

**FILE NOTATIONS**

Entered in NID File ..... ✓  
Location Map Pinned ..... ✓  
Card Indexed ..... ✓

Checked by Chief ..... ✓  
Approval Letter ..... ✓  
Disapproval Letter .....

**COMPLETION DATA:**

Date Well Completed **4-30-78** .....  
..... WW..... TA.....  
GW..... OS..... PA.....

Location Inspected .....  
Bond released  
State or Fee Land .....

**LOGS FILED**

Driller's Log..... ✓  
Electric Logs (No.) ..... ✓  
..... I..... Dual I Lat..... GR-N..... Micro.....  
RC Sonic GR..... Lat..... Mi-L..... Sonic.....  
CBLog..... CCLog..... Others.....

*Temporarily Abandoned - 4/30/78*



October 26, 1977

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

Attn: Mr. Cleon B. Feight

Re: #1 Jones 42-5 (2-7)  
Sec. 5, T2N, R7E  
Summit County, Utah

Dear Sir:

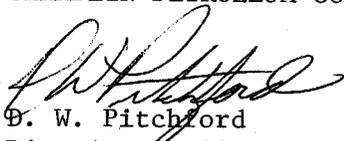
Enclosed for referenced well are the following:

1. Three copies each of Form DOGC-1a (Application for Permit to Drill).
2. Three copies each of well location survey plats.

If this application meets with your approval, please execute and return a copy to this office.

Very truly yours,

CHAMPLIN PETROLEUM COMPANY

  
D. W. Pitchford  
District Drilling and Production Supt.

DWP:dd

Enclosures

cc: Well File w/enc.

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

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

Fee  
5. Lease Designation and Serial No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Jones

9. Well No.

I 42-5 (2-7)

10. Field and Pool, or Wildcat

Pineview Field

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

Sec. 5, T2N, R7E

12. County or Parrish 13. State

Summit Utah

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  
Champlin Petroleum Company

3. Address of Operator  
P.O. Box 700 Rock Springs, Wyoming 82901

4. Location of Well (Report location clearly and in accordance with any State requirements.\*)  
At surface SE $\frac{1}{4}$  NE $\frac{1}{4}$  589' FEL and 1906' FNL  
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*  
11 miles east of Coalville

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 160  
17. No. of acres assigned to this well 80

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. 10,500'  
19. Proposed depth 10,500'  
20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) 6411' GR  
22. Approx. date work will start\* 1 December 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 $\frac{1}{4}$ "	9-5/8"	36	3,000'	1,500 sx
8-3/4"	7" or 5 $\frac{1}{2}$ "	26 or 17	10,500'	800 sx

- Spud on or about 1 December 1977.
- Drill 12 $\frac{1}{4}$ " hole to approximately 3000'. Set 9-5/8" O.D., 36#, K-55, ST&C casing to approximately 3000' and cement from shoe back to ground level.
- WOC 12 hours. Install casing head - 3000# WP and test weld to 2000 psi. Install BOP's and choke manifold and test pipe and blind rams and manifold to 3000# and Hydril type to 1500 psi. 9-5/8" casing will be tested to 2000 psi before drilling out.
- Drill 8-3/4" hole below surface casing to total depth (10,500').
- Test and/or core all shows of oil and/or gas.
- In the event of commercial production, 7" O.D. or 5 $\frac{1}{2}$ " O.D. casing of proper design will be set through all producing zones and cemented from the shoe to 500' above the uppermost producing zone.
- Surface formation is tertiary.
- Prospective producing zones are Twin Creek at approximately 8270'.

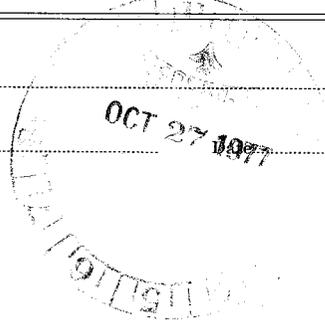
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

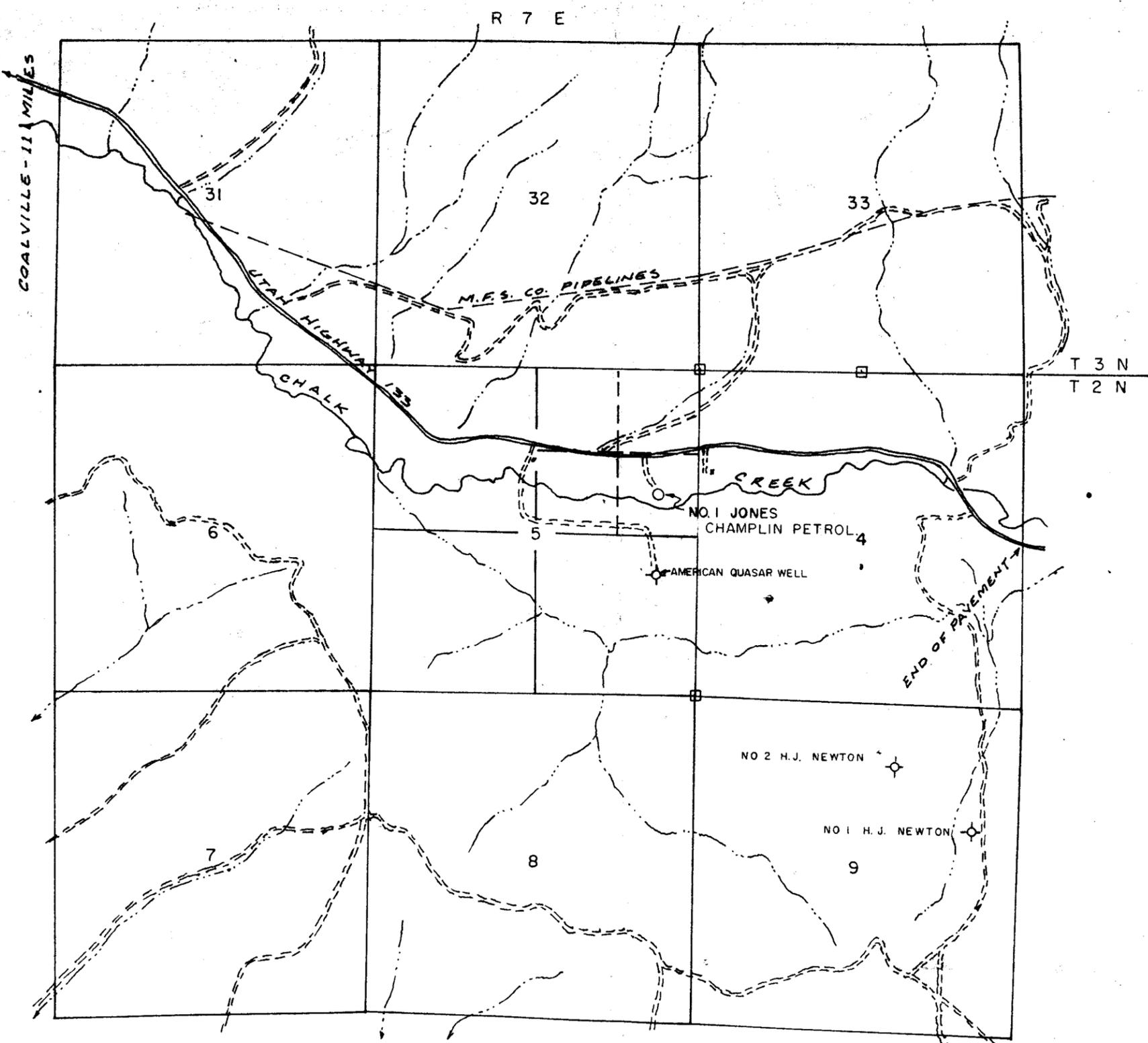
24. Signed D. W. Pritchard Title Dist. Drlg. & Prod. Supt. Date 10/26/77

(This space for Federal or State office use)

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

Approved by \_\_\_\_\_ Title \_\_\_\_\_  
Conditions of approval, if any:

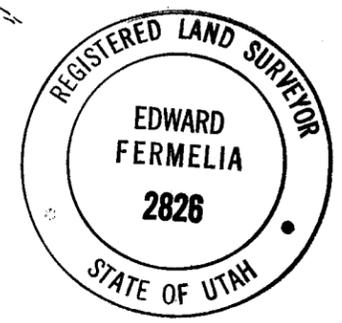




**NOTES:**

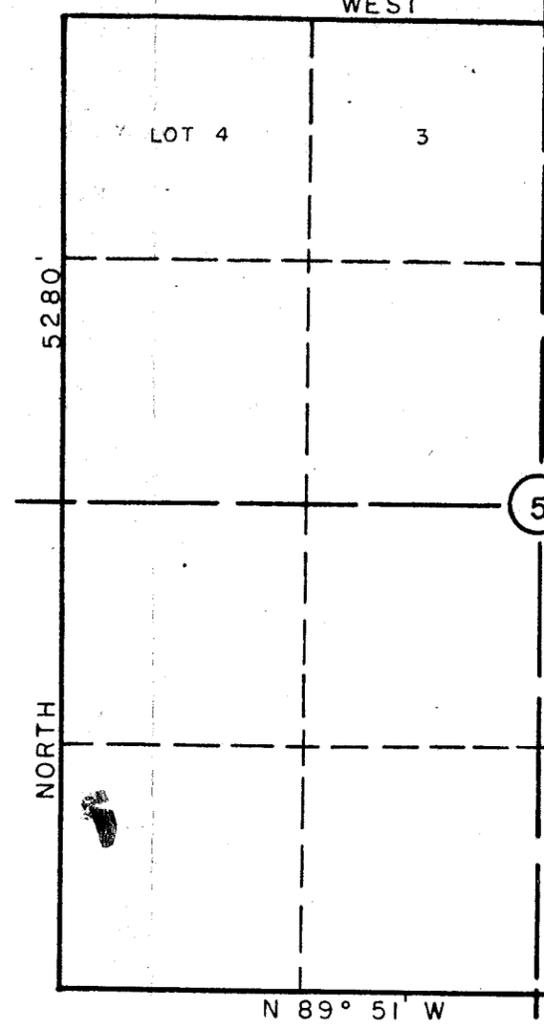
- ⊕ STONE CORNERS LOCATED
- B.M. - U.S.C. & G.S. - V 161 (1962) - ELEV. = 6410
- U.S.G.S. QUAD - UPTON

**VICINITY MAP**  
SCALE 1"=2000'



**REFERENCE POINTS**

LOCATION	ELEV.
R.P. 200' N	6410
R.P. 200' S	6409
R.P. 200' W	6407
R.P. 200' E	6414



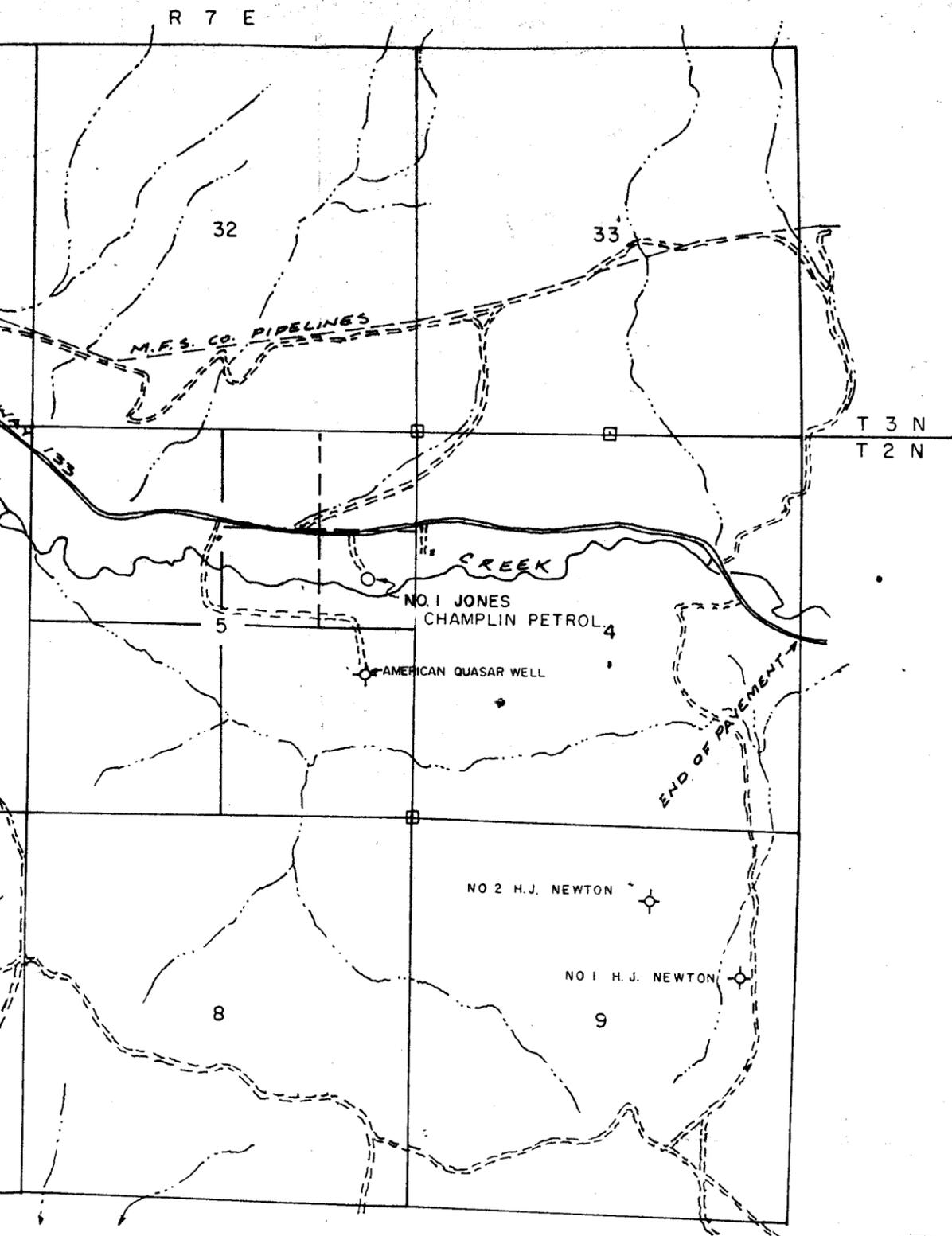
**LOCATION**  
SCALE 1"=2000'

**CERTIFICATE OF SURVEYOR**

STATE OF WYOMING }  
COUNTY OF SWEETWATER } S.S.

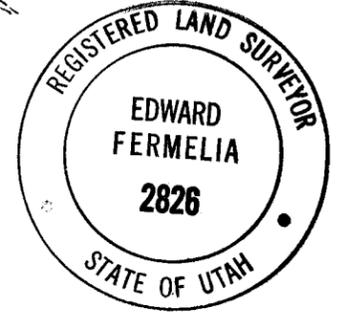
I, EDWARD FERMEIA, OF ROCK SPRINGS, WYO  
DO HEREBY CERTIFY THAT THIS MAP CORRECT  
SHOWS THE WELL LOCATION MADE FOR  
CHAMPLIN PETROLEUM CO. ON OCT. 24, 1977.

