, Calif. 94612

Date Reported: 4/11/68
Date Received: 4/9/68
Laboratory No: 4695

Sample Description: Water Sample at 3851, 30- 3BX

CHEMICAL WATER ANALYSIS----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	--Reacting Values--		Remarks: Resistivity Factor ppm x F = ppm NaCl equiv.
			EPM	Percent	
Calcium, Ca	965.00	x 0.0499	48.25	11.85	" x 0.95 = 917
Magnesium, Mg	205.30	x 0.0821	16.88	4.15	" x 2.00 = 411
Sodium & Potassium, Na & K	3185.50	x 0.0435	138.50	34.00	" x 1.00 = 3186

Negative ions

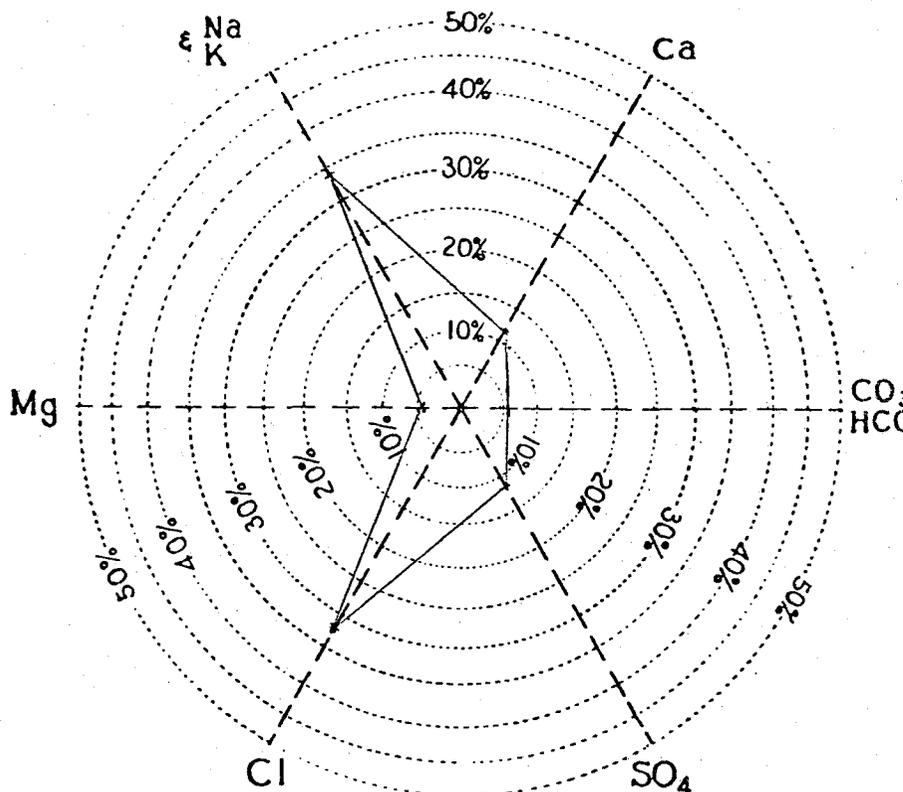
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 = ---
Bicarbonate, HCO ₃	1421.30	x 0.0164	23.30	5.72	" x 0.27 = 384
Sulphate, SO ₄	2325.00	x 0.0208	48.43	11.89	" x 0.50 = 1163
Chloride, Cl	4669.30	x 0.0282	131.90	32.39	" x 1.00 = 4669
Total solids (summation)	12771.40			100.00	ppm total = 10730 g/g total = 626 R. @ 80°F Ohms M ² /M = 0.53

Other Constituents

Boron, B	5.65
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	1.06

pH 6.8

Salinity, NaCl equiv. 449 g/g
Total Hardness as CaCO₃ 189.9 g/g
Resistivity OhmsM²/M 0.52 @ 79 °F
Electrical Conductivity,
K x 10⁵ 1909.7



BC LABORATORIES

BY

J. J. Eglin
J. J. Eglin



LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
2150 Franklin Street
Oakland, Calif. 94612

Date Reported: 4/11/68
Date Received: 4/9/68
Laboratory No: 4695

Sample Description: Fed. 30 B 3X, 3-23-68, 3530'

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	--Reacting Values--		Remarks: Resistivity Factor
			EPM	Percent	ppm x F = ppm NaCl equiv.
Calcium, Ca	332.60	x 0.0499	16.63	8.06	" x 0.95 = 316
Magnesium, Mg	100.30	x 0.0821	8.25	4.00	" x 2.00 = 201
Sodium & Potassium, Na & K	1800.00	x 0.0435	78.26	37.94	" x 1.00 = 1800

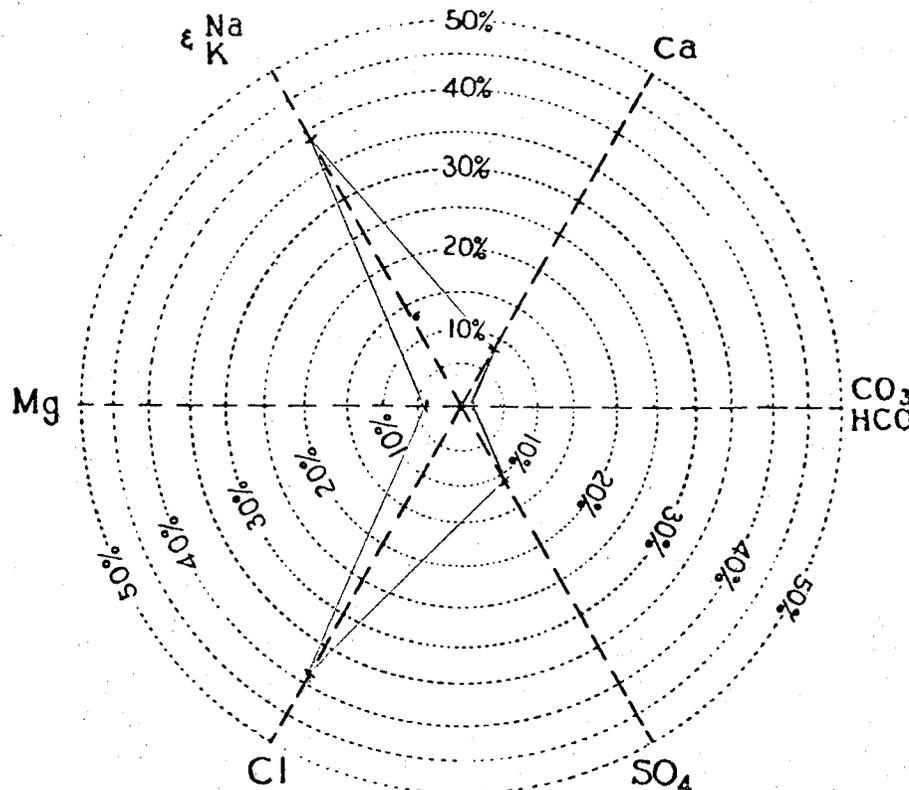
Negative ions					
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 = ---
Bicarbonate, HCO ₃	140.30	x 0.0164	2.30	1.11	" x 0.27 = 38
Sulphate, SO ₄	1075.00	x 0.0208	22.39	10.86	" x 0.50 = 53
Chloride, Cl	2777.10	x 0.0282	78.45	38.03	" x 1.00 = 2777
Total solids (summation)	7125.30			100.00	ppm total = 5670 g/g total = 330.8 R. @ 80°F Ohms M ² /M = 0.90

Other Constituents

Boron, B 0.57
Silica, SiO₂
Iron, Fe
Aluminum, Al
Nitrate, NO₃ 1.15

pH 7.6

Salinity, NaCl equiv. 267.1 g/g
Total Hardness as CaCO₃ 72.5 g/g
Resistivity OhmsM²/M 0.84 @ 79 °F
Electrical Conductivity,
K x 10⁵ 1196



B C LABORATORIES

BY *J. J. Eglin*
J. J. Eglin



Submitted By: Buttes Gas and Oil Company
3132 - 18th Street
Bakersfield, Calif.

Date Reported: 4/8/68
Date Received: 3/25/68
Laboratory No: 4648-A

Sample Description: 3500

Attention: Mr. Cecil Davis

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	--Reacting Values--		Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
			EPM	Percent		
Calcium, Ca	5920.0	x 0.0499	296.00	6.52	" x 0.95 =	5624
Magnesium, Mg	1434.9	x 0.0821	118.00	2.60	" x 2.00 =	2870
Sodium & Potassium, Na & K	42708.7	x 0.0435	1856.90	40.88	" x 1.00 =	42709

Negative ions						
Carbonate, CO ₃	--	x 0.0333	--	--	" x 1.26 =	--
Bicarbonate, HCO ₃	366.0	x 0.0164	6.00	0.13	" x 0.27 =	99
Sulphate, SO ₄	2640.0	x 0.0208	54.90	1.22	" x 0.50 =	1320
Chloride, Cl	78234.0	x 0.0282	2210.00	48.65	" x 1.00 =	78234
Total solids (summation)				100.00	ppm total =	130856
					g/g total =	7634.54
					R. @ 80°F Ohms M ² /M =	.083

Other Constituents	
Boron, B	17.3
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	Less than 0.1

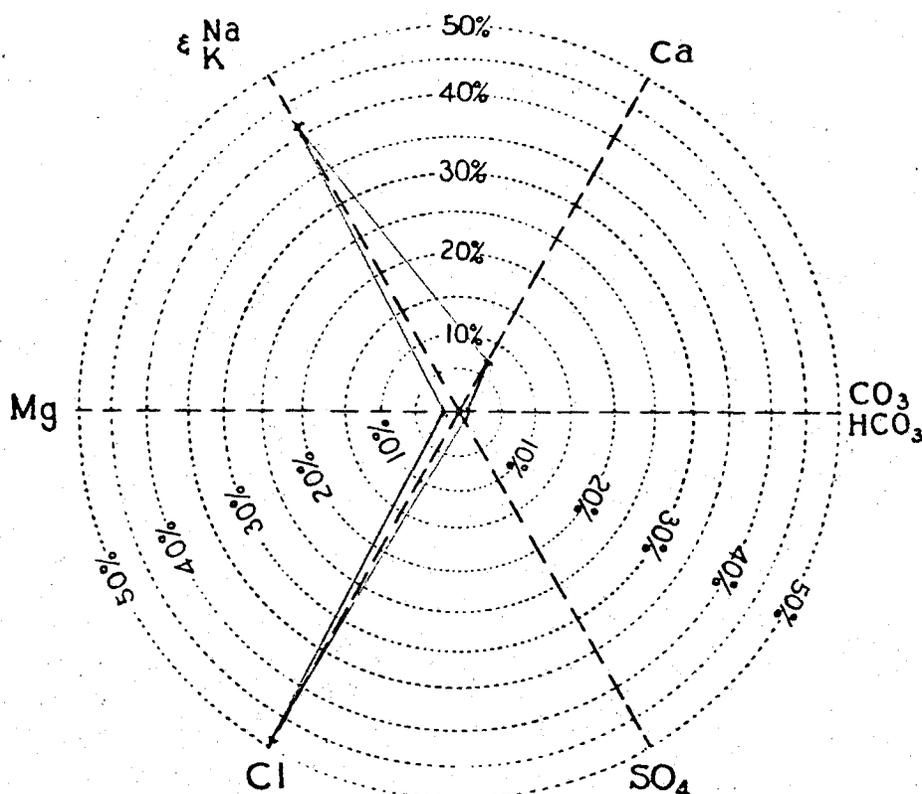
pH 6.8

Salinity, NaCl equiv. 7524.5 g/g

Total Hardness as CaCO₃ 1206.7 g/g

Resistivity OhmsM²/M .083 @ 75 OF

Electrical Conductivity, K x 10⁵ 11,960



B C LABORATORIES

BY *J. J. Eglin*
J. J. Eglin



Submitted By: Buttes Gas and Oil Company
3132 - 18th Street
Bakersfield, Calif.

