

2-24-69 Converted to water disposal

FILE NOTATIONS

Entered in MID File ✓
Location Map Pinned ✓
Card Indexed ✓

Checked by Chief *AMB*
Approval Letter *EN UNIT 10-24-68*
Disapproval Letter

COMPLETION DATA:

Date Well Completed *3-9-69*
water injection
OW..... WW..... TA.....
GW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log *4-3-69*
Electric Logs (No.) *7*

E..... I..... Dual I Lat. ✓..... GR-N..... Micro.....
BHC SONIC GR. ✓..... Lat..... MI-L..... Sonic.....
CBL..... CCLog..... Others

Temperature Formation
Density Log - Sidewall
Neutron Porosity Log
Production Logging Well Data +
Results
Perforating Depth Control (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Suite 1200, Lincoln Tower Building, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1765' FNL & 2135' FEL
At proposed prod. zone
NW SW NE

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

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

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

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

19. PROPOSED DEPTH
6230

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7028 GR

22. APPROX. DATE WORK WILL START*
Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	8 5/8"	24#	2400	500 sx
7 7/8"	5 1/2"	15.5#	6230	370 sx

We plan to drill to an approximate TD of 6230', log, run casing as shown above and complete as an oil well. Conduct potential tests.

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE October 24, 1968

BY *Don B. Ferguson*
Director

43-017-30007

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 *Ferry M. Lopez* TITLE District Office Supervisor DATE 10/23/68

(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

COMPANY TENNECO OIL COMPANY

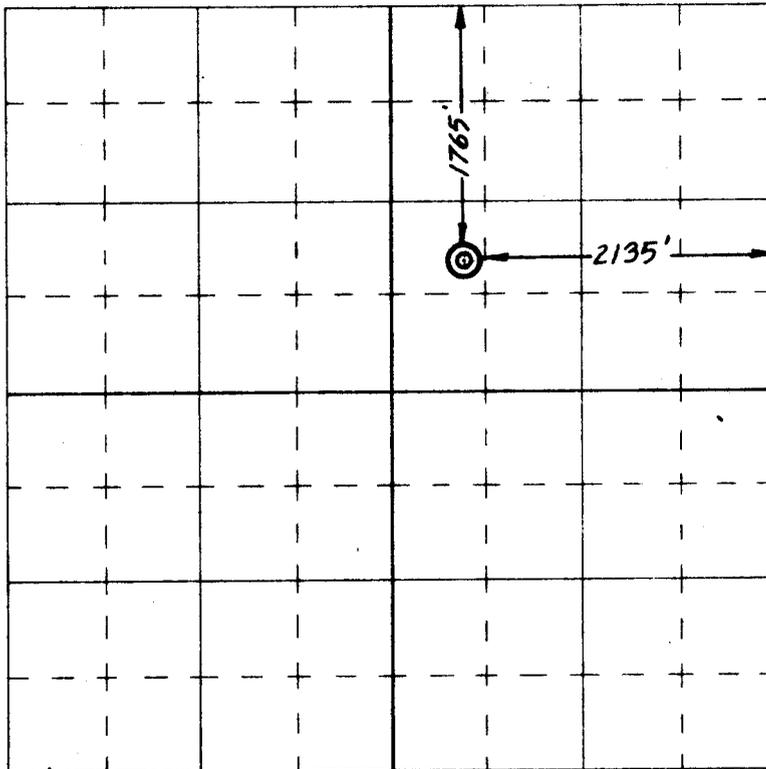
Well Name & No. UPPER VALLEY NO. 16 Lease No. _____

Location 1765 FEET FROM THE NORTH LINE & 2135 FEET FROM THE EAST LINE

Being in SW NE

Sec. 11, T 36S, R 1E, S.L.M., Garfield County, Utah

Ground Elevation 7028 Ungraded



Scale -- 4 inches equals 1 mile

Surveyed 10 October, 19 68

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Registered Professional
Engineer and Land Surveyor.

Robert H. Ernst
Colo. PE & LS 4979
N. Mex. PE & LS 2463

Seal:

ERNST ENGINEERING CO.
DURANGO, COLORADO



SCHUMBERGER

MEMPHIS PURVISITY

SHADE WALL

COUNTY _____
 FIELD or LOCATION _____
 WELL _____
 COMPANY _____

COMPANY TENECO OIL COMPANY
 WELL UPPER VALLEY # 16
 FIELD UPPER VALLEY
 COUNTY CARFIELD STATE UTAH
 Location: 1765 FNL x 2/35 FEE
 Sec. 11 Twp. 36S Rge. 1E
 Other Services: DIL FDC-GR BHC-GR

Permanent Datum: GL; Elev.: 7034
 Log Measured From FB; Ft. Above Perm. Datum
 Drilling Measured From FB

Date 11-20-68
 Run No. ONE
 Type Log SNP
 Driller 6330
 Logger 6325
 Bottom logged interval 6324
 Top logged interval 5700
 Type fluid in hole FCG
 Salinity, PPM Cl. 3000
 Density 9.1
 Level Full
 Max rec. temp., deg F. 125
 Operating rig time 2 hrs
 Recorded by BUEN
 Witnessed by COLVINS

RUN NO. _____
 BORE-HOLE RECORD
 No. _____ Bit _____ From _____ To _____ Size _____ Wgt. _____
 1. 97% GS5 TD 85% _____
 2. 2% _____ _____ _____ 2/161

HERE The well name, location and borehole reference data were furnished by the customer.

EQUIPMENT DATA

PG P	PNH-A	PGH-A	PGS-	Source No.	SFT-116	SGH	Logging Unit	Location
<u>145D</u>	<u>21</u>	<u>93</u>	<u>-</u>	<u>44</u>	<u>116</u>	<u>174G</u>	<u>4542</u>	<u>F49D</u>

CALIBRATION DATA

Gamma Ray			Neutron - Before Log - ACPS		Neutron - After Log - ACPS	
API Scale	Background CPS	Total CPS	Drawer In	Drawer Out	Drawer In	Drawer Out
<u>200</u>	<u>80</u>	<u>480</u>	<u>380</u>	<u>208</u>	<u>380</u>	<u>208</u>

LOGGING DATA

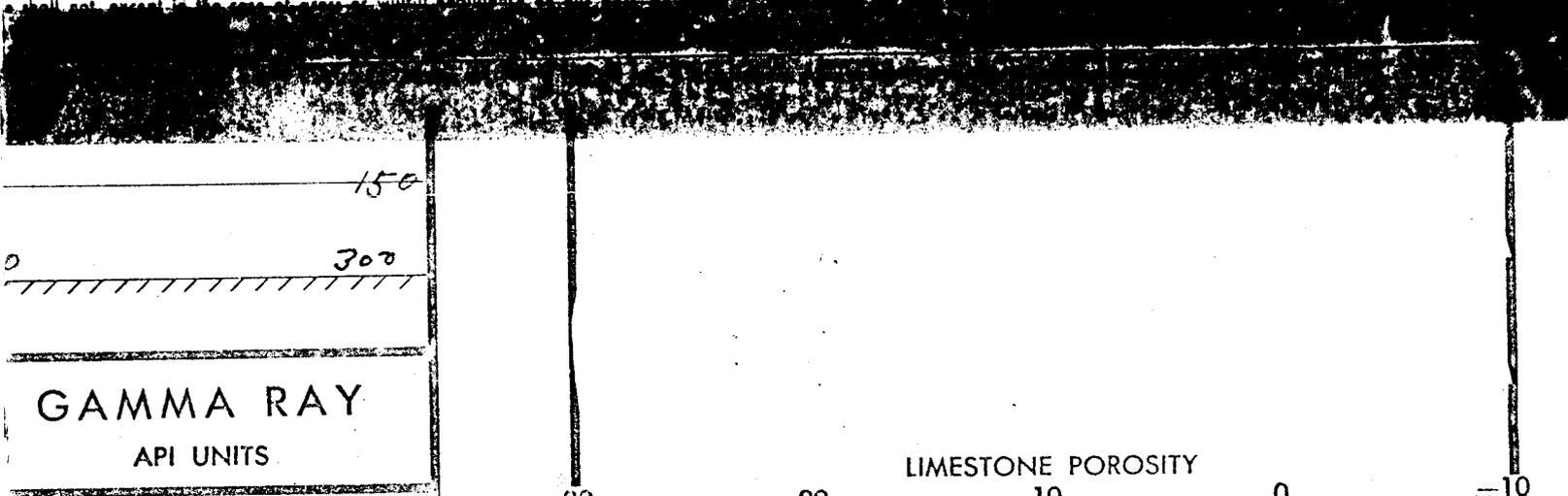
General				Gamma Ray		Neutron Selectors		
Depths		Speed Ft./Min.	TC	API Scale	Matrix	Mud Corr. Setting as PPM-NaCl x 10 ⁻⁶	Temperature °F	Porosity Scale
From	To							
<u>TD</u>	<u>5100</u>	<u>30</u>	<u>2</u>	<u>150</u>	<u>LIME</u>	<u>0.005</u>	<u>125</u>	<u>30-10</u>

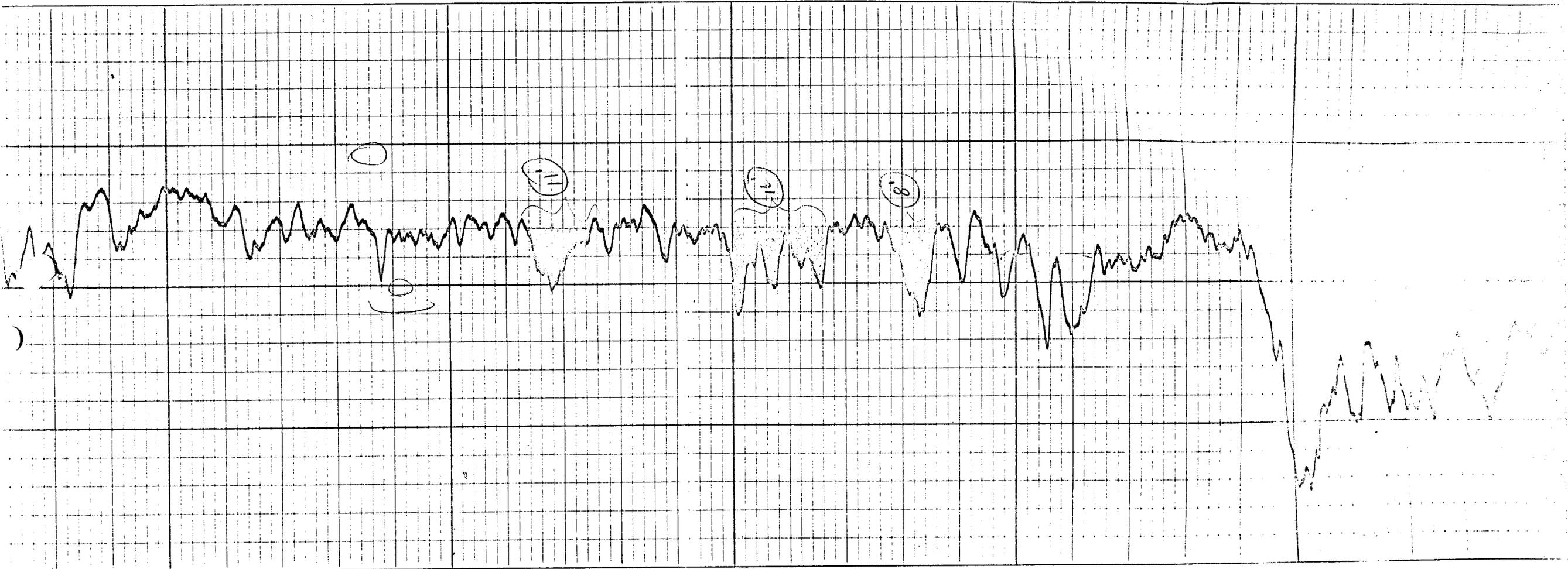
MUD DATA

Rm.	@	°F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec/Qt @	°F	Solids, Av. Sp. Gr.
	@	°F				@	°F	
	@	°F				@	°F	
	@	°F				@	°F	

Remarks:

Interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, except in the case of errors which will be corrected.

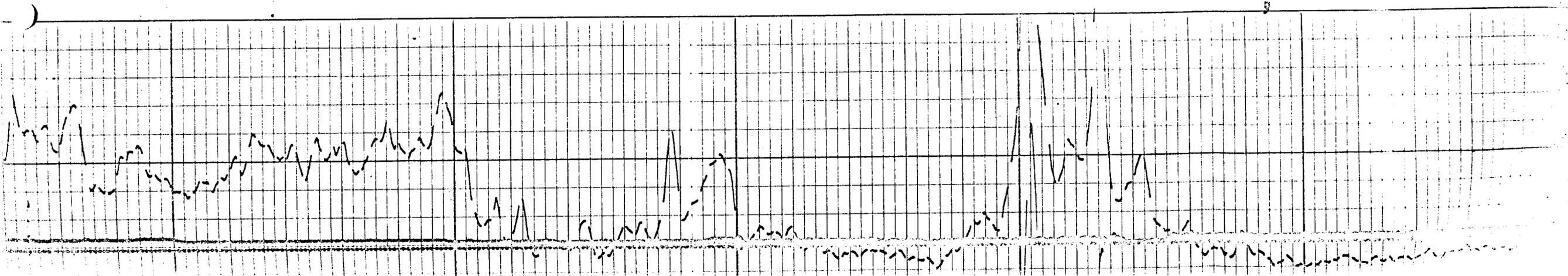




6000

6100

6200



SCHEIDTBERGER

WIRE RECORDING EQUIPMENT

COUNTY FIELD or LOCATION WELL

COMPANY

COMPANY INNECO OIL COMPANY

WELL UPPER VALLEY NO. 16

FIELD UPPER VALLEY

COUNTY CARLEFIELD STATE UTAH

LOCATION 1765 FNL & 2135 FEL

Sec. 11 Twp. 36 S Rge. 1 E

Other Services:
FOC-67
SMO-67
SLC-67

Permanent Datum: GL Elev. 7034

Log Measured From KR , 10 Ft. Above Perm. Datum

Drilling Measured From KG

Elev.: K.B. 7044
 D.F. 2043
 G.L. 7034

Date 11-20-68

Run No. 5NE

Depth—Driller 6330

Depth—Logger 6324

Stm. Log Interval 6320

Top Log Interval 2162

Casing—Driller 8 5/8 (in) 2161

Casing—Logger 2 1/2

Bit Size 7 7/8

Type Fluid in Hole F517

Dens. Visc. Fluid Loss

pH 9.1 5.7 ml

Source of Sample 1.4 ml

R_{mf} Meas. Temp. 1.58 (in) 45 °F

R_{mc} Meas. Temp. 1.03 (in) 56 °F

Meas. Temp. 1.5 (in) 125 °F

Source: R_{mf} 17 °F

BHT 1.58 (in) 125 °F

3 (ppm)

The well name, location and borehole reference data were furnished by the customer.