*Edward Fermelia*  
UTAH R.L.S. NO. 2826



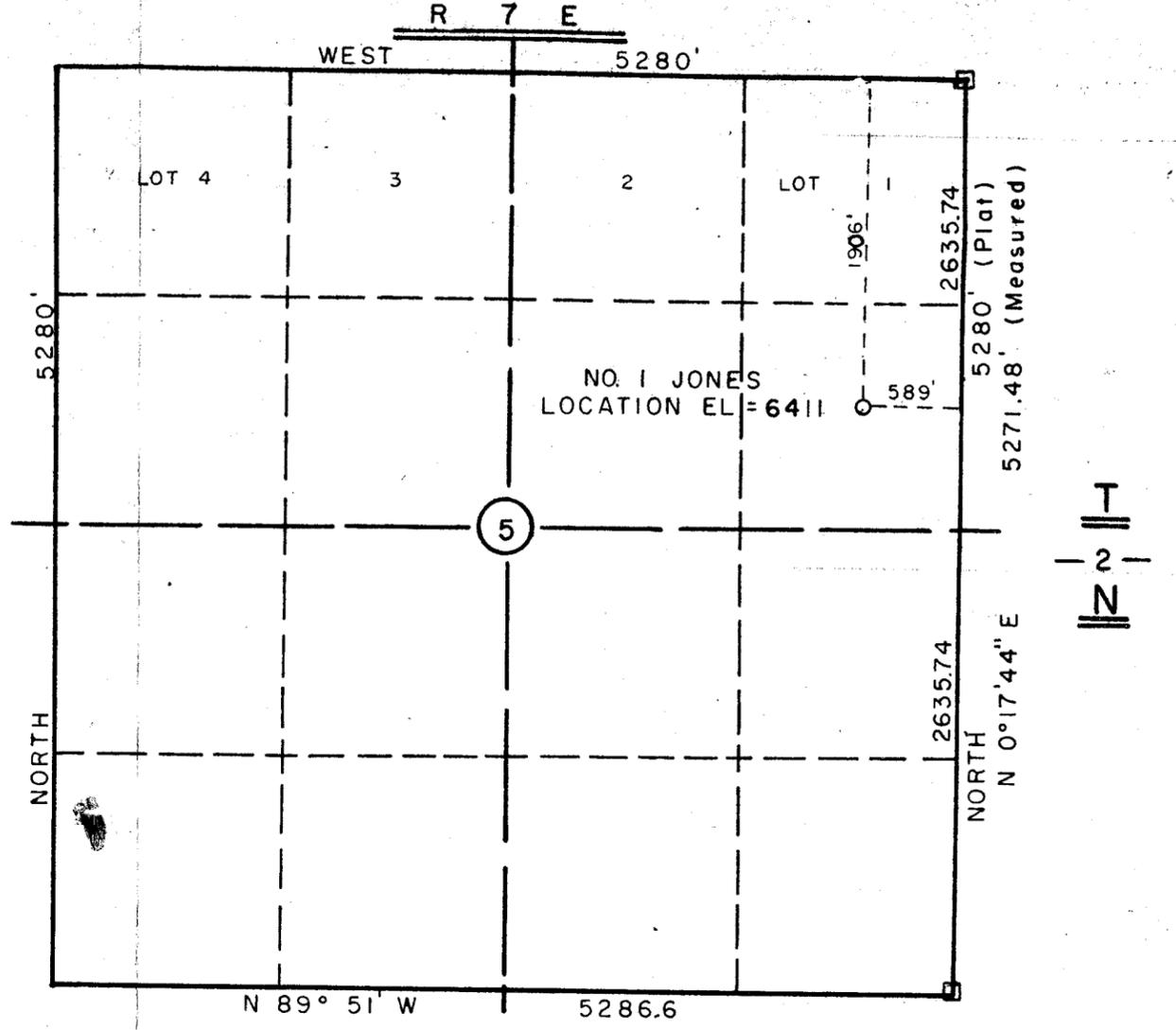
**VICINITY MAP**  
SCALE 1"=2000'

962) - ELEV. = 6410



**REFERENCE POINTS**

LOCATION	ELEV.
R.P. 200' N	6410
R.P. 200' S	6409
R.P. 200' W	6407
R.P. 200' E	6414



**LOCATION MAP**  
SCALE 1"=1000'

**CERTIFICATE OF SURVEYOR**

STATE OF WYOMING }  
 COUNTY OF SWEETWATER } S.S.  
 I, EDWARD FERMELIA, OF ROCK SPRINGS, WYOMING  
 DO HEREBY CERTIFY THAT THIS MAP CORRECTLY  
 SHOWS THE WELL LOCATION MADE FOR  
 CHAMPLIN PETROLEUM CO. ON OCT. 24, 1977.

*Edward Fermelia*  
 UTAH R.L.S. NO. 2826

**MAP**  
**SHOWING WELL LOCATION**  
**FOR**

CHAMPLIN PETROLEUM COMPANY  
 NO. 1 JONES 42-5 (2-7)  
 SE 1/4, NE 1/4, SEC. 5  
 T2N, R7E, S.L.M.  
 SUMMIT COUNTY, UTAH

JOHNSON-FERMELIA & CRANK, INC.  
 ROCK SPRINGS, WYO.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

*JK*  
*10*

\*\* FILE NOTATIONS \*\*

Date: Oct. 28 - 1977

Operator: Chaplin Petroleum

Well No: Zone #1 42-5 (2-7)

Location: Sec. 5 T. 2N R. 7E County: Summit

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API NUMBER: 43-043-30066

CHECKED BY:

Administrative Assistant *JK*

Remarks:

Petroleum Engineer \_\_\_\_\_

Remarks:

Director \_\_\_\_\_

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: *OK filed*

Survey Plat Required:

Order No. 160-9

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

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

O.K. Rule C-3

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

Other:

Letter Written/Approved

October 28, 1977

Champlin Petroleum Company  
P.O. Box 700  
Rock Springs, Wyoming 82901

Re: Well No. Jones #1 42-5 (2-7)  
Sec. 3, T. 2 N, R. 7 E,  
Summit County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 160-9.

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

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

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

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-043-30066.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

/sw

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

P 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other Temp. Aband.  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Champlin Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 700 Rock Springs, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface 1906' FNL & 589' FEL  
 At top prod. interval reported below  
 At-total depth Drilled as a straight hole.

5. LEASE DESIGNATION AND SERIAL NO.  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 7. UNIT AGREEMENT NAME  
Pineview Field  
 8. FARM OR LEASE NAME  
 9. WELL NO.  
#1 Jones 42-5 (2-7)  
 10. FIELD AND POOL, OR WILDCAT  
 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 5, T2N, R7E  
 12. COUNTY OR PARISH  
Summit  
 13. STATE  
Utah

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUDDED 12/2/77 16. DATE T.D. REACHED 3/2/78 17. DATE COMPL. (Ready to prod.) 4/30/78 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* GR 6411 19. ELEV. CASINGHEAD GR

20. TOTAL DEPTH, MD & TVD 10,168 21. PLUG, BACK T.D., MD & TVD 10,155 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS 0-T.D. CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
Twin creek 9447-9604' 25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DLL, BHC-Sonic, FDC-CNL w/GR 27. WAS WELL CORED \_\_\_\_\_

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36	2500	12 1/4"	600 sx lite 700 sx G & additives	
5-1/2"	17 & 20	10167	8-3/4"	660 50-50 poz, 410 sx 50-50	poz & additives

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	8383	

31. PERFORATION RECORDED (Interval, size and number)  
9447-9604' 1 JSPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9447-9604	Acid frac 18000# 100 mesh sand w/52,000 gal 28% HCl & 2% KCl wat

33.\* PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in)  
S.I.

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  
Electric logs

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

SIGNED C. A. Hansen TITLE Drilling Engineer DATE 5/16/78

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

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Champlin Petroleum Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 700 Rock Springs, Wyoming</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1906' FNL &amp; 589' FEL</p>		<p>5. LEASE DESIGNATION AND SERIAL NO.</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Pineview Field</p> <p>8. FARM OR LEASE NAME</p> <p>9. WELL NO. #1 Jones 42-5 (2-7)</p> <p>10. FIELD AND POOL, OR WILDCAT</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T2N, R7E</p> <p>12. COUNTY OR PARISH   13. STATE Summit   Utah</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR-6411</p>	

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

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

Due to collapsed casing, well will not be a producer. The well has been temporarily abandon until final plans as to whether to use it as a water disposal well or completely abandon it.

Champlin will keep you posted as to future operations and plans.

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

SIGNED C. A. Hansen TITLE Drilling Engineer DATE 5/16/78

(This space for Federal or State office use)

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

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

**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.)

<p>1. <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/></p> <p>2. <b>NAME OF OPERATOR</b> Champlin Petroleum Company</p> <p>3. <b>ADDRESS OF OPERATOR</b> P.O. Box 700 Rock Springs, Wyoming</p> <p>4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1906' FNL &amp; 589' FEL</p>		<p>5. <b>LEASE DESIGNATION AND SERIAL NO.</b></p> <p>6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b></p> <p>7. <b>UNIT AGREEMENT NAME</b> Pineview Field</p> <p>8. <b>FARM OR LEASE NAME</b></p> <p>9. <b>WELL NO.</b> #1 Jones 42-5 (2-7)</p> <p>10. <b>FIELD AND POOL, OR WILDCAT</b></p> <p>11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> Sec. 5, T2N, R7E</p> <p>12. <b>COUNTY OR PARISH</b> 18. <b>STATE</b> Summit Utah</p>
<p>14. <b>PERMIT NO.</b></p>	<p>15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) GR-6411</p>	

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

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

Due to collapsed casing, well will not be a producer. The well has been temporarily abandon until final plans as to whether to use it as a water disposal well or completely abandon it.

Champlin will keep you posted as to future operations and plans.

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

SIGNED C. A. Hansen TITLE Drilling Engineer DATE 5/16/78  
C. A. Hansen

(This space for Federal or State office use)

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

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other Salt Water Disposal  
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other Convert to Water Disposal Well

2. NAME OF OPERATOR American QUASAR Pet. Co. (as of Dec. '79)  
~~Champlin Petroleum Company~~

3. ADDRESS OF OPERATOR  
P.O. Box 700 Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1906' FNL & 589' FEL, SE NE  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-043-30066 DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME Pineview Field  
8. FARM OR LEASE NAME  
9. WELL NO.  
10. FIELD AND POOL, OR WILDCAT #1 Jones 42-5 (2-7)  
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 5, T2N, R7E

12. COUNTY OR PARISH Summit 13. STATE Utah

15. DATE SPUDED 12/1/77 16. DATE T.D. REACHED 3/2/78 17. DATE COMPL. (Ready to prod.) 8/6/79 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6426' RKB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 10,168' 21. PLUG, BACK T.D., MD & TVD 6,450' 22. IF MULTIPLE COMPL., HOW MANY\* → 23. INTERVALS DRILLED BY → ROTARY TOOLS 82' - T.D. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 6,262-6,404' (Stump Formation) Converted to Water Disposal Well  
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN No re-entry logs 27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	Conductor	82'		8 yds. cement	none
9-5/8"	36#	2500'	12 1/4"	700 sx "G"	none
5-1/2"	17# & 20#	10168'	8-3/4"	600 sx Lite 660 sx 50-50 Poz 410 sx 50-50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	6217'	6217'

31. PERFORATION RECORD (Interval, size and number)

Interval	Size	Number
6262-6272'	1 JSPF	-.46"
6273-6302'	2 JSPF	-.46"
6340-6360'	2 JSPF	-.46"
6384-6393'	2 JSPF	-.46"
6394-6404'	1 JSPF	-.46"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3928-3936	Squeeze w/200 sx class "G"
4136'	Squeeze w/275 sx class "G"
6184-6198'	Squeeze w/200 sx class "G"

33.\* PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) Water Disposal Well

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				

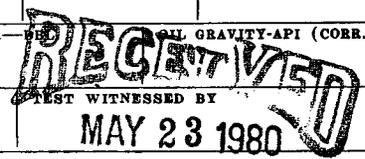
FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE → \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. \_\_\_\_\_ WATER—BBL. \_\_\_\_\_ GRAVITY-API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY MAY 23 1980

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 R. L. Alinger TITLE District Engineer DATE May 19, 1980

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



Form UIC 10  
August, 1982

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
4241 State Office Building  
Salt Lake City, Utah 84114

WELL INTEGRITY REPORT

Date 3/30/83

Water Disposal Well  Enhanced Recovery Well \_\_\_\_\_ Other \_\_\_\_\_

DOGM/UIC Cause Number \_\_\_\_\_

Company American Quasar

Address \_\_\_\_\_

City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

Lease Name or Number \_\_\_\_\_ Well Name or Number JONES #1-425

API Well Number 43-043-30066 Location SE 1/4 of NE 1/4 of \_\_\_\_\_

Section 5 Township 2N Range 7E County Summit

Present at Completion: \_\_\_\_\_ Yes  No \_\_\_\_\_

Casing Tested in My Presence:  Yes \_\_\_\_\_ No Pressure 1000 PSI 15 Minutes

Packer Tested in My Presence:  Yes \_\_\_\_\_ No Pressure 1000 PSI 15 Minutes

Surface-Prod. Csg. Annulus \_\_\_\_\_ PSI Prod. Csg.-Tubing Annulus 1000 PSI

Disposed/Injected Water Sample Taken:  
\_\_\_\_\_ Yes  No (Attach water analysis when obtained)

This well seems to be completed in accordance with DOGM Rule I:  
Yes  No \_\_\_\_\_. If NO, write report.

Remarks: 950psi on tubing  
Rate = 570 bbls last 12 hrs.

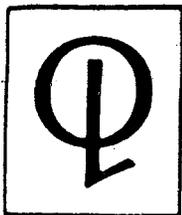
I hereby certify that this report is true and complete to the best of my knowledge.

Name of Operator \_\_\_\_\_

\_\_\_\_\_  
(Signature) (Title)

[Signature]  
DOGM Field Inspector

CRT



# AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.  
TELEPHONE (303) 861-8437

September 22, 1983

State of Utah  
Division of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

RECEIVED  
SEP 23 1983

Attention: Gilbert L. Hunt

DIVISION OF  
OIL, GAS & MINING

Subject: Rule I-4, Existing Injection Wells,  
Pineview Field, Summit County, Utah

Gentlemen:

We have attached the information requested in your letter dated August 9, 1983 in order to complete our application under Rule I-4. The following information is provided:

1. Schematic wellbore sketches attached:
  - Bingham 10-3
  - Boyer 34-1
  - Jones 42-5
  - UPRR 5-1\*
  - UPRR 11-1
  - UPRR 15-1
- \*State to witness tubing-annular test
2. The Nugget fracturing gradient is  $\pm .7$  to  $.75$  psi/ft based upon fracture stimulations in the UPRR 5-1 (Twin Creek) and the Howell Livestock 26-31 (Nugget). The Stump fracture gradient is  $.922$  psi/ft based on recent acid breakdowns in the Clark 4-1, UPRR 9-1 and Newton Sheep 4-9S.
3. High-low pressure switches are installed which will shut down the injection pumps. Field personnel check injection stations a minimum of three times daily.
4. Representative produced, DST and injection water analyses are attached.
5. The Pineview Field is an east-west trending anticline on the hanging wall of the northeast-southwest trending Absaroka Thrust fault. The Nugget and Twin Creek formations, which produce at Pineview, are cut off by the Absaroka on the east side of the structure. On the north flank the same formations are faulted up relative to the north Pineview anticline in Sections 26 and 35. The south flank has dips of  $7^\circ$  to  $15^\circ$  into a syncline separating it from the Elkhorn structure.

Smaller subsidiary faults parallel to the Absaroka cut the Pineview

7

STATE OF UTAH  
 DIVISION OF OIL, GAS, AND MINING  
 ROOM 4241 STATE OFFICE BUILDING  
 SALT LAKE CITY, UTAH 84114  
 (801) 533-5771  
 (RULE 1-5 & RULE 1-4)

FORM NO. DOGM-UIC-1  
 (Revised 1982)

IN THE MATTER OF THE APPLICATION OF  
American Quasar Petroleum Co.  
 ADDRESS 1700 Broadway #707  
Denver, CO ZIP 80290  
 INDIVIDUAL  PARTNERSHIP  CORPORATION   
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR  
 INJECT FLUID INTO THE #1 Jones 42-5 WELL  
 SEC. 5 TWP. 2N RANGE 7E  
Summit COUNTY, UTAH

CAUSE NO. 160-13

ENHANCED RECOVERY INJ. WELL	<input type="checkbox"/>
DISPOSAL WELL	<input checked="" type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE 1-4)	<input type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule 1-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>#1 Jones</u>	Well No. <u>42-5</u>	Field <u>Pineview</u>	County <u>Summit</u>
Location of Enhanced Recovery Injection or Disposal Well <u>1906 FNL 589 FEL Sec. 5</u> Twp. <u>2N</u> Rge. <u>7E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>3/30/83</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>2900'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	State What <u>Oil</u>	
Location of Injection Source(s) <u>Pineview Field</u>	Geologic Name(s) and Depth of Source(s) <u>Twin Creek (-3500' elev)</u> <u>Nugget (-4500' elev)</u>		
Geologic Name of Injection Zone <u>Stump</u>	Depth of Injection Interval <u>6262</u> to <u>6435'</u>		
a. Top of the Perforated Interval: <u>6262</u>	b. Base of Fresh Water: <u>2900</u>	c. Intervening Thickness (a minus b) <u>3362</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Lithology of Intervening Zones <u>Sandstone, siltstone and shale</u>			
Injection Rates and Pressures Maximum <u>10,000</u> B/D <u>2,500</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			
<u>Champlin Petroleum Co.</u>		<u>P.O. Box 1257 Englewood, CO 80150</u>	
<u>Newton Sheep Company</u>		<u>c/o Steve Stewart 1675 N. 200 W. Provo, UT 84601</u>	
<u>M. Clark/L. Potter</u>		<u>3410 E. Chalk Creek Road Coalville, UT 84017</u>	

State of Colorado

County of Denver

*John D. Dolan*  
 John D. Dolan Applicant  
 Div. Production Manager  
 John D. Dolan

Before me, the undersigned authority, on this day personally appeared John D. Dolan known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 20th day of July, 1983

SEAL

My commission expires 9/15/85

*David R. Blum*  
 Notary Public in and for Denver, Colorado

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	20"	82'	8 yards	Surface	
Intermediate	9 5/8"	2500'	1300 sx	Surface	Circulation
Production	5 1/2"	10167'	1745 sx	5920'	Bond Log
Tubing			Name - Type - Depth of Tubing Packer		
<b>Total Depth</b> 10167'	<b>Geologic Name - Inj. Zone</b> Stump	<b>Depth - Top of Inj. Interval</b> 6262'	<b>Depth - Base of Inj. Interval</b> 6435'		

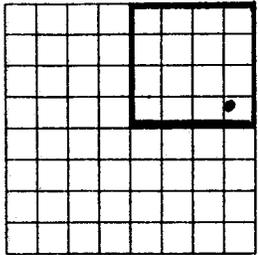
(To be filed within 30 days after drilling is completed)

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

DIVISION OF OIL, GAS, AND MINING  
Room 4241 State Office Building  
Salt Lake City, Utah 84114

API NO. 43-043-30066

640 Acres  
N



Locate Well Correctly  
and Outline Lease

COUNTY  
LEASE NO.

