

WATER INSJECTION WELL 6-23-71

FILE NOTATIONS

Entered in NID File
Location Map Pinned
Card Indexed

Checked by Chief *PAB*
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed *6-23-71*
OW..... WW..... TA..... *WF*
GW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log. *6-25-71*
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... M.....
BHC Sonic GR..... Lat..... Mi-L..... S.....
CBLog..... CCLog..... Others.....

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

March 26, 1971

Mr. G. A. Ford
Tenneco Oil Company
Suite 1200, Lincoln Tower Building
Denver, Colorado 80203

Re: Well No. 23, Upper Valley Unit
SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T 36 S, R 2 E,
Garfield County, Utah
Lease Utah 019377

Dear Mr. Ford:

Enclosed is Tenneco's copy of the Application for Permit to Drill the referenced well which was approved by this office on March 26, 1971.

The application did not state what type blowout preventers were to be used. They should be double gate (blind rams and pipe rams) preferably in conjunction with a bag type.

Please arrange to have samples caught from the surface to at least 1000' and provide this office either the samples, a sample description, or a lithologic strip log. If you run directional surveys in the well, please provide the data obtained therefrom for the top 1000' (TOTCO type is acceptable). Also, please arrange to have Gamma Ray-Density with caliper run in at least the top 1000', and send two prints of the logs to us. I understand there is a logging company in Grand Junction (Ruinoco?) which will run a natural gamma, a gamma-gamma density type log, and caliper somewhat less expensively than the major logging companies. These logs would be acceptable.

The preceding would be in addition to the ordinary reports Tenneco submits for an oil and gas test.

Sincerely yours,

Gerald R. Daniels

Gerald R. Daniels,
District Engineer

cc: Utah Division O&G Cons.
BMC, Salt Lake City

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 Bldg - Denver, Colo.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1645' F/WL and 2180' F/NL
 At proposed prod. zone *S W S E N W*

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

10. 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

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
 6900

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7465' 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	3000	Suff to fill 500' above Dakota
7-7/8	5-1/2	15.5	6900	Suff to fill 500' above Kaibab

Well to be drilled to approximately 6900', logged, and if commercial production is indicated, run 5 1/2" casing to T.D. casing will be perforated and formation treated as necessary to establish commercial production. A 2-1/16" parasite string will be run to casing point with the 8-5/8" to aerate returns. If coal is encountered 0'-500', coal bed will be cemented with 1" pipe as per U.S.G.S. instructions.

B.O.P. to be tested each 24 hrs.

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE *3-24-71*
 BY *Paul A. Buehler*

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 *S. A. Zink* TITLE Sr. Production Clerk DATE 3/22/71

(This space for Federal or State office use)

PERMIT NO. *43-017-30030* APPROVAL DATE *In Unit*

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

COMPANY TENNECO OIL COMPANY

Well Name & No. UPPER VALLEY NO. 23

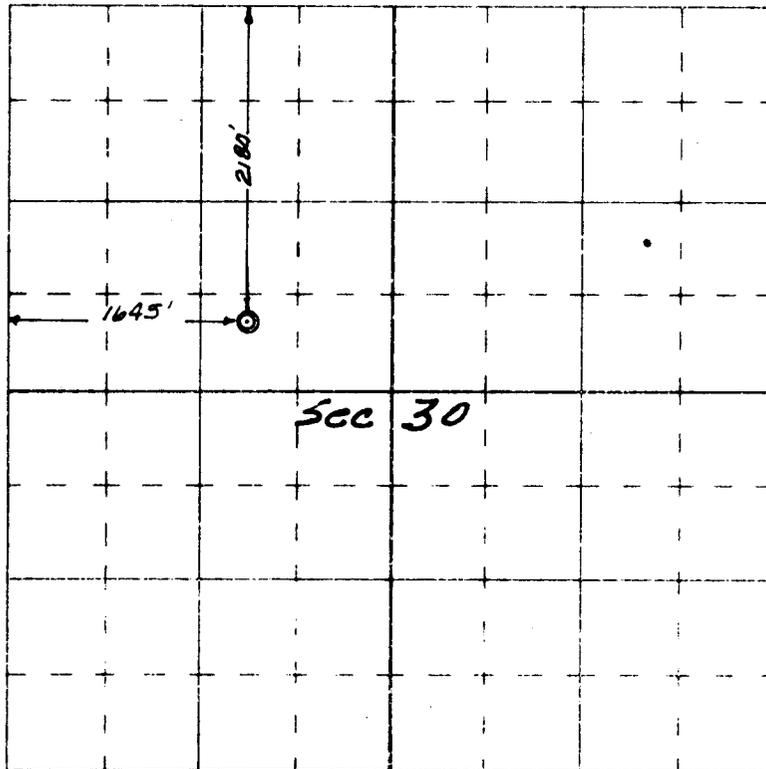
Lease No.

Location 2180 feet from the North line and 1645 feet from the West line

Being in the Southeast of the Northwest

Sec. 30 T 36S R 2E, S. L. M., Garfield County, Utah

Ground Elevation 7465 ungraded



Scale - 4 inches equals 1 mile

Surveyed 2 March

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.



Registered Land Surveyor.
Robert H. Ernst
Colo. Reg. PE & LS No. 4979
New Mexico PE & LS No. 2463

PF
APRIL 14, 1971

T E N N E C O O I L C O M P A N Y

SUITE 1200 LINCOLN TOWER BUILDING
DENVER, COLORADO 80203

This is to advise our operations on Upper Valley Unit Well No. 23 in Section 30, T36S, R2E, Garfield County, Utah, was spudded 1:15 P.M. on April 8, 1971.

Our operations as of twelve midnight on April 13, 1971, was as follows:

Rig was drilling at depth of 2260'.

A F F I D A V I T

This is to certify that to the best of my knowledge the above statement of our operations as of April 13, 1971 is true and correct.

TENNECO OIL COMPANY

D. E. Brown
D. E. Brown
District Drilling Engineer

THE STATE OF COLORADO)
)
CITY AND COUNTY OF DENVER)

BEFORE ME, the undersigned authority, on this day personally appeared D. E. Brown, known to me to be an Agent for Tenneco Oil Company and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 13 day of April, 1971.