Date Reported: 3/29/68
Date Received: 3/25/68
Laboratory No: 4648

Sample Description: Fed. 30 B 3X 1900-2000

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	--Reacting Values-- EPM	Percent	Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
Calcium, Ca	498.0	x 0.0499	24.90	25.5	" x 0.95 =	473
Magnesium, Mg	73.0	x 0.0821	6.00	6.1	" x 2.00 =	146
Sodium & Potassium, Na & K	413.3	x 0.0435	17.97	18.4	" x 1.00 =	413

Negative ions	PPM	Eq. Wt. Factor	--Reacting Values-- EPM	Percent	Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 =	---
Bicarbonate, HCO ₃	136.6	x 0.0164	2.24	2.4	" x 0.27 =	37
Sulphate, SO ₄	2200.0	x 0.0208	45.83	46.8	" x 0.50 =	1100
Chloride, Cl	28.3	x 0.0282	0.80	0.8	" x 1.00 =	28
Total solids (summation) 3349.2				100.00	ppm total =	2197
					g/g total =	128
					R. @ 80°F Ohms M ² /M =	2.5

Other Constituents

Boron, B	0.35
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	Less than 0.1

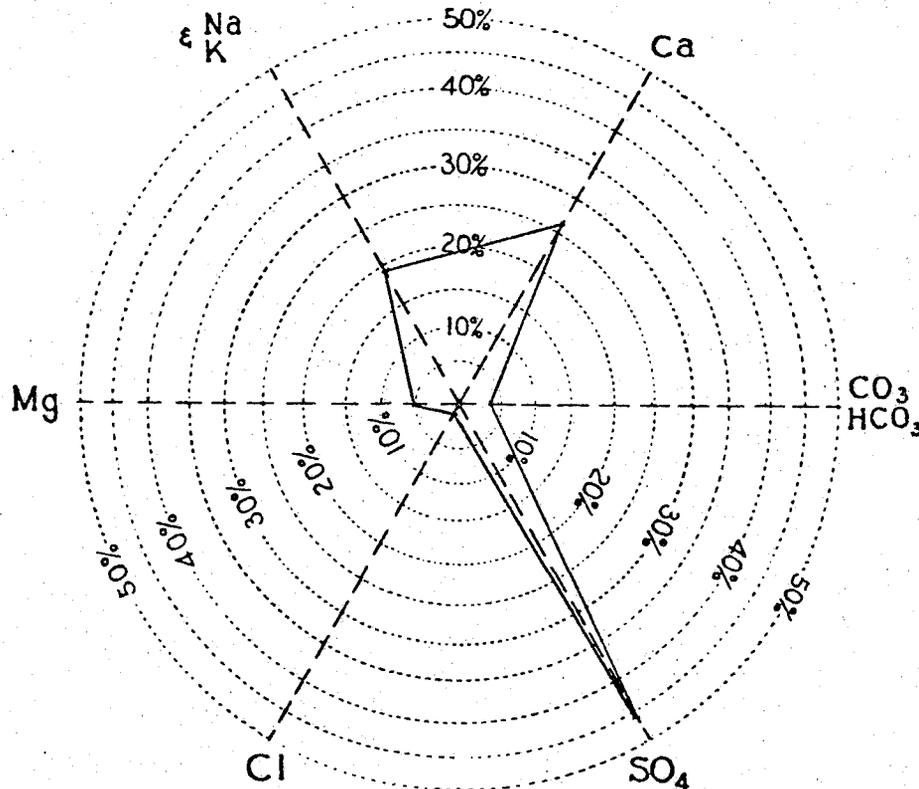
pH 7.5

Salinity, NaCl equiv. 2.72 g/g

Total Hardness as CaCO₃ 90.10g/g

Resistivity OhmsM²/M 2.5 @ 70 °F

Electrical Conductivity, K x 10⁵ 241.2



BC LABORATORIES

BY J. J. Eglin
J. J. Eglin



Submitted By: Buttes Gas and Oil Company
3132 - 18th Street
Bakersfield, Calif.

Date Reported: 3/29/68
Date Received: 3/25/68
Laboratory No: 4648

Sample Description: Fed. 30 - B 3X 3312

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

<u>Positive ions</u>	PPM	Eq. Wt. Factor	--Reacting Values-- EPM	Percent	Remarks: Resistivity Factor ppm x F = ppm NaCl equiv.
Calcium, Ca	560.0	x 0.0499	28.00	22.34	" x 0.95 = 532
Magnesium, Mg	138.6	x 0.0821	11.40	9.10	" x 2.00 = 277
Sodium & Potassium, Na & K	535.4	x 0.0435	23.28	18.56	" x 1.00 = 535

<u>Negative ions</u>	PPM	Eq. Wt. Factor	EPM	Percent	Remarks: Resistivity Factor ppm x F = ppm NaCl equiv.
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 = ---
Bicarbonate, HCO ₃	280.6	x 0.0164	4.60	3.66	" x 0.27 = 76
Sulphate, SO ₄	2437.5	x 0.0208	50.78	40.52	" x 0.50 = 1219
Chloride, Cl	258.4	x 0.0282	7.30	5.82	" x 1.00 = 258
				100.00	ppm total = 2897
Total solids (summation) 4210.5					g/g total = 169
					R. @ 80°F Ohms M ² /M = 1.9

Other Constituents

Boron, B 0.80

Silica, SiO₂ _____

Iron, Fe _____

Aluminum, Al _____

Nitrate, NO₃ Less than 0.1

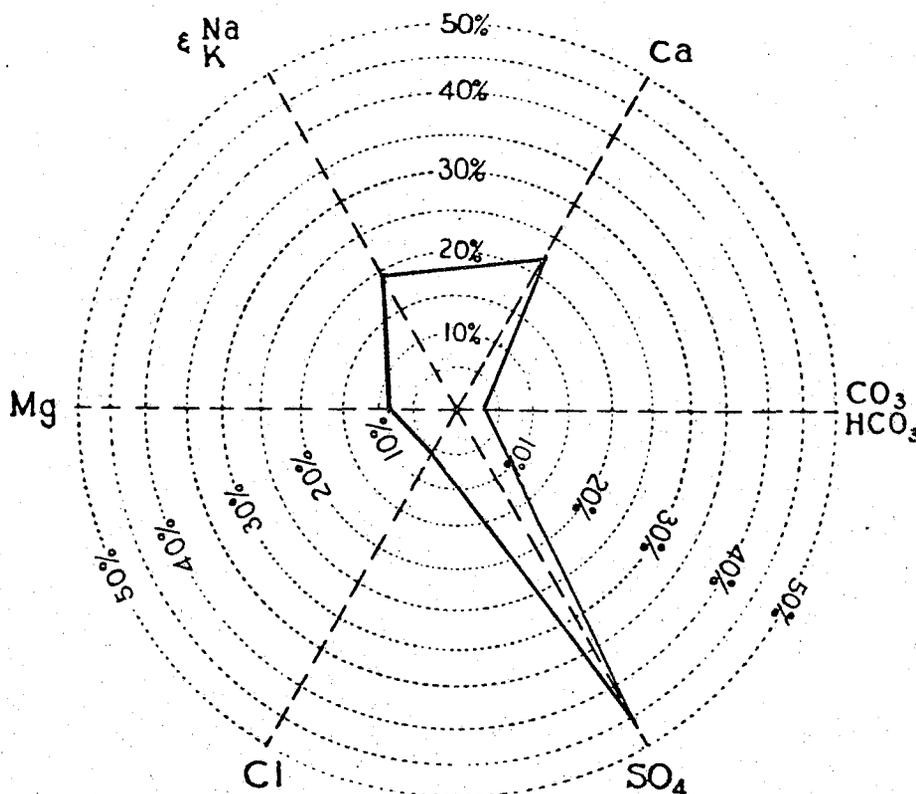
pH 7.6

Salinity, NaCl equiv. 246.2 g/g

Total Hardness as CaCO₃ 114.83 g/g

Resistivity OhmsM²/M 1.8 @ 70 °F

Electrical Conductivity, K x 10⁵ 555.6



B C LABORATORIES

BY J. J. Eglin
J. J. Eglin

B C LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
3132 - 18th Street
Bakersfield, Calif.

Date Reported: 3/29/68
Date Received: 3/25/68
Laboratory No: 4648

Sample Description: Fed 30, B 3X 3-17-68, 2900-3000

CHEMICAL WATER ANALYSIS----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	--Reacting Values-- EPM	Percent	Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
Calcium, Ca	574.0	x 0.0499	28.70	34.9	" x 0.95 =	545.3
Magnesium, Mg	127.7	x 0.0821	10.50	12.8	" x 2.00 =	255.4
Sodium & Potassium, Na & K	39.8	x 0.0435	1.73	2.3	" x 1.00 =	39.8

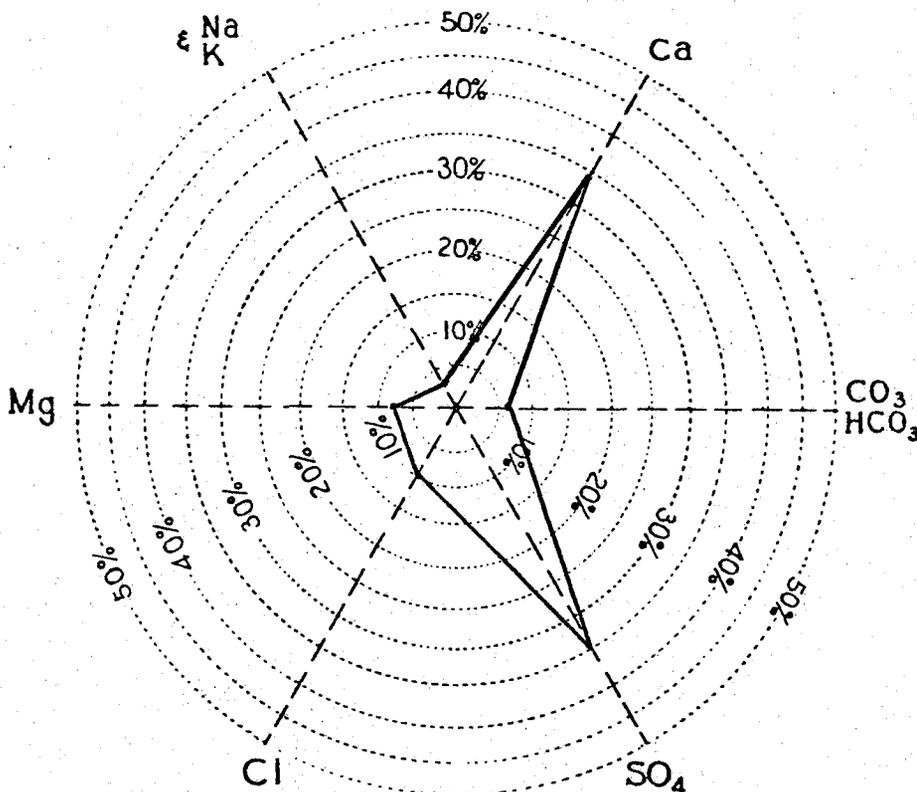
Negative ions

Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 =	---
Bicarbonate, HCO ₃	301.3	x 0.0164	4.94	5.8	" x 0.27 =	81.4
Sulphate, SO ₄	1362.5	x 0.0208	28.39	34.6	" x 0.50 =	681.3
Chloride, Cl	269.0	x 0.0282	7.60	9.6	" x 1.00 =	269.0
Total solids (summation)	2680			100.00	ppm total =	1872.2
					g/g total =	109.2
					R. @ 80°F Ohms M ² /M =	3.0

Other Constituents

Boron, B	1.62
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃	Less than 0.1

pH	7.5
Salinity, NaCl equiv.	25.9 g/g
Total Hardness as CaCO ₃	114.27 g/g
Resistivity Ohms M ² /M	3.0 @ 70°F
Electrical Conductivity, K x 10 ⁵	466.1



B C LABORATORIES

BY *J. J. Eglin*
J. J. Eglin

B C LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
3132 - 18th Street
Bakersfield, Calif.