COUNTY Summit SEC. 5 TWP. 2N RGE. 7E  
COMPANY OPERATING American Quasar Petroleum  
OFFICE ADDRESS 1700 Broadway #707  
TOWN Denver STATE CO ZIP 80290  
FARM NAME #1 Jones WELL NO. 42-5  
DRILLING STARTED 12/1 19 77 DRILLING FINISHED 3/2 19 78  
DATE OF FIRST PRODUCTION N/A COMPLETED 5/19/80  
WELL LOCATED SE 1/4 SE 1/4 NE 1/4  
1906' FT. FROM W-DK 1/4 SEC 5 & 589' FT. FROM W-DK 1/4 SEC 5  
ELEVATION DERRICK FLOOR 6426 GROUND 6411

TYPE COMPLETION

Single Zone XX  
Multiple Zone \_\_\_\_\_  
Comingled \_\_\_\_\_

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To

CASING & CEMENT

Casing Set			Csg. Test	Cement			
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
20"	Conductor		82		8 yds.		Surface
9 5/8"	35#	H-40	2500		1300		Surface
5 1/2"	17 & 20#	P110 K55 N80	10167	1000	1745		5920'

TOTAL DEPTH 10169

PACKERS SET  
DEPTH 6217'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

1 2 3

FORMATION	1	2	3
SPACING & SPACING ORDER NO.	Stump		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Injection well		
PERFORATED	6262-6302		
INTERVALS	6340-6360		
	6384-6435		
ACIDIZED?	10,000 gal 15% HCl		
FRACTURE TREATED?			

INITIAL TEST DATA

Completed as injection well 5/14/80

Date			
Oil, bbl./day			
Oil Gravity			
Gas, Cu. Ft./day	CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.			
Water-Bbl./day			
Pumping or Flowing			
CHOKE SIZE			
FLOW TUBING PRESSURE			

A record of the formations drilled through, and pertinent remarks are presented on the reverse.

(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone 303/861-8437 John D. Dolan, Division Production Mgr.

Name and title of representative of company

Subscribed and sworn before me this 20th day of July, 19 83

AQP, et al

32

33

M. Clark, L. Potter

UPRR

CHAMPLIN

AQP, et al

AQP  
4-8S  
▼

AQP, et al

State

1/2 MILE  
Radius

CHAMP  
1 Jones 42-5  
○

AQP  
4-6 Newton Sheep  
+

AQP, et al

AQP  
4-9S  
▼

UPRR

AQP, et al

Newton Sheep Co.

4

AQP  
4-10S  
▼

AQP  
1 Newton Sheep  
○

AQP  
5-1 UPRR  
▼

**T3 N-R 7 E**  
**EXHIBIT I**

AMERICAN QUASAR PETROLEUM CO.

AQP  
4-1 Clark  
●

**PINEVIEW FIELD**

SUMMIT COUNTY, UTAH

EXISTING 1 JONES 42-5

SALT WATER DISPOSAL WELL

UPRR

M. Clark

1" = 1,000'

8-25-82

# PETRO-LOG, INCORPORATED

SERVING THE ROCKY MOUNTAIN AREA

DATE 2/26/80 WELL NO. 1-42-5 LEASE CHAMPLIN-JONES FIELD PINEVIEW

LOCATION 1906 FNL 589 FEL (SE NE) SEC 5 2N 7E

6426 KB  
6411 GL

404  
262  

---

142

9<sup>5</sup>/<sub>8</sub>" @ 2500'

WANSHIP (FRONTIER)

3928 - 3936 SQZ'D

4136 - 4 HOLES SQZ PERFS

STUMP

6184 - 6198

OTIS 5<sup>1</sup>/<sub>2</sub>" MH PKR @ 6217

6262 - 6302

6340 - 6360

6384 - 6435

JNK'D CIBP @ 6450

6500' SQZ PERFS

CIBP @ 7000'

5<sup>1</sup>/<sub>2</sub>" COLLAPSED @ 8480'

CSG. TO 10,167

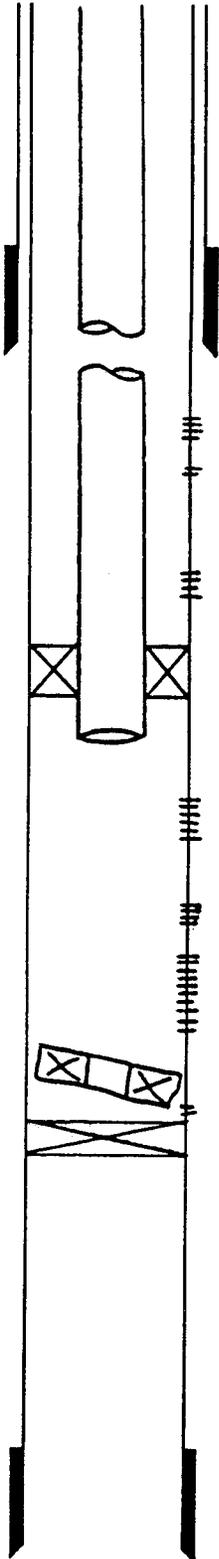
TUBING  
2<sup>7</sup>/<sub>8</sub>" 6.5# N-80 SRD.  
IPC w/ TUBOSCOPE TK-69

5<sup>1</sup>/<sub>2</sub>" CASING

20# P110 SURF TO 55'

17# K-55 55 TO 6255

17# N-80 6255 TO 10,167



 BRIDGE PLUG
 
 PACKER
  CENTRALIZER
  SCRATCHER
  BASKET
  PERFORATION

(Use reverse side for additional remarks & sketches.)

anticline on the east and west sides. There is about 2650 feet of structural closure, of which 1060 feet was originally oil productive in the Nugget.

The Nugget formation is 1054 feet thick in the American Quasar UPRR 3-2 well in NW SW Section 3, T2N-R7E. The Nugget is an Aeolian sand with variable porosity in the upper half and generally tight in the lower half.

Below the Nugget is the Ankareh formation, composed of thin bedded red sands and shales. It is considered impermeable to vertical fluid migration.

Above the Nugget is the Twin Creek formation. It is 1303 feet of hard, dense shaly limestone. At the base of the Twin Creek is the Gypsum Spring member. It is about 50 feet thick and consists of interbedded shale, anhydrite and limestone. It forms a barrier on the Nugget sand to vertical fluid migration.

The Stump formation is 500 to 950 feet thick and is from 5200 to 6700 feet deep at Pineview. The structure map shows the formation to be very broken up with northeast-southwest normal and reverse faults.

The Stump is composed of interbedded sandstone, conglomerate, shales and siltstone. The sands are discontinuous and have variable porosity and permeability. The oil production is presently confined to the west side of the structure in Section 4, and northwest corner of Section 3.

Two structure maps are attached showing the Nugget and Stump formations. We have also attached our calculations, showing that parting pressure is not achieved in either the Stump or Nugget formations.

6. A review of our drilling and production records in the Pineview Area show little or no fresh water influx occurs below  $\pm 1500$  feet. Although not a fixed number, we have consistently doubled this distance to 2900 to 3000 feet. The only drinking water source wells (USDW) in the area are less than 200 feet deep.

We trust this additional information will complete our application.

Very truly yours,



John D. Dolan  
Division Production Manager

JDD:sb  
attachments

9/29/83

Pursuant to Rule I-5 (b) 4 & 5 the following information and discussion is provided for the Stump and Nugget formations:

	<u>Stump</u>	<u>Nugget</u>
A. <u>Formation Properties</u>		
Average depth to top of injection (elev.)	6377 ( $\pm 400'$ )	10,274 (-3787)
Average gross injection thickness (feet)	315	76
Lithology	Siltst-Sdst	Sdst
Average permeability (k)	28 md	5.2 md
Average porosity ( $\emptyset\%$ )	10.3	11.8
Formation temperature ( $^{\circ}\text{F}$ )	$\pm 145^{\circ}$	$\pm 175^{\circ}$
Fracture gradient (psi/ft)	.922	.7-.75
S.G. of injected water	1.04	1.04
Hydrostatic gradient of injected water	.4515	.4515
Maximum allowable surface pressure (psi)	2500	2500
Maximum rate (BWPd)	10,000	10,000

B. Injection Pressure at the formation

$$P_1 = P_2 - P_3 + P_4$$

Where:

$P_1$  = injection pressure at formation

$P_2$  = hydrostatic pressure

$P_3$  = loss due to friction

$P_4$  = maximum surface injection pressure

$P_5$  = fracturing pressure

Stump

$$P_1 = (6377)(.4515) - 100 + 2500$$

$$= 5279 \text{ psi}$$

$$P_5 = (.92)(6377)$$

$$= 5867 \text{ psi}$$

$$P_5 - P_1 = 588 \text{ psi below}$$

Nugget

$$P_1 = (10,274)(.4515) - 200 + 2500$$

$$= 6939 \text{ psi}$$

$$P_5 = (.7)(10,274)$$

$$= 7192 \text{ psi}$$

$$P_5 - P_1 = 253 \text{ psi below}$$

C. Pineview average injection rate  $\pm 14,000$  BWPd for 6 wells or approximately  $\pm 2400$  BWPd per well.

D. Calculations of Injection Yearly Volumes.

$$V_1 = 2400 \text{ (bbl/day} \times 365 \text{ day/yr} = 8.76 \times 10^6 \text{ bbl/yr per well}$$

e. Calculation of Stump and Nugget storage

$$V_2 = \emptyset \times h(\text{ft}) \times 43,560 \left(\frac{\text{ft}^2}{\text{A}}\right) \times \frac{1}{5.614} \left(\frac{\text{bbl}}{\text{ft}^3}\right) \times 1 \frac{\text{bbl}}{\text{bbl}}$$

6 4 8 4  
 6 1 8 4  
 3 2 4

$$\begin{aligned} \text{Stump } V_2 &= (.103)(315)(43560) \left( \frac{1}{5.614} \right) (1) \\ &= \underline{251746} \frac{\text{bbl}}{\text{acre}} \end{aligned}$$

$$\begin{aligned} \text{Nugget } V_2 &= (.118)(76)(43560) \left( \frac{1}{5.614} \right) (1) \\ &= \underline{69,584} \frac{\text{bbl}}{\text{acre}} \end{aligned}$$

F. Acres of Influence

$$A \text{ (acres/yr)} = \frac{V_1}{V_2}$$

$$\begin{aligned} \text{Stump } A &= \frac{876,000 \text{ (bbl/yr)}}{251,746 \text{ (bbl/ac)}} \\ &= 3.5 \frac{\text{acres}}{\text{year}} \end{aligned}$$

$$\begin{aligned} \text{Nugget } A &= \frac{876,000}{69,584} \\ A &= 12.6 \frac{\text{acres}}{\text{year}} \end{aligned}$$

G. Assume 20 years injection

$$\text{Stump } (3.5) \times (20) \times 69.59 \text{ acres} \quad \text{Nugget } (12.6) \times (20) = 151.07 \text{ acres}$$

H. Radius of Influence at 20 years

$$R = \sqrt{\frac{(A)(43,560)}{\pi}}$$

$$\begin{aligned} \text{Stump } R &= \sqrt{\frac{(69.59)(43560)}{\pi}} \\ &\approx 982 \text{ feet} \end{aligned}$$

$$\begin{aligned} \text{Nugget } R &= \sqrt{\frac{(151.07)(43,560)}{\pi}} \\ &\approx 1447 \text{ feet} \end{aligned}$$

I. Injected waters are anticipated to be wholly contained in the Nugget and Stump formations.



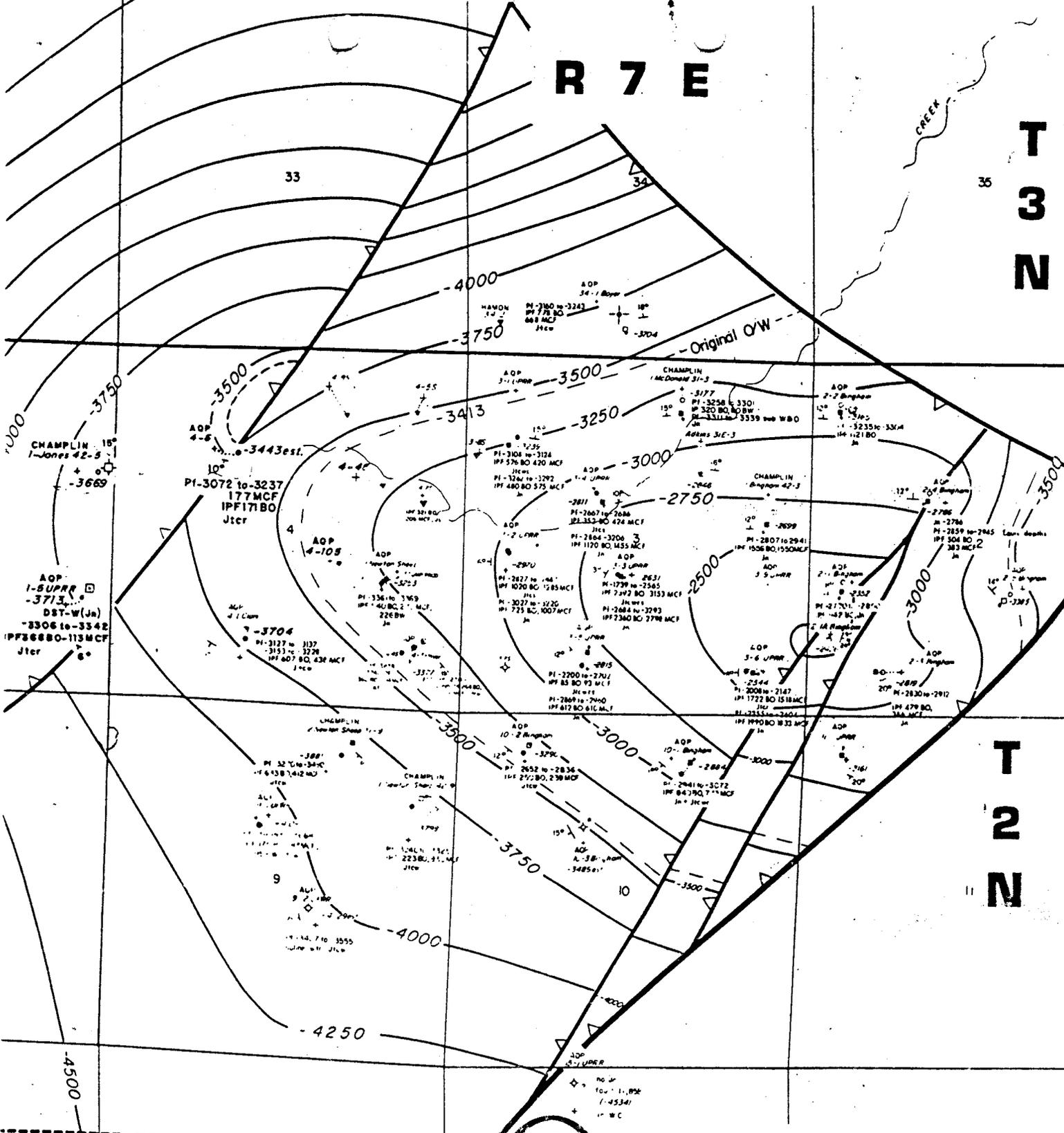
R 7 E

T 3 N

35

11

T 2 N



AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO  
 707 United Bank Building 1700 Broadway, Denver, Colorado 80202 Phone 303 667-8437