Thomas E. Hargis
Notary Public

My commission expires June 17, 1972

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424
U-019379

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		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.		9. WELL NO. 23	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1645' F/WL and 2180' F/NL		10. FIELD AND POOL, OR WILDCAT Upper Valley	
14. PERMIT NO.		11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA Sec. 30, T-36-S, R-2-E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7465' GR		12. COUNTY OR PARISH Garfield	13. STATE Utah

18. 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 checked="" 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) <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.)*

Well spudded 4/8/71 with 13-3/4" hole drilled to 60' and reamed to 24", set 50 ft. of 21" conductor pipe and cemented with 75 sacks, drilled out with 13-3/4" hole to T.D. of 2760 4/16/71. Ran 86 jts. of 8-5/8" 24# casing landed at 2760', cemented with 1100 sacks. Ran 85 jts. of 2-1/16" IJ. tubing parasite string landed at 2690' to aerate returns. Tested B.O.P. and casing to 1000 psi, held ok. Drilled out with 7-7/8" hole and drilling as of 4/20/71 at 3173'.

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

SIGNED [Signature] TITLE Sr. Production Clerk DATE 4/21/71

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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 No. 23 Suite 1200 Lincoln Tower Bldg
Operator Tenneco Oil Company Address Denver, Colo. 80203 Phone 292-9920
220 Midland Savings Bldg
Contractor Loffland Bros Address Denver, Colo. Phone 255-2079
Location SE 1/4 NW 1/4 Sec. 30 T. 36 XXX R. 2 E Garfield County, Utah
S XXXX

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 & 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 3214	Moenkopi 5640
Chinle 5288	Kaibab 6678
Shinarump 5514	

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLE COPY
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R424.

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.

23

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 30, T-36-S, R-2-E

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

2. NAME OF OPERATOR

TENNECO OIL COMPANY

3. ADDRESS OF OPERATOR

Suite 1200 Lincoln Tower Bldg., Denver, Colorado

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

1645' F/WL and 2180' F/NL

14. PERMIT NO.

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

16.

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

NOTICE OF INTENTION TO:

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.)*

Well drilled to T.D. of 6900' on 5/1/71, logged, Ran 220 jts. of 5-1/2" 15.5 K-55 casing landed at 6900', cemented with 135 sacks. Released Rig 5/2/71 and now waiting on completion unit.

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

SIGNED

B. A. Ford

TITLE

Sr. Production *Clerk*

DATE

5/3/71

(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 TRIP DATE
(Other instructions reverse 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

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

Suite 1200 Lincoln Tower Bldg.- Denver, Colorado

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

1645' F/WL and 2180' F/NL

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.

23

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 30, T-36-S, R-2-E

14. PERMIT NO.

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

7465 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)

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 6/16/71. Tested casing and B.O.P. to 1000 psi, held ok, cleaned out to P.B.T.D. of 6892'. Perforated 6872' - 74', 6858' - 60, 6852' - 54', and 6842' - 44' W/2 JSPF, acidized with 8,000 gals of 15% HCL. Perfoated 6784' - 96', 6764' - 68, and 6739' - 44', acidized with 5500 gals of 28% HCL, swabbed, ran 216 Jts. of 2-7/8" tubing landed at 6815', and packer set at 6815'. Well SI 6/23/71 ready for injection.

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

SIGNED

S. A. Ford

TITLE Sr. Production Clerk

DATE 6/23/71

(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 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.

23

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 30, T-36-S, R-2-E

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 Injection

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

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

Suite 1200 Lincoln Tower Bldg. - Denver, Colorado

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

At surface 1645' F/WL and 2180' F/NL

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 4-8-71 16. DATE T.D. REACHED 5-1-71 17. DATE COMPL. (Ready to prod.) 6-23-71 18. ELEVATIONS (DF, REB, BT, GR, ETC.)* 7465 GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6900 21. PLUG, BACK T.D., MD & TVD 6892 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY Rotary 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6678 - 6900 Kaibab 25. WAS DIRECTIONAL SURVEY MADE yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, SNP, GR-DC, BHC 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	2760	13-3/4	1100 sacks	
5-1/2	15.5	6900	7-7/8	135 sacks	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	6815	6815

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6872 - 74, 6858 - 60, 6852 - 54,		6842 - 74	8000 Gals. 15% HCL
6842 - 44 W/2 JSPF and		6739 - 86	5500 Gals. 27% HCL
6784 - 96, 6764 - 68 and 6739 - 44			
W/2 JSPF			

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS

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

SIGNED G.A. Ford TITLE Sr. Production Clerk DATE 6/23/71

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Navajo	3214	5288	sand, water sand, water LS, and dolomite, water NOTE: Well SI 6/23/71 ready for injection. Injection lines not completed.
Shinarump	5784	5918	
Kaibab	6678	TD	

38.

GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Navajo	3214	4262
Chinle	5288	4290
Shinarump	5784	4694
Moenkopi	5918	4560
Kaibab	6678	4800

PF

PK

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
310 NEWHOUSE BUILDING
SALT LAKE CITY 11, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Upper Valley Unit Well #23

Operator Tenneco Oil Company Suite 1200 Lincoln Tower
Address Denver, Colorado Phone 292-9920

Contractor Loffland Bros. 220 Midland Savings Bldg.
Address Denver, Colorado Phone 255-2079

Location: SE 1/4 NW 1/4 Sec. 30 T. 36^N R. 2^E S 1/4^N Garfield County, Utah.

Water Sands:

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

(Continued on reverse side if necessary)

Formation Tops:

Navajo	-	3214'	Moenkopi	-	5918'
Chinle	-	5288'	Kaibab	-	6678'
Shinarump	-	5784'			

Remarks:

NOTE: (a) Upon diminishing supply of forms, please inform the Commission
(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)

9-9-71

August 26, 1971

Tenneco Oil Company
1200 Lincoln Tower Bldg.
Denver, Colorado

Re: Upper Valley Unit #23
Sec. 30, T. 36 S, R. 2 E,
Garfield County, Utah

Gentlemen:

We are in receipt of the "Well Completion or Recompletion Report and Log" for the above referred to well, however, we have not yet received the electric and/or radioactivity logs run on this particular well.

Therefore, it would be appreciated if you would forward said logs at your earliest convenience.

