

FILE NOTATIONS

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

Checked by Chief *PWB*
Approval Letter *10-9-71 J. L. Lewis*
Disapproval Letter

COMPLETION DATA:

Rate Well Completed
I..... WW..... TA.....
W..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

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

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

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.)
 At surface 440' F/NL and 690' F/EL (NE 1/4 of NE 1/4)
 At proposed prod. zone **NWNE**

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 16. NO. OF ACRES IN LEASE
 17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 19. PROPOSED DEPTH
 7250 7500
 20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 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	3000	Suff. to fill 500' above Dakota
7-7/8"	5-1/2	15.5	7250-7500	Suff. to fill 500' above Kaibab

Well to be drilled to approximately ⁷⁵⁰⁰~~7250~~, Log, run 5-1/2" casing to T.D. Casing will be perforated and formation treated as necessary for water injection. 30' of 20" Culvert pipe as conductor will be set and cemented prior to rig up. (If coal is encountered 0 to 500', it will be cemented with 1" pipe per USGS instructions). A 13-3/4" hole will be drilled to 3000' and if warranted by lost circulation, hole will be reamed to 18" and set 16" casing as required. A 2-1/16" parasite string will be run to casing point on outside of surface pipe to aerate returns.

B. O. P. to be tested each 24 hrs. APPROVED BY DIVISION OF OIL & GAS CONSERVATION

APPROVED IN ACCORDANCE WITH THE ORDER DATE 10-7-71
 ISSUED IN CAUSE NO. 143-1, 4/21/71 BY B. J. Knight

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 B. A. Ford TITLE Sr. Production Clerk DATE 10/5/71

(This space for Federal or State office use)
 PERMIT NO. 43-017-30041 APPROVAL DATE _____

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

5. LEASE DESIGNATION AND SERIAL NO.
 U-019379
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 Upper Valley Unit
 8. FARM OR LEASE NAME
 9. WELL NO.
 24
 10. FIELD AND POOL, OR WILDCAT
 Upper Valley
 11. SEC. T. R. M., OR BLM. AND SURVEY OR AREA
 Sec. 23, T-36-S, R-1-E
 12. COUNTY OR PARISH
 Garfield
 13. STATE
 Utah

COMPANY **TENNECO OIL COMPANY**

Well Name & No. **UPPER VALLEY NO. 24**

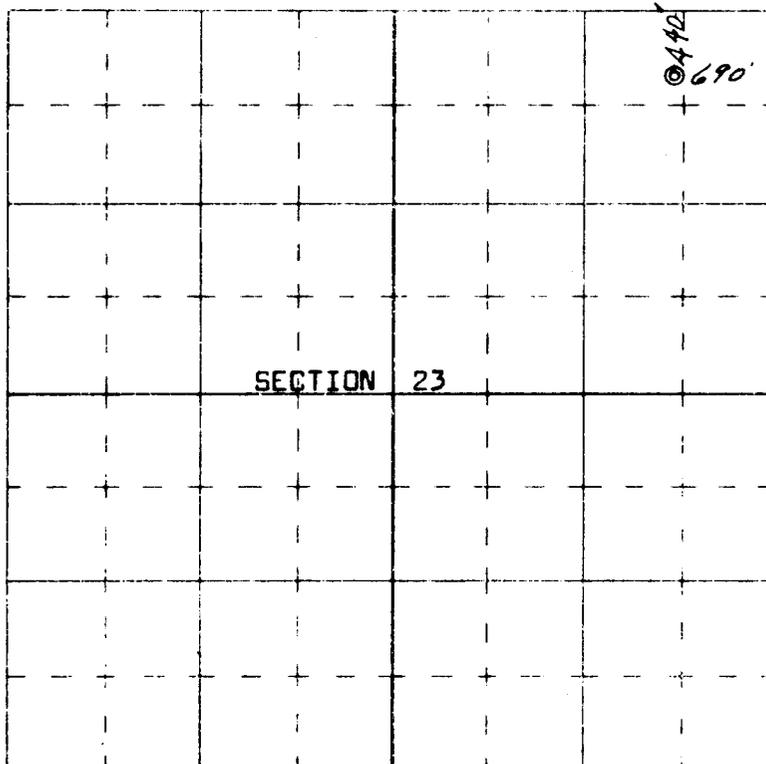
Lease No.

Location **440 Feet From the North Line and 690 Feet From the East Line**

Being in **NENE**

Sec. **23** T **36S** R **1E**, S.L.M., Garfield County, Utah

Ground Elevation **7592' ungraded**



Scale -- 4 inches equals 1 mile

Surveyed **29 September**

19 **71**

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.



ERNST ENGINEERING CO.
DURANGO, COLORADO

Registered Land Surveyor.

Robert H. Ernst
Colo. PE & LS 4979
New Mexico PE & LS 2463

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP;
(Other instruction
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-019379

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.

24

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 23, T36S, R1E

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

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 Water Injection Well

2. NAME OF OPERATOR
Tenneco Oil Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
440' F/NL and 690' F/EL
(NE 1/4 of NE 1/4)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7592 GR.

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(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.)

Well spudded 11/1/71 with 13-3/4" hole and drilled to T. D. of 3100', Ran 95 jts. q 8-5/8" 24# casing landed at 3100'. cemented with 750 sacks. Tested casing and B. O. P. to 1000 psi, held OK. A 2-1/16" Parasite string was run on outside of 8-5/8" landed at 3026' to aerate returns. 40' of 21" culvert pipe was run as conductor pipe and cemented to surface. Now preparing to drill out with a 7-7/8" hole.

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

SIGNED

S. A. Ford

TITLE

Sr. Production Clerk

DATE

11/9/71

(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 TRIPI
(Other instruction
verse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

U-019379

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 Water Injection Well

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, Colo. 80203

9. WELL NO.

24

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

440' F/NL and 690' F/EL
(NE 1/4 of NE1/4)

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

Sec. 23, T36S, R1E

14. PERMIT NO.

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

7592 GR

12. COUNTY OR PARISH

13. STATE

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

Drilled 7-7/8" hole to T. D. of 7300' on 11/17/71, logged, Ran 232 jts. of 5-1/2 15.5 # landed at 7300'. cemented with 225 sacks. Released rig 11/18/71 and now waiting on completion unit.

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

SIGNED

G. A. Ford

TITLE

Sr. Production Clerk

DATE

11/19/71

(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 TRIPlicate (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R-724

5. LEASE DESIGNATION AND SERIAL NO.

U-019379

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.

24

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 23, T36S, R1E

12. COUNTY OR PARISH 13. STATE

Garfield Utah

1. OIL WELL [] GAS WELL [] OTHER Water Injection 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 440' FNL and 690' FEL (NE 1/4 of NE 1/4)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7592 GR

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 [X] FRACTURE TREATMENT [] SHOOTING OR ACIDIZING [X] (Other) []

REPAIRING WELL [] ALTERING CASING [] ABANDONMENT* []

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

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

Moved in completion unit 11/28/71, installed B.O.P. Tested casing & B.O.P. to 1000 psi, held okay. Cleaned out to PBTD of 7260', perforated 7133', 7135', & 7137' w/1 JS each, acidized w/500 gals of 28% LSTNE, swabbed, tested dry. Set C.I.B.P. at 7125'. Perforated 7102'-14' w/24 JS, 7064'-72' w/9 JS, 7036'-42' w/4 JS, 7016-30' w/8 JS, and 6975'-94' w/10 JS. Swabbed, acidized 6975'-7114' w/5000 gals of 28% LSTNE & 3000 gals Diesel, swabbed. Ran 216 jts of 3 1/2" fiber glass pipe and Baker Model F Packer landed at 6625'. Hooked up well for injection 1/8/72. Started injection 1/14/72 at 7112 BWPD on vac.

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

SIGNED

[Signature]

TITLE

Sr. Production Clerk

DATE

1/17/72

(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 Instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-019379

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.

24

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 23, T36S, R1E

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other Water Inj. Well

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

At surface 440' FNL and 690' FEL
At top prod. interval reported below (NE/4 of NE/.)