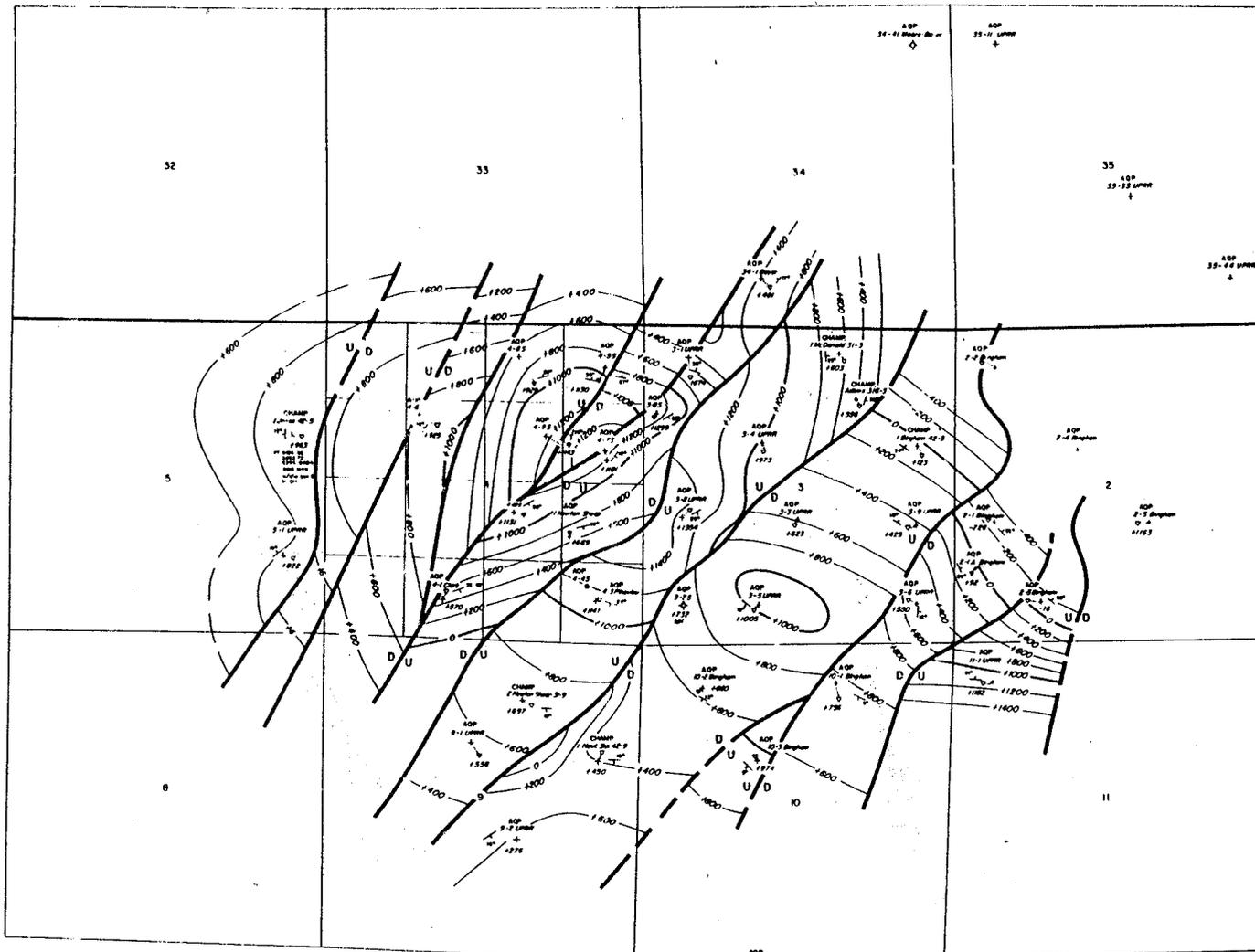
**PINEVIEW AREA**  
 SUMMIT COUNTY, UTAH  
 STRUCTURE CONTOUR MAP

ON NUGGET FORMATION  
 C.I. : 250'

SCALE 1" = 2,000'

DESIGNED BY T.R. BLAZZARD	DRAWN BY DM	DATE 9-13-83
------------------------------	----------------	-----------------

R 7 E



T 3 N

T 2 N

WELL SYMBOLS

- + SURFACE LOCATION
- ● KELVIN LOC. (PROD.)
- ◇ STUMP TOP (PRODUCTION)

STUMP PRODUCTION DATA

1-North Slope Per 1 958 to 1541 IPF 1166 BO, 702 MCF, 6 BWPD
3-88 Per 1 4700 to 4653 IPF 1326 BO, 111 MCF GPD
4-53 Per 1 5891-5920, 8055-8005 IPF 397 BO, 276 MCF GPD
4-78 Per 1 1812 to 1582 IPF 321 BO, 206 MCF GPD
4-88 Per 1 5970-84, 8036-14, 8040-54 IPF 824 BO, 350 MCF GPD
4-93 Per 1 5470-6146 Gross IPF 848 BO, 502 MCF GPD



AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO  
1717 West Park Building, 1716 Broadway, Santa Fe, New Mexico 87501

**PINEVIEW FIELD**  
SUMMIT COUNTY, UTAH  
STRUCTURE: TOP STUMP FORMATION  
CONTOUR INTERVAL 200'

DATE	SCALE	PROJ.	DRWN. BY	REVISED
1-30-80			DM	7-17-62

BASIN LABORATORIES  
75 W. 200 N. (73-10)  
Roosevelt, UT 84066  
(801) 722-4511

CERTIFICATE OF ANALYSIS  
Water Analysis Report

Date: March 22, 1983

Company: American Quasar

Laboratory Number: 830069

Sample Description: Water Disposal Water

Sample Date: March 10, 1983

Submitted by: Paul Smith

Component	mg/l (ppm)	Eqq/l
Calcium (Ca+2)	1520	76.0
Magnesium (Mg+2)	206	17.2
Sodium (Na+)		
Bicarbonate (HCO3--)	170	2.8
Carbonate (CO3-2)	0	0
Chloride (Cl-)	24200	661.7
Sulfate (SO4-2)	140	1.5

Total Alkalinity (as Calcium Carbonate): 279 mg/l

Total Hardness (as Calcium Carbonate): 4660 mg/l

pH: 7.02

Resistivity (Ohm-cm): Not determined

BASIN LABORATORIES  
75 W. 200 N. (73-10)  
Roosevelt, UT 84066  
(801) 722-4511

CERTIFICATE OF ANALYSIS  
Water Analysis Report

Date: March 22, 1983

Company: American Quasar

Laboratory Number: 8300~~6~~70

Sample Description: Water Disposal Water

Sample Date: March 10, 1983

Submitted by: Paul Smith

Component	Mg/l (ppm)	Meq/l
Calcium (Ca+2)	1100	55.0
Magnesium (Mg+2)	192	16.0
Sodium (Na+)		
Bicarbonate (HCO3-)	286	4.7
Carbonate (CO3-2)	0	0
Chloride (Cl-)	18500	521.1
Sulfate (SO4-2)	178	1.9

Total Alkalinity (as Calcium Carbonate): 469 mg/l

Total Hardness (as Calcium Carbonate): 3550 mg/l

pH: 7.57

Resistivity (Ohm-m): 0.238

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

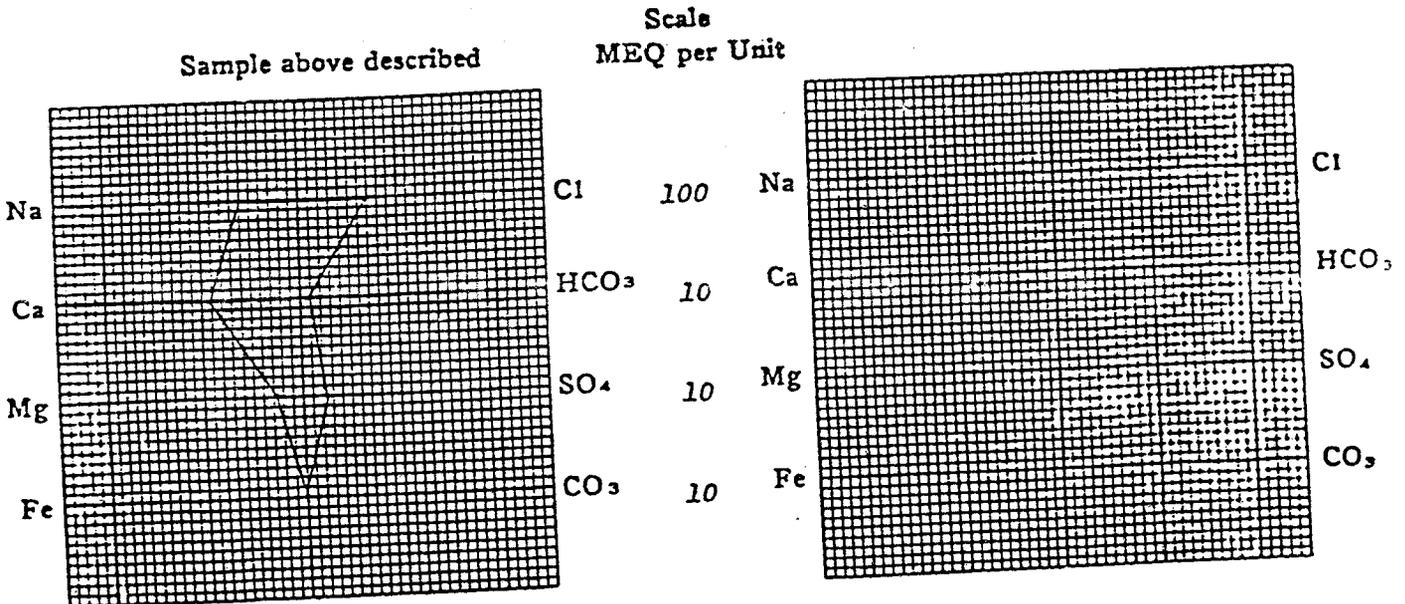
## WATER ANALYSIS REPORT

OPERATOR American Quasar Petroleum Co. DATE August 30, 1978 LAB NO. 28468-5  
 WELL NO. 3-3 LOCATION \_\_\_\_\_  
 FIELD Pineview FORMATION Nugget  
 COUNTY Summit INTERVAL \_\_\_\_\_  
 STATE Utah SAMPLE FROM Production (8-10-78)

REMARKS & CONCLUSIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	14192	617.35	Sulfate	1275	26.52
Potassium	670	17.15	Chloride	25400	716.28
Lithium			Carbonate	-	-
Calcium	1803	89.97	Bicarbonate	451	7.40
Magnesium	313	25.73	Hydroxide	-	-
Iron	present		Hydrogen sulfide	-	-
Total Cations			Total Anions		
750.20			750.20		
Total dissolved solids, mg/l			Specific resistance @ 68°F.:		
43875			Observed		
NaCl equivalent, mg/l			Calculated		
43360			0.210 ohm-meters		
Observed pH			0.165 ohm-meters		
6.9					

### WATER ANALYSIS PATTERN



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

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

OPERATOR American Quasar Petroleum Co. DATE September 29, 1978 LAB NO. 28805-3  
 WELL NO. UPRR 3-4 LOCATION \_\_\_\_\_  
 FIELD Pineview FORMATION Nugget  
 COUNTY Summit INTERVAL \_\_\_\_\_  
 STATE Utah SAMPLE FROM Treater {9-14-78}

REMARKS & CONCLUSIONS:

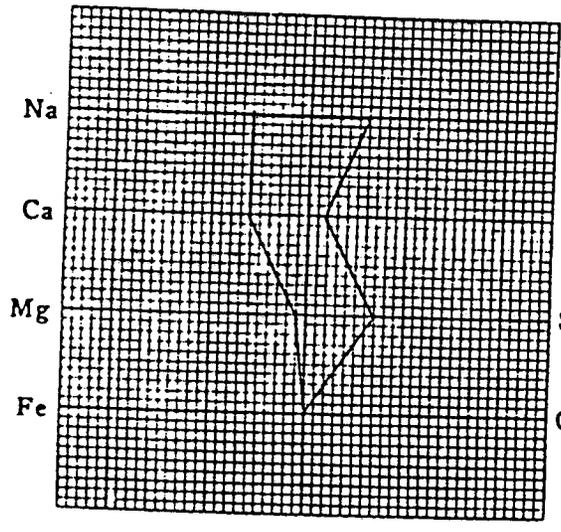
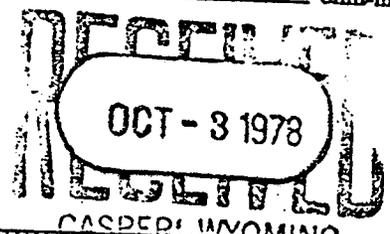
Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	7740	336.71	Sulfate	1850	38.48
Potassium	465	11.90	Chloride	12100	341.22
Lithium			Carbonate	-	
Calcium	690	34.43	Bicarbonate	610	10.00
Magnesium	81	6.66	Hydroxide		
Iron			Hydrogen sulfide		
<b>Total Cations</b>		<b>389.70</b>	<b>Total Anions</b>		<b>389.70</b>

Total dissolved solids, mg/l 23226  
 NaCl equivalent, mg/l 22212  
 Observed pH 7.2

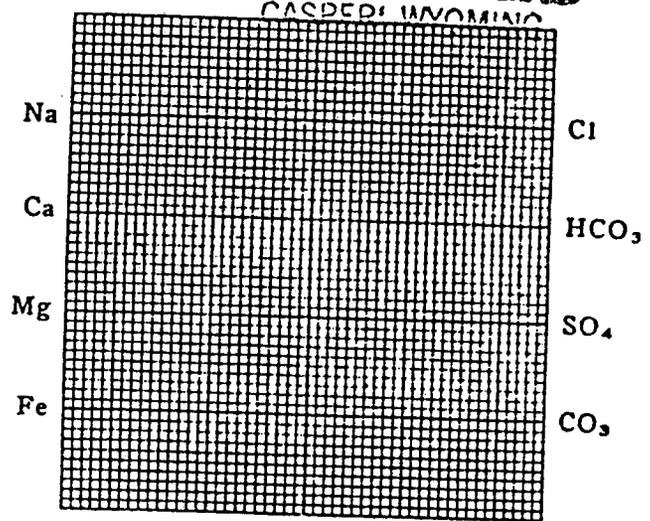
Specific resistance @ 68°F.:  
 Observed 0.33 ohm-meters  
 Calculated 0.30 ohm-meters

### WATER ANALYSIS PATTERN

Sample above described  
 Scale  
 MEQ per Unit



Cl 50  
 HCO<sub>3</sub> 5  
 SO<sub>4</sub> 5  
 CO<sub>3</sub> 5



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

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

OPERATOR <u>American Quasar Petroleum Co.</u>	DATE <u>January 24, 1979</u> LAB NO. <u>29846-2</u>
WELL NO. <u>3-7S Pineview</u>	LOCATION <u>SW SW 3-2N-7E</u>
FIELD <u>Pineview</u>	FORMATION <u>STUMP</u>
COUNTY <u>Summit</u>	INTERVAL <u>6061-6271</u>
STATE <u>Utah</u>	SAMPLE FROM <u>DST No.1 (Middle) 12-6-78</u>

REMARKS & CONCLUSIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

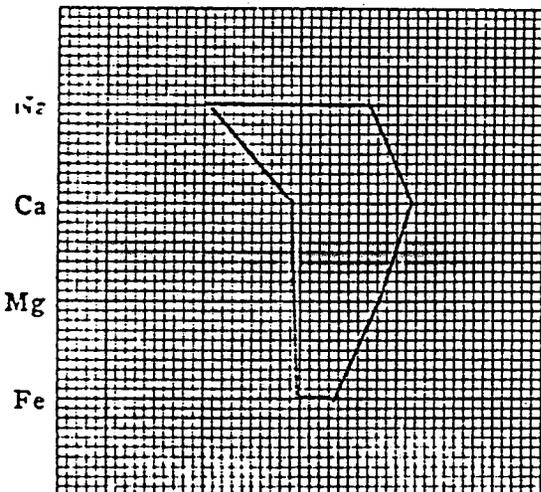
Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium - - - - -	<u>2156</u>	<u>93.78</u>	Sulfate - - - - -	<u>390</u>	<u>8.11</u>
Potassium - - - - -	<u>23</u>	<u>0.59</u>	Chloride - - - - -	<u>2570</u>	<u>72.47</u>
Lithium - - - - -	<u>    </u>	<u>    </u>	Carbonate - - - - -	<u>108</u>	<u>3.60</u>
Calcium - - - - -	<u>16</u>	<u>0.80</u>	Bicarbonate - - - - -	<u>695</u>	<u>11.40</u>
Magnesium - - - - -	<u>5</u>	<u>0.41</u>	Hydroxide - - - - -	<u>    </u>	<u>    </u>
Iron - - - - -	<u>-</u>	<u>    </u>	Hydrogen sulfide - - - - -	<u>-</u>	<u>    </u>
Total Cations - - - - -	<u>    </u>	<u>95.58</u>	Total Anions - - - - -	<u>    </u>	<u>95.58</u>

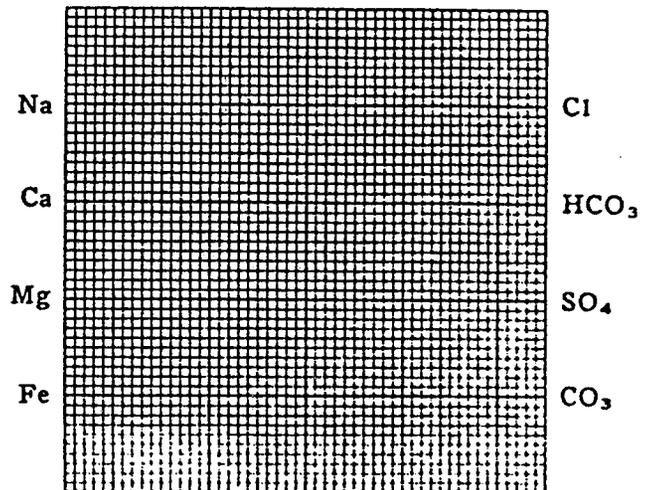
Total dissolved solids, mg/l - - - - - <u>5610</u>	Specific resistance @ 68°F.:
NaCl equivalent, mg/l - - - - - <u>5293</u>	Observed - - - - - <u>1.24</u> ohm-meters
Observed pH - - - - - <u>8.7</u>	Calculated - - - - - <u>1.22</u> ohm-meters

### WATER ANALYSIS PATTERN

Sample above described      Scale  
MEQ per Unit



Cl 10  
HCO<sub>3</sub> 1  
SO<sub>4</sub> 1  
CO<sub>3</sub> 1



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

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

OPERATOR <u>American Quasar Petroleum Co.</u>	DATE <u>July 10, 1979</u>	LAB NO. <u>31327-3</u>
WELL NO. <u>UPRR 3-8S</u>	LOCATION _____	
FIELD _____	FORMATION <u>KELVIN</u>	
COUNTY _____	INTERVAL <u>3090-3197</u>	
STATE _____	SAMPLE FROM <u>DST No. 1 {Sampler}</u>	

REMARKS & CONCLUSIONS: No other information given.