Sample No.	Driller	Fluid in Hole	Type Log	Depth	Scale Changes		Run No.	Tool Type	Equipment Data	
					Scale Up Hole	Scale Down Hole			Tool Position	Other

USED S.O.: 1 1/2"

Used Cart. No. 51A

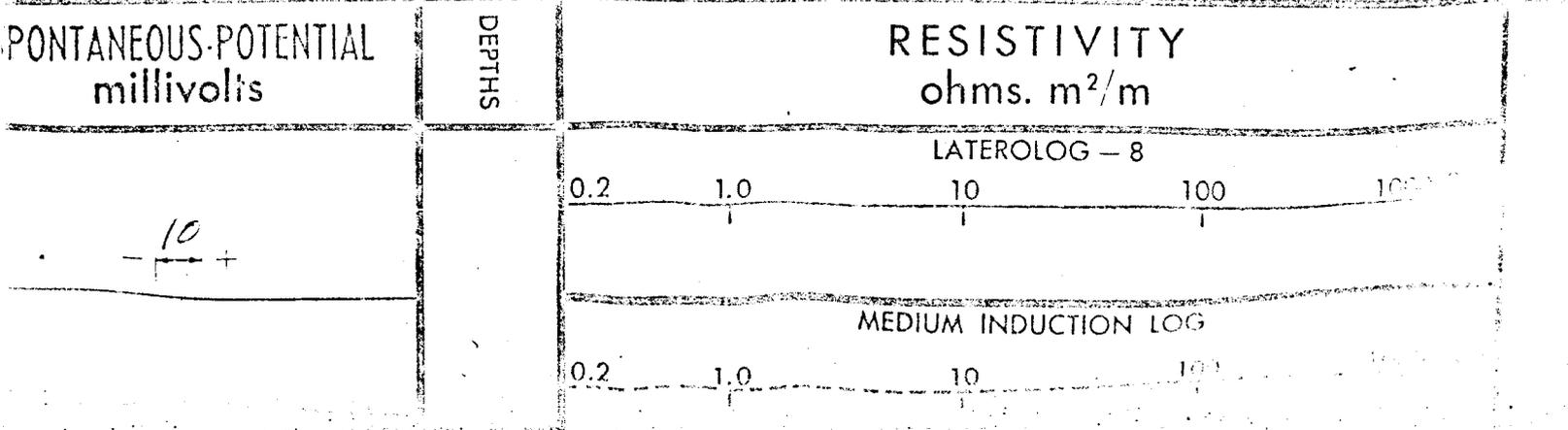
Panel No. 487

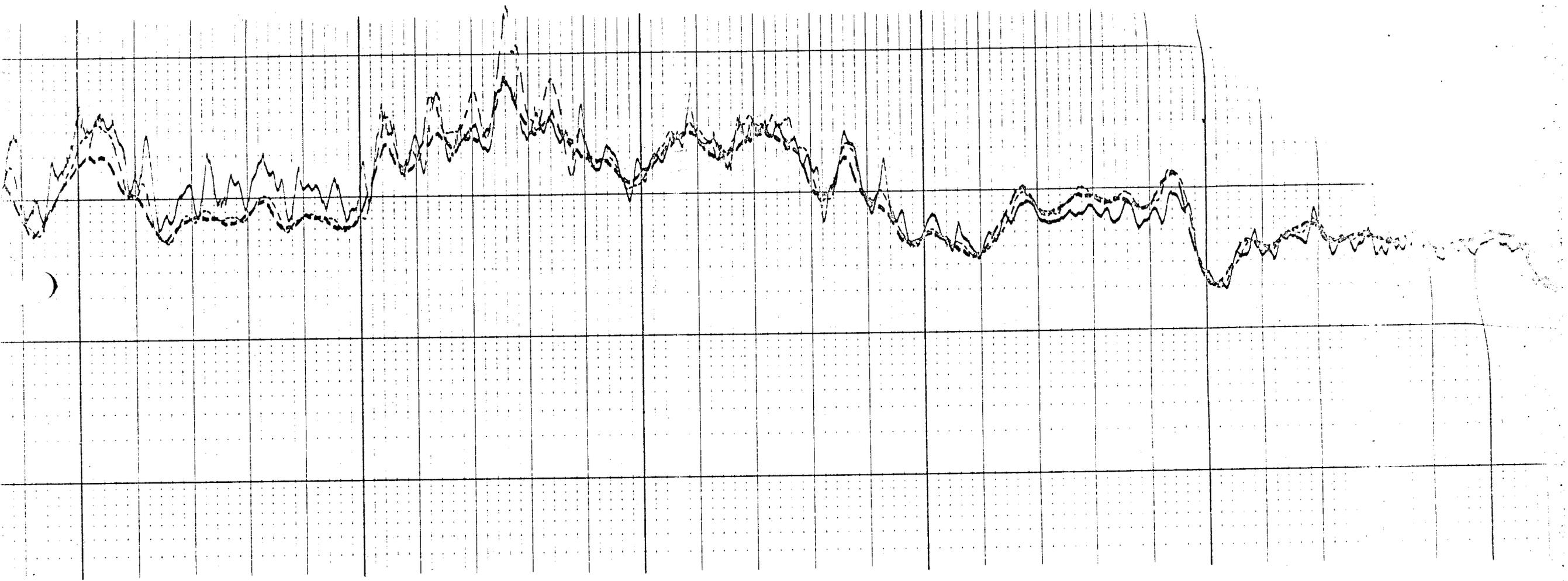
Sonde No. 777

IAP No. 230

SBR = 4

- Check one, filling in blanks where applicable:
- Surface determined sonde errors used for ILM and ILD.
 - ILM and ILD sonde errors corrected for _____ inch borehole signal at R_m = _____
 - ILM and ILD zeros set in hole at depth of _____ feet.

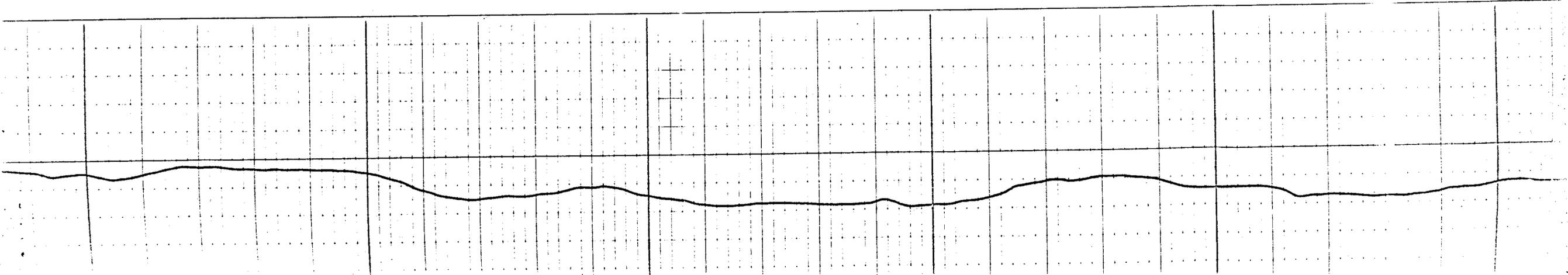




6000

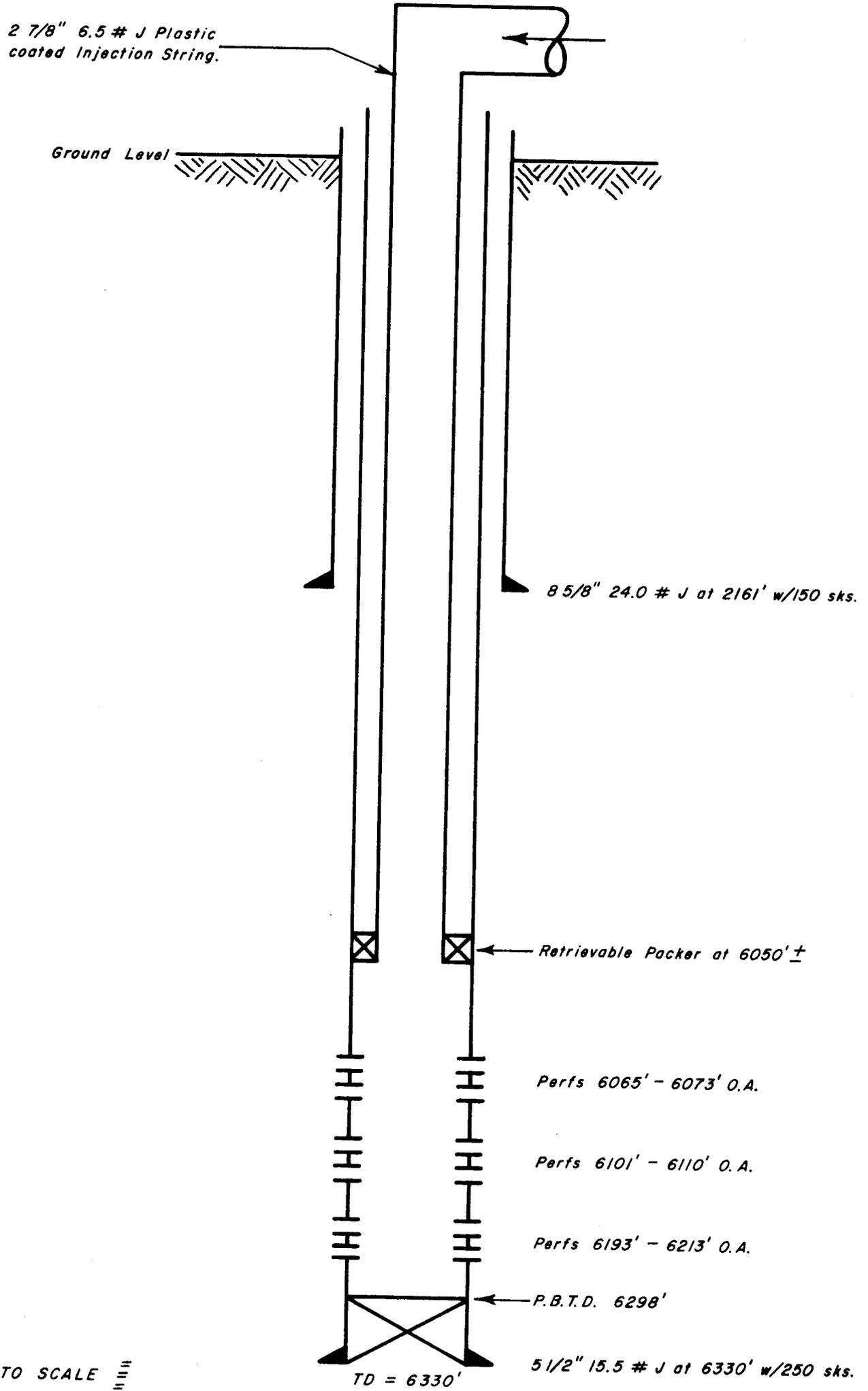
6100

6200

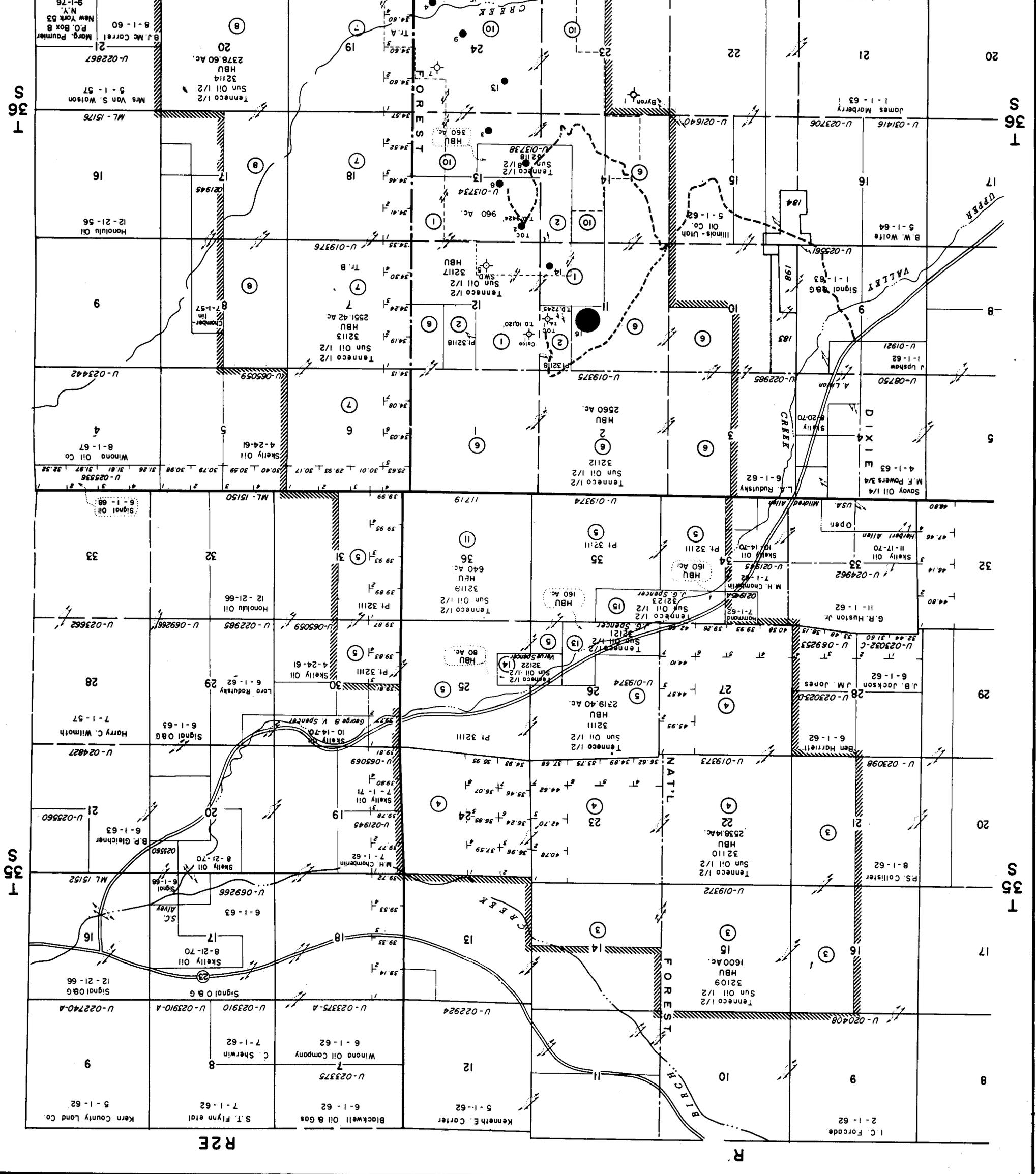


TENNECO OIL COMPANY
 PROPOSED SALT WATER DISPOSAL COMPLETION
 UPPER VALLEY UNIT No. 16

1765' FNL 2135' FEL
 Sec. 11, T 36 S - R 1 E
 Garfield County, Utah



NOT TO SCALE



U-048178
U-696
9-1-76
New York 53
P.O. Box 8
Morg. Pummer
U-022867
8-1-60
Mrs. Van S. Watson
5-1-57

U-019377
20
2378.60 Ac.
HBU
32114
Sun Oil 1/2
Tenneco 1/2

U-019376
7
2551.42 Ac.
HBU
32113
Sun Oil 1/2
Tenneco 1/2

U-023442
4
8-1-67
Winona Oil Co.