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUNDED

11/1/71

16. DATE T.D. REACHED

11/17/71

17. DATE COMPL. (Ready to prod.)

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

7592 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

7300

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

7125

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-7300

CABLE TOOLS

--

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

None (started injection 1/14/72)

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

SNP, DIL, BHC-GR, FDC, HDT

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	3100	13-3/4"	750 sacks	
5-1/2"	15.5#	7300	7-7/8"	225 sacks	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2	6625	6625

31. PERFORATION RECORD (Interval, size and number)

6975-94 ----- W/10 JS
7016-30 ----- W/ 8 JS
7036-42 ----- W/ 4 JS
7064-72 ----- W/ 9 JS
7102-14 ----- W/24 JS
7133, 35, 37 ----- W/ 1 ea JS

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6975-7137	5,500 gals 28% LSTNE
	3,000 gals Diesel

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASINO 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

None

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

SIGNED

G. A. Ford

TITLE

Sr. Production Clerk

DATE

1/17/72

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 38, below regarding separate reports for separate completions.

Item 4: 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.), formations 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.)

JAN 19 1972

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 Kaibab	3460 6967	5580 7174	Sandstone, water productive by log. Dolomite, water productive by test.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Navajo	3470	
Chinle	5580	
Shinarump	6040	
Moenkop	6160	
Kaibab	6967	

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

January 17, 1972

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Upper Valley Unit No. 24
Operator Tenneco Oil Company Address Suite 1200 Lincoln Tower Bldg. (303)
Denver, CO. 80203 Phone 292-9920
Contractor Loffland Bros Address P.O.Box 688 (505)
Farmington, N.M. 87401 Phone 325-5001
Location NE 1/4 NE 1/4 Sec. 23 T. 36 N R. 1 E Garfield County, Utah
S W

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	<u>Well drilled with mud and no water flow encountered</u>		
2.	<u></u>		
3.	<u></u>		
4.	<u></u>		
5.	<u></u>		

(Continue on reverse side if necessary)

Formation Tops:

Navajo 3470
Chinle 5580
Shinarump 6040
Moenkopi 6160
Kaibab 6967

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.

UBA

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 24

SEC. 23 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>24</u>	Field <u>Upper Valley</u>	County <u>Garfield</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NE NE</u> Sec. <u>23</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 <u>existing injector</u> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	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 Unit</u>	Geologic Name(s) <u>Kaibab</u> and Depth of Source(s) <u>6000-6900'</u>		
Geologic Name of Injection Zone <u>Kaibab</u>	Depth of Injection Interval <u>6975</u> to <u>7137</u>		
a. Top of the Perforated Interval: <u>6975</u>	b. Base of Fresh Water: <u>4500</u>	c. Intervening Thickness (a minus b) <u>6475</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Lithology of Intervening Zones <u>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

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

Linda Hancock
Notary Public

My commission expires Sept. 7, 1987

Notary Public in and for the State of Colorado

Linda Hancock
6884 S. Prescott St.
Littleton, CO 80120

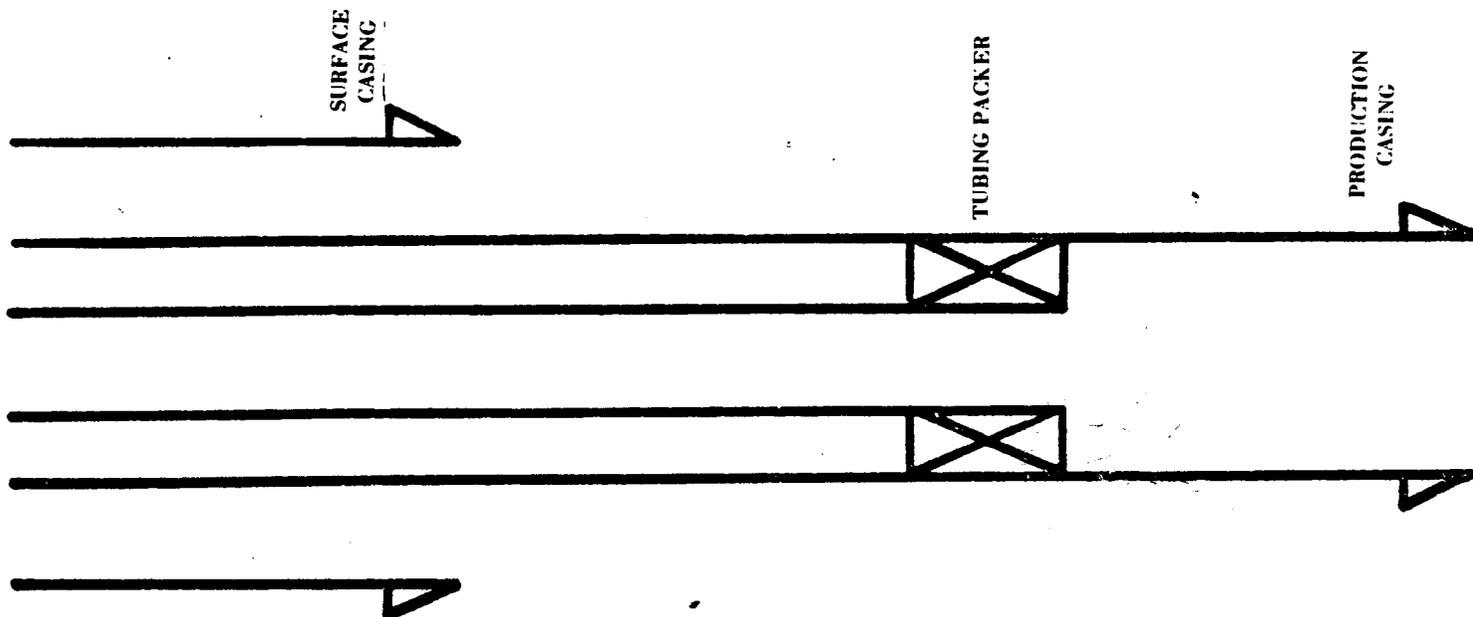
(OVER)

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"	3100	950	surface	returns
Intermediate					
Production	5 1/2"	7300	200	6236'	CBL
Tubing	3 1/2"	6620	Name - Type - Depth of Tubing Packer BAKER MODEL-D @6620		
Total Depth 7300	Geologic Name - Inj. Zone Kaibab		Depth - Top of Inj. Interval 6975		Depth - Base of Inj. Interval 7137

SKETCH - SUB-SURFACE FACILITY



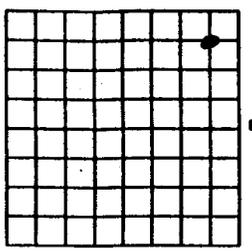
(To be filed within 30 days after drilling is completed)

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
640 Acres



COUNTY Garfield SEC. 23 TWP. 365 RGE. 1E

COMPANY OPERATING TENNECO

OFFICE ADDRESS P.O. Box 3249

TOWN Englewood STATE CO ZIP 80155

FARM NAME Upper Valley WELL NO. 24

DRILLING STARTED 10 1971 DRILLING FINISHED 19

DATE OF FIRST PRODUCTION _____ COMPLETED _____

WELL LOCATED NE NE NE

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

ELEVATION DERRICK FLOOR 7612 GROUND 7599

Lease by

TYPE COMPLETION

Single Zone single Order No. _____

Multiple Zone _____ Order No. _____

Comingled _____ Order No. _____

LOCATION EXCEPTION _____ Order No. _____ Penalty _____

OIL OR GAS ZONES

Name	From	To	Name	From	To
Kaibab	6975	7137			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
8 5/8	24	K-55	3100		950		
5 1/2	15.5	K-55	7300		200		

TOTAL DEPTH 7300

PACKERS SET 6620'
DEPTH _____

FORMATION	Kaibab		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	inj. well		
PERFORATED	6975-6994		
INTERVALS	7016-7030		
	7036-7042		
	7064-7072		
	7102-7114		
ACIDIZED?	7133-7137		
	yes		
FRACTURE TREATED?	no		

INITIAL TEST DATA

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 _____

	CF	CF
		CF

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.