Thank you for your cooperation with regard to the above.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
SUPERVISING STENOGRAPHER

:sd

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42 E1121.
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**

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
1860 Lincoln St., Suite 1200, Denver, Colo. 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1645' FWL and 2180' FNL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
7465' GR

7. UNIT AGREEMENT NAME
Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.
23

10. FIELD AND POOL, OR WILDCAT
Upper Valley

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Sec. 30, T36S, R2E

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)

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.)*

We have acidized this well as follows. Verbal approval of this procedure was given by Mr. Gwynn on 8-8-77 due to our inability to use the acid in Upper Valley 17X due to parted tubing.

1. Moved in and rigged up Dowell.
2. SI water injection.
3. Pumped 2000 gallons of 28% HCL down tubing at 0 psi.
4. Returned well to water injection.
5. No new surface disturbance was caused by this operation.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: August 12, 1977

BY: P. G. Ince

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

SIGNED P. D. Myers

TITLE Div. Production Manager

DATE 8-10-77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

CRA

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
ADDRESS P.O. Box 3249
Englewood, CO ZIP 80155
INDIVIDUAL PARTNERSHIP CORPORATION
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE Upper Valley WELL 23
SEC. 30 TWP. 365 RANGE 2E
Garfield COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL
DISPOSAL WELL

APPLICATION

Comes now the applicant and shows the Division the following:

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

Lease Name <u>Upper Valley</u>	Well No. <u>23</u>	Field <u>Upper Valley</u>	County <u>Garfield</u>
Location of Enhanced Recovery Injection or Disposal Well <u>SE NW</u> Sec. <u>30</u> Twp. <u>365</u> Rge. <u>2E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted, existing injector 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) and Depth of Source(s) <u>Kaibab 6000-6900'</u>		
Geologic Name of Injection Zone <u>Kaibab</u>	Depth of Injection Interval <u>6739</u> to <u>6874</u>		
a. Top of the Perforated Interval: <u>6739</u>	b. Base of Fresh Water: <u>4500</u>	c. Intervening Thickness (a minus b) <u>2239</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

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 _____

Notary Public and for the State of Colorado
Linda Hancock

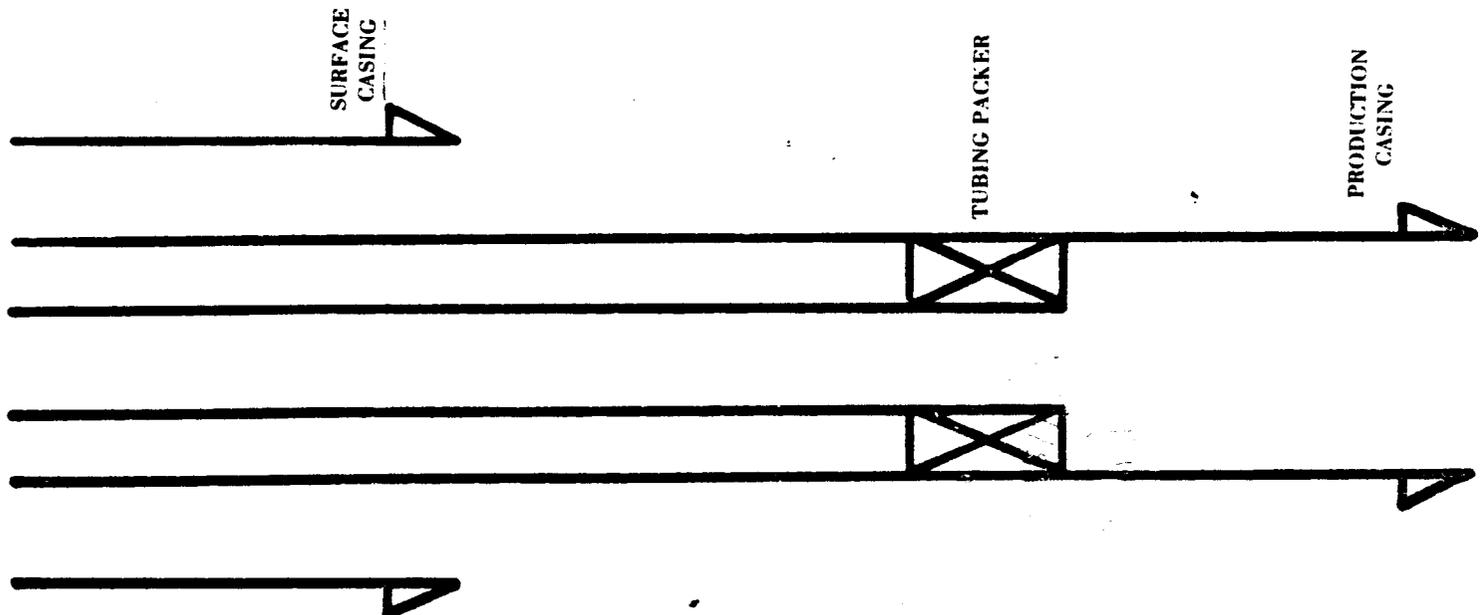
(OVER) 6884 S. Prescott St.
Littleton, CO 80120

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"	2760	950	surface	returns
Intermediate					
Production	5 1/2"	6900	135	5950'	CBL
Tubing	2 7/8"	6634	Name - Type - Depth of Tubing Packer BAKER LOK-SET @ 6634		
Total Depth 6900	Geologic Name - Inj. Zone Kaibab	Depth - Top of Inj. Interval 6739	Depth - Base of Inj. Interval 6874		

SKETCH - SUB-SURFACE FACILITY



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

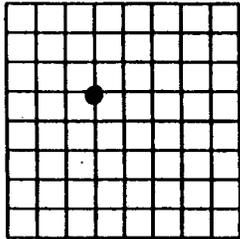
DEPARTMENT OF NATURAL RESOURCES AND ENERGY

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

COUNTY LEASE NO.