U-019377
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2378.60 Ac.
HBU
32114
Sun Oil 1/2
Tenneco 1/2

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2551.42 Ac.
HBU
32113
Sun Oil 1/2
Tenneco 1/2

U-023442
4
8-1-67
Winona Oil Co.

R2E S35-T S36-T S36-T

TENNECO OIL COMPANY *A Major Component of Tenneco Inc.*

SUITE 1200 • LINCOLN TOWER BUILDING • DENVER, COLORADO 80203



February 11, 1969

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

Attention: Mr. C. B. Feight

Re: Salt Water Disposal Application
Upper Valley Unit #16
1765' FNL & 2135' FEL
Sec. 11-36S-1E
Garfield County, Utah

Gentlemen:

Tenneco Oil Company requests approval to utilize the above captioned well for the purpose of subsurface disposal of produced Kaibab water. Development of the Upper Valley Field, comprised of 11 producers and one SWD well, has progressed to the point that additional salt water disposal facilities are needed. Present production from the field is approximately 4,500 BOPD and 6,500 BWPD.

Upper Valley Unit #5 is presently being used for water disposal in the Toroweap and Cedar Mesa Zones. This well, due to continued development, is no longer capable of handling all of the produced water.

Tenneco proposes to dispose of produced Kaibab water back into the Kaibab Zone in the Upper Valley Unit #16. The Upper Valley Unit #16 was temporarily abandoned in December, 1968, after testing of the Kaibab Zone proved to be only water productive. A schematic diagram of the proposed salt disposal completion of Upper Valley Unit #16 is attached. Minimum and maximum amounts of water to be injected into the well is 1,000 BWPD and 5,000 BWPD respectively.

A plat showing all wells in the Upper Valley Field is attached. Location of the proposed disposal well is indicated by a red dot.

Attached you will also find an electric log on the captioned well.

Waiver from offset operators is not required as these are not within one-half mile of the proposed disposal well.

TENNECO OIL COMPANY

Utah Oil & Gas Conservation Commission
Page 2
February 11, 1969

The above data is in accordance with Statewide Rule C-11, and Tenneco therefore requests the proposed application be approved administratively.

Also, if possible, include Well #5 in the new order so that a recompletion can be made if desired.

Should you desire further information concerning this application, please advise.

Yours very truly,

TENNECO OIL COMPANY

C. W. Nance

C. W. Nance
District Production Superintendent

JDC:rem
Attachments

February 17, 1969

Tenneco Oil Company
Suite 1200 - Lincoln Tower Bldg.
Denver, Colorado 80203

Well No. Upper Valley Unit #16
Sec. 11, T. 36 S, R. 1 E,
Garfield County, Utah

Gentlemen:

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

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

Your cooperation in this matter will be greatly appreciated.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

SCHEREE DeROSE
SECRETARY

sd

Enclosures: Forms OGC-3

COMPANY TENNECO OIL COMPANY

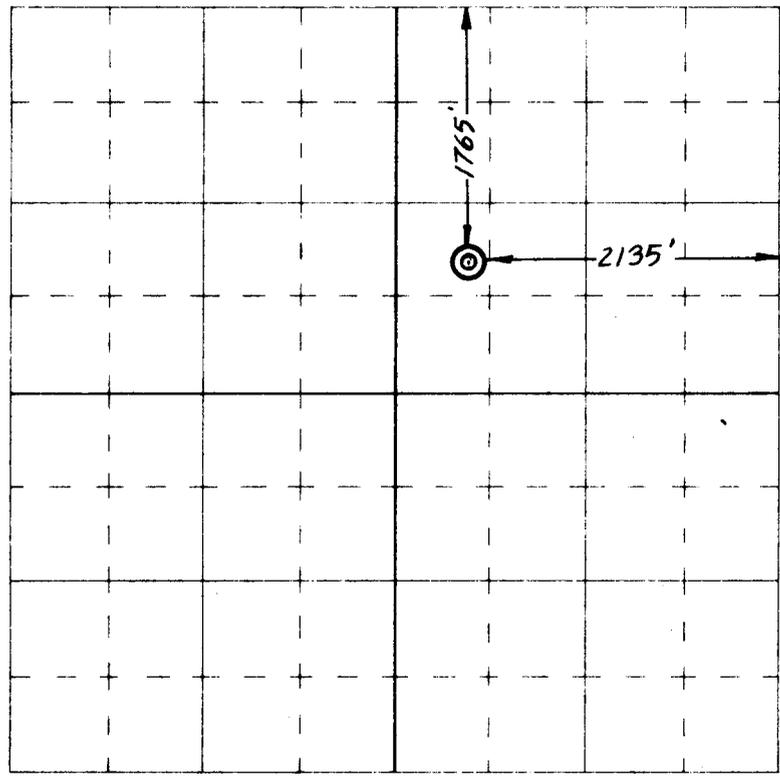
Well Name & No. UPPER VALLEY NO. 16 Lease No. _____

Location 1765 FEET FROM THE NORTH LINE & 2135 FEET FROM THE EAST LINE

Being in Sw NE

Sec. 11, T 36S, R 1E, S.L.M., Garfield County, Utah

Ground Elevation 7028 Ungraded



Scale -- 4 inches equals 1 mile

Surveyed 10 October, 19 68

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Registered Professional
Engineer and Land Surveyor.

Robert H. Ernst
Colo. PE & LS 4979
N. Mex. PE & LS 2463

Seal:

ERNST ENGINEERING CO.
DURANGO, COLORADO



February 24, 1969

Tenneco Oil Company
Suite 1200
Lincoln Tower Building
Denver, Colorado 80203

Re: Salt Water Disposal Application
Upper Valley Unit #16
Sec. 11, T. 36 S., R. 1 E.,
Garfield County, Utah

Gentlemen:

As provided for under Rule C-11, approval is hereby granted to convert the Upper Valley Unit Well No. 16 to a Salt Water disposal well.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:cnp

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN
(Other ins
verse side)

ICATE*
OR re-

5. LEASE DESIGNATION AND SERIAL NO.

U - 019375

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1.

OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME

Upper Valley Unit

2. NAME OF OPERATOR

Tenneco Oil Company

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR

Suite 1200 Lincoln Tower Bldg., Denver, Colorado 80203

9. WELL NO.

16

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

10. FIELD AND POOL, OR WILDCAT

Upper Valley

1765' FNL & 2135' FEL

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

Sec. 11, T-36-S, R-1-E

14. PERMIT NO.

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

7028 GR

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Completion Attempt

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

1. Perf 5-1/2" csg 6065-73 (5 holes) and 6101-17 (9 holes).
2. Isolated K₂ Zone 6101-17. Acidized w/1000 gal 15% HCL acid.
Isolated K₁ Zone 6065-73. Acidized w/1000 gal 15% HCL acid.
3. Swabbed K₁ Zone 10 hrs. Rec. 308 bbls formation water with slight oil skim.
Swabbed K₂ Zone 8-1/4 hrs. Rec. 255 bbls water with slight oil stain.
4. Squeezed perf 6065-73 and 6101-17 w/150 sx cmt.
5. Drld out cmt and perf 5-1/2" csg 6065-73 w/5 holes and 6101-10 w/9 holes.
6. Isolated K₁ Zone 6065-73 swabbed down - no oil show. Isolated K₂ Zone 6101-10, swabbed dry - no fluid entry.
7. Acidized K₂ Zone 6101-10 w/1000 gal 15% HCL acid and acidized K₁ Zone 6065-73 w/1000 gal. 15% HCL acid.
8. Swabbed both zones with no show of oil.
9. Temporarily abandoned well 12-15-68.

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

SIGNED

Larry M. Kopp

TITLE

District Office Supervisor

DATE

February 26, 1969

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN T
(Other instru-
verse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

U-019375

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.

16

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 11, T-36-S R-1-E

12. COUNTY OR PARISH 13. STATE

Garfield

Utah

1. OIL WELL GAS WELL OTHER SWD Well

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Suite 1200 Lincoln Tower Bldg., Denver, Colorado 80203

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

1765' FNL & 2135' FEL

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7028 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

FULL 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) Convert TA Well to SWD

(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.)*

We propose to convert the temporarily abandoned Upper Valley No. 16 to a Salt Water Disposal Well as follows:

1. Pull present completion equipment.
2. Perf K-4 Zone, 6193-6213, w/4 jet shots per foot.
3. Run tension packer on 2-7/8", 6.5# internally coated tubing and set at 6175'.
4. Acidize K-4 Zone w/2,000 gals 28% acid w/ball sealers.
5. Run receptivity test and complete as SWD well.

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

SIGNED

Rory M. Rupp

TITLE District Office Supervisor

DATE February 27, 1969

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R353.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

U-019375

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.

16

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 11-T36S-R1E

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other WIW

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

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

1200 Lincoln Tower Building, Denver, Colorado 80203

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

At surface 1765' FNL & 2135' FEL

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

11/5/68

16. DATE T.D. REACHED

11/20/68

17. DATE COMPL. (Ready to prod.)

3/9/69

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

7044' KB

19. ELEV. CASINGHEAD

7025 GR

20. TOTAL DEPTH, MD & TVD

6330'

21. PLUG, BACK T.D., MD & TVD

6220'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

Yes

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Kaibab - Water Injection Well ✓

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IES, CBL, FDC, GR

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
8-5/8"	24#	2161'	13-3/4"	150 sx - parasite tubing	---
2-1/16"	3.25#	2099'	13-3/4"	150 sx - parasite tubing	---
5-1/2"	15.5#	6330'	7-7/8"	250 sx	---

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"	6149'	6149'

31. PERFORATION RECORD (Interval, size and number)

SEE ATTACHED SHEET

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

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

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
WIW	Water Injection Well	WIW					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Completion Record

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

SIGNED

Don H. Cole

TITLE

Production Clerk

DATE

3/27/69

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.)

APR 3 1966

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.
Navajo Shinarump Kaibab	2575 5165 6050	4660 5240 6325	

GEOLOGIC MARKERS	
NAME	TOP
	MEAS. DEPTH TRUE VERT. DEPTH
Navajo	2575
Chinle	4660
Shinarump	5165
Moenkopi	5240
Kaibab	6050

UPPER Valley #16

PERFS	MATERIAL
6065, -67, -69, -71, & -73 5 holes	1000 gal. 15% Hcl
6101, -03, -05, -07, -09, -11, -13, -15, & -17. 9 holes	1000 gal. 15% Hcl
Squeezed both zones (6065-73, 6101-17) 150 sx Class C cement	
6065-73 w/5 holes	1000 gal. 15% Hcl
6101-10 w/ 9 holes	1000 gal. 15% Hcl
6193-6213 w/4 shots/ft.	2000 gal. 28% Hcl

Y

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN (Other Inst: verse side) DATE on re-

Form approved. Budget Bureau No. 42-R1424.

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 SWD
2. NAME OF OPERATOR Tenneco Oil Company
3. ADDRESS OF OPERATOR 1200 Lincoln Tower Building, Denver, Colorado 80203
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1765' FNL, 2135 FEL
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7028 GR

5. LEASE DESIGNATION AND SERIAL NO.
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Upper Valley
8. FARM OR LEASE NAME
9. WELL NO. #16
10. FIELD AND POOL, OR WILDCAT Upper Valley
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-365-15
12. COUNTY OR PARISH Garfield 13. STATE Wyoming

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) []
SUBSEQUENT REPORT OF: WATER SHUT-OFF [] REPAIRING WELL [] FRACTURE TREATMENT [] ALTERING CASING [] SHOOTING OR ACIDIZING [] ABANDONMENT* [] (Other) Converted to SWD [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.)*

3/8/69 - Pulled tubing and packer. Perf. Kaibab 6193-6213 w/4 shots/ft. Set 2 7/8" tubing and packer at 6149'. Frac K-4 zone w/2000 gal. 28% acid #/80 ball sealers. Date of first injection - 3/9/69 Average injection rate - 2200 BWPD at 20# vac.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Production Clerk DATE May 15, 1969

(This space for Federal or State office use)

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

Scheute

210

FORM OGC-8-X

FILE IN QUADRUPLICATE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Upper Valley Unit, Well #16
Operator Tenneco Oil Company Address 1200 Lincoln Tower Bldg. Denver, Colorado Phone 292-9920
Contractor _____ Address _____ Phone _____
Location SW 1/4 NE 1/4 Sec. 11 T. 36 N R. 1 E Garfield County, Utah
S X

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. <u>No water encountered during drilling</u>			
2. _____			
3. _____			
4. _____			
5. _____			

(Continue on reverse side if necessary)

Formation Tops:

Remarks:

- NOTE:
- (a) Upon diminishing supply 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, (See Back of form).
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

[Handwritten mark]

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
TENNECO OIL EXPLORATION & PRODUCTION

CAUSE NO. _____

ADDRESS P.O. Box 3249
Englewood, CO ZIP 80155

ENHANCED RECOVERY INJ. WELL
DISPOSAL WELL

INDIVIDUAL _____ PARTNERSHIP _____ CORPORATION

FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE Upper Valley WELL 16
SEC. 11 TWP. 365 RANGE 1E
Garfield COUNTY, UTAH

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 <u>Upper Valley</u>	Well No. <u>16</u>	Field <u>Upper Valley</u>	County <u>Utah</u>
Location of Enhanced Recovery Injection or Disposal Well <u>SW NE</u> Sec. <u>11</u> Twp. <u>365</u> Rge. <u>1E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <u>existing injector</u>	Casing Test Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Date _____	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>4500</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What oil <u>oil</u>
Location of Injection Source(s) <u>Upper Valley</u>	Geologic Name(s) and Depth of Source(s) <u>Kaibab</u> <u>6000-6900</u>		
Geologic Name of Injection Zone <u>Kaibab</u>		Depth of Injection Interval <u>6065</u> to <u>6213</u>	
a. Top of the Perforated Interval: <u>6065</u>	b. Base of Fresh Water: <u>4500</u>	c. Intervening Thickness (a minus b) <u>1565</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <u>YES</u> NO			
Lithology of Intervening Zones <u>limestone and shale</u>			
Injection Rates and Pressures Maximum <u>6000</u> B/D <u>300</u> PSI			
The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent			

State of COLORADO

County of Arapahoe

[Signature: Harry Hufft]
Applicant

Before me, the undersigned authority, on this day personally appeared Harry Hufft, Production Manager 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 13th day of October, 1983

SEAL

My Commission Expires Sept. 7, 1987
My commission expires _____

[Signature: Linda Hancock]
Notary Public in and for the State of Colorado
Linda Hancock
6884 S. Prescott St.
Littleton, CO 80120