Date Reported: 3/29/68
Date Received: 3/25/68
Laboratory No: 4648

Sample Description: Willard Pease, Fed. #1, direct out of pumping well *Sampled Approx 3/20/68*

CHEMICAL WATER ANALYSIS----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	--Reacting Values--		Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
			EPM	Percent		
Calcium, Ca	5590.0	x 0.0499	279.50	7.8	" x 0.95 =	5311
Magnesium, Mg	1331.5	x 0.0821	109.50	3.1	" x 2.00 =	2663
Sodium & Potassium, Na & K	32313.4	x 0.0435	1404.93	39.1	" x 1.00 =	32313

Negative ions

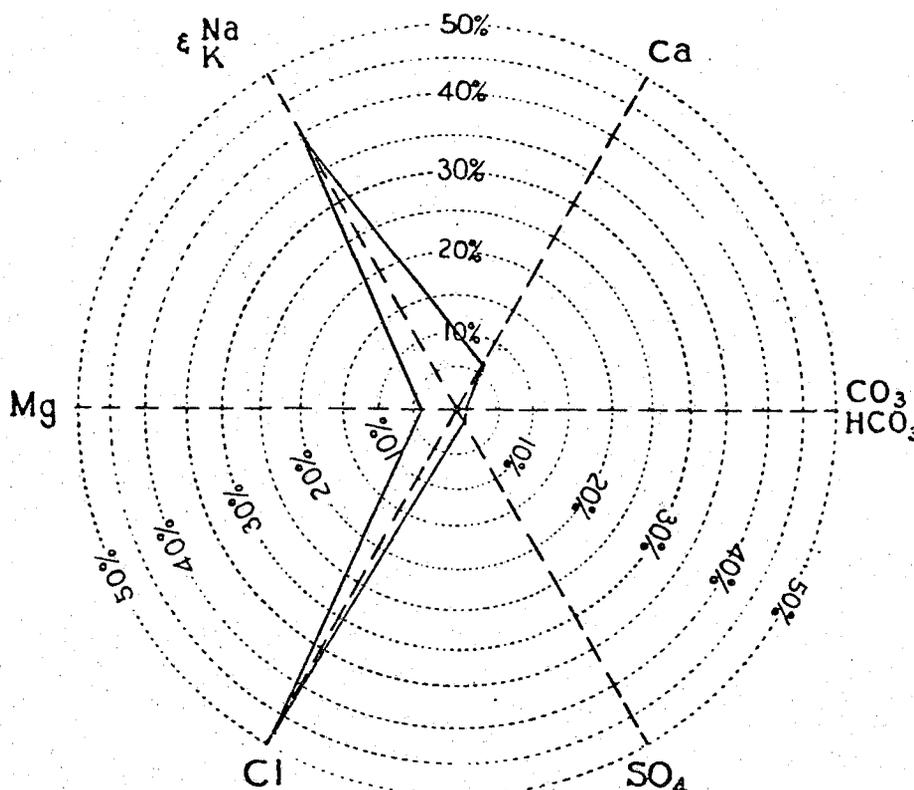
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 =	---
Bicarbonate, HCO ₃	347.1	x 0.0164	5.70	0.2	" x 0.27 =	94
Sulphate, SO ₄	2075.0	x 0.0208	43.20	1.2	" x 0.50 =	1038
Chloride, Cl	61773.0	x 0.0282	1745.00	48.6	" x 1.00 =	61773
Total solids (summation) 103,430.6			100.00		ppm total =	103192
					g/g total =	6021
					R. @ 80°F Ohms M ² /M =	0.07

Other Constituents

Boron, B 19.5
Silica, SiO₂
Iron, Fe
Aluminum, Al
Nitrate, NO₃ Less than 0.1

pH 7.1

Salinity, NaCl equiv. 5940 g/g
Total Hardness as CaCO₃ 1133.9 g/g
Resistivity OhmsM²/M 0.07 @ 70 °F
Electrical Conductivity,
K x 10⁵ 13,750



B C LABORATORIES

BY

J. J. Eglin
J. J. Eglin

LABORATORIES

SOIL - WATER
 18th AVENUE
 BAKERSFIELD, CALIFORNIA

J. J. EGLIN
 Reg. Chem. Engr.

Area Code 805
 325-7475



By: Buttes Gas and Oil Company
 3132 - 18th Street
 Bakersfield, Calif.

Date Reported: 3/29/68
 Date Received: 3/25/68
 Laboratory No: 4648

Description: Fed 30 B 3X 1000-1100

CHEMICAL WATER ANALYSIS-----TICKELL DIAGRAM

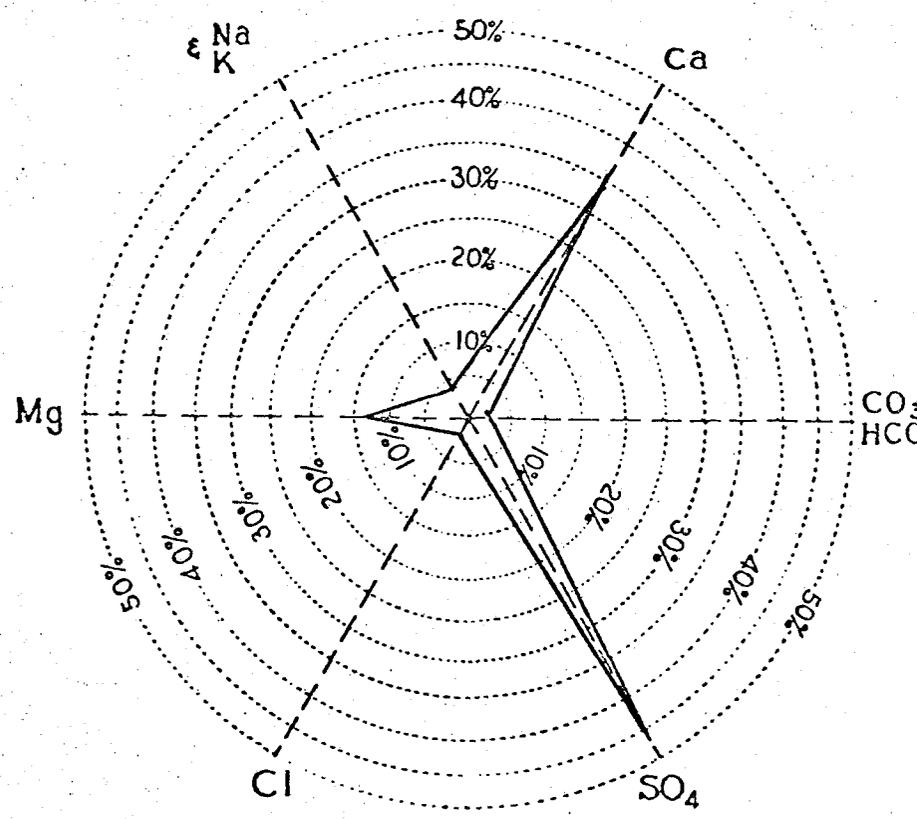
Positive ions	PPM	Eq. Wt. Factor	--Reacting Values--		Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
			EPM	Percent		
Ca	640.0	x 0.0499	32.00	34.4	" x 0.95 =	608
Mg	148.4	x 0.0821	12.20	13.1	" x 2.00 =	297
Potassium, Na & K	54.3	x 0.0435	2.36	2.5	" x 1.00 =	54

Negative ions	PPM	Eq. Wt. Factor	EPM	Percent	Remarks: ppm x F =	Resistivity Factor ppm NaCl equiv.
CO ₃	---	x 0.0333	---	---	" x 1.26 =	---
HCO ₃	128.1	x 0.0164	2.10	2.3	" x 0.27 =	35
SO ₄	2047.5	x 0.0208	42.66	45.8	" x 0.50 =	1024
Cl	63.7	x 0.0282	1.80	1.9	" x 1.00 =	64

Solids (summation) 3082.0
 ppm total = 2082
 g/g total = 121.5
 R. @ 80°F Ohms M²/M = 2.8

Other Constituents

SiO ₂	0.30
Al	
NO ₃ Less than	0.1
	7.6
CaCl equiv.	6.06 g/g
Express as CaCO ₃	128.85 g/g
Ohms M ² /M @ 70 °F	2.8
Conductivity,	354.8



J. J. Eglin

LABORATORIES

OIL - CORES - SOIL - WATER

3016 UNION AVENUE
BAKERSFIELD, CALIFORNIA

J. J. EGLIN
Reg. Chem. Engr.

Area Code 805
325-7475



Submitted By: Buttes Gas and Oil Company
3132 - 18th Street
Bakersfield, Calif.

Date Reported: 3/29/68
Date Received: 3/25/68
Laboratory No: 4648

Sample Description: Fed. 30 B 3X 1900-2000

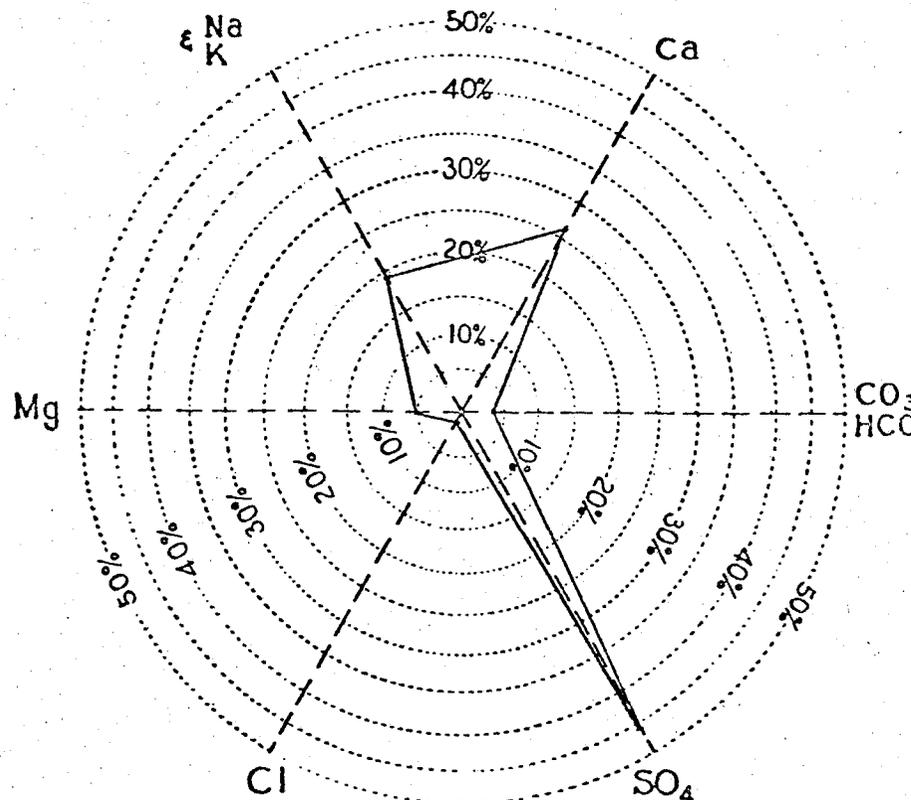
CHEMICAL WATER ANALYSIS----TICKELL DIAGRAM

Positive ions	PPM	Eq. Wt. Factor	---Reacting Values---		Remarks: Resistivity Factor ppm x F = ppm NaCl equiv.
			EPM	Percent	
Calcium, Ca	498.0	x 0.0499	24.90	25.5	" x 0.95 = 473
Magnesium, Mg	73.0	x 0.0821	6.00	6.1	" x 2.00 = 146
Sodium & Potassium, Na & K	413.3	x 0.0435	17.97	18.4	" x 1.00 = 413

Negative ions					
Carbonate, CO ₃	---	x 0.0333	---	---	" x 1.26 = ---
Bicarbonate, HCO ₃	136.6	x 0.0164	2.24	2.4	" x 0.27 = 37
Sulphate, SO ₄	2200.0	x 0.0208	45.83	46.8	" x 0.50 = 1100
Chloride, Cl	28.3	x 0.0282	0.80	0.8	" x 1.00 = 28
Total solids (summation)	3349.2			100.00	ppm total = 2197 g/g total = 128 R. @ 80°F Ohms M ² /M = 2.5

Other Constituents	
Boron, B	0.35
Silica, SiO ₂	
Iron, Fe	
Aluminum, Al	
Nitrate, NO ₃ Less than	0.1

pH	7.5
Salinity, NaCl equiv.	2.72 g/g
Total Hardness as CaCO ₃	90.10g/g
Resistivity OhmsM ² /M	2.5 @ 70 °F
Electrical Conductivity, K x 10 ⁵	241.2



B C LABORATORIES

BY *J. J. Eglin*
J. J. Eglin

MAR 21 1968



U. S. POSTAGE

~~Utah State Land Board
State Capitol Building
Salt Lake City, Utah~~

Attention: Mr. Cleon B. Feight

*Oil & Gas Conservation
1588 St. No. Temple
SLC*



U. S. POSTAGE

~~Utah State Land Board
State Capitol Building
Salt Lake City, Utah~~

Attention: Mr. Cleon B. Feight

*Oil & Gas Conservation
1588 St. No. Temple
SLC*



U. S. POSTAGE

~~Utah State Land Board
State Capital Building
Salt Lake City, Utah~~

1588 St. No. Temple

Attn: Mr. C. B. Feight

SLC

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

Mar 17, 1968

Drilling Depth: 2964'

Day 18

Feet drilled: 160' in 16 1/2 hours

March 16, 1968 Day 17

Drilling Depth: 2804'

Feet drilled: 141' in 19 hours.