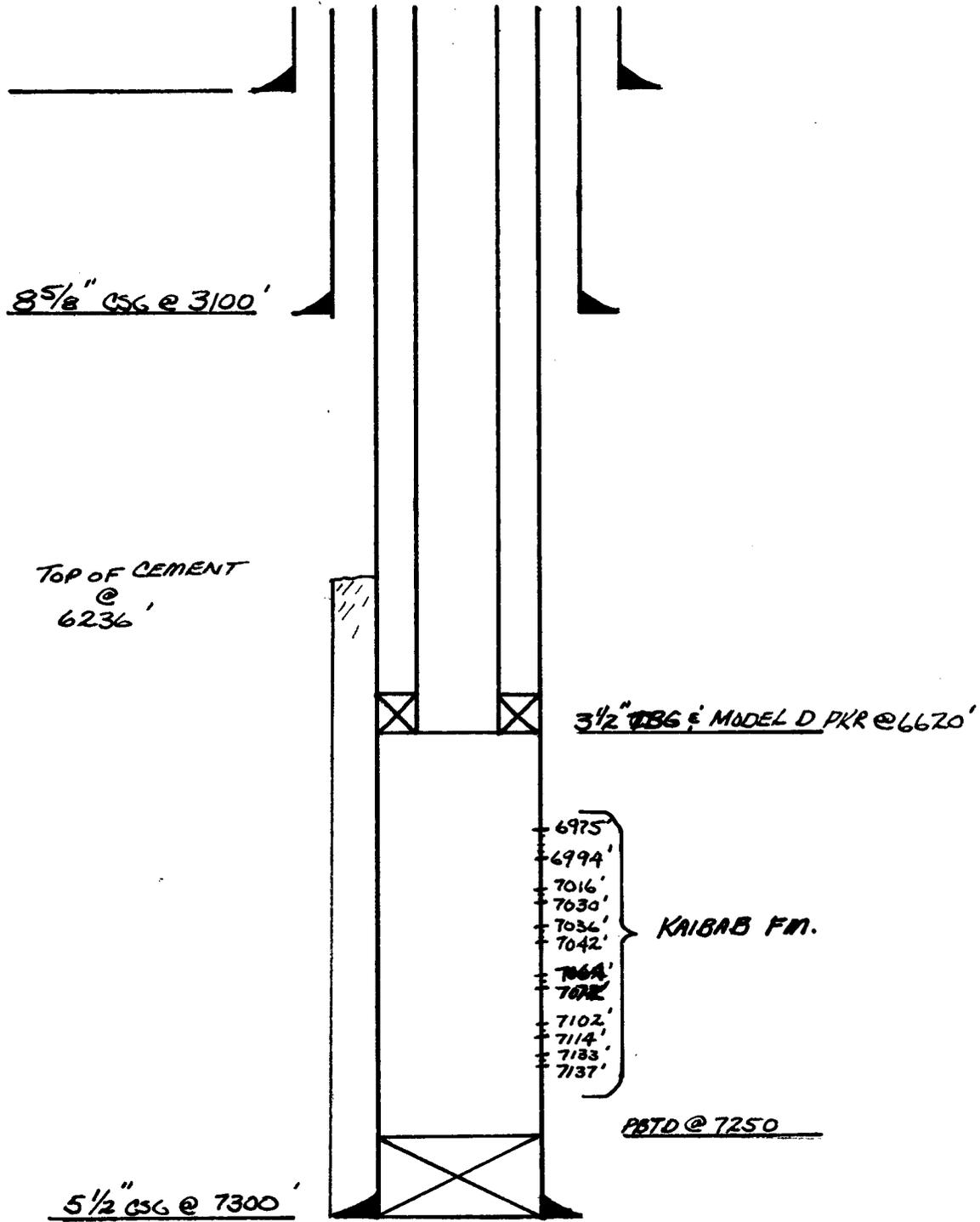
Telephone (303) 740-4800 Harry Hufft, Production Manager
Name and title of representative of company

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

My Commission Expires Sept. 7, 1987
Linda Hancock

6884 S. Prescott St.
Littleton, CO 80120

TENNECO OIL COMPANY
UPPER VALLEY UNIT WELL NO. 24
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

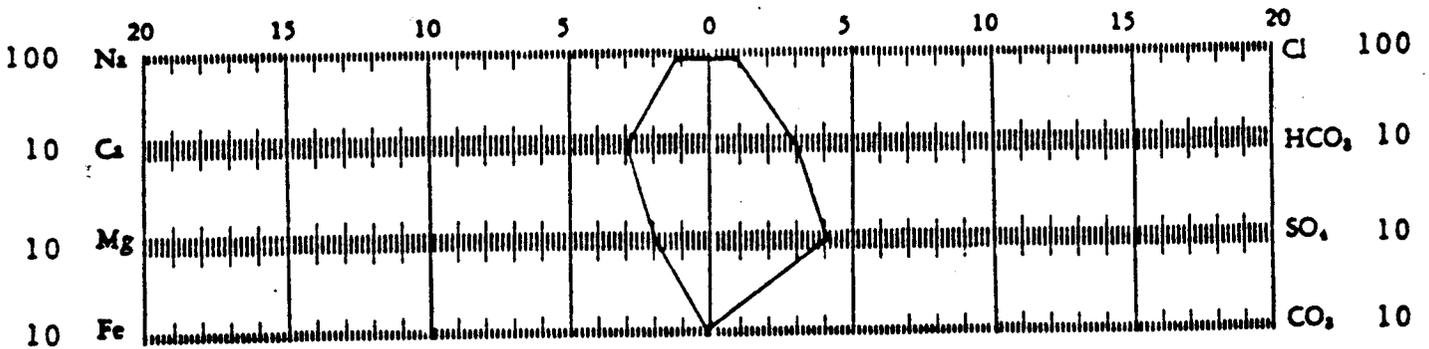
Page 5 of 8
 File IWTL-71107

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.



Scale: meq/L

	<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

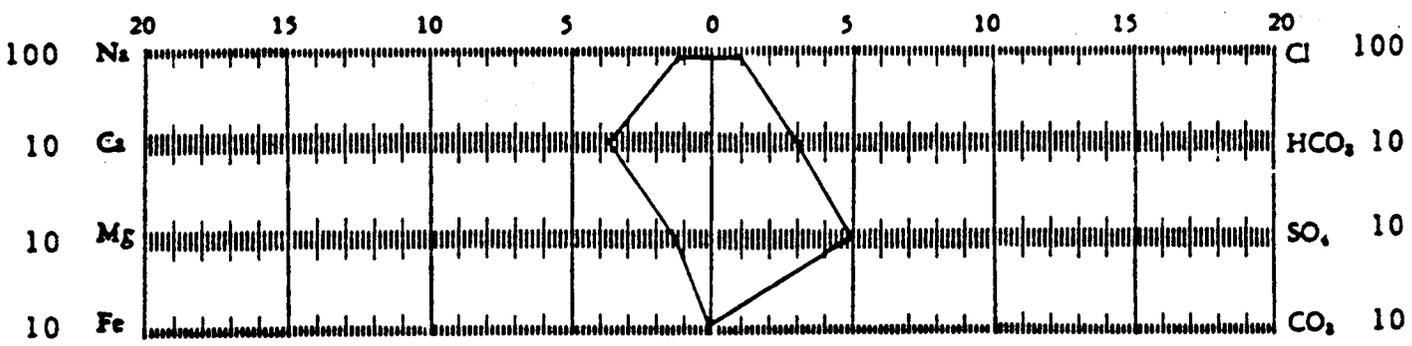
Page 2 of 8
 File IWTL-71107

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	98.42	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.



