Date 1st Production - 3/23/79

FILE NOTATIONS

tered in NID File ...✓....
ca[illegible] Pinned ...✓...
ard Indexed ...✓....

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

COMPLETION DATA:

Date Well Completed 5/26/79

Location Inspected ...

Bond released.

State or Fee Land .....

OW.✓... WW..... TA.....
GW..... OS..... PA.....

LOGS FILED

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

Form OGC-3

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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 [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: American Quasar Petroleum Co. of New Mexico

3. ADDRESS OF OPERATOR: 707 United Bank Tower, 1700 Broadway, Denver, CO 80290

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 4620' FWL, 3300' FSL (SE NE)
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Judd

9. WELL NO.: 34-1

10. FIELD AND POOL, OR WILDCAT: Lodgepole

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 34-2N-6E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.: 43-043-30061 DATE ISSUED: 8-2-77

15. DATE SPUDDED: 10-12-77
16. DATE T.D. REACHED: 1-25-78
17. DATE COMPL. (*Ready to prod.*): 2-19-78
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 7450' GR
19. ELEV. CASINGHEAD: ----
20. TOTAL DEPTH, MD & TVD: 11,806'
21. PLUG, BACK T.D., MD & TVD: 11,750'
22. IF MULTIPLE COMPL., HOW MANY*: ----
23. INTERVALS DRILLED BY: → ROTARY TOOLS: 0-TD CABLE TOOLS: ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Nugget 11,626-11,660'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Induction Laterolog, BHC Sonic, CND, Dipmeter, CBL

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	40#	2,008'	12 1/4"	700 sx	None
5 1/2"	20 & 17#	11,806'	8 3/4"	1340 sx	None

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"	11,615'	11,580'

31. PERFORATION RECORD (*Interval, size and number*)

Pfd 11,648/60' (Nugget) 3½" csg gun 2 spf
Pfd 11,626/36' (Nugget) 3 1/8" csg gun 2 spf

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
SEE ATTACHED	

33.* PRODUCTION

DATE FIRST PRODUCTION: 2-18-78
PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Flowing
WELL STATUS (*Producing or shut-in*): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-19-78	24	20/64"	→	1046	437	0	418

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
575	---	→	1046	437	0	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Flare not to exceed 55 MCFD

TEST WITNESSED BY: Delmar Chapman

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. T. Flemm for R. T. Hurley, Jr. TITLE: Operations Manager DATE: 3-10-78

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

INSTRUCTIONS

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

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

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

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

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

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
SEE ATTACHED			

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Wasatch	surf	
Kelvin	4825	
Stump	7666	
Preuss	8456	
Twin Creek	10118	
Nugget	11624	
TD	11806	

ATTACHMENT

COMPLETION REPORT - JUDD #34-1

37. DST #1 10,346/10,520' (Twin Creek) 500' WC, TO 10" w/v/wk blow thruout; SI 60"; TO 60"; dead throut open period; SI 120"; rec 500' WC + 20' drlg mud; IHP-5306; IFP-178/183; ISIP-603; FFP 157/181; FSIP-477; FHP-5280

DST #2 10,600/10,815' (Twin Creek) 1000' WC, TO 10" w/wk blow thruout; SI 60"; TO 60" dead thruout; SI 120"; rec 1000' WC & drlg mud; IHP-8824; IFP-417/417; ISIP-851; FFP-417/417; FSIP-799; FHP-5857

DST #3 10,825/11,000' (Twin Creek) 1000' WC, TO 10" w/wk blow; SI 60"; TO 60" w/no blow; SI 120"; rec 90' drlg mud + 1000 WC; IHP-5534; IFP-486/521; ISIP-4149; FFP-434/621; FSIP-2184; FHP-5389

DST #4 11,010/11,170' (Twin Creek) 1000' WC; TO 10" w/wk blow; SI 60"; TO 65" w/ no blow; SI 120"; rec 65' drlg mud + 1000' WC; IHP-5625; IFP-606/581; ISIP-3010; FFP-581/581; FSIP-3844; FHP-5541

DST #5 11,240/11,400' (Twin Creek) 1000' WC, TO 10" w/v/wk blow & 1/4" wtr; SI 60"; TO 60", dead thruout; SI 120"; rec 1000' WC + 25' drlg mud; IHP-6761; IFP-612/615; ISIP-1524; FFP-615/602; FSIP-1455; FHP-6768

DST #6 11,410/11,575' (Twin Creek) 2500' WC, TO 10" w/wk blow & 1/4" wtr; SI 60"; TO 60", dead-remaining dead thruout; SI 120"; rec 2000' WC + 10' drlg mud; IHP-5901; IFP-932/932; ISIP-1401; FFP-932/932; FSIP-1401; FHP-5901

DST #7 11,632/11,652' (Nugget) 1000' WC, TO 10" w/v/wk blow, incr to 1/2" blow; SI 60"; TO 120" w/v/wk blow for 15 secs, then died; SI 120"; rec 30' drlg mud + 1307' wtr (incl 1000' WC) + 3' oil; IFP-6012; IFP-610/620; ISIP-4341; FFP-620/640; FSIP-4138; FHP-6018

DST #8 11,668/11,806' (Nugget) 1000' WC, TO 10" w/wk blow, incr to btm of bucket in 5" & remaining throut open period; SI 120" (Could not open tool for 2nd open); rec 1000' WC + 1046' G/O/C drlg mud; IHP-6012; IFP-918/1167; ISIP-4555; FHP-5887

DST #9 11,675/11,806' (Nugget) 1000' WC, TO 10" w/blow off btm of bucket in 2", remaining thruout open period; SI 60"; TO 90" blow off btm bucket in 1", remaining thruout; SI 120"; rec 1000' WC, 660' sli G/C/M + 9495' sli G/C/W; IHP-5886; IFP-1410/2932; ISIP-4668; FFP-2028/2105; FSIP-4660; FHP-5886.

32. 11,648/60' Acdz w/1500 gals 7½% MSR acid
11,626/36, 11,648/60' Fraced w/3000 gals WF20 pad, 3000 gals WF 20 w/2 ppg 100 mesh sd, 6000 gals YF4PSD pad, 5000 gals YF4PSD w/1 ppg 20/40 mesh sd, 10000 gals YF4PSD w/2 ppg 20/40 mesh sd, 4000 gals YF 4PSD slick KCl wtr flush

CL1-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR American Quasar Petroleum Co.
WELL NO. 34-1 Judd
FIELD Unnamed
COUNTY Summit
STATE Utah

DATE January 20, 1978 LAB NO. 26167-4
LOCATION SE NE 34-2N-6E
FORMATION NUGGET
INTERVAL 11675-11806
SAMPLE FROM DST No. 9 (Middle)(1-12-78)

REMARKS & CONCLUSIONS: Mud, low water-loss.

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	16502	717.82	Sulfate	1920	39.94
Potassium	495	12.67	Chloride	25000	705.00
Lithium			Carbonate	-	
Calcium	417	20.81	Bicarbonate	744	12.20
Magnesium	71	5.84	Hydroxide		
Iron	-		Hydrogen sulfide	-	
Total Cations		757.14	Total Anions		757.14

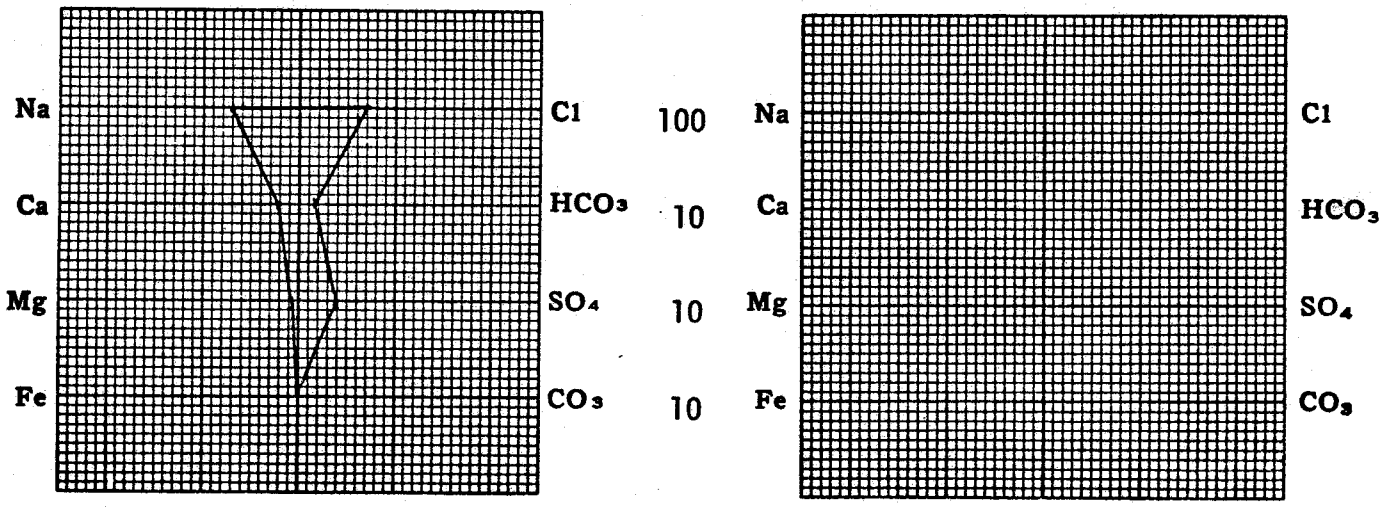
Total dissolved solids, mg/1 44771
NaCl equivalent, mg/1 43696
Observed pH 7.7

Specific resistance @ 68°F.:
Observed 0.206 ohm-meters
Calculated 0.161 ohm-meters

WATER ANALYSIS PATTERN

Sample above described

Scale
MEQ per Unit



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

Form OGCC-3

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

CORRECTED REPORT

FEE

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: AMERICAN QUASAR PETROLEUM COMPANY OF NEW MEXICO

3. ADDRESS OF OPERATOR: 707 UNITED BANK CENTER, 1700 BROADWAY, DENVER, CO 80290

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*

At surface 3311' FSL & 1988' FWL (SE NW)

At top prod. interval reported below Same

At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME: UPRR

9. WELL NO.: 35-1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 35 - T2N - R6E SLM

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6-30-75	3-24-76	9-27-76	7275' GR 7300 KB Ref.	7275'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
17053'	11453'		→	All	-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Twin Creek 10704' to 11385'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, BHC Sonic, CNL Density, Diameter

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4"	60.7, 55.5 & 51	12510'	12¼"	260 Sx Class G	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7"	12224	17053	685 Pozmix + 415 Sx G	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8		Hanger @ 8509

31. PERFORATION RECORD (*Interval, size and number*)

10704-10724; 10739-10744; 10983-10993; 11014-11024; 11037-11057; 11082-11092; 11102-11112; 11117-11122; 11194-11224; 11235-11250; 11264-11290; 11308-11385 - All Twin Creek, 2 spf., 3/8" jets.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11194-11385	28% HCl + Sand
10704-11122	28% HCl + Sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
8-22-76	Pumping	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-27-76	24	Pump	→	128	75.9	2	593

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
50	-	→	128	75.9	2	34° @ 60° F

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED [signature] TITLE Division Production Superintendent DATE 4-21-78

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

INSTRUCT

General: This form is designed for submitting a complete and correct well completion report and [illegible] types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
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Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Twin Creek	10700	11400	Perf. Intervals from 10704-11385 Pumping 70 BOPD
Twin Creek	11760	11812	DST OP 15" SI 30" OP 60" SI 60" Rec. 1800 Water Cushion IHP 5612 IF 864-864 ISI 1359 FF 864-864 FSIP 1227 FHP 5546
Nugget	11855	11905	DST OP 5" SI 30" OP 60" SI 60" Rec. 6700' Salt Water IHP 5733 IFP 365/5485 ISIP 4845 FHP 5689 BHT 195° F
Bear River	16752	16820	DST 16794-16810 15" 90" 440 MCF GTS 7" Rec. 186' Oil, 93 Oil & Gas Cut Water, 1600 Muddy Water IHP 7043, IFP 580, FSIP 6864, FF 1706, FSIP 6227 DST 16794-16810 OP 1245", SI 1232", OP 1510", SI 1510" GTS 27" @ 1.1 MMCFPD Rec. 285' Cond. 475 G & Cond. Cut Muddy Water BHT 356° F IF 320, ISIGG 56, FF 1093 Gas @ 1.17 MMCFG Rec. 280' GCO, 475 O & GCW, 2325 GCW DST 16768-84, 16794-16810 (Perfs.) Flowed 92.5 MCF @ end 1080" IF 575-1761 Rec. 150 Cond. Cut Water 3470' Gas Cut Water

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Evanston	1798	
Current Ck.	3110	
Frontier	3317	
Aspen	4146	
Kelvin	4360	
Stump	8305	
Pruess	8723	
Twin Ck.	10413	
Nugget	11887	
Chinle	13360	
Shinarump	13998	
Thaynes	15276	
Woodside	15644	
Aspen	15982	
Bear River	16340	

ATTACHMENT

DST #1 8990/9230 (Twin Creek) TO 10" w/good blow. SI 60". pkrs. failed after 7" in 2nd opn, rec. 434' drlg. mud. N.S.

DST #2 9250/9500 (Twin Creek) Misrun

DST #3 9250/9500 (Twin Creek) TO 10" w/wk blow incr. to fair blow @ end of period, SI 60", TO 60" w/wk blow dead in 10", SI 20", rec. 130' slily G/C/M, IHP-4757, IFP-81/108, ISIP-351, FFP-81/108, FSIP-351, FHP-4785

DST #4 9570/9770' (Twin Creek) TO 10" w/very wk blow, SI 60", TO 60" w/no blow, SI 120", rec. 10' drlg. mud, NS of O or G, IHP-5103, IFP-189/162, ISIP-189, FFP-176/162, FSIP-230, FHP-5103

DST #5 9770/9902 (Twin Creek) TO 10" w/wk blow thruout, SI 60", TO 60" w/wk blow, remain wk to very wk thruout, SI 120". rec. 33' slily G/C/M, IHP-4925, IFP-108/81, ISIP-135, FFP-108/81, FSIP-122, FHP-4925

DST #6 10130/10170 (Nugget) w/no WC, TO 10" w/strong blow thruout, SI 60", TO 60" w/strong blow throut, SI 20", GTS in 40" into initial SI, flow rate 2nd opn 193 MCF, rec. 704' free oil & 100' hily G & O/C/M, IHP-5132, IFP-157/157, ISIP-3952, FFP-138/217, FSIP-3952, FHP-5032.

DST #7 10170/10212 (Nugget) w/no WC, TO 10" w/slite blow, SI 60", TO 60" w/slite blow, steady thruout, rec. 360' slily O & G/C/M, 780' gas in DP, IHP-5112, IFP-18/59, ISIP-1361, FFP-78/118, FSIP-1676, FHP-5072.

SOONER CHEMICALS

SOONER CHEMICAL SPECIALTIES, INC.

P. O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000

WATER ANALYSIS REPORT

COMPANY American Quasar ADDRESS Coalville, Utah DATE: 26 Feb 81

SOURCE 35-1 DATE SAMPLED _____ ANALYSIS NO. _____

Analysis		Mg/L		*Meq/L	
1. PH	6.75				
2. H_2S (Qualitative)					
3. Specific Gravity	1.110				
4. Dissolved Solids		150,441			
5. Suspended Solids					
6. Phenolphthalein Alkalinity ($CaCO_3$)					
7. Methyl Orange Alkalinity ($CaCO_3$)		60			
8. Bicarbonate (HCO_3)		HCO_3 73	÷61	1	HCO_3
9. Chlorides (Cl)		Cl 92,040	÷35.5	2,593	Cl
10. Sulfates (SO_4)		SO_4 750	÷48	16	SO_4
11. Calcium (Ca)		Ca 9,840	÷20	492	Ca
12. Magnesium (Mg)		Mg 1,021	÷12.2	84	Mg
13. Total Hardness ($CaCO_3$)		28,800			
14. Total Iron (Fe)		27			
15. Barium (Qualitative)					
16.					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

*			*
492	Ca	HCO_3	1
84	Mg	SO_4	16
2,034	Na	Cl	2,593

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/L
$CaSO_4 \cdot 2H_2O$	2,090 Mg/L
$MgCO_3$	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
$Ca(HCO_3)_2$	81.04		1		81
$CaSO_4$	68.07		16		1,089
$CaCl_2$	55.50		475		26,363
$Mg(HCO_3)_2$	73.17		0		0
$MgSO_4$	60.19		0		0
$MgCl_2$	47.62		84		4,000
$NaHCO_3$	84.00		0		0
Na_2SO_4	71.03		0		0
NaCl	58.46		2,034		118,908

REMARKS SRB's NEGATIVE

EXHIBIT VII

TABLE OF CURRENT RATES AND CUMULATIVE PRODUCTION

Well Name	Formation	Current Production (10/81)		Cumulative Production	
		BOPD	BWPD	BO	BW
Judd 34-2	Nugget	70	361	132,875	139,821
Judd 34-2	Twin Creek	Temporarily Abandoned			
Judd 34-3	Nugget	29	285	55,850	124,271
UPRR 27-1	Nugget	47	539	37,515	154,971
UPRR 35-1	Twin Creek	49	-0-	39,056	3,527
Total		195	1,185		

EXHIBIT VIII

JUDD 34-2

CONVERSION TO WATER DISPOSAL

SECTION 34, T2N-R6E, SUMMIT COUNTY, UTAH

1. MIRU. Kill well if necessary and NU BOP's.

2. TOH w/tubing. TIH w/bit and scraper to ±8500'. Pressure test casing 2500 psi. POH.

3. RU wireline company and perforate Stump intervals using 4" casing gun with 4 SPF:

8690-8730	(40')
8668-8682	(14')
8654-8658	(4')
8628-8642	(12')
	70' total

Depths refer to Schlumberger's Borehole Compensated Sonic log run 1/5/79. Dresser's Cement bond log with collar log, run 1/23/79, reads 1' shallow to Schlumberger log.

4. RIH w/retrievable pkr on 2 7/8" tbg. Break down formation w/rig pump. RU and swab to determine formation fluids. Catch samples of formation fluids for analysis. Notify State of Utah of plans to swab.

5. Acidize with 10,000 gals 15% HCl w/corrosion inhibitor. Drop 100 7/8" RCN (S.G = 1.1) ball sealers evenly spaced in last 2/3 of job. Max pump pressure 5000 psi. Overdisplace w/50 bbls treated produced water.

6. Kill well. POH w/tbg & pkr. TIH w/retrievable pkr on 2 7/8" internally coated tubing to ±8400'. Circ backside w/inhibited pkr fluid. Set pkr and test. ND BOP, NU wellhead, SI well until connection to disposal system complete.

7. Place well on injection. Do not exceed 2500 psi injection pressure.

APPROVED JTB DATE 12/21/81

SCHEMATIC DIAGRAM

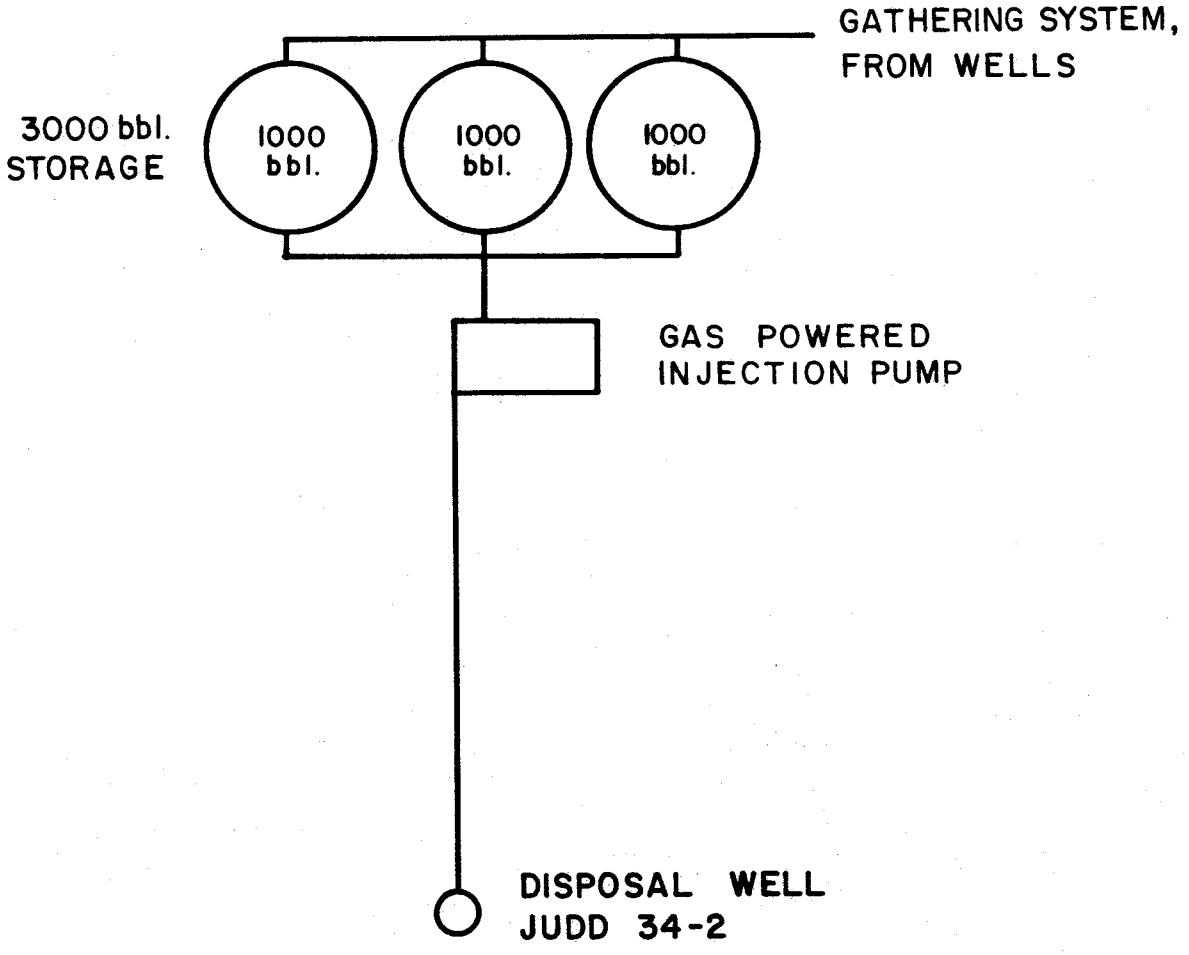


EXHIBIT X

AMERICAN QUASAR PETROLEUM CO.

LODGEPOLE DISPOSAL SYSTEM

SUMMIT COUNTY, UTAH

11-23-81

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

FORM NO. DOGM-UIC-1

IN THE MATTER OF THE APPLICATION OF
American Quasar Petroleum Co.
ADDRESS 707 United Bank Tower
1700 Broadway, Denver Co. ZIP 80290
INDIVIDUAL ___ PARTNERSHIP ___ CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE Judd 34-2 WELL
SEC. SENW 34 TWP. 2N RANGE 6E
Summit COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL ☐
DISPOSAL WELL ☒

APPLICATION

Comes now the applicant and shows the Division the following:
1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name: Judd	Well No.: 34-2	Field: Lodgepole	County: Summit
Location of Enhanced Recovery Injection or Disposal Well	Sec. 34	Twp. 2N	Rge. 6E
New Well To Be Drilled Yes ☐ No ☒	Old Well To Be Converted Yes ☒ No ☐	Casing Test Yes ☒ No ☐ Date 12/21/81	
Depth-Base Lowest Known Fresh Water Within ½ Mile ✓	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile YES ☐ NO ☐	State What	
Location of Injection Source(s): Juno 34-1, 34-3; UPRR 27-1, 35-	Geologic Name(s) and Depth of Source(s): Nugget, Twin Creek		
Geologic Name of Injection Zone: Stump	Depth of Injection Interval 8600' to 8750'		
a. Top of the Perforated Interval:	b. Base of Fresh Water:	c. Intervening Thickness (a minus b)	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO			
Lithology of Intervening Zones			
Injection Rates and Pressures: Maximum 1400 B/D; 2500 PSI			
The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent: Surface owners & lease hold owner			

State of _____)
County of _____)

_____
Applicant

Before me, the undersigned authority, on this day personally appeared _____ 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 _____ day of _____, 19 _____

SEAL

My commission expires _____ Notary Public in and for _____

(OVER)

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of fresh water from 2 or more producing wells within 1 mile of injection well showing location of wells and date samples were taken, or statement as to why samples were not submitted.

2. Attach qualitative and quantitative analysis of representative sample of water to be injected.

3. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within ½ mile, together and with name of operator.

4. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division.)

5. Attach Electric or Radioactivity Log of Subject well (if released).

6. 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.

7. The original and 6 copies of application, and one complete set of attachments shall be mailed to the Division.

8. Deliver 1 copy of application to landowner on whose land injection well is located and to each operator of a producing leasehold within ½ mile of injection well.

9. Affidavit of mailing or delivery shall be filed not later than five days after the application is filed.

10. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county in which the well is located. The Division shall file proof of publication before the application is approved. The notice shall include 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 will be approved administratively.

11. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed September 1st, each year.

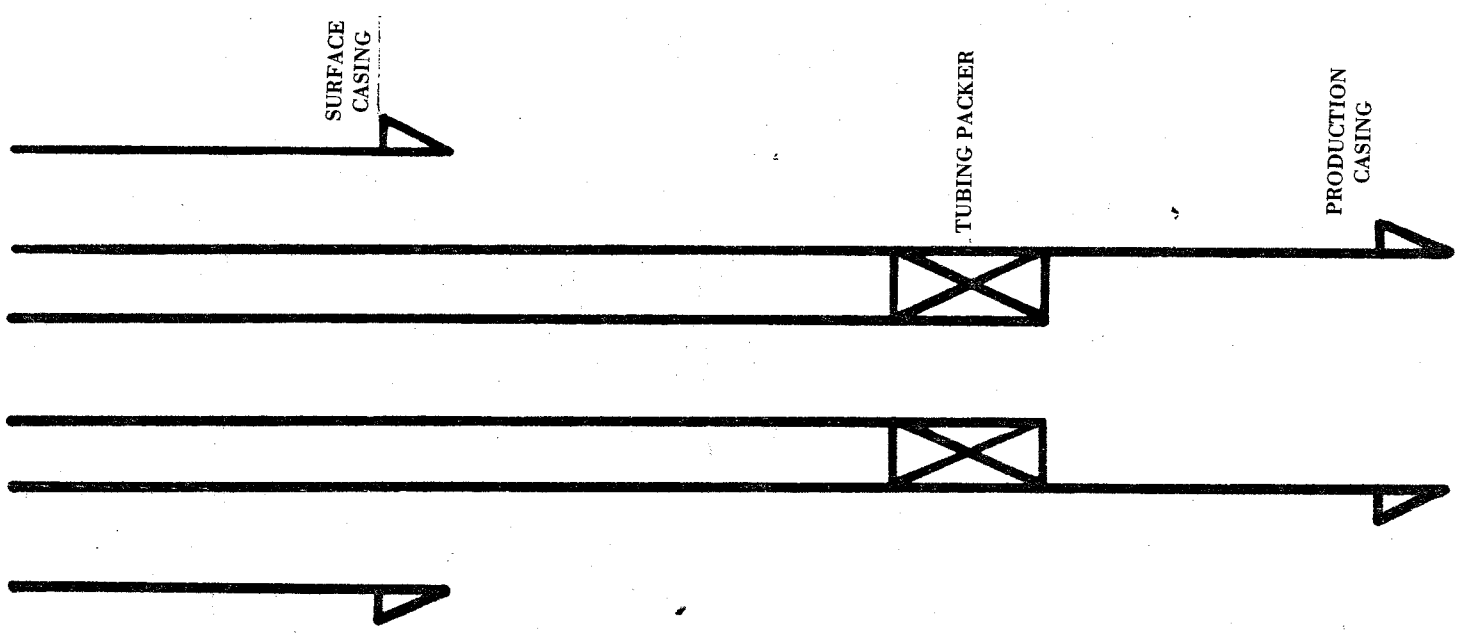
12. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.

13. If there is less intervening thickness required by Rule I-5 (b) 4 attach sworn evidence and data.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13 3/8"	481	6 yds	Sur	
Intermediate	9 5/8"	2018	1700 SX		
Production	5 1/2	11817	2146 SX	7287'	Temp/CBL
Tubing	2 7/8		Name - Type - Depth of Tubing Packer		
Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval		

SKETCH - SUB-SURFACE FACILITY



FORM DOGM-UIC-2
(Rule I-5 (b) 2

PLEASE TYPE OR USE BLACK INK ONLY

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

COUNTY LEASE NO. _____

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

API NO

640 Acres
N
W E
S
Locate Well Correctly and Outline Lease

COUNTY Summit SEC. 34 TWP. 2N RGE. 6E

COMPANY OPERATING Amoco

OFFICE ADDRESS _____

TOWN _____ STATE ZIP _____

FARM NAME _____ WELL NO. _____

DRILLING STARTED _____ 19 ___ DRILLING FINISHED _____ 19 ___

DATE OF FIRST PRODUCTION _____ COMPLETED _____

WELL LOCATED ____ ¼ ____ ¼ ____ ¼

____ FT. FROM SL OF ¼ SEC. & ____ FT. FROM WL OF ¼ SEC.

ELEVATION DERRICK FLOOR _____ GROUND _____

TYPE COMPLETION ?

Single Zone _____ Order No. _____

Multiple Zone _____ Order No. _____

Comingled _____ Order No. _____

LOCATION EXCEPTION Order No. _____ Penalty _____

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

TOTAL DEPTH _____

PACKERS SET DEPTH _____

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION			
SPACING & SPACING ORDER NO.			
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)			
OK PERFORATED			
OK INTERVALS yes.			
OK ACIDIZED? (yes)			
OK FRACTURE TREATED?			

INITIAL TEST DATA

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 _____ _____
Name and title of representative of company

Subscribed and sworn before me this _____ day of _____, 19 _____.

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

IN THE MATTER OF THE APPLICATION OF AMERICAN QUASAR PETROLEUM COMPANY FOR ADMINISTRATIVE APPROVAL TO DISPOSE OF SALT WATER INTO THE JUDD #34-2 WELL, SENW SECTION 34, TOWNSHIP 2 NORTH, RANGE 6 EAST, SUMMIT COUNTY, UTAH	)	NOTICE OF HEARING CAUSE NO. WD-104

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS, AND TAKERS OF OIL AND GAS, AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH.

NOTICE IS HEREBY GIVEN that American Quasar Petroleum Company, 707 United Bank Tower, 1700 Broadway, Denver, Colorado, 80290, is requesting that the Division authorize the approval of the injection of salt water into a well as follows:

LEASE AND WELL: Judd #34-2

INJECTION ZONE AND DEPTH: Stump Formation, 8628' - 8690'

INJECTION PRESSURE AND RATE: 1400 B/D, Maximum Pressure 2500 psi

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen (15) days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah.

DATED this 12th day of March, 1982.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING

Paula J. Frank

PAULA J. FRANK
Secretary of the Board

AMERICAN QUASAR PETROLEUM CO.

~~330 PACIFIC WESTERN LIFE BUILDING~~ / CASPER / WYOMING 82601 U.S.A. / TELEPHONE (307) 265-3362

OUR NEW ADDRESS:
204 SUPERIOR BLDG.
201 NO. WOLCOTT

August 8, 1978

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

Attention: Patrick Driscoll

Re: Judd #34-2
SE¼ NW¼ Section 34-2N-6E
Summit County, Utah

Gentlemen:

Attached is the Application for Permit to Drill with surveyor's plat, for the captioned well.

Please disregard previous APD filed on March 3, 1978 on this well without surveyor's plat. The location has since been moved.

If you have any questions, please contact me.

Very truly yours,

Kary J. Kaltenbacher

Kary J. Kaltenbacher
Division Drilling Engineer

KJK:bh
Enc's

RECEIVED
AUG 10 1978
DIVISION OF OIL, GAS, & MINING

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. Type of Well: Oil Well ☒ Gas Well ☐ Other Single Zone ☐ Multiple Zone ☒

2. Name of Operator: American Quasar Petroleum Co.

3. Address of Operator: 204 Superior Bldg., Casper, Wyoming 82601

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 1979.1' FNL & 2163.2' FWL SE NW
At proposed prod. zone: Same

5. Lease Designation and Serial No.: Fee

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Farm or Lease Name: Judd

9. Well No.: 34-2

10. Field and Pool, or Wildcat: Lodgepole

11. Sec., T., R., M., or Blk. and Survey or Area: 34-2N-6E

12. County: Summit 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: 7 miles south of Upton, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 476.8'

16. No. of acres in lease: 320.00

17. No. of acres assigned to this well: 80.00

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: 2457'

19. Proposed depth: 11,800'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 7666' GR

22. Approx. date work will start*: 9/15/78

RECEIVED AUG 10 1978 DIVISION OF OIL, GAS, & MINING

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2"	13-3/8"	36#	60'	60 sx (to surface)
12-1/4"	9-5/8"	36#	2,000'	1000 sx (to surface)
8-3/4"	7"	26 & 29#	12,000'	500 sx

ok

Proposed operations:

Drill 12¼" hole to 2,000'+-, using native mud.
Run and cement 9-5/8" surface casing.
Nipple up 10" 5000 psi wp doublegate hydraulic BOP & Hydril. Pressure-test stack.
Drill 8-3/4" hole to total depth with low solids non-disp.
Run BHC Sonic-GR-Cal, DIL, CNL-FDC Logs.
Run production casing if required.

ok

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.

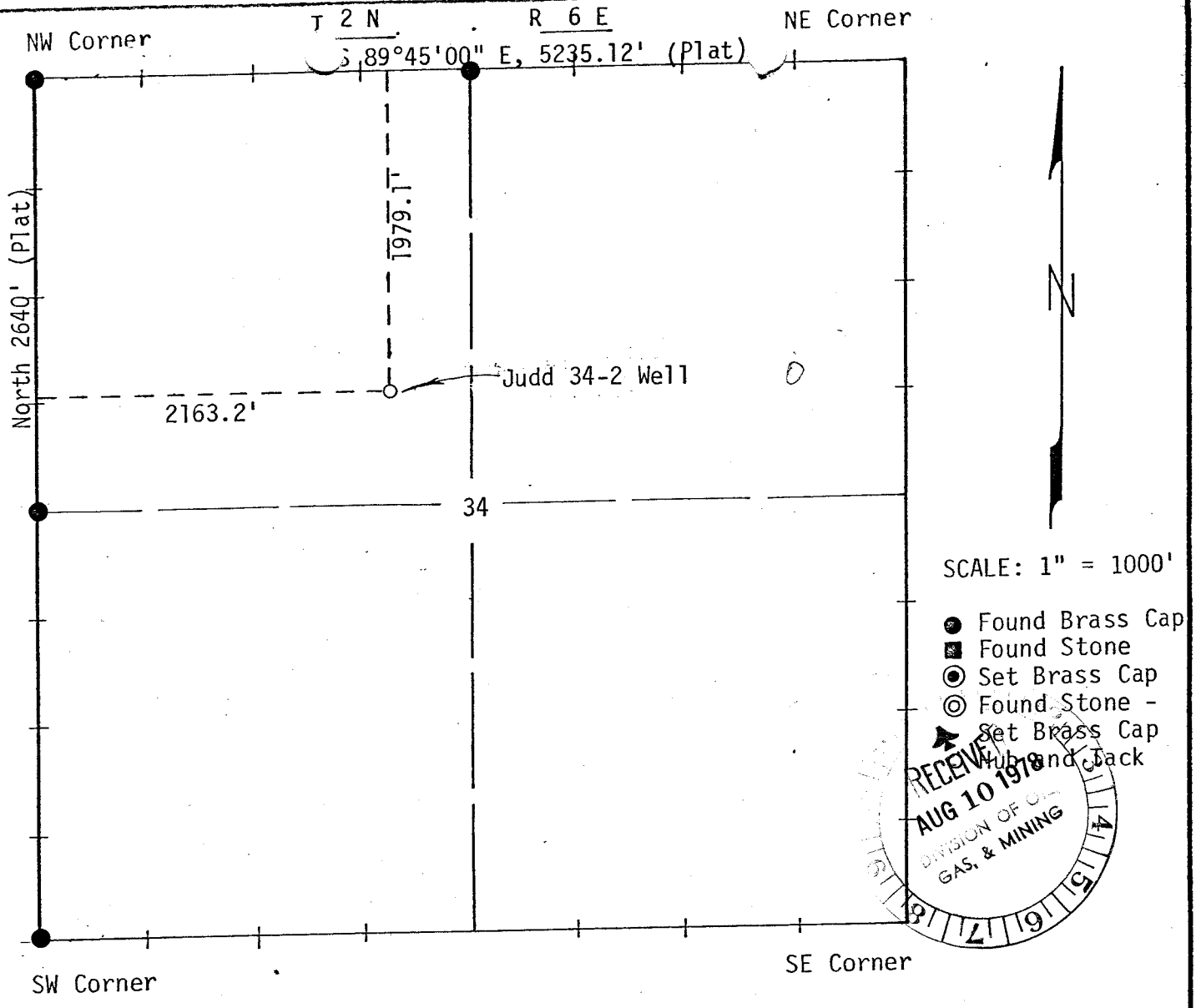
Signed: Kary J. Kaltenbacher Title: Division Drlg. Engr. Date: 8/8/78
Kary J. Kaltenbacher

(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side



RECEIVED AUG 10 1978 DIVISION OF OIL, GAS, & MINING

I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Kent Granbush of Coalville, Utah for American Quasar Petroleum Company I made a survey on the 31st day of July, 19 78 for Location and Elevation of the Judd 34-2 Well as shown on the above map, the wellsite is in the SE¼NW¼ of Section 34, Township 2 N, Range 6 E of the Salt Lake Base & Meridian, Summit County, State of Utah, Elevation is 7371 Feet top of hub Datum U.S.G.S. Quadrangle - Crandall Canyon, Utah Spot Elevation 7666' in the NW¼NE¼, Sec. 34, T2N, R6E, SLB&M

Reference point	200' West	Elev. top of pin	7348.3'
Reference point	400' West	"	7394.2'
Reference point	200' South	"	7390.4'
Reference point			

John A. Proffit 8/7/78

JOHN A. PROFFIT UTAH R.L.S. NO. 2860

UINTA ENGINEERING & SURVEYING, INC.
808 MAIN STREET, EVANSTON, WYOMING

DATE: 8/7/78
JOB NO.: 78-14-17

Form OGC-1a

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. Type of Well: Oil Well ☒ Gas Well ☐ Other Single Zone ☐ Multiple Zone ☒

2. Name of Operator: American Quasar Petroleum Co.

3. Address of Operator: 204 Superior Bldg., Casper, Wyoming 82601

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 1979.1' FNL & 2163.2' FWL
At proposed prod. zone: Same

5. Lease Designation and Serial No.: Fee

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Farm or Lease Name: Judd

9. Well No.: 34-2

10. Field and Pool, or Wildcat: Lodgepole

11. Sec., T., R., M., or Blk. and Survey or Area: 34-2N-6E

12. County: Summit 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: 7 miles south of Upton, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 476.8'

16. No. of acres in lease: 320.00

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18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: 2457'

19. Proposed depth: 14,800'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 7666' GR

22. Approx. date work will start*: 9/15/78

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2"	13-3/8"	36#	60'	60 sx (to surface)
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8-3/4"	7"	26 & 29#	12,000'	500 sx

RECEIVED AUG 10 1978 DIVISION OF OIL, GAS, & MINING

Proposed operations:

Drill 12¼" hole to 2,000'+-, using native mud.
Run and cement 9-5/8" surface casing.
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Signed: Kary J. Kaltenbacher Title: Division Drlg. Engr. Date: 8/8/78
Kary J. Kaltenbacher

(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....
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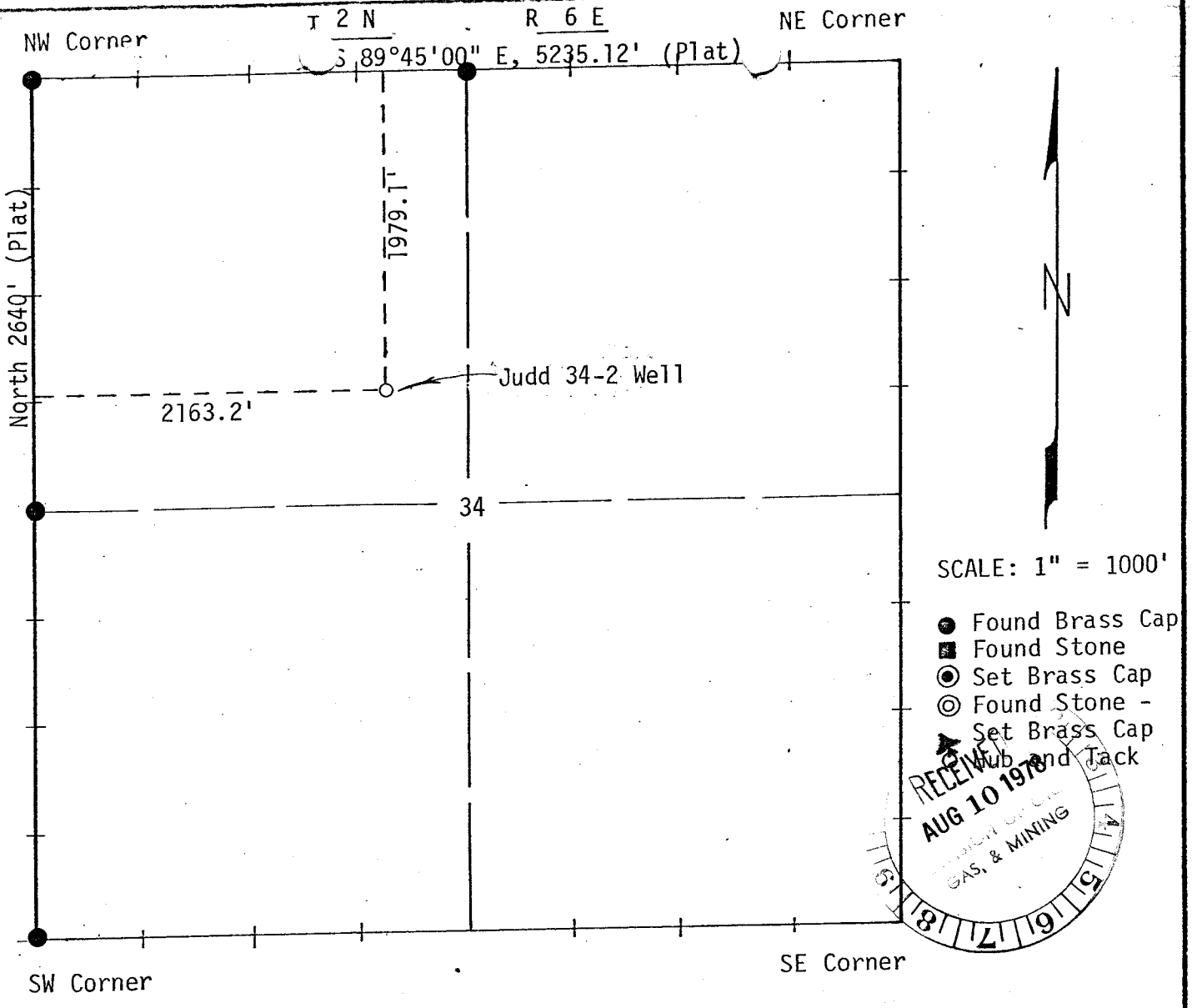

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John A. Proffit 8/7/78
JOHN A. PROFFIT UTAH R.L.S. NO. 2860
UINTA ENGINEERING & SURVEYING, INC.
808 MAIN STREET, EVANSTON, WYOMING

REGISTERED LAND SURVEYOR

DATE: 8/7/78
JOB NO.: 78-14-17

Form OGC-1a

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(Other instructions on reverse side)

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

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1a. Type of Work
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

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Oil Well ☒ Gas Well ☐ Other Single Zone ☐ Multiple Zone ☒

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At surface 1979.1' FNL & 2163.2' FWL

At proposed prod. zone
Same

5. Lease Designation and Serial No.
Fee

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name
Judd

9. Well No.
34-2

10. Field and Pool, or Wildcat
Lodgepole

11. Sec., T., R., M., or Blk. and Survey or Area
34-2N-6E

12. County ~~XXXXXX~~ 13. State
Summit Utah

14. Distance in miles and direction from nearest town or post office*
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Signed Kary J. Kaltenbacher Title Division Drlg. Engr. Date 8/8/78
Kary J. Kaltenbacher

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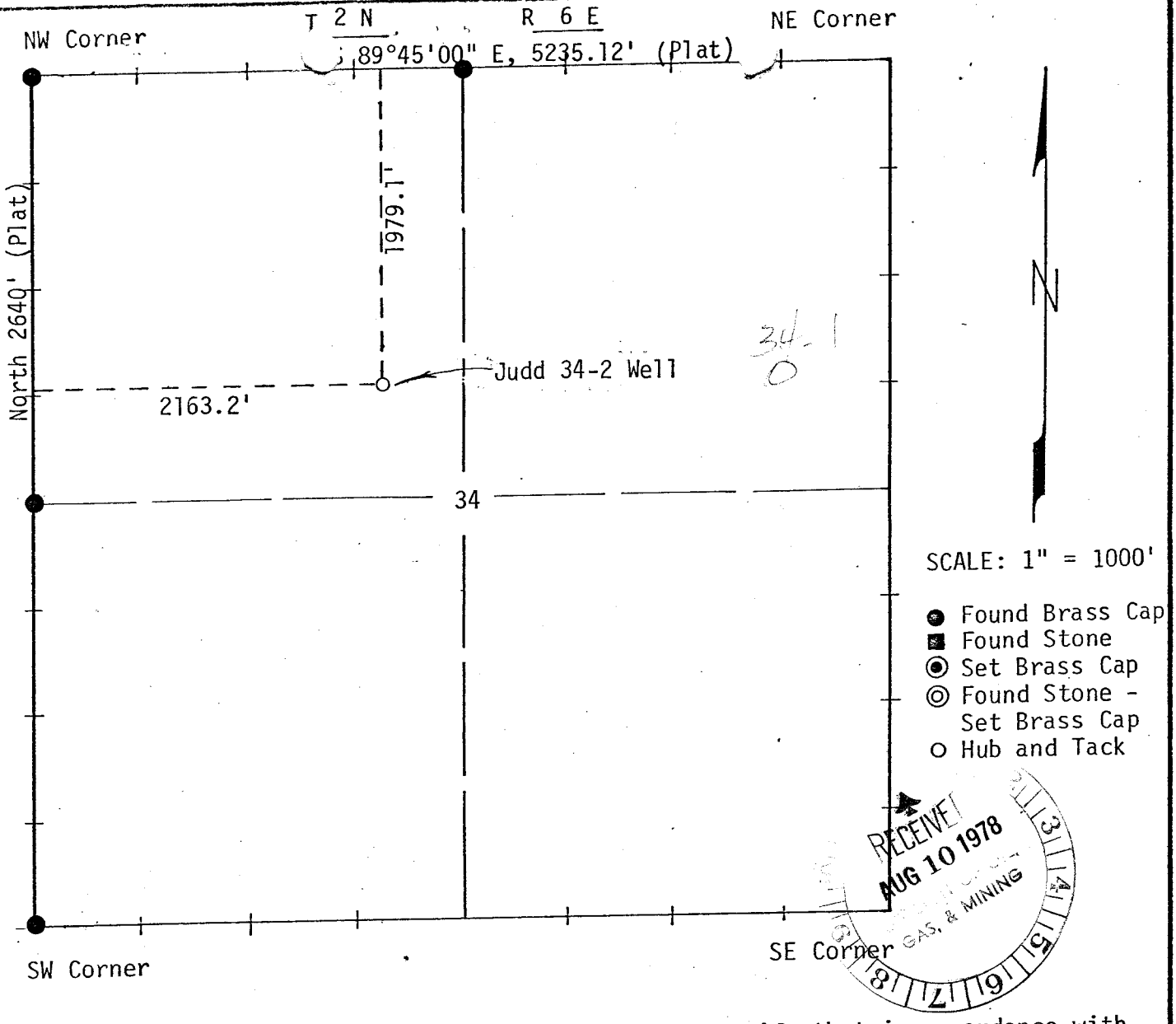
Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side



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John A. Proffit 8/7/78
JOHN A. PROFFIT UTAH R.L.S. NO. 2860

UINTA ENGINEERING & SURVEYING, INC.
808 MAIN STREET, EVANSTON, WYOMING

DATE: 8/7/78
JOB NO.: 78-14-17

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Aug. 11-

Operator: American Quasar

Well No: Judd 34-2

Location: Sec. 34 T. 2N R. 6E County: Summit

File Prepared: /____/ Entered on N.I.D.: /____/

Card Indexed: /____/ Completion Sheet: /____/

API Number: 43-043-30081

CHECKED BY:

Administrative Assistant: SW

Remarks: [illegible]

Petroleum Engineer: [illegible] ok

Remarks:

Director: _____

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: /OOO/ Survey Plat Required: /____/

Order No. _____ 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

August 17, 1978

American Quasar Petroleum Company
204 Superior Building
Casper, Wyoming 82601

Re: Judd 34-2
Sec. 34, T. 2 N, R. 6 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 Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

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.

The API number assigned to this well is 43-043-30081.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

cc:file

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

1. OIL WELL ☐ GAS WELL ☐ OTHER (Location)

2. NAME OF OPERATOR: American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR: 204 Superior Bldg., Casper, Wyo. 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1979.1' FNL & 2163.2' FWL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Judd

9. WELL NO.: 34-2

10. FIELD AND POOL, OR WILDCAT: Lodgepole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 34-2N-6E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7666' GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Approval to drill granted August 17, 1978.

No operations have been commenced as of this date.

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

SIGNED John F. Sindelar TITLE Division Drlg. Supt. DATE 9/1/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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8. FARM OR LEASE NAME: Judd

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SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			X
(Other)			☐				

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

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(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

orm OGC-1b

SUBMIT IN DUPLICATE*
(Other instructions 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.)

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1. OIL WELL ☐ GAS WELL ☐ OTHER (Drilling)

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2. NAME OF OPERATOR: American Quasar Petroleum Co.

8. FARM OR LEASE NAME: Judd

3. ADDRESS OF OPERATOR: 204 Superior Bldg., Casper, Wyo. 82601

9. WELL NO.: 34-2

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13. STATE: Utah

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FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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This is a Monthly Report of Operations for period 9/18-30/78 (see attached chronological report).

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

SIGNED John F. Sindelar TITLE Division Drlg. Supt. DATE 10/16/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

JUDD #34-2 (11,800' Twin Crk-Nugget - develop.) Summit Co.,Utah Chlk Crk Prosp.	9/18/78 FIRST REPORT. Staked loc. 1979' FNL & 2163' FWL (SE¼ NW¼) Sec. 34-2N-6E. Elevation: 7666' GR. Set. 48' 13-3/8" 48# H-40 conductor csg. w/Bill Jr's Rat Hole Drlg. Cemented w/6 yds. ready mix.
JUDD #34-2 (11,800' Twin Crk - Nugget - develop) Summit Co.,Utah Chlk Crk Prosp.	9/22/78 MIRT (True Drlg. - Rig #14).
JUDD #34-2 (11,800' Twin Crk-Nugget - develop) Summit Co.,Utah Chlk Crk Prosp.	9/23-25/78 RURT.
JUDD #34-2 (11,800' Twin Crk-Nugget - develop) Summit Co.,Utah Chlk Crk Prosp.	9/26/78 RURT.
JUDD #34-2 (11,800' Twin Crk-Nugget - develop) Summit Co.,Utah Chlk Crk Prosp.	9/27/78 Day #1 - Drlg. @ 318'. Drld. 254' in 12 hrs. MW 8.4; vis 36. Surveys: 1/8° @ 96', 158', 255'; ¼° @ 316'. Spudded @ 2:30 PM 9/26/78. Ran bit #1 (12¼" Smith DTJ - SN 375SE) @ 64'. Pulled bit #1 @ 156'. Bit drld. 92' in 7 hrs. Dull grade 8-2-I. Ran bit #2 (12¼" Hughes OSC1G - SN NN910). Bit has drld. 162' in 5 hrs. Drlg. wt 8-10,000#; RPM 100.
JUDD #34-2 (11,800' Twin Crk-Nugget-develop) Summit Co., Utah Chlk Crk Prosp.	9/28/78 2 days - Drlg @ 550'. Drld 232' in 20 hrs. MW 8.5, vis 35. Surveys: ¼° @ 316', ¼° @ 379', 3/4° @ 443', 1/8° @ 506'. Bit #2 has drld 394' in 25 hrs. Drlg wt 8-10,000#; RPM 120
JUDD #34-2 (11,800' Twin Crk-Nugget - develop) Summit Co.,Utah Chlk Crk Prosp.	9/29/78 3 days - Drlg. @ 1012'. Drld. 462' in 20 hrs. MW 8.6; vis 34. Surveys: 1/8° @ 569'; 3/4° @ 696' & 822'; 1° @ 946' & 1009'. Pulled bit #2 @ 569'. Bit drld. 413' in 25½ hrs. Dull grade 4-3-I. Ran bit #3 (12¼" Hughes J22 - SN LM727). Bit has drld. 443' in 20 hrs. Drlg. wt 6000#; RPM 90.
JUDD #34-2 (11,800' Twin Crk-Nugget - develop) Summit Co.,Utah Chlk Crk Prosp.	9/30/78 4 days - TD 1172'. Drld. 160' of ls in 13¾ hrs. PU bit #4. MW 8.9; vis 31; WL 19.0; pH 10.0. Survey: 1¼° @ 1170'. Pulled bit #3 @ 1172'. Bit drld. 603' in 33¾ hrs. Dull grade 4-1-I. Now PU bit #4.

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER (Drilling)

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: American Quasar Petroleum Co.

8. FARM OR LEASE NAME: Judd

3. ADDRESS OF OPERATOR: 204 Superior Bldg., Casper, Wyo. 82601

9. WELL NO.: 34-2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1979.1' FNL & 2163.2' FWL

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11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 34-2N-6E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7666' GR

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			☒
(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 is a Monthly Report of Operations for period 10/1-31/78 (see attached chronological report).

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

SIGNED John F. Sindelar TITLE Division Drlg. Supt. DATE 11/14/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

JUDD #34-2
(11,800' Twin Crk-
Nugget - develop)
Summit Co.,Utah
Chlk Crk Prosp.

9/30/78 4 days - TD 1172'. Drld. 160' of ls in 13¾ hrs. PU bit #4. MW 8.9; vis 31; WL 19.0; pH 10.0. Survey: 1¼° @ 1170'. Pulled bit #3 @ 1172'. Bit drld. 603' in 33¾ hrs. Dull grade 4-1-I. Now PU bit #4.

10/1 5 days - Drlg. in ls @ 1301'. Drld. 129' in 21-3/4 hrs. MW 8.9; vis 33; WL 19.5; pH 8.5. Survey: 1° @ 1292'. Ran bit #4 (12¼" Hughes J22 - SN 095YL) @ 1172'. Bit has drld. 129' in 21-3/4 hrs. Drlg. wt 10,000#; RPM 95.

10/2 6 days - Drlg. in sh & sltstn @ 1453'. Drld. 152' in 22-3/4 hrs. MW 8.9; vis 39; WL 19.0; pH 9.5. Survey: 1° @ 1443'. Bit #4 has drld. 281' in 44½ hrs. Drlg. wt 10,000#; RPM 95.

JUDD #34-2
(11,800' Twin Crk-
Nugget - develop)
Summit Co.,Utah
Chlk Crk Prosp.

10/3/78 7 days - Drlg. in blk sh, sd, gumbo & cglt @ 1554'. Drld. 101' in 21-3/4 hrs. MW 8.8; vis 38; WL 19.0; pH 8.5. Survey: 1° @ 1545'. Bit #4 has drld. 382' in 65-3/4 hrs. Drlg.wt 15,000#; RPM 95.

JUDD #34-2
(11,800' Twin Crk-
Nugget - develop)
Summit Co.,Utah
Chlk Crk Prosp.

10/4/78 8 days - Drlg. in blk sh, lignite, gumbo & ss @ 1714'. Drld. 160' in 23 hrs. MW 8.8; vis 35; WL 19.5; pH 10.0. Survey: 1° @ 1703'. Bit #4 has drld. 542' in 88-3/4 hrs. Drlg. wt 15,000#; RPM 95.

JUDD #34-2
(11,800' Twin Crk-
Nugget - develop)
Summit Co.,Utah
Chlk Crk Prosp.

10/5/78 9 days - Drlg. in sh @ 1879'. Drld. 165' in 20-3/4 hrs. MW 8.8; vis 35; WL 14.0; pH 9.5. Surveys: 1¼° @ 1767'; 1° @ 1798' & 1859'. Pulled bit #4 @ 1823'. Bit drld. 651' in 105¼ hrs. Dull grade 5-2-I. Ran bit #5 (12¼" Hughes OWV - SN 99986). Bit has drld. 56' in 4¼ hrs. Drlg. wt 10-15,000#; RPM 100.