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

March 18, 1968 Day 19

Drilling Depth: 3110'

Feet Drilled: 146' in 22 hours.

MAR 21 1968

DEPTH: 3312'

DEVIATION: 1⁰



Advise correspondents or publishers of your correct address

Utah State Land Board
State Capitol Bldg.
Salt Lake City, Utah

Advise correspondents or publishers of your correct address

Attn: Cleon B. Feight

1588 West No. Temple
Slc

Advise correspondents or publishers of your correct address



Utah State Land Board
State Capitol Bldg.
Salt Lake City, Utah

Attn: Mr. Cleon B. Feight

1188 West No. Temple
Slc

Advise correspondents or publishers of your correct address



Utah State Land Board
State Capitol Bldg.
Salt Lake City, Utah

Attn: Mr. Cleon B. Feight

1588 West No. Temple
Slc

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

March 25, 1968 Day 26

Depth: 3565'.

Cored 18' in 5 hours.

March 26, 1968 Day 27

Depth: 3851'.

Drilled 286' in 18 1/2 hours.

MAR 28 1968

ANDERSON JUNCTION
Federal No. 30-B3X
3-23-68 - Day 24

Depth; 3406'. Drilled 21'. Cored 5'.
Core No. 1 3380-3384 Cut 4'-Rec. 4'
3-24-68 - Day 25 Core No. 2 3405-3406 1/2' Cut 1 1/2'
Rec. 1'

Depth: 3547'. Drilled 141'
Cir. & wait on Core Head.

MAR 28 1968

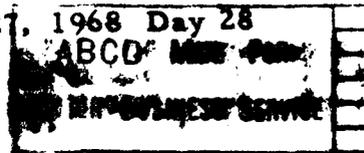
ANDERSON JUNCTION
Buttes-Federal No. 30-B3X March 22, 1968 Day 23

Depth: 3380'.

Feet Drilled: 68 feet in 5 1/4 hours.

ANDERSON JUNCTION

Buttes-Federal No. 30-B3X March 27, 1968 Day 28



Depth: 4034'.

Drilled 183' in 12 3/4 hours.

MAR 29 1968

ANDERSON JUNCTION

Buttes-Federal No. 30-B3X March 28, 1968 Day 29

Depth: 4391'.

Drilled 357 feet in 19 hours.

APR 1 1968

ANDERSON JUNCTION

Buttes-Federal No. 30-B3X

3/30/68 - Day 31

Depth: 4547'

Drilled 0'

3/31/68 - Day 32

Depth: 4752'

Drilled 205' in 16 hours.

4/1/68 - Day 33

Depth: 4991'

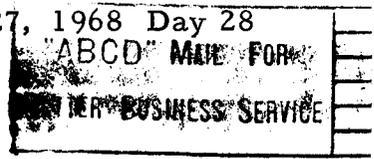
Drilled 239' in ----

APR 3 1968

ANDERSON JUNCTION

Buttes-Federal No. 30-B3X

March 27, 1968 Day 28



Depth: 4034'.

Drilled 183' in 12 3/4 hours.

MAR 29 1968

ANDERSON JUNCTION

Buttes-Federal No. 30-B3X

March 28, 1968 Day 29

Depth: 4391'.

Drilled 357 feet in 19 hours.

APR 1 1968

ANDERSON JUNCTION

Buttes-Federal No. 30-B3X

3/30/68 - Day 31

Depth: 4547'

Drilled 0'

3/31/68 - Day 32

Depth: 4752'

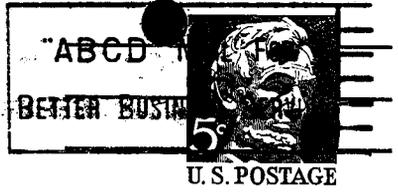
Drilled 205' in 16 hours.

4/1/68 - Day 33

Depth: 4991'

Drilled 239' in ----

APR 3 1968



~~Utah State Land Board
State Capitol Building
Salt Lake City, Utah~~

APR 2 1968

Attn: Mr. Cleon B. Feight

1588 W No Temple

84/16

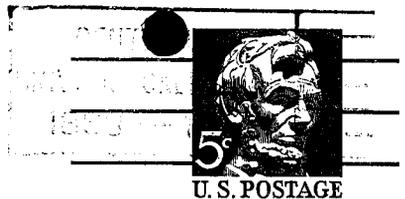


~~Utah State Land Board
State Capitol Building
Salt Lake City, Utah~~

Attn: Mr. Cleon B. Feight

1588 West No. Temple

Slc



~~Utah State Land Board
State Capitol Building
Salt Lake City, Utah~~

Attn: Mr. Cleon B. Feight

1588 No. West Temple

Slc

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

March 29, 1968 Day - 30

Depth: 4547'.

Drilled 164' in 16 3/4 hours.

Cored 2 feet.

APR 2 1968

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

April 2, 1968 - Day 34

Depth: 5025'
Drilled 34' in ---

ZIP CODE

ANDERSON JUNCTION
Buttes = Federal No. 30-B3X
April 3, 1968 - Day 35

Depth: 5025'
Drilled: 0'

APR

Sharon

PH

BUTTES GAS & OIL CO.

2150 FRANKLIN STREET
OAKLAND, CALIFORNIA 94612

(415) 893-0364

April 4, 1968

Utah Oil & Gas Conservation Commission
348 E. South Temple
Salt Lake City, Utah

Gentlemen:

Enclosed please find copies of Core Analyses results
and water analyses on the Federal No. 30-B3X.

Very truly yours,

Cecil C. Davis
Cecil C. Davis
Staff Engineer

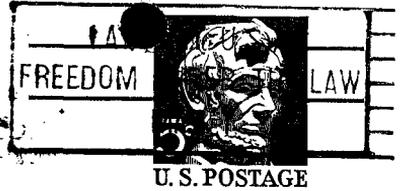
CCD:sr



Utah State Land Board
State Capitol Building
Salt Lake City, Utah

Attn: Mr. Cleon B. Feight

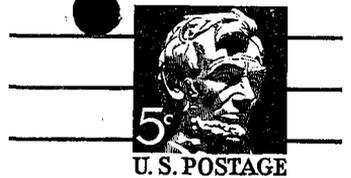
*1588 W no Feight
84116*



Utah State Land Board
State Capitol Building
Salt Lake City, Utah

Attn: Mr. Cleon B. Feight

*1588 W no Feight
84116*



Utah State Land Board
~~State Capitol Bldg.~~
Salt Lake City, Utah

Attn: Mr. Cleon B. Feight

*1588 W no Feight
84116*

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X
April 4, 1968 - Day 36

Depth: 5020' (corrected)
Drilled 0'

APR 8 1968

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X
April 5, 1968

Depth 5056'.
Drilled 36' in 5½ hours.

APR 8 1968

ANDERSON JUNCTION - Federal No. 30-B3X

April 6, 1968 Day 38

Depth: 5355'. Drilled 299 feet in 23½ hours.

April 7, 1968. Day 39

Depth: 5580'. Drilled 225 feet in 18½ hours.

April 8, 1968 Day 40

Depth: 5606'. Drilled 26 feet in 3 hours.

APR 11 1968

David

BUTTES GAS & OIL CO.

2150 FRANKLIN STREET
OAKLAND, CALIFORNIA 94612

(415) 893-0364

April 10, 1968

Mr. Cleon B. Feight
Utah State Land Board
State Capitol Building
Salt Lake City, Utah

Dear Mr. Feight:

Enclosed please find Chemical Water Analysis for
the Buttes-Federal No. 30-B3X Well, Anderson
Junction, Utah.

Sincerely,



C. C. Davis
Staff Engineer

CCD:ras
Enclosure



U. S. POSTAGE

1588 W No Temple

Utah State Land Board

~~State Capitol Building~~

Salt Lake City, Utah

84116

Attn: Mr. Cleon B. Feight



U. S. POSTAGE

Utah State Land Board

~~State Capitol Building~~

Salt Lake City, Utah

Attn: Cleon B. Feight

1588 West No Temple

Slc.

30-33

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

April 12, 1968 - Day 44

Total Depth: 5606'.

Plugging back to 3470'.

APR 15 1968

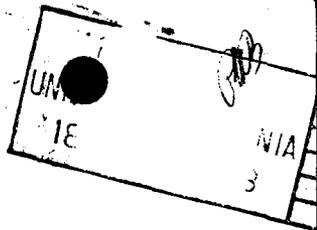
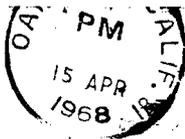
APR 15 1968

ANDERSON JUNCTION
Federal No. 30-B3X

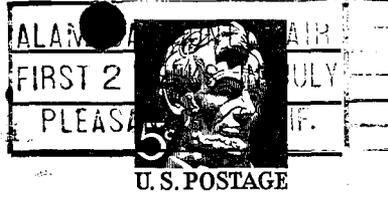
April 13, 1968 - Day 45

Plugged depth: 3465'. Operations Suspended.

Released rig at 10:00 A.M. 4-13-68.



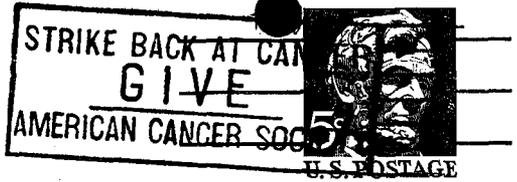
APR 18 1968



Utah State Land Board
State Capitol Building
Salt Lake City, Utah

Attn: Mr. Cleon B. Feight

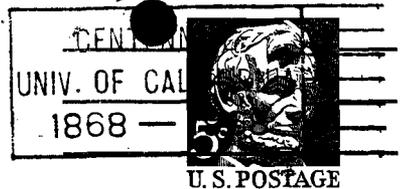
*1588 W North Temple
84116*



Utah State Land Board
State Capitol Building
Salt Lake City, Utah

Attn: Mr. Cleon B. Feight

*1588 W North Temple
84116*



Utah State Land Board
~~State Capitol Building~~
Salt Lake City, Utah

1588 W North Temple
Attn: Mr. Cleon B. Feight
84116

ANDERSON JUNCTION
Buttes-Federal No. 30-B3X

April 9, 1968 - Day 41

Depth: 5606'. Drilled o'. Logging.

APR 15 1968
APR 15 1968

ANDERSON JUNCTION - Buttes-Federal No. 30-B3X

April 10, 1968 - Day 42

Depth: 5606'. T.D.

Setting Plugs.

APR 15 1968
APR 15 1968

ANDERSON JUNCTION PROSPECT
Buttes-Federal No. 30-B3X

April 11, 1968 - Day 43



ALWAYS USE
ZIP CODE

Total Depth: 5606'.

Plugged depth now 3650'.

APR 15 1968
APR 15 1968
APR 15 1968

Sharon

Telephone: 222-7793 232 4821
Area Code: 303

Juniper



OIL & GAS COMPANY
A DIVISION OF BUTTES GAS & OIL CO.
SUITE 420, C. A. JOHNSON BUILDING, 509 SEVENTEENTH STREET, DENVER, COLORADO 80202

April 18, 1968

Mr. Paul Burchell
Utah Oil and Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah

Dear Mr. Burchell:

Enclosed are two copies of the Notice of Intention to Suspend Operations and Subsequent Report of Operation Suspension made out to the U. S. Geological Survey. We do not have any of the State of Utah forms for this and are sending you copies of the U. S. G. S. form.