Scale: meq/L

	<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

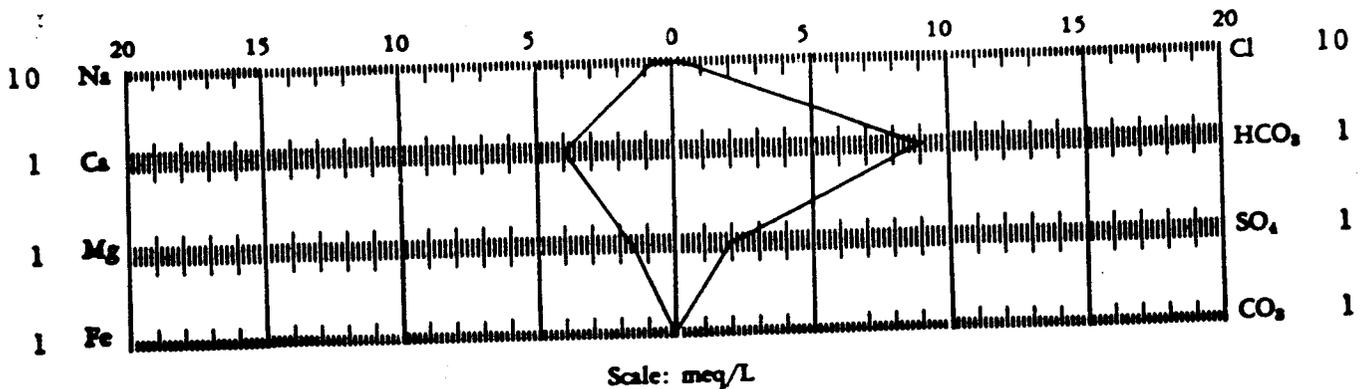
Specific Gravity 1.0027 @ 60 °F.

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.

RECEIVED
OCT 20 1983

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DIVISION OF OIL, GAS & MINING
DAILY NOTICES AND REPORTS ON WELLS
(Use Form 9-331-C for such proposals.)

1. oil well gas well other Water Injection

2. NAME OF OPERATOR
Tenneco Oil Company (303) 740-2584

3. ADDRESS OF OPERATOR
P.O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 440' FNL, 690' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-019379

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Upper Valley Unit

8. FARM OR LEASE NAME
Upper Valley Unit

9. WELL NO.
24

10. FIELD OR WILDCAT NAME
Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23, T36S, R1E

12. COUNTY OR PARISH
Garfield

13. STATE
UT

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7592' GR

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

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) _____	

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

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

09/16/83: RIH w/fullbore cmtr & isolate top csg leaks.

09/18/83: RIH w/fullbore cmtr to 2792' KB & set. Put away 75 sxs of RBC tailed by 60 sxs of Class H w/12-1/4# per sx Gilsonite & 2% CaCl₂.

09/19/83: Pmp 2nd sqz job using 24 bbls RFC cmt & 31 bbls of Class H cmt w/12-1/4#/sx gilsonite & 2% CaCl₂.

09/20/83: Tag TOC @3,055' KB. Drld 659' of hard cmt to w/full rtns.

09/21/83: Press tst'd annulus to 500 psig. O.K. Circ'd hole clena & contin'd to drl to 4209' w/full retns..

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Production Analyst DATE 10/14/83

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Instructions

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

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

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

GPO : 1981 O - 347-166

09/22/83: Estab'd reverse circ & drld out cmt to approx 4290'
PT to 500 psi. O.K.

09/24/83: Cmt'd csg leaks w/150 sxs of RFC tailed by 150 sxs of
class H. Estimated TOC @ 4283'.

09/26/83: DOC fr 4050' to 4776'. Press tst to 250 psi. Held
O.K.

09/27/83: Drl out cmt fr 4776' to 5153' w/full retns.

09/28/83: Drld cmt fr 5153-5465. Press tst @ 250 psi.

09/30/83: PT csg to 300 psi. Held OK

10/01/83: Drld cmt fr 5662' to 5789'.

10/03/83: Drld cmt fr 5789' to 6085'.

10/04/83: Drld cmt fr 6085-6105'. Press tst to 500 psi Held OK

10/13/83: Hooked up wellhead to flowline. RD MOSU.

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

OPERATOR: Tenneco Oil Exploration & Production Co
 FIELD: Upper Valley COUNTY Garfield
 WELL # 24 NE/NE SEC. 23 TOWNSHIP 36S RANGE R1E
 STATE FED. FEE DEPTH 7300 TYPE WELL INJ W MAX. INJ. PRESS. 3000

TEST DATE 3/2/84

CASING STRING	SIZE	SET AT	CMT SACKS	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>8 5/8"</u>	<u>3100</u>	<u>950</u>	<u>0</u>	<u>VACUUM FOR 1min 12Sec</u>	
<u>INTERMEDIATE</u>	<u>0</u>					
<u>PRODUCTION</u>	<u>5 1/2"</u>	<u>7300</u>	<u>200</u>			
<u>TUBING</u>	<u>3 1/2"</u>	<u>6620</u>	<u>PACKER</u>	<u>535 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>						

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * *

Operator: Tenneco Well No. Upper Valley U #24
 County: Garfield T 345 R 1E Sec. 23 API# 43-017-30041
 New Well Conversion Disposal Well Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<u>Unit agreement</u>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Source	<u>Karibab</u>	<input type="checkbox"/>
Analysis of Injection Fluid	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>11,604</u>
Analysis of Water in Formation to be injected into	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>11,604</u>
Known USDW in area	<u>None</u>	Depth <u>4500'</u>
Number of wells in area of review	<u>2</u> Prod.	<u>2</u> P&A
	<u>0</u> Water	<u>0</u> Inj.
Aquifer Exemption	Yes <input type="checkbox"/> NA <input checked="" type="checkbox"/>	
Mechanical Integrity Test	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Date	<u>3-2-84</u>	Type <u>Brokenhead</u>

Comments: TOC 4234

Reviewed by: 

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLIC/
(Other instructions on
reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations.
See also space 17 below.)
At surface
440' FNL, 690' FEL

14. PERMIT NO. _____

15. ELEVATIONS (Show whether DV, ST, OR, etc.)
7592' FR

RECEIVED

MAY 20 1985

DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-019379

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Upper Valley Unit

9. WELL NO.
24

10. FIELD AND POOL, OR WILDCAT
Upper Valley

11. SEC., T., R., M., OR ALN. AND
SUBST. OR AREA
Sec 23 T36S R1E

12. COUNTY OR PARISH 13. STATE
Garfield UT

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

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

(NOTE: Report results of multiple completion or 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 requests permission to clean out to PBD to increase injectivity according to the attached detailed procedure.

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

SIGNED

[Signature]

TITLE

Sr. Regulatory Analyst

DATE May 13, 1985

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

4496/3

LEASE Upper Valley Unit

WELL NO. 24

CASING:

8-5/8"OD, 24 LB, K-55 CSG.W/ 850 SX

TOC @ Surf. HOLE SIZE 13-3/4" DATE 11-6-71

REMARKS _____

5-1/2"OD, 15.5 LB, K-55 CSG.W/ 200 SX

TOC @ 6236'. HOLE SIZE 7-7/8" DATE 11-8-71

REMARKS TOC by CBL

TUBING:

3-1/2"OD, 9.3 LB, J-55 GRADE, 8 RD, EUE CPLG

LANDED @ 6620'. SN, PACKER(Baker Retrieva D)

*Tbg duolined by Rice Engineering

PUMP _____ RODS _____ ANCHOR _____

DETAILED PROCEDURE:

1. MIRUSU. SI injection. NDWH.
2. Release anchor seal assy (turn to right pulling 2 pts over string) and POOH w/3-1/2" duolined tbg, laying dn. NUBOPE.
3. RIH w/2-7/8" work string, 5-1/2" csg scraper, and 4-3/4" bit to ± 6600'. POOH w/bit and scraper.
4. RIH w/2-7/8" tbg, 6 - 3-1/2" drill collars, hydraulic jars, and retrieving head for 5-1/2" "Retrieva-D" pkr.
5. Latch onto pkr. Jar free & POOH w/tbg, collars, jars, & pkr.
6. RIH w/2-7/8" tbg, 5-1/2" csg scraper and 4-3/4" bit. Tag fill. POOH w/tbg.
7. RIH w/2-7/8" tbg and hydrostatic bailer. CO w/bailer to PBD @ 7250'. POOH w/tbg & bailer. NDBOPE.
8. RIH w/3-1/2" duolined injection tbg and Baker 5-1/2" "R-3" packer. (Rice Engineering Technician to be on location, Lloyd Vulgamore, 505-392-5700; also a 5-1/2" R-3 packer is currently in TOC stock at Baker packers, Farmington).
9. Set pkr @ ± 6600'. Load BS w/corrosion inhibited pkr fluid. NUWH. RDMOSU. POI.