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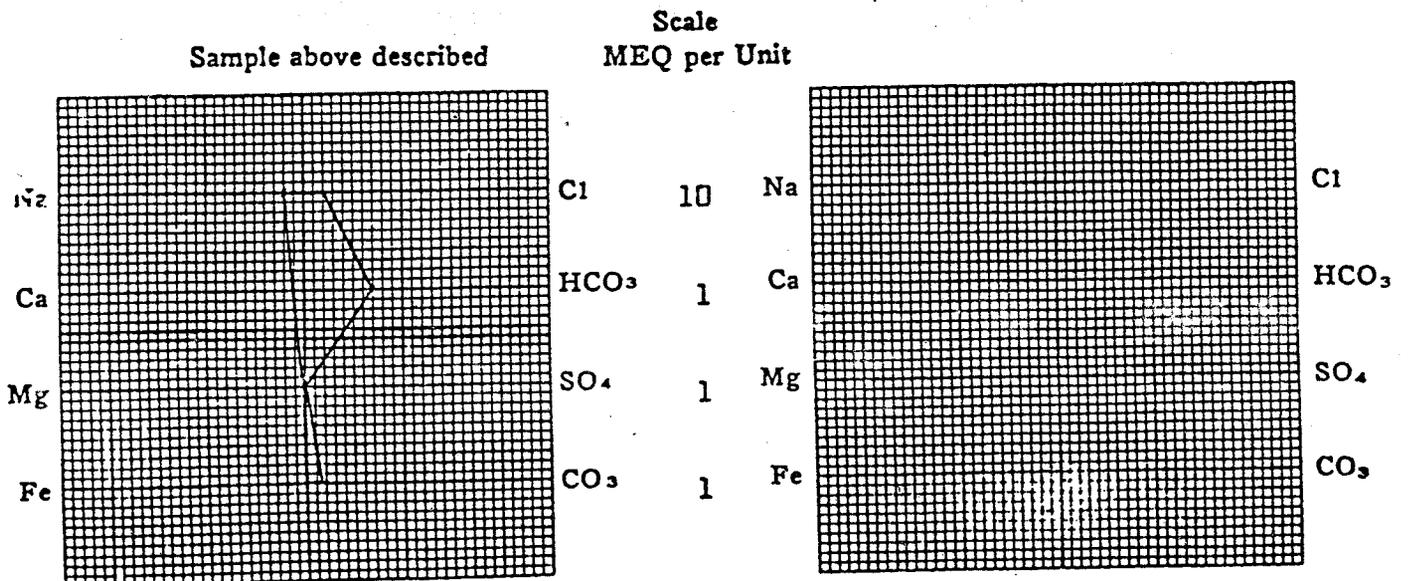


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<u>Cations</u>	<u>mg/l</u>	<u>meq/l</u>	<u>Anions</u>	<u>mg/l</u>	<u>meq/l</u>
Sodium - - - - -	<u>560</u>	<u>24.38</u>	Sulfate - - - - -	<u>20</u>	<u>0.42</u>
Potassium - - - - -	<u>17</u>	<u>0.44</u>	Chloride - - - - -	<u>610</u>	<u>17.20</u>
Lithium - - - - -	<u>  </u>	<u>  </u>	Carbonate - - - - -	<u>48</u>	<u>1.60</u>
Calcium - - - - -	<u>16</u>	<u>0.80</u>	Bicarbonate - - - - -	<u>415</u>	<u>6.81</u>
Magnesium - - - - -	<u>5</u>	<u>0.41</u>	Hydroxide - - - - -	<u>  </u>	<u>  </u>
Iron - - - - -	<u>  </u>	<u>  </u>	Hydrogen sulfide - - - - -	<u>  </u>	<u>  </u>
Total Cations - - - - -	<u>  </u>	<u>26.03</u>	Total Anions - - - - -	<u>  </u>	<u>26.03</u>

Total dissolved solids, mg/l - - - - -	<u>1480</u>	Specific resistance @ 68°F.:
NaCl equivalent, mg/l - - - - -	<u>1395</u>	Observed - - - - -
Observed pH - - - - -	<u>8.2</u>	<u>4.10</u> ohm-meters
		Calculated - - - - -
		<u>4.30</u> ohm-meters

### WATER ANALYSIS PATTERN



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

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

-----  
IN THE MATTER OF THE APPLICATION OF )  
CHAMPLIN PETROLEUM COMPANY FOR AN )  
ORDER PERMITTING THE DISPOSAL OF )  
SALT WATER INTO THE STUMP FORMATION )  
THROUGH THE CHAMPLIN PETROLEUM COMPANY )  
#1 JONES WELL, SUMMIT COUNTY, UTAH. )  
-----

ORDER  
CAUSE NO. 160-13

Pursuant to the application of Champlin Petroleum Company, this cause came on for hearing before the Board of Oil, Gas, and Mining, State of Utah, at 9:00 a.m., on Thursday, March 29, 1979, in the Wildlife Resources Auditorium, 1596 West North Temple, Salt Lake City, Utah. The following Board Members were present:

Charles R. Henderson, Chairman, Presiding  
Edward T. Beck  
E. Steele McIntyre  
Constance K. Lundberg  
C. Ray Juvelin

Also present:

Cleon B. Feight, Director, Division of Oil, Gas, and Mining  
Patrick L. Driscoll, Consulting Petroleum Engineer, Division  
of Oil, Gas, and Mining  
Denise Dragoo, Special Assistant Attorney General, Division  
of Oil, Gas, and Mining  
Scheree Wilcox, Administrative Assistant, Division of Oil,  
Gas, and Mining

Appearances were made as follows:

For the Applicant: Joe Henry, Esq.  
Denver, Colorado  
  
Joe Hopkins  
Denver, Colorado  
  
Frank D. McAtee  
Denver, Colorado

Applicant introduced testimony and exhibits in support of its application and questions were addressed to applicant's witnesses and statements were submitted by others present.

NOW, THEREFORE, the Board having considered questions and answers, statements presented and the testimony adduced and the exhibits received at said hearing and being fully advised in the premises, now makes and enters the following:

FINDINGS AND CONCLUSIONS

1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties as required by law and

the Rules and Regulations of the Board.

2. The Board has jurisdiction over the matter covered by said application and over all parties interested therein and has jurisdiction to make and promulgate the Order hereinafter set forth.

3. The application of Champlin Petroleum Company complies in all respects with the Rules and Regulations of the Board.

4. Applicant is an oil and gas operator in the Pineview Field, Summit County, Utah, and there are many producing oil and gas wells in said field which are producing in association with oil and gas, salt water, brackish water, or other water unfit for domestic, livestock, irrigation, or other general uses. Water produced with oil and gas is now being disposed of in American Quasar's well No. 5-1, located in the SE/4 of Section 5, Township 2 North, Range 7 East, but anticipated volumes of such produced water may exceed the amount that can be effectively disposed of into said well.

5. The surface owner of certain lands in the NE/4 of Section 5, Township 2 North, Range 7 East, SLBM, Summit County, Utah, upon which applicant proposes to operate a water disposal well, attended the hearing on this matter and voiced no objection to said disposal operations provided all fresh water aquifers were protected.

6. Injection of oilfield produced water is contemplated underground into the Stump Formation through the proposed disposal well at subsurface intervals ranging from approximately 6,184 to 6,404 feet. Testimony and exhibits show the probability that produced water to be disposed of is of poorer quality than formation water at the proposed injection intervals; however, the Stump Formation is productive of oil in the area and analyses of the water from said Stump Formation showed oil and greasy content of 51 parts per million.

7. Testimony and exhibits further show that injected water will not migrate vertically from the Stump Formation up into the Kelvin Formation or below into the Preuss Formation.

8. Water to be disposed of is that which is produced with oil and gas from the Twin Creek and Nugget Formations underlying wells in the Pineview Field and surrounding area. Injection rate is estimated at a minimum of 0 and a maximum of 10,000 barrels per day into the disposal well.

9. Applicant's proposed casing, cementing and methods for testing

the disposal well to be drilled appear to be adequate to avoid polluting streams and underground water, but monitoring of the disposal well as to volume and pressure should be provided.

10. Applicant's disposal program is in the interest of conservation, will prevent waste and protect property rights of others, subject to certain conditions hereinafter noted.

ORDER

IT IS THEREFORE ORDERED:

That the plan for disposal of oilfield produced water as set forth in the application and in the above Findings and Conclusions, is hereby approved and applicant, Champlin Petroleum Company, is hereby authorized to dispose of salt water, brackish water, or other water produced with oil and gas from oil and gas wells in the Pineview Area and surrounding area, Summit County, Utah, which water is unfit for domestic, livestock, irrigation, and other general uses, through a well already drilled in the NE/4 of Section 5, Township 2 North, Range 7 East, SLBM, Summit County, Utah, subject to the following conditions:

1. Operator shall provide continuous monitoring of the salt water disposal well as to the amount of fluids injected and injection pressures, and such information shall be recorded and logged.

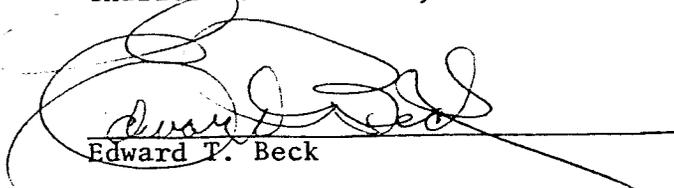
This Order shall become effective on this day.

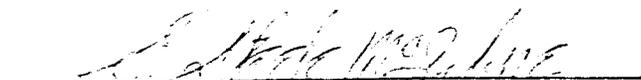
IT IS FURTHER ORDERED that the Board retains continuing jurisdiction over all matters covered by this Order and particularly to make further orders as may be necessary under conditions and circumstances developed in the future.

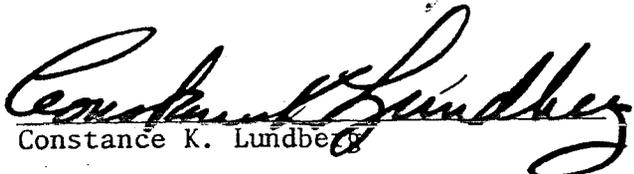
ENTERED this 29th day of March, 1979.

STATE OF UTAH  
BOARD OF OIL, GAS, AND MINING

  
Charles R. Henderson, Chairman

  
Edward T. Beck

  
E. Steele McIntyre

  
Constance K. Lundberg

Client or User Chamolin Petroleum Co. Sample Number (Assigned by Lab) 3330  
 Address P.O. Box 700 Rock Springs, WY 82901  
 Source Jones #1 Location Stump Fm. 1<sup>st</sup> Sample  
 Date & Time Collected \_\_\_\_\_ Date & Time Received 1/15/79 1100

CATIONS	Price	meq/l	mg/l	ANIONS	Price	meq/l	mg/l
Sodium (Na)	\$2.50	121.79	2800	Chloride (Cl)	\$1.50	101.54	3600
Potassium (K)	\$2.50	1.25	49	Fluoride (F)	\$1.50		
Magnesium (Mg)	\$2.50	0.26	3.2	Nitrate (NO <sub>3</sub> -N)	\$4.00		
Calcium (Ca)	\$2.50	0.29	5.9	Sulfate (SO <sub>4</sub> )	\$1.50	11.83	569
Barium (Ba)	\$5.00			Carbonate (CO <sub>3</sub> )	\$1.50	2.80	84
Cadmium (Cd)	\$5.00			Bicarb. (HCO <sub>3</sub> )	\$1.50	14.43	880
Chromium (Cr)	\$5.00			Phosphate (PO <sub>4</sub> -ortho)	\$4.50		
Lead (Pb)	\$7.00			Nitrite (NO <sub>2</sub> -N)	\$1.50		
Silver (Ag)	\$5.00			Sulfite (SO <sub>3</sub> )	\$1.50		
<b>TOTAL</b>		<b>123.59</b>		<b>TOTAL</b>		<b>130.60</b>	

Phosphate (PO <sub>4</sub> -Total)	\$5.00		
Nitrogen (NH <sub>3</sub> )	\$1.50		51
Oil and Grease (Freon Ext.)	\$9.00		
Suspended Solids (103°C)	\$2.50		
Total Dissolved Solids (180°C)	\$3.00		7750
Total Solids (103°C)	\$2.00		
Hardness (as CaCO <sub>3</sub> )	\$2.00		
Total Alkalinity (as CaCO <sub>3</sub> )	\$2.00		864
Total Residual Chlorine (as Cl <sub>2</sub> )	\$2.50		
Sodium Adsorption Ratio	\$1.00		
Sodium, %	\$1.00		
Residual Sodium Carbonate	\$1.00		
Dissolved Oxygen	\$1.25		9.04
pH	\$1.25		12,000 = $\frac{12,000 \mu\text{mhos}}{1000} = 12 \text{ mg/l}$
Conductivity (µmhos @ 25°C)	\$1.25		
Fecal Streptococci (per 100 ml - MF)	\$3.50		
Fecal Coliform (per 100 ml - MF)	\$3.50		
Total Coliform (per 100 ml - MF)	\$3.50		
B.O.D. (5-days @ 20°C)	\$6.00		
C.O.D. (Chemical Oxygen Demand)	\$6.00		
Shipping Container Fee	\$2.00		
Sample Preparation Fee	\$5.00		

DATE COMPLETED 1/16/79

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

OPERATOR	Champlin Petroleum Company	DATE	August 17, 1976	LAB NO.	20719
WELL NO.	McDonald No. 1	LOCATION	Sec 3-2N-7E		
FIELD	Pineview	FORMATION	NUGGET		
COUNTY	Summit	INTERVAL			
STATE	Utah	SAMPLE FROM	Heater-treater (7/30/76)		