Sincerely,

John E. Wey
John E. Wey

JEW:dwd

Enclosures

P. S. Please send us 25 copies of your Sundry Notices form.

Sent

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

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 017980

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

As above

9. WELL NO.

Federal 30-B3X

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 30-40S-12W

12. COUNTY OR PARISH | 13. STATE

Washington | Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Buttes Gas & Oil Co.

3. ADDRESS OF OPERATOR

420 C. A. Johnson Building, Denver, Colorado

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

Approximate Center NE $\frac{1}{4}$ SW $\frac{1}{4}$
Section 30

14. PERMIT NO.

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

Ground 3600' +/-

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 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) Suspend Operations <input checked="" type="checkbox"/>	

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) <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.)*

1. 10 3/4", H-40, 32.75 lb cemented at 178'.
2. 7 5/8", J-55, 24 lb cemented at 3312' with 70 sx.
3. 6 3/4" hole drilled to 5606' T. D.

Proposed operations (Oral approval obtained from R. Smith on 4/8/68):

1. Plug across the following intervals with cement:
 - a. 4670-4770'
 - b. 4370-4470'
 - c. 3970-4070'
 - d. 3470-3570'
2. Using air unload hole and determine fluid entry.
3. Suspend operations.

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

SIGNED

John E. Wiley

TITLE

Engineer

DATE

4/18/68

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Form 9-631
(May 1963)

Do not use this form for proposals to drill or to abandon or plug back to a different reservoir.
See "ABANDONMENT FOR PERMIT" for such proposals.

1. NAME OF OPERATOR: **Buttes Gas & Oil Co.**

2. LOCATION OF WELL (Indicate location clearly and in accordance with any State requirements. See also space 11 below):
Approximate Center NE 1/4 Section 30

3. LOCATION OF WELL (Indicate location clearly and in accordance with any State requirements. See also space 11 below):
420 C. A. Johnson Building, Denver, Colorado 80202

4. TYPE OF WELL: OIL WELL GAS WELL OTHER

5. NAME OF OPERATOR: **Buttes Gas & Oil Co.**

6. LOCATION OF WELL (Indicate location clearly and in accordance with any State requirements. See also space 11 below):
Approximate Center NE 1/4 Section 30

7. LOCATION OF WELL (Indicate location clearly and in accordance with any State requirements. See also space 11 below):
420 C. A. Johnson Building, Denver, Colorado 80202

8. ELEVATIONS (Show whether in ft. or m.):
Ground 3800'

9. CHECK APPROPRIATE BOX TO INDICATE NATURE OF INTERVENTION TO BE MADE:

TEST WATER SHORTAGE	<input type="checkbox"/>
EXHAUSTED RESERVOIR	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
CHANGE PLANS	<input type="checkbox"/>
MUTUAL COMPLETE	<input type="checkbox"/>
BELL OR OTHER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO:	

17. Describe proposed or completed operations. Clearly state all pertinent data and in accordance with the instructions on the back of this form. If well is directionally drilled, give azimuths, bearings, and in accordance with the instructions on the back of this form.

- With open end drill pipe mixed and equalized 22 ax of cement at 4270-4770'; 4370-4470', 3270-4070', and 3270-3270'. Ran drill pipe to 4280' without finding plug.
- With open end drill pipe at 4158' mixed and equalized 120 ax of cement. Found top of plug at 4220'.
- With open end drill pipe at 4050' mixed and equalized 133 ax of cement. Top of plug at 3800'.
- With open end drill pipe at 3612' mixed and equalized 30 ax of cement. Top plug at 3685'.
- With open end drill pipe at 3564' mixed and equalized 20 ax of cement. Plug at 3628'.
- With open end drill pipe at 3528' mixed and equalized 30 ax of cement. Found top of plug at 3552' by wireline.
- Set Halliburton bridge plug on drill pipe at 3465'. -- Continued over --
- With open end drill pipe at 3465'.
- Unloaded hole. Checked fluid entry every four hours.
- Shut well in and operations suspended at 10:00 a.m. April 13, 1968.

APPROVED BY: _____
DATE OF APPROVAL: _____

TITLE: _____

TITLE: _____

Instructions

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

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

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

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-686229

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 017980

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.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Buttes Gas & Oil Co.

3. ADDRESS OF OPERATOR

420 C. A. Johnson Building, Denver, Colorado 80202

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

Approximate Center NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 30

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

As above

9. WELL NO.

Federal 30-B3X

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 30-40S-12W

12. COUNTY OR PARISH

Washington Utah

14. PERMIT NO.

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

Ground 3600' +/-

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) Suspend Operations

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.)*

1. With open end drill pipe mixed and equalized 25 sx of construction cement across intervals 4670-4770'; 4370-4470', 3970-4070' and 3470-3570'. Stand cemented 8 hours. Ran drill pipe to 4280' without finding plugs.
2. With open end drill pipe at 4158' mixed and equalized 150 sx of construction cement. Stand cemented 12 hours. Found top of plug at 4250'.
3. With open end drill pipe at 4050' mixed and equalized 139 sx of construction cement. Stood cemented 4 hours. Top of plug at 3860'.
4. With open end drill pipe at 3612' mixed and equalized 30 sx of construction cement. Stood cemented 3 hours. Top plug at 3685'.
5. With open end drill pipe at 3564' mixed and equalized 20 sx of construction cement. Stood cemented 3 hours. Plug at 3628'.
6. With open end drill pipe at 3598' mixed and equalized 30 sx of construction cement. Found top of plug at 3552' by wireline.
7. Set Halliburton bridge plug on drill pipe at 3515'.

-- Continued, Over --

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

SIGNED

John E. Wey

TITLE

Engineer

DATE

4/18/68

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

1. NAME OF OPERATOR
Butter Gas & Oil Co.

2. ADDRESS OF OPERATOR
420 C. A. Johnson Building, Denver, Colorado 80202

3. LOCATION OF WELL (If not on map, show location clearly and in accordance with State requirements. See also space 11 below.)
Approximate Center NE 1/4 Section 30

4. PERMIT NO.
Ground 3000'

5. OPERATIONS (Show whether re. or dr.)

6. CHECK APPROPRIATE BOX TO INDICATE NATURE OF OPERATION

TEST WATER SECTORS	<input type="checkbox"/>
FRACTURE TESTS	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELLS	<input type="checkbox"/>
CHANGE DEEPS	<input type="checkbox"/>
ABANDON	<input type="checkbox"/>
MULTIPLE COMPLETS	<input type="checkbox"/>
PERF. OR ALTER CASING	<input type="checkbox"/>

7. DESCRIBE REPORTED OR COVERED OPERATIONS. Clearly state the pertinent data and give a brief description of the work. If well is abandoned, give reasons for abandonment and measure of gas or oil production to this work.

8. With open end drill pipe at 3510' mixed and equalized 8' x of construction cement. Stood cement 4 hours. Found top of plug at 13465'.

9. Unloaded hole. Checked fluid entry every four hours.

10. Shut well in and operations suspended at 10:00 a.m., April 13, 1968.

11. With open end drill pipe at 4050' mixed and equalized 25' x of cement and equalized 150' x of cement.

12. With open end drill pipe at 3812' mixed and equalized 30' x of cement. Stood cemented 3 hours. Top plug at 3805'.

13. With open end drill pipe at 3564' mixed and equalized 30' x of cement. Stood cemented 3 hours. Plug at 3528'.

14. With open end drill pipe at 3528' mixed and equalized 30' x of cement. Found top of plug at 3522' by injection.

15. Set Halliburton bridge plug on drill pipe at 13465'.

16. I hereby certify that the foregoing is a true and correct copy of the original report and is true to the best of my knowledge and belief.

SIGNED _____

(This space for Federal or State office use)

APPROVED BY _____

CONDITIONS OF APPROVAL, IF ANY:

*See instructions

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685229

Instructions

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

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

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

Sharon
Juniper



OIL & GAS COMPANY
A DIVISION OF BUTTES GAS & OIL CO.

SUITE 420, C. A. JOHNSON BUILDING, 509 SEVENTEENTH STREET, DENVER, COLORADO 80202

April 23, 1968

State of Utah
Oil and Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah

Gentlemen:

Enclosed, for your files is your form No. 8-X, in quadruplicate, together with copies of the water analyses, for Buttes' Federal 30 - B3X well in Washington County, Utah.

Sincerely,

John E. Wey
John E. Wey

JEW:dwd

Enclosures

BUTTES-FEDERAL NO. 30-B3X

BIT RECORD

<u>BIT NO.</u>	<u>SERIAL NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>JET SIZES</u>	<u>USED/NEW</u>	<u>From/To</u> <u>INTERVAL</u>	<u>FEET</u>	<u>HOURS</u>	<u>CONDITION</u>
1	735392	9 7/8	Reed	YHW2	Regular	New	0-145'	145'	14	Dull
2	70296	9 7/8	Smith	4W4	Regular	New	145-183'	38'	8 1/4	Dull
3	Reamer	13 3/4	Smith	6 pt.	Regular	New	0-160'		10 1/2	Inc.
4		13 3/4	Reed	YHW2	Regular	New	162-180'	18'	5	Dull
5	843308	9 7/8	Reed	YHW2	Regular	New	Drilled cement, shoe and cleaned out hole.			
6	LD10	9 7/8	HTC	RG7J	Regular	New	180-484'	304'	32	Dull
7	45252	9 7/8	CP	EH7	Regular	New	484-846'	362'	26	60% Dull
8	289265	9 7/8	CP	EH7	Regular	New	846-1192'	346'	29	Dull
9	72735	9 7/8	Smith	8AP	Regular	New	1192-1491'	299'	32 1/4	Dull
10	71512	9 7/8	Smith	8AP	Regular	New	1491-1758'	267'	38 2/4	Dull
11	A21510	9 7/8	Reed	YCG	Regular	New	1758-2083'	325'	33	Dull
12	72855	9 7/8	Smith	8AP	Regular	New	2083-2307'	224'	23	Dull
13	17885	9 7/8	Smith	9AP	Regular	New	2307-2356'	49'	12 1/4	Dull
14	G42053	9 7/8	Reed	YCG	Regular	New	2356-2663'	307'	29 1/2	Dull
15	45252	9 7/8	CP	EH7	Regular	New	2663-2929'	266'	30	Dull
16	71484	9 7/8	Smith	9AP	Regular	New	2929-2964'	35'	4 1/2	Inc.
17										
18	33146	6 3/4	Smith	W4W	Regular	New	3312-3338'	26'	3	Dull
19	47944	6 3/4	Smith	8AP	Regular	New	3338-3380'	42'	3	Inc.
CH1		6 3/4	Christensen		Diamond	New	3380-3384'	4'		40% Worn
19RR	47944	6 3/4	Smith	8AP	Regular	Rerun	3384-3405'	24'	2 1/2	Inc.
CH2		6 3/4	Christensen		Diamond	New	3405-3406'	1'		60% Worn
19RR	47944	6 3/4	Smith	8AP	Regular	Rerun	3406-3547'	141'	7 1/4	Inc.
CH3		6 3/4	Christensen		Diamond	New	3547-3565'	18'	5	Good
19RR	47944	6 3/4	Smith	8AP	Regular	Rerun	3565-3851'	286' (493')	18 1/2 (31 1/2)	Dull
20	460146	6 3/4	Reed	YC4G	Regular	New	3851-4545'	694'	48 1/2	Dull
CH4		6 3/4	Midway Mfg/ - Tungsten Carbide				4545-4547'	2'		
21	19300	6 3/4	HTC	RG1X	Regular	New	4547-5025'	478'	40 1/4	Dull
22	184392	6 3/4	Reed	FBC4S	Regular	New	5021-5606'	585'	50 1/2	Locked

DEVIATION RECORD

<u>Depth</u>	<u>Deviation</u>
80	1°
150	1° 30"
250	1°
350	1°
500	30"
800	1° 45"
1000	1° 30"
1350	1° 15"
1720	45"
2270	1°
2650	1° 15"
3100	1°

1588 West North Temple
Salt Lake City, Utah 84116
328-5771

July 22, 1968

Buttes Gas & Oil Company
420 C.A. Johnson Building
Denver, Colorado 80202

Re: Well No. Federal 30-B3X,
Sec. 30, T. 40 S., R. 12 W.,
Washington, County Utah.