3100'

3 1/2" 9.3*
BRD EUE
DUOLINED TBG
211 JTS

BAKER "FR"
ON-OFF TOOL
(LEFT RELEASE)

BAKER RETRIEVA-D
@ 6620'

ANCHOR SEAL ASSY

K-1 { 6975'
6994'
7016'
K-2 { 7042'
7064'
K-3 { 7072'
7092'
K-4 { 7137'

7250'

7300'

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 CO DATE 9/23/86

WELL TYPE: DISPOSAL _____ ENHANCED RECOVERY OTHER _____

WELL NAME: 24 Upper Valley API NO. 43-017-30040 LEASE NO. 0-019379

SECTION 23 TOWNSHIP 36 S RANGE 1 E COUNTY GARFIELD

SURFACE CASING 8 5/8 @ 3100 WITH 950 SX CEMENT

INTERMEDIATE CASING _____ @ _____ WITH _____ CEMENT

PRODUCTION CASING 5 1/2 @ 7300 WITH 200 SX CEMENT

TUBING 3 1/2 @ 6620

PACKER SET @ 6620 TYPE BAKER MODEL "D"

CONDITIONS DURING TEST:

TUBING PRESSURE: 10 psig.

CASING/TUBING ANNULUS PRESSURE 200 psig. for 15 minutes

CHANGE DURING TEST 320 decreased 200#

CONDITIONS AFTER TEST:

TUBING PRESSURE: 10 psig.

CASING/TUBING ANNULUS PRESSURE: 0 psig.

COMMENTS: 6000 BHPD/300 PSI

- INJECTING

* LEAK in seal in tubing packing at well head
Pressure decrease during test probably all due to
leak @ wellhead.

Dorothy Swindell
WITNESS

[Signature]
WITNESS

Operator *Ch...*

TRIPPLICATE
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or to recomplete a well. Use "APPLICATION FOR PERMIT" for such proposals.)

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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.	15. ELEVATIONS (Show whether of, to, or etc.)	9. WELL NO.
		10. FIELD AND POOL, OR WILDCAT Upper Valley - Kaibab
		11. SEC., T., R., M., OR B.L. 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"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Sale of Unit</u>	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

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:

Tenneco 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	43-017-11221 ✓
	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	43-017-30016 ✓
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	SW/SW	Sec. 24, T-36-S, R-1-E	<u>43-017-30036</u> ✓
Pow / KBAB			
Upper Valley #27	NW/SE	Sec. 7, T-37-S, R-2-E	<u>43-017-30039</u> ✓
Pow / KBAB			
Upper Valley #28	NW/NE	Sec. 24, T-36-S, R-1-E	<u>43-017-30032</u> ✓
Pow / KBAB			
Upper Valley #29	SW/SW	Sec. 13, T-36-S, R-1-E	<u>43-017-30034</u> ✓
Pow / KBAB			
Upper Valley #30	SE/NW	Sec. 24, T-36-S, R-1-E	<u>43-017-30037</u> ✓
Pow / KBAB			
Upper Valley #31	SE/NE	Sec. 14, T-36-S, R-1-E	<u>43-017-30042</u> ✓
Pow / KBAB			
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> ✓

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

Operator: CITATION OIL AND GAS Field/Unit: UPPER VALLEY
 Well: #24 Township: 36S Range: 01E Sect: 23
 API: 43-017-3004^{yl} Welltype: INJW Max Pressure: 300
 Lease type: FEDERAL Surface Owner: FOREST

Test Date: 9/17/91

CASING STRING	SIZE	SET AT	PRESSURE	OBSERVATIONS
Surface:	8 5/8	3100		<i>TP = 450 casing pressure is 0 Pressured to 300psi 3 times. Will slowly bleed off to approx 100psi and stabilize.</i>
Intermediate:		0		
Production:	5 1/2	7300		
Other:		0		
Tubing:	3 1/2			
Packer:		6620		

Recommendations:

D. Janni
 recommend monitoring BACKSIDE
 on weekly Basis

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <u>Injection</u>		3. LEASE DESIGNATION AND SERIAL NO. U-019379
2. NAME OF OPERATOR Citation Oil & Gas Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 8223 Willow Place South Ste 250 Houston, Texas 77070		7. UNIT AGREEMENT NAME Upper Valley
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 440' FNL & 690' FEL T36S, R1E, Sec. 23		8. FARM OR LEASE NAME Upper Valley
14. API NUMBER 43-017- 30041		9. WELL NO. 24
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7592' GR		10. FIELD AND POOL, OR WILDCAT Upper Valley Kaibab
16. APT NUMBER 43-017- 30041		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA T36S, R1E Sec. 23
17. COUNTY OR PARISH Garfield		12. 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"/>
SMOOT 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 1½ 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-019379</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Upper Valley</p> <p>8. FARM OR LEASE NAME Upper Valley</p> <p>9. WELL NO. 24</p> <p>10. FIELD AND POOL, OR WILDCAT Upper Valley Kaibab</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA T36S, R1E Sec. 23</p> <p>12. COUNTY OR PARISH 13. STATE Garfield Utah</p>
<p>RECEIVED APR 4 1994</p>		
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection</p>		
<p>2. NAME OF OPERATOR Citation Oil & Gas Corp.</p>		
<p>3. ADDRESS OF OPERATOR 8223 Willow Place South Ste 250 Houston, Texas 77070</p>		
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 440' FNL & 690' FEL T36S, R1E, Sec. 23</p>		
<p>14. API NUMBER 43-017- 30041</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7592' GR</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) _____	(Other) _____

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

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

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 J.C.

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



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.



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,



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	24	INJI
CITATION OIL	43-017-30033	#25	36S	01E	36	INJW
CITATION OIL	43-017-30030	#23	36S	01E	36	INJW
CITATION OIL	43-017-30013	#19	36S	02E	30	INJW
			37S	02E	6	INJW

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>43-017-30041</u>	Well Name/Number: <u>#24</u>
Section: <u>23</u>	Township: <u>36 S</u> Range: <u>1 E</u>

Initial Conditions:

Tubing - Rate: _____ Pressure: VAC psi
 Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

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

Results: Pass/Fail Fail

Conditions After Test:

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

REMARKS:

Would not fill - pumped ~ 80 bbls water
Failed MIT. - recommend Remedial work

Operator Representative _____

D. James
 DOGM Witness

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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.

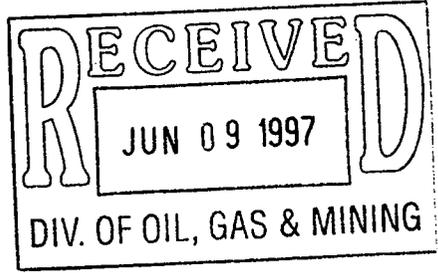
1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: Injection Wells	5. Lease Designation and Serial Number:
2. Name of Operator Citation Oil & Gas Corp.	6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: 8223 Willow Place South, Suite 250, Houston, Texas 77070-5623 (281) 469-9664	7. Unit Agreement Name: Upper Valley Unit
4. Location of Well Footages: Various County: Garfield 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 State: Utah	8. Well Name and Number: Various 9. API Well Number: Various 43-017-300A1 10. Field and Pool, or Wildcat: Upper Valley

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other Increase Injection Pressure Fieldwide	<input type="checkbox"/> Abandonment* <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____ 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.
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start Upon Approval	

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: 6-16-97
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- 22400 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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other **Injection**

2. Name of Operator
CITATION OIL & GAS CORP.

3a. Address
8223 Willow Pl S., #250, Houston, TX 77070-5623

3b. Phone No. (include area code)
(281) 469-9664

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
440' FNL & 690' FEL NE NE Sec. 23-36S-1E