JUDD #34-2
(11,800' Twin Crk-
Nugget - develop)
Summit Co.,Utah
Chlk Crk Prosp.

10/6/78 10 days - TD 2011'. Drld. 132' of sh in 14¼ hrs. RD Schlumberger. MW 8.8; vis 45; WL 19.0; pH 8.5. Survey: 1° @ 2011'. Pulled bit #5 @ 2011' to run logs. Bit drld. 188' in 18½ hrs. Dull grade 4-3-I. Ran DIL, BHC-Sonic & dipmeter 2006'-65'. Now RD Schl.

JUDD #34-2
(11,800' Twin Crk-
Nugget - develop)
Summit Co.,Utah
Chlk Crk Prosp.

10/7/78 11 days - TD 2018'. Drld. 7' in 3/4 hr. WOC. MW 8.8; vis 48; WL 19.0; pH 8.5. Pulled bit #RR5 @ 2018'. Bit drld. 7' in 3/4 hr. Dull grade 4-3-I. Ran 9-5/8" csg. as follows:

29 jts K-55 36# ST&C	1187'
19 jts K-55 40# ST&C	831'
Total:	2018'

Ran guide shoe & insert float. Landed csg. @ 2018' KB. Cemented as follows: 20 bbls. WC, followed by 1250 sx Howco Light, 10# gilsonite, ¼# flocele & 2% CaCl, followed by 350 sx Class "G", ¼# flocele & 2% CaCl. Had good returns thruout job. Cmt. circ. Bumped plug. PD 8:00 PM 10/6/78. Float held. Cmt. dropped back after bumping plug. Now WOC, prep to 1".

10/8 12 days - TD 2018'. Drlg. shoe. MW 8.5; vis 43; WL 19.5; pH 8.5. Tagged cmt. w/1" @ 90'. Cemented w/100 sx Class "G", 3% CaCl. NU BOPE. Pressure-tested w/Yellow Jacket to 3000 psi; Hydril to 1000; csg. to 1500. Ran bit #6 (8-3/4" Hughes OSC1GJ - SN JZ807). Tagged cmt. @ 1976'. Now drlg. shoe.

JUDD #34-2 (cont)
Summit Co., Utah

10/9/78 13 days - Drlg. in blk sh @ 2245'. Drld. 227' in 22 hrs. MW 8.6; vis 38; WL 9.8; pH 12.5. Survey: 1½° @ 2238'. Bit #6 has drld. 227' in 22 hrs. Drlg. wt 15,000#; RPM 90.

JUDD #34-2
(11,800' Twin Crk-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/10/78 14 days - Drlg. in sd & sh @ 2360'. Drld. 115' in 14½ hrs. MW 8.5; vis 43; WL 9.6; pH 11.0. Survey: 1° @ 2350'. Pulled bit #6 @ 2245'. Bit drld. 227' in 26 hrs. Dull grade 4-4-1/8". While drlg., constantly losing 15 bbl/hr drlg. fluid. TIH open-ended. Set 30-bbl pronto plug pill 2285-2018'. POH. Ran bit #7 (8-3/4" Reed FP51 - SN 424182) @ 2245'. Bit has drld. 115' in 14½ hrs. Now drlg. w/full returns. Drlg. wt 12,000#; RPM 82.

JUDD #34-2
(11,800' Twin Crk-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/11/78 15 days - Drlg. in sh @ 2590'. Drld. 230' in 21-3/4 hrs. MW 8.6; vis 45; WL 9.6; pH 10.0. Survey: 1½° @ 2539'. Bit #7 has drld. 345' in 36¼ hrs. Lost complete returns @ 2489'--lost 120 bbls. Regained returns; now drlg. w/full returns. Drlg. wt 8000#; RPM 84.

JUDD #34-2
(11,800' Twin Crk-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/12/78 16 days - Drlg. in sd & sh @ 2685'. Drld. 95' in 7½ hrs. MW 8.7; vis 46; WL 9.5; pH 9.5. Survey: 2° @ 2666'. Bit #7 has drld. 440' in 43-3/4 hrs. Lost circ. @ 2675'. Could not regan ret's w/LCM. Ran 30-bbl pronto plug pill 2675-2375'. Washed & reamed to bottom. Now drlg. w/full ret's. Drlg. wt 8000#; RPM 88.

JUDD #34-2
(11,800' TC-N dev)
Summit Co., Utah
Chlk Crk Prosp

10/13/78 17 days - TD 2694'. Setting pronto plug. Drld 9' in 2 hrs. MW 8.6, vis 46, WL 9.8, pH 9.5. Pulled bit #7 @ 2694' for DST #1. Bit has drld 449' in 45 3/4 hrs. Will rerun. Ran DST #1 2620-94'. TO 60 min w/strong blow; remaining constant thruout flow period. SI 60 min. Pulled test to rec 941' 8.6#/gal drlg mud containing pronto plug & no shows. Bomb depth-2597'; IHP-1104, IFP-449/464, ISIP-702, FHP-1059; BHT-80°. Sampler capacity-2000 cc; rec 0 0 psi-200 cc drlg mud; rstv-4.31 @ 64°. Reran bit #7 @ 2694'. Could not regain circ. Mixed 4 bbls pronto plug. Displaced. Now WO set-up.

JUDD #34-2
(11,800' TC-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/14/78 18 days - Drlg. in sd & sh @ 2799'. Drld. 105' in 8-3/4 hrs. MW 8.4; vis 46; WL 10.5; pH 9.5. Lost circ. @ 2706'. Mixed LCM--regained circ. Lost circ. @ 2731'. Mixed 10 bbls pronto plug. Set plug @ 2731'. WO setup 1½ hr. Attempted to fill hole--could not. Mixed 5 bbls. pronto plug. Set plug @ 2450'. WO setup 3 hrs. Resumed drlg. w/full returns. Started losing returns @ 2741'. Lost 850 bbls. mud in last 24 hrs. Bit #7 has drld. 554' in 54½ hrs. Now drlg. w/60-80% returns. Drlg. wt 8000#; RPM 75.

JUDD #34-2 (cont)
Summit Co., Utah

10/15/78 19 days - TD 2822'. TIH w/bit #8. Drld. 23' in 5 hrs. Survey: 2¼° @ 2799'. Lost circ. @ 2822'--could not keep up w/mud loss. Set 150-sk plug, 50-50 calseal, 12½# gilsonite & ½# flocele 2822-2685' (137'); set another 150-sk plug, 50-50 calseal, 12½# gilsonite & ½# flocele 2685-2342' (343'). Pulled bit #7 @ 2822'. Bit drld. 577' in 59½ hrs. Dull grade 6-2-1/8". Now running bit #8 (8-3/4" Smith DGTH - SN 655KK) @ 2822'. Lost 500 bbls. mud in last 24 hrs.

10/16 20 days - Drlg. @ 2937'. Drld. 115' in 16-3/4 hrs. MW 8.4; vis 40; WL 10.0; pH 11.5. Surveys: 2½° @ 2861'; 1-3/4° @ 2924'. Finished running bit #8 @ 2822'. Drld. cmt. 2342-2822' (480'). Bit #8 has drld. 115' in 16-3/4 hrs. Drlg. wt 8-15,000#; RPM 74-82. Now drlg. w/full returns.

JUDD #34-2
(11,800' TC-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/17/78 21 days - Drlg. in Frontier @ 3108'. Drld. 171' in 21 hrs. MW 8.5; vis 46; WL 9.5; pH 10.0. Surveys: 1-3/4° @ 2956'; 1½° @ 2988' & 3051'. Pulled bit #8 @ 3000'. Bit drld. 178' in 29 hrs. Dull grade 6-4-¼". Ran bit #9 (8-3/4" Smith F2 - SN 284MJ). Bit has drld. 108' in 8-3/4 hrs. Drlg. wt 18,000#; RPM 86. Frontier sample top: 2805'.

JUDD #34-2
(11,800' TC-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/18/78 22 days - Drlg. in sh, sltstn & coal @ 3383'. Drld. 275' in 22½ hrs. MW 8.5; vis 45; WL 10.0; pH 10.0. Survey: 1° @ 3336'. Bit #9 has drld. 383' in 31¼ hrs. Carrying 2 units bgg. Drlg. wt 24,000#; RPM 84.

JUDD #34-2
(11,800' TC-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/19/78 23 days - Drlg. in sh w/sd stringers @ 3605'. Drld. 222' in 21 hrs. MW 8.5; vis 41; WL 9.6; pH 9.5. Survey: 2° @ 3590'. Bit #9 has drld. 605' in 52¼ hrs. Drlg. wt 22,000#; RPM 84.

JUDD #34-2
(11,800' TC-Nugget - develop)
Summit Co., Utah
Chlk Crk Prosp.

10/20/78 24 days - Drlg. in sd, sh & sltstn @ 3808'. Drld. 203' in 22-3/4 hrs. MW 8.6; vis 46; WL 9.2; pH 9.5. Survey: 1½° @ 3777'. Bit #9 has drld. 808' in 75 hrs. Lost 155 bbls. mud 3625-3655'. Carrying 2 units bgg. Drlg. wt 20,000#; RPM 84.

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

10/21/78 25 days - Drlg sh & sltsn @ 3928'. Drld 120' in 13 hrs. MW 8.6, vis 41, WL 9.4, pH 10.0. Survey: 1¼° @ 3905'. Pulled bit #9 @ 3837'. Bit drld 837' in 80½ hrs. Dull grade 6-7-¼. Ran bit #10 (8 3/4" Hughes J22 - SN 8D1FG) @ 3837'. Bit has drld 91' in 7½ hrs. Carrying 3 UN BGG. Drlg wt 18,000#; RPM-84.

10/22/78 26 days - Drlg sh & sltstn @ 4178'. Drld 250' in 23 hrs. MW 8.6, vis 47, WL 9.2, pH 10.0. Survey: 1½° @ 4093'. Bit #10 has drld 341' in 30½ hrs. Carrying 2 UN BGG. Drlg wt-24,000#; RPM-84.

10/23/78 27 days - Drlg sh & sltsn @ 4402'. Drld 224' in 22 hrs. MW 8.6, vis 50, WL 9.6, pH 10.0. Survey: 2° @ 4378'. Bit #10 has drld 5[illegible] in 52½ hrs. Carrying 1 UN BGG. Lost 100 bbls mud @ 4252'. Now drlg w/full returns. Drlg wt-24,000#; RPM-84.

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

10/24/78 28 days - TD 4522'. Running DST #2. Drld 120' of Frontier formation in 10½ hrs. MW 8.6, vis 47, WL 9.4, pH 10.0. Survey: 2½° @ 4522'. Pulled bit #10 @ 4522'. Bit drld 685' in 63 hrs. Dull grade 8-2-½. Now running DST #2 4443-4522' Frontier. Had sli yellow stain & sli incrs in BGG 4438-97'.

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

10/25/78 29 days - TIH w/bit @ 4522'. MW 8.6, vis 48, WL 9.4, pH 10.0. Ran DST #2 4443-4522'. Hit bridge; DST #2 misrun. POH w/test tools. TIH w/bit; cleaned out bridge; POH. Ran DST #3 4443-4522'. Tool plugged off; DST #3 misrun. Now TIH w/bit #11 (8 3/4" Hughes OWV - SN EG121) @ 4522' to clean out.

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

10/26/78 30 days - TD 4525'. Running DST #4. Drld 3' of Frontier formation in ½ hr. MW 8.6, vis 48, WL 9.8, pH 10.0. Fin TIH w/bit #11 @ 4522'. Broke circ @ 3500'. Lost 200 bbls fluid. POH w/bit #11. Bit drld 3' in ½ hr. Will rerun bit. Mixed LCM; regained returns. TIH w/bit to clean out to 4525'. Circ. POH. TIH w/test tools for DST #4 (4443-4525', Frontier). TO 10 min w/1" blow incrs to btm of bucket in 8 min; SI 60 min; TO 60 min, off btm of bucket in 8 min; no gas or fluid to surface; SI 120 min. Now TOH w/DST #4.

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

10/27/78 31 days - Drlg in Aspen formation @ 4686'. Drld 161' in 16½ hrs. MW 8.6, vis 41, WL 9.6, pH 10.5. Survey: 2° @ 4631'. Fin TOH w/DST #4. Rec 584' mud & wtr + 897' wtr. Bomb depth-4423'. IHP-1995, IFP-123/222, ISIP-1502, FFP-283/616, FSIP-1502, FHP-1921, BHT-105° F. Sampler capacity-2000 cc's; rec @ 8 psi 1900 cc's wtr; rstv-6 @ 60°; nitrates-20 ppm, chl's-11 ppm. Ran bit #11 (8 3/4" Hughes OWV - SN EG121) @ 4525'. Bit has drld 161' in 17 hrs. Drlg wt-20,000#; RPM-84. Sample top: Aspen @ 4570'.

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

10/28/78 32 days - Drlg. in Aspen sh @ 4819'. Drld. 132' in 20 hrs. MW 8.7; vis 48; WL 9.6; pH 10.5. Survey: 3° @ 4752'. Pulled bit #11 @ 4752'. Bit drld. 230' in 27½ hrs. Dull grade 6-4-I. Ran bit #12 (8-3/4" Sec. S84F - SN 820975). Bit has drld. 67' in 9½ hrs. Drlg. wt 20,000#; RPM 84.

10/29 33 days - Drlg. in Bear River @ 5000'. Drld. 181' in 23½ hrs. MW 8.7; vis 42; WL 9.0; pH 10.0. Survey: 3° @ 4977'. Bit #12 has drld. 248' in 33 hrs. Bear River sample top: 4855'. Carrying 2 units bgg. Drlg. wt 20,000#; RPM 84.

10/30 34 days - Drlg. in bentonitic sh @ 5112'. Drld. 112' in 22-3/4 hrs. MW 8.7; vis 41; WL 9.2; pH 10.5. Survey: 2-3/4° @ 5102'. Bit #12 has drld. 360' in 55-3/4 hrs. Drlg. wt 20,000#; RPM 84.

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

10/31/78 35 days - Drlg. in bentonitic sh @ 5218'. Drld. 106' in 17¼ hrs. MW 8.7; vis 46; WL 6.0; pH 9.0. Survey: 2-3/4° @ 5158'. Pulled bit #12 @ 5158'. Bit drld. 406' in 63¾ hrs. Dull grade 6-2-1/8". Ran bit #13 (8-3/4" Hughes OSC1GJ - SN DT861). Bit has drld. 60' in 9-3/4 hrs. Drlg. wt 20,000#; RPM 84.

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

1. OIL WELL ☐ GAS WELL ☐ OTHER (Drilling)

2. NAME OF OPERATOR: American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR: 204 Superior Bldg., Casper, Wyo. 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1979.1' FNL & 2163.2' FWL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Judd

9. WELL NO.: 34-2

10. FIELD AND POOL, OR WILDCAT: Lodgepole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 34-2N-6E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7666' GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

This is a Monthly Report of Operations for period 11/1-30/78 (see attached chronological report).

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

SIGNED John F. Sindelar TITLE Division Drlg. Supt. DATE 12/8/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/1/78 36 days - Drlg. in Kelvin @ 5318'. Drld. 100' in 16-3/4 hrs. MW 8.9; vis 46; WL 5.6; pH 10.0. Survey: 2¼° @ 5227'. Pulled bit #13 @ 5249'. Bit drld. 91' in 15-3/4 hrs. Dull grade 6-4-I. Ran bit #14 (8-3/4" Smith F2 - SN 659RR). Bit has drld. 69' in 11 hrs. Drlg. wt 22,000#; RPM 84.

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/2/78 37 days - Drlg. in shale @ 5458'. Drld. 140' in 22½ hrs. MW 8.9; vis 46; WL 4.6; pH 9.0. Survey: 2° @ 5412'. Bit #14 has drld. 209' in 33½ hrs. Drlg. wt 24,000#; RPM 84.

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/3/78 38 days - Drlg. in Kelvin @ 5610'. Drld. 152' in 23 hrs. MW 8.9; vis 43; WL 9.6; pH 10.5. Survey: 2° @ 5571'. Bit #14 has drld. 361' in 56½ hrs. Carrying 1 unit bgg. Drlg. wt 25,000#; RPM 80.

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/4/78 39 days - Drlg. in Kelvin slt & sh @ 5760'. Drld. 150' in 19½ hrs. MW 9.0; vis 43; WL 9.0; pH 10.0. Survey: 2° @ 5760'. Pulled bit #14 @ 5704'. Bit drld. 455' in 69¼ hrs. Dull grade 5-4-1/16". Ran bit #15 (8-3/4" Hughes J22 - SN NJ564). Bit has drld. 56' in 6-3/4 Hrs. Drlg. wt 30,000#; RPM 80.

11/5 40 days - Drlg. in Kelvin sh @ 5980'. Drld. 220' in 22¼ hrs. MW 9.0; vis 41; WL 8.8; pH 11.0. Survey: 1½° @ 5947'. Bit #15 has drld. 276' in 29 hrs. Drlg. wt 30,000#; RPM 78.

11/6 41 days - Drlg. in Kelvin sh @ 6224'. Drld. 244' in 22-3/4 hrs. MW 9.0; vis 51; WL 9.2; pH 10.0. Survey: 1-3/4° @ 6136'. Bit #15 has drld. 520' in 51-3/4 hrs. Drlg. wt 30,000#; RPM 76.

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/7/78 42 days - Drlg. in sh @ 6460'. Drld. 236' in 22¼ hrs. MW 9.0; vis 51; WL 9.6; pH 10.0. Survey: 1½° @ 6420'. Bit #15 has drld. 756' in 74 hrs. Drlg. wt 30,000#; RPM 74.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co.,Utah
Chlk Crk Prosp.

11/8/78 43 days - Drlg. in shale @ 6704'. Drld. 244' in 22-3/4 hrs. MW 9.0; vis 42; WL 9.8; pH 10.0. Survey: 2½° @ 6610'. Bit #15 has drld. 1000' in 96-3/4 hrs. Drlg. wt 35,000#; RPM 74.

JUDD #34-2
(11,800' TC-Nugg-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/9/78 44 days - Tripping out @ 6892'. Drld. 188' in 21 hrs. MW 9.0; vis 47; WL 9.6; pH 10.0. Survey: 2-3/4° @ 6798'. Now pulling bit #15 @ 6892'. Bit drld. 1188' in 117-3/4 hrs. Will change out rotary table while out of hole.

JUDD #34-2
(11,800' TC-Nugg-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/10/78 45 days - Drlg. in sh @ 7040'. Drld. 148' in 15¼ hrs. MW 9.0; vis 41; WL 9.8; pH 10.0. Survey: 2½° @ 6987'. Pulled bit #15 @ 6892'. Dull grade 6-4-1/8". Ran bit #16 (8-3/4" Smith F2 - SN 653NX). Bit has drld. 148' in 15¼ hrs. Drlg.wt 30,000#; RPM 74.

JUDD #34-2
(11,800' TC-Nugget-devel)
Summit Co.,Utah
Chlk Crk Prosp.

11/11/78 46 days - Drlg. in Kelvin @ 7195'. Drld. 155' in 22-3/4 hrs. MW 9.0; vis 44; WL 9.0; pH 8.0. Survey: 2½° @ 7144'. Bit #16 has drld. 303' in 38 hrs. Drlg. wt 26,000#; RPM 74.

11/12 47 days - Drlg. in Kelvin @ 7366'. Drld. 171' in 23-3/4 hrs. MW 9.0; vis 45; WL 7.2; pH 9.5. Survey: 2½° @ 7334'. Bit #16 has drld. 474' in 60-3/4 hrs. Drlg.wt 28,000#; RPM 78.

JUDD #34-2 (cont)
Summit Co.,Utah,

11/13/78 48 days - TD 7425'. Drld. 59' of Kelvin sh in 6¼ hrs. TIH breaking circ. every 500'. MW 8.7; vis 44; WL 12.0; pH 8.5. Pulled bit #16 @ 7425'. Bit drld. 533' in 67 hrs. Dull grade 6-8-3/4". Now TIH w/bit #17 (8-3/4" Hughes OWVJ - SN AS737) @ 7425'. Lost complete ret's @ 7425'. Lost 400 bbls. w/concentrations of LCM (20%). Spotted 7½-bbl pronto plug 7425-7300'. POH. Now TIH breaking circ. every 5 stands.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co.,Utah
Chlk Crk Prosp.

11/14/78 49 days - Drlg. in sd & sh @ 7505'. Drld. 80' in 15 hrs. MW 8.8; vis 47; WL 9.0; pH 10.0. Survey: 1° @ 7460'. Pulled bit #17 @ 7460'. Bit drld. 35' in 9 hrs. Dull grade 4-2-I. Ran bit #18 (8-3/4" Hughes J22 - SN NJ573). Bit has drld. 45' in 6 hrs. Drlg. wt 30,000#; RPM 80.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co.,Utah
Chlk Crk Prosp.

11/15/78 50 days - TD 7577'. Drld. 72' Kelvin in 7-3/4 hrs. Running DST #5. MW 8.8; vis 47; WL 9.2; pH 10.0. Survey: 1¼° @ 7556'. Pulled bit #18 @ 7577' for DST. Bit drld. 117' in 13-3/4 hrs. Will rerun. Had drlg.break 7550-7570'. Had 12-unit gas increase. Ran DST #5 - 7551-7577'. TO 10 min--w/strong blow. Now running ISI.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co.,Utah
Chlk Crk Prosp.

11/16/78 51 days - Drlg. in Kelvin @ 7667'. Drld. 90' in 10¼ hrs. MW 8.8; vis 40; WL 9.6; pH 9.5. Survey: 1° @ 7651'. Finished running ISI (60 min) on DST #5; TO 60 min--w/strong blow, decreased to wk blow in 40 min; SI 120 min. Pulled DST #5 to rec. 4510' fluid consisting of 90' drlg. mud, 2420' muddy wtr & 2000' wtr. Bomb depth 7526'. IHP 3588; IFP 813/1330; ISIP 3007; FFP 1330/1958; FSIP 2798; FHP 3513; BHT 124° F. Smplr. cap: 2100 cc's; rec. @ 0 psi, 2100 cc's wtr. Rstv: .6 @ 65°; 10,500 ppm chl's; mud pit smpl. 900 ppm chl's. Reran bit #18 (8-3/4" Hughes J22 - SN NJ573) @ 7577'. Bit has drld. total of 207' in 24 hrs. Drlg. wt 25,000#; RPM 70.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

11/17/78 52 days - Drlg. in Kelvin @ 7859'. Drld. 182' in 23¼ hrs. MW 8.8; vis 40; WL 9.2; pH 10.0. Survey: 1° @ 7778'. Bit #18 has drld. 399' in 47¼ hrs. Drlg. wt 30,000#; RPM 84.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

11/18/78 53 days - Drlg. in Stump @ 7949'. Drld. 90' in 11½ hrs. MW 8.8; vis 50; WL 10.0; pH 9.5. Survey: 1½° @ 7936'. Bit #18 has drld. 489' in 58-3/4 hrs. Lost complete returns @ 7869'. Mixed & spotted 10-bbl pronto plug pill. POH to 2550'. Spotted 5-bbl pronto plug pill. POH. Tripped back in hole slowly. Regained circ. Now drlg. w/100% ret's. Stump sample top: 7551'. Drlg. wt 30,000#; RPM 84.

11/19 54 days - Drlg. in Stump @ 8129'. Drld. 180' in 22-3/4 hrs. MW 8.9; vis 42; WL 9.8; pH 10.0. Survey: 1½° @ 8030'. Bit #18 has drld. 659' in 81½ hrs. Drlg. wt 30,000#; RPM 84.

11/20 55 days - Drlg. in Stump @ 8224'. Drld. 95' in 15¼ hrs. MW 8.9; vis 48; WL 9.6; pH 10.0. Survey: 2° @ 8160'. Pulled bit #18 @ 8160'. Bit drld. 700' in 87 hrs. Dull grade 6-6-I. Ran bit #19 (8-3/4" Smith F2 - SN 191TD). Bit has drld. 64' in 9-3/4 hrs. Carrying 1 unit bgg. Drlg. wt 30,000#; RPM 80.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

11/21/78 56 days - Drlg. in Stump @ 8375'. Drld. 151' in 22 hrs. MW 8.9; vis 48; WL 9.5; pH 10.0. Survey: 2¼° @ 8375'. Bit #19 has drld. 215' in 31-3/4 hrs. Drlg. wt 30,000#; RPM 80.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

11/22/78 57 days - Drlg. in Preuss @ 8553'. Drld. 178' in 22¼ hrs. MW 9.0; vis 44; WL 9.6; pH 10.0. Survey: 2½° @ 8470'. Bit #19 has drld. 393' in 54 hrs. Preuss sample top: 8326'. Drlg. wt 30,000#; RPM 80.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

11/23/78 58 days - Drlg. in sh @ 8643'. Drld. 90' in 17 hrs. MW 9.1; vis 45; WL 9.2; pH 10.5. Survey: 2-3/4° @ 8565'. Pulled bit #19 @ 8587'. Bit drld. 427' in 60-1/2 hrs. Dull grade 8-6-1/8". Ran bit #20 (8-3/4" Hughes J33 - SN LN819). Bit has drld. 56' in 10-1/2 hrs. Carrying 1 unit bgg. Had drlg. break 8617-30'--n.s. Drlg. wt 32,000#; RPM 54.

11/24 59 days - Drlg. in Stump @ 8802'. Drld. 159' in 22-1/2 hrs. MW 9.1; vis 48; WL 8.8; pH 10.5. Survey: 3° @ 8757'. Bit #20 has drld. 215' in 33 hrs. Drlg. wt 28,000#; RPM 54.

JUDD #34-2 (cont.)
Summit Co., Utah

11/25/78 60 days - Drlg. in Preuss @ 8912'. Drld. 110' in 17-1/2 hrs. MW 9.0; vis 41; WL 9.0; pH 10.0. Survey: 2-3/4° @ 8821'. Pulled bit #20 @ 8821'. Bit drld. 234' in 37-1/4 hrs. Dull grade 8-2-1/16". Ran bit #21 (8-3/4" Smith F3 - SN 757RZ). Bit has drld. 91' in 13-1/4 hrs. New sample tops: Stump 8641'; Preuss 8830'. Drlg. wt 28,000#; RPM 54.

11/26 61 days - Drlg. in Preuss @ 9039'. Drld. 127' in 21-3/4 hrs. MW 9.0; vis 44; WL 9.2; pH 10.0. Survey: 3-1/4° @ 9034'. Bit #21 has drld. 218' in 35-1/2 hrs. Drlg. wt 28,000#; RPM 54.

JUDD #34-2 (11,800' TC-Nugg-dev) Summit Co.,Utah Chlk Crk Prosp.	11/27/78 62 days - Drlg. in Preuss @ 9152'. Drld. 113' in 23 hrs. MW 9.0; vis 45; WL 9.6; pH 9.5. Survey: 3° @ 9072'. Bit #21 has drld. 331' in 58½ hrs. Drlg. wt 28,000#; RPM 52.
JUDD #34-2 (11,800' TC-Nugg-dev) Summit Co.,Utah Chlk Crk Prosp.	11/28/78 63 days - Reaming to bottom w/bit #22 @ 9223'. Drld. 71' of Preuss in 13-3/4 hrs. MW 9.0; vis 45; WL 9.0; pH 10.0. Survey: 3½° @ 9198'. Pulled bit #21 @ 9223'. Bit drld. 402' in 72¼ hrs. Dull grade 4-8-¼". Ran bit #22 (8-3/4" Hughes J33 - SN LM820). Now washing to bottom @ 9223'.
JUDD #34-2 (11,800' TC-Nugg-dev) Summit Co.,Utah Chlk Crk Prosp.	11/29/78 64 days - Drlg. in Preuss @ 9323'. Drld. 100' in 20¼ hrs. MW 9.0; vis 42; WL 9.2; pH 10.0. Survey: 3° @ 9292'. Fin. washing to bottom w/bit #22. Bit has drld. 100' in 20¼ hrs. Drlg.wt 28,000#; RPM 64.
JUDD #34-2 (11,800' TC-Nugg-dev) Summit Co.,Utah Chlk Crk Prosp.	11/30/78 65 days - Drlg. in Preuss sh @ 9396'. Drld. 73' in 15½ hrs. MW 8.9; vis 44; WL 10.0; pH 10.6. Survey: 3½° @ 9386'. Bit #22 has drld. 173' in 35-3/4 hrs. Lost pump pressure. POH. Found cracked box on DC. TIH. Drlg. wt 28,000#; RPM 64.

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER (Drilling)

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: American Quasar Petroleum Co.

8. FARM OR LEASE NAME: Judd

3. ADDRESS OF OPERATOR: 204 Superior Bldg., Casper, Wyoming 82601

9. WELL NO.: 34-2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1979.1' FNL & 2163.2' FWL

10. FIELD AND POOL, OR WILDCAT: Lodgepole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 34-2N-6E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7666' GR

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			☒
(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 is a Monthly Report of Operations for period 12/1-31/78 (see attached chronological report).

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

SIGNED John F. Sindelar — TITLE Division Drlg. Supt. — DATE 1/10/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

12/1/78 66 days - Drlg in Preuss sh @ 9462'. Drld 66' in 15½ hrs. MW 8.9, vis 42, WL 9.2, pH 10.0. Pulled bit #22 @ 9457'. Bit drld 234' in 59½ hrs. Dull grade 6-6-1/8. Ran bit #23 (8 3/4" Smith F3 - SN 898PE) @ 9457'. Bit has drld 5' in 2 hrs. Drlg wt-28,000; RPM-64.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co.,Utah
Chlk Crk Prosp.

12/2/78 67 days - TD 9494'. Drld. 32' of Preuss in 6 hrs. Magnafluxing DC's. MW 9.0; vis 40; WL 9.2; pH 10.0. Survey: 3½° @ 9480'. Bit #23 has drld. 37' in 7 hrs. Lost pump pressure while drlg. @ 9494'. POH. Found cracked DC. Now magnafluxing BHA.

12/3 68 days - Drlg. in Preuss @ 9587'. Drld. 93' in 17-3/4 hrs. MW 8.9; vis 48; WL 9.6; pH 10.5. Survey: 3-3/4° @ 9574'. Bit #23 has drld. 130' in 24-3/4 hrs. Drlg. wt 28,000#; RPM 64.

12/4 69 days - Drlg. in Preuss @ 9707'. Drld. 120' in 23½ hrs. MW 8.9; vis 45; WL 9.8; pH 9.5. Bit #23 has drld. 250' in 48¼ hrs. Drlg. wt 28,000#; RPM 66.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co.,Utah
Chlk Crk Prosp.

12/5/78 70 days - Drlg. in Preuss @ 9785'. Drld. 78' in 15½ hrs. MW 8.8; vis 40; WL 9.8; pH 10.0. Pulled bit #23 @ 9719'. Bit drld. 262' in 51-3/4 hrs. Dull grade 7-6-¼". Ran bit #24 (8-3/4" Smith F4 - SN 153RN). Bit has drld. 66' in 12 hrs. Drlg. wt 28,000#; RPM 66.

JUDD #34-2 12/6/78 71 days - TD 9828'. Drld. 43' of Preuss in 9½ hrs.
(11,800' TC-Nugg-dev) Attempting to engage fish w/8-1/8" overshot. MW 8.8; vis 48;
Summit Co.,Utah WL 9.8; pH 10.0. Bit #24 has drld. 109' in 21½ hrs.
Chlk Crk Prosp. Twisted off while drlg. @ 9828'. Top of fish: 9606'.
TIH w/Bowen 8-1/8" overshot dressed w/6-3/4" grapples.
Engaged fish. Attempted to work fish loose. Overshot slipped off fish. Now POH to redress overshot.

JUDD #34-2 12/7/78 72 days - TD 9828'. TIH w/bit #25 @ 2000'.
(11,800' TC-Nugg-dev) MW 8.8; vis 38; WL 10.5; pH 10.0. Redressed overshot.
Summit Co.,Utah TIH. Engaged fish. Jarred loose. POH. LD fish &
Chlk Crk Prosp. fishing tools. PU BHA & DC's. Now running bit #25
(8-3/4" Smith F4 - SN 685TK). While TIH @ 2000',
ran out of wtr for rig. Have 5 wtr trucks froze up attempting to get wtr to rig.
Shut down WO wtr.

JUDD #34-2 12/8/78 73 days - Drlg. in Preuss @ 9894'. Drld. 66'
(11,800' TC-Nugg-dev) in 14-3/4 hrs. MW 8.8; vis 35; WL 9.2; pH 9.5.
Summit Co.,Utah Got wtr to rig. Fin. TIH w/bit #25 @ 9828'. Bit has
Chlk Crk Prosp. drlg. 66' in 14-3/4 hrs. Drlg.wt 28,000#; RPM 66 (Temp -28°)

JUD 4-2 12/9/78 74 days - TD 9938'. Drld. 44' in 9 hrs. Repairing
(11 TC-Nugg-dev) rotary clutch. MW 8.9; vis 42; WL 9.6; pH 8.9. Bit #25
Su o.,Utah has drld. 110' in 23-3/4 hrs. POH. LD BHA & collars.
Ch Prosp. PU rental string of DC's & new BHA. TIH. Now repairing
rig @ 9938'.
12/10 75 days - Drlg. in Preuss @ 10,000'. Drld. 62'
in s. MW 8.9; vis 47; WL 9.8; pH 9.5. Survey: 3° @ 9920'. Bit #25 has
dr 72' in 34 hrs. Replaced rotary clutch. Fin. TIH. Drlg. wt 28,000#; RPM 62.
12/11 76 days - Drlg. in Preuss @ 10,119'. Drld. 119'
in hrs. MW 9.3; vis 70; WL 16.0; pH 18.5. Bit #25 has drld. 291' in 57½ hrs.
Mi g salt, breaking system over to salt-saturated prior to topping salt.
D wt 30,000#; RPM 62.

D #34-2 12/12/78 77 days - Circ. & mixing salt @ 10,171'.
,800' TC-Nugg-dev) Drld. 52' in 7½ hrs. MW 9.6; vis 56; WL 18.0; pH 8.5.
mmit Co.,Utah Bit #25 has drld. 243' in 65 hrs. Salt sample top: 10,156'.
hlk Crk Prosp. Drld. to 10,171'. Hit tight hole. Worked out of salt.
Stuck string @ 10,156'. Jarred loose. Now mixing salt;
will saturate system.

JUDD #34-2 12/13/78 78 days - Drlg. in Preuss @ 10,194'. Drld. 23'
(11,800' TC-Nugg-dev) in 8 hrs. MW 10.1; vis 46; WL 16.0; pH 8.5. Mixed salt;
Summit Co.,Utah raised chloride content to 150,000 ppm. Attempted to drill
Chlk Crk Prosp. salt section; encountered extremely hazardous hole cond's.
Raised chl. content to 180,000 ppm. Drld. salt w/o problems;
hole in good cond. Bit #25 has drld. 366' in 73 hrs. Drlg. wt 34,000#; RPM 62.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/14/78 79 days - Drlg. in Preuss @ 10,354'. Drld. 60' in 15 hrs. MW 10.2; vis 46; WL 11.8; pH 8.5; salt 180,000 ppm Pulled bit #25 @ 10,208'. Bit drld. 380' in 77½ hrs. Dull grade 4-2-1/16". Ran bit #26 (8-3/4" Hughes J33 - SN LM834). Bit has drld. 46' in 10½ hrs. Drlg. wt 34,000#; RPM 66.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/15/78 80 days - Drlg. in Twin Crk ls @ 10,371'. Drld. 117' in 23½ hrs. (Correction to 12/14/78 report: Should have said: Drlg. @ 10,254'.) MW 10.2; vis 48; WL 8.4; pH 8.5. Bit #26 has drld. 163' in 34 hrs. Twin Crk sample top: 10,310'. Drlg.wt 25,000#; RPM 60.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/16/78 81 days - Drlg. in Twin Crk ls @ 10,461'. Drld. 90' in 22-3/4 hrs. MW 10.3; vis 46; WL 6.8; pH 8.5. Survey: 3° @ 10,389'. Bit #26 has drld. 253' in 56-3/4 hrs. Drlg. wt 32,000#; RPM 56.

12/17 82 days - POH w/bit #26 @ 10,565'. Drld. 104' of Twin Crk ls in 23¼ hrs. MW 10.2; vis 44; WL 6.8; pH 9.5. Now pulling bit #26 @ 10,565'. Bit drld. 357' in 80 hrs.

12/18 83 days - Drlg. in very soft Twin Crk ls @ 10,607'. Drld. 42' in 14¼ hrs. MW 10.2; vis 42; WL 8.0; pH 8.5. Survey: 5¼° @ 10,578'. Fin. pulling bit #26 @ 10,565'. Dull grade 6-4-1/8". Ran bit #27 (8-3/4" Hughes J33 - SN MH074). Bit has drld. 42' in 14¼ hrs. Drlg. wt 28,000#; RPM 66.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/19/78 84 days - Drlg. in Twin Crk ls @ 10,664'. Drld. 57' in 23-3/4 hrs. MW 10.3; vis 43; WL 8.2; pH 8.5. Bit #27 has drld. 99' in 38 hrs. Drlg. wt 30,000#; RPM 70.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/20/78 85 days - Tripping out w/bit #28 @ 10,703'. Drld. 39' of Twin Crk in 13½ hrs. MW 10.3; vis 45; WL 8.3; pH 8.5. Pulled bit #27 @ 10,664'. Bit drld. 99' in 38 hrs. Dull grade 2-2-I. Ran bit #28 (8-3/4" Hughes OSC1GJ - SN DP723). Now pulling bit #28 @ 10,703'. Bit drld. 39' in 13½ hrs. Leeds sample top: 10,645'.

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

12/21/78 86 days - TD 10,703'. Mixing LCM. MW 10.0, vis 42, WL 14.0, pH 8.5. Pulled bit #28 @ 10,703'. Bit drld 39' in 13½ hrs. Dull grade 4-8-I. Ran bit #29 (8 3/4" Smith F2 - SN 7[illegible]). TIH to 6900'; attempted to break circ; lost circ; lost 1000 bbls mud in last 24 hrs. Have spotted LCM pills @ 10,300', 6500' & 2800'. Now mixing mud; prep to spot pill @ 2000'. CORRECTED KB: 7387'.

JUDD #34-2
(11,800' TC-N-dev)
Summit Co., Utah
Chlk Crk Prosp

12/22/78 87 days - Drlg Twin Creek ls @ 10,711'. Drld 8' in 1½ hrs. MW 9.[illegible], vis [illegible], WL 8.0, pH 8.0. Fin TIH w/bit #29 @ 10,703'. Bit has drld [illegible] in 1½ hrs. Broke circ @ 2800'. Spotted 12 bbl pronto plug from 2800'-2650'. TIH. Broke circ every 11 stds. Reamed bridge @ 8400'. Washed & reamed 10,100-10,703'. Now drlg w/full returns. Drlg wt-26,000#; RPM-60.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/23/78 88 days - Drlg. in Twin Crk (Leeds sec) @ 10,800'. Drld. 89' in 22-1/4 hrs. MW 9.7; vis 42; WL 8.0; pH 8.5. Survey: 6-3/4° @ 10,736'. Bit #29 has drld. 97' in 23-3/4 hrs. Drlg. wt 25,000#; RPM 62.

12/24 89 days - Drlg. in Walton Canyon @ 10,905'. Drld. 105' in 23 hrs. MW 9.7; vis 42; WL 7.5; pH 8.5. Survey: 6-1/2° @ 10,768'. Bit #29 has drld. 202' in 46-3/4 hrs. Walton Canyon sample top: 10,842'. Drlg. wt 25,000#; RPM 62.

12/25 90 days - TD 10,992' (Twin Crk). Drld. 87' in 13-3/4 hrs. WO fishing tools. MW 9.7; vis 47; WL 7.8; pH 8.5. Surveys: 5-3/4° @ 10,894'; 4-1/4° @ 10,992'. Pulled bit #29 @ 10,992'. Bit drld. 289' in 60-1/2 hrs. One shank gone. Now WO fishing tools.

12/26 91 days - Drlg. in Twin Crk @ 10,995'. Drld. 3' in 1/2 hr. MW 9.5; vis 45; WL 7.5; pH 8.5. Ran 8" OD Bowen magnet w/junk sub. Washed 600' to bottom. Rec. shank, cone & 6 buttons. Ran bit #RR27 (8-3/4" Hughes J33 - SN MH074) @ 10,992'. Bit has drld. 3' in 1/2 hr. Drlg. wt 30,000#; RPM 60.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/27/78 92 days - Drlg. in Twin Crk ls @ 11,075'. Drld. 80' in 24 hrs. MW 9.7; vis 44; WL 7.0; pH 8.5. Bit #RR27 has drld. 83' in 24½ hrs. Drlg. wt 30,000#; RPM 62.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/28/78 93 days - Drlg. in Twin Crk @ 11,157'. Drld. 82' in 22½ hrs. MW 9.7; vis 47; WL 7.0; pH 8.5. Survey: 4° @ 11,084'. Bit #RR27 has drld. 165' in 47 hrs. Bndry Ridge sample top: 10,982'; Rich: 11,053'. Drlg. wt 30,000#; RPM 60.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/29/78 94 days - POH w/bit #27 @ 11,240'. Drld. 83' of Twin Crk ls in 22¼ hrs. MW 9.5; vis 55; WL 7.2; pH 8.5. Had 7-unit bgg increase 11,223-26'. Now pulling bit #RR27 @ 11,240'. Bit drld. 248' in 69¼ hrs.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

12/30/78 95 days - Drlg. in Twin Crk ls @ 11,288'. Drld. 48' in 12¼ hrs. MW 9.4; vis 44; WL 7.8; pH 8.5. Survey: 4° @ 11,210'. Fin. pulling bit #RR27 @ 11,240'. Dull grade 5-4-1/8". Ran bit #30 (8-3/4" Hughes J33 - SN PE699). Bit has drld. 48' in 12¼ hrs. Drlg. wt 32,000#; RPM 60.

12/31 96 days - Drlg. in Twin Crk ls @ 11,376'. Drld. 88' in 23 hrs. MW 9.4; vis 46; WL 7.6; pH 8.5. Bit #30 has drld. 136' in 35¼ hrs. Slide Rock sample top: 11,315'. Drlg. wt 32,000#; RPM 60.

Form 5GC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER (Completion)

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: American Quasar Petroleum Co.

8. FARM OR LEASE NAME: Judd

3. ADDRESS OF OPERATOR: 204 Superior Bldg., Casper, Wyoming 82601

9. WELL NO.: 34-2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1979.1' FNL & 2163.2' FWL

10. FIELD AND POOL, OR WILDCAT: Lodgepole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 34-2N-6E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7666' GR

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			☒
(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 is a Monthly Report of Operations for period 1/1-9/79 (see attached chronological report).

Well now being completed.

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

SIGNED John F. Sindelar — TITLE Division Drlg. Supt. — DATE 1/31/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

6

*See Instructions on Reverse Side

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

1/9/79 105 days - TD 11,817'. RDRT. Opened DV tool @ 6:45 AM. Circ. w/drlg. mud 6 hrs. Displaced mud w/750 bbls. 2% KCl wtr w/6 gals Adamol per 100 bbl. Ran 2nd stage of cmt job as follows: 1086 sx Class G, 10% salt, 3/4 of 1% CFR_2, ¼#/sk flocele & 2% HR_5 followed by 1060 sx salt-saturated Class G, 3/4 of 1% CFR_2 & ¼#/sk flocele. Had good returns thruout job. Displaced cmt w/267 bbls. wtr. Bumped plug w/3000 psi. Closed sleeve. Float held. PD @ 5:00 PM 1/8/79; set slips @ 7:00 PM. Rig released @ 6:00 AM 1/9/79. Now RDRT. (DROP FROM REPORT.)

1/1/79 97 days - Drlg. in Twin Crk ls @ 11,480'. Drld. 104' in 23¼ hrs. MW 9.5; vis 46; WL 10.0; pH 8.5. Bit #30 has drld. 240' in 58½ hrs. Carrying 1-3 units bgg. Drlg. wt 32,000#; RPM 60.

1/2 98 days - Drlg. in Twin Crk ls @ 11,572'. Drld. 92' in 23¼ hrs. MW 9.5; vis 57; WL 10.0; pH 8.5. Bit #30 has drld. 332' in 61-3/4 hrs. Drlg. wt 32,000#; RPM 62.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

1/3/79 99 days - Tripping out w/bit #30 @ 11,700'. Drld. 128' of Twin Crk ls in 22 hrs. MW 9.5; vis 50; WL 9.8; pH 8.5. Now POH w/bit #30 @ 11,700'. Bit drld. 460' in 103-3/4 hrs. Had 4-unit bgg increase @ 11,596'.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

1/4/79 100 days - Tripping for bit @ 11,763'. Drld. 63' in 8¼ hrs. MW 9.2; vis 49; WL 9.8; pH 7.9. Fin. pulling bit #30 @ 11,700'. Dull grade 8-4-1/16". Ran bit #31 (8-3/4" Hughes J33 - SN PK191). Bit has drld. 63' in 8¼ hrs. Lost ret's @ 11,763'--approx. 300 bbls. Regained ret's before starting trip. Nugget sample top: 11,717'. Carrying 1 unit bgg. Now pulling bit #31 @ 11,763'.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

1/5/79 101 days - Circ. for logs @ 11,817'. Drld. 54' of Nugget ss in 13 hrs. MW 9.2; vis 71; WL 9.4; pH 7.5. Fin. pulling bit #31 @ 11,763'. Bit drld. 63' in 8¼ hrs. Dull grade 5-5-¼". Ran bit #32 (8-3/4" Hughes J55R - SN NP339). Bit has drld. 54' in 13 hrs. Had 24 units trip gas; carrying 4 units bgg. Now circ. for logs.

JUDD #34-2
(11,800' TC-Nugg-dev)
Summit Co., Utah
Chlk Crk Prosp.

1/6/79 102 days - TD 11,817'. Logging w/Schlumberger. MW 9.2; vis 61; WL 8.8; pH 8.5. Pulled bit #32 @ 11,817'. Bit drld. 54' in 13 hrs. Dull grade 4-2-I. Schl. TD: 11,817'. Ran Dipmeter 11,815-2018'; BHC-Sonic 11,814-2018'. Now running Neutron Density.

1/7 103 days - TD 11,817'. LD DP. MW 9.2; vis 62; WL 9.6; pH 8.5. Ran Neutron Density Log 11,814-10,000'; DLL 11,803-2018'. TIH. Circ. & cond. hole, prep to run csg. Now LD DP.

Elec. log tops: Echo 1405; Current Crk 2623; Frontier 2814; Aspen 4677; Kelvin 5072; Stump 7868; Preuss 8808; Salt top 10,150; Twin Crk 10,208; Leeds 10,680; Walton Canyon 11,008; Bndry Rdge 11,253; Rich 11,304; Slide Rock 11,570; Gyp Sprgs 11,652; Nugget ss 11,700.

1/8 104 days - TD 11,817'. Cementing long string. MW 9.2; vis 64; WL 10.0; pH 9.5. Ran 5½" csg. as follows:

40 jts 20# N-80 8-rd LT&C Rge 3	1683.53'
1 jt 20# S-95 8-rd	39.82'
26 jts 20# S-95 8-rd	1024.35'
187 jts 17# N-80 8-rd	7867.25'
29 jts 17# CS-95 8-rd	1207.50'
Total:	11822.45'
Ran differential fillup shoe, collar & DV tool - total:	11,829.75'

Landed @ 11,817' KB. Float collar @ 11,771'; DV tool @ 11,598'. Cemented 1st stage as follows: Ran 500 gals mud flush followed by 210 sx Class G, 10% salt, ¼#/sk flocele & .2 of 1% HR5. Displaced w/271 bbls. drlg. mud. PD 5:30 AM 1/8/79. Bumped plug w/2000 psi. Float held. Now WO DV bomb to seat.

FILE IN QUADRUPLICATE
FORM OGC-8-X

RECEIVED
JAN 12 1979
GAS, & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: JUDD No. 34-2

Operator: American Quasar Petroleum Company Address: Casper, Wyoming

Contractor: True Drilling Co. Address: Casper, Wyoming

Location SE 1/4 NW 1/4; Sec. 34 T. 2 N, X R. 6 E, X Summit County

Water Sands:

	Depth: From-	Depth: To-	Volume: Drill Pipe Recovery Flow Rate or Head	Quality: Fresh or Salty
1.	4443	4522	1481 Feet of muddy water and water	Sample Chamber Cl-PPM 1100-1300
2.	7551	7577	4420 Feet of muddy water and water	Sample Chamber Cl-PPM 10500
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops:

Echo Canyon	697	Frontier	2814	Twin Creek	10208
Wanship	1405	Aspen	4677	Nugget	11700
Current Creek	2623	Kelvin	5072		
		Stump	7868		
		Preuss	8808		
		Salt Top	10150		

Remarks:

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

FILE IN QUADRUPLICATE
FORM OGC-8-X

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: JUDD No. 34-2

Operator: American Quasar Petroleum Company Address: Casper, Wyoming

Contractor: True Drilling Co, Address: Casper, Wyoming

Location SE 1/4 NW 1/4; Sec. 34 T. 2 N, X R. 6 E; X Summit County

Water Sands:

	Depth: From-	Depth: To-	Volume: Drill Pipe Recovery Flow Rate or Head	Quality: Fresh or Salty
1.	4443	4522	1481 Feet of muddy water and water	Sample Chamber Cl-PPM 1100-1300
2.	7551	7577	4420 Feet of muddy water and water	Sample Chamber Cl-PPM 10500
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops:

Echo Canyon	697	Frontier	2814	Twin Creek	10208
Wanship	1405	Aspen	4677	Nugget	11700
Current Creek	2623	Kelvin	5072		
		Stump	7868		
		Preuss	8808		
		Salt Top	10150		

Remarks:

NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
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FILE IN QUADRUPLICATE
FORM OGC-8-X

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: JUDD No. 34-2

Operator: American Quasar Petroleum Company Address: Casper, Wyoming

Contractor: True Drilling Co. Address: Casper, Wyoming

Location SE 1/4 NW 1/4; Sec. 34 T. 2 N, X R. 6 E; X Summit County.

Water Sands:

	Depth: From-	Depth: To-	Volume: Drill Pipe Recovery Flow Rate or Head	Quality: Fresh or Salty
1.	4443	4522	1481 Feet of muddy water and water	Sample Chamber Cl-PPM 1100-1300
2.	7551	7577	4420 Feet of muddy water and water	Sample Chamber Cl-PPM 10500
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops:

Echo Canyon	697	Frontier	2814	Twin Creek	10208
Wanship	1405	Aspen	4677	Nugget	11700
Current Creek	2623	Kelvin	5072		
		Stump	7868		
		Preuss	8808		
		Salt Top	10150		

Remarks:

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

JUDD 34-2
Summit Co., Utah

5/21/79 - MIRU Evertson Rig #8. Pumped 45 bbls produced wtr down tbg. ND tree. NU BOP. RU to pull tbg. CWI SDON. COST TO DATE $1600

JUDD 34-2
Summit Co, Utah 5/22/79 - SITP 100 psi. Flowed well to pit 30 min, pumped 60 bbls produced wtr down tbg. Released Bakre Model "R" double grip pkr. TOH w/168 jts 8 Rd (LD 83) 167 jts 2 7/8 AB D55 tbg and pkr. TIH w/2 7/8 8 Rd orange peeled perforated mud anchor, quiberson 5½" 8 Rd anchor catcher, 2 7/8 8 Rd seating nipple (2.25" ID) 2 7/8 8 Rd pin x 2 7/8 D55 box xo sub, 167 jts 2 7/8 D55, 2 7/8 D55 pin x 2 7/8 8 Rd pin x-o sub 115 jts 2 7/8 8 Rd 6.5 N80 R2 tbg. ND BOP NU pumping tree. Set anchor at 8518', landed tbg 2/16,000# tension (26" stretch) SWI SDON. COST TO DATE $4,700.

JUDD 34-2
Summit Co., Utah

5/22/79 - TIH w/2½" x 1½" x 18' x 20' x 25' insort pump w/187" stroke 5' plunger btm type cup hold down. 1¼" mud anchor and strainer, 172 3/4" rods, 5 7/8#. Took off pumping tee to install ratican BOP. When removing tee, threads pulled on tee and tbg. TOH w/rods, Dressed threads on tbg enough to get coupling on and installed. TI w/valve. CWI. SDON. COST TO DATE $2,150.

JUDD 34-2
12,000 TC-N
Summit Co., Utah

5/24/79 - PU and run Acme 2 7/8" spear, released anchor. Pulled and LD 1 jt 2 7/8 8 Rd tbg. Pulled 1 jt 2 7/8 8 Rd tbg. TIH, w/pump. 174 3/4" rods, 88 7/8", and 75-1 rods, 1½" x 30' polished rod. Long stroked well. Had good pump action. Spaced pump out 2' off btm. RD and move Evertson Rig #8 to 27-1. FINAL REPORT. COST TO DATE $8,750.

JUDD 34-2
12,000 TC-N
Summit Co., Utah

5/29/79 - Started pumping unit 11 AM 5/26/79 at 9½ SPM. Pumping only wtr w/some gas kicks. To date, we have rec approx 300 bbls wtr, unit has gone down on over speed twice and have not as yet gotten a full 24 hour run.

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

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

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
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E. STEELE McINTYRE

May 7, 1979

American Quasar Petroluem Company
204 Superior Bldg.
Casper, Wyoming 82601

Re: PLEASE SEE ATTACHED SHEET FOR LIST
OF WELLS AND MONTHS DUE-

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY AVILA
RECORDS CLERK

Attachment, Monthly Reports due:

1) Well No. Hogback Ridge 16-1
   Sec. 16, T. 13N, R. 7E,
   Rich County, Utah
   October 1978 thru' March 1979

2) Well No. Bingham 2-5
   Sec. 2, T. 2N, R. 7E
   Summit County, Utah
   December 1978 thru' March 1979

3) Well No. Pineview 3-7S
   Sec. 3, T. 2N, R. 7E,
   Summit County, Utah
   February 1979 thru' March 1979

4) Well No. Clark 4-2
   Sec. 4, T. 2N, R. 7E,
   Summit County, Utah
   October 1978 thru' March 1979

5) Well No. UPRR 11-1
   Sec. 11, T. 2N, R. 7E,
   Summit County, Utah
   WELL COMPLETION DUE

6) Well No. UPRR 17-1
   Sec. 17, T. 2N, R. 7E
   Summit County, Utah
   October 1978 thru' March 1979

7) Well No. UPRR 19-3
   Sec. 19, T. 2N, R. 7E,
   Summit County, Utah
   October 1978 thru' March 1979

8) Well No. Judd 34-2
   Sec. 34, T. 2N, R. 6E
   Summit County, Utah
   February 1979 thru' March 1979

Form OGC-3

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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 [X] GAS WELL [ ] DRY [ ] Other —

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

2. NAME OF OPERATOR: American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR: 707 United Bank Tower, 1700 Broadway Denver, CO 80290

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 654.4' FEL and 659' FSL (SE SE)
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: UPRR
9. WELL NO.: 27-1
10. FIELD AND POOL, OR WILDCAT: Lodgepole-Nugget
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 27, T2N-R6E
12. COUNTY OR PARISH: Summit
13. STATE: Utah

14. PERMIT NO.: 43-043-30093 DATE ISSUED: 11/30/78

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
1/15/79	5/10/79	7/20/79	7816.5	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
12,188'	12,143'	--	→	0-TD	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
12,087-12,135' (Nugget)

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL-GR, FDC-CNL, FIL, Dipmeter

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	--	78'	17½	8 yds Readymix	None
9 5/8"	40#, 36#	2451'	12¼	1250 sx cemt.	None
5½	17#, 20#, 23#	12,188'	8 3/4	1325 sx cemt.	None

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	11,985'	11,985'

31. PERFORATION RECORD (*Interval, size and number*)
12,125-12,135 2 SPF (20 holes)
12,114, 12,109, 12,087, 12,085 (1 shot ea.)
with 4" casing gun

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12,087-12,135	3000 gals. 15% HCl and 30 7/8 RCN ball sealers, flushed with 85 BO.