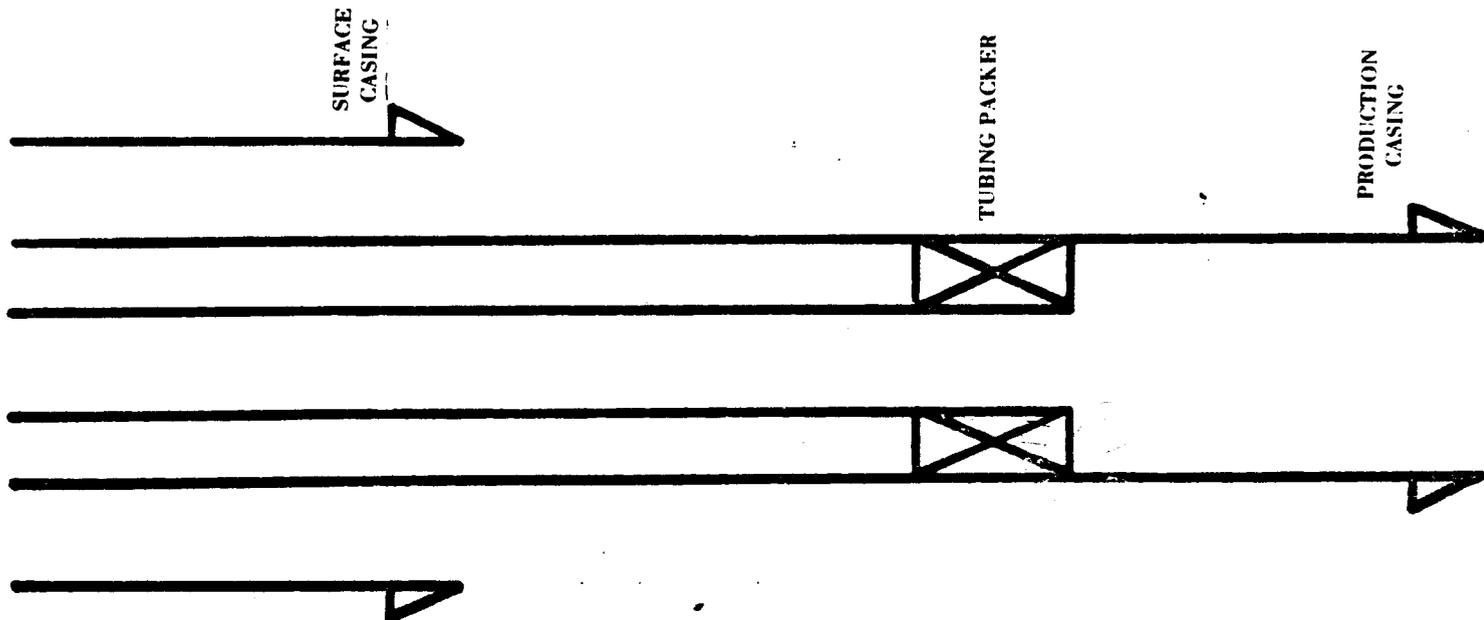
(OVER)

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 1/2 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 1/2 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	8 5/8	2161	150	surface	returns
Intermediate					
Production	5 1/2	6330	250	5400	CBL
Tubing	3 1/2	5915	Name - Type - Depth of Tubing Packer BAKER MODEL R @ 5915		
Total Depth 6330	Geologic Name - Inj. Zone Kaibab	Depth - Top of Inj. Interval 6065	Depth - Base of Inj. Interval 6213		

SKETCH - SUB-SURFACE FACILITY



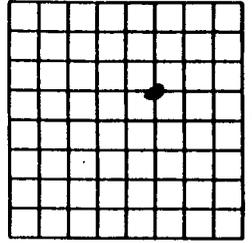
(To be filed within 30 days after drilling is completed)

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

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

COUNTY LEASE NO.

API NO
840 Acres



COUNTY Garfield SEC. 11 TWP. 365 RGE. 1E

COMPANY OPERATING TENNECO

OFFICE ADDRESS Box 3249

TOWN Englewood STATE ZIP CO 80155

LEASE KEY FARM NAME Upper Valley WELL NO. 16

DRILLING STARTED 11 19 68 DRILLING FINISHED 11 19 68

DATE OF FIRST PRODUCTION COMPLETED

WELL LOCATED SW 1/4 NE 1/4

FT. FROM SL OF 1/4 SEC. & FT. FROM WL OF 1/4 SEC.

ELEVATION DERRICK FLOOR 7044 GROUND 7034

Locate Well Correctly and Outline Lease

TYPE COMPLETION

Single Zone single Order No.
Multiple Zone Order No.
Comingled Order No.

LOCATION EXCEPTION Order No. Penalty

OIL OR GAS ZONES

Table with 6 columns: Name, From, To, Name, From, To. Row 1: Kaibab, 6065, 6213.

CASING & CEMENT

Table with 8 columns: Casing Set (Size, Wgt, Grade, Feet), Csg. Test (Psi), Cement (Sax, Fillup, Top). Rows include 8 5/8 and 5 1/2 casing sizes.

TOTAL DEPTH 6330

PACKERS SET DEPTH 5915

Table with 4 columns: FORMATION (Kaibab), SPACING & SPACING ORDER NO., CLASSIFICATION (inj. well), PERFORATED INTERVALS (6065-6073, 6101-6117, 6193-6213), ACIDIZED? (yes), FRACTURE TREATED? (no).

INITIAL TEST DATA

Table for test data with rows for Date, Oil. bbl./day, Oil Gravity, Gas. Cu. Ft./day, Gas-Oil Ratio Cu. Ft./Bbl., Water-Bbl./day, Pumping or Flowing, CHOKE SIZE, FLOW TUBING PRESSURE.

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

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

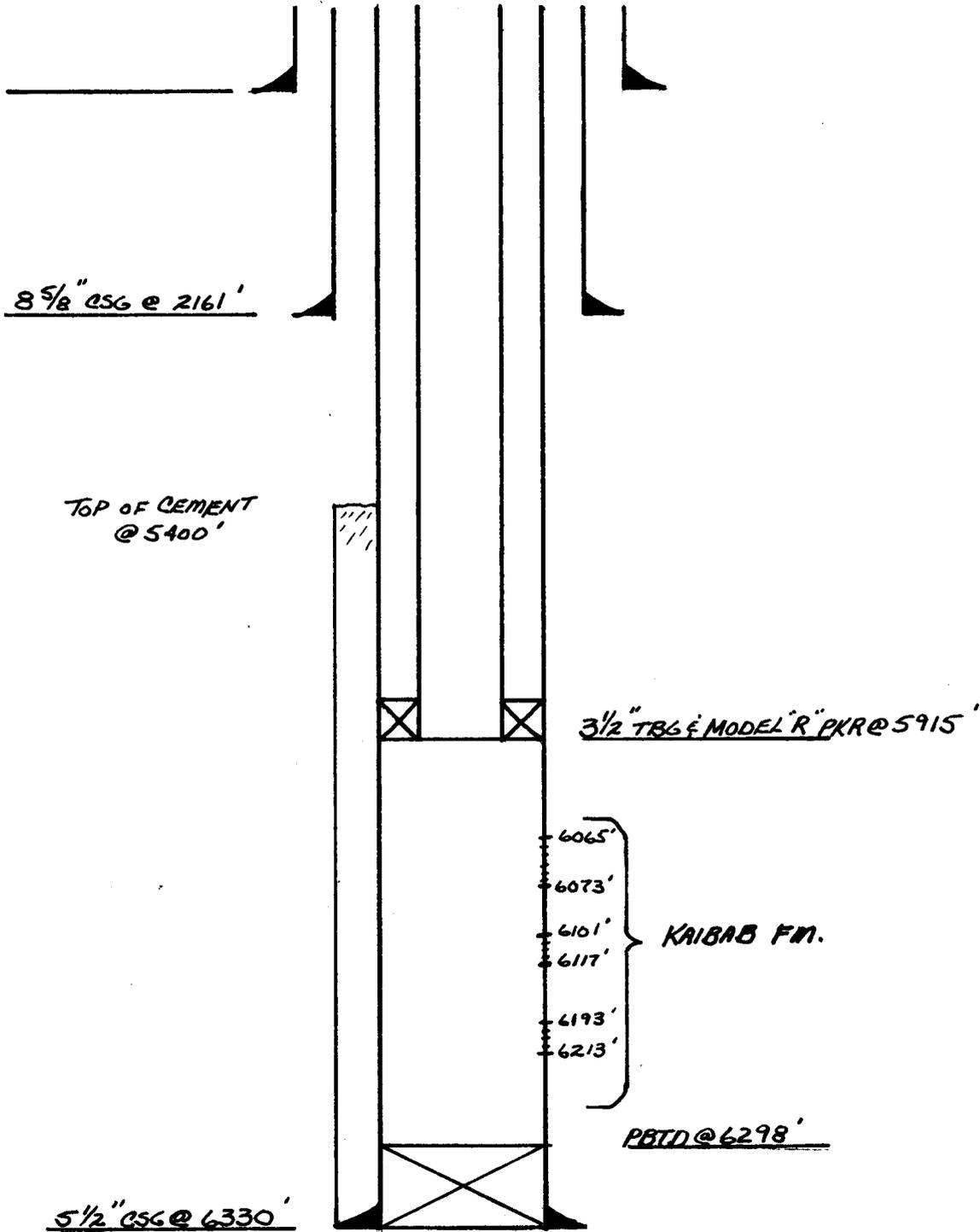
Telephone (303) 740-4800 Harry Hufft, Production Manager
Name and title of representative of company

Subscribed and sworn before me this 13th day of October, 1983

My Commission Expires Oct. 7, 1987

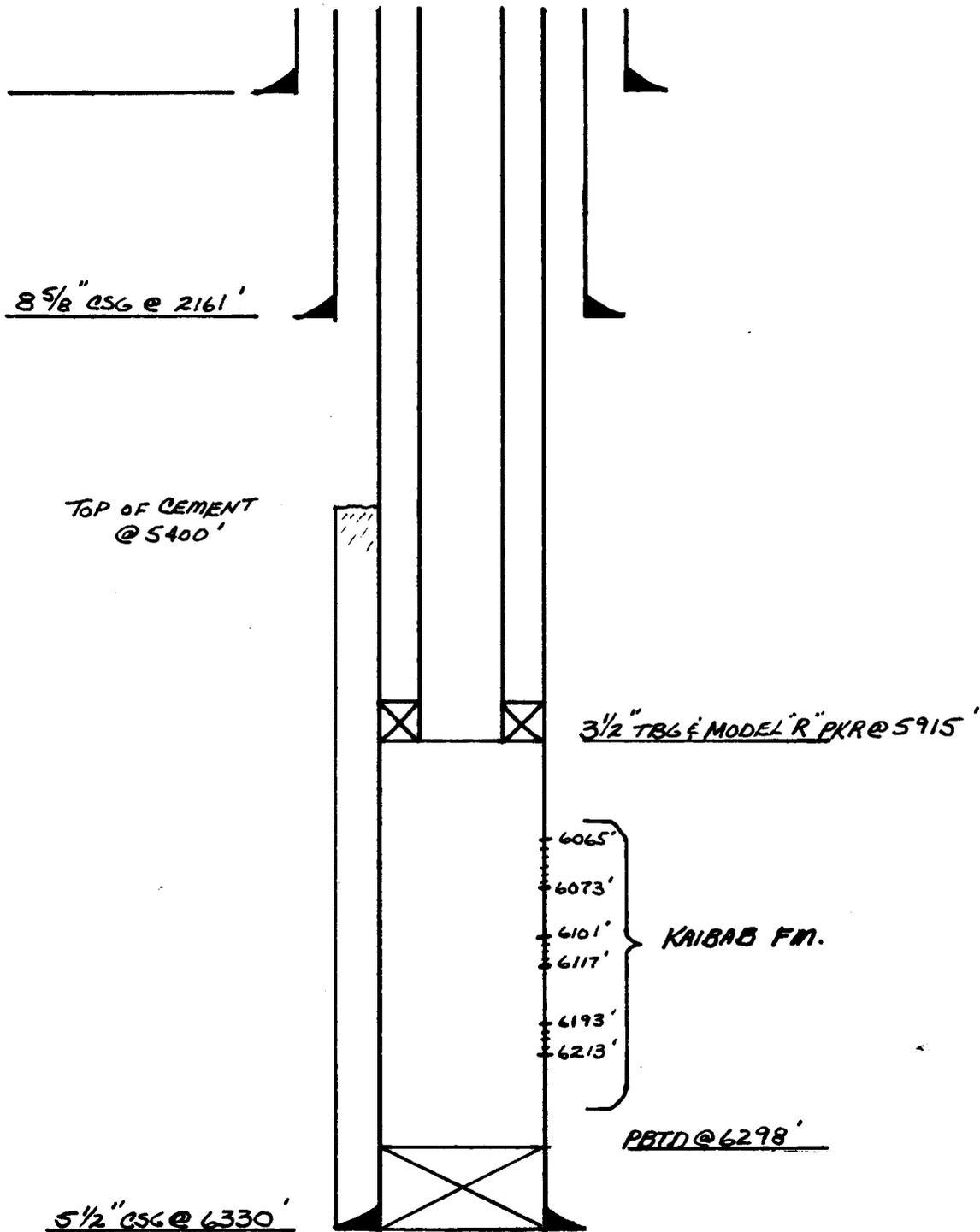
Linda Hancock signature
Linda Hancock
6884 S. Prescott St.

TENNECO OIL COMPANY
UPPER VALLEY UNIT WELL NO. 16
WELLBORE SCHEMATIC
GARFIELD CO., UTAH



NOTE: NOT TO SCALE

TENNECO OIL COMPANY
UPPER VALLEY UNIT WELL NO. 16
WELLBORE SCHEMATIC
GARFIELD CO., UTAH



NOTE: NOT TO SCALE

UIC RULE 1-5b
UPPER VALLEY UNIT

ITEM NO.

- 5 Design injection rates and surface pressures for Upper Valley injection wells are, as previously mentioned, maintained below 6,000 BPD and 300 psi surface pressures. These parameters are maintained by use of throttling valves or choke valves on each well. Pneumatic control valves are also used to automatically by-pass water if injection pressures exceed the specified 300 psi.
- 6 The Upper Valley system has no means for treating or storage of produced water. All produced water is reinjected as previously stated. Where an injection well shut-in or failure occurs, producing wells are shut-in to prevent over injection.

B

UIC RULE 1-5b
UPPER VALLEY UNIT

ITEM NO.

- 4 The Kaibab formation at the Upper Valley Unit has an average fracture gradient of .348 psi/ft. Past radioactive injection profile surveys run on selected injection wells in the field indicate that at injection rates as high as 6400 BPD, hydraulic fracturing upward above the Kaibab does not take place, but rather remains in zone. Injection in all cases is below 6,000 BPD. Surface injection pressures corresponding to this rate generally do not exceed 300 psi. Attached are copies of injection surveys for three wells (nos. 5, 16 and 26) which were tested at rates above 6,000 BPD. These surveys illustrate that above-fracturing pressures, no upward migration exists.