API NO

840 Acres
N



COUNTY Garfield SEC. 30 TWP. 365 RGE. 2E
COMPANY OPERATING TENNECO
OFFICE ADDRESS P. O. Box 3249
TOWN Englewood STATE ZIP CO 80155
LEASE NAME Upper Valley WELL NO. 23
DRILLING STARTED 4 19 71 DRILLING FINISHED 6 19 71
DATE OF FIRST PRODUCTION _____ COMPLETED _____
WELL LOCATED SE $\frac{1}{4}$ NW $\frac{1}{4}$ _____
_____ FT. FROM SL OF $\frac{1}{4}$ SEC. & _____ FT. FROM WL OF $\frac{1}{4}$ SEC.
ELEVATION DERRICK FLOOR 7413 GROUND 7400

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

Name	From	To	Name	From	To
Kaibab	6739	6874			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
8 5/8	24	K-55	2760		950		
5 1/2	15.5	K-55	6900		135		

TOTAL DEPTH 6900

PACKERS SET DEPTH 6634'

FORMATION	1	2	3
FORMATION	Kaibab		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	inj. well		
PERFORATED	6739-6768		
	6784-6796		
INTERVALS	6842-6874		
ACIDIZED?	yes		
	no		
FRACTURE TREATED?			

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

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

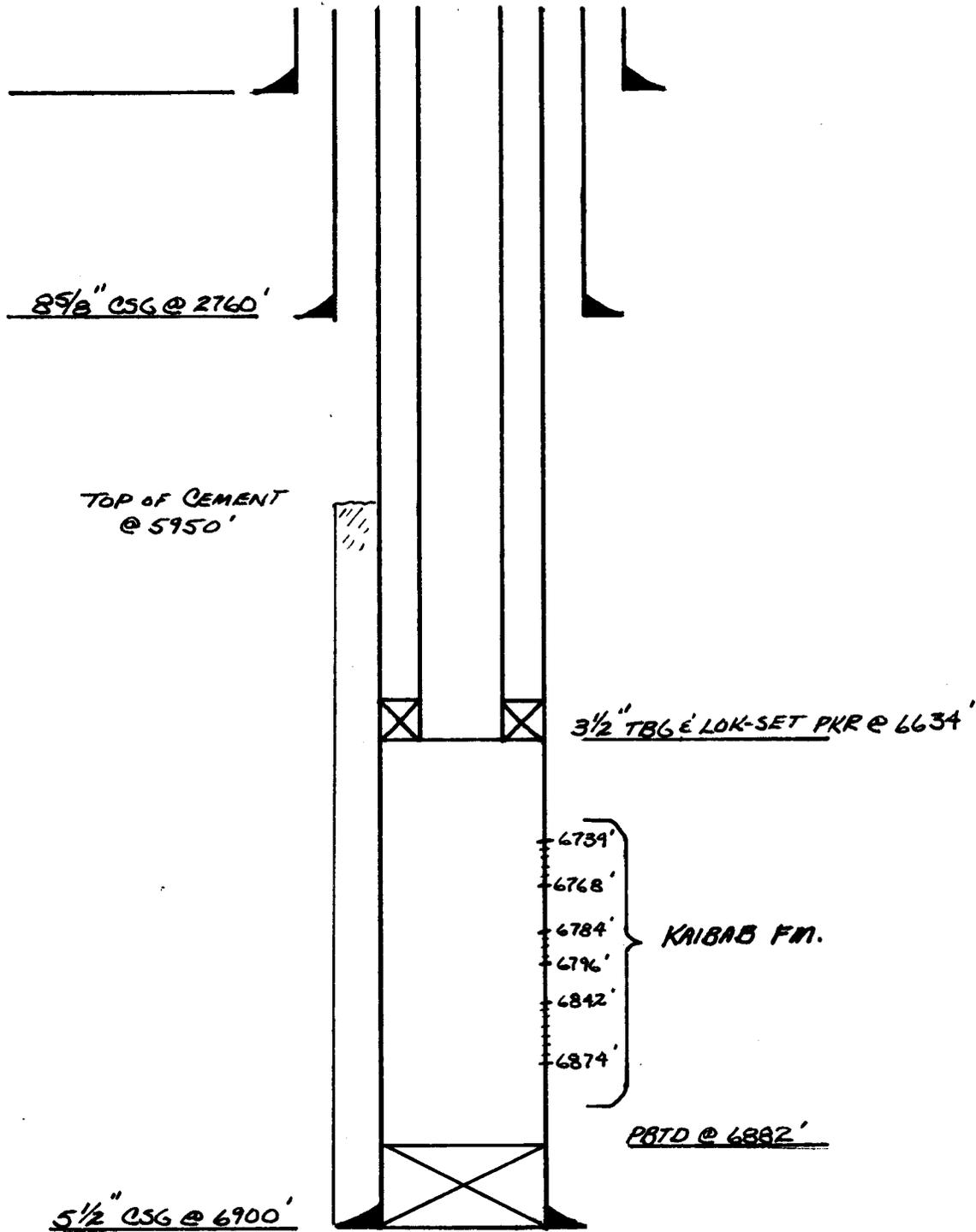
Subscribed and sworn before me this 13th day of October, 19 83