33.* PRODUCTION

DATE FIRST PRODUCTION: 6/12/79
PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Flowing
WELL STATUS (*Producing or shut-in*): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/20/79	24	12/64"	→	194	78	8	402

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
200	--	→	194	78	8	42.3

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Flaring

TEST WITNESSED BY: Gary Kellogg

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 [signature] TITLE Division Operations Mgr. DATE 7/20/79

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

INSTRUCTIONS

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

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

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

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

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

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #1	6446	6560	No WC, TO 10" w/weak blow remaining weak thruout, SI 60", TO 30" Opened dead, remained dead thruout, SI 60", rec 455' WCM, IHP 3032, IFP 197/197, ISIP 2328, FFP 394/369, FSIP 2340, FHP 2958.
DST #2	11,427	11,645	TO 10" w/very weak blow, increasing to weak blow in 10", ISI 60", TO 65" w/weak blow increasing to fair in 5", to 8# on ¼" choke in 30", to 18# on ¼" choke in 65", GTS 10" into FSI, SI 128", max. flow rate 55.5 MCFD, recovered 1364' gas and OC drlg mud, IHP 5582, IFP 620/952, ISIP 1357, FFP 640/652, FSIP 3123, FHP 5550.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Lower Frontier	3142	
Aspen	4866	
Bear River	5234	
Calvin	5546	
Stump	8856	
Preuss	9226	
Twin Creek	10608	
Nugget	12098	

Form OGC-3

SUBMIT IN DUPLICATE
(See other instructions on reverse side)

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 [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: American Quasar Petroleum Company

3. ADDRESS OF OPERATOR: 707 United Bank Tower 1700 Broadway Denver, CO 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1979.1' FNL, 2163.2' FWL (SE NW)
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Judd
9. WELL NO.: 34-2
10. FIELD AND POOL, OR WILDCAT: Lodgepole-Twin Creek
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 34, T2N-R6E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-043-30081	8/17/78	Summit	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9/26/78	1/5/79	5/26/79	7371	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
11,817'	11,350'	--	→	0-TD	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 11014-11209' (Twin Creek)

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL-GR, BHC, HDT

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48#	48'	17½"	6 yds Ready Mix	None
9 5/8	36#, 40#	2018'	12¼"	1700 sx cemt.	None
5½	20#, 17#	11817'	8 3/4"	2146 sx cemt.	None

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	8518	None

31. PERFORATION RECORD (Interval, size and number): See Attached

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See Attached	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
3/23/79	Pumping 2½ x 1½ x 18' x 20' x 25'	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/24/79	24	--	→	20	6	2	300

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	--	→	20	6	2	40.1

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Used for fuel

TEST WITNESSED BY: Gary Kellogg

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 [signature] TITLE Division Operations Mgr. DATE 8/27/79

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
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Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #1	2620	2694	Tool opened 60" with strong blow, remaining constant throughout flow period, SI 60 min, recovered 941' 8.6# per gal drlg mud. No shows. IHP 1104,IFP 449/464, FISP 702, FHP 1059.
DST #2	4443	4522	Misrun
DST #3	4443	4522	Misrun
DST #4	4443	4525	Frontier, Tool opened 10" with 1" blow increasing to btm of bucket in 8", SI 60", Tool opened 60", off btm of bucket in 8", no gas or fluid to surface, SI 120", recovered 584' muddy wtr, plus 897' wtr. IHP 1995, IFP 123/222, ISIP 1502, FFP 283/616, FSIP 1502, FHP 1921.
DST #5	7551	7577	Tool opened 10" with strong blow, SI 60", Tool opened 60" with strong blow, decreasing to weak blow in 40", SI 120", recovered 4510' fluid, 90' drlg mud, 2420' muddy wtr, 2000' wtr, IHP 3588, IFP 813/1330, ISIP 3007, FFP 1330/1958, FSIP 2798, FHP 3513.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Wasatch	Surface	
Echo	818'	
Frontier	1404	
Aspen	4522	
Bear River	4866	
Kelvin	5196	
Stump	8400	
Preuss	8808	
Twin Creek	10206	
Nugget	11698	

Attachment to Well Completion Report

31. Perforated 11,014, 11,051, 11,062, 11,066, 11,081, 11,083, 11,090, 11,098, 11,132, 11,135, 11,138, 11,141, 11,166, 11,177, 11,181, 11,185, 11,188, 11,192, 11,196, 11,200, 11,203, 11,206, 11,209, (total 23 shots), 1 shot per foot.

Perforated 11,570-11,585, 1 shot per foot, 4" casing gun.

Perforated 11,470, 11,466, 11,463, 11,457, 11,451, 11,435, 11,430, 11,425, 11,420, 11,415, 11,410, 11,395, 11,393, 1 shot per foot, 4" casing gun.

32. Acidized perforations 11,014-11,209 with 10,500 gallons 28% HCl, dropped 35 7/8" ball sealers, flushed with 65 bbls water.

Acidized perforations 11,570-11,585 with 1500 gallons 28% HCl, flushed with 70 bbls water.

Acidized perforations 11,393-11,470 with 6000 gallons 28% HCl, dropped 20 ball sealers, flushed with 67 bbls water.

Frac'd perforations 11,014-11,209 with 11,750 gallons gel with 20,000 gallons pad pumped, 100 mesh sand.

CL1-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR American Quasar Petroleum Co. DATE December 7, 1978 LAB NO. 29426-2
WELL NO. Judd 34-2 LOCATION Sec. 34-2N-6E
FIELD Lodgepole FORMATION KELVIN
COUNTY Summit INTERVAL 7551-7577
STATE Utah SAMPLE FROM DST No.5 (middle)

REMARKS & CONCLUSIONS: Muddy water.

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	4483	195.03	Sulfate	1425	29.64
Potassium	29	0.74	Chloride	5950	167.79
Lithium			Carbonate	-	
Calcium	139	6.94	Bicarbonate	512	8.40
Magnesium	38	3.12	Hydroxide		
Iron	-		Hydrogen sulfide	-	
Total Cations		205.83	Total Anions		205.83

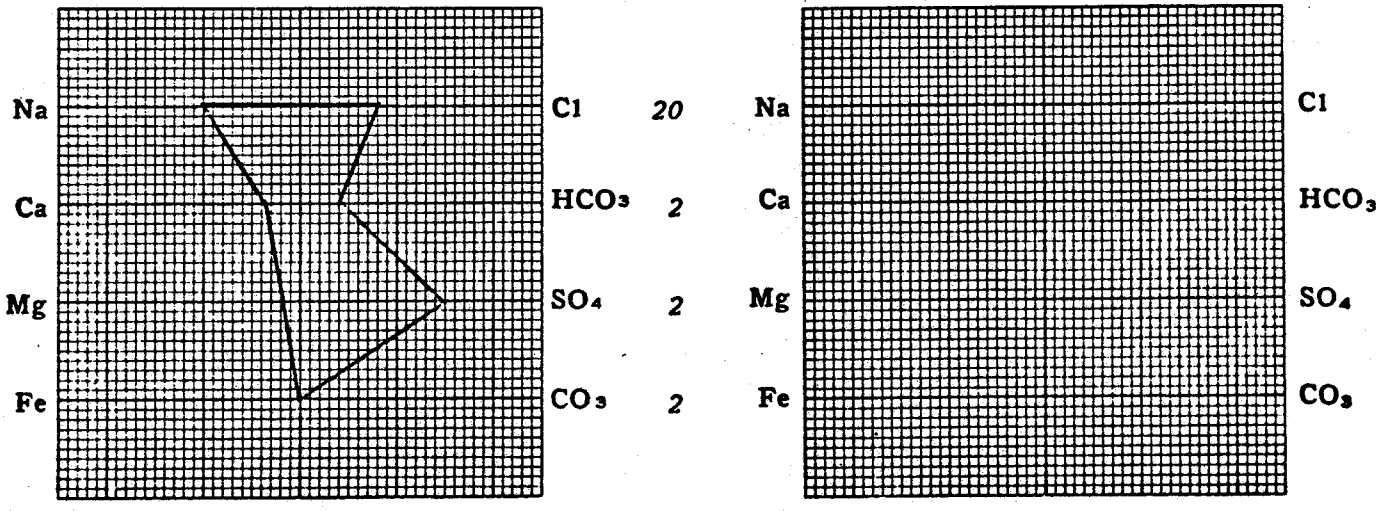
Total dissolved solids, mg/1 - - - - - 12316
NaCl equivalent, mg/1 - - - - - - - - 11521
Observed pH - - - - - - - - - - - - 7.3

Specific resistance @ 68°F.:
Observed - - - - 0.66 ohm-meters
Calculated - - - - 0.57 ohm-meters

WATER ANALYSIS PATTERN

Sample above described

Scale
MEQ per Unit



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

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

OIL, GAS, AND MINING BOARD

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EDWARD T. BECK
E. STEELE McINTYRE

November 13, 1979

American Quasar Petroleum Co.
204 Superior Bldg.
Casper, Wyoming
82601

RE: Please see attached sheet for list of wells and months due.

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Pratice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. Please note, a negative report is also required. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Debbie Beauregard

DEBBIE BEAUREGARD
CLERK-TYPIST

ATTACHMENT, MONTHLY REPORTS DUE.

1) Well no. Judd 34-2
Sec. 34, T. 2N, R. 6E,
Summit county, Utah
June 1979 thru October 1979

2) Well No. Judd 34-3
Sec. 34, t. 2N, R. 6E,
Summit county, Utah
October 1979

3) Well No. Pineview 3-8s
Sec. 3, T. 2N, R. 7E,
Summit county, Utah
Sept. 1979 thru Oct. 1979

Attachment, Monthly Reports due.

Loc. 2. 1) Well No. Hogba Ridge 16-1
Sec. 16, T. 13N, R. 7E,
Rich County, Utah
October 1978 thru' March 1979

2) Well No. Bingham 2-5 — Being Compl.
Sec. 2, T. 2N, R. 7E
Summit County, Utah
December 1978 thru' March 1979

3) Well No. Pineview 3-7S — Being Compl.
Sec. 3, T. 2N, R. 7E,
Summit County, Utah
February 1979 thru' March 1979

Loc. 1. 4) Well No. Clark 4-2
Sec. 4, T. 2N, R. 7E,
Summit County, Utah
October 1978 thru' March 1979

5) Well No. UPRR 11-1 — Oper's suspended 12/6/77 pending re-drill + P+A?
Sec. 11, T. 2N, R. 7E,
Summit County, Utah
WELL COMPLETION DUE

Loc. 3. 6) Well No. UPRR 17-1
Sec. 17, T. 2N, R. 7E
Summit County, Utah
October 1978 thru' March 1979

Loc. 4 7) Well No. UPRR 19-3
Sec. 19, T. 2N, R. 7E,
Summit County, Utah
October 1978 thru' March 1979

8) Well No. Judd 34-2 — Being Compl.
Sec. 34, T. 2N, R. 6E
Summit County, Utah
February 1979 thru' March 1979

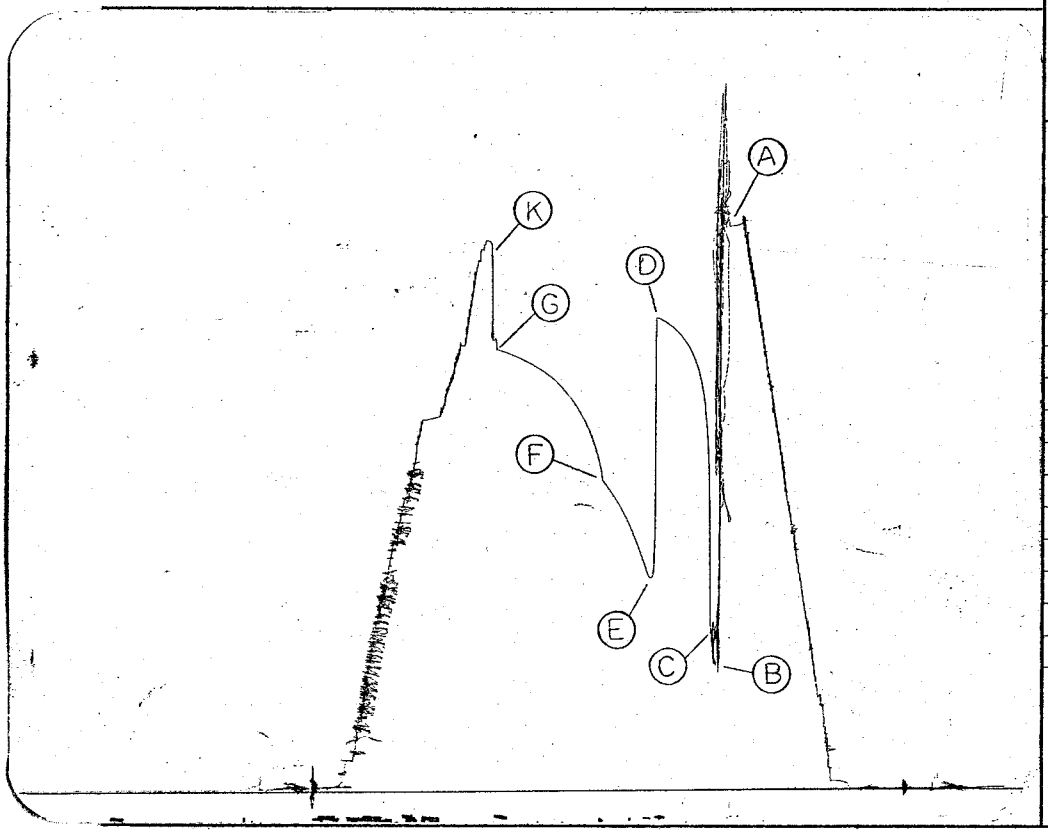
Phone
522-1206 Area 303

LYNES, INC

Box 3600
Sterling, Colo. 80751

Contractor	True Drlg. Co.	Top Choke	1/4"	Flow No. 1	10 Min.
Rig No.	14	Bottom Choke	9/16"	Shut-in No. 1	60 Min.
Spot	SE-NW	Size Hole	8 3/4"	Flow No. 2	60 Min.
Sec.	34	Size Rat Hole	--	Shut-in No. 2	120 Min.
Twp.	2 N	Size & Wt. D. P.	4 1/2" 16.60	Flow No. 3	-- Min.
Rng.	6 E	Size Wt. Pipe	--	Shut-in No. 3	-- Min.
Field	Lodgepole	I. D. of D. C.	2 1/4"		
County	Summit	Length of D. C.	475'		
State	Utah	Total Depth	7577'	Bottom Hole Temp.	124°F
Elevation	7372' "K.B."	Interval Tested	7551-7577'	Mud Weight	8.9
Formation	Kelvin	Type of Test	Bottom Hole Conventional	Gravity	--
				Viscosity	57

Tool opened @ 6:15 AM.



Inside Recorder

PRD Make Kuster AK-1
No. 6737 Cap. 4900 @ 7526'

Press		Corrected
Initial Hydrostatic	A	3580
Final Hydrostatic	K	3464
Initial Flow	B	776
Final Initial Flow	C	991
Initial Shut-in	D	2998
Second Initial Flow	E	1343
Second Final Flow	F	1966
Second Shut-in	G	2801
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.
Our Tester: George Baucom
Witnessed By: Kent Grandbouche

Did Well Flow — Gas No Oil No Water No

RECOVERY IN PIPE: 4510' Total Fluid
90' Drilling fluid = 1.28 bbl.
2420' Muddy water = 34.36 bbl.
2000' Water = 23.99 bbl.

Top Sample - R.W. .12 @ 75°F = 4,500 ppm. chl.
Middle Sample - R.W. .60 @ 65°F = 10,500 ppm. chl.
Bottom Sample - R.W. .60 @ 65°F = 10,500 ppm. chl.

REMARKS:

1st Flow - Tool opened with a 6" underwater blow, increased to bottom of bucket in 1 minute. Blow continued to increase to a 3.0 psig blow at end of flow period.

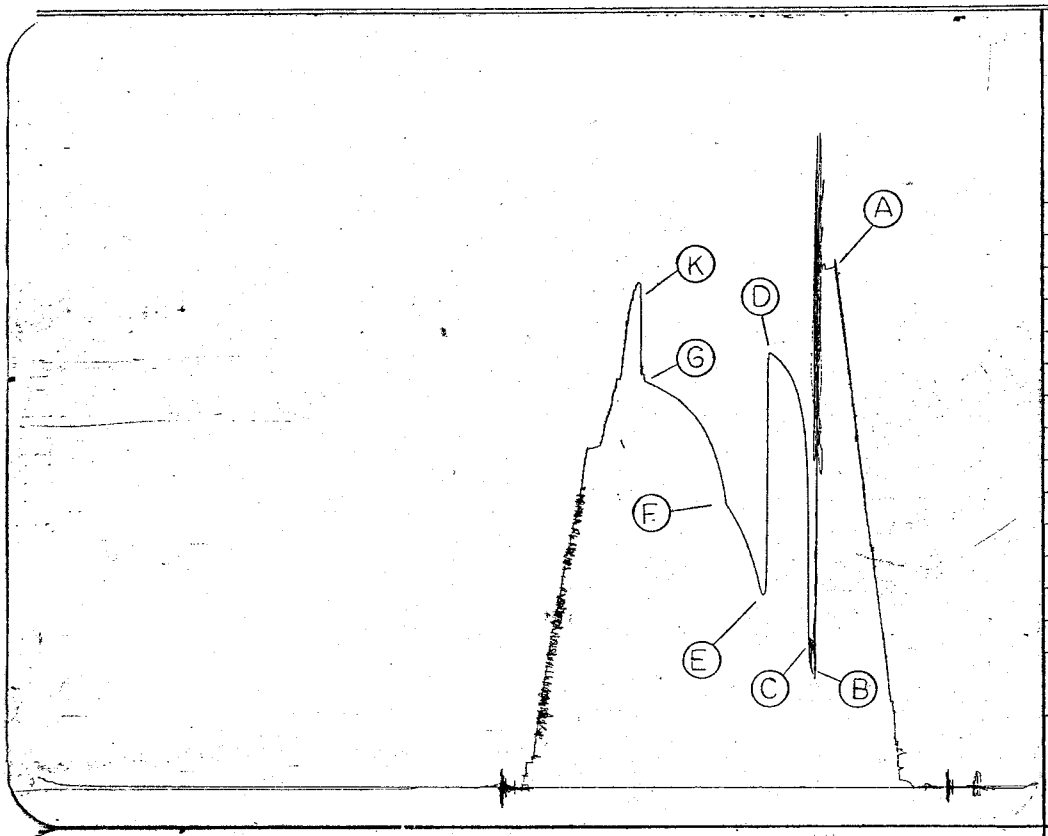
2nd Flow - Tool opened with a 4" underwater blow, increased to bottom of bucket in 1 minute. Blow continued to increase to a 15" underwater blow for 40 minutes then decreased to a 2" underwater blow at end of flow period.

Operator: American Quasar Petroleum Co.
Address: See Distribution
Well Name and No.: Judd #34-2
Ticket No.: 10246
Date: 11-15-78
No. Final Copies: 18
DST No.: 5

Form 1

LYNES, INC.

Operator American Quasar Petroleum Co. Lease & No. Judd #34-2 DST No. 5

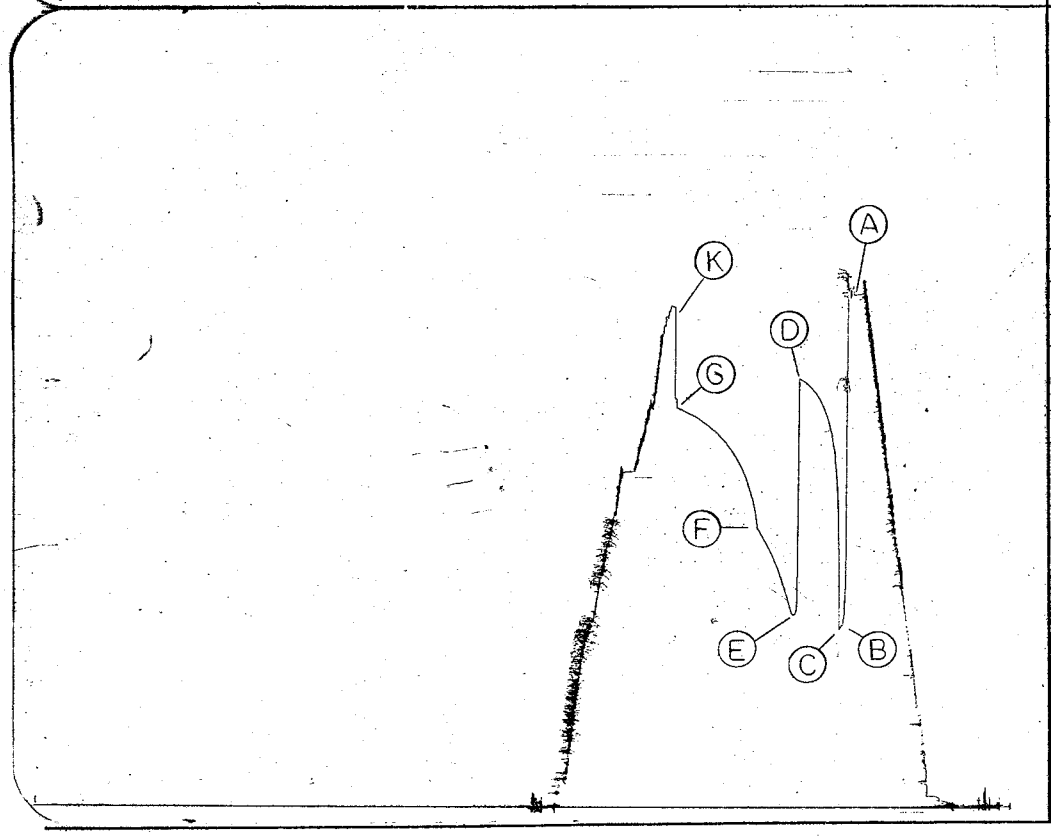


Inside Recorder

PRD Make Kuster AK-1

No. 3604 Cap. 5300 @ 7531'

Press		Corrected
Initial Hydrostatic	A	3581
Final Hydrostatic	K	3467
Initial Flow	B	779
Final Initial Flow	C	995
Initial Shut-in	D	3001
Second Initial Flow	E	1348
Second Final Flow	F	1969
Second Shut-in	G	2805
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
Pressure Below Bottom Packer Bled To		



Outside Recorder

PRD Make Kuster AK-1

No. 2559 Cap. 5400 @ 7567

Press		Corrected
Initial Hydrostatic	A	3600
Final Hydrostatic	K	3483
Initial Flow	B	1261
Final Initial Flow	C	1233
Initial Shut-in	D	3018
Second Initial Flow	E	1337
Second Final Flow	F	1950
Second Shut-in	G	2806
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
Pressure Below Bottom Packer Bled To		

Form 3

REPORT #1394

WELL NAME - JUDD 34-2

WELL OPERATOR - AMERICAN QUASAR PETROLEUM CO.

DST NUMBER - 5

RECORDER NUMBER - 6738

FIRST SHUT IN PRESSURE

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
.0	.0000	991
5.0	3.0000	2437
10.0	2.0000	2608
15.0	1.6667	2709
20.0	1.5000	2776
25.0	1.4000	2825
30.0	1.3333	2867
35.0	1.2857	2901
40.0	1.2500	2929
45.0	1.2222	2949
50.0	1.2000	2970
55.0	1.1818	2985
60.0	1.1667	2998

EXTRAPOLATION OF FIRST SHUT IN = 3156.38

LYNES INC.

REPORT #1394

WELL NAME - JUDD 34-2

WELL OPERATOR - AMERICAN QUASAR PETROLEUM CO.

DST NUMBER - 5

RECORDER NUMBER - 6738

SECOND SHUT IN PRESSURE

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
.0	.0000	1966
10.0	8.0000	2211
20.0	4.5000	2346
30.0	3.3333	2443
40.0	2.7500	2516
50.0	2.4000	2580
60.0	2.1667	2630
70.0	2.0000	2670
80.0	1.8750	2705
90.0	1.7778	2734
100.0	1.7000	2759
110.0	1.6364	2783
120.0	1.5833	2801

FITTED LINE: LOG((TO+PHI)/PHI) = -.00075 PSIG + 2.30559

EXTRAPOLATION OF SECOND SHUT IN = 3066.43 M = 1330.00

LYNES, INC.

Fluid Sample Report

Company: American Quasar Petroleum Co. Date: 11-15-78

Well Name & No.: Judd #34-2 Ticket No.: 10246

County: Summit State: Utah

Test Interval: 7551-7577' DST No.: 5

Total Volume of Sampler: 2100 cc.

Total Volume of Sample: 2100 cc.

Pressure in Sampler: 0 psig

Oil: None cc.

Water: 2100 cc.

Mud: None cc.

Gas: None cu. ft.

Other: None

R.W. .6 @ 65°F = 10,500 ppm. chl.

Resistivity

Make Up Water 11.0 @ 75°F of Chloride Content 500 ppm.

Mud Pit Sample 8.0 @ 50°F of Chloride Content 900 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks:

FORM 5

LYNES, INC.

Distribution of Final Reports

Operator American Quasar Petroleum Co. Well Name and No. Judd #34-2

Original: American Quasar Petroleum Co., 204 Superior Bldg., 201 N. Wolcott, Casper, Wyoming 82601 Attn: John Sindelar

1 copy: American Quasar Petroleum Co., 707 United Bank Tower, 1700 Broadway, Denver, Colorado 80290 Attn: Clare Gregg

3 copies: American Quasar Petroleum Co., 2500 Ft. Worth National Bank Bldg., Ft. Worth, Texas 76102 Attn: Bill Bogert

3 copies: Amoco Production Co., Box 1400 Riverton, Wyoming 82501 Attn: J.R.Jones

3 copies: Amoco Production Co., Security Life Bldg., Denver, Colorado 80202 Attn: E.L. Sampson

2 copies: Energetic, Inc., 333 W. Hampden Ave., Englewood, Colorado 80110 Attn: Clark Kaiser

3 copies: North Central Oil Corp., Box 27491, Houston, Texas 77027 Attn: Charles Tyler

2 copies: Division Of Oil, Gas, & Mining, 1588 West North Temple, Salt Lake City, Utah 84116

Form 6

Phone
522-1206 Area 303

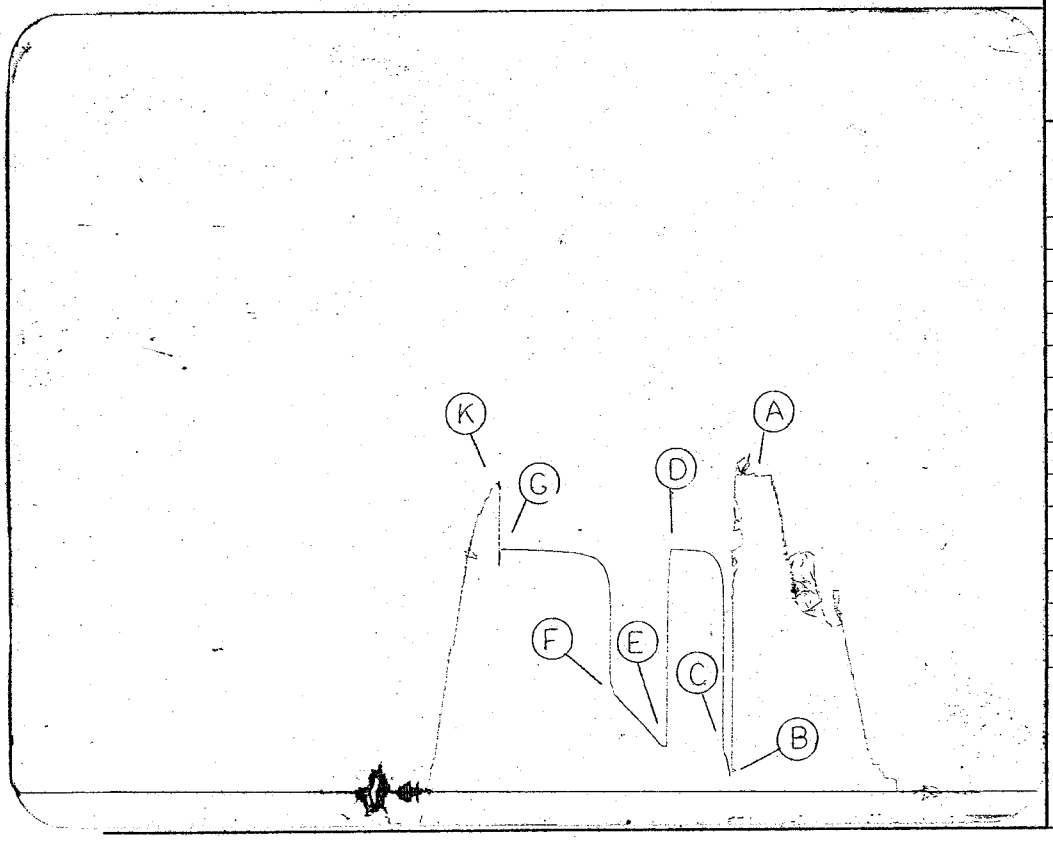
LYNES, INC

Box 712
Sterling, Colo. 80751

Operator: American Quasar Petroleum Co.
Address: See Distribution
Well Name and No.: Judd #34-2
Ticket No.: 10272
Date: 10-26-78
No. Final Copies: 18
DST No.: 4

Contractor	True Drlg. Co.	Top Choke	1/4"	Flow No. 1	10 Min.
Rig No.	14	Bottom Choke	3/4"	Shut-in No. 1	60 Min.
Spot	SE-NW	Size Hole	8 3/4"	Flow No. 2	60 Min.
Sec.	34	Size Rat Hole	--	Shut-in No. 2	120 Min.
Twp.	2 N	Size & Wt. D. P.	4 1/2" 16.60	Flow No. 3	-- Min.
Rng.	6 E	Size Wt. Pipe	--	Shut-in No. 3	-- Min.
Field	Lodgepole	I. D. of D. C.	2 1/4"		
County	Summit	Length of D. C.	446'		
State	Utah	Total Depth	4525'	Bottom Hole Temp.	105°F
Elevation	7372' "K.B."	Interval Tested	4443-4525'	Mud Weight	8.6
Formation	Frontier	Type of Test	Bottom Hole Conventional	Gravity	--
				Viscosity	48

Tool opened @ 2:15 AM.



Inside Recorder

PRD Make Kuster AK-1
No. 6737 Cap. 4900 @ 4423'

Press		Corrected
Initial Hydrostatic	A	1999
Final Hydrostatic	K	1948
Initial Flow	B	106
Final Initial Flow	C	241
Initial Shut-in	D	1536
Second Initial Flow	E	292
Second Final Flow	F	616
Second Shut-in	G	1534
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.
Our Tester: Ron Trumble
Witnessed By: Kent Grandbouche

Did Well Flow — Gas No Oil No Water No

RECOVERY IN PIPE: 1481' Total Fluid
584' Mud & water = 8.29 bbl.
897' Water = 8.59 bbl.
Top Sample - R.W. 3.5 @ 70°F = 1550 ppm. chl.
Middle Sample - R.W. 6.0 @ 70°F = 900 ppm. chl.
Bottom Sample - R.W. 5.0 @ 68°F = 1100 ppm. chl.

REMARKS:

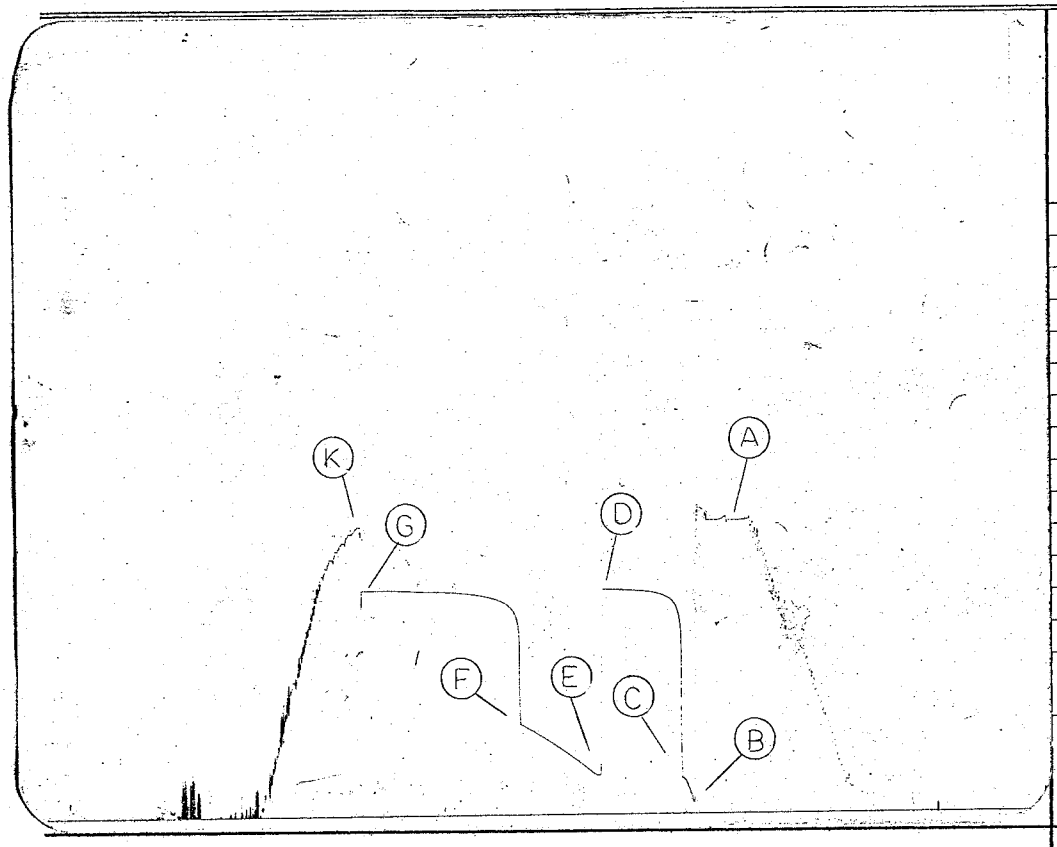
1st Flow - Tool opened with a 1" underwater blow, increased to bottom of bucket in 8 minutes and remained thru flow period.

2nd Flow - Tool opened with a 1" underwater blow, increased to bottom of bucket in 8 minutes and remained thru flow period.

Form 1

LYNES, INC.

Operator American Quasar Petroleum Co Lease & No. Judd #34-2 DST No. 4



Outside Recorder

PRD Make Kuster AK-1

No. 3604 Cap. 5300 @ 4453'

Press		Corrected
Initial Hydrostatic	A	2007
Final Hydrostatic	K	1958
Initial Flow	B	88
Final Initial Flow	C	249
Initial Shut-in	D	1541
Second Initial Flow	E	283
Second Final Flow	F	621
Second Shut-in	G	1540
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
		-
Pressure Below Bottom Packer Bled To		

PRD Make

No. Cap. @

Press		Corrected
Initial Hydrostatic	A	
Final Hydrostatic	K	
Initial Flow	B	
Final Initial Flow	C	
Initial Shut-in	D	
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-in	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	
Pressure Below Bottom Packer Bled To		

Form 3

REPORT #1283

WELL NAME - JUDD 34-2

WELL OPERATOR - AMERICAN QUASAR PETROLEUM CO.

DST NUMBER - 4

RECORDER NUMBER - 6737

FIRST SHUT IN PRESSURE

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
.0	.0000	241
6.0	2.6667	1419
12.0	1.8333	1479
18.0	1.5556	1508
24.0	1.4167	1521
30.0	1.3333	1524
36.0	1.2778	1527
42.0	1.2381	1530
48.0	1.2083	1532
54.0	1.1852	1534
60.0	1.1667	1536

EXTRAPOLATION OF FIRST SHUT IN = 1552.78

REPORT #1283

WELL NAME - JUDD 34-2

WELL OPERATOR - AMERICAN QUASAR PETROLEUM CO.

DST NUMBER - 4

RECORDER NUMBER - 6737

SECOND SHUT IN PRESSURE

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
.0	.0000	616
12.0	6.8333	1429
24.0	3.9167	1485
36.0	2.9444	1505
48.0	2.4583	1515
60.0	2.1667	1521
72.0	1.9722	1525
84.0	1.8333	1528
96.0	1.7292	1531
108.0	1.6481	1533
120.0	1.5833	1534

FITTED LINE: LOG((TO+PHI)/PHI) = -.01130 PSIG + 17.53702

EXTRAPOLATION OF SECOND SHUT IN = 1551.66 M = 88.48

LYNES, INC.

Fluid Sample Report

Company: American Quasar Petroleum Co. Date: 10-26-78

Well Name & No.: Judd #34-2 Ticket No.: 10727

County: Summit State: Utah

Test Interval: 4443-4525' DST No.: 4

Total Volume of Sampler: 2000 cc.

Total Volume of Sample: 1900 cc.

Pressure in Sampler: 8 psig

Oil: None cc.

Water: 1900 cc.

Mud: None cc.

Gas: None cu. ft.

Other: None

R.W. 6.0 @ 60°F = 1100 ppm, chl.

Resistivity

Make Up Water 10.0 @ 55°F of Chloride Content 675 ppm.

Mud Pit Sample 4.5 @ 42°F of Chloride Content 1800 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks:

FORM 5

LYNES, INC.

Distribution of Final Reports

Operator American Quasar Petroleum Co. Well Name and No. Judd #34-2

Original: American Quasar Petroleum Co., 204 Superior Bldg., 201 N. Wolcott, Casper, Wyomi
Wyoming 82601 Attn: John Sindelar

1 copy: American Quasar Petroleum Co., 707 United Bank Tower, 1700 Broadway, Denver,
Colorado 80290 Attn: Clare Gregg

3 copies: American Quasar Petroleum Co., 2500 Ft. Worth National Bank Bldg., Ft. Worth,
Texas 76102 Attn: Bill Bogert

3 copies: Amoco Production Co., Box 1400 Riverton, Wyoming 82501 Attn: J.R.Jones

3 copies: Amoco Production Co., Security Life Bldg., Denver, Colorado 80202
Attn: E.L. Sampson

2 copies: Energetic, Inc., 333 W. Hampden Ave., Englewood, Colorado 80110
Attn: Clark Kaiser

3 copies: North Central Oil Corp., Box 27491, Houston, Texas 77027 Attn: Charles Tyler

2 copies: Division Of Oil, Gas, & Mining, 1588 West North Temple, Salt Lake City, Utah
84116

Form 6

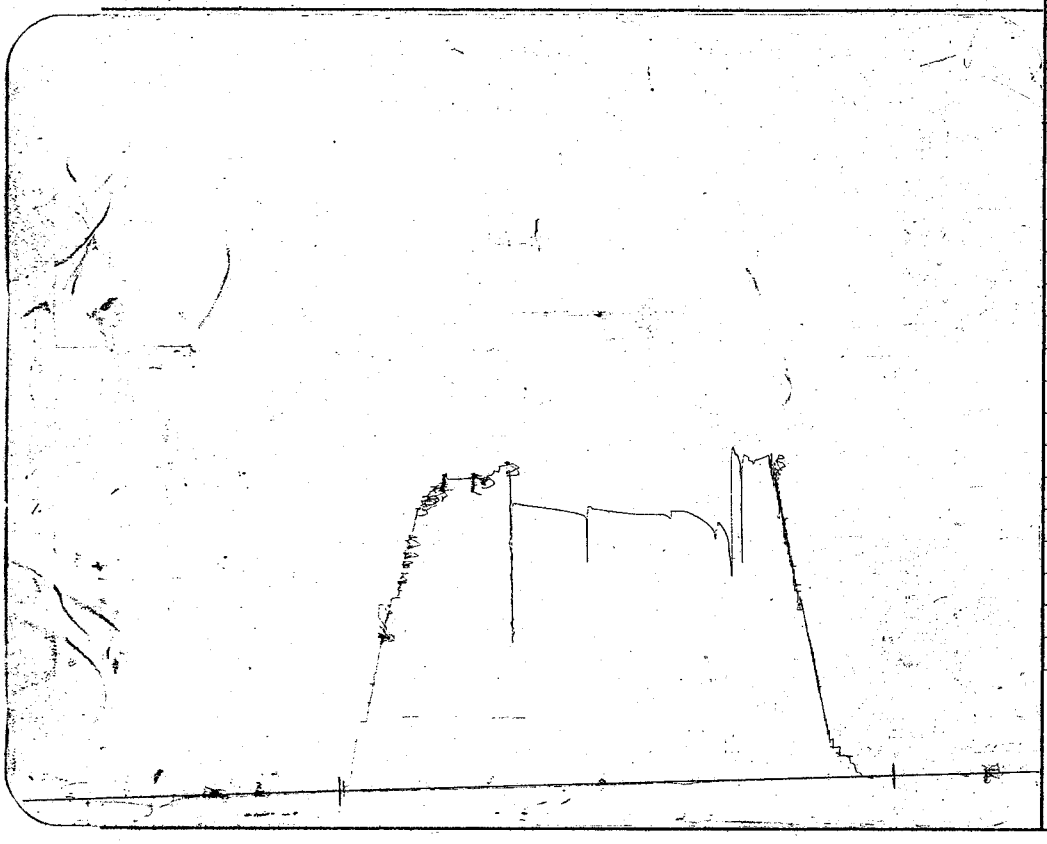
Phone
522-1206 Area 303

LYNES, INC

Box 3600
Sterling, Colo. 80751

Contractor	True Drlg. Co.	Top Choke	1/4"	Flow No. 1	12 Min.
Rig No.	14	Bottom Choke	3/4"	Shut-in No. 1	32 Min.
Spot	SE-NW	Size Hole	8 3/4"	Flow No. 2	60 Min.
Sec.	34	Size Rat Hole	--	Shut-in No. 2	60 Min.
Twp.	2 N	Size & Wt. D. P.	4 1/2" 16.60	Flow No. 3	-- Min.
Rng.	6 E	Size Wt. Pipe	--	Shut-in No. 3	-- Min.
Field	Lodgepole	I. D. of D. C.	2 1/4"		
County	Summit	Length of D. C.	446'		
State	Utah	Total Depth	4522'	Bottom Hole Temp.	100°F
Elevation	7372' "K.B."	Interval Tested	4443-4522'	Mud Weight	8.6
Formation	Frontier	Type of Test	Bottom Hole Conventional	Gravity	--
				Viscosity	45

Tool opened @ 8:33 PM.



Inside Recorder

PRD Make Kuster AK-1
No. 6737 Cap. 4900 @ 4423'

Press		Corrected
Initial Hydrostatic	A	--
Final Hydrostatic	K	--
Initial Flow	B	--
Final Initial Flow	C	--
Initial Shut-in	D	--
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.
Our Tester: Ron Trumble
Witnessed By: Kent Grandbouche

Did Well Flow — Gas No Oil No Water No

RECOVERY IN PIPE:

1st Flow - Tool opened with no blow and remained thru flow period.

2nd Flow - Tool opened with no blow and remained thru flow period.

REMARKS: MISRUN - Chart indicates tool was plugged.

Operator: American Quasar Petroleum Co.
Address: See Distribution
Well Name and No.: Judd #34-2
Ticket No.: 10271
Date: 10-24-78
DST No.: 3
No. Final Copies: 18

Form 1

LYNES, INC.

Fluid Sample Report

Company: American Quasar Petroleum Co. Date: 10-24-78

Well Name & No.: Judd #34-2 Ticket No.: 10271

County: Summit State: Utah

Test Interval: 4443-4522' DST No.: 3

Total Volume of Sampler: 2000 cc.

Total Volume of Sample: 1800 cc.

Pressure in Sampler: 0 psig

Oil: None cc.

Water: None cc.

Mud: 1800 cc.

Gas: None cu. ft.

Other: None

R.W. 4.0 @ 48°F = 1900 ppm. chl.

Resistivity

Make Up Water _____ @ _____ of Chloride Content _____ ppm.

Mud Pit Sample 4.5 @ 40°F of Chloride Content 2000 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks:

FORM 5

LYNES, INC.

Distribution of Final Reports

Operator American Quasar Petroleum Co. Well Name and No. Judd #34-2

Original: American Quasar Petroleum Co., 204 Superior Bldg., 201 N. Wolcott, Casper, Wyomi
Wyoming 82601 Attn: John Sindelar

1 copy: American Quasar Petroleum Co., 707 United Bank Tower, 1700 Broadway, Denver,
Colorado 80290 Attn: Clare Gregg

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Texas 76102 Attn: Bill Bogert

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Attn: Clark Kaiser

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2 copies: Division Of Oil, Gas, & Mining, 1588 West North Temple, Salt Lake City, Utah
84116

Form 6

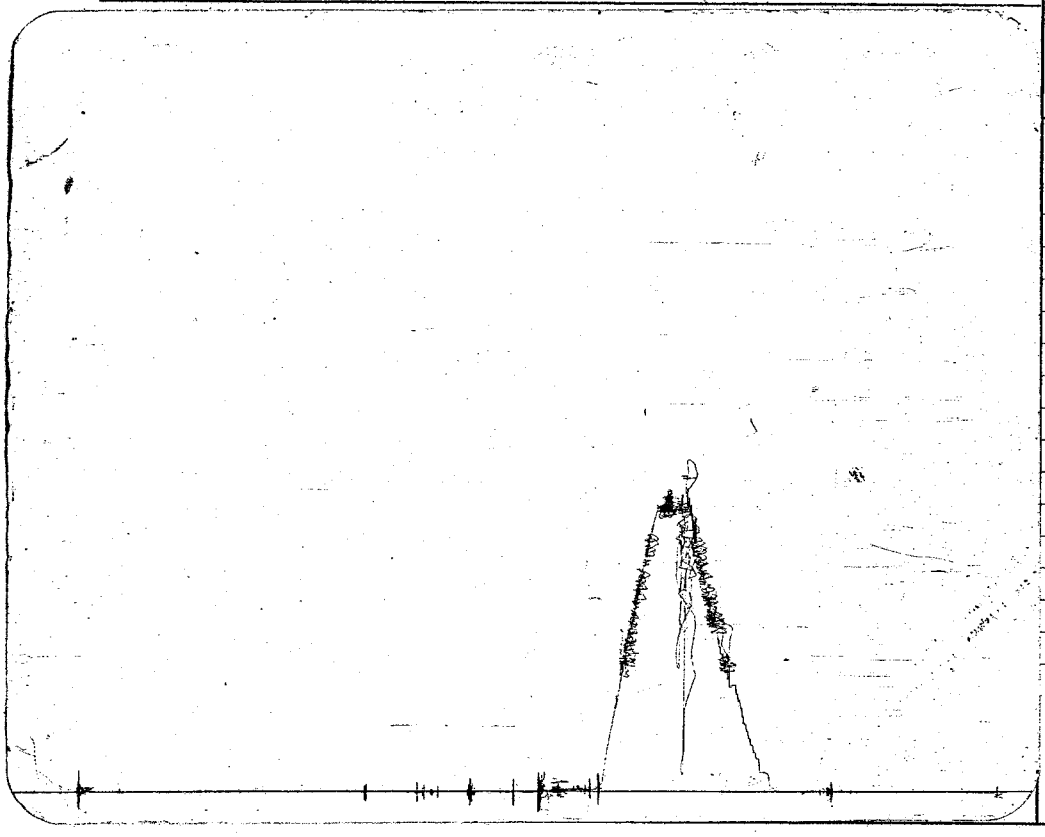
Phone
522-1206, Area 303

LYNES, INC

Box 712
Sterling, Colo. 80751

Operator: American Quasar Petroleum Co.
Address: See Distribution
Well Name and No.: Judd #34-2
Ticket No.: 10270
Date: 10-24-78
DST No.: 2
No. Final Copies: 18

Contractor	True Drlg. Co.	Top Choke	1/4"	Flow No. 1	-- Min.
Rig No.	14	Bottom Choke	1/2"	Shut-in No. 1	-- Min.
Spot	SE-NW	Size Hole	8 3/4"	Flow No. 2	-- Min.
Sec.	34	Size Rat Hole	--	Shut-in No. 2	-- Min.
Twp.	2 N	Size & Wt. D. P.	4 1/2" 16.60	Flow No. 3	-- Min.
Rng.	6 E	Size Wt. Pipe	--	Shut-in No. 3	-- Min.
Field	Lodgepole	I. D. of D. C.	2 1/4"		
County	Summit	Length of D. C.	446'		
State	Utah	Total Depth	4522'	Bottom Hole Temp.	--
Elevation	7372' "K.B."	Interval Tested	4443-4522'	Mud Weight	--
Formation	Frontier	Type of Test	Bottom Hole Conventional	Gravity	--
				Viscosity	--
				Tool opened @	--



Outside Recorder

PRD Make Kuster AK-1
No. 6737 Cap. 5300 @ 4453'

Press		Corrected
Initial Hydrostatic	A	--
Final Hydrostatic	K	--
Initial Flow	B	--
Final Initial Flow	C	--
Initial Shut-in	D	--
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.
Our Tester: Ron Trumble
Witnessed By: --

Did Well Flow – Gas No Oil No Water No
RECOVERY IN PIPE:

MISRUN - Could not reach bottom.

REMARKS:

Form 1

LYNES, INC.

Distribution of Final Reports

Operator American Quasar Petroleum Co. Well Name and No. Judd #34-2

Original: American Quasar Petroleum Co., 204 Superior Bldg., 201 N. Wolcott, Casper, Wyom
Wyoming 82601 Attn: John Sindelar

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3 copies: North Central Oil Corp., Box 27491, Houston, Texas 77027 Attn: Charles Tyler

2 copies: Division Of Oil, Gas, & Mining, 1588 West North Temple, Salt Lake City, Utah 84116

Form 6

Div. of Oil, Gas and Mining
Salt Lake City, UT 84116

I have forwarded a copy of this letter to our Denver office. Since these 3 wells are being completed, they will prepare the Monthly Report of Operations reports that are due.

American Quasar Pet. Co.
Casper, Wyoming office
Drilling Dept.

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director, NATURAL RESOURCES

CLEON B. FEIGHT
Director

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

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

November 13, 1979

RECEIVED
NOV 23 1979
DIVISION OF
GAS, & MINING

American Quasar Petroleum Co.
204 Superior Bldg.
Casper, Wyoming
82601

RECEIVED
NOV 19 1979
CASPER, WYOMING

RE: Please see attached sheet for list of wells and months due.

1 copy for each file

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Pratice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. Please note, a negative report is also required. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Debbie Beauregard

DEBBIE BEAUREGARD
CLERK-TYPIST

ATTACHMENT, MONTHLY REPORTS DUE.

1) Well no. Judd 34-2 - Being Completed
Sec. 34, T. 2N, R. 6E,
Summit county, Utah
June 1979 thru October 1979

2) Well No. Judd 34-3 " "
Sec. 34, t. 2N, R. 6E,
Summit county, Utah
October 1979

3) Well No. ~~Pineview~~ UPRR 3-8s " "
Sec. 3, T. 2N, R. 7E,
Summit county, Utah
Sept. 1979 thru Oct. 1979

Form OGC-3

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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 [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: American Quasar Petroleum Co. of New Mexico

3. ADDRESS OF OPERATOR: 707 United Bank Tower 1700 Broadway, Denver, CO 80290

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2008.1' FWL & 651.8' FSL (SE SW)
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: --
8. FARM OR LEASE NAME: Judd
9. WELL NO.: 34-3
10. FIELD AND POOL, OR WILDCAT: Lodgepole
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 34, T2N-R6E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-043-30098	3/15/79	Summit	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (~~DF, RKB, RT, GR, ETC.~~)*	19. ELEV. CASINGHEAD
5/23/79	8/11/79	1/14/80	7598	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
12084	12018	--	→	0 - TD	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 11830-11834, 11840-11876 (Nugget)

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, FDC-CNL, Dipmeter, Sonic

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	43.5, 40#	3275'	12¼	1400 sx cemt	None
5 ½"	20, 23, 17#	12084	8 3/4	2613 sx cemt	None

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"	9939	--

31. PERFORATION RECORD (*Interval, size and number*)
11830-11834, 11840-11876 4 JSPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
SEE	ATTACHED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
9/13/79	Pumping 2½" x 2" x 24' insert	producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/14/80	24	--	→	537	115	92	214

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	--	→	537	115	92	37.3

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel, vented

TEST WITNESSED BY: Gary Kellogg

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 [signature] TITLE Div. Operations Manager DATE 1/16/80

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

INSTRUCTIONS

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

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

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

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

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

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #1 Twin Creek	11715	11788	w/1748' WC, TO 60" w/wk blow, died in 24", SI 90", rec 1743' WC + 480' drlg mud, IHP 6305, IFP 1053, FFP 1020, FSIP 2245, FHP 6254.
DST #2 Nugget	11820	11872	w/1800' WC, TO 60" w/wk blow, grad incrs to 6# on ¼" ck in 60", SI 90", rec 1027' oil + 1800' WC, IHP 6226, FP 823/946, FSIP 4362, FHP 6061.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Wasatch	Surface	
Echo Cglt	1318	
Frontier	1940	
Aspen	4808	
Bear River	5124	
Kelvin	5325	
Stump	8630	
Preuss	8962	
Twin Creek	10311	
Nugget	11820	

ATTACHMENT TO WELL
COMPLETION REPORT
JUDD 34-3

January 16, 1980

32. Acdz perfs 11830-11834, 11840-11876 w/5000 gals 15% HCl w/30# FR-16, 300 7/8" RCN 1.3 SG ball sealers, displaced w/104 bbls produced water.

Frac'd perfs 11830-11834, 11840-11876 w/3000 gals 2% KCl wtr prepad
10,000 gals Apollo 40 pad
5000 gals Apollo 40 w/1 ppg 20-40 sd
5200 gals Apollo 40 w/2 ppg 20-40 sd
1 ppg gel
100 gals 2 ppg

CL1-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR	American Quasar Petroleum	DATE	Aug. 29, 79 LAB NO. 31801-3
WELL NO.	Judd 34-3	LOCATION	SESW 34-2N-6E
FIELD	Lodgepole	FORMATION	Nugget
COUNTY	Summit	INTERVAL	11820-11872
STATE	Utah	SAMPLE FROM	DST No. 2 {Bottom}

REMARKS & CONCLUSIONS:

AUG 31 1979
CASPER WYOMING

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	26332	1145.45	Sulfate	1750	36.40
Potassium	57	1.46	Chloride	39000	1099.80
Lithium			Carbonate	-	-
Calcium	309	15.42	Bicarbonate	1623	26.62
Magnesium	6	0.49	Hydroxide		
Iron	-		Hydrogen sulfide	-	
Total Cations		1162.82	Total Anions		1162.82

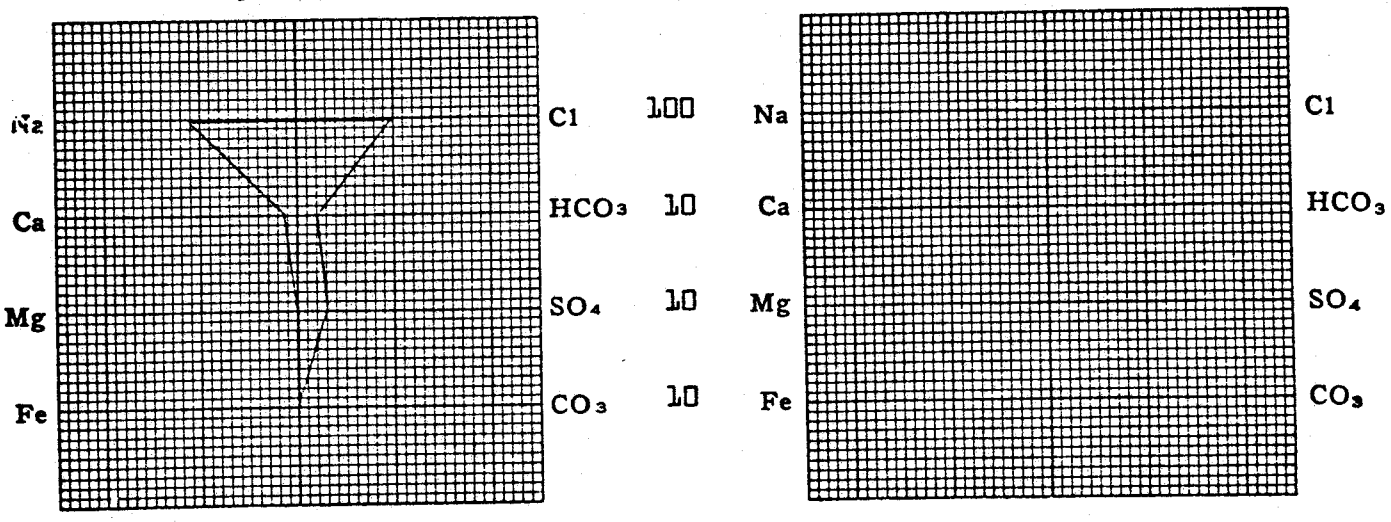
Total dissolved solids, mg/1	68253
NaCl equivalent, mg/1	67008
Observed pH	8.1

Specific resistance @ 68°F.:
Observed 0.135 ohm-meters
Calculated 0.112 ohm-meters

WATER ANALYSIS PATTERN

Sample above described

Scale
MEQ per Unit



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

February 27, 1980

American Quaser Petroleum Co.
204 Superior Bldg.
Casper, Wyoming 82601

Re: Well No.Judd 34-2
Sec. 34, T. 2N, R. 6E
Summit County, Utah

Gentlemen:

Our records indicate that this well is currently shut-in according to a location inspection on August 29, 1979.