**UPPER VALLEY UNIT
FIELD DESCRIPTION**

The Upper Valley Unit is a peripheral drive waterflood utilizing 11 water injection wells to re-inject the total field water production of 38,000 BWPD into the Kaibab formation. Currently, one injection well is shut-in due to adverse effects to offset oil production.

Geologically, the Upper Valley Kaibab formation ranges from a dolomitic limestone, which is naturally fractured, to a very porous dolomitic sandstone.

Currently, there are 24 producing wells in the Upper Valley Unit, all of which are completed in the Kaibab. Production is collected and separated at two points in the field, the main tank battery and the satellite tank battery. Oil is separated at each battery and pumped via pipeline 20 miles to the Upper Valley sales terminal where the oil is sold. The water production at each battery is pumped to the water injectors nearest to the respective tank battery.

In addition to the above mentioned wells, there is one Navajo fresh water source well which was originally completed for additional water injection for the waterflood; but it is now used for makeup water for the newly started polymer-augmented waterflood in the field. The Navajo sand is the deepest known fresh water source in the area. No other fresh water source wells are known to exist at any depth within one mile of the unit boundaries. The bottom of the Navajo sand is an average depth of 4500 feet in the field and is on the average 2000 feet above the Kaibab formation.



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

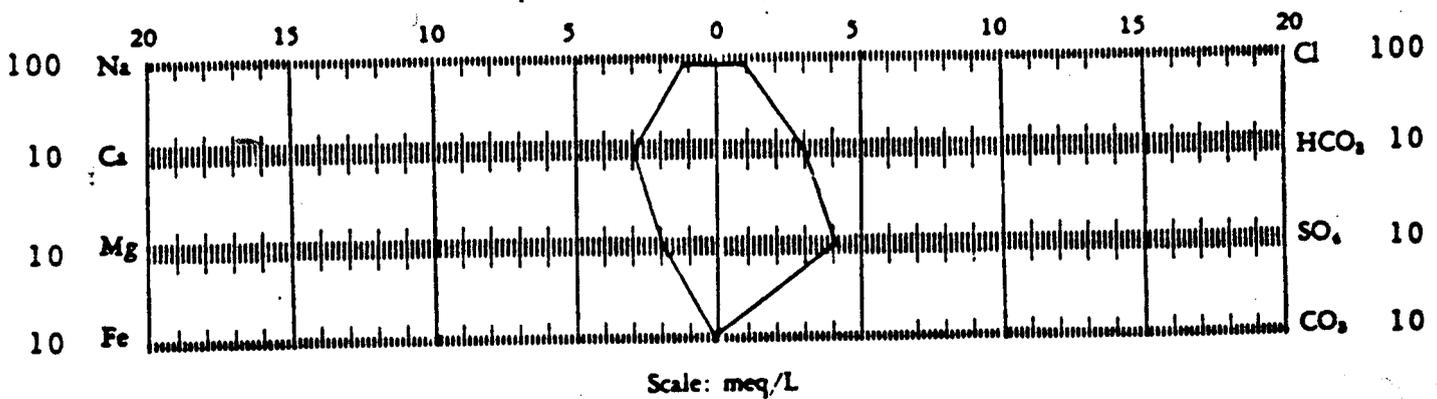
Page 5 of 8
 File IWTL-71107

Company Tenneco Oil Company Well Name _____ Sample No. 5
Second F. W. K. O.
 Formation Kaibab Depth _____ Sampled From Main Battery
 Location _____ Field Upper Valley County Garfield State Utah
 Date Sampled _____ Date Analyzed 11-3 to 11-4, 1971 Analyst RLC

Total Dissolved Solids 10,283 mg/L calculated Specific Gravity 1.0096 @ 60° F.
1.0068 @ 74° F.
 Resistivity .730 ohm-meters @ 74° F. measured Hydrogen Sulfide present - 4.0 ppm
 pH 6.9 @ 74° F.

* Constituents	meq/L	mg/L	Constituents	meq/L	mg/L
Sodium	110.14	2532	Chloride	87.42	3099
Calcium	29.99	601	Bicarbonate	29.60	1806
Magnesium	19.00	231	Sulfate	42.12	2023 (Grav.)
Iron	.007	0.2	Carbonate	-0-	-0-
Barium	-0-	-0- (Grav.)	Hydroxide	-0-	-0-

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



	<u>Actual Plugging Solids</u>	<u>Mg/L</u>
Total Solids		1.13
Organic		1.12
Iron Sulfides		.00
Calcium as CaCO ₃		.00
Magnesium as MgCO ₃		.00
Sulfate as SO ₄		.00
Insoluble Siliceous Residue		.01



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

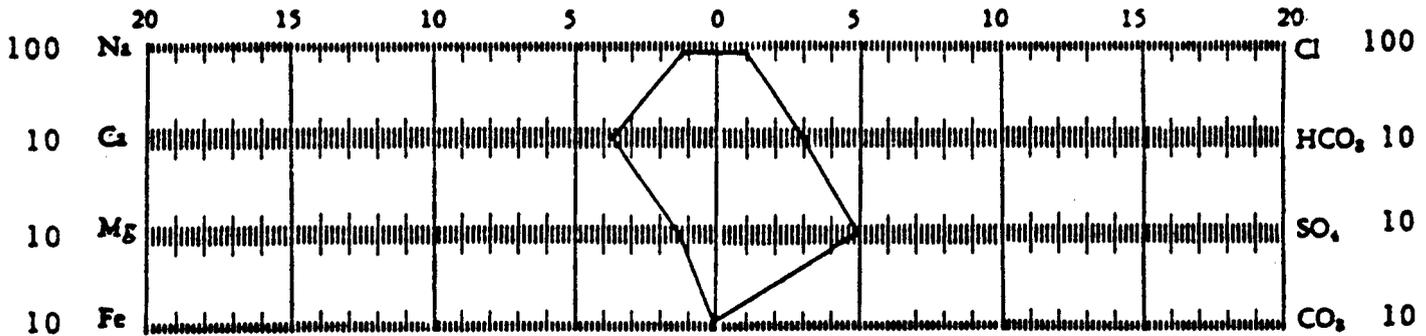
Page 2 of 8
 File IWTL-71107

Company Tenneco Oil Company Well Name _____ Sample No. 2
 Formation Kaibab Depth _____ Sampled From Satellite F. W. K. O.
 Location _____ Field Upper Valley County Garfield State Utah
 Date Sampled _____ Date Analyzed 11-3 to 11-4, 1971 Analyst RLC

Total Dissolved Solids 11,604 mg/L calculated Specific Gravity 1.0102 @ 60° F.
1.0074 @ 74 °F.
 Resistivity .750 ohm-meters @ 74 °F. measured Hydrogen Sulfide present - 3.5 ppm
 pH 6.7 @ 74 °F.

Constituents	meq/L	mg/L	Constituents	meq/L	mg/L
Sodium	128.14	2946	Chloride	96.42	3418
Calcium	37.03	742	Bicarbonate	31.40	1916
Magnesium	13.00	158	Sulfate	50.42	2421 (Grav.)
Iron	.07	2	Carbonate	-0-	-0-
Barium	-0-	-0-	Hydroxide	-0-	-0-

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



	<u>Actual Plugging Solids</u>	<u>Mg/L</u>
Total Solids		2.61
Organic		2.32
Iron Sulfides		.21
Calcium as CaCO ₃		.00
Magnesium as MgCO ₃		.00
Sulfate as SO ₄		.00
Insoluble Siliceous Residue		.04



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

Page 1 of 13
File IWTL-71101

Company Tenneco Oil Company Well Name _____ Sample No. _____
Formation Kaibab Depth _____ Sampled From W.S.W. No. 1
Location _____ Field Upper Valley County Garfield State Utah
Date Sampled 9-9-71 Date Analyzed _____ Analyst RLC

Total Dissolved Solids 995 mg. L calculated

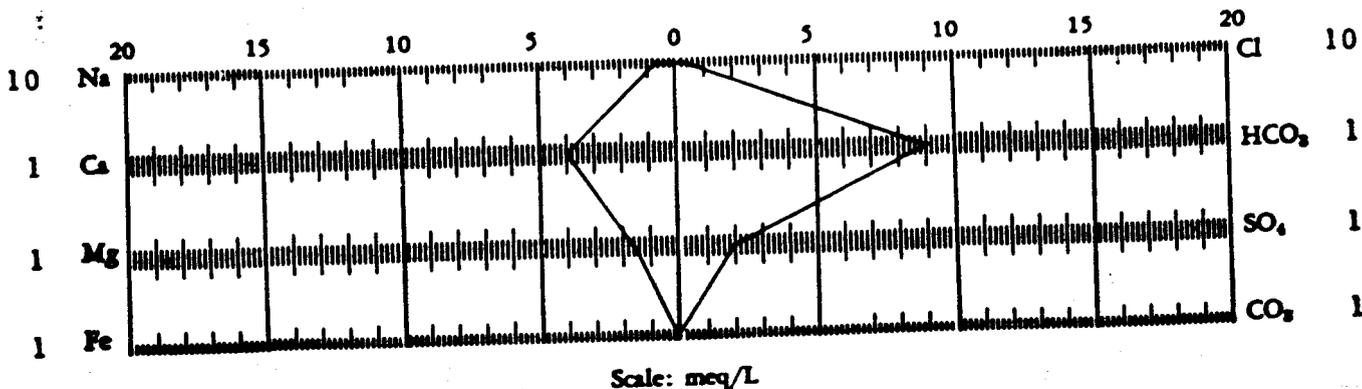
Specific Gravity 1.0027 @ 60 °F.

Resistivity 8.43 ohm-meters @ 74 °F. measured

Hydrogen Sulfide absent

pH 8.1 @ 74 °F.

* Constituents	meq/L	mg L	Constituents	meq/L	mg L
Sodium	6.4	147	Chloride	2.0	64
Calcium	4.0	80	Bicarbonate	9.0	576
Magnesium	2.6	32	Sulfate	2.0	95 (Grav.)
Iron	0.02	0.56	Carbonate	0.0	0.0
Barium	0.0	0.0 (Grav.)	Hydroxide	0.0	0.0



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

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Turneco Well No. Village Valley Unit # 16
 County: Garfield T 36S R 1E Sec. 11 API# 43-017-30007
 New Well Conversion Disposal Well Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<u>✓</u>	_____
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	_____
Schematic Diagram	<u>✓</u>	_____
Fracture Information	<u>✓</u>	_____
Pressure and Rate Control	<u>✓</u>	_____
Adequate Geologic Information	<u>✓</u>	_____
Fluid Source	<u>Keit</u>	_____

Analysis of Injection Fluid	Yes <u>✓</u>	No _____	TDS <u>11,604</u>
Analysis of Water in Formation to be injected into	Yes <u>✓</u>	No _____	TDS <u>11,604</u>

Known USDW in area	<u>None</u>	Depth <u>4500</u>
Number of wells in area of review	<u>1</u>	Prod. <u>0</u> P&A <u>0</u>
	Water <u>0</u>	Inj. <u>1</u>

Aquifer Exemption	Yes _____	NA <u>✓</u>
Mechanical Integrity Test	Yes _____	No _____
	Date <u>3-21-84</u>	Type <u>Buried</u>

Comments: To c 5400

Reviewed by: [Signature]

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: Tenneco Oil Exploration & Production Co.

FIELD: Upper Valley COUNTY Garfield
~~LEASE:~~

WELL # 16 SW/NE SEC. 11 TOWNSHIP 36S RANGE 1E

STATE FED. FEE DEPTH 6330 TYPE WELL INJW MAX. INJ. PRESS. 3000

TEST DATE 3/21/84

CASING STRING	SIZE	SET AT	CMT SACKS	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>8 5/8"</u>	<u>2160</u>	<u>150</u>	<u>0</u>	<u>NO VACUUM</u>	
<u>INTERMEDIATE</u>	<u>0</u>					
<u>PRODUCTION</u>	<u>5 1/2"</u>	<u>6330</u>	<u>250</u>			
<u>TUBING</u>	<u>3 1/2"</u>	<u>5915</u>	<u>Packer</u>	<u>185 PSI</u>	<u>= AT WELL HEAD</u>	

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

Utah
Natural Resources
Oil, Gas and Mining

3 Triad Center, Suite 350,
Salt Lake City, Utah 84180
Phone (801)538-5340

INJECTION WELL
PRESSURE TEST

COMPANY/OPERATOR Tenneco Oil Company DATE 9/24/86

WELL TYPE: DISPOSAL _____ ENHANCED RECOVERY OTHER _____

WELL NAME: # 16 API NO. 43-017-3000 LEASE NO. _____

SECTION 11 TOWNSHIP 36S RANGE 1E COUNTY GARFIELD

SURFACE CASING 8 5/8" @ 2160' WITH 150 STS CEMENT

INTERMEDIATE CASING _____ @ _____ WITH _____ CEMENT

PRODUCTION CASING 5 1/2" @ 6330' WITH 250 STS. CEMENT

TUBING 3 1/2" @ 5915'

PACKER SET @ 5915' TYPE Baker MODEL R

CONDITIONS DURING TEST:

TUBING PRESSURE: Vacuum psig.

CASING/TUBING ANNULUS PRESSURE 0 psig. for _____ minutes

CHANGE DURING TEST Presence of Vacuum on tubing & fluid standing in annulus indicates probably no leak existing.

CONDITIONS AFTER TEST:

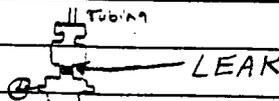
TUBING PRESSURE: Vacuum psig.

CASING/TUBING ANNULUS PRESSURE: 0 psig.

COMMENTS: 6000 B/D } Approved
3000 PSI }

- Annulus full of fluid

* Leak around threads on connection of wellhead



- Water leaks out under pressure; No pressure test run

- Injecting

Dorothy Swindell
WITNESS

[Signature] & [Signature]
WITNESS

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

SUB. TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

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FEB 01 1988

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. varies
2. NAME OF OPERATOR Tenneco Oil Company No 950		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 020910
3. ADDRESS OF OPERATOR P.O. Box 3249 Englewood, CO 80155		7. UNIT AGREEMENT NAME Upper Valley Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO.
15. ELEVATIONS (Show whether OF, RT, OR, etc.)		10. FIELD AND POOL, OR WILDCAT Upper Valley - Kaibab
		11. SEC., T., S., M., OR BLE. AND SURVEY OR AREA Townships 36S, 37S; Range 1E
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

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

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

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

Tenneco Oil Company has sold its interest to the Upper Valley Unit located in various sections of Township 36S, 37S and Range 1E, 2E. The sale was to Citation Oil and Gas Corp. (16800 Greenspoint Park Drive, Suite 300, Houston, Texas 77060) effective 9/1/87. Attached is a list of unit wells which were sold.

130265

18. I hereby certify that the foregoing is true and correct
SIGNED Steve Foster TITLE Sr. Administrative Analyst DATE 1/27/88
(This space for Federal or State office use)

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

Tennessee Oil Co. to Citation Oil and Gas Corp.