My Commission Expires Sept. 7, 1987

Linda Hancock
Linda Hancock

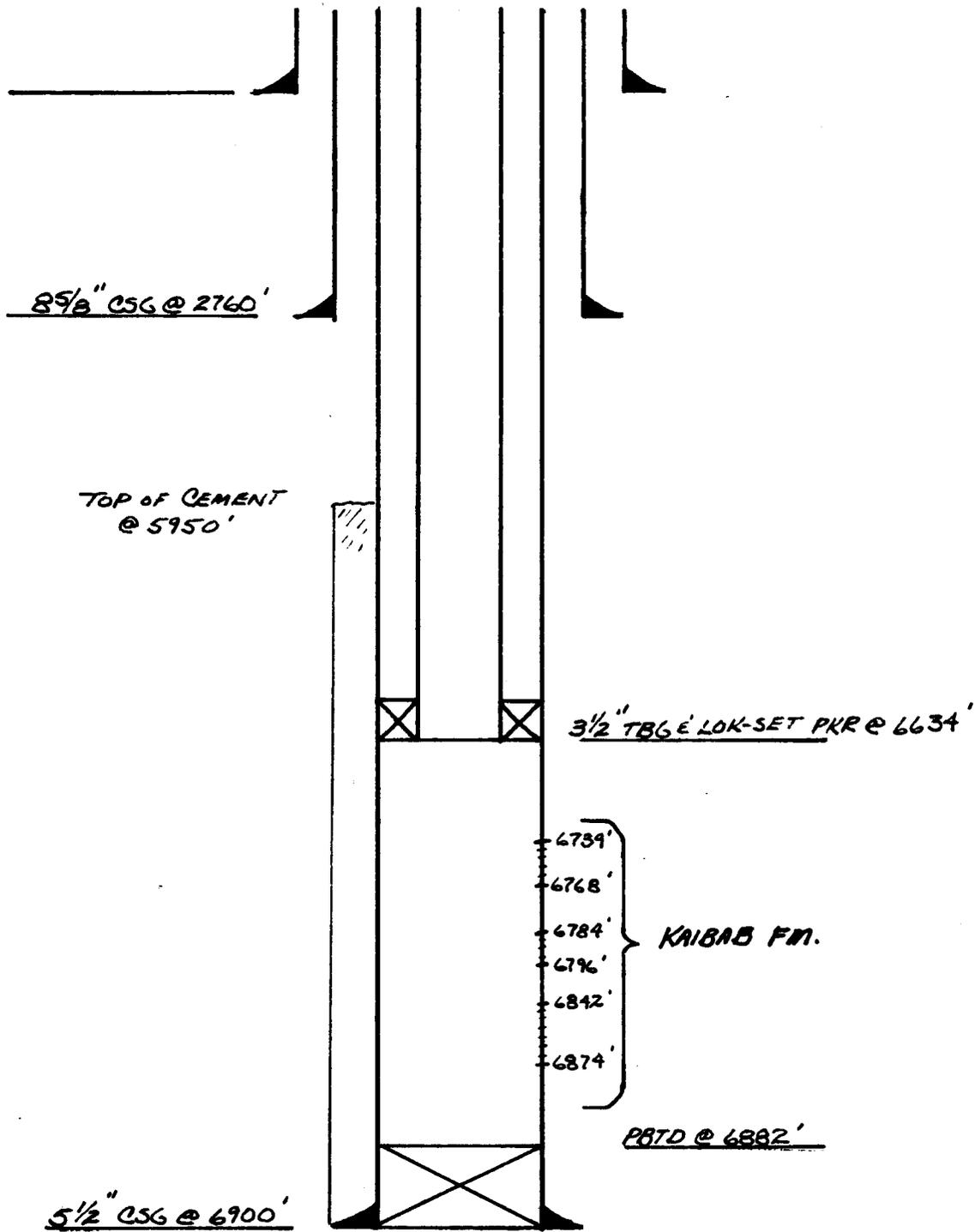
6884 S. Prescott St.
LITTLETON, CO 80120

TENNECO OIL COMPANY
UPPER VALLEY UNIT WELL NO. 23
WELLBORE SCHEMATIC
GARFIELD CO., UTAH



NOTE: NOT TO SCALE

TENNECO OIL COMPANY
UPPER VALLEY UNIT WELL NO. 23
WELLBORE SCHEMATIC
GARFIELD CO., UTAH



NOTE: NOT TO SCALE

A

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.

UIC RULE 1-5b
UPPER VALLEY UNIT

ITEM NO.

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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

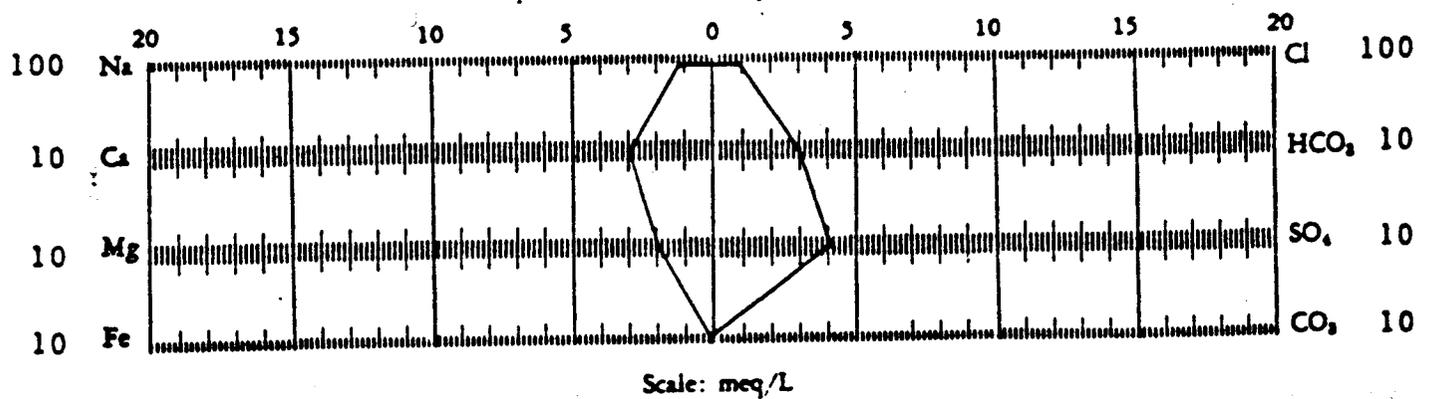
Page 5 of 8
 File IWT1-71107

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>Mg/L</u>
<u>Actual Plugging Solids</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

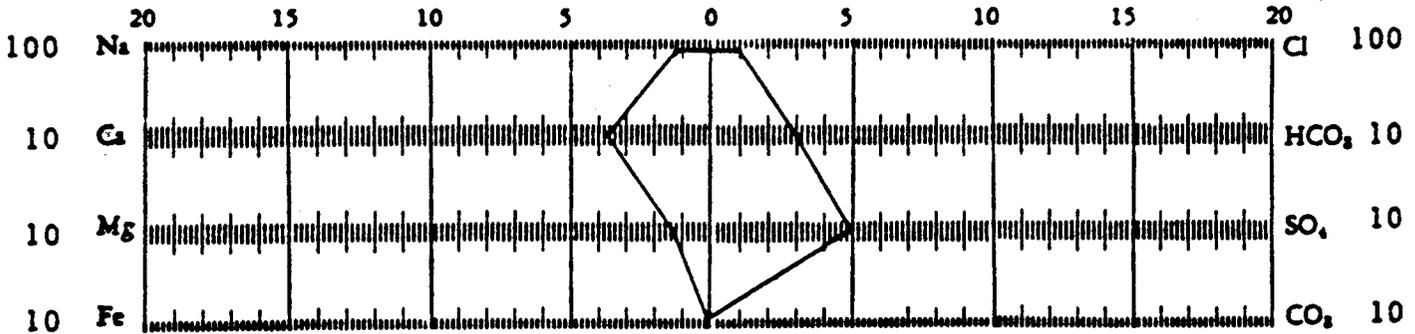
Page 2 of 8
 File IWTL-71107

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.