REMARKS & CONCLUSIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

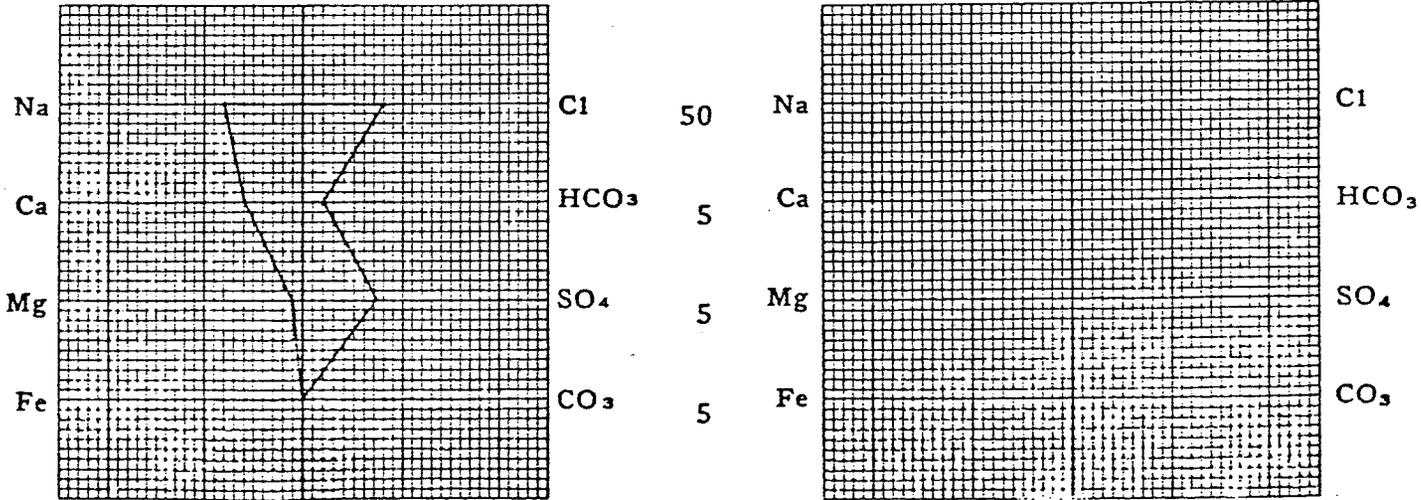
Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium - - - - -	9202	400.27	Sulfate - - - - -	1620	33.70
Potassium - - - - -	445	11.39	Chloride - - - - -	14300	403.26
Lithium - - - - -			Carbonate - - - - -	-	
Calcium - - - - -	627	31.29	Bicarbonate - - - - -	586	9.61
Magnesium - - - - -	44	3.62	Hydroxide - - - - -		
Iron - - - - -	-		Hydrogen sulfide - - - - -	-	
Total Cations - - - - -			Total Anions - - - - -		
446.57			446.57		

Total dissolved solids, mg/l - - - - -	26527	Specific resistance @ 68°F.:
NaCl equivalent, mg/l - - - - -	25599	Observed - - - - -
Observed pH - - - - -	6.8	0.29
		ohm-meters
		Calculated - - - - -
		0.28
		ohm-meters

### WATER ANALYSIS PATTERN

Scale  
MEQ per Unit

Sample above described



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

# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

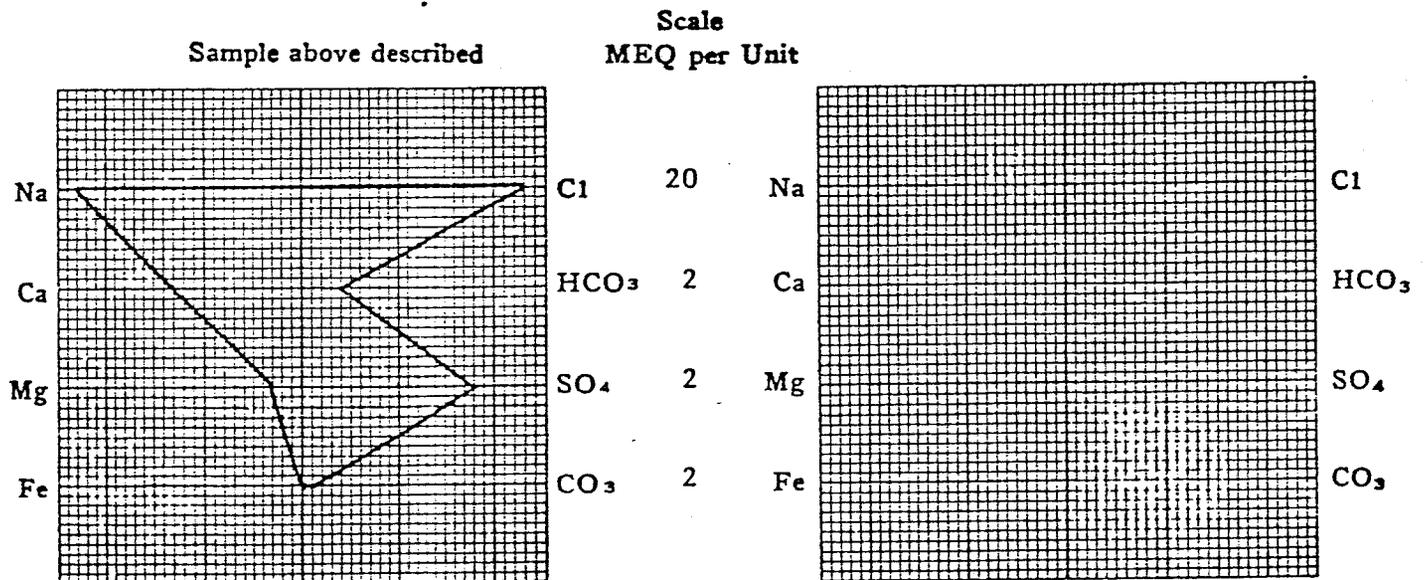
OPERATOR	Champlin Petroleum Company	DATE	June 14, 1976	LAB NO.	19931-1
WELL NO.	No. 1 McDonald	LOCATION	NW NE 3-2N-7E		
FIELD	Pineview	FORMATION	NUGGET		
COUNTY	Summit	INTERVAL			
STATE	Utah	SAMPLE FROM	No. 1 McDonald		

REMARKS & CONCLUSIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<u>Cations</u>	<u>mg/l</u>	<u>meq/l</u>	<u>Anions</u>	<u>mg/l</u>	<u>meq/l</u>
Sodium	10180	442.83	Sulfate	1760	36.61
Potassium	1011	25.88	Chloride	16100	454.02
Lithium	-	-	Carbonate	48	1.60
Calcium	524	26.15	Bicarbonate	476	7.81
Magnesium	63	5.18	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
<b>Total Cations</b>		<b>500.04</b>	<b>Total Anions</b>		<b>500.04</b>

Total dissolved solids, mg/l	29920	Specific resistance @ 68°F.:		
NaCl equivalent, mg/l	28984	Observed	0.22	ohm-meters
Observed pH	7.8	Calculated	0.23	ohm-meters

### WATER ANALYSIS PATTERN



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



CLASS II FILE NOTATIONS

\*\*\*\*\*

DATE FILED: 4/3/84 OPERATOR: American Quazar WELL NO. Jones 42-5

Sec. 5 T. 2N R. 7E QRT/QRT: SENE COUNTY: Summit

New Well?  Conversion?  Disposal  Enhanced Recovery

\*\*\*\*\*

SURETY/Bond?  Card Indexed?  API Number: 43-043-30066

APPLICATION FILE COMPLETION

Completed Form DOGM-UIC-1? yes

Plat identifying location and total depth of the following, Rule I-5(b)(1):

Surface Owner(s): 3 Operators: 2 water well(s) 0, abandoned well(s) 0, producing wells or drilling well(s)     , dry holes 0.

Completed Rule I-5(b)(2)? NR, (i)     , (ii)     

Schematic diagram of Well: TD: 10,168, PBTD: 6,450, Depth of Inj/Disp interval: 6262-6435, geologic name of inj/dis interval Stump

Casing and cement: top Surface, bottom 2500', Size of: casing 20" at 82'  
95" at 2500' & 5 1/2" at 10168 tubing 2 3/8" at 6217, depth of packer: 6217

Assessment of existing cement bond:     

Location of Bottomhole:     . MAXIMUM INJECTION RATE: 10,000 B/d  
MAXIMUM SURFACE INJECTION PRESSURE: 2500 PSI.

Proposed Operating Data:

Procedure for controlling injection rates and pressures: Switch & meter  
Geologic name: Stump, depth, 6184, location of injection fluid source. Analysis of water to be injected 43,360 tds, water of injection formation 26,236 tds., EXEMPTION REQUIRED? No.

Injection zone and confining zone data: lithologic description Saltst - Shd  
geologic name Stump, thickness 315, depth 6262, lateral extent 1982

USDW's that may be affected by injection: geologic name None, lateral extent     , depth to the top and bottom of all known USDW's 2900' base actually only USDW since wells are less than 200'

Contingency plans?     

Results of formation testing? See page 3 Sept 22, 1993 letter  
Description of mechanical integrity test 1000 PSI for 15 min injection procedure 10,000 BPD at 2500 PSI

\*\*\*\*\*

CHECKED BY: UIC ADMINISTRATOR: CBF 4/3/84

UIC GEOLOGIST:     

Application Complete?  Notice Published  Date:   /  /    
DIRECTOR: Approved? , approval letter sent , Requires hearing

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

7

SUNDRY NOTICES AND REPORTS ON RECEIVED

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

1. OIL WELL  GAS WELL  OTHER  MAY 01 1985

2. NAME OF OPERATOR Champlin Petroleum Company

3. ADDRESS OF OPERATOR DIVISION OF OIL GAS & MINING  
PO Box 700, Rock Springs, Wyoming 82902

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

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT Pineview

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

12. COUNTY OR PARISH Summit

13. STATE Utah

14. PERMIT NO.

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

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

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

Effective April 1, 1985, Champlin Petroleum Company will assume operation of the Pineview Field, Summit County, Utah from American Quasar Petroleum Company. All further correspondence should be addressed to: Champlin Petroleum Company, P.O. Box 700, Rock Springs, Wyoming 82902.

The following wells are included in the Pineview Field, Summit County, Utah.

WELLS	LOCATION	WELLS	LOCATION
Bingham 2-1	NW/4 SW/4 Sec 2, T2N, R7E	UPRR 3-4	SE NW, Sec 3, T2N, R7E
Bingham 2-1A	SW SW Sec 2, T2N, R7E	UPRR 3-5	SE SW, Sec 3, T2N, R7E
Bingham 2-2	NW NW, Sec 2, T2N, R7E	UPRR 3-6	SE SE, Sec 3, T2N, R7E
Bingham 2-3	SE SW, Sec 2, T2N, R7E	Pineview 3-7	SW SW, Sec 3, T2N, R7E
Bingham 2-4	SE NW, Sec 2, T2N, R7E	UPRR 3-8	SW NW, Sec 3, T2N, R7E
Bingham 2-5	NW SE, Sec 2, T2N, R7E	UPRR 3-9	NE SE, Sec 3, T2N, R7E
Bingham 10-1	NW NE, Sec 10, T2N, R7E	Newton Sheep #1	NE SE, Sec 4, T2N, R7E
Bingham 10-2	NW NW, Sec 10, T2N, R7E	Clark 4-1	SE SW, Sec 4, T2N, R7E
Bingham 10-3	SE NW, Sec 10, T2N, R7E	Pineview 4-3	SE SE, Sec 4, T2N, R7E
UPRR 3-1	NW/4 NW/4, Sec 3, T2N, R7E	Pineview 4-4	SE SE, Sec 4, T2N, R7E
UPRR 3-2	NW SW, Sec 3, T2N, R7E	Newton Sheep 4-5	NE NE, Sec 4, T2N, R7E
UPRR 3-3	NW/SE, Sec 3, T2N, R7E		

CONTINUES PAGE 2

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

SIGNED S.M. Schram TITLE Production Superintendent DATE March 27, 1985

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT APPLICATION\*  
(Other instructions on reverse side)

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION AND SERIAL NO.
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Champlin Petroleum Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR PO Box 700, Rock Springs, Wyoming 82902		8. FARM OR LEASE NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface		9. WELL NO.
10. FIELD AND POOL, OR WILDCAT Pineview		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14. PERMIT NO.	15. ELEVATIONS (Show whether DT, RT, OR, etc.)	12. COUNTY OR PARISH Summit
		13. STATE Utah

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

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

WELLS

LOCATION

Newton Sheep 4-6	C NW, Sec 4, T2N, R7E
Pineview 4-7	SE NE, Sec 4, T2N, R7E
State 4-8	NW NE, Sec 4, T2N, R7E
Newton Sheep 4-9	SW NE, Sec 4, T2N, R7E
Newton Sheep 4-10	NW SE, Sec 4, T2N, R7E
Newton Sheep 4-11	NE SW, Sec 4, T2N, R7E
State 4-12	NE NW, Sec 4, T2N, R7E
UPRR 5-1	SE SE, Sec 5, T2N, R7E
Jones #1 (42-5)	SE NE, Sec 5, T2N, R7E
UPRR 9-1	SE NE, Sec 9, T2N, R7E
UPRR 9-2	NE SE, Sec 9, T2N, R7E
UPRR 11-1	NW NW, Sec 11, T2N, R7E
UPRR 15-1	NE NW, Sec 15, T2N, R7E
Boyer 34-1	SE SW, Sec 34, T2N, R7E

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

SIGNED *S. M. Schram* TITLE Production Superintendent DATE March 27, 1985

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

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

**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.)

<b>1. OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> Saltwater Disposal Well		5. LEASE DESIGNATION AND SERIAL NO.
<b>2. NAME OF OPERATOR</b> CHAMPLIN PETROLEUM COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
<b>3. ADDRESS OF OPERATOR</b> P.O. Box 700 Rock Springs, WY 82902-0700		7. UNIT AGREEMENT NAME
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1906' FNL & 589' FEL		8. FARM OR LEASE NAME Jones
<b>14. PERMIT NO.</b> 43-043-30066		9. WELL NO. #1 Jones 42-5 (2-7)
<b>15. ELEVATIONS</b> (Show whether DF, RT, OR, etc.) 6426' KB		10. FIELD AND POOL, OR WILDCAT Pineview
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T2N, R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

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

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

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

The following work was performed from November 20-22, 1986 in order to alleviate the communication between the tubing and annulus.

1. Unseat packer. TOOH w/200 jts. of 2-7/8" N-80 internally plastic coated tubing. Found hole in tubing on 105th joint.
2. Circulate hole clean to 6443'.
3. TIH with new 2-7/8" N-80 internally plastic coated tubing & packer. Set at 6186'.
4. Pressure test backside to 1000 psi. Held O.K.
5. Returned to disposal.



DIVISION OF  
OIL, GAS & MINING

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

SIGNED K. J. Nosich / JBH TITLE Petroleum Engineer DATE 12/01/86  
K. J. Nosich

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

BAROID TREATING CHEMICALS

RECEIVED  
 APR 10 1987

#142-51

SHEET NUMBER

DATE

2/19/87

Champlin Petroleum 2N 7E Sec 5

DIVISION OF

OIL, GAS & MINING

Utah

Pineview

Summit

Transfer Plant

WELL(S) NAME OR NO.