Well No. Old Sqaws Crossing #1,
Sec. 17, T. 10 S., R. 20 E.,
Uintah County, Utah.

Gentlemen:

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

Please complete the enclosed Forms OGC-3, "Well Completion or Recompletion Report and Log", in duplicate and forward them to this office as soon as possible.

Thank you for your cooperation in this request.

Sincerely,

DIVISION OF OIL & GAS CONSERVATION

SHARON CAMERON
RECORDS CLERK

sc

**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 GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
Buttes Gas & Oil Co.

3. ADDRESS OF OPERATOR
420 C.A. Johnson Building, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **2106' from south line and 1913' from west line of Sec. 30, T40S, R 12 W.**
At top prod. interval reported below **Same**
At total depth **Same**

14. PERMIT NO. _____ DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
Utah 017980

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
--

7. UNIT AGREEMENT NAME
--

8. FARM OR LEASE NAME
Same as above

9. WELL NO.
Federal 30-B3X

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 30, T40s, R12W

12. COUNTY OR PARISH
Washington

13. STATE
Utah

15. DATE SPUNDED **2-28-68** 16. DATE T.D. REACHED **4-7-68** 17. DATE COMPL. (Ready to prod.) **4-13-68 (suspended)** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **3617'** 19. ELEV. CASINGHEAD **3607'**

20. TOTAL DEPTH, MD & TVD **5606** 21. PLUG, BACK T.D., MD & TVD **3465** 22. IF MULTIPLE COMPL., HOW MANY* **--** 23. INTERVALS DRILLED BY **→** ROTARY TOOLS **0-5606** CABLE TOOLS **--**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
3312-3465 25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual IES- Laterolog, SWN, Gamma-Density, GR-Neutron 27. WAS WELL CORED
YES

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4	32.75	162	13-3/4	269 sx.	--
7-5/8	24	3312	9-7/8	70 sx.	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
	None			

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	None	

31. PERFORATION RECORD (Interval, size and number)
None - open hole 3312-3465

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

33.* PRODUCTION

DATE FIRST PRODUCTION **Suspended** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **--** WELL STATUS (Producing or shut-in) **shut in - suspended**

DATE OF TEST	HOURS TESTED	CHOKE 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.) **--** TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
--

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

SIGNED *John E. Wey* TITLE **Engineer** DATE **July 26, 1968**

*(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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH
					TOP
Cove No. 1	3380	3384	Chert with dolomite. No visible porosity.		
Cove No. 2	3405	3406½	Scattered oil staining.		
Cove No. 3 DST No. 1	4547	4547	Limestone. No visible porosity.		
Cove No. 4 DST No. 1	4874	5025	Scattered oil stain. Limestone Nodular. No visible porosity. Trace oil stain. Rec. 1 ft. Rec. 4162' of 15,000-21,000 PPM water. 1 HP 1898, ISIP 1893; IFP 505, FFP 1892, FSIP 1894. Strong blow of air decreasing to dead in 60 min.		

AUG 22 1969

1588 West North Temple
Salt Lake City, Utah 84116
328-5771

July 31, 1968

Buttes Gas & Oil Company
420 C.A. Johnson Building
Denver, Colorado 80202

Re: Well No. Federal 30-B3X,
Sec. 30, T. 40 S., R. 12 W.,
Washington County, Utah

Well No. Old Sqaws Crossing #1,
Sec. 17, T. 10 S., R. 20 E.,
Uintah County, Utah

Gentlemen:

This letter is to advise you that the "Well Completion or Recompletion Report and Log" and electric and/or radioactivity logs for the above mentioned well are due and have not been filed with this office as required by our rules and regulations.

Please complete the enclosed Forms OGC-3, "Well Completion or Recompletion Report and Log", in duplicate and forward them to this office as soon as possible. If electric and/or radioactivity logs were not run, please make a statement to this effect in order for us to keep our records accurate and complete.

Your cooperation in this matter will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SHARON CAMERON
RECORDS CLERK

sc

July 31, 1968

Enclosure: Forms OGC-3

Buttes Gas & Oil Company
420 C.A. Johnson Building
Denver, Colorado 80202

August 6, 1968

Mr. Robert R. Norman
Buttes Gas & Oil Company
4 Uranium Building
Moab, Utah 84532

Re: Well No. Federal 30-B3X,
Sec. 30, T. 40 S., R. 12 W.,
Washington County, Utah.

Well No. Old Squaw's Crossing #1,
Sec. 17, T. 10 S., R. 20 E.,
Uintah County, Utah.

Dear Bob:

Repeated requests to Buttes Gas & Oil Company in Denver, Colorado for the Well Completion Report and Electric Logs for the above mentioned wells have been ignored.

Could you please assist in expediting the submission of these reports.

If said reports are not filed by the end of this month, the Attorney General will be requested to take the necessary legal action.

In the mean time this office can not approve the drilling of additional wells by Buttes Gas & Oil Company in the State of Utah.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FREIGHT
DIRECTOR

CBF:sc

cc: Buttes Gas & Oil Company, Denver, Colorado



JUNIPER OIL & GAS COMPANY
A DIVISION OF BUTTES GAS & OIL CO.
420 C. A. JOHNSON BLDG.
DENVER, COLORADO 80202

OIL & GAS COMPANY

SUITE 420, C. A. JOHNSON BUILDING, 509 SEVENTEENTH STREET, DENVER, COLORADO 80202

August 21, 1968

292-4820

Mr. Rodney A. Smith
U. S. Geological Survey
8416 Federal Building
Salt Lake City, Utah 84111

Re: Well No. 30-B3X
Section 30-40S-12W
Washington County, Utah

Dear Mr. Smith:

Enclosed, for your files, are two copies of your form No. 9-330, Well Completion Report, and two copies, each, of the following logs for the subject well: Dual Induction-Laterolog, Gamma Ray-Neutron, Compensated Formation Density, Sidewall Neutron Porosity logs and the Lithology Identification. Also enclosed are two copies of the Well History and Summary Report for this well.

By copy of this letter we are asking our Mr. Robert Norman to send to you two copies of his geologic well log for this well.

It is our intention to attempt some stimulation on this well within the next several months.

If you need additional information on this well, please let us know.

Sincerely,

John E. Wey
John E. Wey

JEW:dws

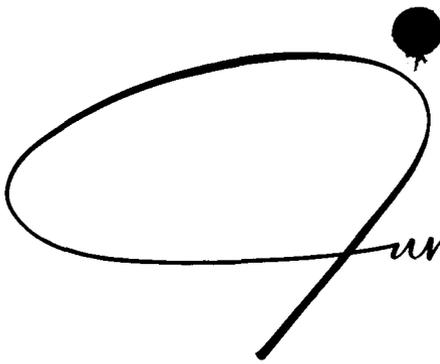
Enclosures

cc: Utah Oil and Gas Conservation Commission
w/ one copy each enclosure

Robert R. Norman

Bob Norman: Please also send a copy of the geologic well log to Mr. C. B. Feight of the Utah Oil and Gas Cons. Comm., 1588 W. N. Temple, Salt Lake City, and one to us.

C
O
P
Y



OIL & GAS COMPANY
A DIVISION OF
BUTTES GAS & OIL CO.

SUITE 420, C. A. JOHNSON BUILDING, 509 SEVENTEENTH STREET, DENVER, COLORADO 80202

August 22, 1968

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

Gentlemen:

Would you please consider this a request that you hold confidential the well history and logs for Buttes' Federal 30-B3X well in Washington County, Utah, until November 13, 1968.

Sincerely,

John E. Wey

JEW:dwd

cc: U. S. Geological Survey,
Salt Lake City

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

LAND OFFICE Utah
LEASE NUMBER 017980
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Anderson Junction

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1968,

Agent's address 420 C. A. Johnson Bldg., Company Buttes Gas & Oil Co.
Denver, Colorado 80202 Signed [Signature]

Phone _____ Agent's title _____

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)
NE 1/4 SW 1/4 Section 30	40S	12W	30BX	0	0	0	0	0	0	Operation suspended Well incomplete 10am April 13, '68. Total depth drilled 5606'. Plug back depth 3465

CC: Buttes (2)

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no 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 017980
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Anderson Junction

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1968,

Agent's address 420 C. A. Johnson Bldg. Company Buttes Gas & Oil Co.
Denver, Colorado 80202 Signed *[Signature]*

Phone _____ Agent's title _____

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)
NE ¼ SW ¼ Sec. 30	40S	12W	30BX	0	0	0	0	0	0	Operation suspended well incomplete 10 am Apr. 13, '68. Total depth drilled 5606' Plug beck depth 3465

cc: Buttes (2)

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;
no 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.

BUTTES GAS & OIL CO.

MINERALS DIVISION

SUITE 4, URANIUM BUILDING

P. O. BOX ~~157~~ 606

MOAB, UTAH 84532

(801) 253-4981

November 11, 1968

No: M-68-365

Mr. Rodney A. Smith
U. S. Geological Survey
8416 Federal Building
Salt Lake City, Utah, 84111

Mr. Cleon B. Feight ✓
Oil and Gas Conservation
1588 W. North Temple
Salt Lake City, Utah, 84116

Re: Well No. 30-B3X
Sec. 30-40S-12W
Washington County, Utah

Dear Sirs:

We have received this date and are enclosing a copy of the geological well log prepared by the American Stratigraphic Company, 6280 East 39 Avenue, Denver, Colorado.

Sorry for the delay. We discovered that the colored company original was a little difficult to reproduce.

If this is not satisfactory to complete your records, please let us know.

Very truly yours,



Robert R. Norman
Manager, Minerals Exploration

RRN/hh
enc.

cc: Otto Hackel, Vice-President
Buttes Gas & Oil Co.
2150 Franklin St.
Oakland, California, 94612

Mr. John E. Wey
Juniper Oil & Gas Co.
420 C. A. Johnson Bldg.
Denver, Colorado, 80202

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved ^{PH}
Budget Bureau No. 42-R356.5.

LAND OFFICE Utah
LEASE NUMBER 017980
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Anderson Junction

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1968,

Agent's address 420 C. A. Johnson Bldg Company Buttes Gas & Oil Co.
Denver, Colorado 80202 Signed M Bailey

Phone _____ Agent's title _____

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)
NE½ SW½ Sec. 30	40S	12W	30BX	0	0	0	0	0	0	Well incomplete 10 am April 13, 1968. Total depth drilled 5606', plug back depth 3465'. Operation suspended.

cc: Oakland
T. A. Moore

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No 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 017980
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Anderson Junction

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1969, Juniper Oil & Gas Company.

Agent's address 420 C. A. Johnson Bldg. Company A Div of Buttes Gas & Oil Co.
Denver, Colorado 80202 Signed *[Signature]*

Phone _____ Agent's title _____

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)
NE ¼ SW ¼ Sec. 30	40S	12W	30BX	-0-	-0-	-0-	-0-	-0-	-0-	Well incomplete 10 am April 13, 1968. Total depth drilled 5606' plug back depth 3465' Operation suspended

cc: U.S.G.S. (2) ✓
U.S.G.S. (1) Rodney A. Smith, Dist Engineer, Salt Lake City
Oakland
T. A. Moore

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No 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 017980
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Anderson Junction

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1969, Juniper Oil & Gas Company,

Agent's address 420 C. A. Johnson Bldg. Company A Div. of Buttes Gas & Oil Co.
Denver, Colorado 80202 Signed *M. Moore*

Phone _____ Agent's title _____

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)
NE 1/4 SW 1/4 Sec. 30	40S	12W	30Bx	-0-	-0-	-0-	-0-	-0-	-0-	Well incomplete 10 a.m. April 13, 1968. Total depth drilled 5606', plug back depth 3465' Operation suspended

cc: U.S.G.S. (2)
U.S.G.S. (1) Rodney A. Smith, Dist Engineer, Salt Lake City
Oakland
T. A. Moore

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;
No 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.