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

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

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Janice Tabish

JANICE TABISH
CLERK TYPIST

AMERICAN QUASAR PETROLEUM CO.

330 PACIFIC WESTERN LIFE BUILDING / CASPER / WYOMING 82601 U.S.A. / TELEPHONE (307) 265-3362

OUR NEW ADDRESS:
204 SUPERIOR BLDG.
201 NO. WOLCOTT

March 5, 1980

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

Attention: Janice Tabish, Clerk Typist

Re: Judd #34-2
Sec. 34-2N-6E
Summit County, Utah

Gentlemen:

This will acknowledge receipt of your letter of February 27, 1980 (copy attached) relative to filing a Well Completion Report on the captioned well.

Pursuant to my telephone conversation with you this date, I am mailing your letter and forms to our Denver office for further handling.

Very truly yours,

Billie Highsmith

Billie Highsmith
Drlg. Dept. Admin. Asst.

bh
c/c to: Mary Marson - Denver Office

RECEIVED
MAR 1 0 1980
DIVISION OF
OIL, GAS & MINING

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

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

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
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E. STEELE McINTYRE

February 27, 1980

American Quaser Petroleum Co.
204 Superior Bldg.
Casper, Wyoming 82601

Re: Well No.Judd 34-2
Sec. 34, T. 2N, R. 6E
Summit County, Utah

Gentlemen:

Our records indicate that this well is currently shut-in according to a location inspection on August 29, 1979.

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

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

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Janice Tabish

JANICE TABISH
CLERK TYPIST

RECEIVED
MAR 1 0 1980
DIVISION OF
OIL, GAS & MINING

Form OGC-1b

SUBMIT IN TRIPLICATE*
(C r instructions on
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.
Fee

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL ☐ GAS WELL ☐ OTHER (Completion)

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
American Quasar Petroleum Co.

8. FARM OR LEASE NAME
Judd

3. ADDRESS OF OPERATOR
204 Superior Bldg., Casper, Wyoming 82601

9. WELL NO.
34-2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1979.1' FNL & 2163.2' FWL

Copy

10. FIELD AND POOL, OR WILDCAT
Lodgepole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
34-2N-6E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7666' GR

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Monthly Report of Operations			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

This is a Monthly Report of Operations for period 1/1-9/79 (see attached chronological report).

Well now being completed.

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

SIGNED John E. Sindelar TITLE Division Drlg. Supt. DATE 1/31/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
MAR 10 1980
DIVISION OF
OIL, GAS & MINING

*See Instructions on Reverse Side

JUDD 34-2

Attachment to Well Completion Report

31. Perforated 11,014, 11,051, 11,062, 11,066, 11,081, 11,083, 11,090, 11,098, 11,132, 11,135, 11,138, 11,141, 11,166, 11,177, 11,181, 11,185, 11,188, 11,192, 11,196, 11,200, 11,203, 11,206, 11,209, (total 23 shots), 1 shot per foot.

Perforated 11,570-11,585, 1 shot per foot, 4" casing gun.

Perforated 11,470, 11,466, 11,463, 11,457, 11,451, 11,435, 11,430, 11,425, 11,420, 11,415, 11,410, 11,395, 11,393, 1 shot per foot, 4" casing gun.

32. Acidized perforations 11,014-11,209 with 10,500 gallons 28% HCl, dropped 35 7/8" ball sealers, flushed with 65 bbls water.

Acidized perforations 11,570-11,585 with 1500 gallons 28% HCl, flushed with 70 bbls water.

Acidized perforations 11,393-11,470 with 6000 gallons 28% HCl, dropped 20 ball sealers, flushed with 67 bbls water.

Frac'd perforations 11,014-11,209 with 11,750 gallons gel with 20,000 gallons pad pumped, 100 mesh sand.

RECEIVED
MAR 17 1980
DIVISION OF
OIL, GAS & MINING

Form OGC-3

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

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: American Quasar Petroleum Company

3. ADDRESS OF OPERATOR: 707 United Bank Tower 1700 Broadway Denver, CO 80290

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1979.1' FNL, 2163.2' FWL (SE NW)
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Judd
9. WELL NO.: 34-2
10. FIELD AND POOL, OR WILDCAT: Lodgepole-Twin Creek
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 34, T2N-R6E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-043-30081	8/17/78	Summit	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9/26/78	1/5/79	5/26/79	7371	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
11,817'	11,350'	--	→	0-TD	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 11014-11209' (Twin Creek)

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: ~~DIL-GR, BHC,~~ HDT

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48#	48'	17½"	6 yds Ready Mix	None
9 5/8	36#, 40#	2018'	12¼"	1700 sx cemt.	None
5½	20#, 17#	11817'	8 3/4"	2146 sx cemt.	None

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	8518	None

31. PERFORATION RECORD (*Interval, size and number*): See Attached

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See Attached	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
3/23/79	Pumping 2½ x 1½ x 18' x 20' x 25'	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/24/79	24	--	→	20	6	2	300

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	--	→	20	6		40.1

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel

TEST WITNESSED BY: Gary Kellogg

35. LIST OF ATTACHMENTS

RECEIVED
MAR 17 1980
DIVISION OF OIL, GAS & MINING

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

SIGNED [signature] TITLE Division Operations Mgr. DATE 8/27/79

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #1	2620	2694	Tool opened 60" with strong blow, remaining constant throughout flow period, SI 60 min, recovered 941' 8.6# per gal drlg mud. No shows. IHP 1104, IFP 449/464, FISP 702, FHP 1059.
DST #2	4443	4522	Misrun
DST #3	4443	4522	Misrun
DST #4	4443	4525	Frontier, Tool opened 10" with 1" blow increasing to btm of bucket in 8", SI 60", Tool opened 60", off btm of bucket in 8", no gas or fluid to surface, SI 120", recovered 584' muddy wtr, plus 897' wtr. IHP 1995, IFP 123/222, ISIP 1502, FFP 283/616, FSIP 1502, FHP 1921.
DST #5	7551	7577	Tool opened 10" with strong blow, SI 60", Tool opened 60" with strong blow, decreasing to weak blow in 40", SI 120", recovered 4510' fluid, 90' drlg mud, 2420' muddy wtr, IHP 3588, IFP 813/1330, ISIP 3007, FFP 1330/1958, FSIP 2798, FHP 3513.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Wasatch	Surface	
Echo	818'	
Frontier	1404	
Aspen	4522	
Bear River	4866	
Kelvin	5196	
Stump	8400	
Preuss	8808	
Twin Creek	10206	
Nugget	11698	

AMERICAN QUASAR PETROLEUM CO.

2500 FORT WORTH NATIONAL BANK BUILDING / FORT WORTH / TEXAS 76102, U.S.A.

Telephone (817) 335-4701

Kathy
file in well
file

June 3, 1980

RECEIVED
JUN 9 1980
DIVISION OF
OIL, GAS & MINING

Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: Judd 34-2
Summit County, Utah

Gentlemen:

Please find attached a copy of necessary information pertaining to our making interim collections under Part 273.203 of the NGPA of 1978 on the above captioned well.

Very truly yours,

Phyllis Popplewell

Phyllis Popplewell
Administrative Assistant

/p

Enc.

CERTIFICATE OF SERVICE

Pursuant to Federal Energy Regulatory Commission (FERC) Regulation 273.203 (d) (iii) of the Natural Gas Policy Act of 1978 (NGPA), this will certify that the names of the purchasers of the well in the statement to which this is attached are as follows:

Mountain Fuel Supply Co.
P.O. Box 11368
Salt Lake City, Utah 84139

This will certify that copies of this filing have been sent to each of said parites by certified mail in accordance with the requirements of Section 1.17 of the Rules of Practice and Procedures of the Natural Gas Act.

Dated this 3rd day of Juen, 1980

BY: Phyllis Popplewell

Phyllis Popplewell, Adm. Assistant

Party Filing American Quasar Petroleum Co.

NOTICE OF INTERIM COLLECTION PENDING REVIEW OF
JURISDICTIONAL AGENCY DETERMINATION
Under NGPA Section 503
FERC Regulations §273.203(c)

The seller hereby gives notice to FERC and to the applicable jurisdictional agency of interim collection under regulation §273.203 of the applicable price established by the determination of such jurisdictional agency.

A Certificate of Service of the service of this Notice to any purchasers is attached.

The well that is the subject of this Notice is:

Name Judd 34-2
Location Sec. 34, T2N, R6E
Field Lodgepole
County/State Summit County, Utah
Purchaser Mountain Fuel Supply Co.
Date of Gas Purchase Contract 10-10-75
Applicable Price NGPA 103

This Notice is given the by undersigned seller as operator and in behalf of Non-Operators of such well.

By Phyllis Popplewell
Phyllis Popplewell

Administrative Assistant
Title

Attachments
Certificate of Service
Agreement §273.302(b)(2)

DISTRIBUTION
FERC - Original + 5
Jurisdictional Agency - 1
Purchaser - 1

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 6, 1981

U.S. Environmental Protection
Agency
Attn: Mike Kuntz, Attorney
Region VIII
1860 Lincoln Street
Denver, CO 80295

Re: Class II Underground
Injection Applications
Energy Reserves Group, Inc.
SW SW Sec. 10, T. 7S, R. 23E
Uintah County, Utah
&
American Quasar Petroleum Co.
SW NW Sec. 34, T. 2N, R. 6E
Summit County, Utah

Dear Mike,

Please find enclosed for your review and comments, the above applications for a Class II well determination.

As these applications must be noticed and published in accordance with Rule I-5(b)(6), please contact this Division and/or submit all comments within fifteen days of the date of receipt, or the applications will continue to be processed without your comments.

Your prompt attention in reviewing these applications will be greatly appreciated and if you have any questions or require further information, please do not hesitate to call or write the Division.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Thalia R. Pratt

THALIA R. PRATT
UIC SPECIALIST

Enclosures: (2)

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

5. Lease Designation and Serial No.: FEE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name:

1a. Type of Work: DRILL ☐ DEEPEN ☐ PLUG BACK ☒

7. Unit Agreement Name:

b. Type of Well: Oil Well ☐ Gas Well ☐ Other Salt Water Disposal Single Zone ☒ Multiple Zone ☐

8. Farm or Lease Name: Judd

2. Name of Operator: American Quasar Petroleum Co.

9. Well No.: 34-2

3. Address of Operator: 707 United Bank Tower 1700 Broadway Denver, CO 80290

10. Field and Pool, or Wildcat: Lodgepole

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 1979 FNL, 2163' FWL
At proposed prod. zone: Stump

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 34, T2N-R6E

14. Distance in miles and direction from nearest town or post office*: Approx. 15 miles NE of Coalville

12. County or Parrish: Summit 13. State: Utah

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

16. No. of acres in lease: N/A

17. No. of acres assigned to this well: N/A

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

19. Proposed depth: N/A

20. Rotary or cable tools: N/A

21. Elevations (Show whether DF, RT, GR, etc.): 7371' GR 7387' KB

22. Approx. date work will start*: February, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17½"	13 3/8"	48#	48'	6 yds Ready Mix
12¼"	9 5/8"	36#, 40#	2018'	1700 sx cemt
8 3/4"	5½"	20#, 17#	11817'	2146 sx cemt

Application is made to dispose of produced Nugget and Twin Creek waters in the Stump formation. The Stump formation is not a USDW. See attached exhibits in support of this application, listed below:

Exhibit I - Location Map showing offset producers and Lessee ownership.
Exhibit II - Topographic Map with existing roads.
Exhibit III - Geologic Structure Map.
Exhibit IV - Geologic Cross-Section.
Exhibit V - Wellbore Diagram.
Exhibit VI - Well Completion or Recompletion Report (Form OCG-3) for producing wells to be serviced by disposal system and water analysis.
Exhibit VII - Table of Current and Cumulative Production.
Exhibit VIII - Proposed Completion Prognosis for converting Judd 34-2 to SWD.
Exhibit IX - Copies of Acoustic Cement Bond Log and Porosity (Borehole Compensated Sonic) Log.
Exhibit X - Schematic of Disposal System Facilities.

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.

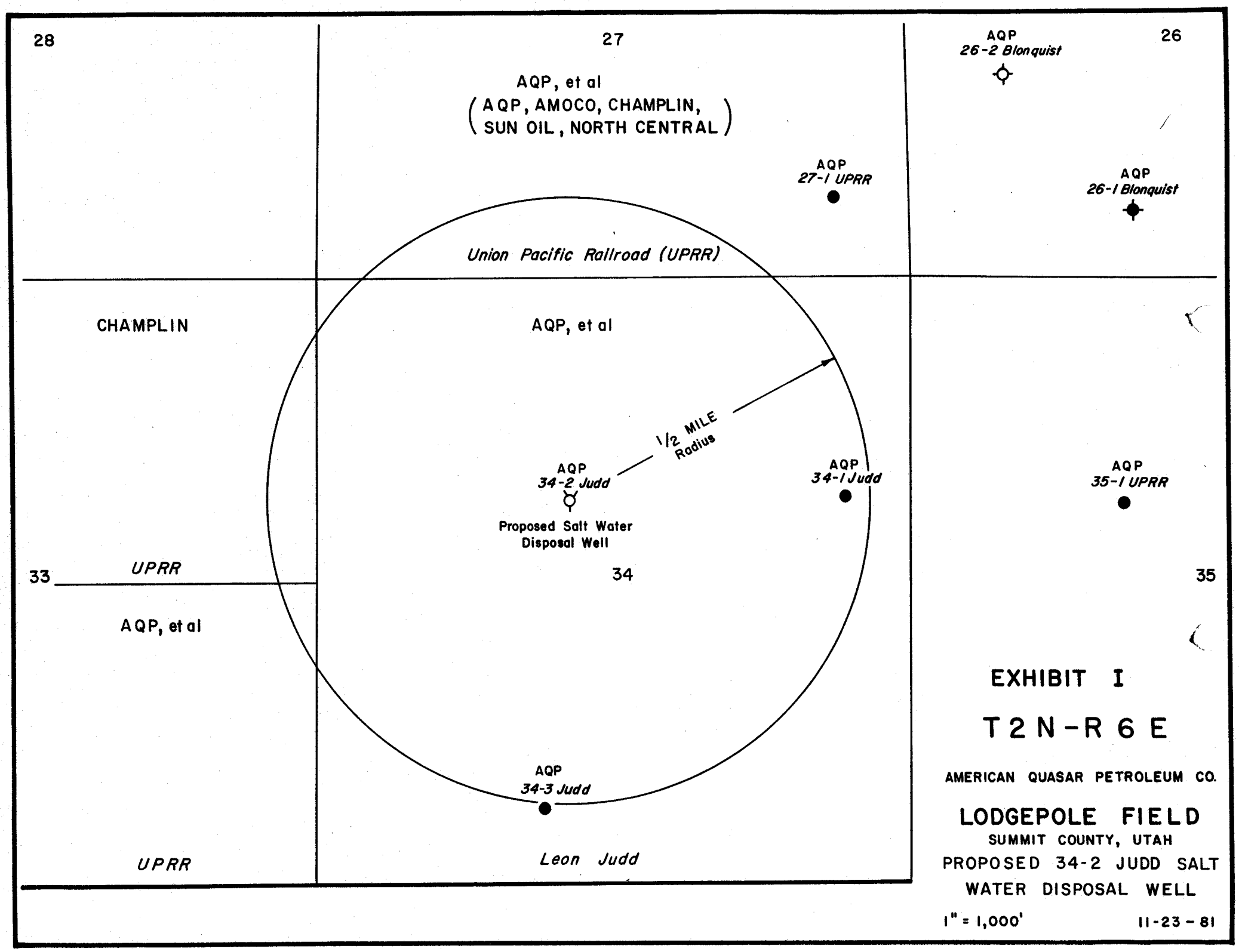
24.
Signed: James T. Brown Title: Division Production Manager Date: 12/29/81

(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side


28
27
26
AQP
26-2 Blonquist
AQP, et al
(AQP, AMOCO, CHAMPLIN,
SUN OIL, NORTH CENTRAL)
AQP
27-1 UPRR
AQP
26-1 Blonquist
Union Pacific Railroad (UPRR)
CHAMPLIN
AQP, et al
1/2 MILE
Radius
AQP
34-2 Judd
AQP
34-1 Judd
AQP
35-1 UPRR
Proposed Salt Water
Disposal Well
33
UPRR
34
35
AQP, et al
AQP
34-3 Judd
UPRR
Leon Judd
EXHIBIT I
T2N-R6E
AMERICAN QUASAR PETROLEUM CO.
LODGEPOLE FIELD
SUMMIT COUNTY, UTAH
PROPOSED 34-2 JUDD SALT
WATER DISPOSAL WELL
1" = 1,000'
11-23-81

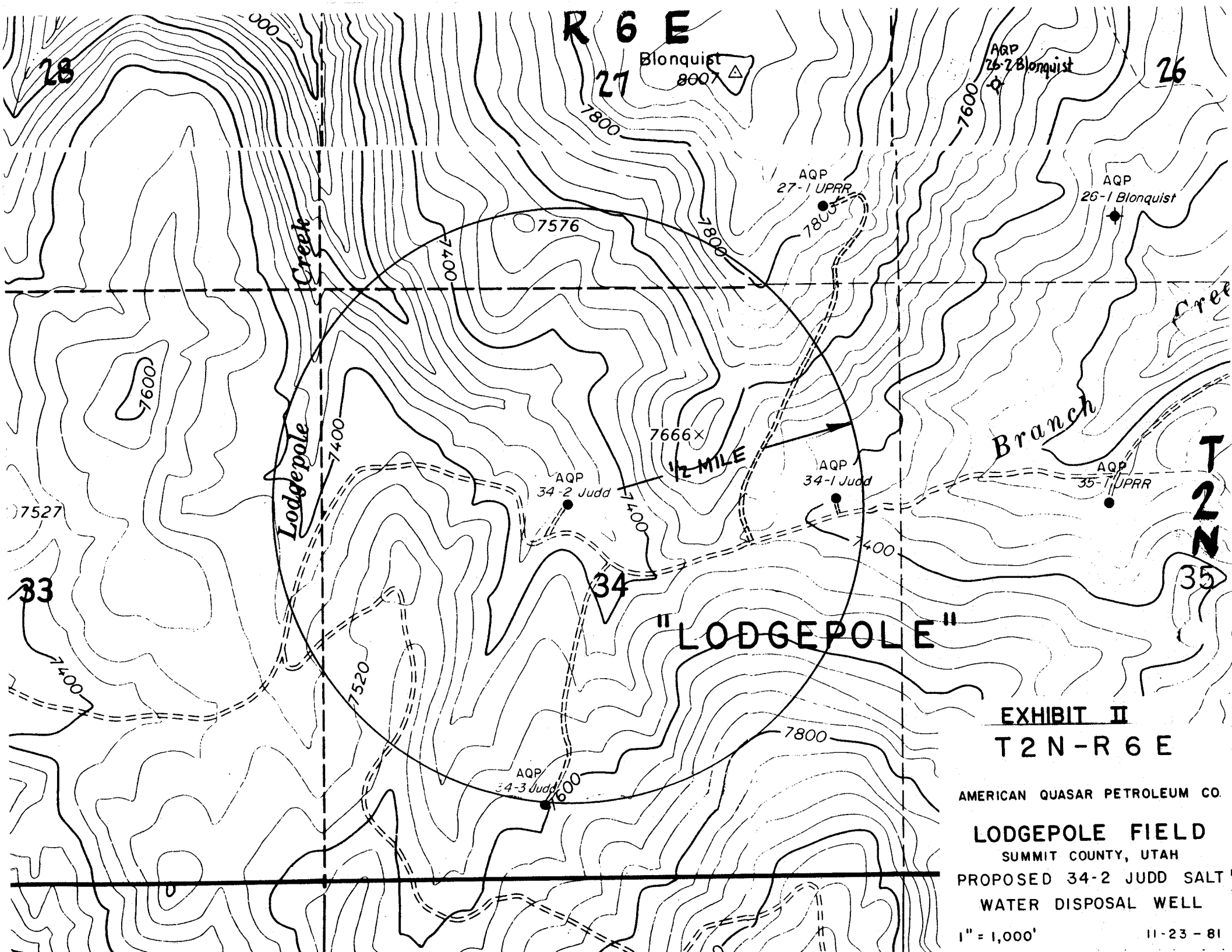


EXHIBIT II

T 2 N - R 6 E

AMERICAN QUASAR PETROLEUM CO.

LODGEPOLE FIELD

SUMMIT COUNTY, UTAH

PROPOSED 34-2 JUDD SALT WATER DISPOSAL WELL

1" = 1,000'

11-23-81

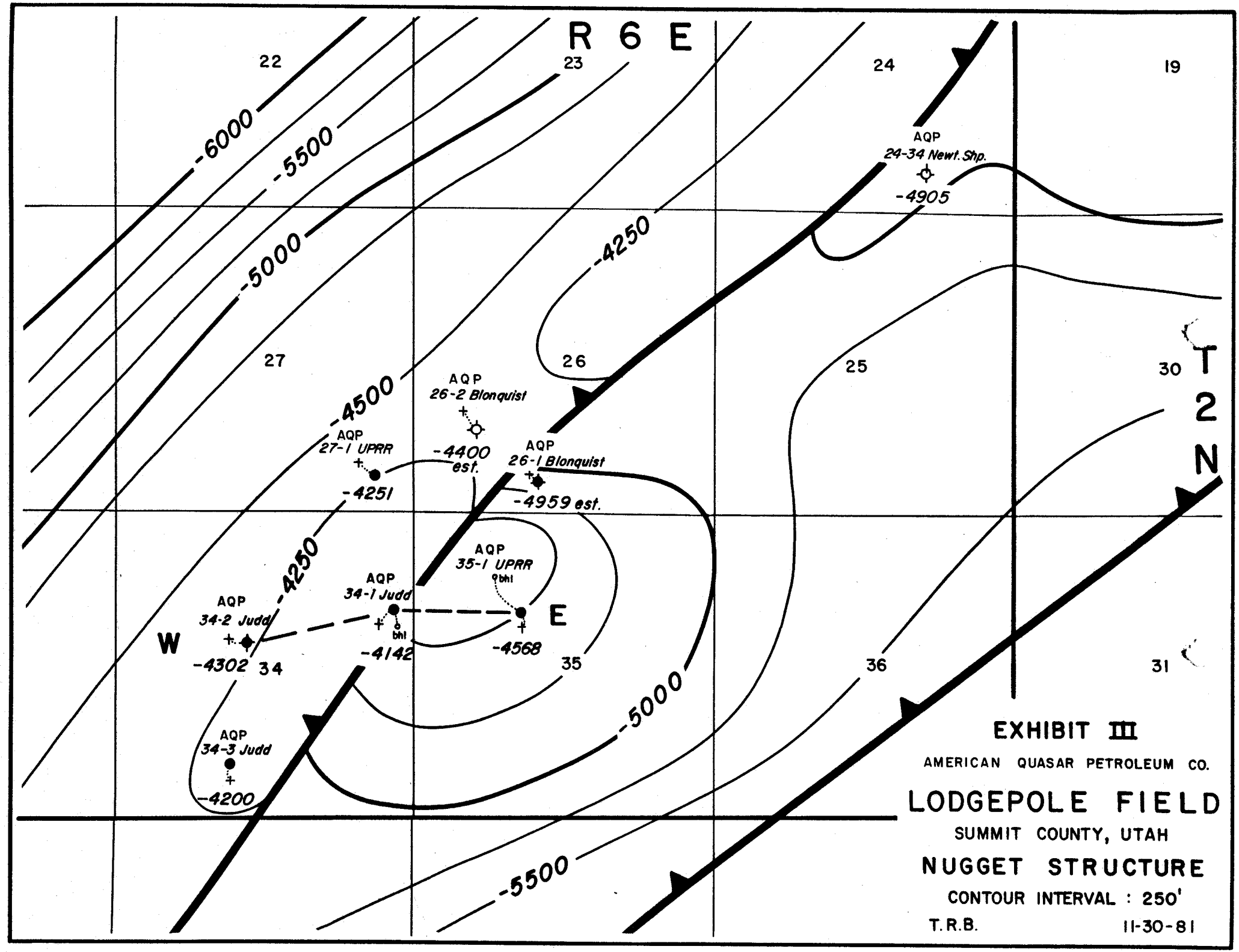


EXHIBIT III

AMERICAN QUASAR PETROLEUM CO.

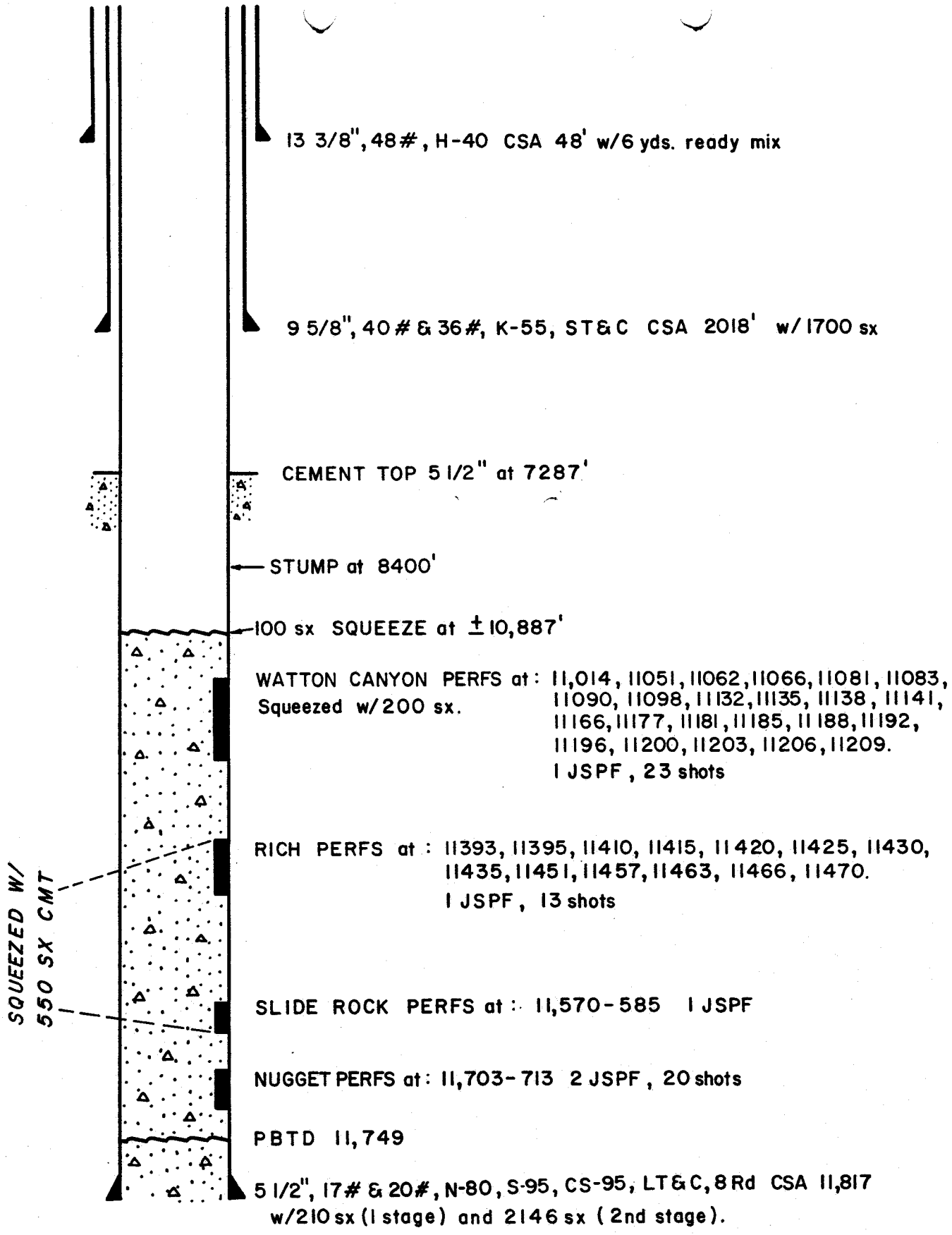
LODGEPOLE FIELD

SUMMIT COUNTY, UTAH

NUGGET STRUCTURE

CONTOUR INTERVAL : 250'

T.R.B. 11-30-81



LOCATION: 1979 fnl, 2163 fwl, sec. 34,
T 2 N - R 6 E SUMMIT CO, UTAH

ELEVATION: 7371 gr, 7387 KB

EXHIBIT V

AMERICAN QUASAR PETROLEUM CO.

JUDD 34-2 WELL BORE DIAGRAM

NO SCALE 11-30-81

EXHIBIT VI

WELL COMPLETION OR RECOMPLETION REPORT

AND

WATER ANALYSES

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

6

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL ☐ DEEPEN ☐ PLUG BACK ☒

b. Type of Well
Oil Well ☐ Gas Well ☐ Other Salt Water Disposal Single Zone ☒ Multiple Zone ☐

2. Name of Operator
American Quasar Petroleum Co.

3. Address of Operator
707 United Bank Tower 1700 Broadway Denver, CO 80290

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface 1979 FNL, 2163' FWL

At proposed prod. zone Stump

5. Lease Designation and Serial No.
FEE

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name
Judd

9. Well No.
34-2

10. Field and Pool, or Wildcat
Lodgepole

11. Sec., T., R., M., or Blk. and Survey or Area
Sec. 34, T2N-R6E

12. County or Parrish 13. State
Summit Utah

14. Distance in miles and direction from nearest town or post office*
Approx. 15 miles NE of Coalville

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

16. No. of acres in lease N/A

17. No. of acres assigned to this well N/A

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

19. Proposed depth N/A

20. Rotary or cable tools N/A

21. Elevations (Show whether DF, RT, GR, etc.)
7371' GR 7387' KB

22. Approx. date work will start*
February, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17½"	13 3/8"	48#	48'	6 yds Ready Mix
12¼"	9 5/8"	36#, 40#	2018'	1700 sx cemt
8 3/4"	5½"	20#, 17#	11817'	2146 sx cemt

Application is made to dispose of produced Nugget and Twin Creek waters in the Stump formation. The Stump formation is not a USDW. See attached exhibits in support of this application, listed below:

Exhibit I - Location Map showing offset producers and Lessee ownership.
Exhibit II - Topographic Map with existing roads.
Exhibit III - Geologic Structure Map.
Exhibit IV - Geologic Cross-Section.
Exhibit V - Wellbore Diagram.
Exhibit VI - Well Completion or Recompletion Report (Form OCG-3) for producing wells to be serviced by disposal system and water analysis.
Exhibit VII - Table of Current and Cumulative Production.
Exhibit VIII - Proposed Completion Prognosis for converting Judd 34-2 to SWD.
Exhibit IX - Copies of Acoustic Cement Bond Log and Porosity (Borehole Compensated Sonic) Log.
Exhibit X - Schematic of Disposal System Facilities.

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 James T. Brown Title Division Production Manager Date 12/29/81

(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side

EXHIBIT VIII

JUDD 34-2

CONVERSION TO WATER DISPOSAL

SECTION 34, T2N-R6E, SUMMIT COUNTY, UTAH

1. MIRU. Kill well if necessary and NU BOP's.

2. TOH w/tubing. TIH w/bit and scraper to ±8500'. Pressure test casing 2500 psi. POH.

3. RU wireline company and perforate Stump intervals using 4" casing gun with 4 SPF:

8690-8730	(40')
8668-8682	(14')
8654-8658	(4')
8628-8642	(12')
	70' total

Depths refer to Schlumberger's Borehole Compensated Sonic log run 1/5/79. Dresser's Cement bond log with collar log, run 1/23/79, reads 1' shallow to Schlumberger log.

4. RIH w/retrievable pkr on 2 7/8" tbg. Break down formation w/rig pump. RU and swab to determine formation fluids. Catch samples of formation fluids for analysis. Notify State of Utah of plans to swab. Sample

5. Acidize with 10,000 gals 15% HCl w/corrosion inhibitor. Drop 100 7/8" RCN (S.G = 1.1) ball sealers evenly spaced in last 2/3 of job. Max pump pressure 5000 psi. Overdisplace w/50 bbls treated produced water.

6. Kill well. POH w/tbg & pkr. TIH w/retrievable pkr on 2 7/8" internally coated tubing to ±8400'. Circ backside w/inhibited pkr fluid. Set pkr and test. ND BOP, NU wellhead, SI well until connection to disposal system complete. Now arrived

7. Place well on injection. Do not exceed 2500 psi injection pressure.

Nipple Down.

APPROVED JTB DATE 12/21/81

UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 3-22-82 12:30 p.m.

Our Laboratory Number 820151

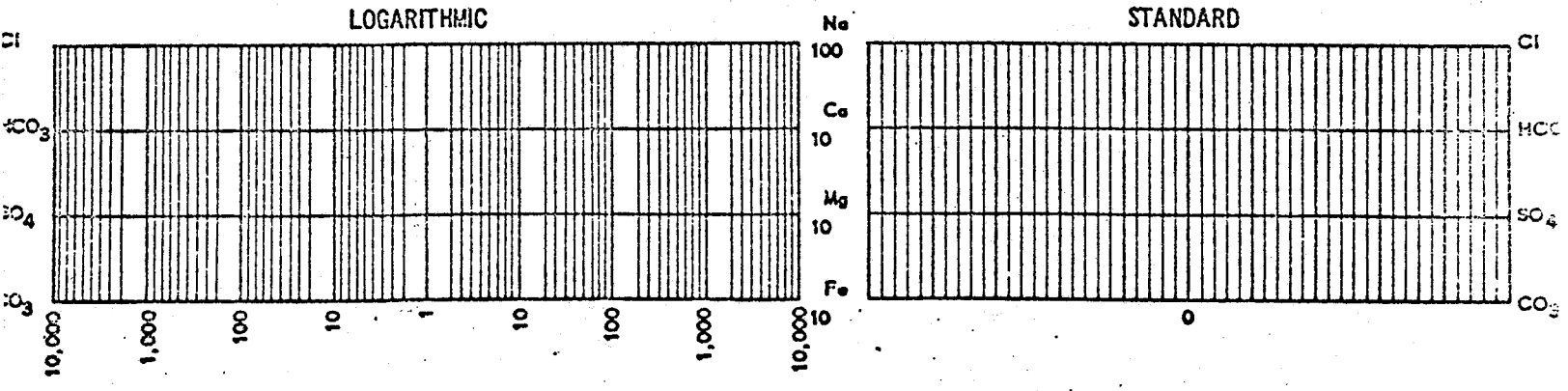
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .972 pH 7.63 RES. .29 OHM METERS @ 77°F

TOTAL HARDNESS 1,874. mg/L as $CaCO_3$ TOTAL ALKALINITY 77.7 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/l.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	560.	27.94		
MAGNESIUM - Mg^{++}	116.	9.53		
SODIUM - Na^{+}	20,100.	874.29		
Potassium - K^{+}	230.	5.88		
BARIUM (INCL. STRONTIUM) - Ba^{++}	7.	0.10		
TOTAL IRON - Fe^{++} AND Fe^{+++}	3.	11.10		
BICARBONATE - HCO_3^{-}	47.40	0.78		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	23,640.	666.66		
TOTAL DISSOLVED SOLIDS	53,200.			

MILLEQUIVALENTS PER LITER



UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 Judd 3-20-82 3:00p.m.

Our Laboratory Number 820149

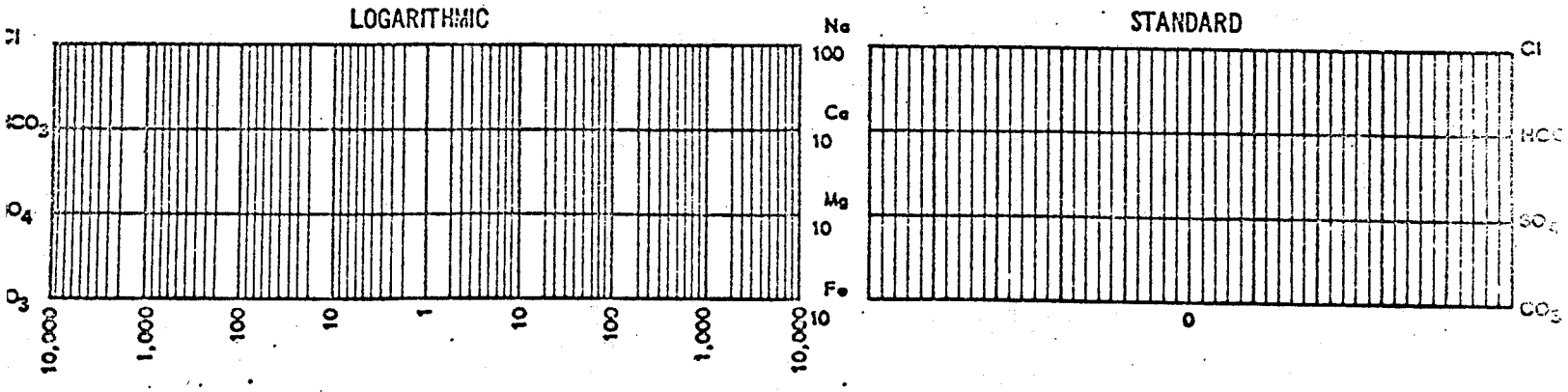
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .963 pH 10.27 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 699. mg/L as $CaCO_3$ TOTAL ALKALINITY 379. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	280.	13.97		
MAGNESIUM - Mg^{++}	0.0	0.00		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	478.	12.22		
BARIUM (INCL. STRONTIUM) - Ba^{++}	3.	0.04		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.	0.04		
BICARBONATE - HCO_3^{-}	671.61	11.01		
CARBONATE - CO_3^{--}	221.11	7.37		
SULFATE - SO_4^{--}	1,830.	38.09		
CHLORIDE - CL^{-}	28,488.	803.38		
TOTAL DISSOLVED SOLIDS	62,760.			

MILLEQUIVALENTS PER LITER



0070A

AMERICAN QUASAR PETROLEUM CO.
OF NEW MEXICO

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

December 29, 1981

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

Attention: Mr. Cleon B. Feight, Director

Subject: Application to convert the Judd 34-2 to Water Disposal Well
SE¼ NW¼ Sec. 34, T2N-R6E, Summit County, Utah

Gentlemen:

American Quasar Petroleum Co. requests approval to convert the Judd 34-2 to a water disposal well in the Stump formation. The well was drilled in 1979 as step-out well, tested non-commercial in the Twin Creek and has been shut in since that time. As requested in Rule I-1 "Underground Injection Criteria and Standards", the following exhibits in support of this application are listed on the attached Sundry Notice:

Exhibit I - Location - Lease Ownership Plat
Exhibit II - Topographic Map and Existing Roads
Exhibit III - Geologic Structure Map
Exhibit IV - Geologic Cross-Section
Exhibit V - Well Bore Diagram - Judd 34-2 (current)
Exhibit VI - Well Completion Sundries and Water Analysis
Exhibit VII - Current and Cumulative Production Table
Exhibit VIII - Proposed Completion Prognosis - Judd 34-2
Exhibit IX - Copies of Cement Bond and Porosity Logs
Exhibit X - Water Injection System Schematic

The Judd 34-2 was spudded on September 26, 1978 and 5½" casing was set at the total depth of 11,817'. The well was tested in the Watton Canyon, Slide Rock and Rich members of the Twin Creek formation. The Slide Rock and Rich perforations were squeeze cemented and the Judd 34-2 was completed on pump in the Watton Canyon on May 26, 1979. The well produced 15 months before reaching an un-economic producing rate in September, 1980 and was temporarily abandoned. Cumulative recovery was 7,453 BO from the Watton Canyon. In June, 1981, the Watton Canyon perfs were squeezed off and the well was cleaned out to 11,749' to test the Nugget formation at 11,703-11,713'. The Nugget was non-productive and has been squeeze cemented. Our evaluation indicates no additional testing is warranted.

The top of the Stump formation is 8400' (-1013' Subsea) and the base of the Stump is 8808' (-1421' Subsea). American Quasar requests approval for disposal of the produced waters into the interval from 8600' (KB) to 8750' (KB). A proposed completion prognosis (Exhibit VIII) outlines the details of the proposed conversion. The attached Acoustic Cement Bond Log shows excellent cement bond over this interval and the cement top behind the 5½" casing is 7287' KB (Exhibit IX). The excellent cement bond should preclude any uphole contamination. In addition, there is no offset production in the Stump formation within the Lodgepole Field.

The produced waters from the Judd 34-1, Judd 34-3, UPRR 27-1 and UPRR 35-1 (operated by American Quasar) will be injected into the Stump formation in the Judd 34-2. Exhibit VII shows the current daily rate, the producing formation and the cumulative production for these wells. The current daily water production is approximately 1100 to 1300 BWPD. The water cut in the producing wells is expected to increase, similar to our experience with the Pineview Field wells, and the maximum daily water injection is not forecast to exceed 1400 BWPD. The maximum injection pressure will be 2500 psi.

We have designed the proposed disposal system to safely handle 1400 BWPD and have provided 3000 barrels storage (Exhibit X). Our field personnel check each producing location twice a day. The proposed system will be incorporated into the daily monitoring schedule to insure maximum pressures are not exceeded. Reports to the Board of Oil, Gas and Mining will be submitted in accordance with Rule I-1 Section M.

American Quasar would appreciate administrative approval of this request to avoid delays associated with having a hearing based on the following reasons:

1. Lodgepole Field is proximal to Pineview Field, in which the Division of Oil, Gas and Mining Staff was given authority to take administrative action by the Board (Order for Cause 160-14, Application for Water Disposal, Pineview Field).

2. The waters to be injected are from the same formations (Nugget and Twin Creek) and of similar composition (see Water Analysis Exhibit VI).

3. The proposed disposal formation, the Stump, is the same formation used for disposal at Pineview.

4. One well is producing at its economic limit and another well is very near to the economic limit, due to the expense of trucking water to a suitable disposal site.

American Quasar will be glad to provide any additional information you might require as soon as possible.

Very truly yours,

Jim Brown

James T. Brown
Division Production Manager

JTB:sb
attachments

SCHEMATIC DIAGRAM

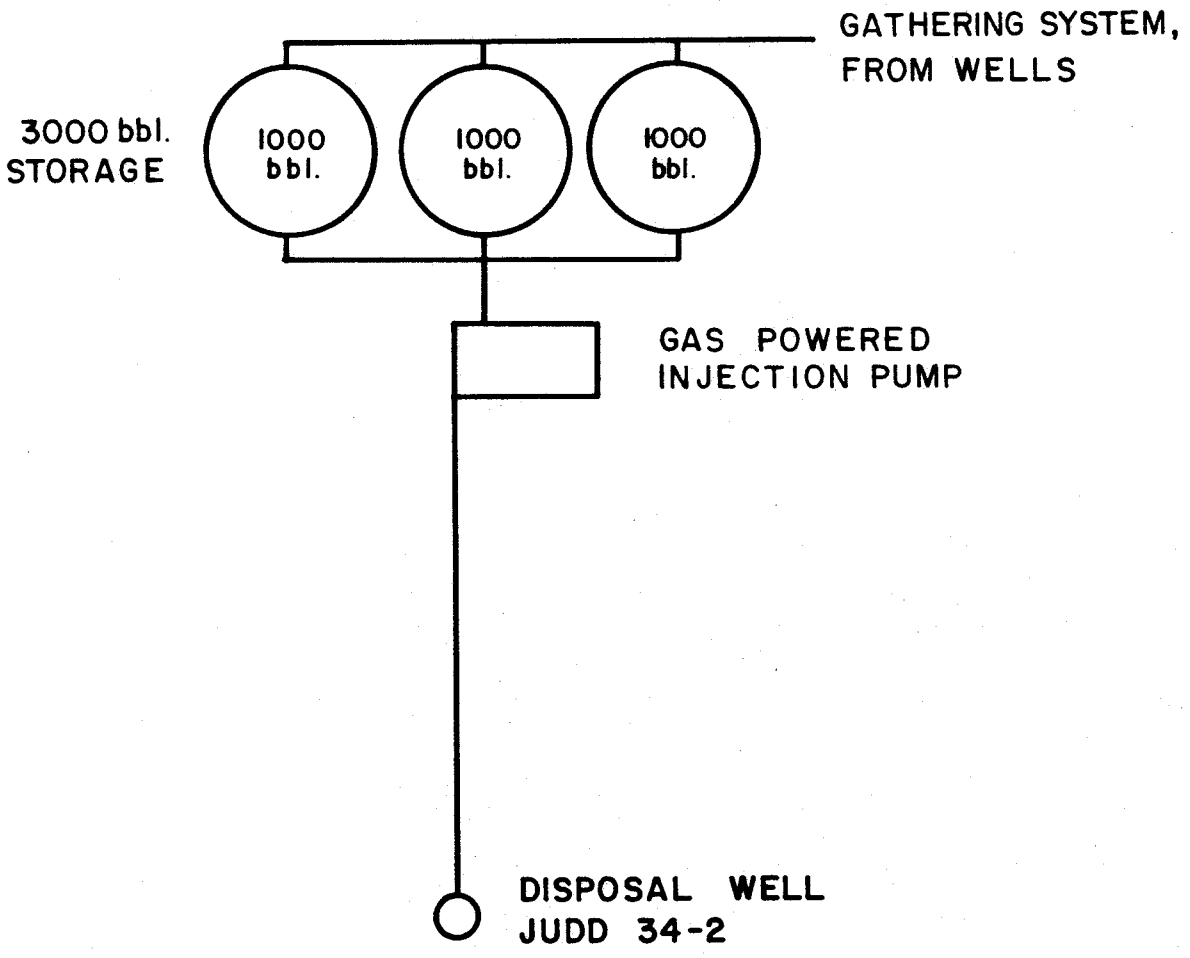


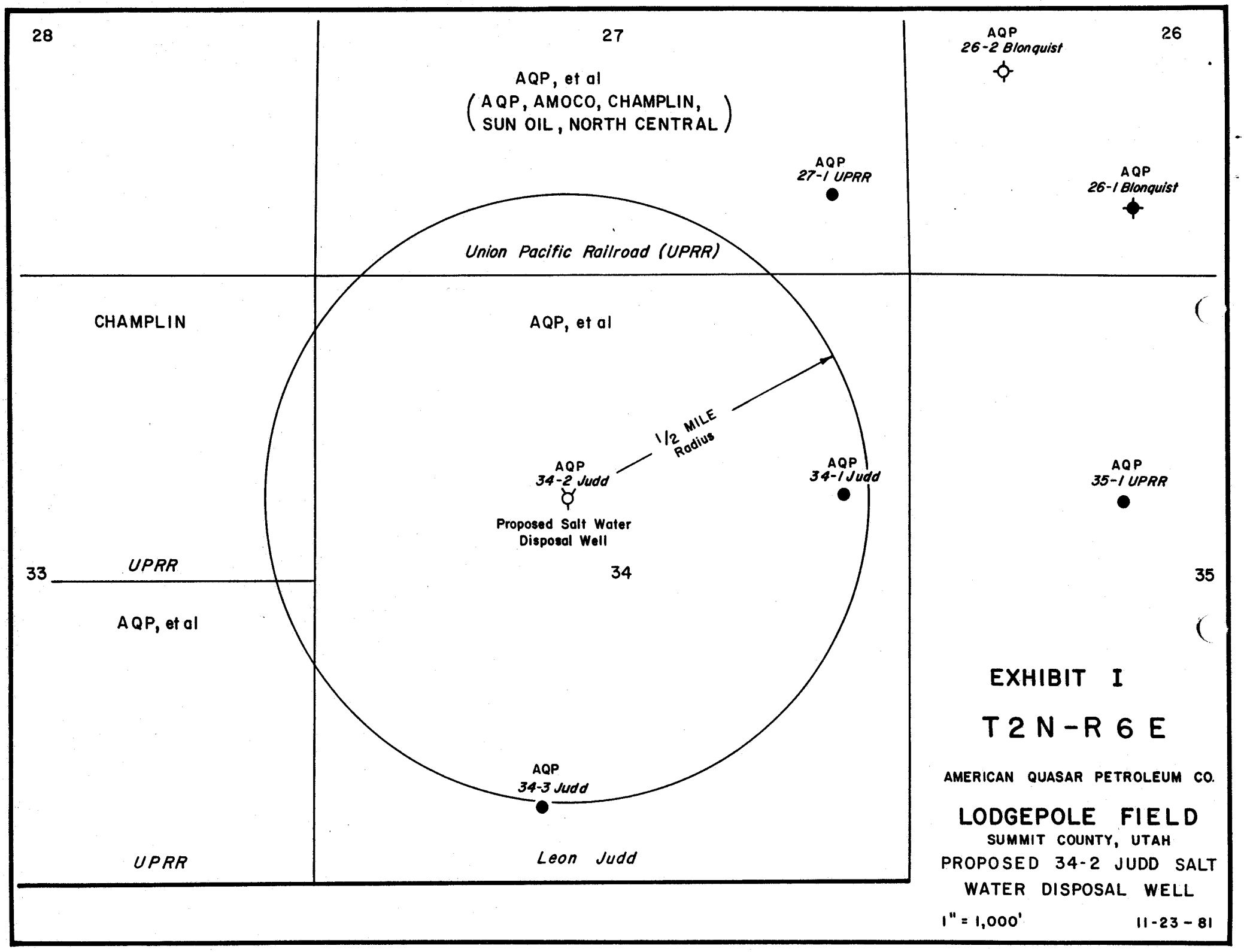
EXHIBIT X

AMERICAN QUASAR PETROLEUM CO.

LODGEPOLE DISPOSAL SYSTEM

SUMMIT COUNTY, UTAH

11-23-81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AQP
26-2 Blonquist
AQP, et al
(AQP, AMOCO, CHAMPLIN,
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AQP
27-1 UPRR
AQP
26-1 Blonquist
Union Pacific Railroad (UPRR)
CHAMPLIN
AQP, et al
1/2 MILE
Radius
AQP
34-2 Judd
AQP
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Proposed Salt Water
Disposal Well
33
UPRR
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UPRR
Leon Judd
EXHIBIT I
T2N-R6E
AMERICAN QUASAR PETROLEUM CO.
LODGEPOLE FIELD
SUMMIT COUNTY, UTAH
PROPOSED 34-2 JUDD SALT
WATER DISPOSAL WELL
1" = 1,000'
11-23-81

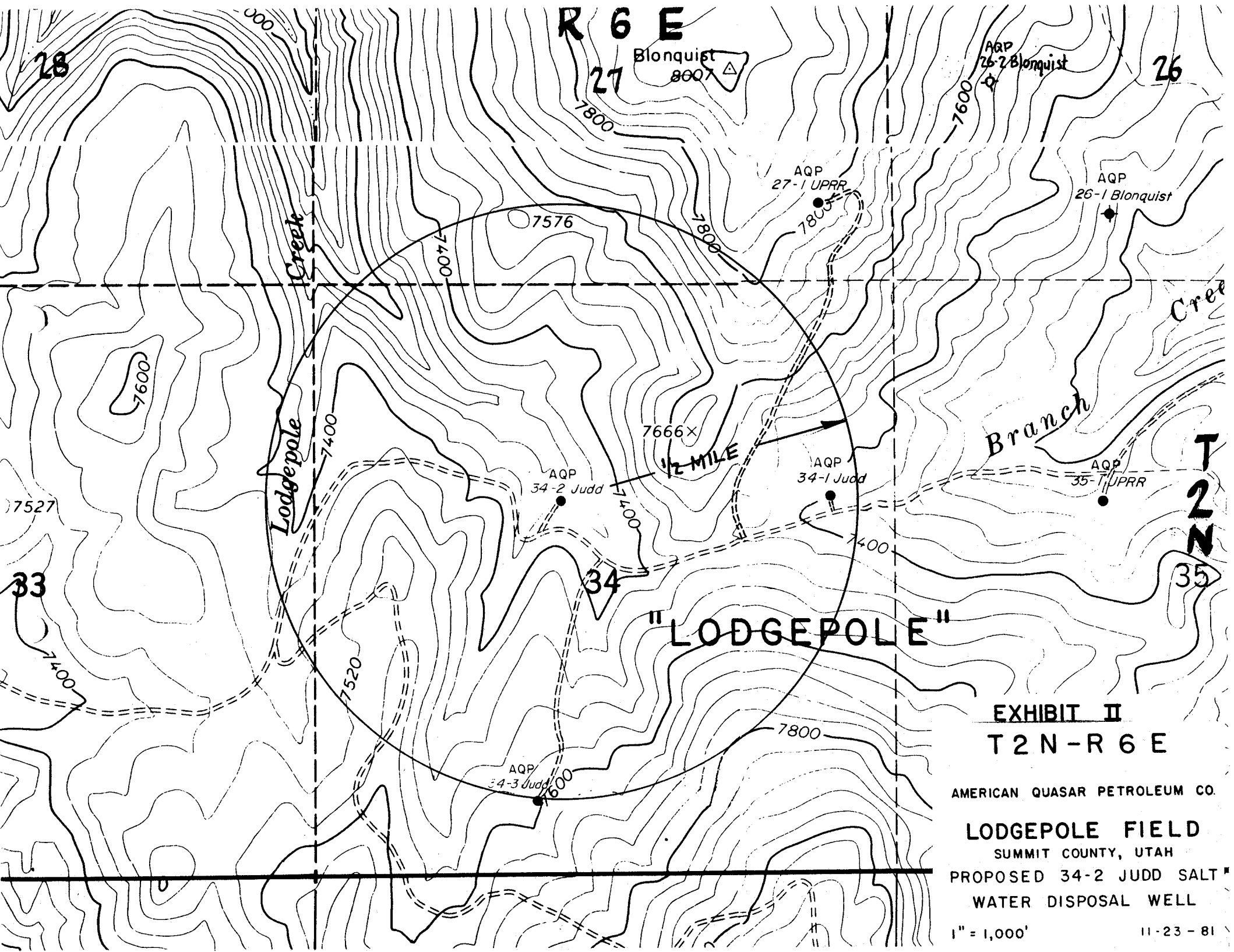


EXHIBIT II

T2N-R6E

AMERICAN QUASAR PETROLEUM CO.

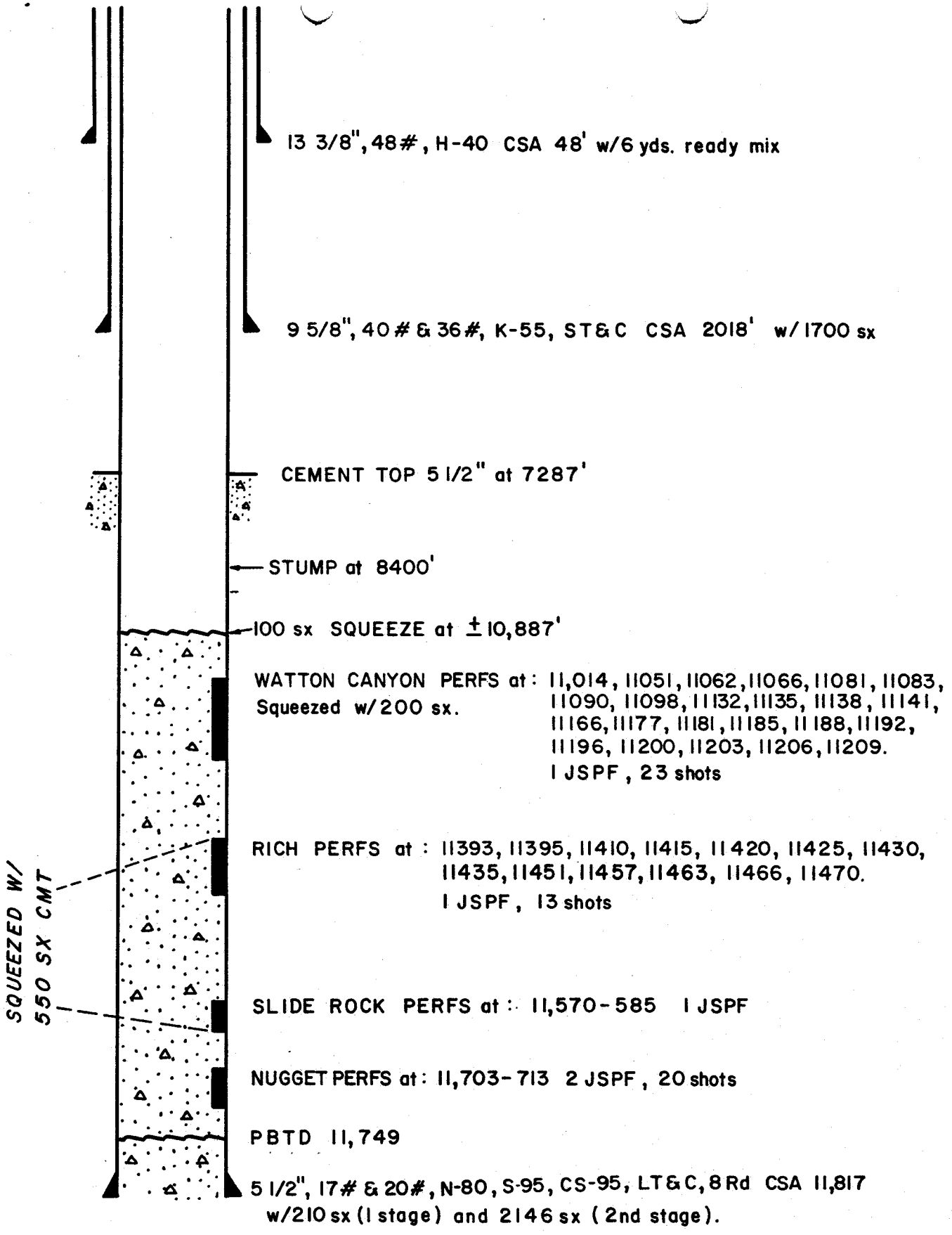
LODGEPOLE FIELD

SUMMIT COUNTY, UTAH

PROPOSED 34-2 JUDD SALT WATER DISPOSAL WELL

1" = 1,000'

11-23-81



LOCATION: 1979 fnl, 2163 fwl, sec. 34,
T 2 N - R 6 E SUMMIT CO, UTAH

ELEVATION: 7371 gr, 7387 KB

EXHIBIT V

AMERICAN QUASAR PETROLEUM CO.