N0950 to N0265

Eff 9-1-87

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UPPER VALLEY UNIT

DIVISION OF
OIL, GAS & MINING

Upper Valley #1	SE/4NE/4	Sec. 11, T-36-S, R-1-E	43-017-11021 ✓
		Water Injection	
Upper Valley #2	NW/4NW/4	Sec. 13, T-36-S, R-1-E	43-017-16025 ✓
Pow/KBAB			
Upper Valley #3	SE/SW	Sec. 13, T-36-S, R-1-E	43-017-16026 ✓
Pow/KBAB			
Upper Valley #4	SE/SE	Sec. 24, T-36-S, R-1-E	43-017-16027 ✓
W1W Upper Valley #5	SE/SW	Sec. 12, T-36-S, R-1-E	43-017-16028 ✓
Pow/KBAB			
Upper Valley #6	SE/NW	Sec. 13, T-36-S, R-1-E	43-017-20233 ✓
W1W Upper Valley #7	SE/NE	Sec. 24, T-36-S, R-1-E	43-017-20258 ✓
Pow/KBAB			
Upper Valley #8	NW/SW	Sec. 13, T-36-S, R-1-E	43-017-20275 ✓
Pow/KBAB			
Upper Valley #9	NW/SE	Sec. 24, T-36-S, R-1-E	43-017-20324 ✓
Pow/KBAB			
Upper Valley #10	SE/NE	Sec. 25, T-36-S, R-1-E	43-017-30001 ✓
Pow/KBAB			
Upper Valley #11	SE/SE	Sec. 25, T-36-S, R-1-E	43-017-30002 ✓
Pow/KBAB			
Upper Valley #12	NW/SW	Sec. 6, T-37-S, R-2-E	43-017-30015 ✓
Pow/KBAB			
Upper Valley #13	NE/NW	Sec. 24, T-36-S, R-1-E	43-017-30003 ✓
Pow/KBAB			
Upper Valley #14	SE/SE	Sec. 11, T-36-S, R-1-E	43-017-30004 ✓
Pow/KBAB			
Upper Valley #15	SE/SW	Sec. 24, T-36-S, R-1-E	43-017-30005 ✓
W1W Upper Valley #16	SW/NE	Sec. 11, T-36-S, R-1-E	43-017-30007 ✓
PPA			
Upper Valley #17	SE/NE	Sec. 36, T-36-S, R-1-E	43-017-30011 ✓
Pow/KBAB			
Upper Valley #17X	SE/NE	Sec. 36, T-36-S, R-1-E	43-017-30071 ✓
Pow/KBAB			
Upper Valley #18	NW/SW	Sec. 31, T-36-S, R-2-E	43-017-30012 ✓
W1W / KBAB			
Upper Valley #19	NW/NW	Sec. 6, T-37-S, R-2-E	43-017-30013 ✓
Pow/KBAB			
Upper Valley #20	NW/NE	Sec. 25, T-36-S, R-1-E	43-017-30014 ✓
Pow/KBAB			
Upper Valley #21	NW/NW	Sec. 7, T-37-S, R-2-E	43-017-30021 ✓
PPA			
Upper Valley #22	SE/NW	Sec. 14, T-36-S, R-1-E	43-017-30025 ✓
W1W Upper Valley #23	SE/NW	Sec. 30, T-36-S, R-2-E	43-017-30030 ✓
W1W Upper Valley #24	NE/NE	Sec. 23, T-36-S, R-1-E	43-017-30041 ✓
W1W Upper Valley #25	SW/SE	Sec. 36, T-36-S, R-1-E	43-017-30033 ✓

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FEB 01 1988

UPPER VALLEY UNIT (Continued)

DIVISION OF
OIL, GAS & MINING

W1w Upper Valley #26 Pow/KBAB	SW/SW	Sec. 24, T-36-S, R-1-E	<u>43-017-30036</u> ✓
Upper Valley #27 Pow/KBAB	NW/SE	Sec. 7, T-37-S, R-2-E	<u>43-017-30039</u> ✓
Upper Valley #28 Pow/KBAB	NW/NE	Sec. 24, T-36-S, R-1-E	<u>43-017-30032</u> ✓
Upper Valley #29 Pow/KBAB	SW/SW	Sec. 13, T-36-S, R-1-E	<u>43-017-30034</u> ✓
Upper Valley #30 Pow/KBAB	SE/NW	Sec. 24, T-36-S, R-1-E	<u>43-017-30037</u> ✓
Upper Valley #31 Pow/KBAB	SE/NE	Sec. 14, T-36-S, R-1-E	<u>43-017-30042</u> ✓
Upper Valley #32	NW/SE	Sec. 25, T-36-S, R-1-E	<u>43-017-30043</u> ✓
W1w Upper Valley #33	NW/NE	Sec. 36, T-36-S, R-1-E	<u>43-017-30047</u> ✓
W1w Upper Valley #34	SW/NE	Sec. 13, T-36-S, R-1-E	<u>43-017-30065</u> ✓
W1w Upper Valley #36	NW/NE	Sec. 14, T-36-S, R-1-E	<u>43-017-30048</u> ✓

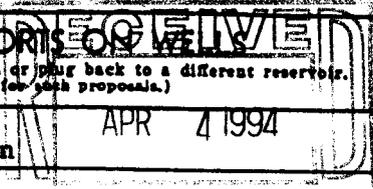
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-019375

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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



1. OIL WELL GAS WELL OTHER Injection

7. UNIT AGREEMENT NAME
Upper Valley

2. NAME OF OPERATOR
Citation Oil & Gas Corp.

8. FARM OR LEASE NAME
Upper Valley

3. ADDRESS OF OPERATOR
8223 Willow Place South Ste 250 Houston, Texas 77070

9. WELL NO.
16

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

10. FIELD AND POOL, OR WILDCAT
Upper Valley Kaibab

T36S, R1E, Sec. 11 1765' FNL & 2135' FEL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
T36S, R1E Sec. 11

14. API NUMBER
43-017-30007

15. ELEVATIONS (Show whether OF, RT, OR, etc.)
7028' GR

12. COUNTY OR PARISH; 13. STATE
Garfield Utah

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

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

On December 8, 1993, Citation acidized the above well w/500 bbls of 15% HCL. Shut in for 1 1/2 hrs.

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

SIGNED Sharon Ward TITLE Prod. Reg. Supv DATE 3-31-94

(This space for Federal or State office use)

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

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

<p>SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-019375</p>
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection</p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>2. NAME OF OPERATOR Citation Oil & Gas Corp.</p>		<p>7. UNIT AGREEMENT NAME Upper Valley</p>
<p>3. ADDRESS OF OPERATOR 8223 Willow Place South Ste 250 Houston, Texas 77070</p>		<p>8. FARM OR LEASE NAME Upper Valley</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface T36S, R1E, Sec. 11 1765' FNL & 2135' FEL</p>		<p>9. WELL NO. 16</p>
<p>14. API NUMBER 43-017-30007</p>		<p>10. FIELD AND POOL, OR WILDCAT Upper Valley Kaibab</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7028' GR</p>		<p>11. SEC., T., R., M., OR B.LK. AND SURVEY OR AREA T36S, R1E Sec. 11</p>
<p>12. COUNTY OR PARISH Garfield</p>		<p>13. STATE Utah</p>

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

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

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

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

On December 8, 1993, Citation acidized the above well w/500 bbls of 15% HCL. Shut in for 1 1/2 hrs.

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

SIGNED Sharon Ward TITLE Prod. Reg. Supv DATE 8-31-94

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE T.C.

CONDITIONS OF APPROVAL, IF ANY:

DESIGNATION OF WORKOVER OR RECOMPLETION

1. Name of Operator CITATION OIL & GAS CORP.	2. Utah Account Number N-0265	5. Well Name and Number UPPER VALLEY # 16
3. Address of Operator 8223 WILLOW PLACE SOUTH, SUITE 250		6. API Well Number 4301730007
HOUSTON, TX. 77070-5623	4. Telephone Number (713)469-9664	7. Field Name UPPER VALLEY
9. Location of Well Footage : OO, Sec. T., R.: 11 36S 1E		8. Field Code Number 9150
County : GARFIELD State : UTAH		

COMPLETE ALL SECTIONS. ATTACH ADDITIONAL SHEETS IF NEEDED.

10. TYPE OF WORK (Check One)

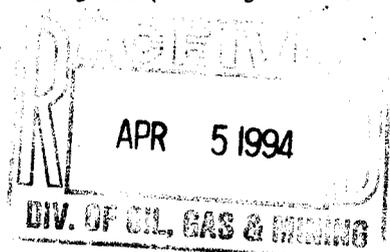
Production enhancement Recompletion

Convert to Injection Repair well

11. Date work commenced 12/7/93
Date work completed 12/8/93

12. THE FOLLOWING EXPENSES FOR OPERATIONS ARE SUBMITTED FOR DESIGNATION AS WORKOVER OR RECOMPLETION EXPENSES UNDER U.C.A. 59-5-102(4):

- a. Location preparation and cleanup
- b. Move-in, rig-up and rig-down (including trucking)
- c. Rig charges (including fuel)
- d. Drill pipe or other working string
- e. Water and chemicals for circulating fluid (including water hauling)
- f. Equipment purchase
- g. Equipment rental
- h. Cementing
- i. Perforating
- j. Acidizing
- k. Fracture stimulation
- l. Logging services
- m. Supervision and overhead
- n. Other (itemize)



PUMP SERVICE

Expenses	Division Approval
\$ 462.83	
94.50	
555.15	
134.08	
339.06	
\$ 1,585.56	

- o. Total submitted expenses
- p. Total approved expenses

13. LIST CONTRACTORS PROVIDING SERVICES VALUED AT MORE THAN \$3,000.00.

Contractor	Location (city, state)	Services Provided
HALLIBURTON	FARMINGTON, N.M.	ACIDIZE FORMATION

14. LIST WORKING INTEREST OWNERS WHO TAKE PRODUCT IN KIND AND ARE AUTHORIZED TO SHARE IN THE TAX CREDIT.

Name	Address	Utah Account No.	Percent of Interest

I hereby certify that the foregoing is true and correct

Name & Signature THOMAS E. GARBS *Thomas E. Garbs* Title SEV. TAX SUPERVISOR Date 3/31/94

(State Use Only)

3/31/94

Acidize

Page 2
Citation Oil & Gas Corp.
August 19, 1996

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 Dan Jarvis at (801)538-5338 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gil Hunt".

Gil Hunt
Environmental Manager, Oil & Gas

Enclosure

CITATION OIL	43-017-11221	#1	36S	01E	11	INJW
CITATION OIL	43-017-30007	#16	36S	01E	11	INJW
CITATION OIL	43-017-16028	#5	36S	01E	12	INJW
CITATION OIL	43-017-30065	#34	36S	01E	13	INJW
CITATION OIL	43-017-30048	#36	36S	01E	14	INJI
CITATION OIL	43-017-30041	#24	36S	01E	23	INJW
CITATION OIL	43-017-30036	#26	36S	01E	24	INJI
CITATION OIL	43-017-30130	#39	36S	01E	24	INJW
CITATION OIL	43-017-20258	#7	36S	01E	24	INJI
CITATION OIL	43-017-30047	#33	36S	01E	36	INJW
CITATION OIL	43-017-30033	#25	36S	01E	36	INJW
CITATION OIL	43-017-30030	#23	36S	02E	30	INJW
CITATION OIL	43-017-30013	#19	37S	02E	6	INJW



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)

August 19, 1996

Citation Oil & Gas Corp.
8223 Willow Place S Suite 250
Houston, Texas 77070-5623

Re: Pressure Test for Mechanical Integrity, Injection Wells,
Upper Valley Field, Garfield County, Utah

Gentlemen:

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October 1982. Our records indicate the above referenced wells are due for testing. Please make arrangements and ready the wells for testing during the week of September 16, 1996 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.



STATE OF UTAH
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

INJECTION WELL - PRESSURE TEST

Test Date: <u>10/2/96</u>	Well Owner/Operator: <u>Citation</u>
Disposal Well: _____	Enhanced Recovery Well: <u>X</u> Other: _____
API No.: <u>43-017-30007</u>	Well Name/Number: <u>#16</u>
Section: <u>11</u>	Township: <u>36S</u> Range: <u>1E</u>

Initial Conditions:

Tubing - Rate: _____ Pressure: 0 psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

<u>Time (Minutes)</u>	<u>Annulus Pressure</u>	<u>Tubing Pressure</u>
0	_____	_____
5	<u>300</u>	_____
10	<u>300</u>	_____
15	<u>300</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi

Casing/Tubing Annulus Pressure: 0 psi

REMARKS:

Passed MIT

Operator Representative

D. James
DOG M Witness

Utah Division of Oil, Gas, and Mining
Casing - Bradenhead Test

Operator: CITATION OIL AND GAS Field/Unit: UPPER VALLEY
 Well: #16 Township: 36S Range: 01E Sect:11
 API: 43-017-30007 Welltype: INJW Max Pressure: 300
 Lease type: FEDERAL Surface Owner: FOREST

Test Date:

5:30 9/16/91

CASING STRING	SIZE	SET AT	PRESSURE	OBSERVATIONS
Surface:	8 5/8	2161		<i>300 PSI</i>
Intermediate:		0		<i>Passed MIT.</i>
Production:	5 1/2	6330		
Other:		0		
Tubing:	3 1/2			
Packer:		5912		<i>FF.</i>
Recommendations:				

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:
Upper Valley Unit

1. Type of Well:
OIL GAS OTHER: **Injection Wells**

8. Well Name and Number:
Various

2. Name of Operator
Citation Oil & Gas Corp.

9. API Well Number:
Various 43-017-30007

3. Address and Telephone Number:
8223 Willow Place South, Suite 250, Houston, Texas 77070-5623 (281) 469-9664

10. Field and Pool, or Wildcat:
Upper Valley

4. Location of Well
Footages: **Various**
QQ, Sec., T., R., M.: **Sec. 6/7, T37S, R2E; Sec. 11, 12, 13, 14, 23, 24, 25 & 36, T36S, R1E; Sec. 30/31, T36S, R2E**

County: **Garfield**
State: **Utah**

11. 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 **Increase Injection Pressure Fieldwide**
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start **Upon Approval**

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

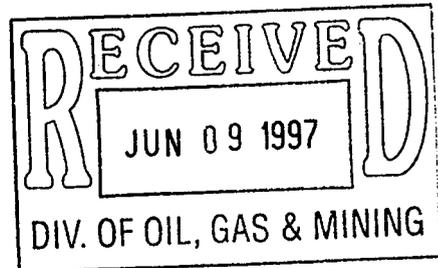
Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
Citation Oil & Gas Corp. requests approval to increase the permitted injection pressure for this field to a maximum of 500 psi for each well on the attached list. This request is made because current injection pressure requirements exceed the authorized injection pressure allowed under the permit.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6-6-97
BY: [Signature]**



13. Name & Signature: [Signature] **Debra Harris** Title: Regulatory Analyst Date: 6/6/97

(This space for State use only)

Current Permitted Injection Pressures / Injection Rates (per day):

Upper Valley #1	300 psi / 6000 bbls	API #43-017- 22100 11221
Upper Valley #5	300 psi / 6000 bbls	API #43-017-16028
→ Upper Valley #16	300 psi / 6000 bbls	API #43-017-30007
Upper Valley #19	250 psi / 6000 bbls	API #43-017-30013
Upper Valley #23	300 psi / 6000 bbls	API #43-017-30030
Upper Valley #24	300 psi / 6000 bbls	API #43-017-30041
Upper Valley #25	300 psi / 6000 bbls	API #43-017-30033
Upper Valley #33	300 psi / 6000 bbls	API #43-017-30047
Upper Valley #34	300 psi / 6000 bbls	API #43-017-30065
Upper Valley #39	250 psi / 6000 bbls	API #43-017-30130

Per Lisha Cordova, State of Utah, Oil, Gas & Mining

INJECTION WELL - PRESSURE TEST

Well Name: <u>Up #16</u>	API Number: <u>43-017-30007</u>		
Qtr/Qtr: _____	Section: <u>11</u>	Township: <u>36S</u>	Range: <u>1E</u>
Company Name: <u>Citation Oil</u>			
Lease: State _____	Fee _____	Federal _____	Indian _____
Inspector: <u>D. J. [Signature]</u>	Date: <u>10/3/01</u>		

Initial Conditions:

Tubing - Rate: _____ Pressure: _____ psi

Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>0</u>	_____
5	<u>310</u>	_____
10	<u>300</u>	_____
15	<u>310</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: Passed MFE.