5000

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5
LAND OFFICE Utah
LEASE NUMBER 017980
UNIT _____

PE
PMB

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Anderson Junction

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1969,

Agent's address 420 C. A. Johnson Bldg. Company Buttes Gas & Oil Co.
Denver, Colorado 80202 Signed [Signature]

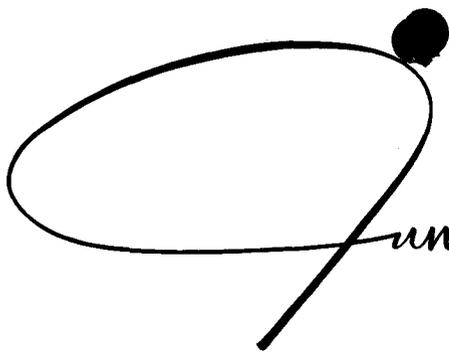
Phone _____ Agent's title _____

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE 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)
ne/4sw/4 Sec 30	40S	12W	30Bx	-0-	-0-	-0-	-0-	-0-	-0-	Well incomplete 10 a.m. April 13, 1968. Total depth drilled 5606' plug back depth 3465' Operation suspended.

cc: U.S.G.S. (2)
U.S.G.S. (1) Rodney A. Smith, Dist. Engineer, Salt Lake City
Oakland
T. A. Moore

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;
No 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.



Juniper

OIL & GAS COMPANY

A DIVISION OF

BUTTES GAS & OIL CO.

SUITE 420, C. A. JOHNSON BUILDING, 509 SEVENTEENTH STREET, DENVER, COLORADO 80202

April 21, 1969

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

ATTN: Scheree DeRose

Dear Miss DeRose:

I am returning your letter where you requested electric logs for the Federal No. 1 in Section 14, T43S, R13W, Washington County, Utah. Buttes Gas & Oil Co. has no well at this location; I assume that either you would like logs on one of our wells which we are now operating, or that your letter should be addressed to some other company.

Very truly yours,

John E. Wey
John E. Wey

JEW/jo
Enclosure

April 28, 1969

Willard Pease Drilling Company
P.O. Box 548
Grand Junction, Colorado 81501

Re: Well No. Anderson Junction
Federal #1
Sec. 14, T. 43 S, R. 13 W,
Washington County, Utah

Gentlemen:

This letter is to advise you that the electric and/or radioactivity logs for the above mentioned well are due and have not been filed with this office as required by our rules and regulations.

If electric and/or radioactivity logs were not run, please make a statement to that effect in order to keep our records accurate and complete.

Thank you for your cooperation in this request.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SHARON CAMERON
RECORDS CLERK

sc

JMS

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah 84111

May 7, 1970

Juniper Oil & Gas Company
Suite 420, C. A. Johnson Bldg.
509 Seventeenth Street
Denver, Colorado 80202

Gentlemen:

We have been advised by the Utah Land Office that lease Utah 017980 terminated on February 28, 1970. This lease contains one suspended well drilled by your company, the Federal 30-B3X, NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 40 S., R. 12 W., Washington County, Utah.

Since the lease has terminated, the above well must be plugged and abandoned as soon as practicable. You should first submit a notice of intention to abandon on form 9-331 with your proposed plugging program or discuss the program with me and receive approval before commencing abandonment operations.

If you have any questions on this matter, please contact this office.

Very truly yours,

(ORIG. SGD.) R. A. SMITH

Rodney A. Smith
District Engineer

cc: Lloyd Corp., Ltd.
9441 Olympic Blvd.
Beverly Hills, Calif. 90212

Willard Pease Drilling Co.
Box 548
Grand Junction, Colo. 81501

✓ Utah Division of Oil & Gas Conservation Comm.

Butler G & O C. 5/20/70
Anderson Jar 178' of surface pipe
sec 30 - 7" net c 3312 / 70 ss
no pipe.

Insects

Cocoon Lapi -1057

Hermit

Pakoon

Calvella

219 - small water - more c 255'

1490 - water

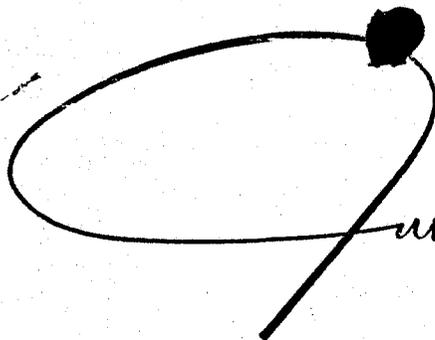
2019 - more of water

HSGS - Rod

Well either cut or

Ref & place cement above
and below (at stop) to isolate all ss
series of Coco & Lapi

PMB



uniper
OIL & GAS COMPANY
A DIVISION OF
BUTTES GAS & OIL CO.

SUITE 420, C. A. JOHNSON BUILDING, 509 SEVENTEENTH STREET, DENVER, COLORADO 80202

May 28, 1970

ABANDONMENT PROGRAM

Anderson Junction Prospect

No. 30-B3X Well

LOCATION: C NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 30, T40S, R12W, Washington Co., Utah

ELEVATION: K.B. 3617' Ground 3608'
ALL MEASUREMENTS FROM K.B. - 9' above G.L.

DEPTHS: Total Depth - 5605' (driller)
Plugback Depth - 3465' (driller)

LOGS: Schlumberger - DIL, FDC, SNP and GR-N

CASING: Surface - 10 3/4", 32.75 lb., H-40, cemented at 178'.
Intermediate - 7 5/8", 24 lb., J-55, cemented at 3312'
with 70 sx. inside of 9 7/8" hole (calculated fill from
3312' to 2931').

HOLE SIZE: 6 3/4" hole - 3312' to 3465'

TUBING: None

PROPOSED PROGRAM:
(If 7 5/8" casing pulled)

A. 5 plugs to be installed:

1. 6 3/4" hole from 3312' to 3465'.
2. Across Pakoon @ 2280'.
3. Across Coconino @ 1057'.
4. Surface Casing Shoe @ 178'.
5. Surface from 10'.

1. Move in casing pulling unit.
2. Rig up unit at 30-B3X.

ABANDONMENT PROGRAM, Anderson Junction Prospect, Page Two:

3. Run tubing to 3365'. Mix and equalize 50 sx. of cement (calculated to fill 6 3/4" hole from 3465' to 3312' and 7 5/8" casing to 3230'). Mix cement with 2% CaCl₂.
4. Determine 7 5/8" casing free point. Cut and recover. Note: Theoretical top of cement in annulus is at 2931'.
5. If casing recovered below 2350', proceed as below:
6. (Pakoon Formation Plug) - with tubing hanging at 2350' mix and equalize 60 sx. of cement premixed with 2% CaCl₂. Stand cemented four hours and determine if top of plug is at 2250' or above.
7. (Coconino Formation Plug) - With tubing hanging at 1110' mix and equalize 60 sx. of cement premixed with 2% CaCl₂. Stand cemented four hours and determine if top of plug is at 1000' or above.
8. (Surface Casing Shoe Plug) - With tubing hanging at 225' mix and equalize 50 sx. of cement premixed with 2% CaCl₂.
9. Cut off surface casing and install 10 sx. plug in stub. Install dry hole marker.
10. Clean location and fill pits.

PROPOSED PROGRAM:
(If 7 5/8" casing cannot be recovered below 2350').

1. Perforate 7 5/8" casing at 2350'. Mix and pump 60 sx. of cement down 7 5/8" casing to displace cement in 9 7/8" - 7 5/8" annulus to 2220'.
2. Perforate 7 5/8" casing at 1100'. Mix and pump 60 sx. of cement down 7 5/8" casing to displace cement in 9 7/8" - 7 5/8" annulus to 1000'.
3. Bridge annulus between 10 3/4" surface casing and 7 5/8" casing at a depth of 75' +/- . Fill annulus with neat cement.
4. Bridge 7 5/8" inside of 75' +/- . and fill with neat cement.
5. Cut off surface casing. Install dry hole marker.
6. Clean location and fill pits.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN
(Other Instru-
verse side)

FE*
re-

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

Utah 017980

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Anderson Junction

8. FARM OR LEASE NAME

Federal

9. WELL NO.

30-B3X

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

30-40S-12W

12. COUNTY OR PARISH

Washington

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER

Suspended Drilling Well

2. NAME OF OPERATOR

Buttes Gas & Oil Co.

3. ADDRESS OF OPERATOR

1700 Denver Center Building, Denver, Colorado 80203

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

C NE $\frac{1}{4}$, SW $\frac{1}{4}$, Section 30, T40S, R12W, Washington Co., Utah

14. PERMIT NO.

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

3608' Gr.

3617' K.B.

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.)*

PRESENT CONDITION

1. Total Depth 5605' (driller)

2. Plugback Depth 3465' (driller)

3. Casing:

a. 10 3/4", 32.75 lb., H-40, cemented to surface at 178'.

b. 7 7/8", 24 lb., J-55, cemented at 3312' with 70 sx.

4. 6 3/4" hole 3312'-3465'.

PROPOSED PROGRAM

1. Pull 7 5/8" casing and install 5 cement plugs.

a. 3465'-3312'

b. Pakoon Formation at 2280'

c. Coconino Formation at 1057'

d. 10 3/4" surface casing shoe at 178'

e. Surface from 10'-0'

See Attached Program for Details.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 6-29-70

BY Clem B. Feight

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

SIGNED

John E. Wey

TITLE

Engineer

DATE

6-24-70

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UTAH
WASHINGTON CO.
WILDCAT (W)



Petroleum Information Corp.
Denver, Colorado

© 1968 All Rights Reserved

Twp 40s-12w
Section 30
ne sw
2106 n/s 1913 e/w

OPR: Buttes Gas & Oil

WELL #: 30-B-3X Federal

ELEV: 3617 DF
TOPS: Log - Sample

DSTS & CORES:

Crd 3380-84, rec 4 chert, scatt
ostn. Crd 3405-06 $\frac{1}{2}$, rec 1 $\frac{1}{2}$ ls,
scatt ostn. Crd 3547-65, rec 13
ls, trace ostn. Crd 4545-47, rec
1 ls. DST 4874-5025, SI 30 mins,
open 1 hr, SI failed, rec 4162
wr, FP 505-1392#, SIP 1893#
failed, HP 1898-1894#.

SPUD: 2-28-68
TD: 5606
CSG: 10-3/4" @ 162 w/269
7-5/8" @ 3312 w/70

COMPL:

PB: 3465

PERF: Tstd (open hole) 3312-3465, no
details.

PROD. ZONE:

INIT. PROD: Temp abandoned 4-13-68

Contr: Pease

MAP UB-16A

U5-964030

UTAH
WASHINGTON CO.
WILDCAT (W)



Petroleum Information Corp.
Denver, Colorado

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Twp 40s-12w
Section 30
ne sw
2183 n/s 1915 e/w

OPR: Buttes Gas & Oil

WELL #: 30-B-3X Federal

ELEV:
TOPS: Log - Sample

DSTS & CORES:

SPUD: 2-28-68
TD: 5606
CSG: 7-5/8" @ 3312

COMPL:

PB:

PERF: PB - Tstd Penn.

PROD. ZONE:

INIT. PROD: Susp.

Contr: Pease

(CARD WILL BE RE-ISSUED WHEN DATA AVAILABLE)

MAP UB-16A

U4-869070

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

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-017980

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

Federal 30 B3X

10. FIELD AND POOL, OR WILDCAT

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

Sec. 30 T40S R12W

12. COUNTY OR PARISH | 13. STATE

Washington | Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Buttes Gas & Oil Co.

3. ADDRESS OF OPERATOR
Box 548, Grand Junction, Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2106' F.S.L. 1913' F.W.L. of Sec. 30 T40S R12W

14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
| 3607 GR

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 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) <input type="checkbox"/>	

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 checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Form 9-331)

We would appreciate your review of the wellsite location of the above described well to determine one of the following:

- Rehabilitation Satisfactorily Completed
- Rehabilitation Unsatisfactorily Completed for the following reasons (Please list in the provided space and return to this office):

District Engineer
United States Geological Survey
8426 Federal Building
125 South State Street
Salt Lake City, UT 84138
PHONE: (801) + 524-5650

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

SIGNED [Signature] TITLE Productions Supt. DATE 4/7/75

(This space for Federal or State office use)

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

ORAL APPROVAL TO PLUG AND ABANDON WELL

303 + 242-6912
Grd Jct

Operator Buttes Gas & Oil Co. Representative Bob Renwick, Willard Pease Drlg.