JUDD 34-2 WELL BORE DIAGRAM

NO SCALE 11-30-81

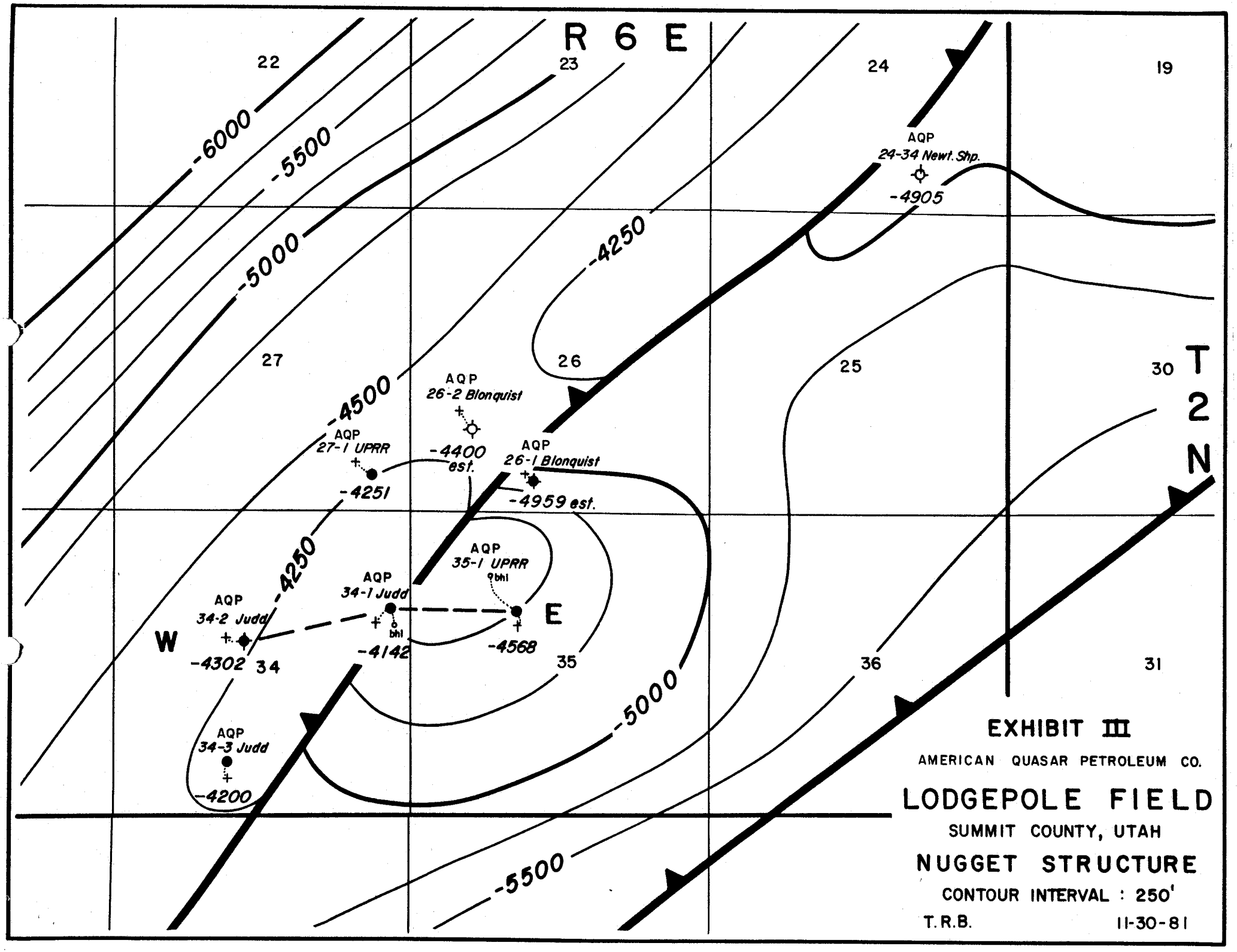


EXHIBIT III

AMERICAN QUASAR PETROLEUM CO.

LODGEPOLE FIELD

SUMMIT COUNTY, UTAH

NUGGET STRUCTURE

CONTOUR INTERVAL : 250'

T.R.B. 11-30-81

EXHIBIT VII

TABLE OF CURRENT RATES AND CUMULATIVE PRODUCTION

Well Name	Formation	Current Production (10/81)		Cumulative Production	
		BOPD	BWPD	BO	BW
Judd 34-2	Nugget	70	361	132,875	139,821
Judd 34-2	Twin Creek	Temporarily Abandoned			
Judd 34-3	Nugget	29	285	55,850	124,271
UPRR 27-1	Nugget	47	539	37,515	154,971
UPRR 35-1	Twin Creek	49	-0-	39,056	3,527
Total		195	1,185		

JUDD 34-2

LISTING OF LESSEES OF RECORD ONE HALF MILE
FROM PROPOSED DISPOSAL WELL

Champlin Petroleum/Union Pacific Railroad
Division Engineer, Outside Operated
P.O. Box 1257
Englewood, Colorado 80110

Amoco Production Company
1670 Broadway
Denver, Colorado 80202
Attn: Division Production Manager

North Central Oil Company
Attn: Milt Standley
6001 Savoy, Suite 600
Houston, Texas 77036

Sun Production Company
Attn: Lloyd Beck
P.O. Box 2800
Dallas, Texas 75221

Leon M. Judd
RFD
Coalville, Utah 84017

EXHIBIT VI

WELL COMPLETION OR RECOMPLETION REPORT

AND

WATER ANALYSES

90 70A

LASS II FILE NOTATIONS
* * * * * * * * * * * *

DATE FILED: 4-4-82 OPERATOR: American Quasar WELL NO. Judd 34-2

Location: Sec. 34 T. 2N R. 6E QRT/QRT: SENW County: Summit

New Well? _____ Conversion? _____ Enhanced Recovery _____ Disposal X

Gas Injection _____

****

Surety/Bond? Yes Completed DOGM-UIC-1? X Completed DOGM-UIC-2? _____

Card Indexed? Yes API NUMBER 43-043-30061

****

APPLICATION FILE COMPLETION

Plat Identifying Surface Owner(s): X Cement Bond Log ~~Required~~? Yes

Electric Log and/or Radioactive Log: Yes

Schematic Diagram Showing:

Total Depth or Plug-Back Depth: PBTD 11,749' T.D. 11,817'

Depth of Injection or Disposal Interval: 8600'-8750'

Geological Name of Injection or Disposal Zone: Stump

Depths of Casing & Cement: Top 7287 Bottom 11,817

Size of: Casing 5½" Tubing 2⅞ @ 9939 Depth of Packer Retrievable packer on tubing 2⅞"

Maximum Injection Pressure: 2500 psi Maximum Surface Injection Rate: 1400 BPD

Assessment of presently existing Cement Bond between the Casing & Formation:

Good: X Poor: _____ Location of Bottom Hole: _____

CHECKED BY: UIC SPECIALIST: We need a directional survey to find footage of bottom hole location

UIC ENGINEER: _____

Application Complete/Notice Published? _____ Date _____

DIRECTOR: Approved _____ Approval Letter Written? _____
Requires Hearing? _____

AMERICAN QUASAR PETROLEUM CO.
OF NEW MEXICO
707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.
TELEPHONE (303) 861-8437

December 29, 1981

RECEIVED
JAN 4 1982
DIVISION OF
OIL, GAS & MINING

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

Attention: Mr. Cleon B. Feight, Director

Subject: Application to convert the Judd 34-2 to Water Disposal Well
SE¼ NW¼ Sec. 34, T2N-R6E, Summit County, Utah

Gentlemen:

American Quasar Petroleum Co. requests approval to convert the Judd 34-2 to a water disposal well in the Stump formation. The well was drilled in 1979 as step-out well, tested non-commercial in the Twin Creek and has been shut in since that time. As requested in Rule I-1 "Underground Injection Criteria and Standards", the following exhibits in support of this application are listed on the attached Sundry Notice:

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Exhibit II - Topographic Map and Existing Roads
Exhibit III - Geologic Structure Map
Exhibit IV - Geologic Cross-Section
Exhibit V - Well Bore Diagram - Judd 34-2 (current)
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Exhibit VII - Current and Cumulative Production Table
Exhibit VIII - Proposed Completion Prognosis - Judd 34-2
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Exhibit X - Water Injection System Schematic

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The top of the Stump formation is 8400' (-1013' Subsea) and the base of the Stump is 8808' (-1421' Subsea). American Quasar requests approval for disposal of the produced waters into the interval from 8600' (KB) to 8750' (KB). A proposed completion prognosis (Exhibit VIII) outlines the details of the proposed conversion. The attached Acoustic Cement Bond Log shows excellent cement bond over this interval and the cement top behind the 5½" casing is 7287' KB (Exhibit IX). The excellent cement bond should preclude any uphole contamination. In addition, there is no offset production in the Stump formation within the Lodgepole Field.

The produced waters from the Judd 34-1, Judd 34-3, UPRR 27-1 and UPRR 35-1 (operated by American Quasar) will be injected into the Stump formation in the Judd 34-2. Exhibit VII shows the current daily rate, the producing formation and the cumulative production for these wells. The current daily water production is approximately 1100 to 1300 BWPD. The water cut in the producing wells is expected to increase, similar to our experience with the Pineview Field wells, and the maximum daily water injection is not forecast to exceed 1400 BWPD. The maximum injection pressure will be 2500 psi.

We have designed the proposed disposal system to safely handle 1400 BWPD and have provided 3000 barrels storage (Exhibit X). Our field personnel check each producing location twice a day. The proposed system will be incorporated into the daily monitoring schedule to insure maximum pressures are not exceeded. Reports to the Board of Oil, Gas and Mining will be submitted in accordance with Rule I-1 Section M.

American Quasar would appreciate administrative approval of this request to avoid delays associated with having a hearing based on the following reasons:

1. Lodgepole Field is proximal to Pineview Field, in which the Division of Oil, Gas and Mining Staff was given authority to take administrative action by the Board (Order for Cause 160-14, Application for Water Disposal, Pineview Field).

2. The waters to be injected are from the same formations (Nugget and Twin Creek) and of similar composition (see Water Analysis Exhibit VI).

3. The proposed disposal formation, the Stump, is the same formation used for disposal at Pineview.

4. One well is producing at its economic limit and another well is very near to the economic limit, due to the expense of trucking water to a suitable disposal site.

American Quasar will be glad to provide any additional information you might require as soon as possible.

Very truly yours,

Jim Brown

James T. Brown
Division Production Manager

JTB:sb
attachments

JUDD 34-2

LISTING OF LESSEES OF RECORD ONE HALF MILE
FROM PROPOSED DISPOSAL WELL

Champlin Petroleum/Union Pacific Railroad
Division Engineer, Outside Operated
P.O. Box 1257
Englewood, Colorado 80110

Amoco Production Company
1670 Broadway
Denver, Colorado 80202
Attn: Division Production Manager

North Central Oil Company
Attn: Milt Standley
6001 Savoy, Suite 600
Houston, Texas 77036

Sun Production Company
Attn: Lloyd Beck
P.O. Box 2800
Dallas, Texas 75221

Leon M. Judd
RFD
Coalville, Utah 84017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
1860 LINCOLN STREET
DENVER, COLORADO 80295

RECEIVED
FEB 05 1982
DIVISION OF
OIL, GAS & MINING

FEB 03 1982

Ref: 8WM:DW

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

Dear Mr. Spencer:

This letter will serve to confirm our telephone conversation of January 25th. We have given a preliminary technical review of the two, Class II, well applications attached with Thalia Pratt's letter of January 6. Although EPA does not have specific guidelines for UIC permit review, we have tried to identify what we feel are the deficiencies in the application. Our comment follows:

American Quasar Petroleum Co.:

The application should include information on the following:

1. A discussion of the water quality in the stump formation as it is the intended injection formation.

2. A discussion of the water quality above the Kelvin. This should include the identification of any USDW's.

3. A list of water wells in the area.

4. The justification for a 2500 PSI injection pressure limitation. What information is available to come up with this limitation?

5. Identification of the bottom of cement in the surface casing.

6. Geophysical logs, cement bond log and geologic cross sections.

7. A discussion concerning mechanical integrity testing and/or pressure monitoring.

8. A discussion as to whether or not the land lease holders were notified.

Energy Reserves Group, Inc.:

The application should include the following:

1. A discussion of the water quality overlying the injection horizon.

2. Geologic cross sections, geophysical logs and a cement bond log.

3. A discussion of the condition of the abandoned well.

4. A discussion of the storage facilities at the site.

5. A plan view of the site.

6. A list of water wells in the area.

7. A discussion as to whether or not the land/lease holders were notified.

8. A discussion as to why surface casing was set to 495 feet.

9. A discussion concerning mechanical integrity and/or pressure monitoring.

As a final note we are curious as to how you verify that no additional abandoned wells are in the injection area.

In the future, when our schedule allows, we are certainally willing to review selected permits and we encourage a continued rapport on this matter. If you have any questions concerning this letter, please do no hesitate to call me at (303) 837-2731.

Sincerely yours,

Michael Kuntz

Michael Kuntz,
Hydrologist

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 8, 1982

James T. Brown
Division Production Manager
American Quasar Petroleum Co.
707 United Bank Tower
1700 Broadway
Denver, Colorado 80290

RE: Application to convert the Judd 34-2 to a Water Disposal Well SENW Sec 34, T2N-R6E, Summit Co.

Dear Mr. Brown:

The Division of Oil, Gas and Mining has reviewed your request for approval to convert the Judd 34-2 to a water disposal well in the Stump Formation. The Division does not in fact approve your construction of the well but does approve your application to inject which depends upon the construction of the well. Because of recent rule changes made at the request of the U.S. Environmental Protection Agency, this Division had to schedual another hearing to revise certain rules in order to meet the requirements for submittal of our Primacy Application for Class II wells. Therefore, the following items have been found incomplete concerning your application:

Pursuant to Rule I-5(a) most of the information required on DOGM UIC-1 has been provided however the applicant should use this review opportunity to fill out this form (attached) completely adhearing to the instructions provided.

2 Pursuant to Rule I-5(b)(4) requires information showing that injection into the proposed zone will not extend laterally to the fault and enter the fresh water refered to in the testimony made to the board (Cause No. 160-14, June 26, 1979) as existing above 3000 feet. The applicant is required to provide data concerning the porosity,

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

transmissivity, lithology and rock properties of the injection zone and confining strata. The data must demonstrate that the proposed maximum surface injection pressure combined with the pressure of the well's hydrostatic head above the injection zone results in a pressure at the injection zone which is less than that pressure which could initiate fractures in the confining strata and enable the injection fluid or the formation fluid to enter a USDW. Additionally the applicant must show that at an injection rate of 1400 BPD that the stump formation has the capacity to contain the injected fluids for the life of the well without the injected fluids migrating up the fault into any Underground Source of Drinking Water. The applicant should provide justification for the choice of a maximum 2500 psi pressure.

3 It is assumed that the plat provided has listed all surface owners and adjacent lease hold interests are under AQP control. In this case the applicant must state that surface owner notification is not applicable.

4 The applicant should state that no water well, abandoned, producing or drilling well and dry hole, within one-half mile of the Class II injection well has been shown on the plat.

5 Since the Division has initiated a new well completion form DOGM UIC-2, the Division would appreciate the applicant using this opportunity to go ahead and fill it out for Judd 34-2. The Division acknowledges that the applicant has provided the existing well completion form OGC-3.

6 The schematic diagram should include the final configuration of the injection well including the tubing and packer etc.

7 Pursuant to proposed Rule I-5(b)(5)(i) the applicant must provide a proceedure for controlling injection rates and pressures such as a relief valve, regulator or other pressure control device.

8 The applicant should review the available information on the lateral extent, and depth to the top and bottom of all underground source of drinking water (less that 10,000 mg/l TDS) which could potentially be affected.

9 Pursuant to proposed Rule I-5(b)(6), the applicant should prepare contingency plans to cope with all shut-ins or well failures so as to prevent migration of polluting fluids into any underground source of drinking water.

10 Pursuant to proposed Rule I-5(b)(8), the applicant should provide the actual injection procedure.

11 Pursuant to proposed Rule I-5(g), the application shall be verified under oath, by a responsible official of the applicant, that the information contained in the application is true and correct to the best of the official's information and belief.

12 It is understood the applicant will provide the Division the opportunity to witness the swab from the injection zone to provide a quality analysis of the formation water. The applicant should provide a

sample of this water to the Division as well as the analysis. It is hoped the Division can witness this test with advanced notice. The Division representatives would like the opportunity to also witness the pressure tests.

13 The applicant should provide an expanded discussion of the mechanical integrity testing required prior to injection.

After receipt of this information the Division will publish a notice requiring a 15 day comment period. Assuming that no comments or concerns trigger any further Division or Board action, the well could be approved as provided by the Divisions UIC program as submitted to EPA. Please do not hesitate to call Mrs. Thalia Pratt at (801) 533-5771 should you have any concerns or questions.

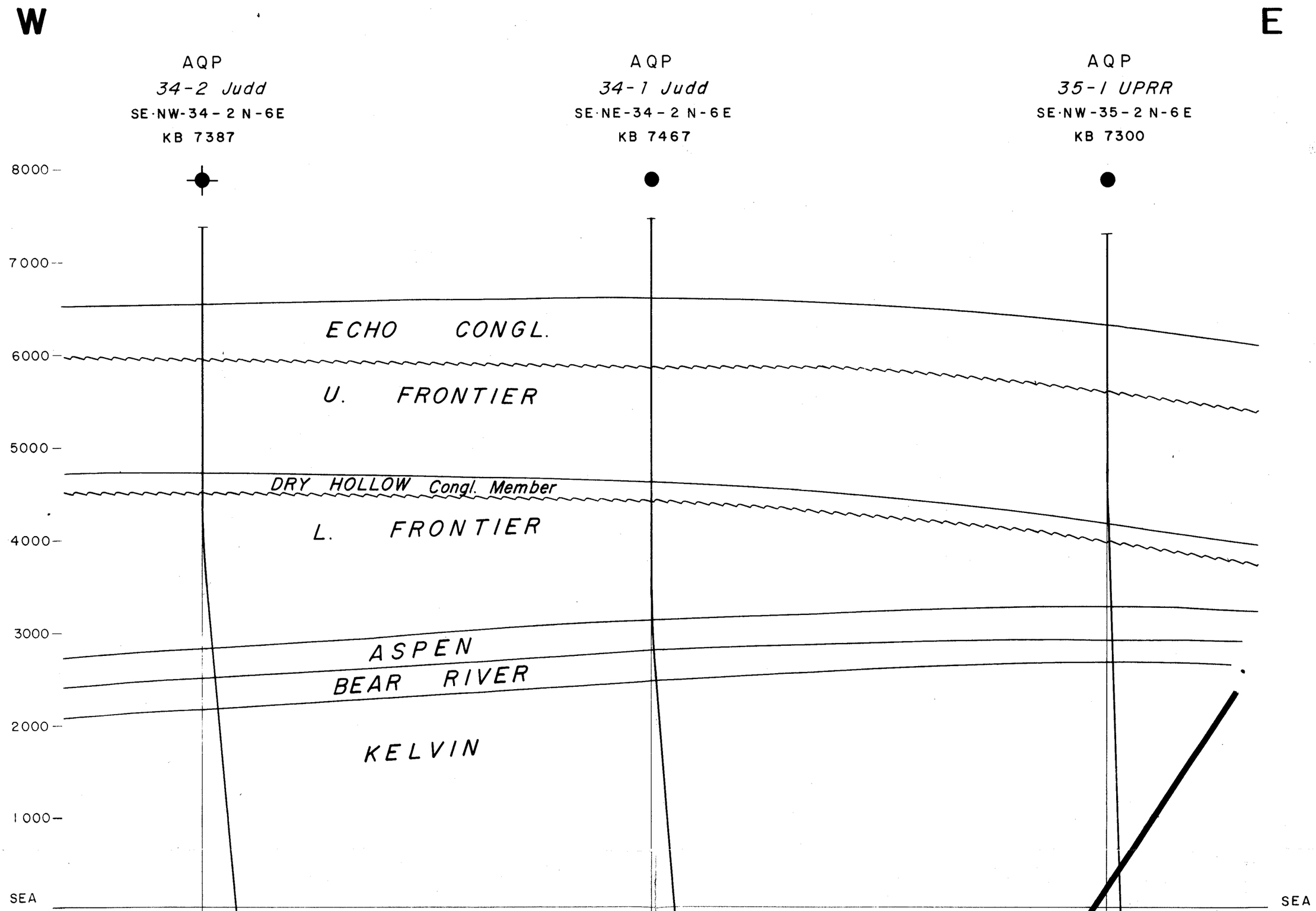
Yours Truly,

Thalia R. Pratt

Thalia R. Pratt, UIC Specialist

TRP/tp

Attachments: Regulations
Forms
EPA letter


W
E
AQP
34-2 Judd
SE·NW-34-2 N-6E
KB 7387
AQP
34-1 Judd
SE·NE-34-2 N-6E
KB 7467
AQP
35-1 UPRR
SE·NW-35-2 N-6E
KB 7300
8000
7000
6000
5000
4000
3000
2000
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SEA
SEA
ECHO CONGL.
U. FRONTIER
DRY HOLLOW Congl. Member
L. FRONTIER
ASPEN
BEAR RIVER
KELVIN

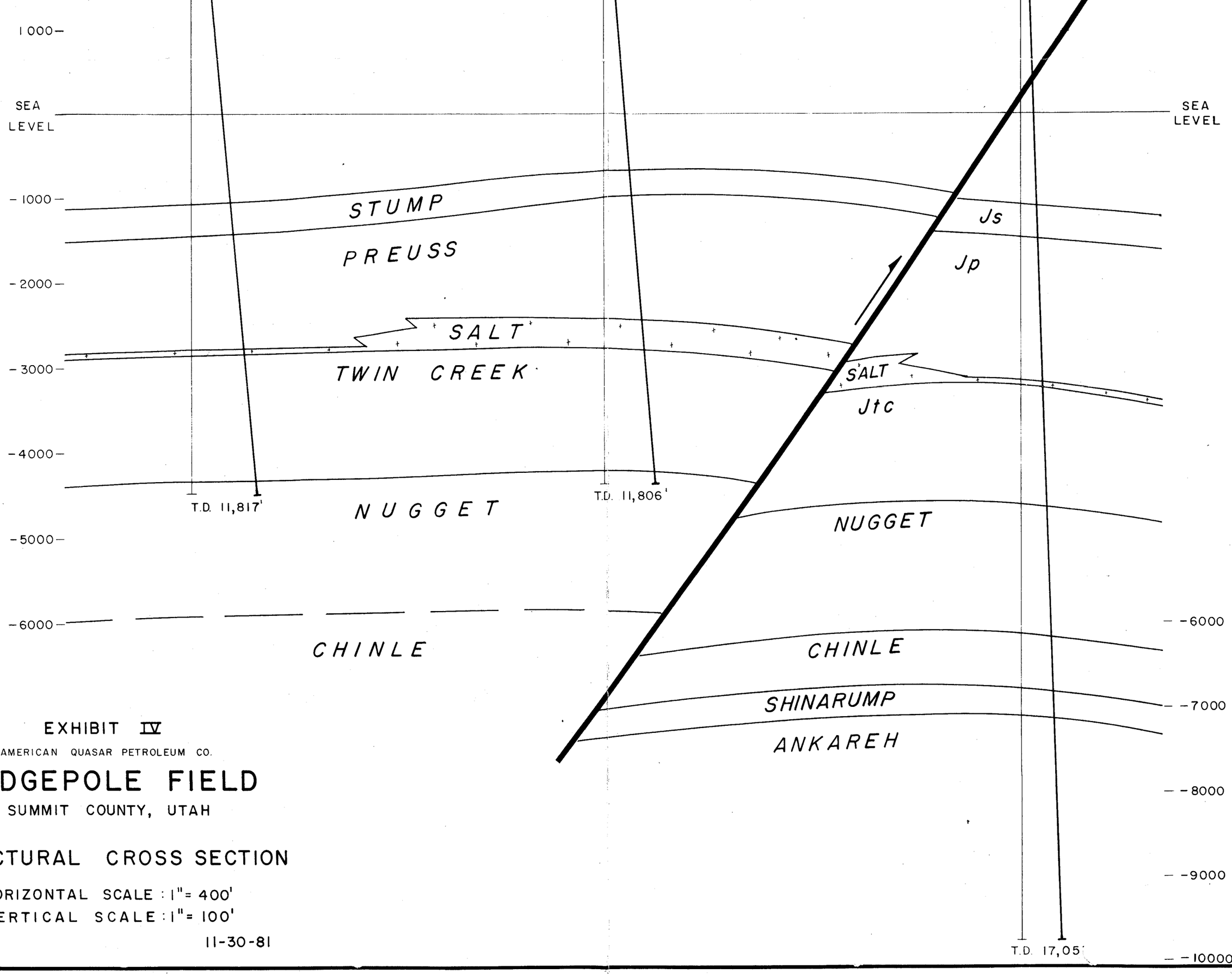


EXHIBIT IV

AMERICAN QUASAR PETROLEUM CO.

LODGEPOLE FIELD

SUMMIT COUNTY, UTAH

STRUCTURAL CROSS SECTION

HORIZONTAL SCALE : 1" = 400'

VERTICAL SCALE : 1" = 100'

T.R.B. 11-30-81

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

FORM NO. DOGM-UIC-1

IN THE MATTER OF THE APPLICATION OF
American Quasar Petroleum Co.
ADDRESS 707 United Bank Tower, 1700 Broadway, Denver, Colorado ZIP 80290
INDIVIDUAL ___ PARTNERSHIP ___ CORPORTATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE Judd 34-2 WELL
SEC. 34 TWP. 2N RANGE 6E
Summit COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL ☐
DISPOSAL WELL ☐

APPLICATION

Comes now the applicant and shows the Division the following:
1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name	Well No.	Field	County
Judd	34-2	Lodgepole	Summit

Location of Enhanced Recovery Injection or Disposal Well SE¼NW¼ Sec. 34 Twp. 2N Rge. 6E

New Well To Be Drilled Yes ☐ No ☒
Old Well To Be Converted Yes ☒ No ☐
Casing Test Yes ☒ No ☐ Date During workover

Depth-Base Lowest Known Fresh Water Within ½ Mile 3000'
Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile YES ☐ NO ☒
State What --

Location of Injection Source(s) See attached Exhibit I
Geologic Name(s) and Depth of Source(s) Twin Creek(-3500'elev) Nugget (-4500'elev)

Geologic Name of Injection Zone Stump formation
Depth of Injection Interval 8628 to 8730

a. Top of the Perforated Interval: 8628'
b. Base of Fresh Water: 3000'
c. Intervening Thickness (a minus b) 5628'

Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO

Lithology of Intervening Zones Below: Preuss, shale @8808(-1421)to 10150(-2763)approx.1342 confinement Above: Kelvin shale/sltst @4825(+2562)to 8400(-1013)approx 3575 of confinement above.

Injection Rates and Pressures
Maximum 1400 B/D
2500 PSI

The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent

Amoco Production, 1600 Broadway, Denver, CO 802020, Champlin Petroleum Corp, P.O. Box 1257, Englewood, CO 80110, Sun Production Company, P.O. Box 2880, Dallas, TX 75221, North Central Oil, 6001 Savoy, Ste. 600, Houston, TX 77036 Mr. Leon Judd, General Delivery, Hoytville, UT 84017

State of Colorado)
County of Denver)

American Quasar Petroleum Co.
Applicant

Before me, the undersigned authority, on this day personally appeared James T. Brown James T. Brown 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.

Subscribed and sworn to before me this 2nd day of March, 19 82

SEAL

Sara Beth Blanchard
Notary Public in and for City and County of Denver

My commission expires 9/15/82

(OVER)

INSTRUCTIONS

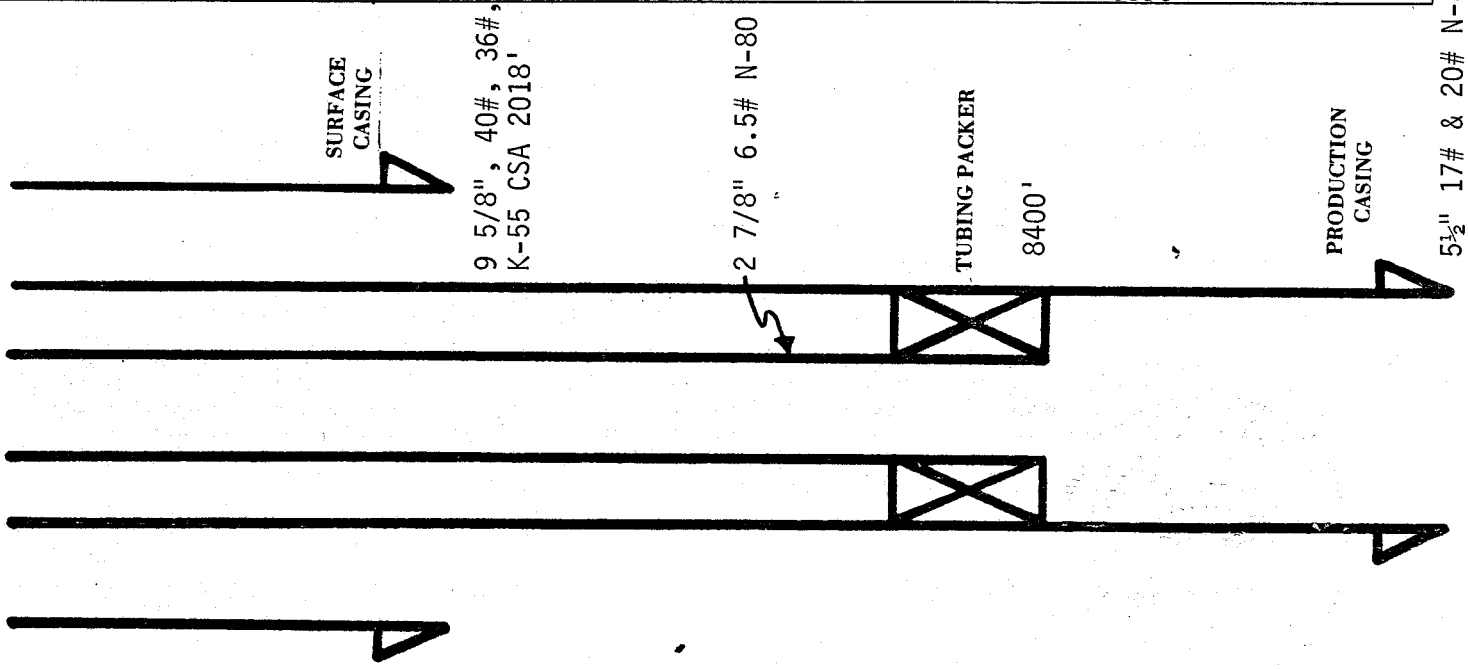
1. Attach qualitative and quantitative analysis of fresh water from 2 or more producing wells within 1 mile of injection well showing location of wells and date samples were taken, or statement as to why samples were not submitted.
2. Attach qualitative and quantitative analysis of representative sample of water to be injected.
3. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within ½ mile, together and with name of operator.
4. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division.)
5. Attach Electric or Radioactivity Log of Subject well (if released).
6. 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.
7. The original and 6 copies of application, and one complete set of attachments shall be mailed to the Division.
8. Deliver 1 copy of application to landowner on whose land injection well is located and to each operator of a producing leasehold within ½ mile of injection well.
9. Affidavit of mailing or delivery shall be filed not later than five days after the application is filed.
10. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county in which the well is located. The Division shall file proof of publication before the application is approved. The notice shall include 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 will be approved administratively.
11. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed September 1st, each year.
12. 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.
13. If there is less intervening thickness required by Rule I-5 (b) 4 attach sworn evidence and data.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9 5/8"	2018'	1700 sx	surface	Cemtd to sfc w/1"tbg
Intermediate					
Production	5 1/2"	11,817'	1st - 210 sx 2nd - 2146 sx	7287'	Cemt. Bond Log
Tubing Proposed	2 7/8"	±8400	Name - Type - Depth of Tubing Packer Baker R-3 Double Grip		

Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval
10,887'	Stump	8628'	8690'

SKETCH - SUB-SURFACE FACILITY



FORM DOGM-UIC-2
(Rule I-5 (b) 2

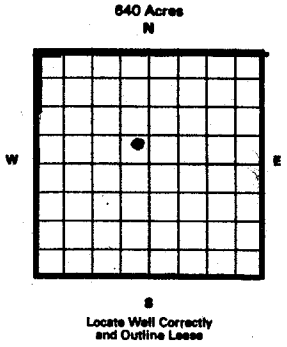
PLEASE TYPE OR USE BLACK INK ONLY

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

FEE
COUNTY LEASE NO.

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

API NO



COUNTY Summit SEC. 34 TWP. 2N RGE. 6E
COMPANY OPERATING American Quasar Petroleum
OFFICE ADDRESS 707 United Bank Tower #707
TOWN Denver STATE ZIP Colorado 80290
FARM NAME Judd WELL NO. 34-2
DRILLING STARTED 9/26 19 78 DRILLING FINISHED 1/5 19 79
DATE OF FIRST PRODUCTION 7/24/79 COMPLETED 5/26/79
WELL LOCATED SE ¼ SE ¼ NW ¼
661 FT. FROM SL OF ¼ SEC. & 2163 FT. FROM WL OF ¼ SEC.
ELEVATION DERRICK FLOOR 7387' GROUND 7371'

TYPE COMPLETION

Single Zone _____ Order No. _____
Multiple Zone _____ Order No. _____
Comingled _____ Order No. _____
LOCATION EXCEPTION Order No. _____ Penalty _____

OIL OR GAS ZONES

Name	From	To	Name	From	To
Twin Creek	10,206	11,698			
Nugget	11,698	TD			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
13 3/8"	48#	H-40	48'	--	6 yds Redimix		Surface
9 5/8"	36 & 40#	K-55	2018'	1500	100	100	Surface
5 1/2"	20 & 17#	N80,S95 CS-95	11,817'		2146		7,288'

TOTAL DEPTH 11,817'

PACKERS SET DEPTH _____

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION	Twin Creek	Twin Creek	
SPACING & SPACING ORDER NO.			
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	Dry	Dry	
PERFORATED	Watton Canyon	Rich and	
		Slide Rock	
INTERVALS	11,014-209'	11,393-470'	
		11,570-585'	
ACIDIZED?	10,500 gal 28% HCl	6000 gal 28% HCl	
		1500 gal 28% HCl	
FRACTURE TREATED?	75M gal w/80M# 100 mesh	--	

INITIAL TEST DATA

Date	7/24/79		
Oil. bbl./day	20		
Oil Gravity	40.1		
Gas. Cu. Ft./day	6000 CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	300		
Water-Bbl./day	2		
Pumping or Flowing	Pumping		
CHOKE SIZE	--		
FLOW TUBING PRESSURE	--		

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

James T. Brown

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 James T. Brown, Div. Production Mgr.
Name and title of representative of company

Subscribed and sworn before me this 2nd day of March, 19 82.

1. All zones have been plugged and abandoned. See attached wellbore sketches. "Existing" and "Proposed".

2. Formations Drilled:

Name	Measured Depth
Wasatch	Surface
Echo	818'
Frontier	1404'
Aspen	4522'
Bear River	4866'
Kelvin	5196'
Stump	8400'
Preuss	8808'
Twin Creek	10,206'
Nugget	11,698'

Attachment to Application for Water Disposal
Judd 34-2 well,
March 2, 1982

Pursuant to Rule I-5(b)(4) the following information and discussion is provided concerning the proposed water disposal in the Stump formation in the Judd 34-2 well:

Formation Property	
Depth (elevation)	8400' (-1013')
Gross thickness	404'
Lithology	Interbedded shale, siltstone and sandstone
Average permeability (k)	29.9 MD(1)
Gross Injection Zone	8628 - 8730
Net Injection Footage (h)	70'
Average porosity (Ø %)	10.17%
Formation Temperature (°F)	155
Fracture Gradient (psi/ft)	.7599(2)
Specific gravity of injected water (S.G.)	1.04
Hydrostatic gradient of injected water (psi/ft)	.4515
Daily injection volume (BWPD)	1400
Formation volume factor for water (B_W)	1.0

A. Injection Pressure at the Stump Formation is calculated as follows:

$$P_1 = P_2 - P_3 + P_4 = (8600)(.4515) - 100 + 2500 = \underline{6283 \text{ psi}}$$ 94% of frac. pres.

Where:

P_1 = Injection pressure at formation
P_2 = Hydrostatic pressure
P_3 = Loss due to friction in tubing and across perforations
P_4 = Surface injection pressure

B. Fracturing pressure at the Stump formation is:

$$P_5 = (8600)(.7599) = \underline{6535 \text{ psi}}$$

C. Difference between proposed pressure and maximum:

$$P_5 - P_1 = \underline{252 \text{ psi below fracturing pressure}}$$

D. Volumetric calculations to show lateral extent of migration:

i) volume of water = $1400 \left(\frac{\text{bbl}}{\text{day}}\right) \times 365 \left(\frac{\text{day}}{\text{year}}\right) \times 2.5 \text{ year} = 1{,}277{,}500 \text{ bbls} = V_1$

---

(1) Based on weighted average of measured core permeability from the Newton Sheep 4-5S, NE¼ Sec. 4, T2N-R7E, Summit County, Utah.

(2) Based on fracturing data performed in the Twin Creek formation in Judd 34-2.

ii) Calculation of volume of Stump storage per acre:

$$V_2 = \emptyset \times h\ (ft) \times 43560 \left(\frac{ft^2}{acre}\right) \times \frac{1}{5.614}\left(\frac{bbl}{ft^3}\right) \times 1\ \frac{bbl}{bbl}$$

$$=(.1017)(70)(43{,}560)\left(\frac{1}{5.614}\right)(1) = 55{,}245\ \frac{bbl}{acre}$$

iii) Acres of Influence:

$$A = \frac{V1}{V_2} = \frac{1.2775 \times 10^6}{55{,}275} = \underline{23.12\ acres}$$

iv) Radius of Influence

$$r = \sqrt{\frac{(A)(43{,}560)}{\pi}} \qquad \sqrt{\frac{(23.12)(43{,}560)}{\pi}}$$

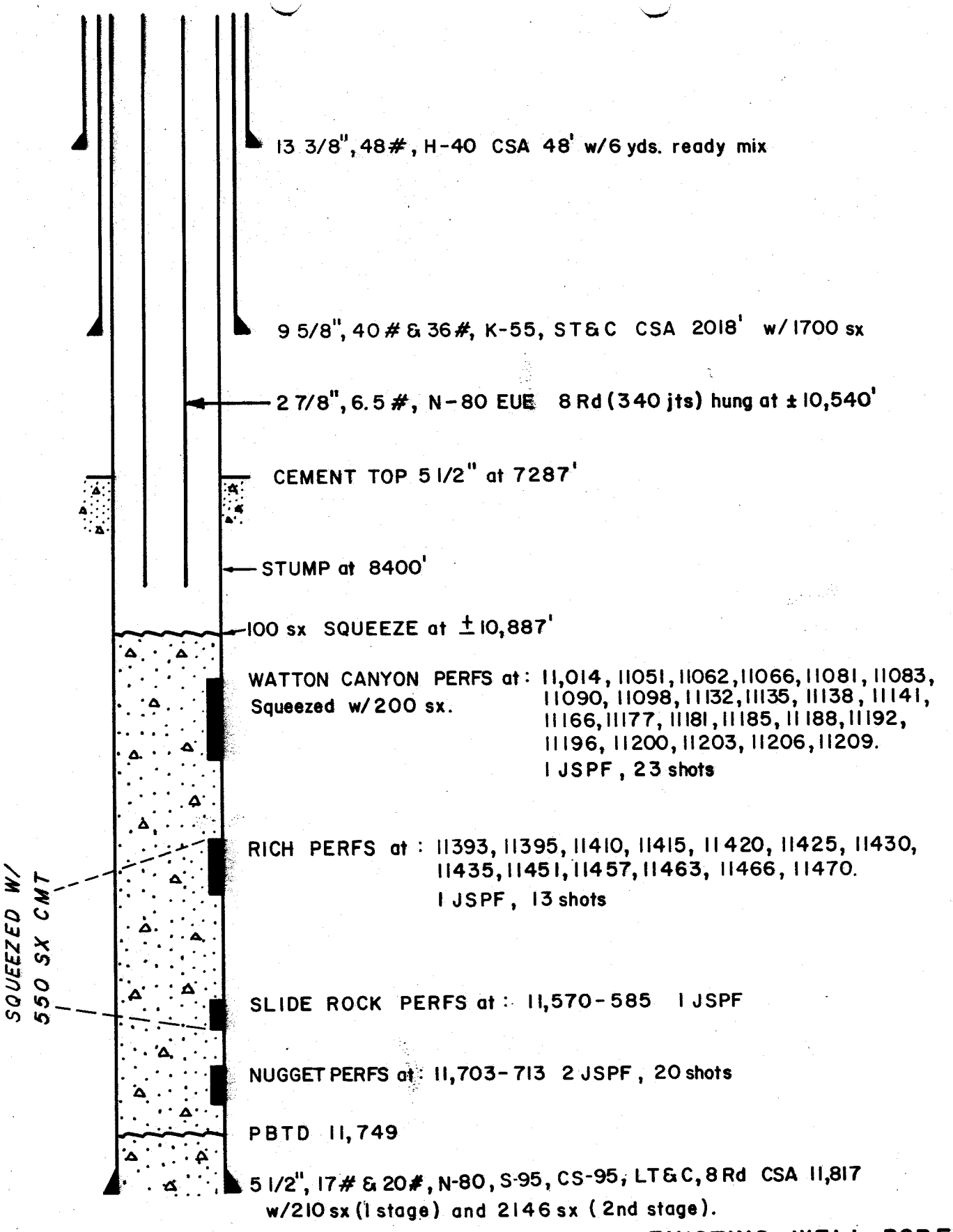
$$r = \underline{566\ feet}$$

E. Approximate distance east to fault = ±3400 feet (see cross section).

F. Injected fluids are not anticipated to reach the fault on the east side of Judd 34-2 and will be wholly contained in the Stump formation.

TABLE OF CURRENT RATES AND CUMULATIVE PRODUCTION

Well Name	Formation	Current Production (12/81)		Cumulative Production	
		BOPD	BWPD	BO	BW
Judd 34-1	Nugget	82	399	135,891	154,517
Judd 34-2	Twin Creek	Temporarily abandoned			
Judd 34-3	Nugget	32	404	57,800	146,575
UPRR 27-1	Nugget	57	712	39,198	178,584
UPRR 35-1	Twin Creek	33	-0-	40,829	3,556
	Total	204	1,515		



EXISTING WELL BORE

AMERICAN QUASAR PETROLEUM CO.

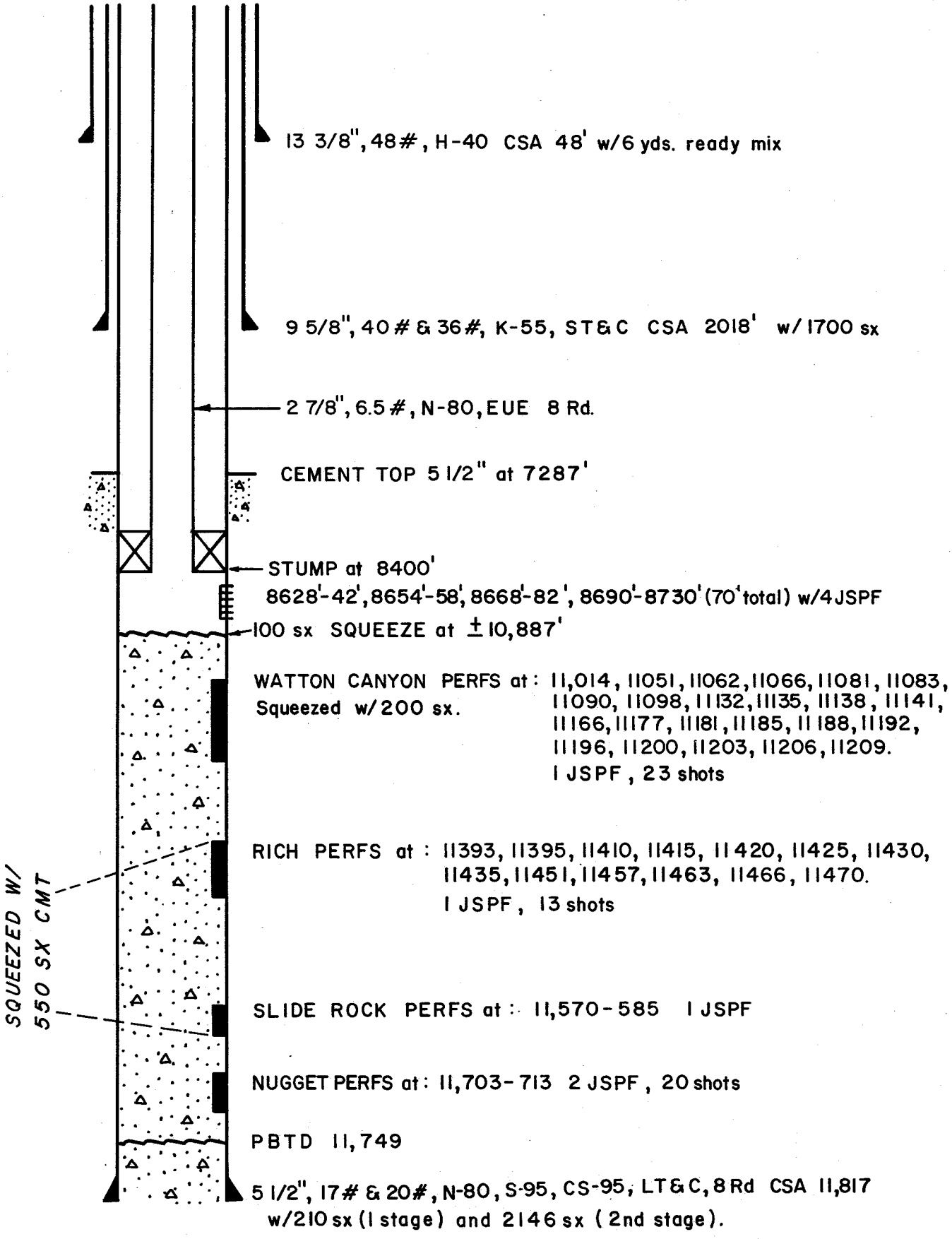
JUDD 34-2 WELL BORE DIAGRAM

NO SCALE

11-30-81

LOCATION: 1979 fnl, 2163 fwl, sec. 34,
T 2 N - R 6 E SUMMIT CO, UTAH

ELEVATION: 7371 gr, 7387 KB



PROPOSED DISPOSAL WELL BORE

AMERICAN QUASAR PETROLEUM CO.

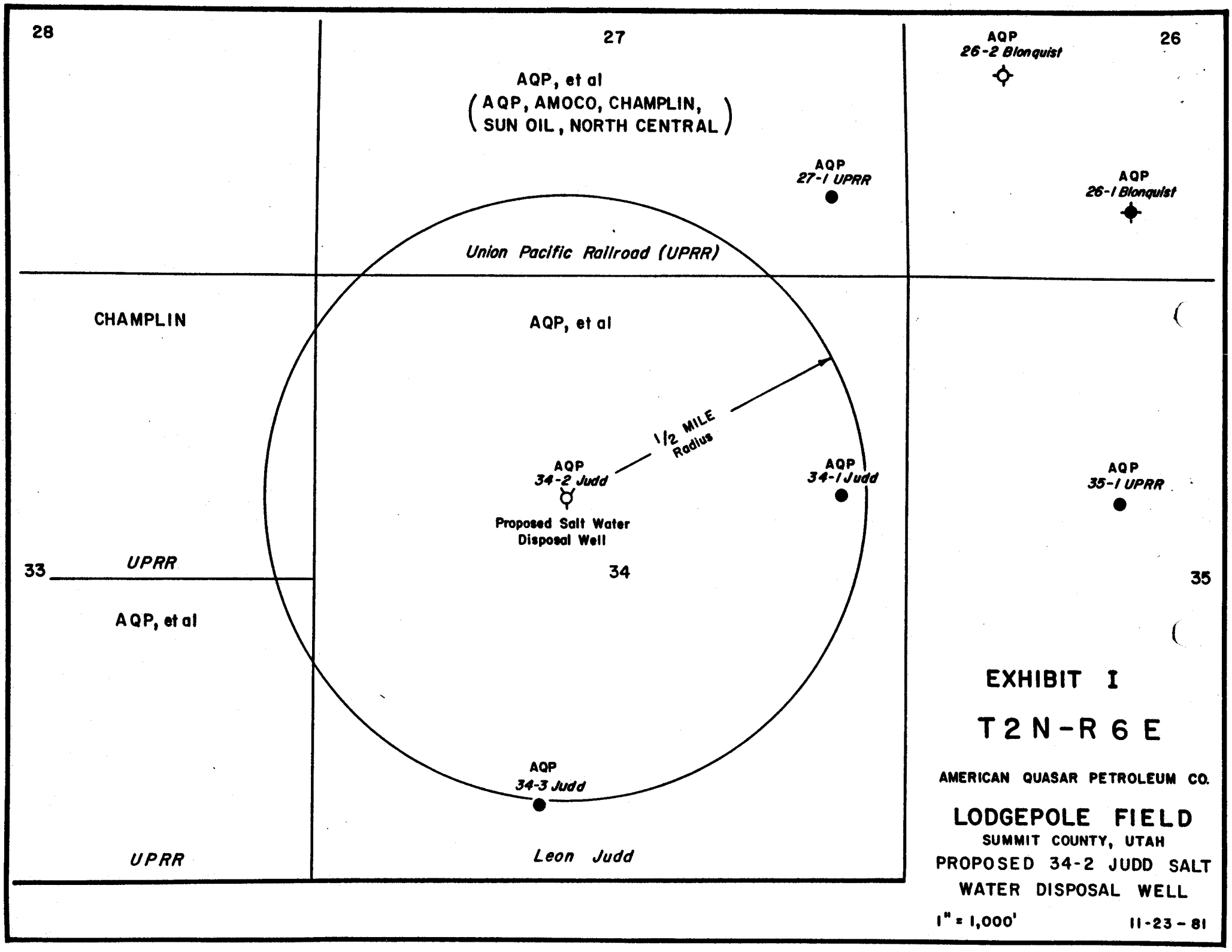
JUDD 34-2 WELL BORE DIAGRAM

LOCATION: 1979 fnl, 2163 fwl, sec. 34, T 2 N - R 6 E SUMMIT CO, UTAH

ELEVATION: 7371 gr, 7387 KB

NO SCALE

11-30-81


28
27
26
AQP, et al
(AQP, AMOCO, CHAMPLIN, SUN OIL, NORTH CENTRAL)
AQP
26-2 Blonquist
AQP
27-1 UPRR
AQP
26-1 Blonquist
Union Pacific Railroad (UPRR)
CHAMPLIN
AQP, et al
1/2 MILE Radius
AQP
34-2 Judd
AQP
34-1 Judd
AQP
35-1 UPRR
Proposed Salt Water Disposal Well
33
UPRR
34
35
AQP, et al
AQP
34-3 Judd
UPRR
Leon Judd
EXHIBIT I
T2N-R6E
AMERICAN QUASAR PETROLEUM CO.
LODGEPOLE FIELD
SUMMIT COUNTY, UTAH
PROPOSED 34-2 JUDD SALT WATER DISPOSAL WELL
1" = 1,000'
11-23-81

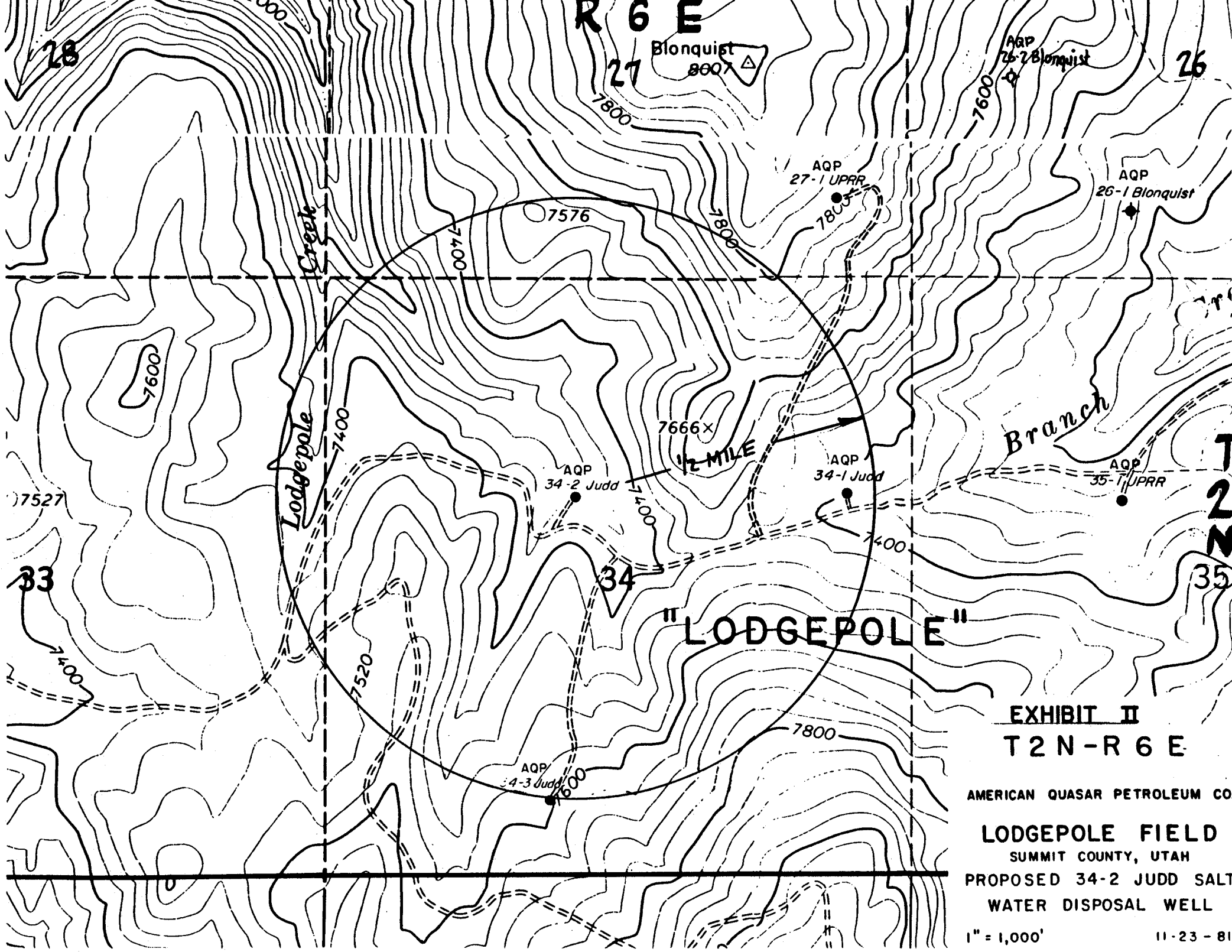


EXHIBIT II

T2N-R6E

AMERICAN QUASAR PETROLEUM CO

LODGEPOLE FIELD

SUMMIT COUNTY, UTAH

PROPOSED 34-2 JUDD SALT

WATER DISPOSAL WELL

1" = 1,000'

11-23-81

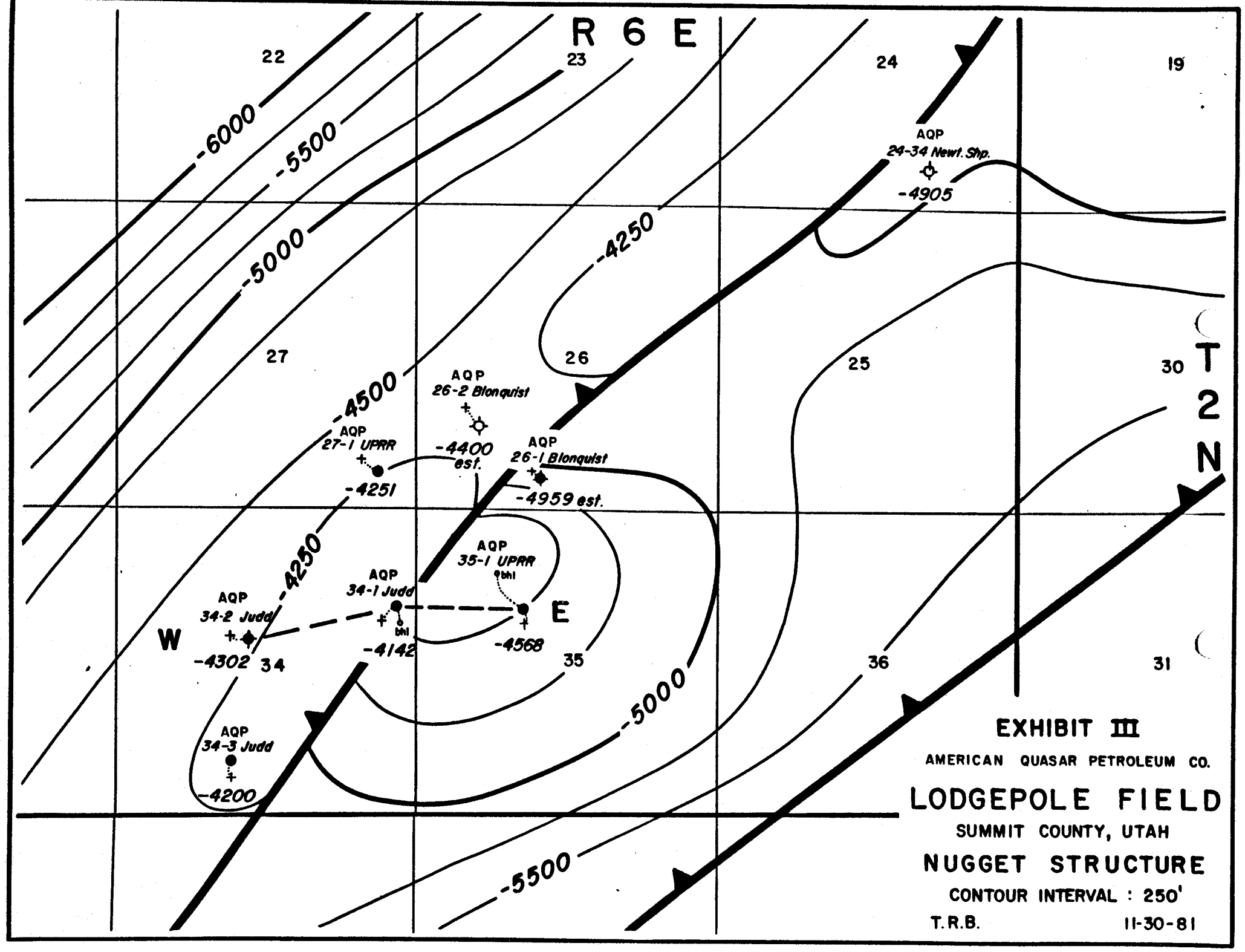


EXHIBIT III

AMERICAN QUASAR PETROLEUM CO.