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

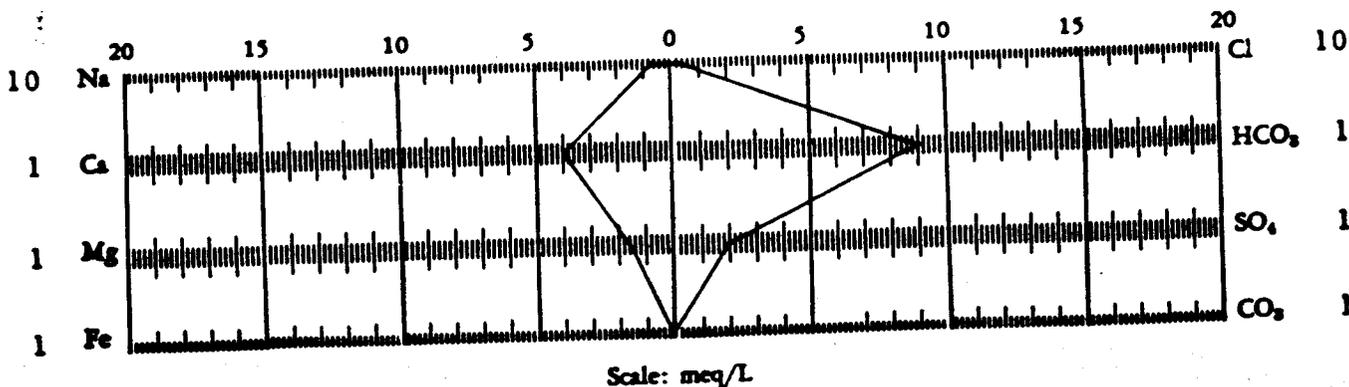
Specific Gravity 1.0027 @ 60 °F.

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.

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

OPERATOR: Tenneco Oil Exploration & Production Co.

FIELD: Upper Valley ^{County} ~~Blaine~~ Garfield

WELL # 23 SEC. 30 TOWNSHIP 36S RANGE 1E

STATE FED. FEE DEPTH 6900" TYPE WELL IND W MAX. INJ. PRESS. 3000

TEST DATE 3/21/84

CASING STRING	SIZE	SET AT	CMT Sticks	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>8 5/8"</u>	<u>2760'</u>	<u>950</u>	<u>0</u>	<u>No Vacuum</u>	
<u>INTERMEDIATE</u>	<u>0</u>					
<u>PRODUCTION</u>	<u>5 1/2"</u>	<u>6900"</u>	<u>135</u>			
<u>TUBING</u>	<u>2 7/8"</u>	<u>6634</u>	<u>Packer</u>	<u>300 PSI = AT Well Head</u>	<u>New Packer Recently Installed</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: Jenneco Well No. Upper Valley Unit #23
 County: Harfield T 365 R 1E Sec. 30 API# 43-017-30030
 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>Kaitat</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>Navajo</u>	Depth <u>4500</u>
Number of wells in area of review	<u>1</u> Prod. <u>1</u> P&A <u>0</u>	Water <u>0</u> Inj. <u>0</u>
Aquifer Exemption	Yes _____ NA <u>✓</u>	
Mechanical Integrity Test	Yes <u>✓</u> No _____	
	Date <u>3-21-86</u> Type <u>Bradenford</u>	

Comments: TOC: 5950

Reviewed by: CRJ

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 9/24/86
WELL TYPE: DISPOSAL _____ ENHANCED RECOVERY OTHER _____
WELL NAME: # 23 UPPER Valley API NO. 43-017-30030 LEASE NO. U-019379
SECTION 30 TOWNSHIP 36S RANGE 2 E COUNTY Garfield
SURFACE CASING 8 5/8 @ 2760' WITH 950 SX CEMENT
INTERMEDIATE CASING _____ @ _____ WITH _____ CEMENT
PRODUCTION CASING 5 1/2 @ 6900' WITH 135 SX CEMENT
TUBING 2 7/8 @ 6634
PACKER SET @ 6634 TYPE Lok-Set MODEL Baker

CONDITIONS DURING TEST:

TUBING PRESSURE: VACUUM psig.
CASING/TUBING ANNULUS PRESSURE 300 psig. for 15 minutes
CHANGE DURING TEST 300 → 300 over 15 minutes

CONDITIONS AFTER TEST:

TUBING PRESSURE: Vacuum psig.
CASING/TUBING ANNULUS PRESSURE: 0 psig.

COMMENTS: 6000 BWPD/300 PSI

Dorothy Swindel
WITNESS

[Signature]
WITNESS

Operator Change

SEE INSTRUCTIONS (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.)

RECEIVED FEB 01 1988

3. LEASE DESIGNATION AND SERIAL NO. varies

6. IF INDIAN, ALLOTTEE OR TRIBE NAME 020910

7. UNIT AGREEMENT NAME Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT Upper Valley - Kaibab

11. SEC., T., R., M., OR BLM. AND SURVST OR ABBA Townships 36S, 37S; Range 1E

12. COUNTY OR PARISH Garfield 13. STATE Utah

1. OIL WELL [X] GAS WELL [] OTHER []

2. NAME OF OPERATOR Tenneco Oil Company No 950

3. ADDRESS OF OPERATOR P.O. Box 3249 Englewood, CO 80155 DIVISION OF OIL, GAS & MINING

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

14. PERMIT NO.

15. ELEVATIONS (Show whether OP, ST, GR, etc.)

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF []

PULL OR ALTER CASING []

WATER SHUT-OFF []

REPAIRING WELL []

FRACTURE TREAT []

MULTIPLE COMPLETE []

FRACTURE TREATMENT []

ALTERING CASING []

SHOOT OR ACIDIZE []

ABANDON* []

SMOOTHING OR ACIDIZING []

ABANDONMENT* []

REPAIR WELL []

CHANGE PLANS []

(Other) Sale of unit

(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.