5. Lease Serial No.
U-019379

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
Upper Valley Unit

8. Well Name and No.
Upper Valley Unit #24

9. API Well No.
43-017-30041

10. Field and Pool, or Exploratory Area
Upper Valley

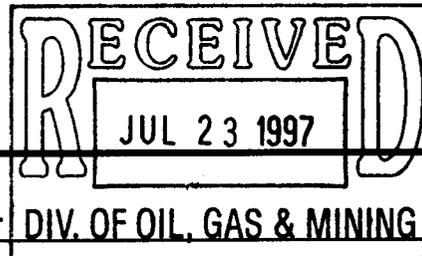
11. County or Parish, State
Garfield, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MI RU. Release seal assembly, TOH w/3 1/2" injection string. Redress seal assembly. TIH w/RBP and test packer on 2 7/8" work string. Set RBP @ +/- 6300 KBM. Set packer 1 joint above RBP, test RBP to 1000 psi. Dump 1 sack sand on RBP. Use packer to isolate leak, establish rate and pressure into leak. Squeeze leak. Cement volume and type will be determined relative to leak conditions. Drill out squeeze with 4 3/4" milled tooth bit and 6 3 1/8" drill collars. Test casing to 300 psi after drilling out. TIH to RBP and circulate clean. TOH, LDDC. TIH w/ retrieving head to RBP. Circulate clean. Displace hole with packer fluid. Pull RBP, LD work string. TIH w/redressed seal assembly and 3 1/2" Duolined injection string. Sting into packer, fill annulus with packer fluid. RDMO, return to injection.



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

Name (Printed/Typed)
Sharon Ward

Signature
Sharon Ward

Title
Regulatory Administrator

Date
7-17-97

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title **APPROVED BY THE STATE** Date _____
 Office **OF UTAH DIVISION OF OIL, GAS, AND MINING**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

DATE: **7/23/97**
 BY: *[Signature]*

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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.

5. Lease Designation and Serial Number:
U019379 (Federal)

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:
Upper Valley Unit

8. Well Name and Number:
Upper Valley Unit #24

9. API Well Number:
43-017-30041

10. Field and Pool, or Wildcat:
Upper Valley Kaibab

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

2. Name of Operator:
Citation Oil & Gas Corp.

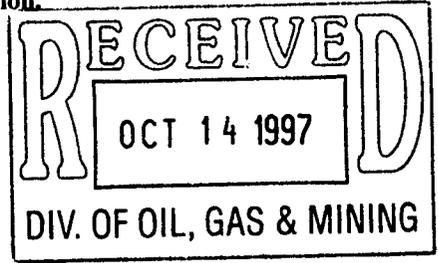
3. Address and Telephone Number:
8223 Willow Place South, Suite 250, Houston, Texas 77070-5623 (281) 469-9664

4. Location of Well
Footages: **440' FNL & 690' FEL**
County: **Garfield**
QQ, Sec., T., R., M.: **NE NE Sec. 23, T36S, R1E**
State: **Utah**

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ Approximate date work will start _____	<input type="checkbox"/> Abandonment* <input checked="" type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____ 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.
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off

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 8/14/97, MIRU, released seal assembly and TOH with 3-1/2" injection string. TIH with RBP and test packer, set packer @6291' and RBP @6271'. Isolated leak @4230' - 4261'. Shut well in. Found leak at 6145' - 6209'. Set RBP @6083'. Checked BP to 1000# - tested OK. Pulled packer to 4261' and tested tubing - OK. Set packer @4230' and est'd inj. rate in upper leak @0.33 bpm - 520 psi. Ran in hole with workstring to 6075'; circ'd sand off RBP and POOH. RIH with retainer and 209 jts 2-7/8" workstring. Set retainer @6550' KB, pumped 50 BFW down tubing to fill annulus to static. POOH, LD workstring and RDMO. Job complete 9/5/97 - left well shut in for evaluation.

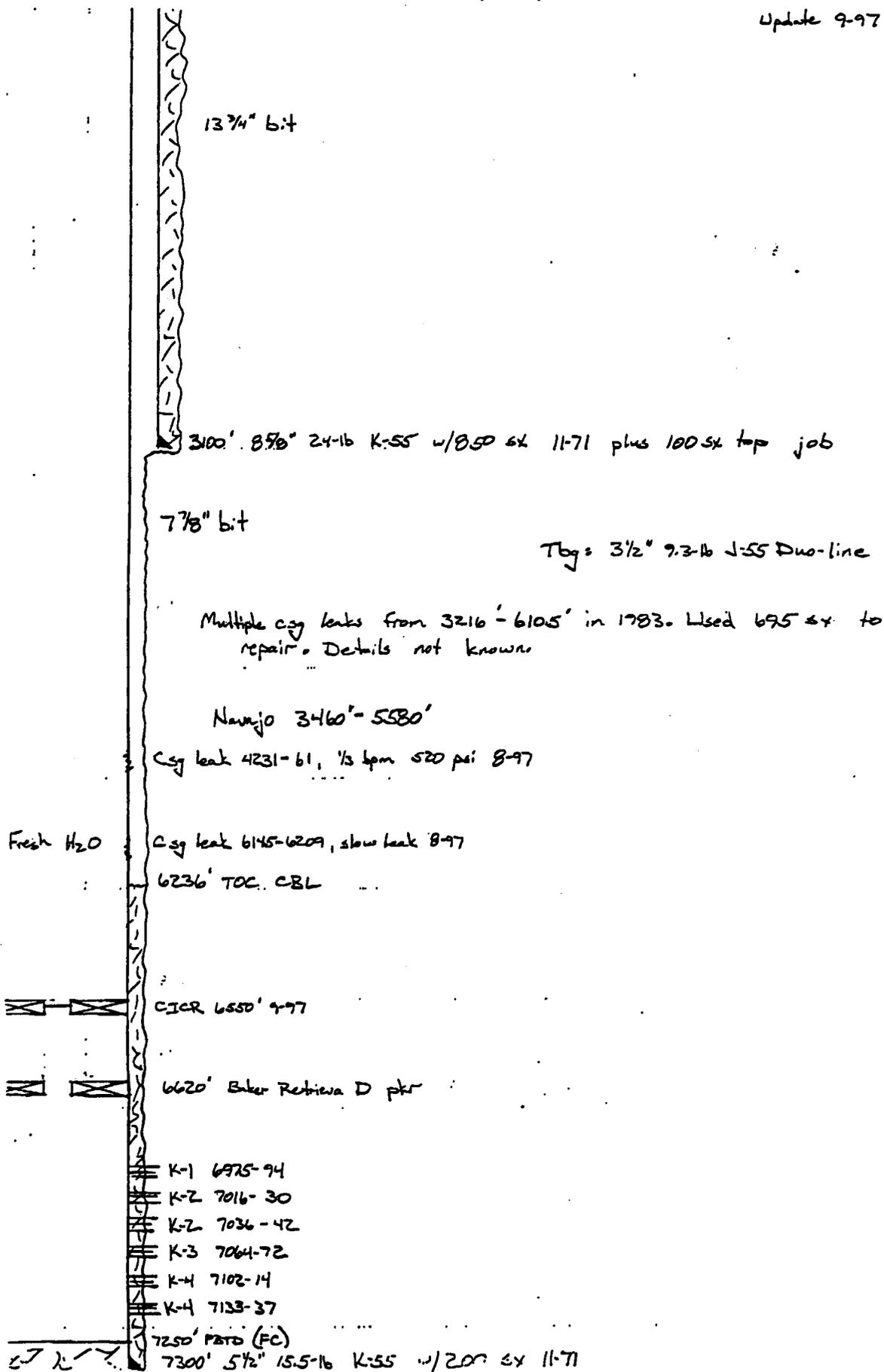


13. Name & Signature: *Debra Harris* **Debra Harris** Title: Regulatory Analyst Date: 10/8/97

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LVL 24
NE/NE Sec 23-T36S-R1E
Garfield Co, WY

BC 397
Update 9-97



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

U 019379

SUNDRY NOTICES AND REPORTS ON WELLS

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Upper Valley Unit

1. Type of Well:

OIL GAS OTHER: Injection

8. Well Name and Number:

Upper Valley Unit #24

2. Name of Operator

Citation Oil & Gas Corp.