LODGEPOLE FIELD

SUMMIT COUNTY, UTAH

NUGGET STRUCTURE

CONTOUR INTERVAL : 250'

T.R.B. 11-30-81

SCHEMATIC DIAGRAM

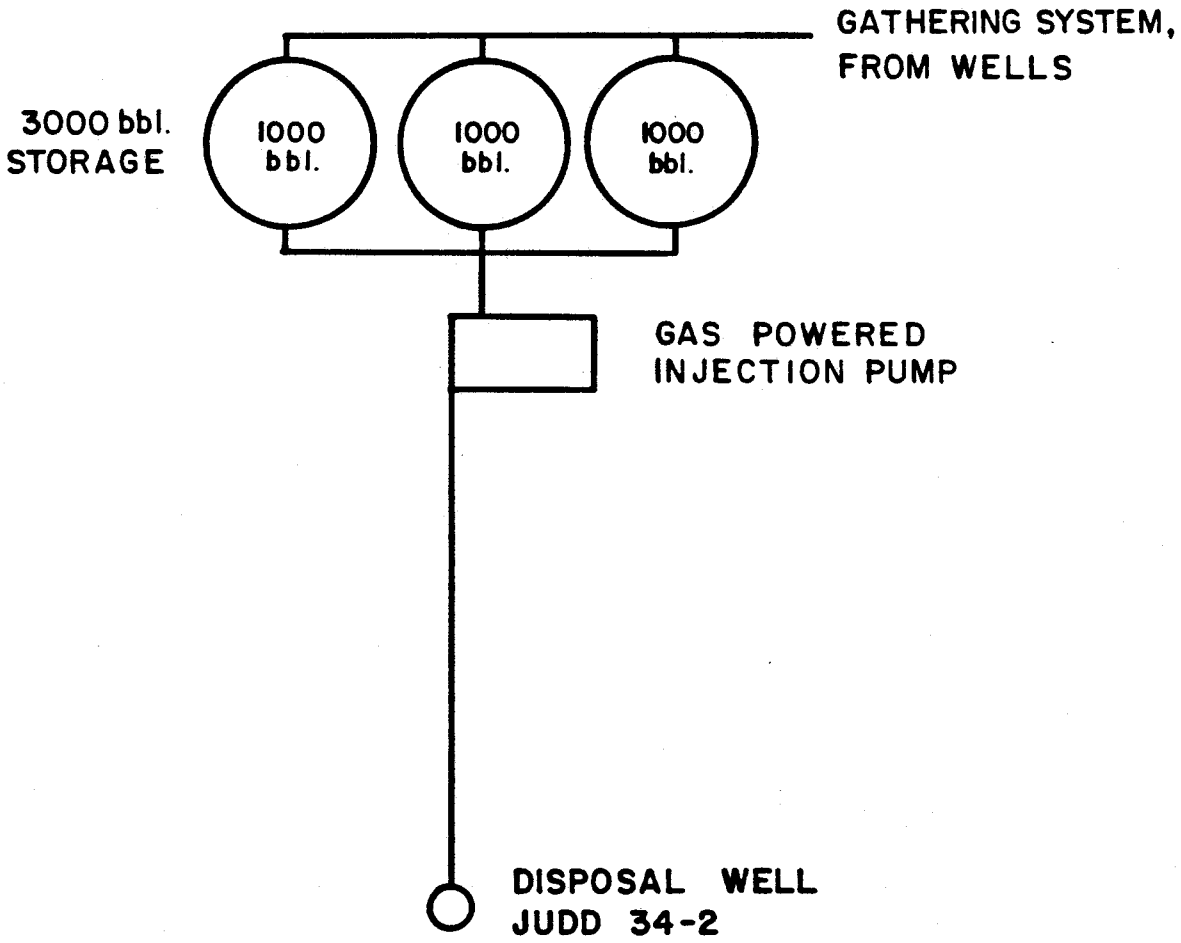


EXHIBIT X

AMERICAN QUASAR PETROLEUM CO.

LODGEPOLE DISPOSAL SYSTEM

SUMMIT COUNTY, UTAH

11-23-81

JUDD 34-2

CONVERSION TO WATER DISPOSAL

SECTION 34, T2N-R6E, SUMMIT COUNTY, UTAH

1. MIRU. Kill well if necessary and NU BOP's.

2. TOH w/tbg. TIH w/bit and scraper to ±8500'. Pressure test casing to 2500 psi. POH. Notify State of Utah of plans to test casing in advance (Tel. #801-533-5771 Attn: Thalia Pratt or Gilbert Hunt).

3. RU wireline company and perforate Stump intervals using 4" casing gun w/4 SPF:

8690-8730	(40')
8668-8682	(14')
8654-8658	(4')
8628-8642	(12')
	70' total

Depths refer to Schlumberger's Borehole Compensated Sonic log run 1/5/79. Dresser's Cement bond log with collar log, run 1/23/79, reads 1' shallow to Schlumberger log.

4. RIH w/retrievable pkr on 2 7/8" tbg. Break down formation w/rig pump. RU and swab to determine formation fluids. Catch samples of formation fluids for analysis. Notify State of Utah of plans to swab.

5. Acidize with 10,000 gals 15% HCl w/corrosion inhibitor. Drop 100 7/8" RCN (S.G = 1.1) ball sealers evenly spaced in last 2/3 of job. Max pump pressure 5000 psi. Overdisplace w/50 bbls treated produced water.

6. Kill well. POH w/tbg & pkr. TIH w/retrievable pkr on 2 7/8" internally coated tubing to ±8400'. Hydrotest to 2500 psi. Circ backside w/inhibited pkr fluid. Set pkr and test annulus to 2500 psi. ND BOP, NU wellhead, SI well until connection to disposal system complete. Notify State of Utah of plans to test casing-tubing annulus.

7. Place well on injection. Do not exceed 2500 spi injection pressure.

APPROVED Jim Brown DATE MARCH 2, 1982

CLASS II FILE NOTATIONS
* * * *

DATE FILED: _____ OPERATOR: American Quasar WELL NO. Judd 34-2

Sec. 34 T. 2N R. 6E QRT/QRT: SENW COUNTY: Summit

New Well? _____ Conversion? ✓ Disposal ✓ Enhanced Recovery _____

* * * * * * * *

SURETY/Bond? yes Card Indexed? yes API Number: 43-043-3006

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): 1 Operators : 1 water well(s) 0, abandoned well(s) 0, producing wells or drilling well(s) 1, dry holes Ø.

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

Schemetic diagram of Well: TD: 11,806, PBTD: 11,749, Depth of Inj/Disp interval: 8628-8730, geologic name of inj/dis interval Stump, Casing and cement: top Surface, bottom 2018', Size of: casing 13⅜ at 48' 9⅝ at 2018 7⅝ at 11817 tubing 2⅞ at 8400', depth of packer: 8400-. Assessment of existing cement bond: Excellent
Location of Bottomhole: SENW sec 34. MAXIMUM INJECTION RATE: 1400 B/d
MAXIMUM SURFACE INJECTION PRESSURE: 2500 PSI.

Proposed Operating Data:

Procedure for controlling injection rates and pressures: Switches & meters Dwight engineer
Geologic name: Stump, depth, 8400', location of injection fluid source. Analysis of water to be injected 44,771 tds, water of injection formation 80,200 tds., EXEMPTION REQUIRED? no.

Injection zone and confining zone data: lithologic description Siltst-sdst geologic name Stump, thickness 3575', depth 8400', lateral extent 566'

USDW's that may be affected by injection: geologic name None, lateral extent _____, depth to the top and bottom of all known USDW's 3000' Base.

Contingency plans? yes - adequate storage facilities.

Results of formation testing? Stump fracture gradient .7599 PSI/FT.
Description of mechanical integrity test CTA - 2500 PSI, injection procedure 1400 BPD - 2500 PSI max.

* * * * * * *

CHECKED BY: UIC ADMINISTRATOR: [signature]

UIC GEOLOGIST: _____

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

AMERICAN QUASAR PETROLEUM CO.
OF NEW MEXICO

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

March 2, 1982

RECEIVED
MAR 05 1982
DIVISION OF
OIL, GAS & MINING

State of Utah
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight, Director

Subject: Additional data in support of Water Disposal Application, Judd 34-2, SE¼ NW¼ Sec. 34, T2N-R6E, Summit County, Utah

Gentlemen:

The additional data and use of new form numbers DOGM-UIC-1 and DOGM-UIC-2 are provided in response to your letter dated February 8, 1982 concerning the proposed water disposal in the subject well. In reference to the 13 points listed in you letter, the following is provided:

1. Pursuant to Rule I-5(a), the original and six copies of DOGM-UIC-1 are attached. The additional data requested in the instructions on Form DOGM-UIC-1 has also been provided to your office (Instruction No. 5). Form DOGM-UIC-2 is provided as requested in Instruction No. 4. Two wellbore sketches are provided showing the "existing" wellbore and the proposed wellbore for disposal. The requested water analyses (Instruction No. 2) have already been provided. Instruction No. 1 requesting fresh water analyses "from 2 or more producing wells within one mile of" the injection well are not provided because none of the produced water is fresh and there are no known U.S.D.W. wells within one mile of the Judd 34-2.

2. A listing of the pertinent lithology, transmissivity and additional rock/reservoir properties is provided along with our calculations showing that 2500 psi qualifies a non-fracturing surface injection pressure. The calculations also show that the 70 foot zone in the Stump has sufficient storage to contain the injected volume during the 2½ year life of the project. The Stump is confined between the Kelvin shale (above) and the Preuss shale (below). The vertical confining distance of 3575 feet is adequate to prevent migration of displaced fluids upward.

3. We have already notified Mr. Judd of our intention to convert the subject well to water disposal.

4. There are no known water disposal wells within one-half mile of the Judd 34-2. All offset producing and abandoned wells are shown within one mile of the subject well.

5. Form DOGM-UIC-2 is attached and the information previously provided on form OGC-3 has been transcribed.

6. Two wellbore diagrams are provided showing the existing configuration of the Judd 34-2 and the final conficuration for injection.

7. High and low pressure shut-down switches (Murphy switches) will be installed on the injection pump to monitor injection pressure and shut down the system should high or low pressure problems occur. An injection turbine meter will be installed to meter the rate of injection and to record the volumes injected. record pressures?

8. No known U.S.D.W. sources could potentially be affected based on the depth of injection (8628 to 8730 feet) and the lateral extent of injection (566 feet).

9. Pursuant to rule I-5(b)(6), the operation of the Judd 34-2 as a disposal well is incorporated into our contingency plans to prevent migration to any U.S.D.W. The water storage facility can hold 2 days of produced water in the event a pump repair cannot be made during the daily checks by our pumpers.

10. Pursuant to Rule I-5(b)(8), the integrity of the wellbore, tubing string and packer will be tested to the 2500 psi proposed injection pressure during the completion operations (see attached Conversion to Water Disposal Prognosis). A schematic diagram is provided to show major equipment items to be used for injection.

11. Pursuant to Rule I-5(g), the applicant swears under oath, that this application is true and correct to the best of our ability.

12. The attached Conversion to Water Disposal Prognosis for the Judd 34-2 instructs our foreman to contact your office in advance to afford the opportunity to witness the casing and tubing pressure checks and the swab sampling of the Stump formation.

13. Prior to perforating the Stump formation, the entire casing will be tested to 2500 psi for 10 minutes. After perforating and setting the packer at ±8400 feet, the tubing will be hydrotested to 2500 psi while tripping into the well, and,

after seating into the packer, the tubing-casing annulus ~~annulus~~ will be tested to 2500 psi. All pressured injection pipe on the surface will be weld connection construction fabricated from schedule 160 extra heavy pipe. Fitted connections for ¼ inch pressure gauges with shut-off valves will be installed at the wellhead to monitor the injection string and annulus.

We trust this additional data and discussion meets the requirements for approval of this application for injection. Should you requre additional information, please do not hesitate to contact us at your earliest convenience.

Very truly yours,

James T. Brown

James T. Brown
Division Production Manager

JDD:sb
encl.

ADM-358

Affidavit of Publication

STATE OF UTAH.
County of Salt Lake } ss.

NOTICE OF HEARING
CAUSE NO. WD-104
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES AND ENERGY in and for the STATE OF UTAH
IN THE MATTER OF THE APPLICATION OF AMERICAN QUASAR PETROLEUM COMPANY FOR ADMINISTRATIVE APPROVAL TO DISPOSE OF SALT WATER INTO THE JUDD #34-2 WELL, SENW SECTION 34, TOWNSHIP 2 NORTH, RANGE 6 EAST, SUMMIT COUNTY, UTAH
THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS, AND TAKERS OF OIL AND GAS, AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH.
NOTICE IS HEREBY GIVEN that American Quasar Petroleum Company, 707 United Bank Tower, 1700 Broadway, Denver, Colorado, 80290, is requesting that the Division authorize the approval of the injection of salt water into a well as follows:
LEASE AND WELL: Judd #34-2
INJECTION ZONE AND DEPTH: Stump Formation, 8628'-8690'
INJECTION PRESSURE AND RATE: 1400 B/D, Maximum Pressure 2500 psi
This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen (15) days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas, and Mining, Room 4241 State Office Building, Salt Lake City, Utah.
DATED this 12th day of March, 1982.
STATE OF UTAH
BOARD OF OIL, GAS AND MINING
PAULA J. FRANK
Secretary of the Board
A-49

Shana D. Conaty

Being first duly sworn, deposes and says that he is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County in the State of Utah, and of the DESERET NEWS a daily (except Sunday) newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Pub notice of hearing Cause #WD-104 (American Quasar Petroeum Co.)

was published in said newspapers on March 18, 1982

Legal Advertising Clerk

Subscribed and sworn to before me this 18th *day of* March *A.D. 19*82.

Notary Public

My Commission Expires

June 1, 1985

ADM-35B

Affidavit of Publication

STATE OF UTAH.
County of Salt Lake } ss.

Shana D. Conaty

Being first duly sworn, deposes and says that he is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County in the State of Utah, and of the DESERET NEWS a daily (except Sunday) newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

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Shana D Conaty

Legal Advertising Clerk

Subscribed and sworn to before me this 18th *day of* March *A.D. 19*82.

Robert L. Standing

Notary Public

My Commission Expires

June 1, 1985

ADM-358

Affidavit of Publication

STATE OF UTAH.
County of Salt Lake } ss.

NOTICE OF HEARING
CAUSE NO. WD-104
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES AND ENERGY in and for the STATE OF UTAH
IN THE MATTER OF THE APPLICATION OF AMERICAN QUASAR PETROLEUM COMPANY FOR ADMINISTRATIVE APPROVAL TO DISPOSE OF SALT WATER INTO THE JUDD #34-2 WELL, SENW SECTION 34, TOWNSHIP 2 NORTH, RANGE 6 EAST, SUMMIT COUNTY, UTAH
THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS, AND TAKERS OF OIL AND GAS, AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH.
NOTICE IS HEREBY GIVEN that American Quasar Petroleum Company, 707 United Bank Tower, 1700 Broadway, Denver, Colorado, 80290, is requesting that the Division authorize the approval of the injection of salt water into a well as follows:
LEASE AND WELL: Judd #34-2
INJECTION ZONE AND DEPTH: Stump Formation, 8628'-8690'
INJECTION PRESSURE AND RATE: 1400 B/D, Maximum Pressure 2500 psi
This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen (15) days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas, and Mining, Room 4241 State Office Building, Salt Lake City, Utah.
DATED this 12th day of March, 1982.
STATE OF UTAH
BOARD OF OIL, GAS AND MINING
PAULA J. FRANK
Secretary of the Board
A-49

Shana D. Conaty

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That the legal notice of which a copy is attached hereto

Pub notice of hearing Cause #WD-104 (American Quasar Petroeum Co.)

was published in said newspapers on March 18, 1982

Legal Advertising Clerk

Subscribed and sworn to before me this 18th *day of* March *A.D. 19*82.

Notary Public

My Commission Expires

June 1, 1985

ADM-35B

Affidavit of Publication

STATE OF UTAH.
County of Salt Lake } ss.

Shana D. Conaty

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Pub notice of hearing Cause #WD-104 (American Quasar Petroeum Co.)

was published in said newspapers on March 18, 1982

Shana D Conaty
Legal Advertising Clerk

Subscribed and sworn to before me this 18th *day of* March *A.D. 19*82.

Roland L Standing
Notary Public

My Commission Expires

June 1, 1985

PROOF OF PUBLICATION

STATE OF UTAH, }
County of Summit, } ss.

I, Susan Davis

being first duly sworn, depose and say that I am the

bookkeeper of The Park Record, a weekly newspaper of general circulation, published once each week at Park City, Utah, that the notice attached hereto and which is a

Notice of hearing - Cause No. WD-104

was published in said newspaper for one (1) consecutive issues, the first publication having been made on the 18 day of March, 1982, and the last on the 18 day of March, 1982, that said notice was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in any supplement.

Subscribed and sworn to before me this 18 day of March, 1982.

Notary Public

My commission expires _____, 19____.

Notice

Before the Division of Oil, Gas and Mining Department of Natural Resources and Energy in and for the State of Utah

Notice of Hearing
Cause No. WD-104

The State of Utah to all persons, owners, producers, operators, purchasers, and takers of oil and gas, and all other interested persons, particularly in Summit County, Utah.

Notice is hereby given that American Quasar Petroleum Company, 707 United Bank Tower, 1700 Broadway, Denver, Colorado, 80290, is requesting that the Division authorize the approval of the injection of salt water into a well as follows:

Lease and Well: Judd #34-2
Injection Zone and Depth: Stump Formation, 8628' - 8690'

Injection Pressure and Rate: 1400 B/D, Maximum Pressure 2500 psi.

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining with fifteen (15) days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah.

Dated this 12th day of March, 1982.

Paula J. Frank
Secretary of the Board

Published in the Park Record March 18, 1982.

RECEIVED
MAR 24 1982
DIVISION OF
OIL, GAS & MINING

PROOF OF PUBLICATION

STATE OF UTAH, }
County of Summit, } ss.

I, Susan Davis

being first duly sworn, depose and say that I am the

bookkeeper of The Park Record, a weekly newspaper of general circulation, published once each week at Park City, Utah, that the notice attached hereto and which is a

Notice of hearing - Cause No. WD-104

was published in said newspaper for one (1) consecutive issues, the first publication having been made on the 18 day of March, 1982, and the last on the 18 day of March, 1982, that said notice was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in any supplement.

Susan Davis

Subscribed and sworn to before me this 18 day of March, 1982.

[signature]
Notary Public

My commission expires My Commission Expires Sept. 1, 1985, 19__.

[redacted]

Before the Division of Oil, Gas and Mining Department of Natural Resources and Energy in and for the State of Utah

Notice of Hearing
Cause No. WD-104

The State of Utah to all persons, owners, producers, operators, purchasers, and takers of oil and gas, and all other interested persons, particularly in Summit County, Utah.

Notice is hereby given that American Quasar Petroleum Company, 707 United Bank Tower, 1700 Broadway, Denver, Colorado, 80290, is requesting that the Division authorize the approval of the injection of salt water into a [illegible] follows:

[illegible]

Injection Pressure [illegible] Rate: 1400 B/D, Maximum Pressure 2500 psi.

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining with fifteen (15) days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah.

Dated this 12th day of March, 1982.

Paula J. Frank
Secretary of the Board

[illegible] Record

LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit Judd 3-22-82 9:00p.m.

Our Laboratory Number 820150

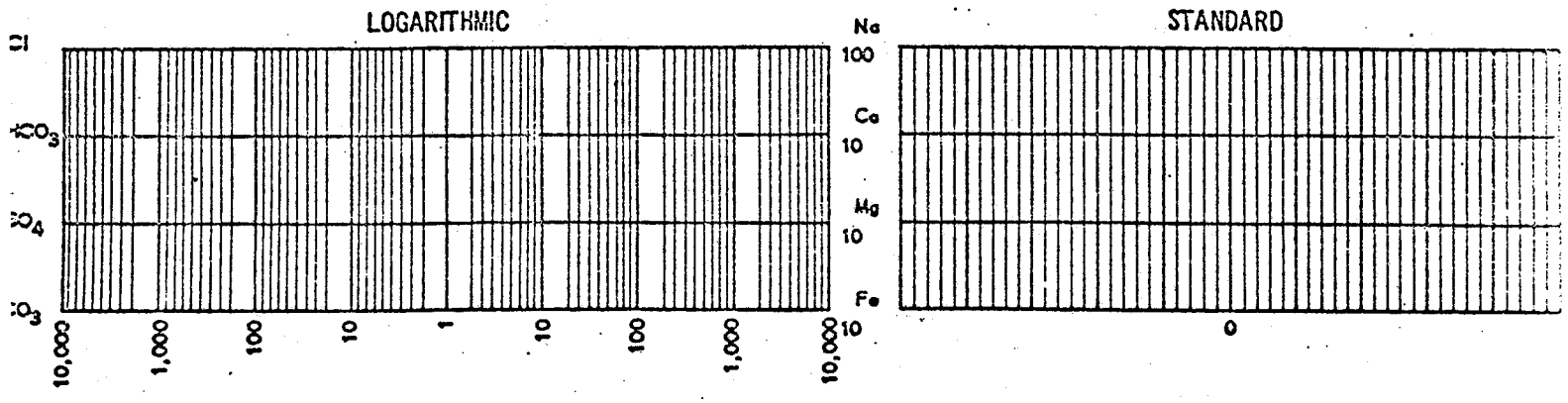
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .969 pH 8.42 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 1,424. mg/L as $CaCO_3$ TOTAL ALKALINITY 128. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	480.	23.95		
MAGNESIUM - Mg^{++}	55.	4.52		
SODIUM - Na^{+}	22,000.	956.94		
Potassium - K^{+}	322.	8.3		
BARIUM (INCL. STRONTIUM) - Ba^{++}	2.	0.03		
TOTAL IRON - Fe^{++} AND Fe^{+++}	2.0	0.07		
BICARBONATE - HCO_3^{-}	0.0	0.00		
CARBONATE - CO_3^{--}	93.24	3.11		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	28,988.	817.48		
TOTAL DISSOLVED SOLIDS	55,000.			

MILLEQUIVALENTS PER LITER



LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Uuasar Date 4-1-82

Sample Name South Fork Summit Judd 3-20-82 1:00p.m.

Our Laboratory Number 820148

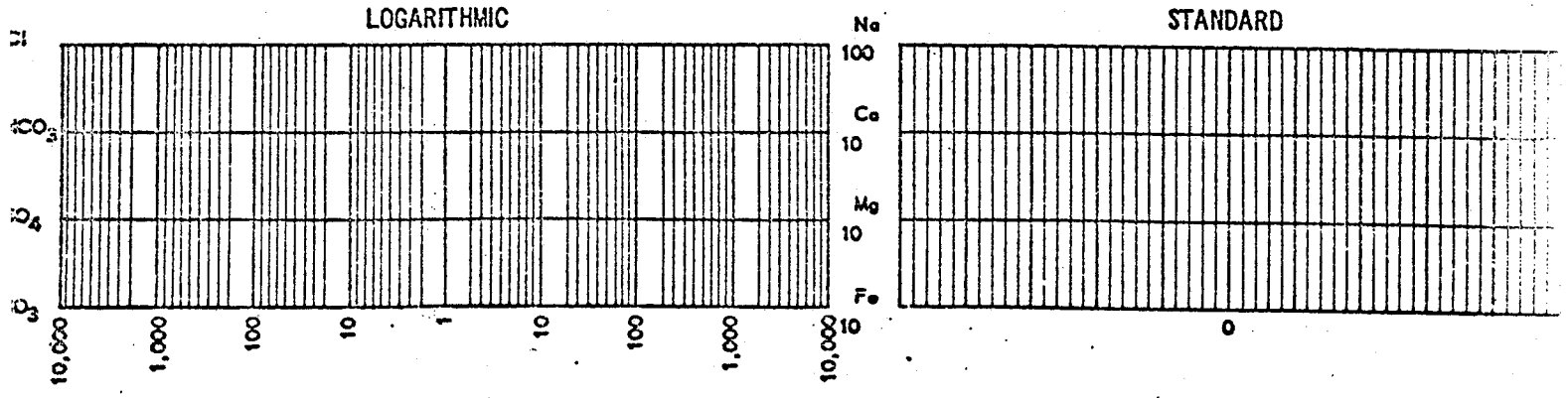
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .965 pH 9.95 RES. .266 OHM METERS @ 77°F

TOTAL HARDNESS 884 mg/L as $CaCO_3$ TOTAL ALKALINITY 231. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	350.	17.47		
MAGNESIUM - Mg^{++}	3.	0.25		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	429.	10.97		
BARIUM (INCL. STRONTIUM) - Ba^{++}	13.	0.19		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.0	0.04		
BICARBONATE - HCO_3^{-}	66.36	1.09		
CARBONATE - CO_3^{--}	73.26	2.44		
SULFATE - SO_4^{--}	1,720.	35.80		
CHLORIDE - CL^{-}	23,100.	651.44		
TOTAL DISSOLVED SOLIDS	60,560.			

MILLEQUIVALENTS PER LITER



LYTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 3-22-82 12:30 p.m.

Our Laboratory Number 820151

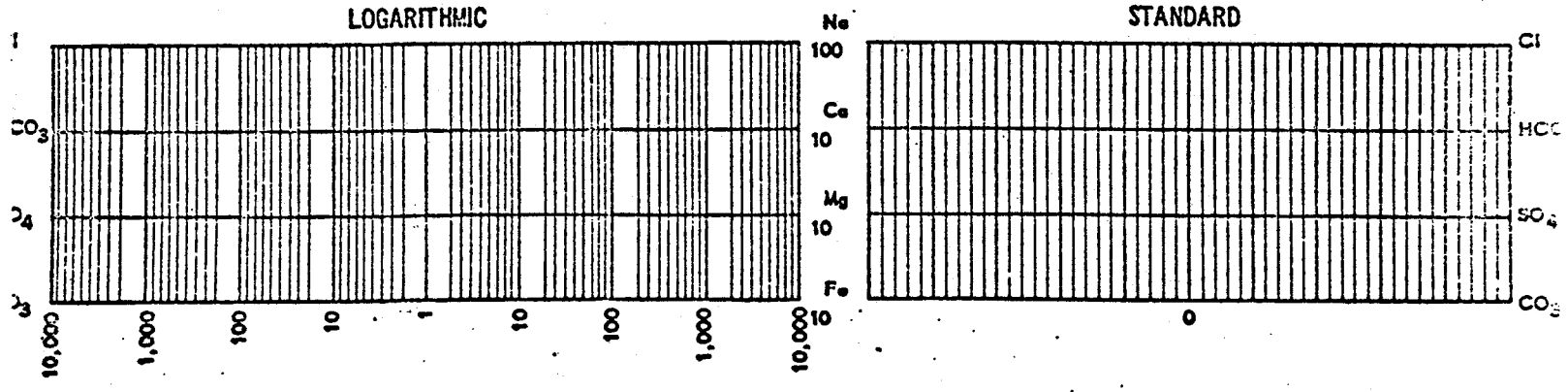
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .972 pH 7.63 RES. .29 OHM METERS @ 77°F

TOTAL HARDNESS 1,874. mg/l as $CaCO_3$ TOTAL ALKALINITY 77.7 mg/l as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/l.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	560.	27.94		
MAGNESIUM - Mg^{++}	116.	9.53		
SODIUM - Na^{+}	20,100.	874.29		
Potassium - K^{+}	230.	5.88		
BARIUM (INCL. STRONTIUM) - Ba^{++}	7.	0.10		
TOTAL IRON - Fe^{++} AND Fe^{+++}	3.	11.10		
BICARBONATE - HCO_3^{-}	47.40	0.78		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	23,640.	666.66		
TOTAL DISSOLVED SOLIDS	53,200.			

MILLEQUIVALENTS PER LITER



UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit Judd 3-22-82 9:00p.m.

Our Laboratory Number 820150

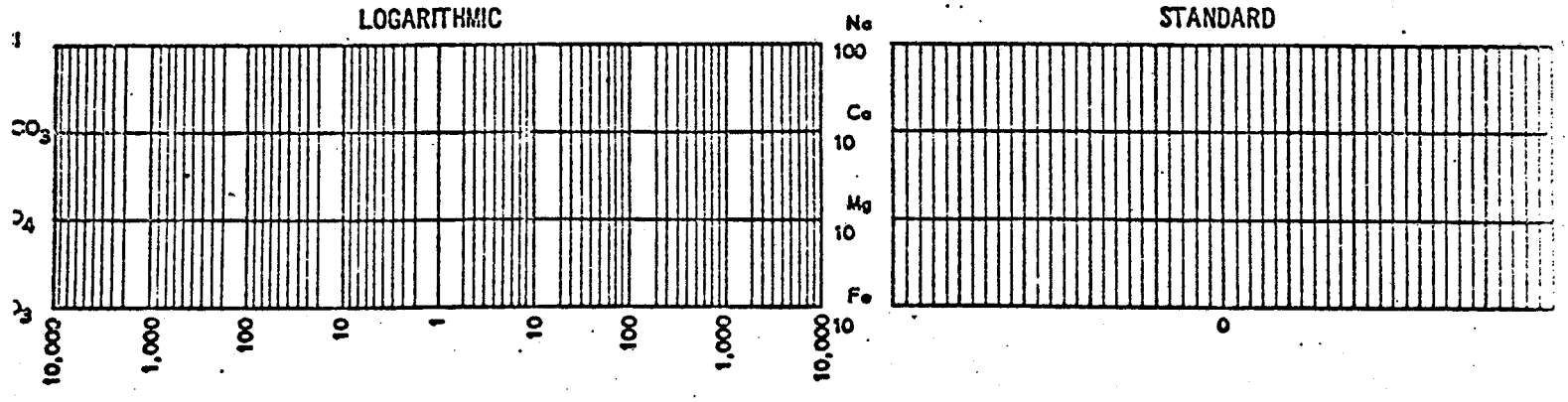
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .969 pH 8.42 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 1,424. mg/L as $CaCO_3$ TOTAL ALKALINITY 128. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	480.	23.95		
MAGNESIUM - Mg^{++}	55.	4.52		
SODIUM - Na^{+}	22,000.	956.94		
Potassium - K^{+}	322.	8.3		
BARIUM (INCL. STRONTIUM) - Ba^{++}	2.	0.03		
TOTAL IRON - Fe^{++} AND Fe^{+++}	2.0	0.07		
BICARBONATE - HCO_3^{-}	0.0	0.00		
CARBONATE - CO_3^{--}	93.24	3.11		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	28,988.	817.48		
TOTAL DISSOLVED SOLIDS	55,000.			

MILLEQUIVALENTS PER LITER



UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 Judd 3-20-82 3:00p.m.

Our Laboratory Number 820149

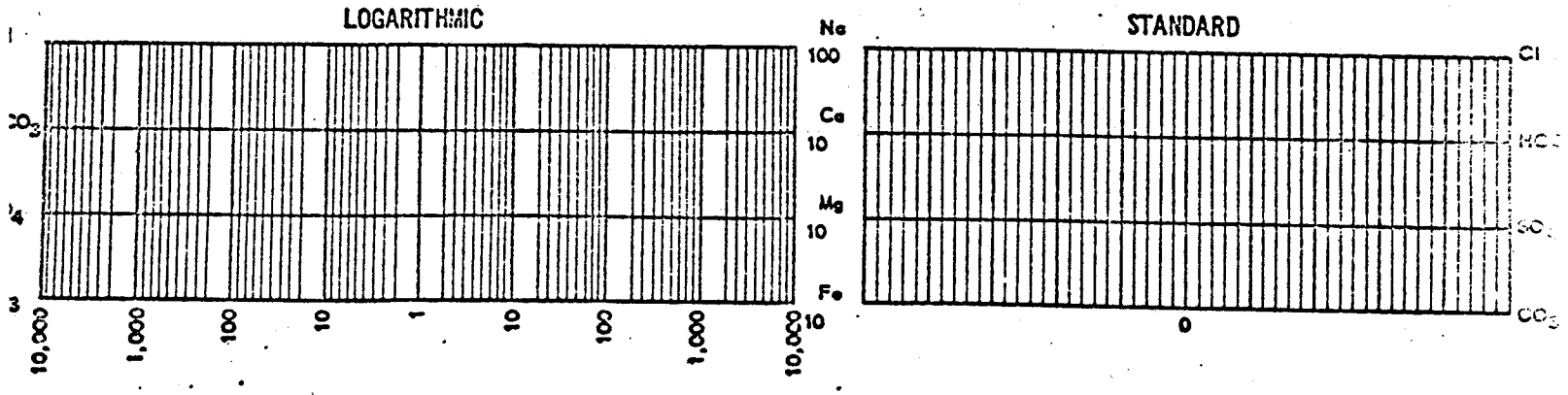
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .963 pH 10.27 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 699. mg/L as $CaCO_3$ TOTAL ALKALINITY 379. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	280.	13.97		
MAGNESIUM - Mg^{++}	0.0	0.00		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	478.	12.22		
BARIUM (INCL. STRONTIUM) - Ba^{++}	3.	0.04		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.	0.04		
BICARBONATE - HCO_3^{-}	671.61	11.01		
CARBONATE - CO_3^{--}	221.11	7.37		
SULFATE - SO_4^{--}	1,830.	38.09		
CHLORIDE - CL^{-}	28,488.	803.38		
TOTAL DISSOLVED SOLIDS	62,760.			

MILLEQUIVALENTS PER LITER



LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit Judd 3-20-82 1:00p.m.

Our Laboratory Number 820148

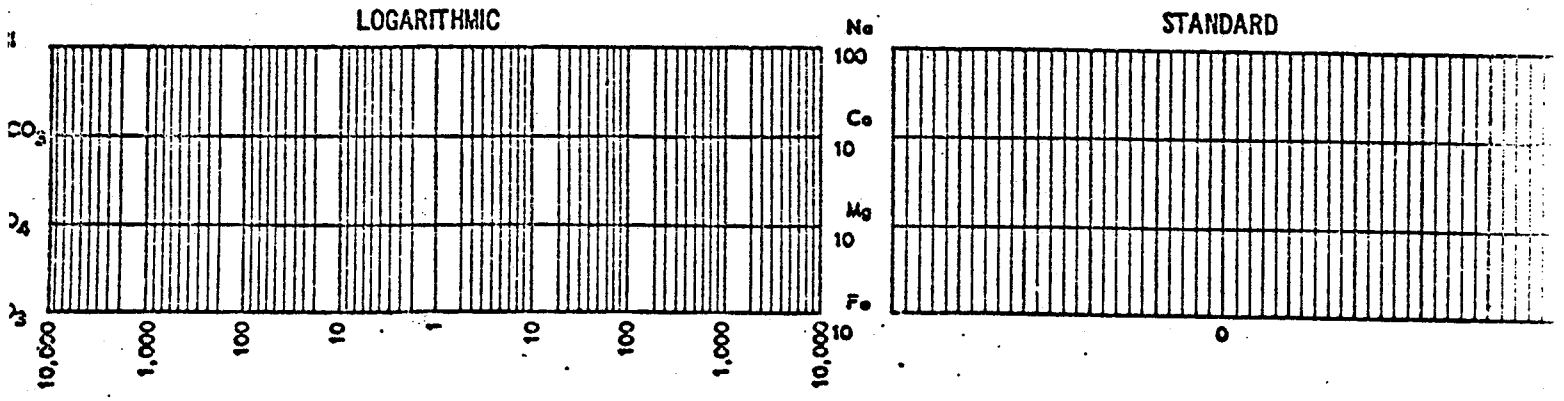
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .965 pH 9.95 RES. .266 OHM METERS @ 77°F

TOTAL HARDNESS 884 mg/L as $CaCO_3$ TOTAL ALKALINITY 231. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	350.	17.47		
MAGNESIUM - Mg^{++}	3.	0.25		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	429.	10.97		
BARIUM (INCL. STRONTIUM) - Ba^{++}	13.	0.19		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.0	0.04		
BICARBONATE - HCO_3^{-}	66.36	1.09		
CARBONATE - CO_3^{--}	73.26	2.44		
SULFATE - SO_4^{--}	1,720.	35.80		
CHLORIDE - CL^{-}	23,100.	651.44		
TOTAL DISSOLVED SOLIDS	60,560.			

MILLEQUIVALENTS PER LITER



LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 3-22-82 12:30 p.m.

Our Laboratory Number 820151

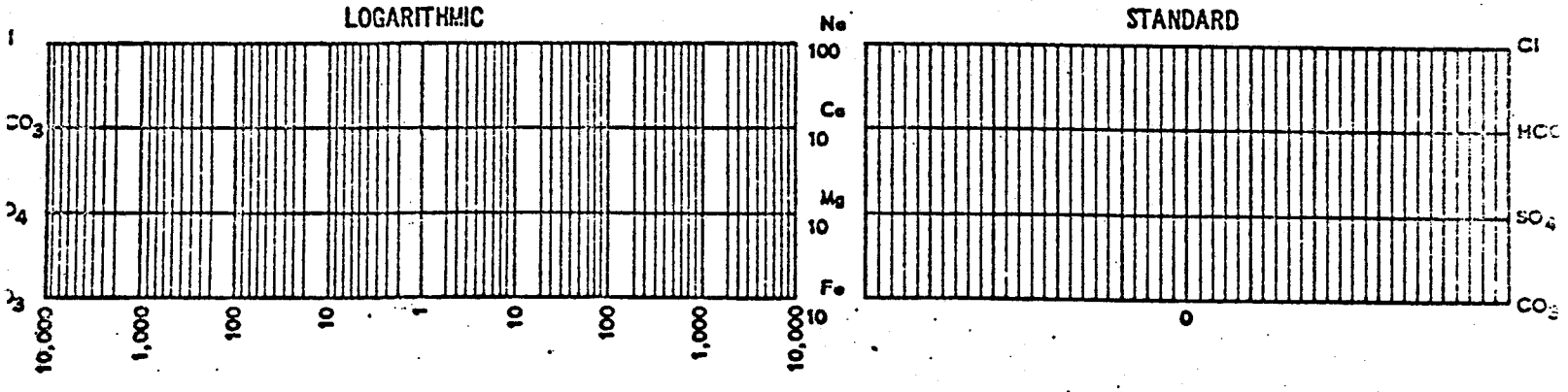
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .972 pH 7.63 RES. .29 OHM METERS @ 77°F

TOTAL HARDNESS 1,874. mg/l as $CaCO_3$ TOTAL ALKALINITY 77.7 mg/l as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	560.	27.94		
MAGNESIUM - Mg^{++}	116.	9.53		
SODIUM - Na^{+}	20,100.	874.29		
Potassium - K^{+}	230.	5.88		
BARIUM (INCL. STRONTIUM) - Ba^{++}	7.	0.10		
TOTAL IRON - Fe^{++} AND Fe^{+++}	3.	11.10		
BICARBONATE - HCO_3^{-}	47.40	0.78		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	23,640.	666.66		
TOTAL DISSOLVED SOLIDS	53,200.			

MILLEQUIVALENTS PER LITER



LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit Judd 3-22-82 9:00p.m.

Our Laboratory Number 820150

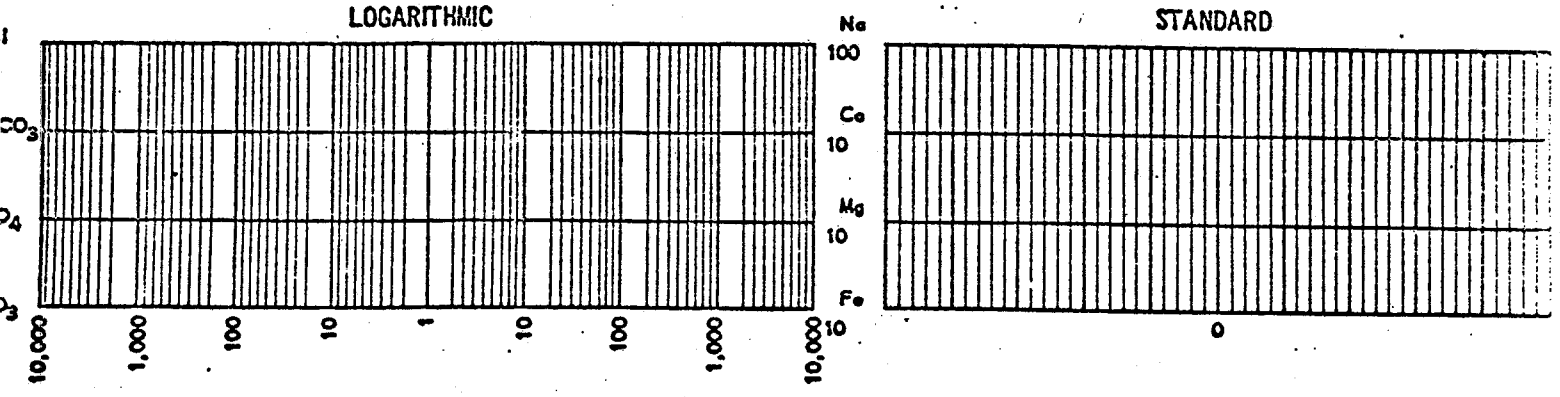
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .969 pH 8.42 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 1,424. mg/L as $CaCO_3$ TOTAL ALKALINITY 128. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	480.	23.95		
MAGNESIUM - Mg^{++}	55.	4.52		
SODIUM - Na^{+}	22,000.	956.94		
Potassium - K^{+}	322.	8.3		
BARIUM (INCL. STRONTIUM) - Ba^{++}	2.	0.03		
TOTAL IRON - Fe^{++} AND Fe^{+++}	2.0	0.07		
BICARBONATE - HCO_3^{-}	0.0	0.00		
CARBONATE - CO_3^{--}	93.24	3.11		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	28,988.	817.48		
TOTAL DISSOLVED SOLIDS	55,000.			

MILLEQUIVALENTS PER LITER



LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 Judd 3-20-82 3:00p.m.

Our Laboratory Number 820149

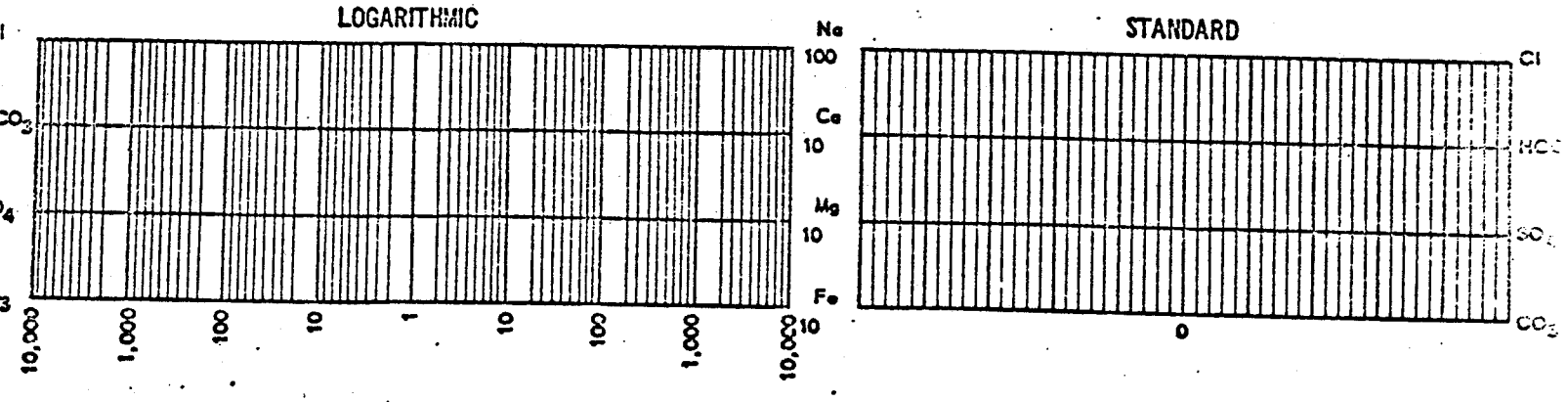
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .963 pH 10.27 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 699. mg/L as $CaCO_3$ TOTAL ALKALINITY 379. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	280.	13.97		
MAGNESIUM - Mg^{++}	0.0	0.00		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	478.	12.22		
BARIUM (INCL. STRONTIUM) - Ba^{++}	3.	0.04		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.	0.04		
BICARBONATE - HCO_3^{-}	671.61	11.01		
CARBONATE - CO_3^{--}	221.11	7.37		
SULFATE - SO_4^{--}	1,830.	38.09		
CHLORIDE - CL^{-}	28,488.	803.38		
TOTAL DISSOLVED SOLIDS	62,760.			

MILLEQUIVALENTS PER LITER



LITE RESEARCH LABORATORY
P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Ouasar Date 4-1-82

Sample Name South Fork Summit Judd 3-20-82 1:00p.m.

Our Laboratory Number 820148

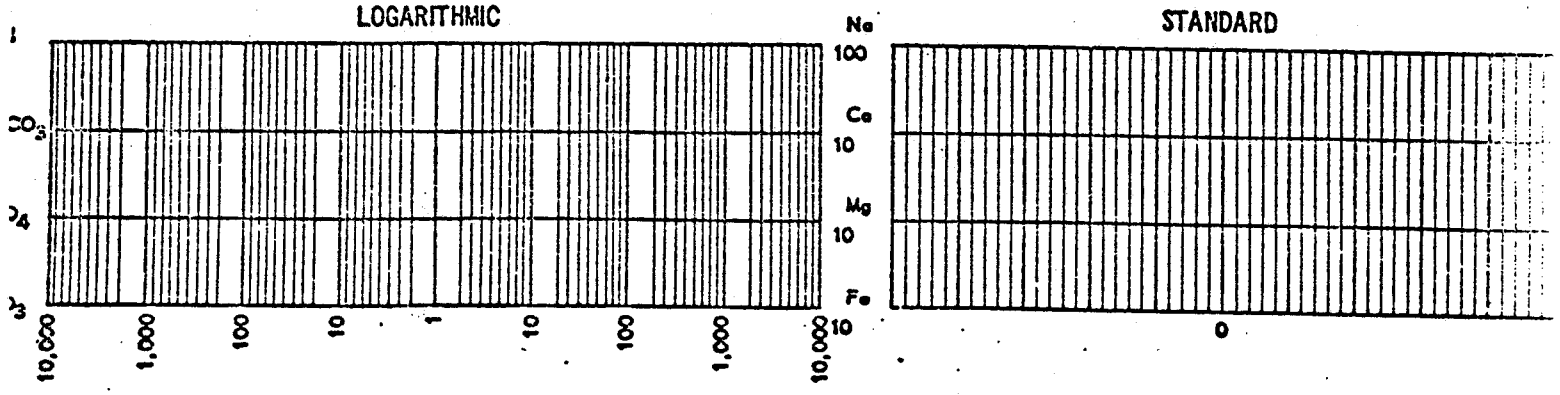
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .965 pH 9.95 RES. .266 OHM METERS @ 77°F

TOTAL HARDNESS 884 mg/L as $CaCO_3$ TOTAL ALKALINITY 231. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	350.	17.47		
MAGNESIUM - Mg^{++}	3.	0.25		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	429.	10.97		
BARIUM (INCL. STRONTIUM) - Ba^{++}	13.	0.19		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.0	0.04		
BICARBONATE - HCO_3^{-}	66.36	1.09		
CARBONATE - CO_3^{--}	73.26	2.44		
SULFATE - SO_4^{--}	1,720.	35.80		
CHLORIDE - CL^{-}	23,100.	651.44		
TOTAL DISSOLVED SOLIDS	60,560.			

MILLEQUIVALENTS PER LITER



3365668 Janet. Paul Smith Tue-Wed

LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

RECEIVED APR 30 1982 DIVISION OF OIL, GAS & MINING

Company American Quasar Date 4-1-82

Sample Name South Fork 34-2 Judd 3-23-82

Our Laboratory Number 820155

Paul Smith perfs: 8628 top 8730 bottom

Swabbed from Stump

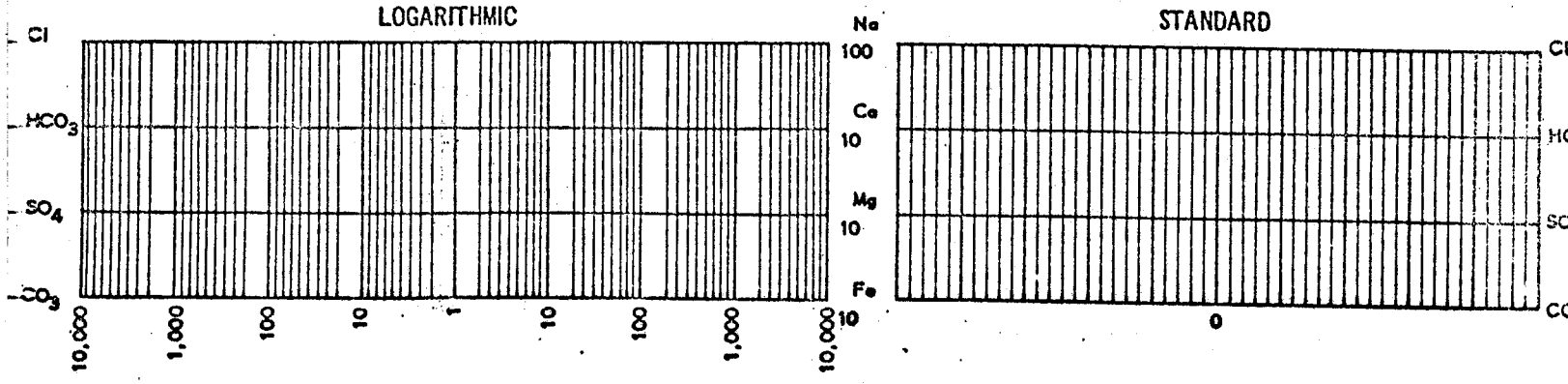
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .935 pH 1.84 RES. .22 OHM METERS @ 77°F

TOTAL HARDNESS 9,927. mg/L as $CaCO_3$ TOTAL ALKALINITY 0 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	2,900.	144.71		
MAGNESIUM - Mg^{++}	655.	53.82		
SODIUM - Na^{+}	17,000.	739.45		
Potassium - K^{+}	543.	13.89		
BARIUM (INCL. STRONTIUM) - Ba^{++}	50.	0.73		
TOTAL IRON - Fe^{++} AND Fe^{+++}	610.	21.84		
BICARBONATE - HCO_3^{-}	0.00	0.00		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,000.	20.82		
CHLORIDE - CL^{-}	35,500.	1,001.13		
TOTAL DISSOLVED SOLIDS	76,800.			

MILLEQUIVALENTS PER LITER



UTE RESEARCH LABORATORY
P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 Judd 3-23-82

Our Laboratory Number 820154

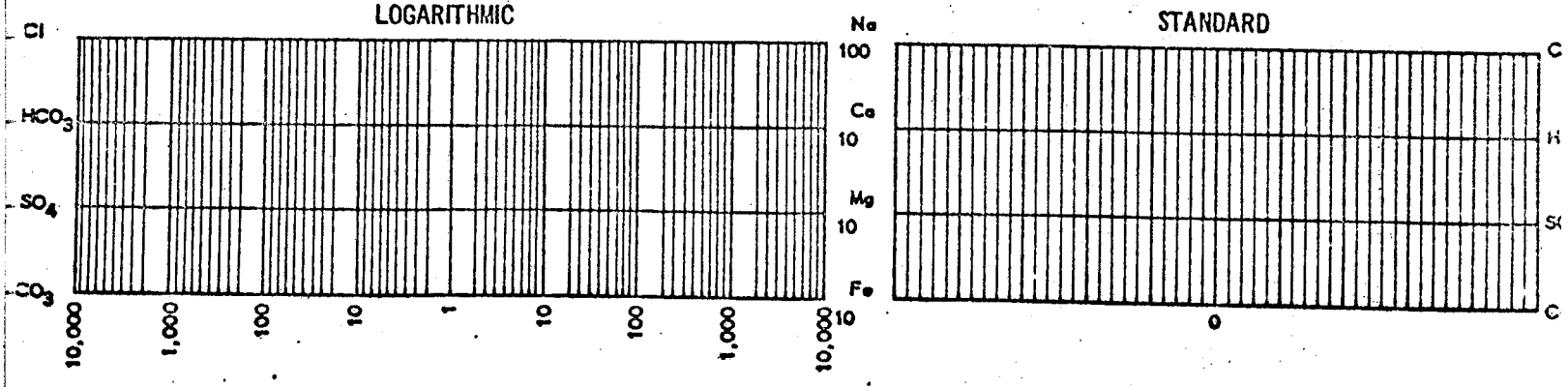
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .951 pH 1.91 RES. .20 OHM METERS @ 77°F

TOTAL HARDNESS 23,175. mg/L as $CaCO_3$ TOTAL ALKALINITY 0 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	8,200.	407.18		
MAGNESIUM - Mg^{++}	661.	54.31		
SODIUM - Na^{+}	16,200.	704.65		
Potassium - K^{+}	563.	14.40		
BARIUM (INCL. STRONTIUM) - Ba^{++}	145.	2.11		
TOTAL IRON - Fe^{++} AND Fe^{+++}	650.	23.27		
BICARBONATE - HCO_3^{-}	0.00	0.00		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,120.	23.31		
CHLORIDE - CL^{-}	39,984.	1,127.58		
TOTAL DISSOLVED SOLIDS	79,920.			