No 265

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

SIGNED Steve Kelen 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

RECEIVED
FEB 01 1988

UPPER VALLEY UNIT

DIVISION OF
OIL, GAS & MINING

Upper Valley #1	SE/4NE/4	Sec. 11, T-36-S, R-1-E	Water Injection	43-017-11221 ✓
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 ✓
WW 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 ✓
WW 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 ✓
WW 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 ✓
POW/KBAB				
WW 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 ✓
WW Upper Valley #23	SE/NW	Sec. 30, T-36-S, R-2-E		43-017-30030 ✓
WW Upper Valley #24	NE/NE	Sec. 23, T-36-S, R-1-E		43-017-30041 ✓
WW Upper Valley #25	SW/SE	Sec. 36, T-36-S, R-1-E		43-017-30033 ✓

RECEIVED
FEB 01 1988

UPPER VALLEY UNIT (Continued)

DIVISION OF
OIL, GAS & MINING

<i>W</i> 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> ✓
<i>W</i> Upper Valley #33	NW/NE	Sec. 36, T-36-S, R-1-E	<u>43-017-30047</u> ✓
<i>W</i> Upper Valley #34	SW/NE	Sec. 13, T-36-S, R-1-E	<u>43-017-30065</u> ✓
<i>W</i> 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~~
Pressure Test

Operator: CITATION OIL AND GAS Field/Unit: UPPER VALLEY
 Well: #23 Township: 36S Range: 02E Sect: 30
 API: 43-017-30030 Welltype: INJW Max Pressure: 300
 Lease type: FEDERAL Surface Owner: FOREST
 Test Date: 9/16/91

CASING STRING	SIZE	SET AT	PRESSURE	OBSERVATIONS
---------------	------	--------	----------	--------------

Surface:	8 5/8	2760		<i>2:55 PM</i>
Intermediate:		0		<i>Pressured to 340 PSI</i>
Production:	5 1/2	6900		<i>NO bleed off in 15 min</i>
Other:		0		<i>PASSED MIT</i>
Tubing:	2 7/8			
Packer:		6634		
Recommendations:				<i>D. James 9/16/91</i>



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,

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
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>43-017-30630</u>	Well Name/Number: <u>#23</u>
Section: <u>30</u>	Township: <u>26S</u> Range: <u>2E</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	_____	_____
5	<u>320</u>	_____
10	<u>320</u>	_____
15	<u>320</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: VAC psi

Casing/Tubing Annulus Pressure: 0 psi

REMARKS:

Passed MIT

Operator Representative

P. Janni
DOG M 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.

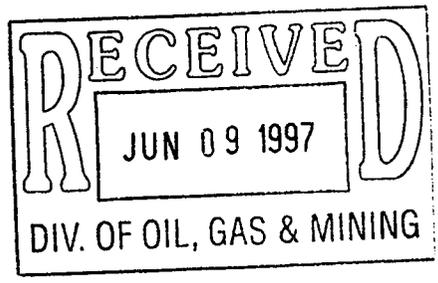
1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: Injection Wells		5. Lease Designation and Serial Number:
2. Name of Operator: Citation Oil & Gas Corp.		6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: 8223 Willow Place South, Suite 250, Houston, Texas 77070-5623 (281) 469-9664		7. Unit Agreement Name: Upper Valley Unit
4. Location of Well Footages: Various 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		8. Well Name and Number: Various
		9. API Well Number: Various 43-017-30030
		10. Field and Pool, or Wildcat: Upper Valley
		County: Garfield 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 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
<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	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: 6-16-97
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 #43-017-22100- 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>UV #23</u>	API Number: <u>43-019-30030</u> ⁰¹⁷
Qtr/Qtr: <u>SE NW</u> Section: <u>30</u>	Township: <u>36S</u> Range: <u>2E</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>300</u>	_____
10	<u>300</u>	_____
15	_____	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: Passed MIT (5 year)

[Signature]
Operator Representative

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

U 019377

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Upper Valley Unit

8. Well Name and Number:

Upper Valley Unit # 23

9. API Well Number:

43-017-30030

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: **Water 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: ^{1645'} ~~1465'~~ **FWL & 2180' FNL**

QQ, Sec., T., R., M.: **SE NW SEC. 30-36S-2E**

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: ICAD

(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

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:
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:
43-017-30030

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

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-30 T 36S R 09E**

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 sequestrating 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.

- API #
- 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

COPIES SENT TO OPERATOR
Date: 10-29-04
Initials: CHD

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

(This space for State use only)
(12/92) **APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING**
DATE: 10/27/04
BY: [Signature]

(See Instructions on Reverse Side)

Federal Approval Of This Action Is Necessary

RECEIVED
OCT 26 2004
DIV. OF OIL, GAS & MINING

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:

CQ, 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)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|--|--|
| <input type="checkbox"/> Abandonment* | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input checked="" type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <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.

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

-T365 ROQE 5-30 43-019-30030

RECEIVED

JAN 11 2005

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
U 019377

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME:
Upper Valley 8910081780

1. TYPE OF WELL
OIL WELL GAS WELL OTHER Water Injection Well

8. WELL NAME and NUMBER:
Upper Valley Unit 23

2. NAME OF OPERATOR:
Citation Oil & Gas Corp.

9. API NUMBER:
4301730030

3. ADDRESS OF OPERATOR:
P.O. Box 690688 CITY **Houston** STATE **TX** ZIP **77269-0688** PHONE NUMBER: **(281) 517-7194**

10. FIELD AND POOL, OR WILDCAT:
Upper Valley Kaibab

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **2180' FNL & 1465' FWL**

COUNTY: **Garfield**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 30 36S 2E**

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 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: 10/24/2006	<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 checked="" type="checkbox"/> OTHER: <u>Mechanical Integrity</u>
	<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.

This well was tested for mechanical integrity on 10/24/2006. A copy of DOGM Inspection Form 6 is attached for your review.