9. API Well Number:

43-017-30041

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: 440' FNL & 690' FEL
QQ, Sec. T., R., M.: NE NE Sec.23-36S-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 April 1998

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.)
UVU 24 -Proposed P&A Procedure

1. TIH w/tbg to CICR @ 6550 KBM. Pump 75 sxs Class "B" below CICR. Sting out, dump 6 sxs (50') on top of CICR.
2. Pull tbg to +/- 6500 KBM, reverse circulate clean. Spot 20 bbls packer fluid from 6500-5630 KBM. (Note: fresh water based packer fluid is adequate to contain reservoir pressure) TOH.
3. Perforate squeeze holes @ 5630 KBM. TIH w/CICR, set @ +/- 5580 KBM. Pump 35 sxs Class "B" below CICR; sting out, dump 6 sxs on top of CICR.
4. Pull tbg to +/- 5530 KBM, reverse circulate clean. Spot 48 bbls packer fluid from 5530-3510 KBM. TOH.
5. Perforate squeeze holes at 3510 KBM. TIH w/CICR, set @ +/- 3460 KBM. Pump 35 sxs Class "B" below CICR, sting out, dump 6 sxs on top of CICR.
6. Pull tbg to +/- 3410 KBM, reverse circulate clean. Spot 6 bbls packer fluid from 3410-3150 KBM. TOH.
7. Perforate squeeze holes at 3150 KBM. TIH w/CICR, set @ +/- 3100 KBM. Pump 37 sxs Class "B" below CICR, sting out, dump 6 sxs on top of CICR.
8. Pull tbg to +/- 3050 KBM, reverse circulate clean. Spot 72 bbls packer fluid from 3050-surface. TOH, spot 40' Class "B" neat (4 1/2 sxs) inside 5 1/2" casing. Use 1" tbg to spot 40' Class "B" neat (6 sxs) in 5 1/2" X 8 5/8" annulus.
9. Cut off wellhead, install marker as per BLM/Forest Service specifications. Reclaim location as per stipulations.

13.

Name & Signature:

Sharon Ward

Sharon Ward

Title:

Regulatory Administrator

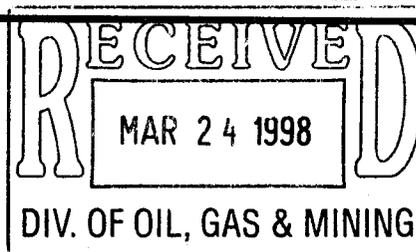
Date:

3-12-98

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

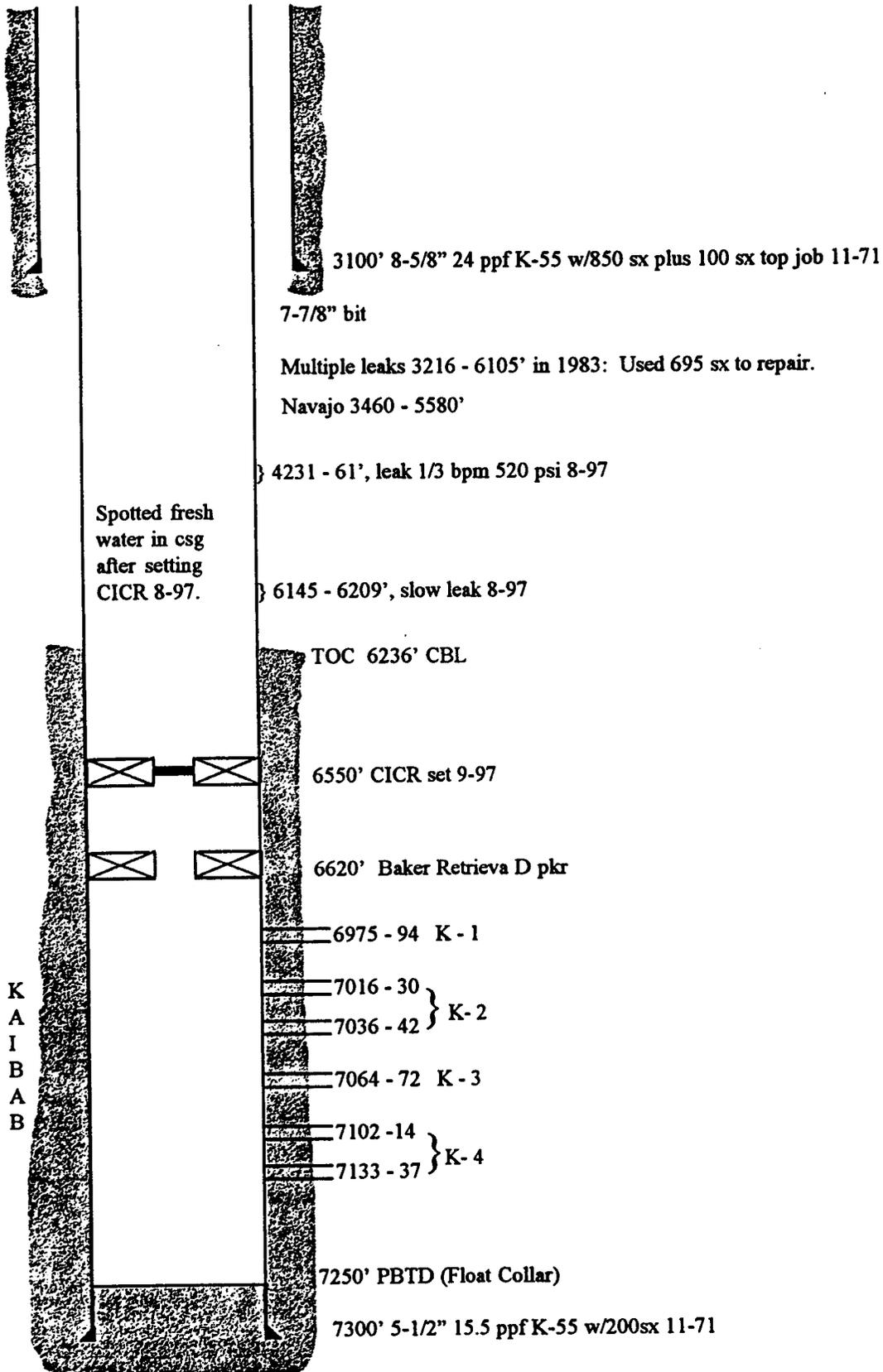
DATE: 3-30-98
BY: [Signature]



Current status 2-98: TA

Upper Valley Unit 24
NE/NE Sec 23-T36S-R1E
Garfield Co., UT
API No.: 43-017-30041