WATER SOURCE (FORMATION)

DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY
------------	--------	---------------	---------	----------------	--------------	---------------

Filter outlet

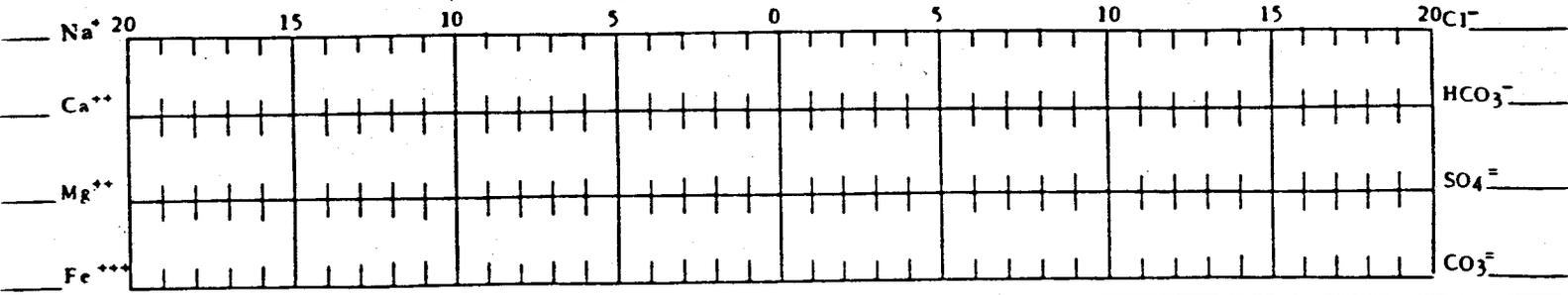
DATE SAMPLED	TYPE OF WATER
--------------	---------------

2/19/87

PRODUCED  SUPPLY  WATERFLOOD  SALT WATER DISPOSAL

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES me/l\* SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	88	
Calcium, Ca <sup>++</sup>	49.6	992
Magnesium, Mg <sup>++</sup>	38.4	468.48
Iron (Total) Fe <sup>+++</sup>		10
Barium, Ba <sup>++</sup>		
Sodium, Na <sup>+</sup> (calc.)	294.13	6764.99

DISSOLVED GASES

Hydrogen Sulfide, H <sub>2</sub> S	mg/l*
Carbon Dioxide, CO <sub>2</sub>	mg/l*
Oxygen, O <sub>2</sub>	mg/l*

PHYSICAL PROPERTIES

pH	7.1
Eh (Redox Potential)	MV
Specific Gravity	
Turbidity, JTU Units	
Total Dissolved Solids (calc.)	26295 mg/l*
Stability Index	F
CaSO <sub>4</sub> Solubility	F mg/l*
Max. CaSO <sub>4</sub> Possible (calc.)	mg/l*
Max. BaSO <sub>4</sub> Possible (calc.)	mg/l*
Residual Hydrocarbons	ppm(Vol Vol)

CATIONS	me/l*	mg/l*
Chloride, Cl <sup>-</sup>	371.83	13200
Sulfate, SO <sub>4</sub> <sup>=</sup>	87.5	4200
Carbonate, CO <sub>3</sub> <sup>=</sup>	0	0
Bicarbonate, HCO <sub>3</sub> <sup>-</sup>	10.8	658.8
Hydroxyl, OH <sup>-</sup>	0	0
Sulfide, S <sup>=</sup>	0	0

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide  Iron Oxide  Calcium Carbonate  Acid Insoluble

\* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

REMARKS AND RECOMMENDATIONS:

ETC ENGINEER Patrick O'Rourke	DIST. NO. 810	ADDRESS Evanston, Wy.	OFFICE PHONE (307) 789-1355	HOME PHONE 789-6541
ANALYZED	DATE	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> ETC ENGINEER OR	<input type="checkbox"/> AREA OR <input type="checkbox"/> ETC LAB	<input type="checkbox"/> DISTRICT OFFICE <input type="checkbox"/> ETC SALES SUPERVISOR

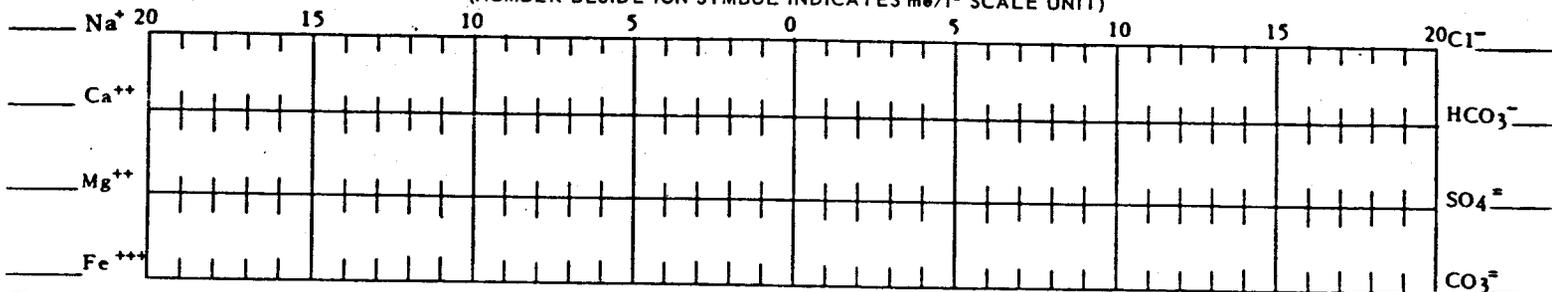
**BAROID TREATING CHEMICALS**

**RECEIVED**  
**WATER ANALYSIS REPORT**  
 APR 10 1987

COMPANY <b>CHAMPLIN PETROLEUM COMPANY</b>		DIVISION OF <b>OIL, GAS &amp; MINING</b>		SHEET NUMBER
FIELD <b>PINEVIEW</b>		COUNTY OR PARISH <b>SUMMIT</b>		DATE <b>4/6/87</b>
LEASE OR UNIT <b>LODGEPOLE</b>		WELL(S) NAME OR NO. <b>Judd 34-2</b>		STATE <b>UTAH</b>
DEPTH. FT.	BHT. F	SAMPLE SOURCE	TEMP. F	WATER, BBL/DAY
DATE SAMPLED <b>4/2/87</b>		TYPE OF WATER <input checked="" type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input checked="" type="checkbox"/> SALT WATER DISPOSAL		

**WATER ANALYSIS PATTERN**

(NUMBER BESIDE ION SYMBOL INDICATES me/l\* SCALE UNIT)



**DISSOLVED SOLIDS**

CATIONS	me/l*	mg/l*
Total Hardness	36.7	--
Calcium, Ca <sup>++</sup>	26.7	534.0
Magnesium, Mg <sup>++</sup>	10.0	122.0
Iron (Total) Fe <sup>+++</sup>	0.7	12.5
Barium, Ba <sup>++</sup>	0	0
Sodium, Na <sup>+</sup> (calc.)	478.0	10,994.0

**DISSOLVED GASES**

Hydrogen Sulfide, H <sub>2</sub> S	_____ mg/l*
Carbon Dioxide, CO <sub>2</sub>	_____ mg/l*
Oxygen, O <sub>2</sub>	_____ mg/l*

**PHYSICAL PROPERTIES**

pH	6.9
Eh (Redox Potential)	_____ MV
Specific Gravity	_____
Turbidity, JTU Units	_____
Total Dissolved Solids (calc.)	30,246.1 mg/l*
Stability Index @ ___ F	_____
@ ___ F	_____
CaSO <sub>4</sub> Solubility @ ___ F	_____ mg/l*
@ ___ F	_____ mg/l*
Max. CaSO <sub>4</sub> Possible (calc.)	_____ mg/l*
Max. BaSO <sub>4</sub> Possible (calc.)	_____ mg/l*
Residual Hydrocarbons	_____ ppm(Vol/Vo)

**SUSPENDED SOLIDS (QUALITATIVE)**

Iron Sulfide     Iron Oxide     Calcium Carbonate     Acid Insoluble

**REMARKS AND RECOMMENDATIONS:**

\*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BTC ENGINEER <b>Pat O'Rourke</b>	DIST. NO. <b>810</b>	ADDRESS <b>Rock Springs</b>	OFFICE PHONE <b>382-3466</b>	HOME PHONE
ANALYZED	DATE	DISTRIBUTION	<input type="checkbox"/> CUSTOMER <input type="checkbox"/> AREA OR <input type="checkbox"/> DISTRICT OFFICE <input type="checkbox"/> BTC ENGINEER OR <input type="checkbox"/> BTC LAB <input type="checkbox"/> BTC SALES SUPERVISOR	

UIC



# Union Pacific Resources

A Subsidiary of Union Pacific Corporation

May 22, 1987

STATE OF UTAH  
DIV OF OIL GAS & MINING  
355 W NORTH TEMPLE  
3 TRIAD CENTER STE 350  
SALT LAKE CITY UT  
84180

RECEIVED  
MAY 20 1987

DIVISION OF  
OIL, GAS & MINING

RE: Corporate Name Change

Effective May 11, 1987, Champlin Petroleum Company (Champlin) changed its name to Union Pacific Resources Company (UPRC) to better identify Champlin with its parent company, Union Pacific Corporation.

Henceforth, all activities formerly conducted under the name Champlin will continue without interruption under the name UPRC.

Remittance addresses, telephone numbers, lockboxes, and bank accounts will not be affected as a result of this name change. Our federal tax identification number (73-0739973) will not be changed. Therefore, it will not be necessary to suspend any payments due UPRC and UPRC hereby requests that all payments formerly made in the name of Champlin be paid, without interruption, to UPRC. It is understood that UPRC will indemnify and hold you harmless from any claims or liability arising out of your reliance on this letter. Similarly, invoices and billings for goods and services provided should be directed to UPRC utilizing previous Champlin addresses.

It is requested that you please update your records to reflect this change. If you have any questions regarding this name change, please contact:

Union Pacific Resources Company  
P.O. Box 7, MS 3306  
Fort Worth, Texas 76101-0007  
Attn: Ms. Martha Chitwood

Thank you for your cooperation.

Very truly yours,

UNION PACIFIC RESOURCES COMPANY

By *Robert S. Jackson*  
Vice President Finance

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Water Disposal Well		5. LEASE DESIGNATION AND SERIAL NO. FEE	
2. NAME OF OPERATOR UNION PACIFIC RESOURCES COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. BOX 700, ROCK SPRINGS, WY 82901		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with an approved map. See also space 17 below.) At surface 1906'FNL & 589'FEL SE NE		8. FARM OR LEASE NAME Pineview	
14. PERMIT NO. 43-043-30066		9. WELL NO. #1 Jones 42-5 (2-7)	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6426'KB 6411 GR		10. FIELD AND POOL, OR WILDCAT Pineview	
12. COUNTY OR PARISH Summit		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T2N, R7E	
18. STATE Utah			

RECEIVED  
FEB 18 1989

DIVISION OF  
OIL, GAS & MINING

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

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

Injection ceased into the above mentioned well on January 30, 1989. The well will remain shut-in and used to monitor Stump formation pressure.

RECEIVED  
1989 FEB -6 AM 9 00  
DEPT. OF INTERIOR  
DIV. OF LAND MGMT.

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

SIGNED J. B. Arkenberg TITLE Production Engineer DATE Feb 2, 1989

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:



February 18, 1988

RECEIVED  
FEB 22 1988

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Natural Resources  
Oil, Gas, Mining  
355 W. North Temple  
3 Triad Center, Ste. 350  
Salt Lake City, UT 84180-1203

ATTENTION: Mr. Gil Hunt

FILE: 150.2

RE: PINEVIEW/LODGEPOLE FIELDS - CASING INTEGRITY OF  
DISPOSAL WELL

Dear Mr. Hunt:

In answer to your memo of February 9, 1988 and as a follow-up to our phone conversation, the following action has been taken in regard to the four SWD wells you listed.

UPRR 5-1

Following the discovery of pressure on the tubing/casing annulus, approvals to replace the tubing in this well were gathered from the Working Interest Partners. New 3½" N-80 tubing is presently laying on location, ready to be run once the workover begins. A special Tuboscope MMS coupling is being used in hopes of eliminating many of the small thread leaks we have experienced on other wells in the area where 8rd EUE tubing was used.

Boyer 34-1

The tubing string and packer originally run in the well when it was converted to disposal were both pulled and laid down in October of 1986. New internally plastic coated 8rd EUE tubing was run back in the well. It has been our experience that 8rd EUE tubing is not capable of maintaining the necessary integrity to keep the wellbore annulus from pressuring up over time. It is UPRC's plan to shut this and several other Stump wells in once the new tubing has been installed in UPRR 5-1. There are no plans to return the well to disposal status except in an emergency situation.

Pineview/Lodgepole Fields  
Casing Integrity of Disposal Wells  
February 18, 1988  
Page 2

UPRR 3-5

This well is the only SWD well in the Pineview Field to have fiberglass tubing installed. In order to stay within the design limits of the tubing, it is necessary to maintain pressure on the backside. As with the Boyer 34-1, the UPRR 3-5 is also slated for shut-in once the UPRR 5-1 is reworked to change out its tubing string.

Judd 34-2

The Lodgepole SWD well is presently shut-in, along with the two producing wells in the field. Because of the fields borderline economic operation, all expenditures are closely scrutinized as to their effect on the fields revenue. During a workover in November 1986 to recover some coiled tubing, the casing was pressure tested to 1000 psi and held okay. Because of this, it is felt that this wells casing is in good condition and that the pressure currently on the annulus is a result of leaking threads in the old tubing.

It is UPRC's commitment to continue to maintain its Pineview SWD wells within the specifications designated by the UIC program. If you have any questions concerning the four wells listed, or any other SWD wells in the Pineview Field, feel free to call me at 307/362-5641.

Very Truly Yours,

UNION PACIFIC RESOURCES COMPANY



Steve M. Schram  
Production Superintendent

SMS/tc

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> WDW		817/877-7956	
2. NAME OF OPERATOR UNION PACIFIC RESOURCES COMPANY			
3. ADDRESS OF OPERATOR P. O. Box 7 - MS 3407 Fort Worth, TX 76101-0007			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1906' FNL & 589' FEL (SENE)			
14. PERMIT NO. 43-043-30066		15. ELEVATIONS (Show whether of, ft. or, etc.) 6411' GLE; 6426' KB	
5. LEASE DESIGNATION AND SERIAL NO.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME		8. FARM OR LEASE NAME Jones 42-5	
9. WELL NO. #1		10. FIELD AND POOL, OR WILDCAT	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5-T2N-R7E		12. COUNTY OR PARISH Summit	
		13. STATE Utah	

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

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

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

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

NOTICE OF INTENT TO ABANDON

Well History:

TD: 10,167' PBTD: 6450'  
 Surface Casing: 9-5/8" 36# K-55 @ 2500'  
 Production Casing: 5-1/2" 17 & 20# K-55, N-80 & P-110 LT&C @ 10,167'  
 Tubing: 193 jts 2-7/8" 6.5# N-80 EUE 8rd plastic coated w/Baker Model R-3 @ 6180' w/20,000 lbs compression  
 Perforations: Stump 6262-6302', 6340-6360', 6384-6435' 2 JSPF

NOTE: Well SI January 30, 1989. SITP as of 7-9-91 - 700 PSI (Equivalent MW 10.8 ppg)

Procedure to P&A:

- MIRUSU.
- Kill well.
- When well is dead, ND wellhead, NU BOP. Release packer & TOOH w/tubing keeping hole full. Lay down internally plastic coated tubing.

(CONTINUED ON REVERS

18. I hereby certify that the foregoing is true and correct  
SIGNED Joy L. Rector / Joy L. Rector TITLE Regulatory Analyst DATE 7-22-91

(This space for Federal or State office use)

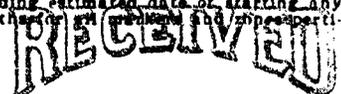
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

DATE: 8-2-91  
BY: J.P. Matthews

\*See Instructions on Reverse Side

*approved as per attached slips*



JUL 23 1991

DIVISION OF  
OIL GAS & MINING

- 4) RU wireline and lubricator and RIH w/gauge ring to  $\pm 6000'$ . PU & RIH w/CICR and set @  $6000'$ . RD wireline.
- 5) PU stinger and 2-7/8" work string & TIH. Pressure test casing to 1000 psi and tubing to 2500 psi and sting into retainer.
- 6) RU cementers to squeeze cement Stump perforations 6262-6435' gross interval. Establish injection rate down 2-7/8" tubing while monitoring annulus pressure. Squeeze w/100 sx Class "G" low water loss followed by 100 sx Class "G" neat. Sting out of retainer and spot 5 sx on top. Reverse circulate hole clean.
- 7) TOOH laying down tubing to 2550'. Spot 100' cement plug (10 sx) from 2550-2450' across surface casing shoe. TOOH laying down tubing.
- 8) ND BOPs and tubing head. Release casing slips and remove casing head.
- 9) Spot 10 sx plug @ surface using 2-7/8" tubing. Using 1" pipe, set 100' annular plug. RD cementers.
- 10) Weld on dry hole marker, RDMOSU.

92 7 9 104

YUMFISOL  
HOMAS-8-104

PLUGGING AND ABANDONMENT STIPULATIONS  
UNION PACIFIC RESOURCES COMPANY  
JONES 42-5 WDW  
SECTION 5, TOWNSHIP 2 NORTH, RANGE 7 EAST  
SUMMIT COUNTY, UTAH  
API # 43-043-30066

Application is approved with the following stipulations:

Step #5 If hole is found in casing, hole will be squeezed and retested.