Well No. 30-B3X Located NE 1/4 SW 1/4 Sec. 30 Twp 40S Range 12W, SLM.

Lease No. U-017980 Field Anderson Jct. w/c State Washington Co., Utah

Well Name and Required Depth Anderson Jct. Base of fresh water sands 400' (Est.)

PBTD 3465' Size hole and 9 7/8" to 3312' Mud Weight Load hole w/
T.D. 5606' Fill Per Sack 6 3/4" to TD and Top 8 5 #/gal. PB to Sur
Cal. Log from 3312'

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		Sacks Cement
				From	To	
<u>10 3/4</u>	<u>178'</u>	<u>3915X</u>	<u>None</u>	<u>20ft cmt plug @ surface w/reg. marker.</u>	<u>125'</u>	<u>75 cmt plug across</u>
<u>7 5/8</u>	<u>3312'</u>	<u>705X Est 2905'</u>	<u>**</u>	<u>*3465'</u>	<u>3200'</u>	<u>10 3/4 - 32.75 #/gal csg shoe.</u> <u>265' cmt plug</u>

Formation	Top	Base	Shows	From	To	Sacks Cement
<u>Permian</u>						
<u>Kiabeb</u>	<u>Sur?</u>			<u>400'</u>	<u>500'</u>	<u>100ft cmt plug in 9 7/8" hole</u>
<u>Toroweap</u>	<u>552'2"</u>			<u>** 950</u>	<u>1050'</u>	<u>100' cmt plug in 9 7/8" hole</u>
<u>Cocozino</u>	<u>1057'2"</u>					
<u>Pakoon</u>	<u>2280'</u>			<u>** 2200</u>	<u>2350</u>	<u>150' cmt plug in 9 7/8" hole</u>
<u>Penn.</u>						
<u>Callville</u>	<u>3230'</u>					
<u>Mississippian</u>	<u>3666'</u>			<u>*PB-3465'</u>	<u>3200'</u>	<u>265' cmt - 7 5/8" ophole</u> <u>75 1/2 - 24 # csg</u>
<u>Darwinian</u>	<u>4683</u>			<u>**</u>		
<u>Cambrian</u>	<u>5240</u>					

Remarks

DST's, lost circulation zones, water zones, etc. Wtr entry @ 219' w/air drlg - increase @ 255' - * Assume PBTD is 3465' - Must be confirmed - Load hole w/ 8 5 #/gal fluid - CK PBTD - Tag up w/ DP or tbg wt.

Approved by E. W. [Signature] Date 3/5/75 Time 1:30 P.M.

CC: Buttes Gas & Oil Note: Subject to Attached Conditions
P.O. Box 5083, Denver 80217 of Approval
Bob Renwick, W. Pease Drlg, Grd Jct, Colo.
BLM, Cedar City
USGS, Vernal

BUTTES RESOURCES COMPANY

ROCKY MOUNTAIN DIVISION
3 PARK CENTRAL
1515 ARAPAHOE STREET
DENVER, COLORADO

POST OFFICE BOX 5083
DENVER, COLORADO 80217
(303) 892-5840

HOME OFFICE
OAKLAND, CALIFORNIA

May 13, 1975

United States Geological Survey
Conservation Division
8426 Federal Building
Salt Lake City, Utah 84138

Attention: E. W. Gwynn

Re: Anderson Junction Prospect
Washington County, Utah
67-092-000

Gentlemen:

We have been advised by The Willard Pease Drilling Company that the following wells have been plugged and abandoned:

1. The Federal #30-BX3 well located in the NE/4SW/4 Section 30 - Township 40 South, Range 12 West (U.S. Lease Utah 017980).
2. The Federal No. 1 Well located in Section 25 - Township 40 South, Range 13 West (U.S. Lease Utah 029127).

Please advise if the record title owner may now be released from bond liability on these wells.

Sincerely,



Michael K. Mendenhall
Production Landman

MKM:cdb

cc: The Lloyd Corporation, Ltd.
The Willard Pease Drilling Company

BUTTES RESOURCES COMPANY

ROCKY MOUNTAIN DIVISION
3 PARK CENTRAL
1515 ARAPAHOE STREET
DENVER, COLORADO

POST OFFICE BOX 5083
DENVER, COLORADO 80217
(303) 892-5840

HOME OFFICE
OAKLAND, CALIFORNIA

June 16, 1975

United States Geological Survey
Conservation Division
8426 Federal Building
Salt Lake City, Utah 84138

Attention: E. W. Gwynn

Re: Anderson Junction Prospect
Washington County, Utah
67-092-000

Gentlemen:

As of this date we have not received a reply to our letter of May 13th.

Please advise if record title owner may now be released from bond liability on the Federal #30-Bx3 well and the Federal No. 1 well.

Thank you.

Sincerely,


Michael K. Mendenhall
Production Landman

MKM:cdb

SRA to BLM

5/15/75

SRA to BLM, Cedar City

5/15/75

SRA Ltd 4/7/75
Rec 4/8/75

Well No. 30-BX3

#1

Sec 30-405-12W

Sec 25-405-13W

U 017980

U 029127



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
8426 Federal Building
Salt Lake City, Utah 84138

June 18, 1975

Mr. Michael K. Mendenhall
Buttes Resources Company
Post Office Box 5083
Denver, Colorado 80217

Re: Well #30 BX3
Section 30, T40S, R12W
U-017980
Well #1
Section 25, T40S, R13W
U-029127
Washington County, Utah

Dear Mr. Mendenhall:

Your letter of May 13, referenced in your letter of June 16, states that the Willard Pease Drilling Company advised you that the referenced wells have been plugged. Your letters ask if the record title owner may now be released from the bond liability.

The subsequent reports of abandonment for these two wells dated April 7, 1975, received in this office April 8, 1975, must be approved before any termination of bond liability. Bureau of Land Management clearance for surface restoration and an inspection of the well site by this office are necessary prior to approval of these subsequent reports of abandonment. The subsequent reports of abandonment were forwarded to the Bureau of Land Management Office, Cedar City, May 15, 1975, with a request as to whether the restoration of the well site and the access road were satisfactory or unsatisfactory. There has been no response to this request to date.

This office is in the process of setting up a flight schedule for helicopter to cover the maximum number of drill sites to be inspected in the shortest possible period of time. Hopefully the necessary inspections for these sites can be accomplished this summer. We are restricted due to increased operations activity and lack of staffing in this office.

By copy of this letter, we are requesting Bureau of Land Management, Cedar City, to respond to our request on the subsequent reports of abandonment for these two wells of May 15, 1975.

Sincerely yours,

E. W. Gynn
District Manager

cc: PLM, Cedar City

LLOYD CORPORATION, LTD.

(INCORPORATED IN CALIFORNIA)

9441 OLYMPIC BOULEVARD - CORNER BEVERLY DRIVE

BEVERLY HILLS, CALIFORNIA 90212

TELEPHONE 879-3080

SALT LAKE CITY, UTAH

DEC 5 AM 10:00

December 2, 1975

U. S. Department of Interior
Bureau of Land Management
Oil & Gas Bond Department
Salt Lake City, Utah 84111

Gentlemen:

We have a \$10,000 bond on each of the following leases which have been terminated for some time and the wells located thereon plugged and abandoned:

U.S. Lease Utah 017980

U.S. Lease Utah 029127 - *SRA Appr 8/12/75*
Bond Release ret. 12/8/75

We have been advised by the USGS office in Casper, Wyoming, that they have a copy of an SRA on 029127 and that we should be able to get that bond released. They also advise that the USGS office in Salt Lake informed them that they had written two letters to your office about 017980, but had received no reply.

We would appreciate your checking these leases and advising us if we may now be released from the bonds and, if not, what must be done to obtain their release.

Very truly yours,

LLOYD CORPORATION, LTD.

Katy Sue Campbell

Katy Sue Campbell
Auditor

KSC/bhk

cc: Buttes Resources Company

UNITED STATES GOVERNMENT

Memorandum

TO : District Engineer, Salt Lake City

DATE: Dec. 16, 1975

FROM : Vernal inspection Office

SUBJECT: Inspection Request----- Washington County Utah

As per your request of 12- 3-1975 an inspection was performed on the following wells:

Buttes Oil & Gas #1 swne sec. 25-40s-13w U-029127
Small amount of trash to be removed. (buckets& tin cans, old well sign).
Marker is not 4 inches .

✓ Buttes Oil & Gas #30-B-3x nesw sec. 30-40s-12w U-017980
Small amount of trash over edge of location--marker is not 4 inches.

Zion Crude Oil Co. #4 Virgin U-27359 nwnw sec. 13-41s-12w
Well is OSI. No Well Sign.

Zion Crude Oil Co. # 18 virgin U-27359 nwnw sec. 13-41s-12w
Well is ABD. 2 inch marker setting on open casing. Timbers to be removed.
Location needs releleveling.

Zion Crude Oil Co. # 17 virgin U-27359 nwnw sec. 13-41s-12w
No well sign, wellhead is leaking. Well is OSI.

Zion Crude Oil Co. # 3-A virgin U-27359 nws w sec. 13-41s-12w
Well is ?????? No well sign, well is buried, with no surface marker.

There are also 2 unfenced pits with oil in them just east of the battery. There is lots of old junk and trash in this area to be removed or fenced. Mr. Goodell of Zion Crude was requested to remedy this situation by Bill Fiant last summer. It looks as if some of the work has been done but it is far from being satisfactory. There were no well signs on any of Zion Crudes operations. When contacted for assistance in locating the above listed wells Mr. Goodell was, to say the least, uninformed, biligerant, and most uncooperative. It is evident from this brief encounter with Mr. Goodells operations in the virgin field that more effort should be expended in this area. It was also noted that many unplugged, unproduced wells exist in this area. Mr glade Stubbs says these wells will exceed 100 in number, in the entire field area. I do not know how acurate his information is but even if it was half this number I would suggest that we try to locate these wells, and if no one intends to produce them, press for abandonment while we still have bond coverage.


R.L. Alexander

Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

September 12, 1977

Memorandum

To: Chief, Branch of Lands & Minerals Operations
From: District Engineer, Salt Lake City
Subject: U-017980 Lease

Final abandonment on subject lease has been approved and it will be in order to terminate the period of liability on \$10,000 bond by Lloyd Corporation, Ltd. Subject lease terminated February 28, 1970.

(Orig. Sgd.) E. W. Guynn

E. W. Guynn

Attachment

bcc: O&GS, NRMA, Casper
Well file
Lease file ✓

EWG:tw

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File LEASE # U-017980
FEDERAL 30-B3X
(Location) Sec 30 Twp 40S Rng 12W
(API No.) 43-053-30001

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

Other

1. Date of Phone Call: 9-17-92 Time: 2:40

2. DOGM Employee (name) VICKY CAROPEY (Initiated Call)
Talked to:

Name PAUL CARTER (Initiated Call) - Phone No. (1) 586-2401
of (Company/Organization) BLM CEDAR CITY

3. Topic of Conversation: STATUS OF WELL
PA DATE

4. Highlights of Conversation: Told Paul we have an intent to
PA, but no subsequent. Could he check status?
He will check and call back probably
tomorrow.

10-5-92 8:10 Jarion Mitchell called for more info
to try to locate well. will check further + call
back.

Oral Approval given 3-5-75

OA to BLM for Stips. 3-6-75

20 & 25 Journal NIA rec'd. 3-6-75

To BLM for Stips. _____

BLM Stips. rec'd. _____

NIA Approved _____

Distributed _____

SRA rec'd. 4-9-75

To *VERNAL* + BLM 11-26-75

To BLM for Stips. (no NIA) 5-15-75

BLM Stips. rec'd. (no NIA) _____

SRA Approved 9/13/77

Distributed 9/13/77

Journal 5-15-75

Fed #30-#2X

40 112 # 30

43-043-30001

Butter O & Co.