[Signature]
Operator Representative

INJECTION WELL - PRESSURE TEST

Well Name: UV #16 API Number: 43-⁰¹⁷~~019~~-30007
 Qtr/Qtr: _____ Section: 11 Township: 36S Range: 1E
 Company Name: _____
 Lease: State _____ Fee _____ Federal _____ Indian _____
 Inspector: D. Jones Date: 10/3/01

Initial Conditions:

Tubing - Rate: _____ Pressure: _____ psi
 Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>0</u>	_____
5	<u>310</u>	_____
10	<u>310</u>	_____
15	<u>310</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi
 Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: Subsided MFI

Kenneth A. Fudge
 Operator Representative

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
U 019375

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name:

Upper Valley Unit

8. Well Name and Number:

Upper Valley Unit # 16

1. Type of Well:

OIL GAS OTHER: **Water Injection Well**

2. Name of Operator

Citation Oil & Gas Corp.

9. API Well Number:

43-017-30007

3. Address and Telephone Number:

P O Box 690688, Houston, Texas 77269 (281) 517-7800

10. Field and Pool, or Wildcat:

Upper Valley Kaibab

4. Location of Well

Footages: **2135' FEL & 1765' FNL**
QQ, Sec., T., R., M.: **SW NE SEC. 11-36S-1E**

County: **Garfield**

State: **Utah**

11. 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 **2002**

SUBSEQUENT REPORT

(Submit Original Form Only)

- Abandonment*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Citation Oil & Gas Corp. proposes to acidize the Upper Valley Unit's nine injection wells with 15% HCL with iron sequesterant, mutual solvent, non-emulsifying agent and inhibitor to reduce injection pressures. The amount will be based on current pressure and perforated intervals.

13.

Name & Signature:

Sharon Ward

Sharon Ward

Title:

Regulatory Administrator

Date:

1/16/02

(This space for State use only)

(12/92)

COPY SENT TO OPERATOR
 Date: 01-28-02
 Initials: CHD

(See Instructions on Reverse Side)

Accepted by the
Utah Division of
Oil, Gas and Mining
 Date: 01-28-02
 By: *[Signature]*

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

U 013734

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Upper Valley Unit

8. Well Name and Number:

Various

9. API Well Number:

43-017-30007

10. Field and Pool, or Wildcat:

Upper Valley Kaibab

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well:

OIL

GAS

OTHER: Injection Well

2. Name of Operator

Citation Oil & Gas Corp.

3. Address and Telephone Number:

P O Box 690688, Houston, Texas 77269 (281) 517-7800

4. Location of Well

Footages:

QQ, Sec. T., R., M.: S-16 T 363 R01E

County: Garfield

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

- Abandonment*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Citation Oil & Gas Corp. requests permission to acidize the following injection wells to improve injection performance using a combined total of 7500 gallons of 15% HCl acid containing iron sequestering and chelating agents, surfactant, and non-emulsifying chemicals. A proposed treating volume based on net perforated feet of pay and injection volume capacity is attached.

- Upper Valley Unit 1 - 4301711221
- Upper Valley Unit 5 - 4301716028
- Upper Valley Unit 16 - 4301730007
- Upper Valley Unit 19 - 4301730013
- Upper Valley Unit 23 - 4301730030
- Upper Valley Unit 25 - 4301730033
- Upper Valley Unit 33 - 4301730047
- Upper Valley Unit 34 - 4301730065
- Upper Valley Unit 39 - 4301730130

COPY SENT TO OPERATOR
Date: 10-27-04
Initials: CMO

13.

Name & Signature: Bridget Alexander Bridget Alexander Title: Regulatory Assistant Date: 10/20/04

(This space for State use only)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10/27/04
BY: [Signature]

(See Instructions on Reverse Side)

RECEIVED
OCT 26 2004

DIV. OF OIL, GAS & MINING

Federal Approval Of This
Action Is Necessary

UVU INJECTION WELL ACIDIZING SCHEDULE

<u>UVU WELL #</u>	<u>PROPOSED ACIDIZING VOLUME (gals 15% HCl)</u>
1	600
5	600
16	600
19	1050
23	600
25	950
33	1500
34	400
39	1200

Total = 7500 gallons

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

U 013734

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Upper Valley Unit

8. Well Name and Number:

Various

9. API Well Number:

10. Field and Pool, or Wildcat:

Upper Valley Kaibab

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well:

OIL

GAS

OTHER: **Injection Well**

2. Name of Operator

Citation Oil & Gas Corp.

3. Address and Telephone Number:

P O Box 690688, Houston, Texas 77269 (281) 517-7800

4. Location of Well

Footages:

QQ, Sec., T., R., M.:

County: **Garfield**

State: **Utah**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

Abandonment

Casing Repair

Change of Plans

Conversion to Injection

Fracture Treat

Multiple Completion

Other _____

New Construction

Pull or Alter Casing

Recompletion

Shoot or Acidize

Vent or Flare

Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

Abandonment*

Casing Repair

Change of Plans

Conversion to Injection

Fracture Treat

Other _____

New Construction

Pull or Alter Casing

Shoot or Acidize

Vent or Flare

Water Shut-Off

Date of work completion _____

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

On 12/28/2004, Citation Oil & Gas Corp. acidized the following wells using a total of 7650 gallons 15% HCL with additives as previously approved by your office. The wells were returned to injection following the acidization.

Upper Valley Unit 1 - 600 gals displaced with 9 bbls

Upper Valley Unit 5 - 600 gals displaced with 7 bbls

Upper Valley Unit 16 - 600 gals displaced with 7 bbls

Upper Valley Unit 19 - 1050 gals displaced with 25 bbls

Upper Valley Unit 23 - 1000 gals displaced with 8 bbls

Upper Valley Unit 25 - 1000 gals displaced with 9 bbls

Upper Valley Unit 33 - 1200 gals displaced with 47 bbls

Upper Valley Unit 34 - 500 gals displaced with 7 bbls

Upper Valley Unit 39 - 1100 gals displaced with 8 bbls

*7365 ROIE S-11
43-019-30007*

RECEIVED
JAN 11 2005

13.

Name & Signature:

Debra Harris

Debra Harris

Title:

Prod/Reg Coordinator

Date:

1/4/2005

(This space for State use only)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: U 019375
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		7. UNIT or CA AGREEMENT NAME: Upper Valley Unit
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		8. WELL NAME and NUMBER: Upper Valley Unit 16
3. ADDRESS OF OPERATOR: P O Box 690688 CITY Houston STATE TX ZIP 77269		9. API NUMBER: 4301730007
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1765 FNL & 2135 FEL		10. FIELD AND POOL, OR WILDCAT: Upper Valley Kaibab
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 11 36S 1E		COUNTY: Garfield
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>11/9/2006</u> <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input checked="" type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Citation Oil & Gas Corp. requests permission to repair a suspected casing leak in the above well and return to injection with the attached procedure.

RECEIVED TO COMPLETE
 DATE: 11/14/06
 BY: DM

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**
 Date: 11/14/06
 By: [Signature]

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>[Signature]</u>	DATE <u>11/7/2006</u>

(This space for State use only)

RECEIVED
NOV 13 2006

Well History Summary

Updated: 10/30/06 CSS

Well: Upper Valley Unit #16

API: 43-017-30007 Lease #: U-019375

COG: WI: 99.90% NRI: 86.35%

Location: 1765' FNL, 2135' FEL (SW/NW/SE) Sec. 11-T36S-R1E
Garfield County, Utah

Elevations: 7028' GL 7044' KB

TD: 6330' KB PBTD: 6298' KB

Casing: 8-⁵/₈" 243 J-55 @ 2161' w/ 150 sx (13-³/₄" Hole)
5-¹/₂" 15.5# J-55 @ 6330' w/ 250 sx w/ TOC @ 5400' (CBL) (7-⁷/₈" Hole)

Tubing: 3-¹/₂" PVC duolined tbg w/ model "R" DG pkr @ 5915'.

Init Compl: 3/9/69: Perf K-1: 6065' – 6073' w/ 5 holes. Acidize w/ 1000 gal 15% HCl. Swabbed 100% water. Perf K-2: 6101' – 6117' w/ 9 holes. Swabbed 100% water. Ran tracer survey K-1 through K-4 communicated. Sqz'd K-1: 6065' – 6073' & K-2: 6101' – 6117'.
Perf K-1: 6065' – 6073' w/ 5 holes. Acidize w/ 1000 gal 15% HCl.

IP: Swabbed 100% water all zones.

Logs: Unknown

Perforations: K-1: 6065' – 6073' 5 holes (Compl & acid & sqz'd: 12/68)
6065' – 6073' 5 holes (Compl & acid: 12/68, Acid: 7/89, 12/93)
K-2: 6101' – 6117' 9 holes (Compl & sqz'd: 12/68)
K-4: 6193 – 6213' 4 SPF (Frac w/2000 gal 28% acid 3/69)

Well Status: Active Water Injection Well

Workovers:

11/30/77 Ran 3-¹/₂" PVC duolined tbg w/ model "R" DG pkr @ 5915'. Note: Model "F" pkr @ 6010' still in hole

9/25/87 Acid w/ 1000 gal 15% HCl.

7/10/89 Acid w/ 900 gal

12/8/93 Acid w/ 500 bbl (gal??) 15%

10/2/96 Passed MIT

1/30/02 Acid w/ 675 gal

12/31/04 Acidize w/ 600 gal 15% HCL + additives

Work Over Procedure:

- Comments:
1. Well has been on injection since 1969.
 2. Failed MIT could either be a hole in the casing or a leaking packer.

Objective: Identify source of failed MIT.

1. MIRUSU.
2. ND Tree. NU 3M BOP's. TOO H w/ 3 1/2" tubing, standing back. Perform visual inspection of tubing.
3. PU and TIH with 4 5/8" bit and scraper to PBTD at 6298'.
4. RIH with RBP and PKR for 5 1/2" 15.5# J-55 casing. Set RBP @ 5500' PU and set packer @ 5495'. Test RBP to 1000 psi.
5. Navajo formation is located from 2575 to 4660'.
6. Isolate casing leak.
7. Once hole is located, establish injection rate and pressure (Monitor 5 1/2" x 8 5/8" annulus). Report results to Chad Stallard. Pressure test casing annulus to 500 psi to ensure there are no additional leaks up hole.
8. RIH and release RBP and PUH and set 50' below hole in casing and test to 1000 psi. Once tested dump 2 sacks sand on top. Set packer 200' above hole in casing.
9. RU Pump company and mix and squeeze cement as follows:
10. SD and wait on cement.
11. RDMO pump company.
12. Pressure test leak to 500 psi in morning before POOH and TIH with 4 5/8" bit and drill out cement. Will need 4-4 3/4" drill collars to drill out cement and pressure test squeeze perfs to 500# for 15 minutes.
13. If squeeze holds, POOH and PU RBP retrieving head and wash out to RBP and POOH with RBP.
14. TI with injection assembly, set injection packer at 5915' and MIT well. Coordinate MIT with State and BLM.
15. Do not return well to injection prior to obtaining approval from regulatory agency.
16. RDMOSU.

Notes:

- 5 1/2" 15.5# J-55 casing 4.95" ID, 4.825" Drift ID and 0.0238 bbl/ft. capacity.

List of Citation Contacts

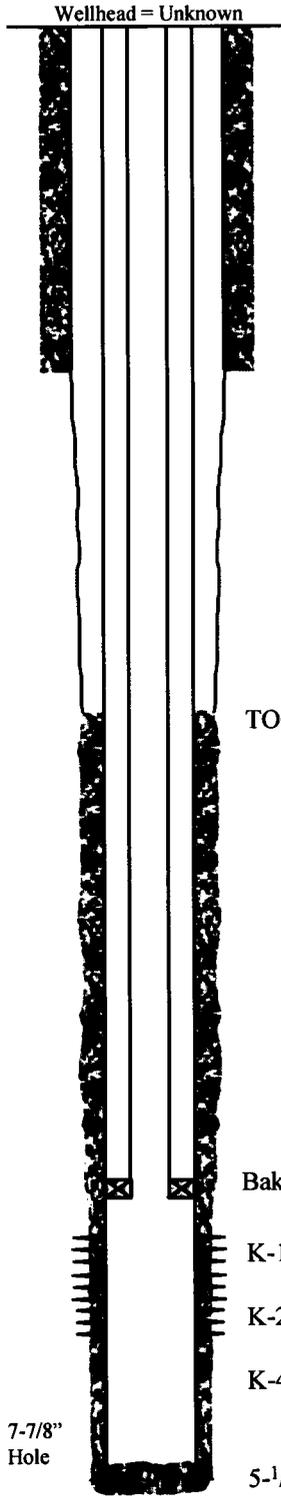
Foreman	Gary Harding
Engineer	Chad Stallard
Engineer	Jeff Teare

Office: 435.826.4245	
Office: 281-517-7527	Cell: 713.249.4671
Office 281-517-7199	Cell: 713-731-2514

CITATION OIL AND GAS CORPORATION WELLBORE DIAGRAM AND INFORMATION

Well Name: UVU #16 Field: Upper Valley Unit
 Updated: 10/30/06 CSS Location: (SW/NW/SE) Sec. 11-T36S-R1E
 County: Garfield State: Utah
 Current Stat: Active Water Injection Well

Surface: 1765' FNL, 2135' FEL (SW/NW/SE)
 Sec. 11-T36S-R1E
 Garfield County, Utah
 Completed: 3/9/69
 Elevation: 7028'
 KB: 16'
 API #: 43-017-30007



8-⁵/₈" 243 J-55 @ 2161' w/ 150 sx (13-³/₄" Hole)

TOC: 5400' (CBL)

Baker Model R DG Packer at 5915'

- K-1: 6065' - 6073' 5 holes (Compl & acid & sqz'd: 12/68)
 6065' - 6073' 5 holes (Compl & acid: 12/68, Acid: 7/89, 12/93, 1/02)
- K-2: 6101' - 6110' 9 holes (Compl & sqz'd: 12/68)
 6101 - 6110' 9 holes (12/68)
- K-4: 6193 - 6213' 4 SPF (Frac w/2000 gal 28% acid 3/69)

7-7/8"
Hole

PBTD: 6298'
TD: 6330'

5-¹/₂" 15.5# J-55 @ 6330' w/ 250 sx

TUBING DETAIL			
Qty	Description	Length	Depth
---	KB	16.00	16.00
	3-1/2" PVC duolined tbg	5,899.00	5,915.00
	model "R" DG pkr		5,915.00



November 7, 2006

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

43-017-30007
36S 1E 11

Attn: Dan Jarvis
UIC Department

RE: Response to Letter October 26, 2006
Repair of Suspected Casing Leak
Upper Valley Unit 16, 25, 33

Dear Mr. Jarvis:

Citation is responding to your letter dated October 26, 2006 regarding failed mechanical integrity tests that were run on the Upper Valley Unit 16, 25 and 33 wells on October 24, 2006.