MILLEQUIVALENTS PER LITER



LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 Judd 3-23-82

Our Laboratory Number 820153

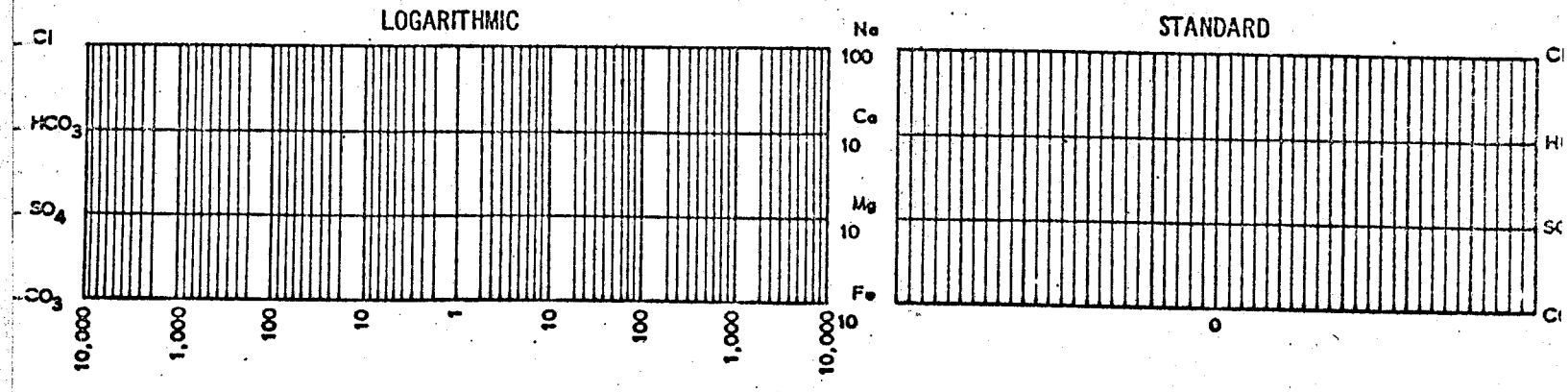
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .951 pH 1.93 RES. .28 OHM METERS @ 77°F

TOTAL HARDNESS 23,200. mg/L as $CaCO_3$ TOTAL ALKALINITY 0 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	8,200.	409.18		
MAGNESIUM - Mg^{++}	667.	54.81		
SODIUM - Na^{+}	16,800.	730.75		
Potassium - K^{+}	533.	13.63		
BARIUM (INCL. STRONTIUM) - Ba^{++}	140.	2.04		
TOTAL IRON - Fe^{++} AND Fe^{+++}	630.	22.56		
BICARBONATE - HCO_3^{-}	0.00	0.00		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,120.	23.31		
CHLORIDE - CL^{-}	42,500.	1,198.53		
TOTAL DISSOLVED SOLIDS	80,200			

MILLEQUIVALENTS PER LITER



UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 3-23-82

Our Laboratory Number 820152

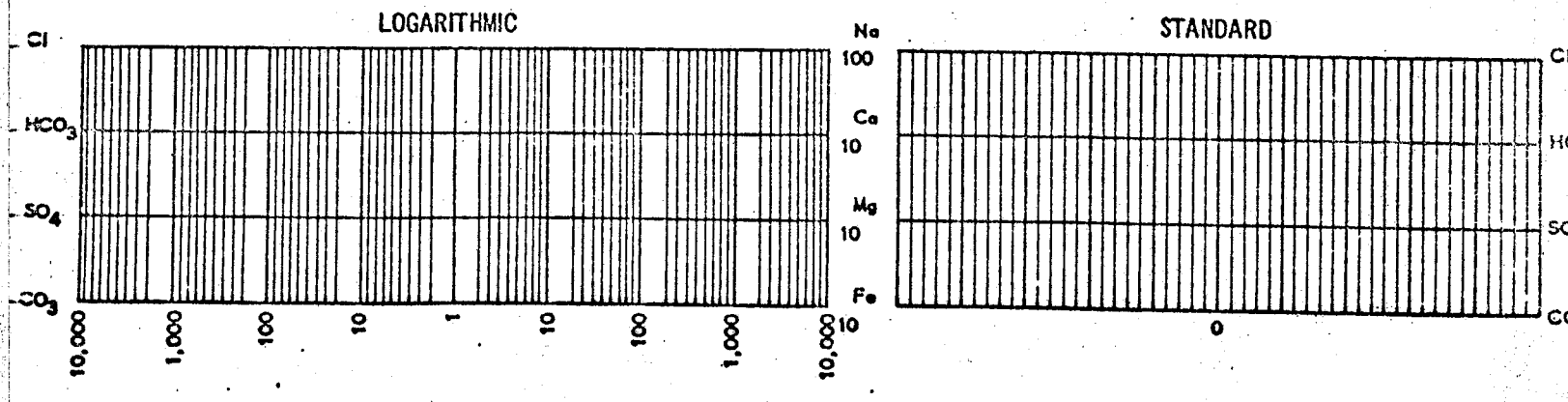
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .939 pH 1.87 RES. .24 OHM METERS @ 77°F

TOTAL HARDNESS 24,818. mg/L as $CaCO_3$ TOTAL ALKALINITY 0 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	8,800.	439.12		
MAGNESIUM - Mg^{++}	697.	57.27		
SODIUM - Na^{+}	16,700.	726.40		
Potassium - K^{+}	555.	14.19		
BARIUM (INCL. STRONTIUM) - Ba^{++}	177.	2.58		
TOTAL IRON - Fe^{++} AND Fe^{+++}	700.	25.06		
BICARBONATE - HCO_3^{-}	0.00	0.00		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,150.	23.94		
CHLORIDE - CL^{-}	41,500.	1,170.33		
TOTAL DISSOLVED SOLIDS	82,440.			

MILLEQUIVALENTS PER LITER



UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 3-22-82 12:30 p.m.

Our Laboratory Number 820151

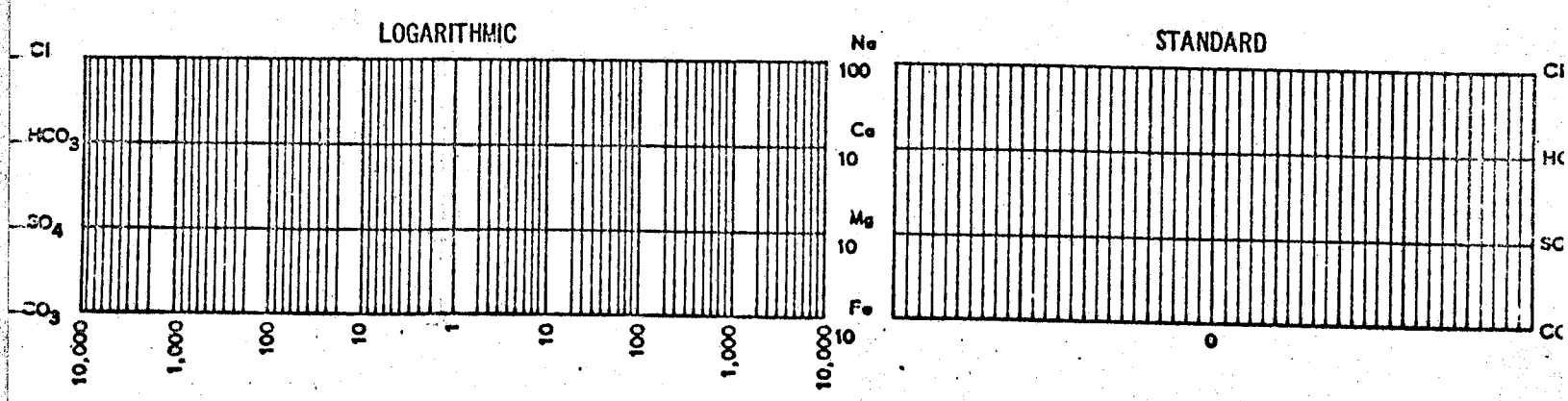
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .972 pH 7.63 RES. .29 OHM METERS @ 77°F

TOTAL HARDNESS 1,874. mg/L as $CaCO_3$ TOTAL ALKALINITY 77.7 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	560.	27.94		
MAGNESIUM - Mg^{++}	116.	9.53		
SODIUM - Na^{+}	20,100.	874.29		
Potassium - K^{+}	230.	5.88		
BARIUM (INCL. STRONTIUM) - Ba^{++}	7.	0.10		
TOTAL IRON - Fe^{++} AND Fe^{+++}	3.	11.10		
BICARBONATE - HCO_3^{-}	47.40	0.78		
CARBONATE - CO_3^{--}	0.00	0.00		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	23,640.	666.66		
TOTAL DISSOLVED SOLIDS	53,200.			

MILLEQUIVALENTS PER LITER



UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit Judd 3-22-82 9:00p.m.

Our Laboratory Number 820150

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .969 pH 8.42 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 1,424. mg/L as $CaCO_3$ TOTAL ALKALINITY 128. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	480.	23.95		
MAGNESIUM - Mg^{++}	55.	4.52		
SODIUM - Na^{+}	22,000.	956.94		
Potassium - K^{+}	322.	8.3		
BARIUM (INCL. STRONTIUM) - Ba^{++}	2.	0.03		
TOTAL IRON - Fe^{++} AND Fe^{+++}	2.0	0.07		
BICARBONATE - HCO_3^{-}	0.0	0.00		
CARBONATE - CO_3^{--}	93.24	3.11		
SULFATE - SO_4^{--}	1,790.	37.26		
CHLORIDE - CL^{-}	28,988.	817.48		
TOTAL DISSOLVED SOLIDS	55,000.			

MILLEQUIVALENTS PER LITER

UTE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit 34-2 Judd 3-20-82 3:00p.m.

Our Laboratory Number 820149

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .963 pH 10.27 RES. .31 OHM METERS @ 77°F

TOTAL HARDNESS 699. mg/L as $CaCO_3$ TOTAL ALKALINITY 379. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	280.	13.97		
MAGNESIUM - Mg^{++}	0.0	0.00		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	478.	12.22		
BARIUM (INCL. STRONTIUM) - Ba^{++}	3.	0.04		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.	0.04		
BICARBONATE - HCO_3^{-}	671.61	11.01		
CARBONATE - CO_3^{--}	221.11	7.37		
SULFATE - SO_4^{--}	1,830.	38.09		
CHLORIDE - CL^{-}	28,488.	803.38		
TOTAL DISSOLVED SOLIDS	62,760.			

MILLEQUIVALENTS PER LITER

LITE RESEARCH LABORATORY

P. O. Box 266 Fort Duchesne, Utah 84026 (801) 722-2254

Company American Quasar Date 4-1-82

Sample Name South Fork Summit Judd 3-20-82 1:00p.m.

Our Laboratory Number 820148

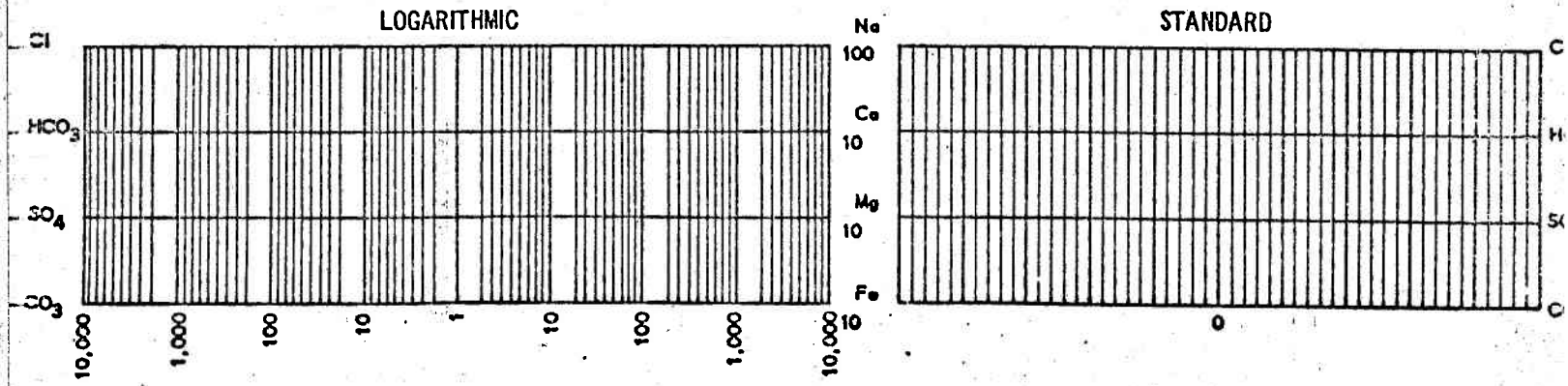
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. .965 pH 9.95 RES. .266 OHM METERS @ 77°F

TOTAL HARDNESS 884 mg/L as $CaCO_3$ TOTAL ALKALINITY 231. mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	350.	17.47		
MAGNESIUM - Mg^{++}	3.	0.25		
SODIUM - Na^{+}	24,200.	1,052.63		
Potassium - K^{+}	429.	10.97		
BARIUM (INCL. STRONTIUM) - Ba^{++}	13.	0.19		
TOTAL IRON - Fe^{++} AND Fe^{+++}	1.0	0.04		
BICARBONATE - HCO_3^{-}	66.36	1.09		
CARBONATE - CO_3^{--}	73.26	2.44		
SULFATE - SO_4^{--}	1,720.	35.80		
CHLORIDE - CL^{-}	23,100.	651.44		
TOTAL DISSOLVED SOLIDS	60,560.			

MILLEQUIVALENTS PER LITER



PROOF OF PUBLICATION

STATE OF UTAH, }
County of Summit, } ss.

I, Colleen Mecham

being first duly sworn, depose and say that I am the Bookkeeper of The Summit County Bee, a weekly newspaper of general circulation, published once each week at Coalville, Utah, that the notice attached hereto and which is a Notice of Hearing - Cause No. WD 104

was published in said newspaper for 1 consecutive issues, the first publication having been made on the 19th day of March, 1982, and the last on the 19th day of March, 1982, that said notice was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in any supplement.

Colleen Mecham

Subscribed and sworn to before me this 2nd day of April, 1982

Notary Public

My commission expires My Commission Expires Sept. 1, 1985, 19____.

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

IN THE MATTER OF THE APPLICATION OF AMERICAN QUASAR PETROLEUM COMPANY FOR ADMINISTRATIVE APPROVAL TO DISPOSE OF SALT WATER INTO THE JUDD #34-2 WELL, SENW SECTION 34, TOWNSHIP 2 NORTH, RANGE 6 EAST, SUMMIT COUNTY, UTAH

NOTICE OF HEARING CAUSE NO. WD-104

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS, AND TAKERS OF OIL AND GAS, AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH.

NOTICE IS HEREBY GIVEN that American Quasar Petroleum Company, 707 United Bank Tower, 1700 Broadway, Denver, Colorado, 80290, is requesting that the Division authorize the approval of the injection of salt water into a well as follows:

WELL
Judd #34-2

INJECTION ZONE AND DEPTH:
Stump Formation, 8628' - 8690'

INJECTION PRESSURE AND RATE
1400 B/D, Maximum Pressure 2500 psi

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen (15) days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah.

DATED this 12th day of March, 1982.

STATE OF UTAH
BOARD OF
OIL, GAS AND
MINING

PAULA J. FRANK
Secretary of
the Board

Published in the Summit County Bee Friday, March 19, 1982.

PROOF OF PUBLICATION

STATE OF UTAH, }
County of Summit, } ss.

I, Callan Meehan

being first duly sworn, depose and say that I am the Bookkeeper of The Summit County Bee, a weekly newspaper of general circulation, published once each week at Coalville, Utah, that the notice attached hereto and which is a Notice of Hearing - Cause No. WD-8104

was published in said newspaper for 1 consecutive issues, the first publication having been made on the 19th day of March, 1982, and the last on the 19th day of March, 1982, that said notice was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in any supplement.

Callan Meehan

Subscribed and sworn to before me this 2nd day of April, 1982

Notary Public

My commission expires My Commission Expires Sept. 1, 1985 19____.

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

IN THE MATTER OF THE APPLICATION OF AMERICAN QUASAR PETROLEUM COMPANY FOR ADMINISTRATIVE APPROVAL TO DISPOSE OF SALT WATER INTO THE JUDD #34-2 WELL. SENW SECTION 34, TOWNSHIP 2 NORTH, RANGE 6 EAST. SUMMIT COUNTY, UTAH

NOTICE OF HEARING
CAUSE NO. WD-104

THE STATE OF UTAH TO ALL PERSONS, OWNERS, PRODUCERS, OPERATORS, PURCHASERS, AND TAKERS OF OIL AND GAS, AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SUMMIT COUNTY, UTAH.

NOTICE IS HEREBY GIVEN that American Quasar Petroleum Company, 707 United Bank Tower, 1700 Broadway, Denver, Colorado, 80290, is requesting that the Division authorize the approval of the injection of salt water into a well as follows:

WELL
Judd #34-2

INJECTION ZONE AND DEPTH:
Stump Formation, 8628' - 8690'

INJECTION PRESSURE AND RATE
1400 B/D, Maximum Pressure 2500 psi

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen (15) days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah.

DATED this 12th day of March, 1982.

STATE OF UTAH
BOARD OF
OIL, GAS AND
MINING

PAULA J. FRANK
Secretary of
the Board

Published in the Summit County Bee Friday, March 19, 1982.

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

April 6, 1982

American Quasar Petroleum Co.
Attn: Mr. James T. Brown
1700 Broadway
Denver, CO 80290

Re: Cause No. WD-104
Judd 34-2
Sec. 34, T2N-R6E
Summit County, Utah

Dear Mr. Brown:

Please be advised that administrative approval has been granted to dispose of produced water into the above mentioned well.

Said approval is, however, conditional upon adhering to the provisions required under the "Class II Underground Injection Control" program rules and regulations.

Should you have any questions relative to the above, please do not hesitate to call or write.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cleon B Feight

CLEON B. FEIGHT
DIRECTOR

CBF/tp

cc: EPA, Denver

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

RECEIVED
MAY 03 1982
DIVISION OF
OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Disposal Well

2. NAME OF OPERATOR: American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR: 1700 Broadway #707 Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1979' FNL, 2163' FWL

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Judd

9. WELL NO.: 34-2

10. FIELD AND POOL, OR WILDCAT: Lodgepole - (Stump)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 34, T2N-R6E

14. PERMIT NO.: 43-043-30081

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7371

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Conversion to disposal well			XX
(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.) *

Cause No. WD-104

Tested casing - pressure did not hold.
Isolated hole between 3307-3278 50 sx sqqeeze. Did not hold.
Perf'd 40 holes @3282. Squeezed w/100 sx. Cleaned out and tested to 2600 psi, OK.
Perf'd 8730-8690, 8682-8668, 8658-8654, 8642-8632 w/3½" gun, 4 SPF (Stump).
Set pkr @8543 - tested 1000 psi, OK.
Acidized w/ 10,000 gal 15% HCl.
Packer @8428 - 5½" plastic coated.
Ran 272 jts N-80 2 7/8" internally plastic coated tubing.
Tested backside to 2500 psi, OK.

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

SIGNED Jim Brown TITLE Division Production Mgr. DATE 4/26/82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

AMERICAN QUASAR PETROLEUM CO.
OF NEW MEXICO
707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.
TELEPHONE (303) 861-8437

April 26, 1982

RECEIVED
MAY 03 1982
DIVISION OF
OIL, GAS & MINING

State of Utah
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84116

Attetnion: Mr. Cleon B. Feight

Subject: Cause No. WD-104 Conversion to disposal well,
Judd 34-2, Sec. 34, T2N-R6E, Summit County, Utah

Gentlemen:

Attached herewith are 3 copies of Form OGC-16 outlining operations in converting the captioned well to Stump formation disposal.

Also enclosed are formation water analyses obtained from swab runs prior to acidizing.

The well is currently shut in, waiting on installation of surface facilities. Form DOGM-UIC-5 will be forwarded within 30 days after injection commences. Please advise us if you have questions or require additional data.

Very truly yours,

Jim Brown

James T. Brown
Division Production Manager

JTB:sb
attachments

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

RECEIVED
MAY 01 1985
DIVISION OF OIL GAS & MINING

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Champlin Petroleum Company

3. ADDRESS OF OPERATOR: 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: Judd

9. WELL NO.: 34-2

10. FIELD AND POOL, OR WILDCAT: Lodgepole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 34 T2N-R6E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, 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	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change of Operator			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

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

The following wells are included in the Lodgepole Field, Summit County, Utah:

WELL	LOCATION
UPRR 27-1	SE SE, Sec 27, T2N, R6E
JUDD 34-1	SE SW, Sec 34, T2N, R6E
JUDD 34-2	SE NW, Sec 34, T2N, R6E
JUDD 34-3	SE SW, Sec 34, T2N, R6E
UPRR 35-1	SE NW, Sec 35, T2N, R6E

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:

*See Instructions on Reverse Side

Form OGC-1b

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

111810

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Saltwater Disposal

2. NAME OF OPERATOR: CHAMPLIN PETROLEUM COMPANY

3. ADDRESS OF OPERATOR: P.O. Box 700 Rock Springs, WY 82902-0700

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: SENW Sec. 34

5. LEASE DESIGNATION AND SERIAL NO.:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Judd

9. WELL NO.: 34-2

10. FIELD AND POOL, OR WILDCAT: Lodgepole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 34, T2N, R6E

14. PERMIT NO.: 43-043-30081

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7371' GR 7387' KB

12. COUNTY OR PARISH: Summit

13. STATE: UT

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	X
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(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 subject well plugged off during an acid treatment on September 25, 1986. Several attempts to pump into the well proved unsuccessful. As a result, coiled tubing was used in an attempt to clean out the fill in the wellbore. The fill was tagged 32' above the top perforation, but could not be removed with the coiled tubing. Approximately 15' of coiled tubing was lost in the hole during the operation. The well remained shut-in until October 29, 1986 due to an engineering evaluation. The following work was performed October 29 thru November 7, 1986:

1. Unseated packer. Pulled tubing.
2. Fished coiled tubing.
3. Circulated out fill to 8755'.
4. TIH with packer and 2-7/8" tubing. Set packer at 8376'.
5. Pressure tested backside to 1000 psi. Held O.K.
6. Returned well to injection on November 8, 1986.

RECEIVED
NOV 13 1986
DIVISION OF
OIL, GAS & MINING

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

SIGNED James B. Hume / KJN ~~James B. Hume/KJN~~ TITLE District Engineer DATE Nov. 11, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

RECEIVED JAN 04 1987 DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: UNION PACIFIC RESOURCES COMPANY / Champlin Petro. Co.

3. ADDRESS OF OPERATOR: P.O. Box 700 Rock Springs, WY 82902-0700

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

Judd 34-1 SENE Sec. 34
Judd 34-3 SESW Sec. 34
Judd 34-2 SWDW SENW Sec. 34 43-043-30081-WIW STRAP

14. PERMIT NO.

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

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 010705

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Judd

9. WELL NO.: 34-1, 34-2 SWDW, & 34-3

10. FIELD AND POOL, OR WILDCAT: Lodgepole - Nugget

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 34, T2N, R6E

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:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other) Temporarily Shut-in			[X]

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(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 subject lease will be shut-in due to non-economic conditions on January 1, 1988. The lease expenses increase dramatically during the winter months. This, along with the recent sharp decline in crude prices, has erased the profitability of the lease. The economics will be continuously evaluated as prices change and the summer months approach. In the meantime, the wells will be produced at least once every 60 days to ensure the lease is not lost. The saltwater disposal well, Judd 34-2, will be utilized coincidental with the oil wells. Mr. Ed Bonner with the Utah Division of State Lands and Forestry was contacted on December 30, 1987. Mr. Bonner indicated that his department has no lands in the area.

INJ COMMENCED
7-1-82 PER
DAN JARVIS
1-14-88

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

SIGNED Keith J. Nosich TITLE

Keith J. Nosich

30, 1987

(This space for Federal or State office use)

APPROVED BY TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions 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.)

RECEIVED JAN 04 1987 DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: UNION PACIFIC RESOURCES COMPANY / Champlin Petro. Co.

3. ADDRESS OF OPERATOR: P.O. Box 700 Rock Springs, WY 82902-0700

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

Judd 34-1 SENE Sec. 34
Judd 34-3 SESW Sec. 34
Judd 34-2 SWDW SENW Sec. 34 43-043-30081-WIW STAMP

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 010705

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Judd

9. WELL NO.: 34-1, 34-2 SWDW, & 34-3

10. FIELD AND POOL, OR WILDCAT: Lodgepole - Nugget

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 34, T2N, R6E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, 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	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other) Temporarily Shut-in			[X]				

(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 subject lease will be shut-in due to non-economic conditions on January 1, 1988. The lease expenses increase dramatically during the winter months. This, along with the recent sharp decline in crude prices, has erased the profitability of the lease. The economics will be continuously evaluated as prices change and the summer months approach. In the meantime, the wells will be produced at least once every 60 days to ensure the lease is not lost. The saltwater disposal well, Judd 34-2, will be utilized coincidental with the oil wells. Mr. Ed Bonner with the Utah Division of State Lands and Forestry was contacted on December 30, 1987. Mr. Bonner indicated that his department has no lands in the area.

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

SIGNED Keith J. Nosich TITLE Petroleum Engineer DATE Dec. 30, 1987

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CAUSE NO. WD-104

Notice of hearing was sent to the following:

NEWSPAPERS: Newspaper Agency Corp.
Summit County Bee
Park Record
} to publish Mar. 18, 82

American Quasar Petroleum Co.
707 United Bank Tower
1700 Broadway
Denver, CO 80290

EPA
1860 Lincoln St.
Suite 103
Denver, CO 80295
Attn: Mike Kuntz

P. J. Frank
MARCH 12, 1982

BEFORE THE BOARD OF OIL, GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES

in and for the STATE OF UTAH

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

IN THE MATTER OF THE APPLICATION OF AMERICAN QUASAR PETROLEUM COMPANY OF NEW MEXICO FOR AN ORDER AUTHORIZING APPLICANT TO DISPOSE OF WATER PRODUCED WITH OIL FROM WELLS LOCATED WITHIN THE PINEVIEW AREA, SUMMIT COUNTY, UTAH.	CAUSE No. 160-14

- - - - - - - - -

BE IT REMEMBERED that on the 26th day of June, 1979, a hearing was held before the Board of Oil, Gas and Mining in the above-entitled matter, and said hearing was taken before Athena Moore, a Certified Shorthand Reporter and Notary Public in and for the State of Utah, holding Utah C.S.R. License No. 38 commencing at the hour of 9:10 a.m. in the Executive Conference Room, Holiday Inn, 1659 West North Temple, Salt Lake City, Utah.

A P P E A R A N C E S

Charles R. Henderson, Chairman
Board of Oil, Gas & Mining

John L. Bell, Board Member
Thadis W. Box, Board Member
Edward T. Beck, Board Member
E. Steele McIntyre, Board Member
C. Ray Juvelin, Board Member

Cleon B. Feight, Director
Division of Oil, Gas & Mining

Thalia R. Busby
Administrative Secretary
Division of Oil, Gas & Mining

Denise Dragoo
Special Assistant
Attorney General's Office

Mike Thompson, Reclamation Engineer
Division of Oil, Gas & Mining

Robert Pruitt
Attorney at Law

I N D E X

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JAMES THOMAS BROWN	24
ROBERT SEIDEL	33

E X H I B I T S

Number	Page
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B	26
C	28
D	18
E	31
F	15

MR. CHAIRMAN: I didn't mean to get along this course, but we appreciate it.

MR. PRUITT: There's one question that we wanted to cover before we get into another exhibit.

Will you explain to the Board why we are using the Stump Formation as opposed to the Nugget or Twin Creek or some other formation?

A At the present time when disposing of 4,000 barrels per day into the Nugget Reservoir, and I'll point out the well in a few minutes on the map, but the well is incapable of taking over 4,000 barrels per day. In fact, we have to stimulate the well by giving it an acid treatment every three weeks. In addition to that, our existing surface equipment pressurizing of the water we injected is at capacity, too. Though we don't want to inject any more water into the Nugget Reservoir, because as I just discussed with Mr. Henderson, in answer to his question, we feel that we've got to get more water out of the Nugget in order to increase our water recovery. And if we reinject all of our produced water into the Nugget, this would in our opinion be very detrimental to trying to increase the recovery with high volume lift. So none of the operators or working interest partners within the field want to continue to dispose

of the water in the Nugget. The next producing reservoir from bottom of the wells out there up which would be a candidate for water disposal is the Twin Creek Reservoir. The Twin Creek Reservoir has no storage capacity. It is producing completely from a fracture system and all of the oil that has been produced from there has been within the fracture system. There is no porosity in the rock and, therefore, no oil in the matrix. So we feel that would be a very poor candidate because of the slow storage capacity to attempt to dispose of the water. Above the Twin Creek you have the salt interval which, of course, you couldn't inject water into. The next interval above that is the fluid section which is a shale and which you cannot inject water into. And immediately above the Pruist at an average depth of about 6,000 feet is the Stump Interval. So it's the deepest interval which, in our opinion, has the capability of handling water injection. It has reasonably high porosity indicating it has a high storage capacity and has been tested to a number of wells; it has oil shows and it is productive as I will show later in several wells within the field. Tests have indicated it will take, that is individual wells will take in excess of 10,000 barrels per day.

It is indicated to be a large reservoir by pressure measurements taken by one of the producing wells where the production is in excess of 50,000 barrels, pressured or measured and indicated zero decline in bottom hole pressure. This is an indication that it is a larger reservoir. We wouldn't anticipate over pressuring of any extent of the reservoir by injecting our produced water from the other reservoirs in the field.

One other item I would like to cover, if we had to drill a well for water disposal for the Nugget Reservoir, the cost would be approximately 1.5 million dollars completed. This would be at a depth of approximately 10,500 feet. The well drilled for disposal in the Stump as a comparison would have to be drilled to approximately 6,500 feet at a cost of $600,000.

Q (By Mr. Pruitt) But it is your proposal to use the existing wells that are not producing, is that correct?

A Yes, that is correct. That is quoting these numbers for comparison of the actual cost if we had to go in and drill a well.

Q Let's move now as to what has been marked for identification as Exhibit A. A copy is

MR. CHAIRMAN: Without objection it will be received.

(Whereupon Exhibit A was received in evidence.)

Q (By Mr. Pruitt) Would you digress for a moment and give us a little geological background on the formations that you have eluded to in your earlier testimony starting from the bottom most formation?

A The Nugget and Twin Creek Reservoirs are jurassic age. The top of the average depth of the top of the Nugget in the Pineview Field is approximately 9,000 feet. The average top of the Twin Creek Reservoir is approximately 7,500 feet.

The Stump Reservoir which we are proposing to inject in occurs at a depth of about 6,000 feet and the other reservoir that I mentioned is the Kelvin-Frontier, another producing horizon which occurs at approximately 3,000 feet. The Kelvin-Frontier and the Stump are both of the cretaceous age.

Q Does the Stump Formation in any manner communicate with the surface within the immediate vicinity of this field?

A No, it does not. The Pineview structure

is in what geologists call a grobin block. In other words, it is down faulted deeply below the surface at this point and, therefore, cannot be in communication with any formations that would be exposed to the surface anywhere near the field itself.

Q Mr. Seidel, I refer you now to what has been identified as Exhibit F, which is the last exhibit in your packet of exhibits, and I'll ask you to identify that exhibit and tell us who prepared it and what it contains.

(Whereupon Exhibit F was marked for identification.)

A Exhibit F describes our proposed expansion to a Pineview Water Injection System. It was prepared under my direction and I have reviewed it. It is correct. Our proposed system would be expanded to have the capacity to inject 12,000 barrels per day at a maximum pressure of 5,000 psi. AFE for this has been distributed to all partners and has been approved, and we are presently receiving the equipment and plan to initiate construction within the next two weeks.

This compares to our existing system which has a capacity of 4,000 barrels per day. We request a maximum injection rate per well of 10,000

barrels per day. The reason we request a capacity that high is that if the test of the high volume lift proves successful, it will eventually have to be expanded to other wells in the field. In order to handle the water produced from these wells, it will be necessary to have the additional capacity. We request a maximum limitation of 3,000 psi on our injection pressure which I think is a fairly common figure throughout the industry; you should never exceed a maximum pressure surface injection pressure greater than a half psi per depth to the top of your injection interval.

The system as designed has numerous shutdown systems to improve safety and minimize the possibility of any pollution or contamination. It will shut down on high pressure preventing any failure of any equipment; it's designed to shut down low pressure, in case there was a leak it will reduce the pressure and it will immediately shut down; and also it has equipment designed to shut it down if the humidity within the plant itself increases. In other words, if you have a leak within the plant and that water got loose within the plant, humidity centers will automatically pick this up and shut the plant down.

All the water injected through the plant will be metered with the turbine metering system which has proven to be the most satisfactory to the use in industry. These injection volumes will be reported to the state on a monthly basis. We will be injecting water from all of the producing reservoirs in the Pineview Field through this plant.

The Frontier-Kelvin Reservoir at 3,000 feet has an average salinity of 4,500 total solids based on a recent analysis performed on the 4-4S producing well which is producing in excess of 50 percent water cut.

The latest analysis on the Stump Reservoir in the Newton Sheep also is producing water and it indicates total solids of 12,500. The makeup of the water in the Twin Creek and the Nugget has some variation in it, but ranges from both reservoirs from about 25,000 parts per million to a maximum of 35,000 parts per million. The average total solids in the mix of the injection water is projected to be about 32,000 parts per million. The reason that it is that high is we estimate that 70 percent of the produced water will come from the Nugget Reservoir.

MR. PRUITT: I move at this time for

from the lower left, total dissolved solids indicate 29,305. We feel all of these analyses are representative of waters contained in the various reservoirs producing in the Pineview Field.

Q Are there any questions with regard to Exhibit D?

If not, I move at this time for their admission.

MR. BECK: I have a question. I don't know whether you can answer or maybe I'm wrong in asking. What effect would this amount of solids going back will have on the Stump Formation in the producing well; will it have any?

THE WITNESS: The data that we have on the Stump Reservoir indicates that it is unlimited. In other words, it has no restrictions. This is based on bottom hole pressure data taken upon original completion of the Newton Sheep compared to a pressure taken after it had produced in excess of 50,000 barrels. The two pressures were exactly equal. This indicates that the reservoir is very large. Therefore, the addition of water into the reservoir should not hurt anything. There is a possibility that eventually it may help push the oil from these water bearing levels up to the

producing wells and enhances recovery. But in this type of reservoir it's very difficult to prove that. There have been other fields where this has been proven. I know of no case where it has been proven and hurt the producing wells.

MR. BECK: Thank you.

MR. CHAIRMAN: Are there any other questions? (No response) They will be received.

(Whereupon Exhibit D was marked for identification and received in evidence.)

MR. PRUITT: Mr. Chairman, at this point I am through with testimony for a moment with Mr. Seidel, but I would like to recall him at the conclusion of Mr. Brown's testimony for some windup items. If the Board has any questions at this point, they could ask Mr. Seidel or they could wait until he is recalled.

MR. CHAIRMAN: Let me ask one question. What's the original pressures in the Stump?

THE WITNESS: I prefer you ask Mr. Brown that question. He has it available. I don't have it with me right here.

MR. CHAIRMAN: All right. You may be excused.

THE WITNESS: Thank you.

wells from the injection wells is uncemented, and apparently Mr. Feight is concerned that since it is uncemented that eventually after water from injection wells reaches these offset producing wells, possibly there would be some type of communication which could result in possible contamination of other zones. In our opinion, this is not true, and I will try to tell you why.

Each of these wells was cemented and ten to ten and a half pound per gallon of mud left in the annules. The Stump Formation has a bottom hole pressure which is equivalent to a nine pound per gallon mud weight. Therefore, the hydrostatic column of the fluids left in these annules is much greater than equivalent bottom hole pressure within the Stump Reservoir. So this in itself should prevent the movement of fluids within the reservoir unless there was a dramatic increase in pressure within the Stump.

As I have previously testified, all of the data that we have available to us indicates that the Stump is essentially unlimited reservoir, and the injection of this additional disposal water into the Stump should not result in increasing the average reservoir pressure within the Stump interval.

date we will probably have to address that question.

MR. SEIDEL: I sure don't know of any ever being done.

MS. DRAGOO: Do you see any potential in that area at all; are there any water aquifers or anything like that?

MR. SEIDEL: The waters above 3,000 feet gradually grade to a very high quality drinking water. Most of these are protected by a surface casing which in general are set at approximately between 1,500 and 2,000 feet and are cemented to the surface. Our surface casing will protect all of the waters we know that are of very high quality which would be suitable for drinking, livestock and irrigation.

I think Mr. Brown is giving me the data here that the equivalent of a ten pound mud column at a depth of 6,000 feet would be equivalent to a pressure of 3,115 psi.

MR. PRUITT: That would be in excess of the maximum pressures that you would intend to inject?

MR. SEIDEL: It would be in excess of the maximum pressure that we would anticipate within the Stump Reservoir, yes.

notice your surface cement only runs to 1500 feet in a couple of the wells. Did you say you did not know or there were no fresh water aquifers below 1500 feet?

MR. SEIDEL: There are some that are below 5,000 parts per million, but they grade from the depth of 1500 to the depth of 3,000 feet. They grade anywhere from, based on the limited data we have, from a figure of about 1100 to 1200 and maximum to the top of the Kelvin-Frontier Interval at 4,500 feet for which water analysis was given in the testimony. But the real high quality and waters below 1,000 parts per million are all protected by the surface casing.

MR. PRUITT: I point out to the Board that on a number of these wells in Exhibit E, that the surface casing is down 2,000 feet and in one case 2,500 feet. It's only a few instances where it is shallow say 1,500 feet. So we are not talking about all the wells being uniformly cased at 1,500 feet. Some are much deeper.

MR. CHAIRMAN: Mr. Seidel, you mentioned earlier that this is a grobin block fault, but some are up and some are down; do you feel that in the Stump Formation that there is a pressure variance

you the exact depths where these formations occur immediately adjacent to the Pineview Field, nor do we have any pressure measurements. All of the wells drilled within the general area have a grade close to a constant reservoir pressure gradient with depth, otherwise the reservoir pressure within all of the formations throughout this entire area vary at a figure of about .42 to .43 psi per foot per depth. If you take the depth of any formation and multiply it by .42 or .43, you come up with a figure that is very close to the measured reservoir pressures throughout the entire area, and throughout Summit County. In essence, we have all of the data to confirm this.

MR. CHAIRMAN: Ray, did you have another question?

MR. JUVELIN: I presume the cement logs have been done on the wells that are cemented from some depth to the surface?

MR. SEIDEL: Every well has had a cement bond log on it, yes, sir.

MR. CHAIRMAN: Are there any other questions? Jack?

MR. FEIGHT: The first thing I would like to do is make a statement for the benefit of the

between the true sides of the faults?

MR. SEIDEL: We don't have any information to confirm or deny that, Mr. Henderson. All of the production within the Pineview Field is within this grobin block cretacious interval, and there have been no wells drilled outside of it so we had no pressure measurements outside of the grobin well.

If I could take the liberty, I could draw on the blackboard in general what I am talking about.

MR. CHAIRMAN: I would appreciate that.

MR. SEIDEL: The Pineview Field, as I said, occurs in what is known as a grobin fault. All of the formations within these two faults are the productive formations that are between the grobin. Now the Stump Formation lies say at some interval like this and on down in through here. You find your jurrasic formation and the Twin Creek and the Nugget. These formations have fallen down through geologic time, and say your jurrasic over here may be at some depth up in here. They don't necessarily lie along side each other across these faults. We haven't done any drilling outside of this grobin block in the Pineview. We can't give

stream down the annules between the open hole and the nine and five-eighths and tied the cement and then circulated the cement from then on up from the surface. I know of no area that requires the bond log on surface pipe, but every place does require that all surface pipe set to protect fresh waters be cemented to the surface which we have done in all of our wells. One other item I might re-emphasize what Jack brought out about the formations in the area that produce oil and gas, the Kelvin-Frontier Reservoir up to a depth of 3,000 feet is productive of oil and gas within the field limits.

MR. FEIGHT: In other words, Mr. Seidel, if the water would migrate up the annules, you still have the Kelvin Formation above the Stump?

MR. SEIDEL: Which is productive of gas.

MR. FEIGHT: Which is productive of oil and gas.

MR. SEIDEL: Yes.

MR. CHAIRMAN: Jack, do you have any more questions?

MR. FEIGHT: No.

MR. CHAIRMAN: Let's take a five minute recess at this time.

MR. SEIDEL: They would all migrate to the surface because it is less dense in the water and they would flow up through the fault to the surface.

MR. FEIGHT: In other words, none of this water that you are disposing of is going to migrate up to any of the surface water?

MR. SEIDEL: No, sir.

MR. McINTYRE: In other words, these faults aren't determinable on the surface?

MR. SEIDEL: No. In fact, we can't find any of these faults at the Stump level to the surface. Those faults would have very low flows; they started at depth; go for a given period and then just deteriorate. They are very low.

MR. JUVELIN: Jack mentioned in his statement a while back that he was recommending the pumping pressure be restricted to 2,500 pounds; does that create a problem?

MR. SEIDEL: It may. Until we actually get injection established or are able to monitor the pressures for a period of time, it's difficult to answer that question. What it may do in the future, we cannot get the volumes in as required in the two wells at the 2,500; we may have to come

L 'oid
L Barold . Industries, Inc
O Box 1675 ouston, Texas 77001

WATER ANALYSIS REPORT

BAROID TREATING CHEMICALS

RECEIVED
APR 10 1987
DIVISION OF
OIL, GAS & MINING

Judd # 34-2

SHEET NUMBER

OMPANY: Champlin Petroleum 2N 6E Sec 34

DATE: 2/19/87

IELD: Pineview

COUNTY OR PARISH: Summit

STATE: Utah

EASE OR UNIT: Transfer Plant

WELL(S) NAME OR NO.:

WATER SOURCE (FORMATION):

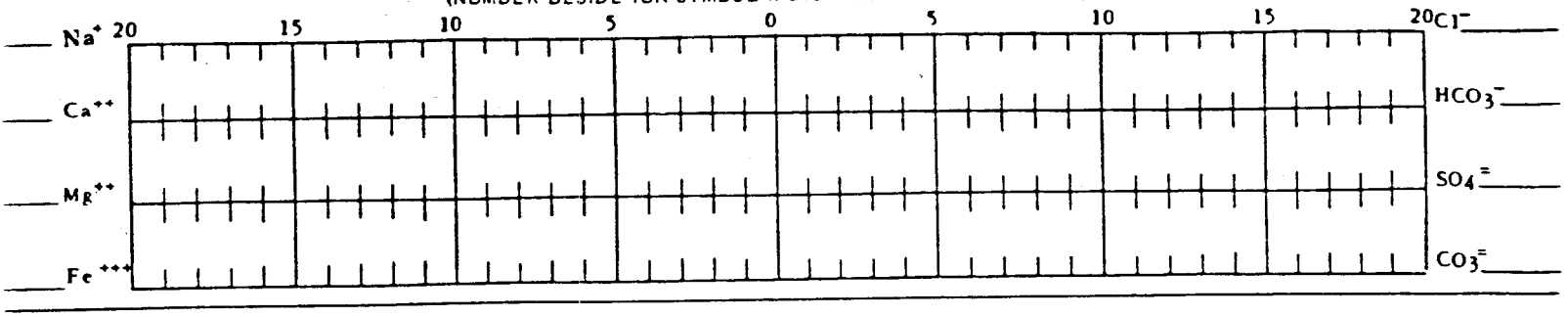
EPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY
		Filter outlet				

ATE SAMPLED: 2/19/87

TYPE OF WATER: ☐ PRODUCED ☐ SUPPLY ☐ WATERFLOOD ☒ SALT WATER DISPOSAL

WATER ANALYSIS PATTERN

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



DISSOLVED SOLIDS

ATIONS	me/l*	mg/l*
otal Hardness	88	
alcium, Ca ++	49.6	992
agnesium, Mg ++	38.4	468.48
on (Total) Fe +++		10
arium, Ba ++		
odium, Na+ (calc.)	294.13	6764.99
ANIONS		
hloride, Cl-	371.83	13200
ulfate, SO4=	87.5	4200
arbonate, CO3=	0	0
icarbonate, HCO3-	10.8	658.8
ydroxyl, OH-	0	0
ulfide, S=	0	0

DISSOLVED GASES

Hydrogen Sulfide, H_2S		mg/l*
Carbon Dioxide, CO_2		mg/l*
Oxygen, O_2		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		
@ ___ F		
$CaSO_4$ Solubility @ ___ F		mg/l*
@ ___ F		mg/l*
Max. $CaSO_4$ Possible (calc.)		mg/l*
Max. $BaSO_4$ Possible (calc.)		mg/l*
Residual Hydrocarbons		ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

ron 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	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
Patrick O'Rourke	810	Evanston, Wy.	(307) 789-1355	789-6541

ANALYZED | DATE | DISTRIBUTION: ☐ CUSTOMER ☐ ETC ENGINEER OR ☐ AREA OR ☐ BTC LAB ☐ DISTRICT OFFICE ☐ ETC SALES SUPERVISOR

NL Baroid
NL Baroid/NL Industries, Inc.
P.O. Box 1675, Houston, Texas 77001

BAROID TREATING CHEMICALS

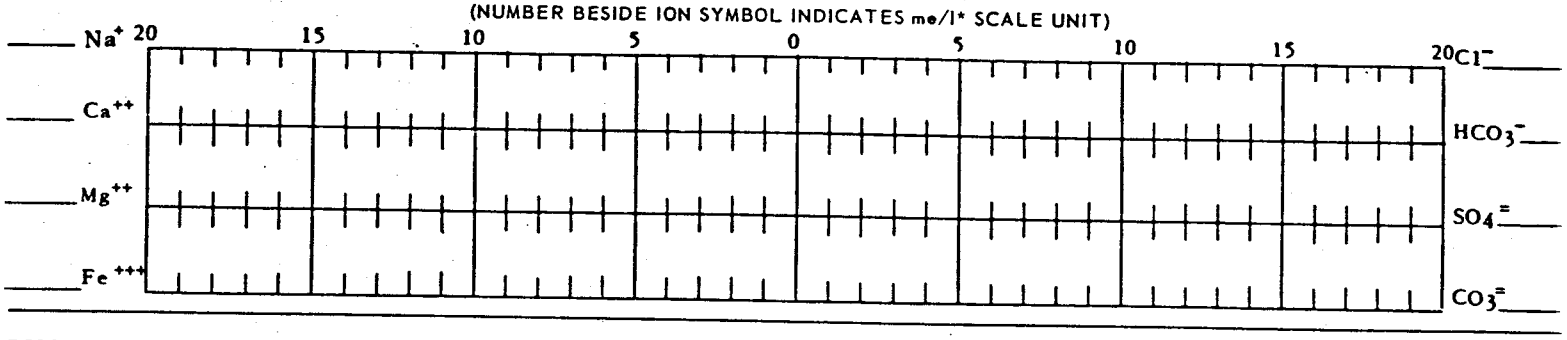
WATER ANALYSIS REPORT

RECEIVED
APR 10 1987
DIVISION OF
OIL, GAS & MINING

COMPANY: CHAMPLIN PETROLEUM COMPANY			SHEET NUMBER:
			DATE: 4/6/87
FIELD: PINEVIEW		COUNTY OR PARISH: SUMMIT	STATE: UTAH
LEASE OR UNIT: LODGEPOLE	WELL(S) NAME OR NO.: Judd 34-2	WATER SOURCE (FORMATION): Co-mingled	
DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F
WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED: 4/2/87	TYPE OF WATER: [X] PRODUCED [ ] SUPPLY [ ] WATERFLOOD [X] SALT WATER DISPOSA		

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^{++}	26.7	534.0
Magnesium, Mg^{++}	10.0	122.0
Iron (Total) Fe^{+++}	0.7	12.5
Barium, Ba^{++}	0	0
Sodium, Na^{+}(calc.)	478.0	10,994.0

ANIONS	me/l*	mg/l*
Chloride, Cl^{-}	504.2	17,900.0
Sulfate, $SO_4^{=}$	0	0
Carbonate, $CO_3^{=}$	0	0
Bicarbonate, HCO_3^{-}	11.2	683.2
Hydroxyl, OH^{-}	0	0
Sulfide, S=	trace	0.4

DISSOLVED GASES

Hydrogen Sulfide, H_2S		mg/l*
Carbon Dioxide, CO_2		mg/l*
Oxygen, O_2		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		
$CaSO_4$ Solubility @ ___ F		mg/l*
@ ___ F		mg/l*
Max. $CaSO_4$ Possible (calc.)		mg/l*
Max. $BaSO_4$ Possible (calc.)		mg/l*
Residual Hydrocarbons		ppm(Vol/Vo

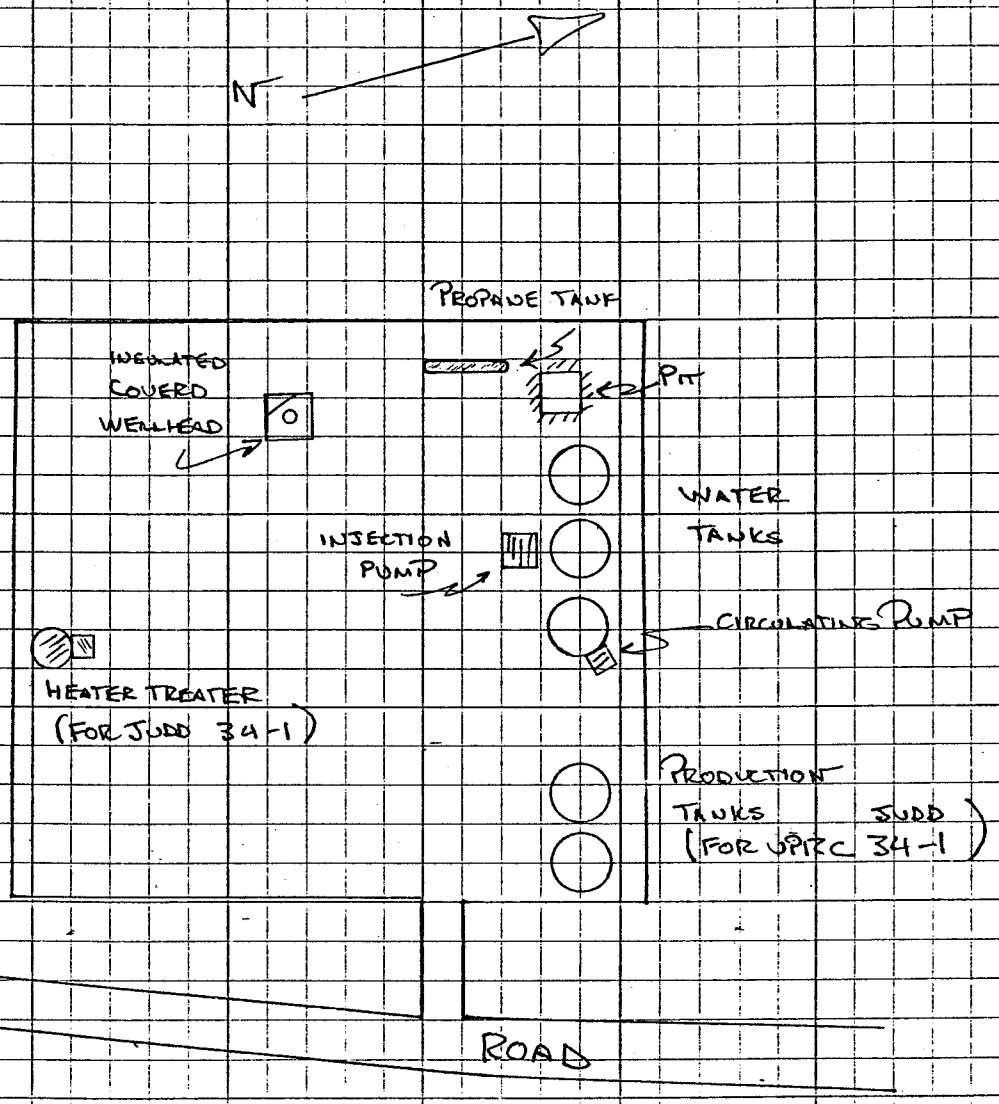
SUSPENDED SOLIDS (QUALITATIVE)

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:

BTC ENGINEER	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
Pat O'Rourke	810	Rock Springs	382-3466	
ANALYZED	DATE	DISTRIBUTION [ ] CUSTOMER [ ] AREA OR [ ] DISTRICT OFFICE [ ] BTC ENGINEER OR [ ] BTC LAB [ ] BTC SALES SUPERVISOR		


N
PROPANE TANK
INSULATED
COVERED
WELLHEAD
PIT
WATER
TANKS
INJECTION
PUMP
CIRCULATING PUMP
HEATER TREATER
(FOR JUDD 34-1)
PRODUCTION
TANKS
(FOR JUDD
UPRC 34-1)
ROAD

UIC

Union Pacific Resources
A Subsidiary of Union Pacific Corporation

May 22, 1987

RECEIVED
MAY 2. 1987
DIVISION OF
OIL, GAS & MINING

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

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

Form OGC-1b

SUBM (C TRIPLICATE* structions on reverse side)

TATE 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.)

MAR 07 1988

DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: Fee W/W

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 030913

1. OIL WELL [X] GAS WELL [ ] OTHER Saltwater Disposal

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: UNION PACIFIC RESOURCES COMPANY

8. FARM OR LEASE NAME: Judd

3. ADDRESS OF OPERATOR: P.O. Box 700 Rock Springs, WY 82902-0700

9. WELL NO.: 34-1, 34-2 SWDW, 34-3

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
Judd 34-1 SENE Sec. 34
Judd 34-3 SESW Sec. 34
Judd 34-2 SWDW SENW Sec. 34

10. FIELD AND POOL, OR WILDCAT: Lodgepole Nugget

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 34, T2N, R7E

14. PERMIT NO. 43-043-30081

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

12. COUNTY OR PARISH: Summit

13. STATE: Utah

16. 2N 6E 34 **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Return to production			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

The Judd 34-3 and Judd 34-2 SWDW were returned to operation February 25, 1988. The Judd 34-1 was put on production February 28 following a pump pull. Due to current favorable weather, the wells will remain on indefinitely.

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

SIGNED Keith J. Nosich TITLE Petroleum Engineer DATE March 3, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

Enforcement

April 21, 1989

CERTIFIED RECEIPT REQUESTED

Union Pacific Resources Co.
P.O. Box 700
Rock Springs, WY 82901

Gentlemen:

Re: Judd 34-2 Disposal Well, Section 34, Township 2 North, Range 6 East, Summit County, Utah

Recent field inspections and the review of monthly reports indicates that the referenced well has a packer and/or tubing leak and does not demonstrate the required mechanical integrity. If continued use of the well for disposal is planned, it will be necessary to perform repairs to the well to achieve the required mechanical integrity.

Please make arrangements to initiate repairs to the well within 60 days of receipt of this letter. If this schedule cannot be met or you would like to discuss the matter, please call this office.

Sincerely,

Gil Hunt
UIC Manager

43-043-30081

bld/GHL
UI1/94

an equal opportunity employer

LDC

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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 1, 1993

Union Pacific Resources Co.
P.O. Box 527
Coalville, Utah 84017

Gentlemen:

Re: Pressure Test for Mechanical Integrity, #3-5, #5-1, #4-1, Bingham #1, Judd #34-2, Salt Water Disposal Wells, Pineview and Lodgepole Fields, Summit County, Utah

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. It has been past policy of the Division to require pressure testing of all Class II salt water disposal wells and other injection wells not reporting monthly annulus pressures in accordance with rule R649-5-5.3 of the Oil and Gas Conservation General Rules. This rule requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Our records indicate the above referenced wells are due for testing for the second five year period. Please make arrangements and ready the wells for testing during the week of June 28, 1993 as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.

2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.

3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.

5. All bradenhead valves with exception of the tubing on the injection wells must be shut in 24 hours prior to testing.

Please contact Mr. Dan Jarvis at (801)538-5340 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,

Gil Hunt
UIC Program Manager

ldc
Attachment
WOI52

43-043-30081

August 10, 1993

Judd 34-2
NW/4 Sec 34, T2N-R6E
Summit County, Utah

Well Data:

Current Status: Inactive
$17^1/_2$" hole, $13^3/_8$" csg SA 48', cmt w/ 6 yds Ready Mix
$12^1/_4$" hole, $9^5/_8$" csg SA 2018', cmt w/ 1700 sxs
$8^3/_4$" hole, $5^1/_2$" csg 17# & 20# SA 11,817', cmt w/ 2146 sxs TOC 7287'
Baker R-3 set @ 8354' w/ 20 M# comp. 270 jts $2^7/_8$" N-80 6.5# tbg.
Open Perfs 8628' to 8730'.
Geologic Tops: Kelvin 1620', Stump 6213', Preuss 8808', Twin Creek 10206', Nugget 11,702'

Plugging Operations expected to commence August 30, 1993

Note: See attached wellbore schematic for additional well data.