Step #6 After reverse circulation of hole, circulate hole with a non-corrosive fluid of sufficient weight to prevent migration of fluids between zones.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ABANDONMENT OPERATIONS

COMPANY NAME: UNION PACIFIC RESOURCES COMPANY

WELL NAME: JONES 42-5 43-043-30066

QTR/QTR SE NE SECTION 5 TOWNSHIP 2N RANGE 7E

CEMENTING COMPANY: HALLIBURTON WELL SIGN: N

INSPECTOR: HEBERTSON & KIERST DATE: AUG. 26 1991

CEMENTING OPERATIONS: PLUGBACK: 6000' SQUEEZE: Y P&A WELL: Y

SURFACE PLUG: 0-100 FEET INTERMEDIATE PLUG: 2500-2600 FEET

BOTTOM PLUG SET @: 6,000' WIRELINE: Y MECHANICAL: \_\_\_\_\_

PERFORATIONS: 6262-6435 FEET SQUEEZE PRESSURE: \_\_\_\_\_

=====  
CASING SIZE & GRADE: SURFACE: 9 5/8 K-55 PRODUCTION: 5 1/2 K-55

PRODUCTION CASING TESTED TO: 1,000 PSI TIME: 15 MIN:  
=====

SLURRY INFORMATION:

1. SURFACE PLUG: 20 SKS CLASS G NEAT

2. INTERMEDIATE PLUG: 10 SKS CLASS G NEAT

3. BOTTOM PLUG: 100 SKS CLASS G LOW H2O LOSS 100 SKS CLASS G

4. CEMENT ON TOP OF PLUG: 5 SKS CLASS G NEAT

5. ANNULUS CEMENTED: 10 SKS CLASS G NEAT  
=====

ABANDONMENT MARKER SET:

PLATE: Y PIPE: \_\_\_\_\_ CORRECT INFORMATION: Y

REHABILITATION COMPLETED: N

COMMENTS: HOLE WAS FILLED WITH 11 LB PER GAL CACL AFTER THE  
THE SQUEEZE OF THE PRODUCTIVE ZONE. ALL PLUGS WERE PLACED IN  
ACCORDANCE WITH THE APPROVED PLUGGING PROCEEDURE.  
=====

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ABANDONMENT OPERATIONS

COMPANY NAME: UNION PACIFIC RESOURCES COMPANY

WELL NAME: JONES 42-5

QTR/QTR SE NE SECTION 5 TOWNSHIP 2N RANGE 7E

CEMENTING COMPANY: HALLIBURTON WELL SIGN: N

INSPECTOR: HEBERTSON & KIERST DATE: AUG. 26 1991

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PERFORATIONS: 6262-6435 FEET SQUEEZE PRESSURE: \_\_\_\_\_

CASING SIZE & GRADE: SURFACE: 9 5/8 K-55 PRODUCTION: 5 1/2 K-55

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ABANDONMENT MARKER SET:

PLATE: Y PIPE: \_\_\_\_\_ CORRECT INFORMATION: Y

REHABILITATION COMPLETED: N

COMMENTS: HOLE WAS FILLED WITH 11 LB PER GAL CACL AFTER THE  
THE SQUEEZE OF THE PRODUCTIVE ZONE. ALL PLUGS WERE PLACED IN  
ACCORDANCE WITH THE APPROVED PLUGGING PROCEDURE.



FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 42-5 #1 JONES S.W.D.W.		COUNTY SUMMIT	STATE WY.	CITY / OFFSHORE LOCATION	DATE 5/26/91
CHARGE TO U.P.R.C.		OWNER U.P.R.C.		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS U.P.R.C.		CONTRACTOR SUMMIT WELL SERV		1 LOCATION ROCK SPRINGS	CODE 55365
CITY, STATE, ZIP		SHIPPED VIA	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		2 LOCATION CODE
WELL TYPE 11	WELL CATEGORY 06	WELL PERMIT NO.	DELIVERED TO		3 LOCATION CODE
TYPE AND PURPOSE OF JOB 667		B-	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
100-115				MILEAGE 8-24-91	32	miles			1.35	43.20
94	8022.343			EZ DRILL SV	1	ca.	5 1/2"		814	814.00
128-451				Wireline Kit	1	job			70	70.00
102-011				Operator service chg.	2	hrs			35.00	70.00
				8-26-91						
100-115				Mileage	32	mi			1.35	43.20
102-011				Operator service chg.	8	hrs			35.00	280.00
128-546				Spurline manifold	24	hrs			16.5	165.00
128-401				Stringer	8	hrs			90.	90.00

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X Dick Martin  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X [Signature]  
CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Charlie Bawler  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL \_\_\_\_\_

SUB TOTAL 1575.40

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

EXTRA COPY

HALLIBURTON SERVICES  
**JOB LOG**

WELL NO. 2574 LEASE #1 JONES S.W.D.W. TICKET NO. 071380

CUSTOMER U.P.R.C. PAGE NO. 1

JOB TYPE EZSV Squeeze for plug & abandon DATE 8/26/91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								8-24-91
	1100							on loc
	1230							pick up EZSV & run in hole
	1310							Set cement at 6010
	1340							Test EZSV to 1000 PSI O.K.
	1400							Tool hand release for well-end
								8-26-91
	0700							on loc rigging up
	0915							Start circ water to displace
								well remaining produce water
	1000							test tubing 2500 O.K.
	1003							test BS to 1000 O.K.
	1017							Sting out spot 10 Bbls fresh water
	1033	2				400	1000	Sting in establish injection rate
	1045							Sting out, start mix cement
	1109							Sting in
	1130							Cement in place left 1 Bbl in tubing
								Sting out dump 1 Bbl on top of cement, pull 6 joints & were out.

CUSTOMER

WORK ORDER CONTRACT  
AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 071380

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT ROCK SPRINGS, WY. (EVANSTON)

DATE 3/26/91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: U.P.R.C. (CUSTOMER)  
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 45-2 LEASE #1 Jones S.W.D.W. SEC. 5 TWP. 2-N RANGE 7-E

FIELD PINEVIEW COUNTY SUMMIT STATE UTAH OWNED BY U.P.R.C.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
PACKER: TYPE EZSV SET AT 6010  
TOTAL DEPTH \_\_\_\_\_ MUD WEIGHT \_\_\_\_\_  
BORE HOLE \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	U	17.8	26 5/8"			
LINER						
TUBING	U	6.5	2 7/8" EUE			
OPEN HOLE						SHOTS/FT.
PERFORATIONS				6262	6435	
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_

Run 5 1/2" EZSV & set same @ 6010 to squeeze perf. 6262-6435.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

In consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the first day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.

To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:

- Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
- Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
- Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.

That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.

To waive the provisions of the Deceptive Trade Practices - Consumer-Protection Act, to the extent permitted by law.

That this contract shall be governed by the law of the state where services are performed or materials are furnished.

That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED \_\_\_\_\_ CUSTOMER

DATE 8-24-91

TIME 1100 A.M./P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

# HALLIBURTON SERVICES

## JOB SUMMARY

FORM 2025

DIVISION  
HALLIBURTON  
LOCATION

(EVANSTON)  
ROCK SPRINGS, WY

BILLED ON  
TICKET NO. 071320

### WELL DATA

FIELD PINEVIEW SEC. 5 TWP. 2-N RNG. 7-E COUNTY SUMMIT STATE UTAH

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD.GAS \_\_\_\_\_ MCFD

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD.GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING						
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8/22/91	DATE 8/24/91	DATE 8/24/91	DATE 8/26/91
TIME 0800	TIME 1100	TIME 1100	TIME

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER <u>EZSV 5 1/2"</u>	<u>1 ea.</u>	<u>Halco</u>
OTHER		

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>C. BULLER</u>	<u>40984 P.U.</u>	<u>55365</u>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Tools

DESCRIPTION OF JOB Run 5 1/2" EZSV & set @ 6010' to squeeze perf. 6262 - 6435 for plug to abandon

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X *[Signature]*

HALLIBURTON OPERATOR C. Buller COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>100</u>		<u>G</u>		<u>B</u>	<u>4/10% Colad 344</u>	<u>1.15</u>	<u>15.8</u>
<u>1</u>	<u>100</u>		<u>G</u>		<u>B</u>	<u>Neat</u>	<u>1.15</u>	<u>15.8</u>
<u>2</u>	<u>20</u>		<u>G</u>		<u>B</u>	<u>Neat</u>	<u>1.15</u>	<u>15.8</u>

### PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_

### SUMMARY

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_

CEMENT SLURRY: BBL.-GAL. \_\_\_\_\_

TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

### VOLUMES

### HYDRAULIC HORSEPOWER

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

### REMARKS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

CUSTOMER

CUSTOMER U.P.N.C. #1 JONES S.M.D.N. WELL NO. 45-2 JOB TYPE EZSV SOUFFLE DATE 8/26/91



# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND  
TICKET NO. 071402-1

A Division of Halliburton Company  
DUNCAN, OKLAHOMA 73536

DATE <b>8-26-91</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Jones #1 S.W.D.W. 42-5</b>	COUNTY <b>Summit</b>	STATE <b>UT.</b>
CHARGE TO <b>U.P.R.C.</b>		OWNER <b>Same</b>	CONTRACTOR <b>Summit Well Service</b> No. <b>B 620982</b>	
MAILING ADDRESS <b>P.O. Box 700</b>		DELIVERED FROM <b>Rock Springs, WY.</b>	LOCATION CODE <b>55365</b>	PREPARED BY <b>Syddall</b>
CITY & STATE <b>Rock Springs, WY. 82902</b>		DELIVERED TO <b>Pineview, Ut</b>	TRUCK NO. <b>5708</b>	RECEIVED BY <b>V.L. BILBING</b>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-043	516.00270			Premium AG-300 Cement	100	sk			7.59	759	00
507-778	516.00227			Halad-344 Mix .4% W/100 cft	38	lb			20.30	771	40
504-043	516.00270			Premium AG-300 Cement	<del>200</del>	sk			7.59	<del>1518</del>	<del>00</del>
509-406	890.50812			Calcium Chloride Not Mixed	25	sk			18.50	459	50
Returned Mileage Charge					TOTAL WEIGHT		LOADED MILES		TON MILES		
SERVICE CHARGE ON MATERIALS RETURNED							CU. FEET				
500-207				SERVICE CHARGE			306		1.15	351	90
500-306				Mileage Charge	28478	135	1922		.80	1537	60
CARRY FORWARD TO INVOICE							SUB-TOTAL				4775 20
No. <b>B 620982</b>											

THIS IS NOT AN INVOICE

**JOB LOG**

CUSTOMER U.P.R.C.

PAGE NO. \_\_\_\_\_

FORM 2013 R-2

JOB TYPE SQUEEZE + Plug to Abandon

DATE 8-26-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0200							Called out
	0700							Pumpjack calibration & Pick up - Safety meeting
	0710							START CIRCULATE WELL w/ 11" H <sub>2</sub> O C.C. H <sub>2</sub> O
		1				1000		@ 4 BPM + 600 PSI
	0915							BULK TRUCK DELIVERY
	0945		126					SHUT DOWN - Pumped 126 BBLs
	1000					2500		PSI TEST TUBING TO 2500 PSI
	1002						1000	P.S.I. TEST CASING TO 1000 PSI
	1015	2	15			1000		SPOT 15 BBL F.W. @ 2 BPM + 1000 PSI
	1020	2	18			1000		SPOT 18 BBL C.C. H <sub>2</sub> O @ 2 BPM + 1000 PSI
	1034							SHUT DOWN + STING IN
	1036	2				1200		START BREAKDOWN @ 2 BPM + 1200 PSI
	1042							SHUT DOWN - Pumped 15 BBLs C.C. H <sub>2</sub> O - STING OUT.
	1045	2	10			800		START 10 BBLs H <sub>2</sub> O @ 2 BPM + 800 PSI
	1051							SHUT DOWN (200 SKS)
	1052	2				800		START MIX + Pump CMT @ 2 BPM + 800 PSI
	1108							30 BBLs CMT. Pumped - SHUT DOWN + STING IN
	1109	2 1/2				400		START Pumping @ 2 1/2 BPM + 400 PSI
	1117		41					CMT. ALL PUMPED - 41 BBLs @ 15.8 H <sub>2</sub> O - START
		2 1/2				500		DISPLACEMENT @ 2 1/2 BPM + 500 PSI
	1120	2				1400		Pumpjack @ 2 BPM + 1400 PSI
	1127							SHUT DOWN - Pumped 5 BBLs F.W. + 28.2 BBLs
			33.8			1900		C.C. H <sub>2</sub> O - TOTAL 33.8 BBLs + 1900 PSI - STING
								OUT + Laydown to Joints.
	1145	3				1000		START REVERSE @ 3 BPM + 1000 PSI
	1155		38					SHUT DOWN - Pumped 38 BBLs C.C. H <sub>2</sub> O +
								Rig down to Laydown Tubing.
	1340							Rig up to CMT.
	1345	2	5			100		START 5 BBLs F.W. @ 2 BPM + 100 PSI
	1247	2				300		MIX + Pump 200 SKS CMT @ 15.8 H <sub>2</sub> O @
			4.09					2 BPM + 300 PSI - 4.09 BBLs CMT Pumped.
	1351	2				400		START DISPLACEMENT @ 2 BPM + 400 PSI
	1354		12.9					SHUT DOWN - Pumped 12.9 BBLs TOTAL
								1.9 F.W. + 11 BBLs C.C. H <sub>2</sub> O.
	1400							Rig down + RELEASED - UNTIL 0700 8-27-
								91.

CUSTOMER

# JOB LOG

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0730							CALLED OUT
	0845							CONNECTION & WAIT ON RIG
	1027							MIX 20SKS C.M. @ 15.8% GAL @ 3% C.C.
	1030	1				100		START Pumping down 1" PIPE @ 1/2 RPM + 100 PSI
	1035		4.1					SHUT DOWN - Pumped 6.1 BBLs C.M. BETWEEN 9 5/8" + 5 1/2" CSG.
	1050		4.1					MIX + Pump 20SKS C.M. @ 15.8% GAL @ 10 RPM + 100 PSI
	1100	1				100		SHUT DOWN - 4.1 BBLs C.M. Pumped down 5 1/2" CSG - RIG DOWN + RELEASED
								Thank you V. L. Biggins

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<b>1. OIL WELL</b> <input type="checkbox"/> <b>UAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b> Plug & Abandon		<b>OCT 15 1991</b>
<b>2. NAME OF OPERATOR</b> Union Pacific Resources Company		<b>7. UNIT AGREEMENT NAME</b>
<b>3. ADDRESS OF OPERATOR</b> P. O. Box 7 - MS 3407, Ft. Worth, TX		<b>8. FARM OR LEASE NAME</b> Jones 42-5
<b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)</b> At surface SE NE 1906' FNL & 589' FEL		<b>9. WELL NO.</b> #1
<b>14. PERMIT NO.</b> 43-043-30066		<b>10. FIELD AND POOL, OR WILDCAT</b>
<b>15. ELEVATIONS (Show whether SP, ST, OR, etc.)</b> 6411' GLE; 6426' KB		<b>11. SEC., T., R., M., OR BLE. AND SUBVY OR AREA</b> Sec 5-2N-7E
		<b>12. COUNTY OR PARISH</b> Summit
		<b>13. STATE</b> Utah

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

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

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

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

This well was PLUGGED AND ABANDONED on 08/29/91 as follows:

1. MIRU. Kill Well. ND Tree. NU BOP.
2. Rel Baker R3 Paker, pump 60 bbls, 11.2 ppg CCL H<sub>2</sub>O down csg & 20 bbls down tbg; Press 700 psi on both sides 10 min.
3. SI 14 hrs. CP 40 psi, TP 25 psi, bled down from csg.
4. TOH, LD 193 jts 2-7/8", 6.5# plastic coated tbg, well flowing up tbg, con't after 65 jts; hole in jt #45, #83 w/multiple holes & heavy scale on btm 50 jts.
5. TIH w/4.4" OD gauge ring & JB to 6050'; TOH, TIH w/ Halco EZSV retainer & set @ 6010'.
6. Test csg to 100 psi - held 15 min OK.
7. MU Stinger & TIH w/190 jts 2-7/8" 6.5# N80.
8. Circ hole w/126 bbls, 11 ppg, CACL<sub>2</sub> wtr, press test tbg 2500 psi, csg 1000 psi - OK. Pump 15 bbls into formation @ 2BPM & 1200 psi.
9. Mix and pump 100 sx AG 300 cmt w/0.44\$ Hallad 344 fluid loss, 100 sx AG 300 neat (40.8 bbls slurry) @ 30 bbls in tbg. Sting into retainer.
10. Displace w/5bbls fresh water & 28.8 bbls 11 ppg (CACL<sub>2</sub>) wtr @ 2 BPM). Final press 1900 psi, sting out & put 5 sx on retainer.

\*\*\* CONTINUED ON BACK \*\*\*

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

SIGNED J. L. Rector / J. L. Rector, TITLE Regulatory Analyst DATE 10/04/91

(This space for Federal or State office use)

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

11. LD 6 jts tbg, rev out w/38bbbls. LD 116 jts tbg to 2550. Pump 5 bbls fresh wtr, 20sx AG neat cmt (4bbbls). Displ w/ 1.9 bbls FW & 11 bbls ppg CCL H<sub>2</sub>O. Plug #2 2550-2375'. LD 82 jts tbg.
12. ND BOP & TBG Head. Cut of 5-1/2" csg. Cut 9-5/8" csg & head. Don
13. Ran 100' 1" pipe in 9-5/8" csg. Pump 30 sx AG cmt w/3% CACL<sub>2</sub>.
14. Cement circ to surface.
14. Ran 100' 1" pipe in 5-1/2" csg. Pump 20 sx AG cmt w/3% CACL<sub>2</sub>, circulate to surface.
15. RD move off. Weld plate on 9-5/8" csg to state requirements.
16. Back fill all pits. Dig up dead men.
17. Will reclaim location as soon as possible.