File: ppt/bobc/uvu24v1

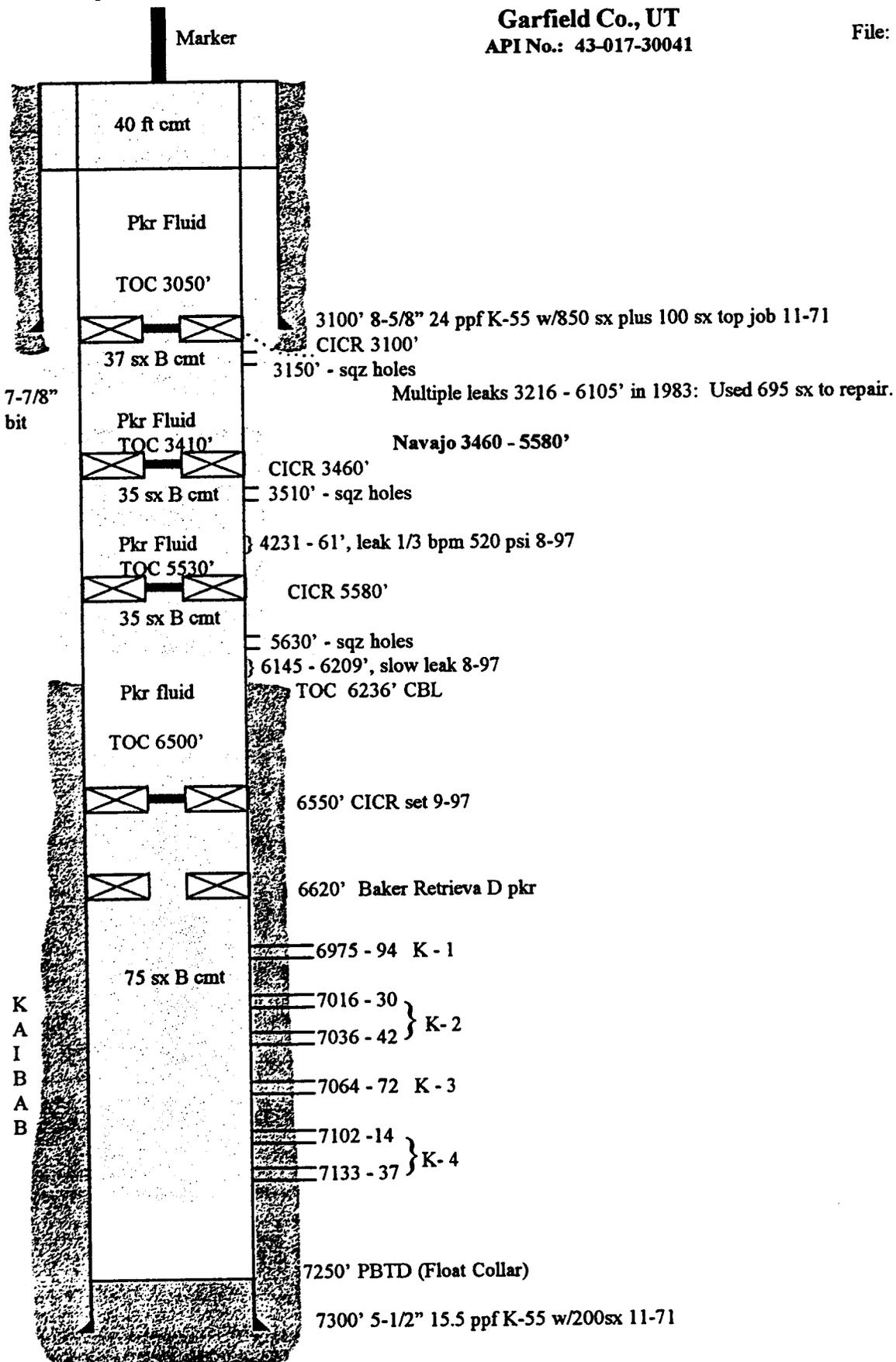


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Upper Valley Unit 24
 NE/NE Sec 23-T36S-R1E
 Garfield Co., UT
 API No.: 43-017-30041

File: ppt/bobc/uvu24pa

Proposed status: P&A



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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4. Location of Well: Footages: 440' FNL & 690' FEL QQ, Sec., T., R., M.: NE NE; Sec. 23, T36S, R1E	8. Well Name and Number: Upper Valley Unit #24
	9. API Well Number: 43-017-30041
	10. Field and Pool, or Wildcat: Upper Valley
	County: Garfield State: Utah

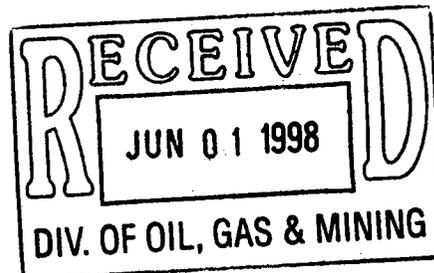
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Approximate date work will start <u>5/21/98</u>	Date of work completion <u>5/24/98</u>
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form * Must be accompanied by a cement 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 5/21/98, MIRU and TIH with CICR stinger & tubing - set CICR @6553' KB. Circ'd hole clean, stung into CICR, est'd inj. rate - 3 bpm @850 psi. Mixed & pumped 75 sx 15.9# "B" cement below CICR; 6 sx above retainer. Pumped 20 bbls pkr fluid. reverse circulated tubing clean and pumped 40 bbls packer fluid to 3510' RIH with gauge ring and perforating tool; tagged up @4213'; RIH with 4-3/4" bit to 5662'. Ran gauge ring to 5630' and perf'd casing with 3 shots @5630'. Set retainer @5568', circulated hole and stung into CICR, est'd inj. rate. Spotted 42 sx in tubing and stung into CICR. Pumped 7 sx below retainer and squeezed to 1100#; pumped 35 sx above retainer - TOC @5262'. Perf'd squeeze holes @3510'. RIH with CICR & set @3465' Est. inj. rate - 3 bpm @250#. Pumped 35 sx "B" cement below CICR, stung out and dumped 6 sx above retainer. Rev circ'd and spotted 6 bbls packer fluid from 3408'-3150'; perf'd squeeze holes @3097', set CICR @3097' and filled casing. Est. inj. rate and pumped 43 sx 15.9# cement - 3 sx below CICR & 40 above; TOC @2742'. Pumped 65 bbls packer fluid to surface and 8 sx (62') plug to surface. ND and cut off wellhead. Loaded 8-5/8" x 5-1/2" annulus - pumped 40 sx cement surface plug. WOC. Tagged cement @24'; recemented 5-1/2" & top of 8-5/8" with 24 sx. Welded on dry hole marker. **WELL PLUGGED & ABANDONED on 5/24/98. Location will be reclaimed per BLM/US Forest Service stipulations at a later date.**

13. Name & Signature: Debra Harris Title: Regulatory Analyst Date: 5/28/98

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

COMPANY NAME: CITATION OIL & GAS CORP.

WELL NAME: UPPER VALLEY UNIT #24

QTR/QTR: NE/NE SECTION: 23 TOWNSHIP: 36S RANGE: 1E

COUNTY: GARFIELD API NO: 43-017-30041

INSPECTOR: DAVID HACKFORD TIME: VARIOUS DATE: 5/21 TO 5/24/98

SURFACE CASING SHOE DEPTH 3100' CASING PULLED YES NO

CASING PULLED: SIZE NA CUT DEPTH FT/CSG RECOVERED

CASING TESTED YES NO TESTED TO: PSI TIME: MIN:

CEMENTING COMPANY: BIG A SERVICES

CEMENTING OPERATIONS: P&A WELL:

PLUG 1. SET: FT. TO FT. TAGGED YES NO

SLURRY:

PLUG 2. SET FT. TO FT. TAGGED YES NO

SLURRY:

PLUG 3. SET FT. TO FT. TAGGED YES NO

SLURRY:

PLUG 4. SET FT. TO FT. TAGGED YES NO

SLURRY:

SURFACE PLUG: FROM 55 FT. TO SURFACE

ALL ANNULUS CEMENTED TO SURFACE: YES NO

PLUGGING FLUID TYPE: CORTRON R2383 PACKER FLUID.

PERFORATIONS: FROM ALL BELOW 2456' FT. TO FT.
FROM FT. TO FT.

1 CIBP SET: NONE. FOUR CEMENT RETAINERS SET. SEE PAGE TWO FOR DEPTHS.

2 CIBP SET:

ABANDONMENT MARKER: PLATE: PIPE: CORRECT INFORMATION: YES

COMMENTS: SEE PAGE TWO FOR CEMENT PLUG INFORMATION.

A CICR was set at 6553' before plugging job commenced. This retainer was stung into and 75 sacks cement was squeezed thru retainer and six sacks left on top.

Three squeeze holes were shot at 5630'. Could not establish injection rate.

A CICR was set at 5568'. Seven sacks cement was squeezed thru retainer and 35 sacks were left on top.

Three squeeze holes were shot at 3510'.

A CICR was set at 3465'. 35 sacks cement were squeezed thru retainer and six sacks were left on top.

Three squeeze holes were shot at 3150'. Could not establish injection rate.

A CICR was set at 3097'. Three sacks cement were squeezed thru retainer and 40 sacks were left on top.

None of the above plugs were tagged.

Surface plug was pumped 55' to surface.

Annulus would not fill until three cement plugs were pumped plus loss circulation material was used. Eventually a 40' plug was pumped to surface.

All cement plugs were class B neat cement, yield 1.17. 4% CACL was used in one of the annulus plugs.