Plug and Abandon

1. MIRU WSU. Check press on tbg and csg. ND tree, NU BOP. Unset Baker R-3 @ 8354'. Circ hole with noncorrosive mud from Urroz No. 1 location. POOH & stand back tbg (visually inspect tbg and replace w/ workstring if unsuitable for P&A operations). LD pkr.

2. MIRU WLU. Set CIBP @ 10,206'(top of Twin Creek), dump 11 sxs cmt (Yld 1.175 ft³, 5.7 gal + 1 sx Cl H). Set CICR @ 8400'. RDMO WLU. RIH w/ CICR stinger on tbg, M&P 75 sxs cmt, disp t/ CICR, dump 1 bbl cmt on CICR.

Top of Stump 4600- 4500 Top of Aspen

3. Set 100' (11 sxs Class H) balanced plugs centered at ~~6213'~~ (~~Stump~~), 2018'(Surf csg shoe) & ~~1620'(Kelvin)~~. Set 10 sxs plug at surf in $5^1/_2$" prod csg, $9^5/_8$" csg annulus and $13^3/_8$" csg annulus and cut off WH 3' below GL.

4. Erect P&A marker as follows: Marker to be made of 4" pipe, 15' long, orange peeled on top completely sealing the top off. The marker should have "Judd 34-2 SWD, NW/4, Sec 34, T2N-R6E, Summit County, Utah" permanently written on it. The marker should be embedded in the surf plug with at least 4' showing above GL.

cc: M.P. Staub (Evanston), P.R. Smith (Pineview), Central File
c:\wp51\pro\pa34-2.pro

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8-31-93
BY: [signature]

Approved as per ~~approved~~ ATTACHED Stips.

RECEIVED
AUG 19 1993
REGULATORY DEPARTMENT

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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

STIPULATIONS FOR PLUGGING AND ABANDONMENT
Judd 34-2 SWD
NW/4 Sec. 34-T2N-R6E
API #43-043-30081

After step #2, step #3 should read as follows:

3. Set 100' balanced plugs 4600'-4500', 2068'-1968' (surface csg shoe). Set 10 sk plug at surface in 5 1/2" prod. csg. Fill all annuluses to the surface with cement. Cut off WH 3' below GL.

DOGM should be given 24 hrs Notice in order to witness plugging. JBM 8/31/93

August 10, 1993

Judd 34-2
NW/4 Sec 34, T2N-R6E
Summit County, Utah

Well Data:

Current Status: Inactive
$17^1/_2$" hole, $13^3/_8$" csg SA 48', cmt w/ 6 yds Ready Mix
$12^1/_4$" hole, $9^5/_8$" csg SA 2018', cmt w/ 1700 sxs
$8^3/_4$" hole, $5^1/_2$" csg 17# & 20# SA 11,817 cmt w/ 2146 sxs TOC 7287'
Baker R-3 set @ 8354' w/ 20 M# comp. jts $2^7/_8$" N-80 6.5# tbg.
Open Perfs 8628' to 8730'.
Geologic Tops: Kelvin 1620', Stump 6213', Preuss 8 , Twin Creek 10206',
Nugget 11,702'

Plugging Operations expected to commence August 30, 1993

Note: **See attached wellbore schematic for additional well data.**

Plug and Abandon

1. MIRU WSU. Check press on tbg and csg. ND tree, NU BOP. Unset Baker R-3 @ 8354'. Circ hole with noncorrosive mud from Urroz No. 1 location. POOH & stand back tbg (visually inspect tbg and replace w/ workstring if unsuitable for P&A operations). LD pkr.

2. MIRU WLU. Set CIBP @ 10,206'(top of Twin Creek), dump 11 sxs cmt (Yld 1.175 ft³, 5.7 gal + 1 sx Cl H). Set CICR @ 8400'. RDMO WLU. RIH w/ CICR stinger on tbg, M&P 75 sxs cmt, disp t/ CICR, dump 1 bbl cmt on CICR. Top of Stump 4600-4500 Top of Aspen

3. Set 100' (11 sxs Class H) balanced plugs centered at ~~6213'~~ (~~Stump~~), 2018'(Surf csg shoe) & ~~1620'(Kelvin)~~. Set 10 sxs plug at surf in $5^1/_2$" prod csg, $9^5/_8$" csg annulus and $13^3/_8$" csg annulus and cut off WH 3' below GL.

4. Er P&A marker as follows: Marker to be made of 4" pipe, 15' long, peeled on top completely sealing the top off. The marker d have "Judd 34-2 SWD, NW/4, Sec 34, T2N-R6E, Summit County, Utah" permanently written on it. The marker should be embedded in the surf plug with at least 4' showing above GL.

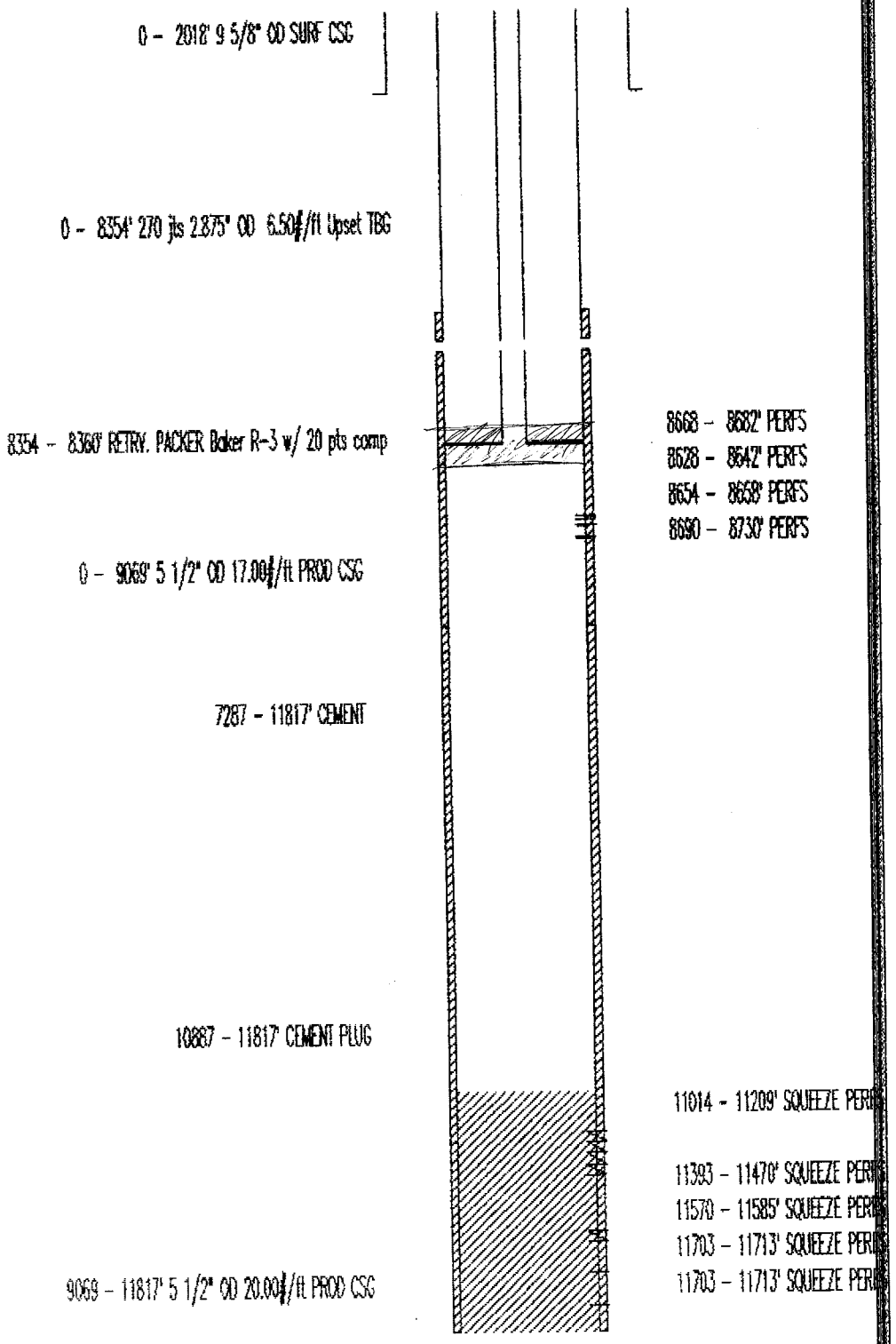
Evanston), P.R. Smith (Pineview), Central File
-2.pro

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8-31-93
BY: [signature]

Approved as per ~~approved~~ ATTACHED stips.

RECEIVED
AUG 19 1993
REGULATORY
DEPARTMENT

Judd 34-2 SWD
34-2N-6E
Summit County, Utah



KB ELEV: 7387'
PBTD: 10887'
TD: 11817'

Union Pacific Resources
A Subsidiary of Union Pacific Corporation

FACSIMILE TRANSMISSION

UNION PACIFIC RESOURCES COMPANY

FAX NO: 801/359-3940 LOCATION: Utah Dept of Natural Resources

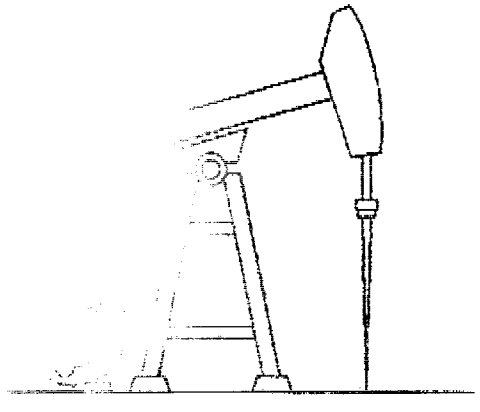
TO: Frank Matthews DATE: 8/31/93 TIME:

FROM: Rechelle Montgomery TELEPHONE #(817) 877-7952

NUMBER OF PAGES 2 + COVER

REMARKS:

PLEASE NOTE: The information contained in this facsimile is privileged and confidential, and is intended only for the use of the individual named above and others who have been specifically authorized to receive such. If the recipient is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone.



ANY PROBLEMS CALL:

KELLEY 817-877-7931

SUSAN 817-877-7949

FAX NO.: 817-877-7942

UPRC-ELKHORN UPRR 19-2X 80 400726 P.01

43043-30081

TO: FRANK MATTHEWS

FROM: FRED McDOUGAL
RIG PHONE (801) [illegible] 0726

806

TO: FRANK MATTHEWS

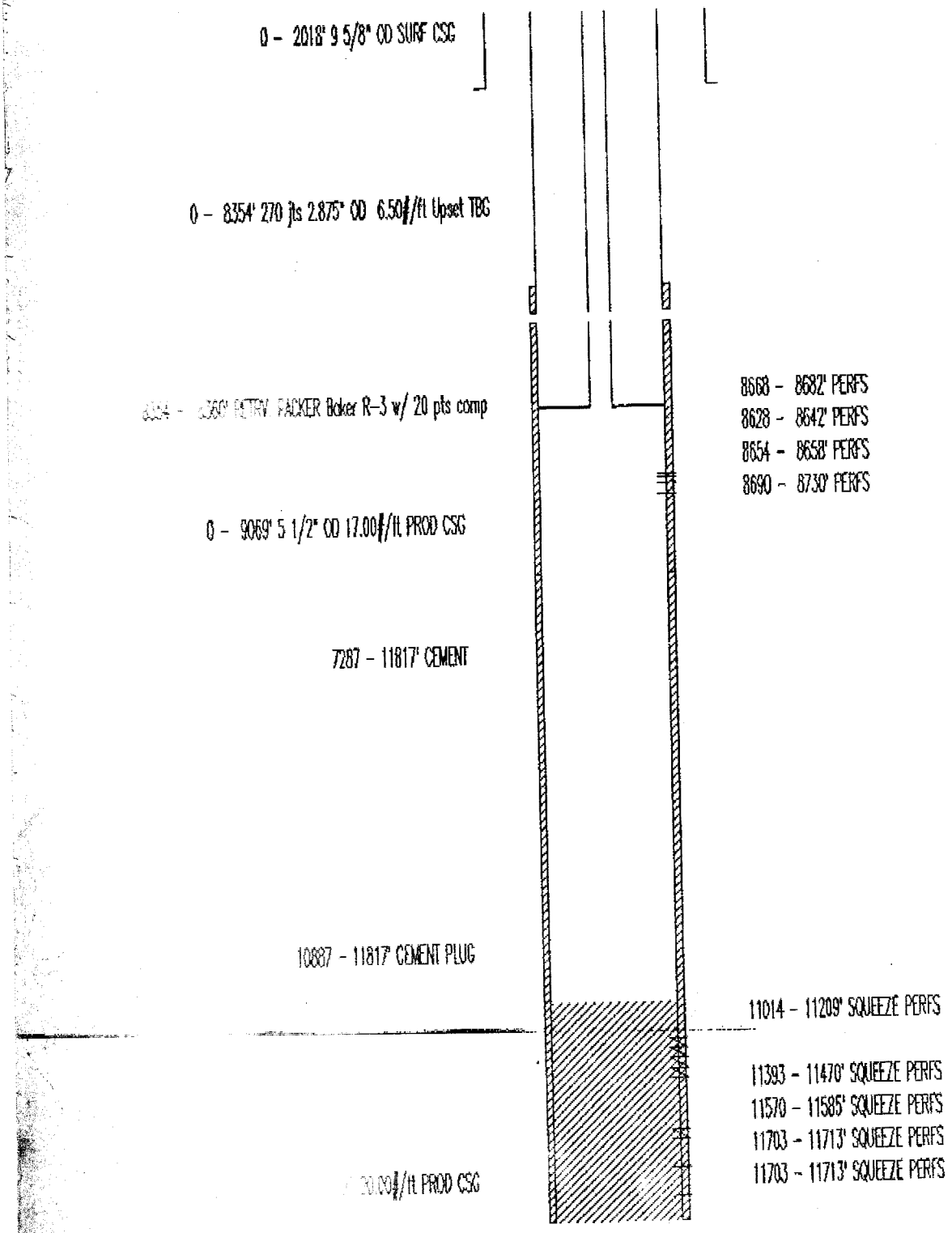
FROM: FRED McDOUGAL
RIG PHONE (801) 640-0726

TO: FRANK MATTHEWS

FROM: FRED MCDOUGAL

RIG PHONE (801) 640-0726

Judd 34-2 SWD
34-2N-6E
Summit County, Utah



JUDD 34-2 43-043-30081 9/22/93
P&A PROCEDURE Sec 34 T2N R6E

1) MIRU HALLIBURTON. ESTABLISH INJ RATE DOWN TUBING. M&P 40 SXS CMT. DISPLACE T/ 8354'.
2) RELEASE OVERSHOT & REV CIRC CLEAN OR POOH IF CIRC NOT ESTABLISHED. REPLACE PACKOFF IF PULLED OUT OF HOLE.
3) REENGAGE OVERSHOT. RU WIRELINE & SET CIBP IN TUBING @ 4650' IF POSSIBLE. PERF TBG 4602'-4600', 2 SPF. ESTABLISH INJ RATE DOWN T[illegible] M&P 40 SXS CMT, DISPLACE TO 43[illegible]
4) RELEASE OVERSHOT. REV [illegible] POOH, LD OVERSHOT.
5) RIH OPEN ENDED & SET [illegible] 2068'-1968'. SET 10 SX SURFACE PLU[illegible] CSG. FILL ANNULUS TO SURF W/ CMT. CUT OFF WH 3' BELOW GL.

Intent to P&A Union Pacific

THIS PROCEDURE RESULTS IN THE FOLLOWING PLUGS ASSUMING NO TUBING LEAKS:

8730'-8354' (BTM STUMP PERF → MOD 'R' PKR)

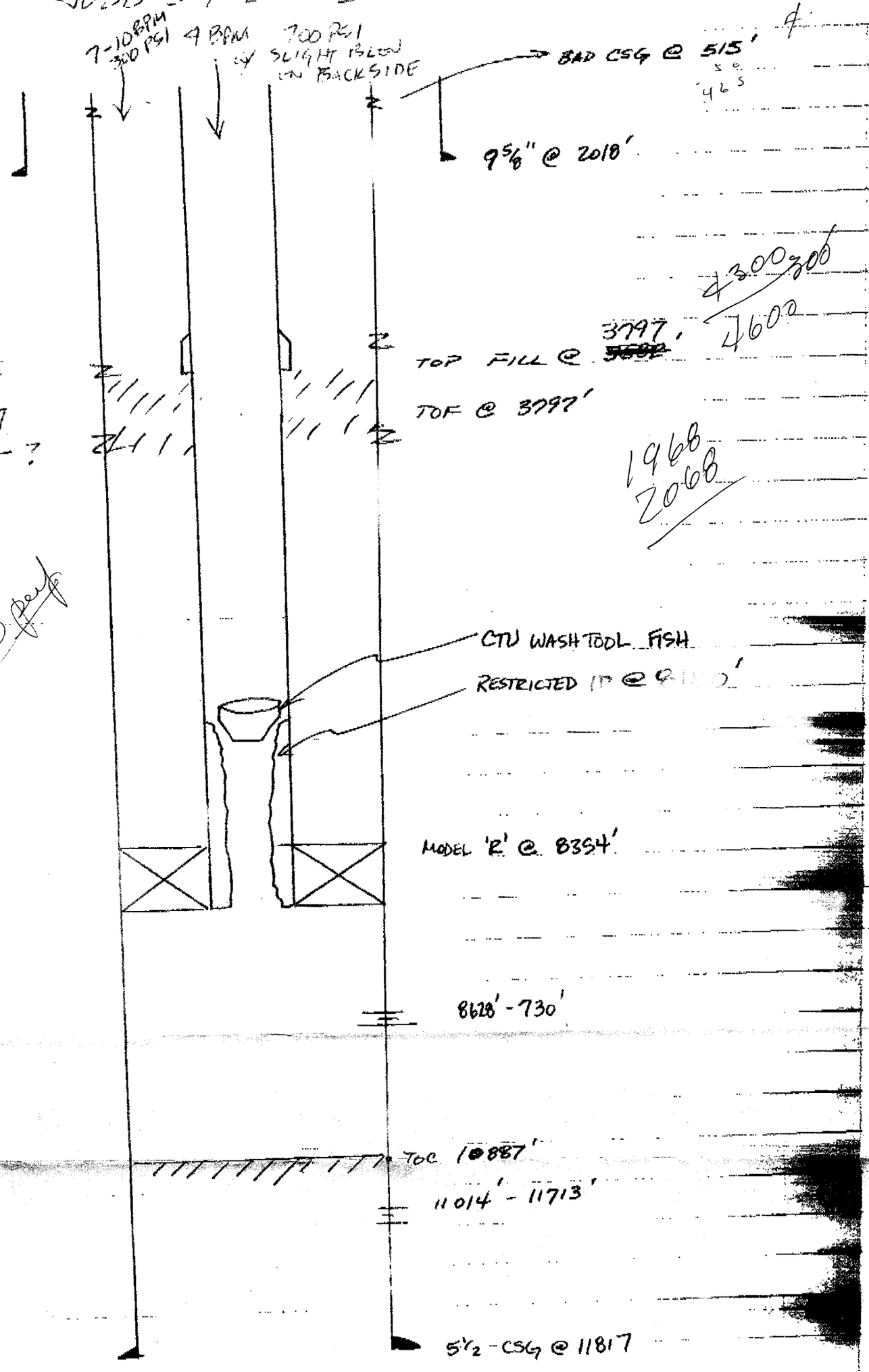
4600' 4300' (INSIDE & OUTSIDE TBG)

[illegible] 1968' (100' SURF CSG SHOE PLUG)

[illegible] SURF PLUG.

NOTE: SOME OF THE TBG REC FROM THIS WELL HAS BEEN SEVERLY PITTED w/ OCCASIONAL DIME SIZE HOLES IN TBG.

JUDD 34-2 SWD


7-10 BPM 300 PSI
4 BPM 700 PSI
SLIGHT BLOW ON BACKSIDE
BAD CSG @ 515'
9 5/8" @ 2018'
TOP FILL @ 3797'
TOF @ 3797'
POSSIBLE BAD CSG ~ 3200' - ?
CTU WASH TOOL FISH
RESTRICTED ID @
MODEL 'R' @ 8354'
8628' - 730'
TOC @ 8887'
11014' - 11713'
5 1/2 - CSG @ 11817

JUDD 34-2 9/22/93

P&A PROCEDURE

1) MIRU HALLIBURTON. ESTABLISH INJ RATE DOWN TUBING. M&P 40 SXS CMT. DISPLACE T/ 8354'.
2) RELEASE OVERSHOT & REV CIRC CLEAN OR POOH IF CIRC NOT ESTABLISHED. REPLACE PACKOFF IF PULLED OUT OF HOLE.
3) REENGAGE OVERSHOT. RU WIRELINE & SET CIBP IN TUBING @ 4650' IF POSSIBLE. PERF TBG 4602'-4600', 2 SPF. ESTABLISH INJ RATE DOWN TBG. M&P 40 SXS CMT, DISPLACE TO 4300'.
4) RELEASE OVERSHOT. REV CIRC CLEAN & POOH. LD OVERSHOT.
5) RIH OPEN ENDED & SET 12 SXS PLUG 2068'-1968'. SET 10 SX SURFACE PLUG IN 5½" CSG. FILL ANNULUS TO SURF W/ CMT. CUT OFF WH 3' BELOW GL.

THIS PROCEDURE RESULTS IN THE FOLLOWING PLUGS ASSUMING NO TUBING LEAKS:

8730'-8354' (BTM STUMP PERF → MOD 'R' PKR)

4600'-4300' (INSIDE & OUTSIDE TBG)

2068'-1968' (100' SURF CSG SHOE PLUG)

~ 100' SURF PLUG.

NOTE: SOME OF THE TBG REC FROM THIS WELL HAS BEEN SEVERLY PITTED W/ OCCASIONAL DIME SIZE HOLES IN TBG.

JUDD 34-2 9/22/93

P&A PROCEDURE

1) MIRU HALLIBURTON. ESTABLISH INJ RATE DOWN TUBING. M&P 40 SXS CMT. DISPLACE T/ 8354'.
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3) REENGAGE OVERSHOT. RU WIRELINE & SET CIBP IN TUBING @ 4650' IF POSSIBLE. PERF TBG 4602'-4600', 2 SPF. ESTABLISH INJ RATE DOWN TBG. M&P 40 SXS CMT, DISPLACE TO 4300'.
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THIS PROCEDURE RESULTS IN THE FOLLOWING PLUGS ASSUMING NO TUBING LEAKS:

8730'-8354' (BTM STUMP PERF → MOD 'R' PICR)

4600'-4300' (INSIDE & OUTSIDE TBG)
* 3797-3697' 100' bal plug inside 5½ csg.
2068'-1968' (100' SURF CSG SHOE PLUG)
* 565-465' 100' bal plug inside 5½ csg.
& 100' SURF PLUG.

NOTE: SOME OF THE TBG REC FROM THIS WELL HAS BEEN SEVERLY PITTED W/ OCCASIONAL DIME SIZE HOLES IN TBG.

* additional plugs.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS AND MINING
DATE: 9-22-93
BY: [illegible]

Session II -- *Current Activities in Problem Scoping(1:30 pm)*

Purpose: Summarize ongoing activities for assessing and inventorying the magnitude and characteristics of problem sites including status of state and federal agency actions and approaches.

Panel discussion (no more than 10 minutes each)

Moderator	Fred Banta, Lac Minerals*
Value and use of inventories	Dick Juntunen, consultant to WGA*
Federal activities	Rob Robinson, BLM*
State's needs	Gary Beach, WY *
Other perspectives	Paul Robinson, SWR&I*
	and Joe Danni, Placer Dome**

Session III -- *Available Remedial Technologies and Practices (3:30pm)*

Purpose: Presentation of pertinent remedial technologies and practices available for inactive mine waste cleanup and their application to a range of cleanup settings.

Panel discussion (no more than 20 minutes each)

Moderator:	Nick Ceto, EPA*
Status of technologies development	Bill Schmidt, USBM*
Technology development activities	Ron Cohen, CSM*
Applications of technologies and practices	Jim Herron, CO*
	Gene Farmer, USFS*
Application of coal technologies to hardrock cleanup	Carolyn Johnson **

Dinner — Western BBQ

November 17, 1993

Session IV -- *Approaches to / Experiences with Cleanup (8 am)*

Purpose: Discussion of various approaches and experiences to date relative to inactive hardrock mine waste cleanup including activities

conducted by state and other interests, and related matters including EPA emphasis, legislative trends, baseline information, regulatory/liability, and other issues and options.

Panel discussion (no more than 20 minutes each)

Moderator	Mary Ann Wright, (UT)*
Summary of State / Fed activities	Galen Knutsen, USBM*
Pertinent Issues / Options	Gary Broetzman, CCEM*
State program development, Montana experience	Gary Amestoy, MT*
Animas River basin	Dave Holm, CDH*
Coeur d'Alene River basin	Al Murrey, U of Id*
South Dakota experience	Tom Durkin, SD*
EPA perspective	Rob Walline, EPA*

Luncheon Speaker (11:30 am) Jim Souby, WGA**

Session V *Agreements, Opportunities, and Challenges (1:00pm)*

Purpose: Workshop participants would convene into breakout groups to discuss assigned questions relative to points of opportunities and challenges emerging from the previous sessions . (The intent is to have each of the groups be composed of multi-stakeholders to provide interchange of diverse views. Each group may have different set of questions relative both to the workshop topics, future needs, and possible barriers.)

Summary reports from breakout groups (2:45 pm)

Moderator Howard Kenison, Chair of Board, CCEM

Wrap-up and Adjournment (3:15 pm) CCEM rep

Adjourn (3:30 pm)

* accepted

** invited

Form 9

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

6. Lease Designation and Serial Number	N/A
7. Indian Allottee or Tribe Name	N/A
8. Unit or Communitization Agreement	N/A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals.

DEC 06 1993
DIVISION OF OIL, GAS & MINING

1. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Other (specify) SWD	9. Well Name and Number: Judd 34-2
2. Name of Operator: Union Pacific Resources Company	10. API Well Number: 43-043-30081
3. Address of Operator: P.O. Box 7 MS 3407, Fort Worth, TX 76101-0007 — 4. Telephone Number: (817)877-6530	11. Field and Pool, or Wildcat: Lodgepole

5. Location of Well
Footage : 1979'FNL & 2163'FWL — County : Summit
QQ, Sec, T., R., M. : SW/SE Sec. 34-2N-6E — State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- ☐ Abandonment
- ☐ Casing Repair
- ☐ Change of Plans
- ☐ Conversion to Injection
- ☐ Fracture Treat
- ☐ Multiple Completion
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recompletion
- ☐ Shoot or Acidize
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate Date Work Will Start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- ☒ Abandonment *
- ☐ Casing Repair
- ☐ Change of Plans
- ☐ Conversion to Injection
- ☐ Fracture Treat
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Shoot or Acidize
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of Work Completion 9/23 - 10/1, 1993

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MIRU. Pressure test lines to 3300 psi. Establish injection rate at 3.5 BPM 625 psi. M & P 40 sxs cmt. Displace w/ 47 bbls. FW to 8354'. Release overshot. Attempt to reverse circulation. No circ. POOH w/ os. Set tubing plug at 4650. Perf tubing at 4602'-4600' 2 SPF Est. injection rate into tubing perf 1.5 BPM, 400 psi. M & P 40 sxs. cmt., displace to 4300'. SITP = 100 psi. Release overshot, LD 1 jt, EOT 3787'. Set 12 sxs. plug 3687'-3787'. POOH. EOT at 2068' M & P 12 sxs, set balance plug 2068'-1968'. POOH w/ EOT at 565'. M & P 25 sxs set balance plug 565'-465'. Displace with 2 bbl. SD tubing on vacuum, allow cmt. to drop. Will tag plug. RIH w/tubing & tag TOC at 2800'. POOH. LD 24 jts. Set 50 sxs balance plug 2068'-1620' and 50 sxs plug 565'-117'. POOH and stand back 18 jts. Tag TOC at 1500'. Pump down 5 ½" and circ. 2 bbls. up 9 5/8". RIH w/ tubing & tag TOC at 472'. Jimmie Thompson, Utah DOGM authorized proceeding to set surface plugs. POOH & LD tubing. Cut 9 5/8" & 5 1/2" casing & remove casing head. Pump 40 sxs class "G" w/ 12% Thixad & 1% $CaCl_2$ down 5 1/2" & 9 5/8" annulus. Follow w/ 20 sxs class G neat, annulus full. M & P 30 sxs class G down 1" tubing, spotting 100' surface plug in 5 1/2" casing. Top out annulus plug w/ 20 sxs class "G". WOC. Top out annulus plug w/ 35 sxs. class "G" w/ 3% $CaCl_2$. Plug held. Weld on plate & P&A marker.

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

Name & Signature Cami Minzenmayer Cami Minzenmayer Title Regulatory Analyst Date 11-16-93

(State Use Only)

(8/90) See Instructions on Reverse Side

DEC 0 6 1995

ACCOUNTING COPY

The Western Company of North America

SERVICE ORDER AND FIELD RECEIPT NO. L266803

CUSTOMER (COMPANY NAME)	CREDIT APPROVAL NO	PURCHASE ORDER NO	CUSTOMER NUMBER	INVOICE NUMBER
Union Pacific Resources Co.		182-0140	91673	431101

MAIL INVOICE TO: P.O. Box 7 — STREET OR BOX NUMBER — CITY: FT. WORTH — STATE: TX — ZIP CODE: 76101

DATE WORK COMPLETED: MO. 9 DAY 24 YEAR 93 — WESTERN SERVICE SUPERVISOR: D. Schlemmer 04088

WELL TYPE: (CHECK ONE) 1 [ ] NEW 2 [X] OLD

WESTERN DISTRICT: Rock Springs — JOB DEPTH (FT.): 4602'

WELL CLASS: (CHECK ONE) 1 [ ] OIL 2 [ ] GAS 3 [X] DISPOSAL 4 [ ] INJECTION

WELL NAME AND NUMBER: Judd Well 34-2 — TD WELL DEPTH (FT.): 8354

GAS USED ON JOB: (CHECK ONE) 1 [ ] N_2 2 [ ] CO_2 3 [X] NONE 4 [ ] BINARY

WELL LOCATION: SEC/TWP/RGE 34 2N 6E — COUNTY: Summit — STATE: Utah

JOB TYPE CODES

CEMENTING SERVICES: 10. CONDUCTOR 11. SURFACE 12. INTERMEDIATE 13. LONG 14. LINER 15. TIEBACK 16. PLUG & ABANDON 17. PLUG BACK 18. SQUEEZE 19. PUMPING (CEMENT) 20. BULK SALES (CEMENT)

STIMULATION SERVICES: 30. ACID, MATRIX 31. ACID, FRACTURE 32. FRACTURE, 0-9,999 psi 33. FRACTURE, 10,000 + psi 34. PUMPING (STIM) 35. BULK SALE (STIM) 40. SAND CONTROL 41. GRAVEL PACK TOOL SALES 42. GRAVEL PACK TOOL RENTAL

TOOL SERVICES: 50. TOOL SALE 51. TOOL RENTAL 52. TOOL REDRESS 53. TOOL SERVICE

1 | 6 | PI

K1006	Mileage Charge Pump	1 x 150	Unit Miles	150 0	2 75	412 50	30 0	
K1026	Mileage Charge Pick-up	1 x 150	Unit Miles	150 0	1 45	217 50		
F0616	Pump Charge @ 4602'	1st 8 hrs	Unit	1 0	2105 00	2105 00		
P0876	Additional Hours Pump		Unit Hours	-0-	277 00	N/C		
M1006	Service Charge		FT^3	89 0	1 25	111 25		
M2306	Delivery Charge	5.92 x 150	Ton Miles	888 0	85	754 80		
M2326	Additional Hours Bulk Truck		Unit Hours	-0-	47 10	N/C		
P43-35	Premium Cement "G" 11844#	89 FT^3	Sack	89 0	8 50	756 50		
P05-33	$CaCl_2$		lb	43 0	39	16 77		
	Total Field Estimate					4374 32	30 0	3062 03
						1312 29		
								1831 74
								3245 77

Thanks Dan & Crew

ARRIVE LOCATION: MO. 9 DAY 24 YEAR 93 TIME 8:00 AM

CUSTOMER REP. LAST NAME: Mr. McDougal

SEE REVERSE SIDE FOR GENERAL TERMS AND CONDITIONS

SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND CONDITIONS PRINTED ON THE REVERSE SIDE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

CUSTOMER AUTHORIZED AGENT

SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.

CUSTOMER AUTHORIZED AGENT: X [signature]

WESTERN APPROVED: X [signature]

WCNA 1168 10/91-25M

THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

DEC 06 1993

CUSTOMER: Mid Phoenix Resources Co	DATE: 11-24-93	TICKET NO.	TYPE JOB: P&A
LEASE & WELL NAME-OCSG: Sunset Grill 34-2	LOCATION: 34		COUNTY-PARISH-BLOCK: Sumner
DISTRICT: Rose Springs	DRILLING CONTRACTOR-RIG #:		OPERATOR: UPRC

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS TOP	TYPE OF PLUGS BTM	LIST-CSG-HARDWARE	SQ MANI FOLD Y N	TOP OF EACH FLUID	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
		-	-								
Plug #1 @ 4602' 40 sx G neat						15.6	1.17	5.19	4:30	8.3	5
Plug #2 @ 3797' 12 sx G						15.6	1.17	5.19	4:45	2.5	1.5
Plug #3 @ 2068' 12 sx G						15.6	1.17	5.19	5:00	2.5	1.5
Plug #4 @ 565' 25 sx G + 2% CaCl₂ (mix water)						15.6	1.17	5.19	8:00	5.2	3
Plug #5 @ surface 12 sx G						15.6	1.17	5.19		2.5	1.5
Plug #6 @ 5½ x 9⅝ Annulus 25 sx G						15.6	1.17	5.19		5.2	3
									TOTAL	18.5	11

Available Mix Water 100 Bbl. Available Displ. Fluid 200 Bbl.

HOLE SIZE	% EXCESS	DEPTH	TBG/CSG/D.P. SIZE	WGT.	TYPE	DEPTH	TBG/CSG-D.P. SIZE	WGT.	TYPE	COLLAR DEPTHS DEPTH	SHOE	FLOAT	STAGE
-	-	-	5½	17#	N-80	11800	2⅞	6.5	4	4600	-	-	-

LAST CASING SIZE	WGT	TYPE	DEPTH	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
9⅝	-	-	2018	-	-	4600	4602	2⅞	EUE	H₂O	8.33

CAL DISPL. VOL.-Bbl. TBG	CSG.	CSG.	TOTAL	CAL PSI BUMP PLUG	CAL. MAX PSI TO BUMP	OP. MAX SQ. PSI	MAX TBG PSI RATED	OP.	MAX CSG PSI RATED	OP.	DISPL. FLUID TYPE	WGT.	WATER SOURCE
				-	-	750					H₂O	8.33	Tews Rig/Tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

TIME HR: MIN.	PRESSURE-PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: WPS CREW ☒ CO. REP ☒
						TEST LINES 2000 PSI
						CIRCULATING WELL-RIG ☐ WPS ☐
	Plug	#1 @	4602			
1:10 PM	0	-	1½	-	H₂O	EST. INJ. RATE
1:12	200	-	1½	4	H₂O	HOLE LOADED
1:16	400	-	1½	10	H₂O	RATE EST.
1:28	-	-	-	27	-	SHUTDOWN TO MIX CMT. TO WTR - NO CIRC.
1:32	200	-	1½	27	CMT	PUMP CEMENT @ WEIGHT 15.6 PPG
1:37	150	-	1½	35½	H₂O	START DISPLACEMENT TO 4300
1:53	300	-	-	60½	-	SHUTDOWN @ 25 DISPLACED - WATER 100 PSI
						BLEED OFF IN 5 MIN.
	Plug	#2 @	3797			
2:28	50	-	1	-	CMT	PUMP CEMENT @ WEIGHT 15.6 PPG
2:32	100	-	2½	3	H₂O	START DISPLACEMENT - (BLDG CIRC @ 16 BBLS DISP.)
2:40	-	-	-	24	-	SHUTDOWN @ 21 BBLS DISPLACED
	Plug	#3 @	2068			
3:26	-	-	-	-	-	START MIXING CEMENT TO WEIGHT.
3:29	50	-	2½	-	CMT	PUMP CEMENT @ WEIGHT 15.6 PPG
3:30	50	-	3½	2½	H₂O	START DISPLACEMENT
3:33	-	-	-	13½	-	SHUTDOWN @ 11 BBLS DISPLACED
	Plug	#4 @	565			
4:08	-	-	-	-	-	START MIXING CEMENT TO WEIGHT
4:10	50	-	2½	-	CMT	PUMP CEMENT @ WEIGHT 15.6 PPG
4:12	50	-	-	5½	H₂O	START DISPLACEMENT
4:13	-	-	-	7½	-	SHUTDOWN @ 2 BBLS DISPLACED

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP.
							CUSTOMER REP.

ACCOUNTING COPY

The Western Company of North America

SERVICE ORDER AND FIELD RECEIPT NO. L 220532

CUSTOMER (COMPANY NAME): U.P.R.C.	CREDIT APPROVAL NO:	PURCHASE ORDER NO: 182-0140	CUSTOMER NUMBER: 91673	INVOICE NUMBER: 431094
MAIL INVOICE TO: P.O. Box 7 (STREET OR BOX NUMBER)	CITY: FT WORTH	STATE: Tx	ZIP CODE: 76101	
DATE WORK COMPLETED: MO 9 DAY 27 YEAR 93	WESTERN SERVICE SUPERVISOR: Dells 01035	WELL TYPE: (CHECK ONE) ☐ NEW ☒ OLD		
WESTERN DISTRICT: Rock Springs WY	JOB DEPTH (FT.): 2068'	WELL CLASS: (CHECK ONE) ☐ OIL ☒ DISPOSAL ☐ GAS ☐ INJECTION		
WELL NAME AND NUMBER: Judd Well 34-2	TD WELL DEPTH (FT.): 8354	GAS USED ON JOB: (CHECK ONE) ☐ N_2 ☒ NONE ☐ CO_2 ☐ BINARY		
WELL LOCATION: SEC/TWP/RGE 34 - 2N - 6E	COUNTY: Summit	STATE: Utah		

JOB TYPE CODES

CEMENTING SERVICES: 10 CONDUCTOR, 11 SURFACE, 12 INTERMEDIATE, 13 LONG, 14 LINER, 15 TIEBACK, 16 PLUG & ABANDON, 17 PLUG BACK, 18 SQUEEZE, 19 PUMPING (CEMENT), 20 BULK SALES (CEMENT)

STIMULATION SERVICES: 30 ACID, MATRIX, 31 ACID, FRACTURE, 32 FRACTURE, 0-9,999 psi, 33 FRACTURE, 10,000 + psi, 34 PUMPING (STIM), 35 BULK SALE (STIM), 40 SAND CONTROL, 41 GRAVEL PACK TOOL SALES, 42 GRAVEL PACK TOOL RENTAL

TOOL SERVICES: 50 TOOL SALE, 51 TOOL RENTAL, 52 TOOL REDRESS, 53 TOOL SERVICE

K1026	Pick-Up Mileage 1 unit x 150	miles	150.0	2.75	412.50	30		
F0876	Additional Pump hours 9/27/93 1 unit	per hr	3.5	27.00	98.50			
M1006	Service Charge (104 ft³)	ft³	104.0	1.25	130.00			
M2306	Delivery Charge 4.78 tons x 150 miles	ton/miles	717.0	.85	609.45			
B43-35	Class G Cement (100 ft³) (9400#)	per sx	100.0	8.50	850.00			
P05-33	CA Cl₂ (4 ft³) (160#)	per lb	160.0	.37	62.40			
M2326	Additional Bulk Truck Hours	per hr	3.5	47.10	164.85			
				Field Est	~~3,198.40~~			~~[illegible]~~
					3,003.70			
					901.10			2,102.60
								126.15
								2,228.75

DEC 0 6 1993

ARRIVE LOCATION	MO.	DAY	YEAR	TIME
	9	27	93	07:30

CUSTOMER REP. LAST NAME: Allen L. Vernon

SEE REVERSE SIDE FOR GENERAL TERMS AND CONDITIONS

SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND CONDITIONS PRINTED ON THE REVERSE SIDE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

Allen L. Vernon

CUSTOMER AUTHORIZED AGENT

SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.

CUSTOMER AUTHORIZED AGENT: X Allen L. Vernon

WESTERN APPROVED: X [signature]

WCHA 1169 10/81-25M

THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

CUSTOMER	DATE	FR. #	SER. SUP.	TYPE JOB
UPRC	[illegible]	22052	[illegible]	PNA

LEASE & WELL NAME-OCSG	LOCATION	COUNTY PARISH BLOCK
[illegible]	[illegible]	[illegible]

DISTRICT	DRILLING CONTRACTOR RIG #	OPERATOR
Rock Springs		UPRC

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS (TOP / BTM)	LIST-CSG-HARDWARE	SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES: SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
	N/A	—								
1st Plug	50sx G Neat	2068-1620		1620	15.6	1.17	5.19	5:00	10.4	6
2nd Plug	50sx G+2% CaCl2	565'-117'		117	15.6	1.17	5.29	2½	10.4	6

Available Mix Water 100 Bbl. Available Displ. Fluid 200 Bbl. TOTAL

HOLE SIZE	% EXCESS	DEPTH	TBG-CSG-D.P. SIZE	WGT.	TYPE	DEPTH	TBG-CSG-D.P. SIZE	WGT	TYPE	DEPTH	COLLAR DEPTHS SHOE	FLOAT	STAGE
—	—	—	5½	17#	N-80	11800	2⅞	6.5	N-80	2068	—		

LAST CASING SIZE	WGT	TYPE	DEPTH	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT
9 5/8			2018	—	—	4600	4602	2⅞	EUE 8 Rd	H2O	8.33

CAL. DISPL. VOL.-Bbl. TBG	CSG	CSG	TOTAL	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV	OP. MAX SQ. PSI	MAX TBG PSI RATED	OP.	MAX CSG PSI RATED	OP.	DISPL. FLUID TYPE	WGT.	WATER SOURCE
—	—	—	—	—	—	—	—	—	—	—	H2O	8.33	Trans. Rig

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG., ETC. PRIOR TO CEMENTING

PRESSURE/RATE DETAIL — EXPLANATION

SAFETY MEETING: WPS CREW ☒ CO. REP ☐
TEST LINES 2000 PSI
CIRCULATING WELL-RIG ☐ WPS ☒

TIME HR: MIN.	PRESSURE-PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
	2⅞	1st Plug				
10:19	100		2½	15	H2O	Break Circ 2068-1620
10:30	100		2½	10.4	15.6	Start 50sx Plug
10:37	0		2½		8.33	Start Displacement
10:40	0					Stop Displacement
		2nd Plug				
11:20			2½	5	8.33	5 Bbl Hi-Head 565-117
11:22	50		2½	10.4		Start 50sx G + 2% CaCl2
11:27	0		2.5	.4		Start Displacement
11:29	0					Stop Displacement

DEC 06 1993
DIVISION OF OIL GAS & MINING

BUMPED PLUG Y N	PSI TO BUMP PLUG	TEST FLOAT EQUIP. Y N	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT

SER. SUP. D. Dells
CUSTOMER REP.

ACCOUNTING COPY

The Western Company of North America

SERVICE ORDER AND FIELD RECEIPT NO. L 266804

CUSTOMER (COMPANY NAME): UNION PACIFIC RESOURCES CO.

CREDIT APPROVAL NO.

PURCHASE ORDER NO.

CUSTOMER NUMBER

INVOICE NUMBER

MAIL INVOICE TO: STREET OR BOX NUMBER | CITY | STATE | ZIP CODE

DATE WORK COMPLETED: MO. 9 DAY 29 YEAR 93

WESTERN SERVICE SUPERVISOR: D. Schlemmer

WELL TYPE (CHECK ONE): [ ] NEW [X] OLD

WESTERN DISTRICT: ROCK SPRINGS

JOB DEPTH (FT.): 565'

WELL CLASS (CHECK ONE): [ ] OIL [X] DISPOSAL [ ] GAS [ ] INJECTION

WELL NAME AND NUMBER: JUDD #34-2

TD WELL DEPTH (FT.): 8354

GAS USED ON JOB (CHECK ONE): [ ] N_2 [X] NONE [ ] CO_2 [ ] BINARY

WELL LOCATION: SEC/TWP/RGE 34 2N 10E COUNTY SUMMIT STATE UTAH

JOB TYPE CODES

CEMENTING SERVICES
10 CONDUCTOR
11 SURFACE
12 INTERMEDIATE
13 LONG
14 LINER
15 TIEBACK
16 PLUG & ABANDON
17 PLUG BACK
18 SQUEEZE
19 PUMPING (CEMENT)
20 BULK SALES (CEMENT)

STIMULATION SERVICES
30 ACID, MATRIX
31 ACID, FRACTURE
32 FRACTURE, 0-9,999 psi
33 FRACTURE, 10,000 + psi
34 PUMPING (STIM)
35 BULK SALE (STIM)
40 SAND CONTROL
41 GRAVEL PACK TOOL SALES
42 GRAVEL PACK TOOL RENTAL

TOOL SERVICES
50 TOOL SALE
51 TOOL RENTAL
52 TOOL REDRESS
53 TOOL SERVICE

116

CODE	DESCRIPTION		UNIT	QTY	PRICE	AMOUNT		
KIG216	MILEAGE CHARGE PICK-UP	1x150	UNIT MILES	150 0	1 45	217 50	30 0	
FC876	ADDITIONAL HOURS PUMP		UNIT HOURS	1 0	277 00	277 00		
M1006	SERVICE CHARGE		ft^3	50 0	1 25	62 50		
M2366	DELIVERY CHARGE	2.35x150	TON MILES	352 5	85	299 63		
P43-35	PREMIUM CEMENT "G" 4700#	50ft³	SACK	50 0	8 50	425 00		
RS-33	$CACL_2$	-	lb	94 0	39	36 66		
	TOTAL FIELD ESTIMATE					1318 29	30 0	922 80
	ADJUSTMENT 8 HRS Rig Time			8 0	145 00			< 1160 00
								< 237 20

DEC 06 1995

DIVISION OF OIL, GAS & MINING

ARRIVE LOCATION: MO 9 DAY 29 YEAR 93 TIME

CUSTOMER REP. LAST NAME: Mr. FRED McDOUGAL

SEE REVERSE SIDE FOR GENERAL TERMS AND CONDITIONS

SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND CONDITIONS PRINTED ON THE REVERSE SIDE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

CUSTOMER AUTHORIZED AGENT

SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.

CUSTOMER AUTHORIZED AGENT X

WESTERN APPROVED X

WCNA 4168 10/91 25M

NOV 30 '93 11:48 ZON WESTERN CO ROCK SPR TO 16 775969 PAGE.006

12-06-95 08:13 FROM WESTERN STATES 817 877 5969 P.02

THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

CUSTOMER	DATE	DIST.	SERVICE	TYPE JOB
Pacific Resources	9-29-93	Liberal	Dan Hammer	PTA

LEASE & WELL NAME OCSG	LOCATION	COUNTY PARISH BLOCK
Todd #34-2	34 29 6E	Stevens

DISTRICT	DRILLING CONTRACTOR RIG #	OPERATOR
Rock Springs		Pacific

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS TOP	TYPE OF PLUGS BTM	LIST-CSG-HARDWARE	SQ MANI FOLD Y N	TOP OF EACH FLUID	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Plug @ 565' 50sx G + 2% CaCl (mix)					—	15.8	1.14	4.96		10	6
									TOTAL	10	6

Available Mix Water 80 Bbl. Available Displ. Fluid _____ Bbl.

HOLE SIZE	% EXCESS	DEPTH	TBG/CSG/D.P. SIZE	WGT	TYPE	DEPTH	TBG/CSG-D.P. SIZE	WGT	TYPE	DEPTH	COLLAR DEPTHS SHOE	FLOAT	STAGE
			5½	17#	N-80	3679	2⅞	6.5	J-55	565	-	-	-

LAST CASING SIZE	WGT	TYPE	DEPTH	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT
9⅝	-	-	2018	-	-	-	-	2⅞	EUE	H₂O	8.33

CAL. DISPL. VOL.-Bbl. TBG.	CSG.	CSG.	TOTAL	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	OP.	MAX CSG PSI RATED	OP.	DISPL. FLUID TYPE	WGT	WATER SOURCE
	31.4										H₂O	8.33	Trans

EXPLANATION-TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL TIME HR: MIN.	PRESSURE-PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: WPS CREW ☐ CO. REP ☐
						TEST LINES PSI
						CIRCULATING WELL-RIG ☐ WPS ☐
4:36 pm	-	-	-	-	CMT	~~Bump~~ Cement to weight @ 15.8ppg
4:38	-	-	2	8	CMT	Bump Cement @ weight
4:43	-	-	-	10	H₂O	Start Displacement
4:44	-	-	-	10.8	-	Shutdown @ 10.8 bbls Disp cmt - on vacuum

DEC 0 6 1993

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. / CUSTOMER REP.
Y—N	—	Y—N	10.8	—	—	—	

ACCOUNTING COPY

The Western Company of North America

SERVICE ORDER AND FIELD RECEIPT NO. L266805

CUSTOMER (COMPANY NAME)	CREDIT APPROVAL NO	PURCHASE ORDER NO	CUSTOMER NUMBER	INVOICE NUMBER
Union Pacific Resources Co.		782-0192	91673	431412

MAIL INVOICE TO: P.O. Box 7 — STREET OR BOX NUMBER: Fort Worth, TX — CITY — STATE: 76101 — ZIP CODE

DATE WORK COMPLETED: MO 9 DAY 30 YEAR 93

WESTERN SERVICE SUPERVISOR: D. Schlemmer 04088

WELL TYPE: 1 [ ] NEW 2 [X] OLD (CHECK ONE)

WESTERN DISTRICT: Rock Springs

JOB DEPTH (FT.): 105'

WELL CLASS: 1 [ ] OIL 2 [ ] GAS 3 [X] DISPOSAL 4 [ ] INJECTION (CHECK ONE)

WELL NAME AND NUMBER: Judd 34-2

TD WELL DEPTH (FT.): -

GAS USED ON JOB: 1 [ ] N_2 2 [ ] CO_2 3 [X] NONE 4 [ ] BINARY (CHECK ONE)

WELL LOCATION: SEC/TWP/RGE 34 2N 6E — COUNTY Summit — STATE Wyo

JOB TYPE CODES

CEMENTING SERVICES: 10 CONDUCTOR, 11 SURFACE, 12 INTERMEDIATE, 13 LONG, 14 LINER, 15 TIEBACK, 16 PLUG & ABANDON, 17 PLUG BACK, 18 SQUEEZE, 19 PUMPING (CEMENT), 20 BULK SALES (CEMENT)

STIMULATION SERVICES: 30 ACID, MATRIX, 31 ACID, FRAC PURE, 32 FRACTURE, 0-9,999 psi, 33 FRACTURE, 10,000 - psi, 34 PUMPING (STIM), 35 BULK SALE (STIM), 40 SAND CONTROL, 41 GRAVEL PACK TOOL SALES, 42 GRAVEL PACK TOOL RENTAL

TOOL SERVICES: 50 TOOL SALE, 51 TOOL RENTAL, 52 TOOL REDRESS, 53 TOOL SERVICE

K1006	Mileage Charge Pick-up	1x150	Unit Miles	150	0	2	75	412 50	30 0
FC876	Additional Hours Pump		Unit Hours	9	0	277	00	2493 00	
M1006	Service Charge		Ft³	297	00	1	25	371 25	
M2306	Delivery Charge	13.88x150	Ton Miles	2082	0		85	1769 70	
K5026	Return Delivery Charge	6.82x150	Ton Miles	1023	0		85	869 55	
P43-35	Premium Cement "G" 27260#	290 ft³	Sack	145	0	8	50	1232 50	
P05-33	$CaCl_2$ 38#	.95 ft³	lb	138	0		39	53 82	
P2036	Thixad 451#	6.02 ft³	lb	451	0		30	135 30	
M2326	Additional Hours Bulk Truck		Unit Hours	5	0	47	10	235 50	
	Sub Total Field Estimate							7878 10	30 0 — 5301 10
	Balance Rig Time Credit from FR# L266804							<2271 93>	<318 09>
	Total Field Estimate								5319 98

DEC 06 1993

DIVISION OF OIL, GAS & MINING

ARRIVE LOCATION: MO 9 DAY 30 YEAR 93 TIME 7:00 am

CUSTOMER REP. LAST NAME: Mr. McDougal

SEE REVERSE SIDE FOR GENERAL TERMS AND CONDITIONS

SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH TERMS AND CONDITIONS PRINTED ON THE REVERSE SIDE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

CUSTOMER AUTHORIZED AGENT

SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.

CUSTOMER AUTHORIZED AGENT: X

WESTERN APPROVED: X

FORM 1368 10-81-25M

NOV 30 '93 11:50 TO 16 7775969 PAGE.008
ROM WESTERN CO ROCK SPR
817 877 5969

THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

DEC 0 6 1993

CUSTOMER	DATE	B.O.L. #	SERVICE SUP	TYPE JOB
Union Pacific Resources Co	9-30-93	1000 PDS	D. Bellamonte	Pa A

LEASE & WELL NAME-OCSG	LOCATION	COUNTY-PARISH-BLOCK
Jubb #32-2	Sec 32 T2N R6E	Sublette

DISTRICT	DRILLING CONTRACTOR-RIG #	OPERATOR
Rock Springs		UPRC

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS TOP	TYPE OF PLUGS BTM	LIST-CSG-HARDWARE	SQ MANI FOLD Y (N)	TOP OF EACH FLUID	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Annular Plug 5½ x 9⅝ 40 sx G+12% Thixad +1% CaCl₂						14.9	1.46	6.77	3:00	10.5	6.5
" " " " 20 sx "G" neat						15.6	1.18	5.19	3:00	4	2.5
Surface Plug 105' 1" 30 sx G+neat					Surf.	15.8	1.14	4.96	3:00	6	3.5
Top Out Annular 5½ x 9⅝ 20 sx G neat						15.8	1.14	4.96	3:00	4	2.5
Top out Annular 5½ x 9⅝ 35 sx G+3% CaCl₂ (mix water)					Surf.	15.8	1.14	4.96	1:30	7	4
									TOTAL	31½	19

Available Mix Water 80 Bbl. Available Displ. Fluid _____ Bbl.

HOLE SIZE	% EXCESS	DEPTH	TBG-CSG-D.P SIZE	WGT.	TYPE	DEPTH	TBG-CSG-D.P SIZE	WGT.	TYPE	DEPTH	COLLAR DEPTHS SHOE	FLOAT	STAGE
-	-	-	1"	-	-	105'	5½	17#	N-80		-	-	-

LAST CASING SIZE	WGT	TYPE	DEPTH	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT
9⅝	36#	K-55		-	-	-	-	2 x 1		H₂O	8.33

CAL. DISPL. VOL.-Bbl. TBG	CSG.	CSG.	TOTAL	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV	OP. MAX SQ. PSI	MAX TBG PSI RATED	OP.	MAX CSG PSI RATED	OP.	DISPL. FLUID TYPE	WGT.	WATER SOURCE
-	-	-	-	-	-	-	-	-	-	-	H₂O	8.33	Trans

EXPLANATION-TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL

TIME HR: MIN.	PRESSURE-PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
Annulus Plug 5½ x 9⅝ 108' / 1"						SAFETY MEETING: WPS CREW ☒ CO. REP ☐
						TEST LINES - PSI
						CIRCULATING WELL-RIG ☐ WPS ☒
10:25 am	-	-	1¼	-	H₂O	Pump water ahead to load annulus & 5½ csg
10:38	-	-	-	17	-	Shutdown prepare to mix cmt.
10:42	-	-	-	17	cmt	mix cement to weight @ 14.9 ppg
10:44	-	-		17	cmt	Pump cement @ weight
10:53	-	-		27	cmt	Start mixing & pumping G cmt @ 15.6 ppg
10:57	-	-		31	-	Shutdown - Annulus full
Surface Plug 5½ 105' 1"						
11:09	-	-	-	-	cmt	mix cement to weight 15.8 ppg
11:14	-	-		-	cmt	Pump cement @ weight
11:19	-	-	-	6	-	Shutdown 5½ csg full
Annular Plug Top out 40'						
12:21	-	-	-	-	cmt	mix cement to weight 15.8 ppg
12:23	-	-	1¼	-	cmt	Pump cement @ weight
12:26	-	-	-	4	-	Shutdown Annulus full - woc
Annular Plug Top out						
3:52	-	-	-	-	cmt	mix cement to weight 15.8 ppg
3:54	-	-	1½	-	cmt	Pump cmt @ weight
3:56	-	-	-	3	cmt	Shutdown Annulus full - standing @ surf

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP Don E. Bellamonte
							CUSTOMER REP