We suspect these wells may have casing leaks and submit the enclosed procedures to repair, test and return to injection upon your approval.

I am faxing this information to you today and requesting verbal approval from you to start work on the Upper Valley 25 on Wednesday November 8, 2006. Upon completion of this well we will move to the Upper Valley 16 and finally the Upper Valley 33 well.

Citation will submit the subsequent sundries upon completion of the repairs and successful MIT's of each of these procedures.

If you require additional information from Citation in order to process this request, please contact the undersigned, at 281-517-7309 or Chad Stallard at 281-517-7527. Thank you.

Sincerely,

Sharon Ward
Permitting Manager
Citation Oil & Gas Corp.

RECEIVED

NOV 13 2006

DIV. OF OIL, GAS & MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>UPPER VALLEY UNIT #16</u>	API Number: <u>43017300070600</u>
Qtr/Qtr: <u>SW NE</u> Section: <u>11</u>	Township: <u>36S</u> Range: <u>1E</u>
Company Name: <u>CITATION</u>	
<u>71-619378</u>	
Lease: State _____ Fee _____	Federal _____ Indian _____
Inspector: <u>T. SMITH</u>	Date: <u>10/28</u>

Initial Conditions:

Tubing - Rate: 2509/04 Pressure: 0 psi
 Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	_____	_____
5	_____	_____
10	_____	_____
15	_____	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

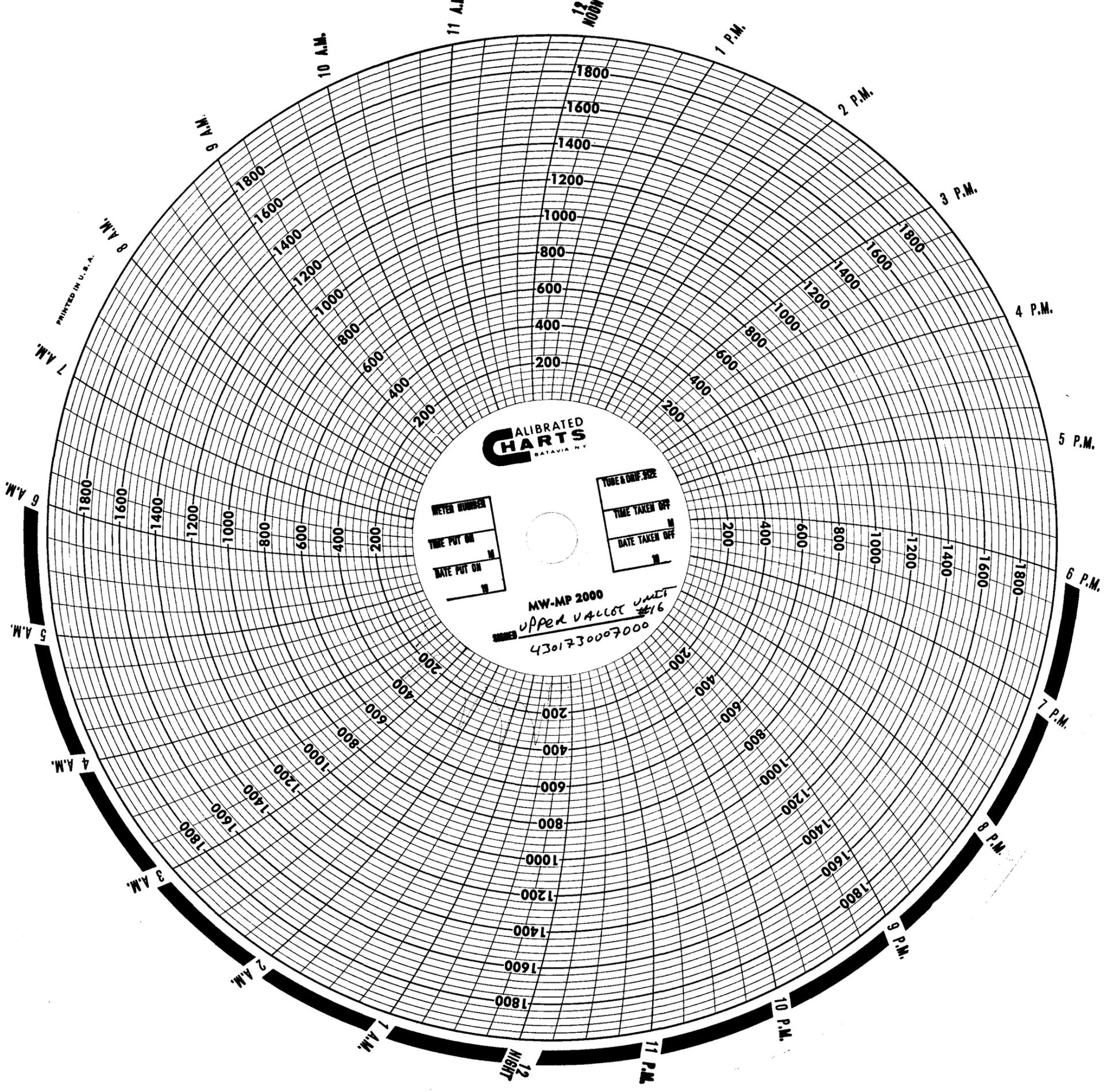
Conditions After Test:

Tubing Pressure: _____ psi
 Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: ACTIVE INJECTION WELL 4 TIMES @ 400
DEO NOT HOLD DROPPED TO 120 ALL TIMES. 4 BBLS OF
PRODUCTION WATER USED.
FAILED TEST

Glen Wilson
 Operator Representative

PRINTED IN U.S.A.



CALIBRATED CHARTS
 BATAVIA, N.Y.

WEYER NUMBER
 TIME PUT ON
 DATE PUT ON

TUBE & ORIF. SIZE
 TIME TAKEN OFF
 DATE TAKEN OFF

MW-MP 2000
 UPPER VALLEY UNIT #16
 43073007000

9 A.M.

5 A.M.

4 A.M.

3 A.M.

2 A.M.

1 A.M.

12 MIDDN

11 P.M.

10 P.M.

9 P.M.

8 P.M.

7 P.M.

6 P.M.

5 P.M.

4 P.M.

3 P.M.

2 P.M.

1 P.M.

12 MIDDN

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: U 019375
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		7. UNIT or CA AGREEMENT NAME: Upper Valley Unit
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		8. WELL NAME and NUMBER: Upper Valley Unit 16
3. ADDRESS OF OPERATOR: P O Box 690688 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77269</u>		9. API NUMBER: 4301730007
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1765 FNL & 2135 FEL		10. FIELD AND POOL, OR WLDCAT: Upper Valley Kaibab
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 11 36S 1E		COUNTY: Garfield
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input checked="" type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 11/14/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Citation Oil & Gas Corp. pressured casing w/flowline to 250 psi. Leaked off. RU fill pit tank. Hooked up rig pump to casing to establish a pressure rate to 550 psi. Noticed water around tubing at wellhead. Took packing apart, cleaned and reassembled wellhead. Pressured up casing to 925 psi. Held for 45 minutes. Dropped pressure to 300 psi for 30 minutes. Left 300 psi on over night. Charted on 11/15/06. 340 psig for 1 hr. OK. Moved off location.

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u><i>Sharon Ward</i></u>	DATE <u>11/15/2006</u>

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NOV 20 2006

DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal Field Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (435) 781-4400
Fax: (435) 781-4410

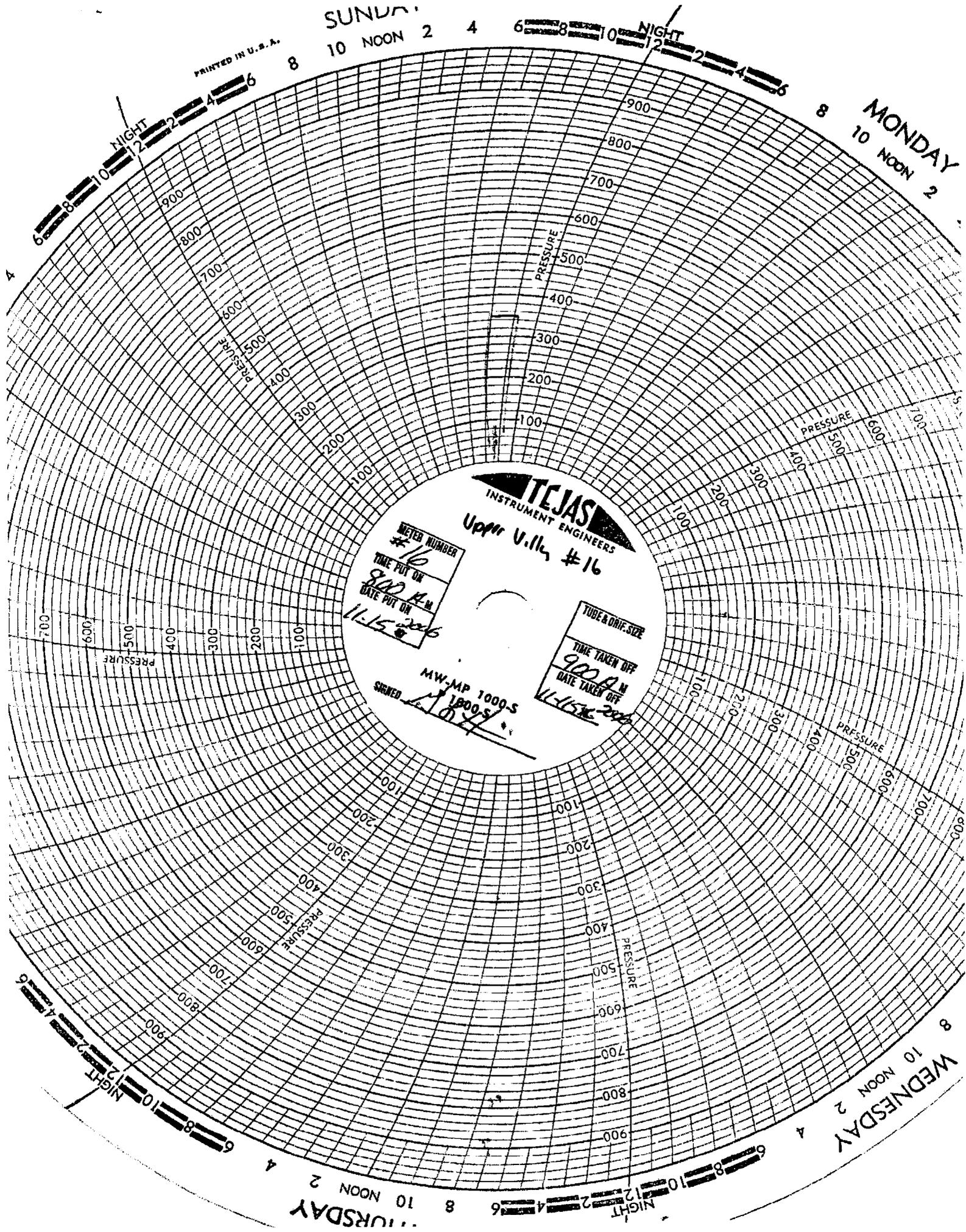
IN COMPLIANCE WITH

MECHANICAL INTEGRITY PRESSURE TEST
CASING/TUBING ANNULUS

LEASE NO.: _____
 COMPANY NAME: Citation Oil + Gas DATE: 11-15-06
 WELL NAME: Upper Valley unit #16 PERMIT NO.: _____
 FIELD NAME: Upper Valley unit COUNTY: Garfield
 WELL LOCATION: 1/41/4 SEC. 11 TWN. 36S RNG. 1E
 WELL TYPE: SWD X ER _____ 2H _____ OTHER: _____
 TYPE OF PACKER: model R DG TOTAL DEPTH 6330'
 PACKER SET DEPTH (ft): 5915'
 SURFACE CASING SIZE: 8 5/8 FROM: 0 FT. to 2161' FT.
 CASING SIZE: 5 1/2 FROM: 0 FT. to 6330' FT.
 TUBING SIZE: 3 1/2 TUBING PRESSURE DURING TEST: 0 PSIG
 TIME OF DAY: 8:00 am/pm

TIME (min)	TEST 1	TEST 2
0	<u>340</u> psig	_____ psig
5	<u>340</u> psig	_____ psig
10	<u>340</u> psig	_____ psig
15	<u>340</u> psig	_____ psig
20	<u>340</u> psig	_____ psig
25	<u>340</u> psig	_____ psig
30	<u>340</u> psig	_____ psig
35	<u>340</u> psig	_____ psig
40	<u>340</u> psig	_____ psig
45	<u>340</u> psig	_____ psig
50	<u>340</u> psig	_____ psig
55	<u>340</u> psig	_____ psig
60	<u>340</u> psig	_____ psig

TEST CONDUCTED BY: Amy Handley
 INSPECTED BY: _____
 OTHERS PRESENT: Brian Bush



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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: U 019375
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		7. UNIT or CA AGREEMENT NAME: Upper Valley Unit
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		8. WELL NAME and NUMBER: Upper Valley Unit 16
3. ADDRESS OF OPERATOR: P O Box 690688 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77269</u>		9. API NUMBER: 4301730007
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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SWNE 11 36S 1E</u>		COUNTY: <u>Garfield</u> STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 11/14/2006	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

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FEB 20 2008

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>11/15/2006</u>

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PRINTED IN U.S.A.

ALIBRATED
CHARTS
BATAVIA N.Y.

UVU 16
4301730007

METER NUMBER

1409

TIME PUT ON

DATE PUT ON

10/27/2001

TUBE & ORIF. SIZE

14:58

TIME TAKEN OFF

DATE TAKEN OFF

365 IE II
MW-MP 2000

CHART