NAME (PLEASE PRINT) Debra Harris
SIGNATURE *Debra Harris*

TITLE Regulatory Compliance Coordinator
DATE 11/14/2006

(This space for State use only)

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NOV 17 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>UPPER VALLEY UNIT # 23</u>	API Number: <u>43017300300000</u>
Qtr/Qtr: <u>SE 1/4</u> Section: <u>30</u>	Township: <u>36S</u> Range: <u>2E</u>
Company Name: <u>CITATION</u>	<u>SLAM</u>
Lease: State <u>71-019378</u> Fee _____ Federal _____ Indian _____	
Inspector: <u>T. SMITH</u>	Date: <u>10/24/06</u> <u>V/A</u>

Initial Conditions:

Tubing - Rate: 4245 BBL/DY Pressure: 170 psi

Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	_____	_____
5	_____	_____
10	_____	_____
15	<u>360 1 BBL ABOVE</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: ACTIVE INJECTION WELL 1 BBL PRODUCTION WATER USED

Glen C. Wilson
Operator Representative

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>UPPER VALLEY UNIT 23[#]</u>	API Number: <u>43017306300000</u>
Qtr/Qtr: <u>SE 44</u> Section: <u>30</u>	Township: <u>36S</u> Range: <u>2E</u>
Company Name: <u>CITATION</u>	<u>SLAM</u>
<u>71-019378</u>	
Lease: State _____ Fee _____	Federal _____ Indian _____
Inspector: <u>T. SMITH</u>	Date: <u>10/24/06</u>

Initial Conditions:

Tubing - Rate: 4245 BBLs/DY Pressure: 140 psi

Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	_____	_____
5	_____	_____
10	_____	_____
15	<u>360 1 BBL ABOVE</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: ACTIVE INJECTION WELL / BAL PRODUCTION WATER USED

[Signature]
Operator Representative

PRINTED IN U.S.A.

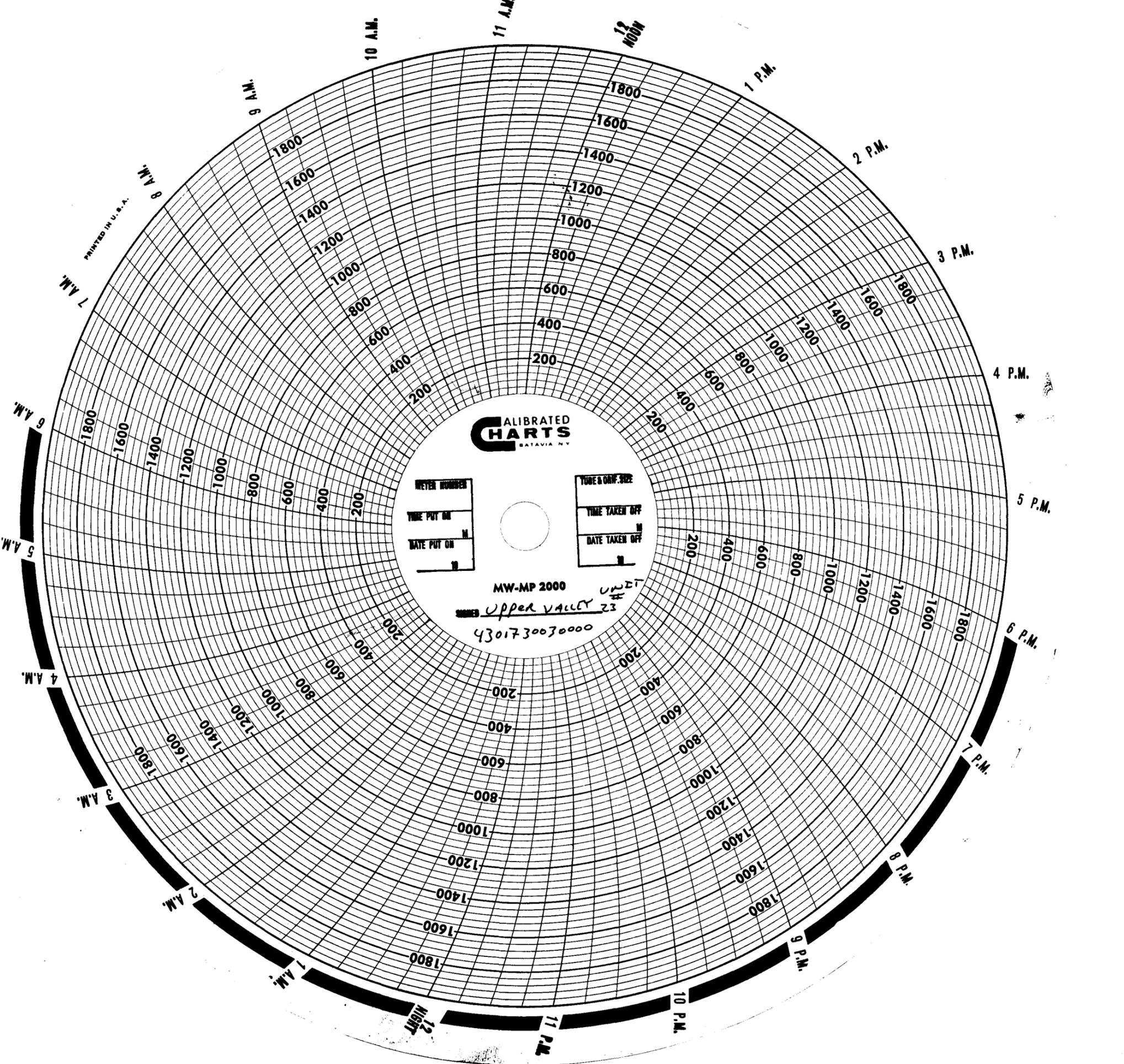
**CALIBRATED
CHARTS**
BATAVIA, N.Y.

METER NUMBER
TIME PUT ON
DATE PUT ON

TUBE & ORIF. SIZE
TIME TAKEN OFF
DATE TAKEN OFF

MW-MP 2000

Upper Valley 23 UNIT #21
4301730030000



PRINTED IN U.S.A.

CALIBRATED
CHARTS
BATAVIA N.Y.

UVU #23

METER NUMBER

4301730030

TIME PUT ON

11:19

DATE PUT ON

10/17/70

TUBE & ORIF. SIZE

26S 20E 30

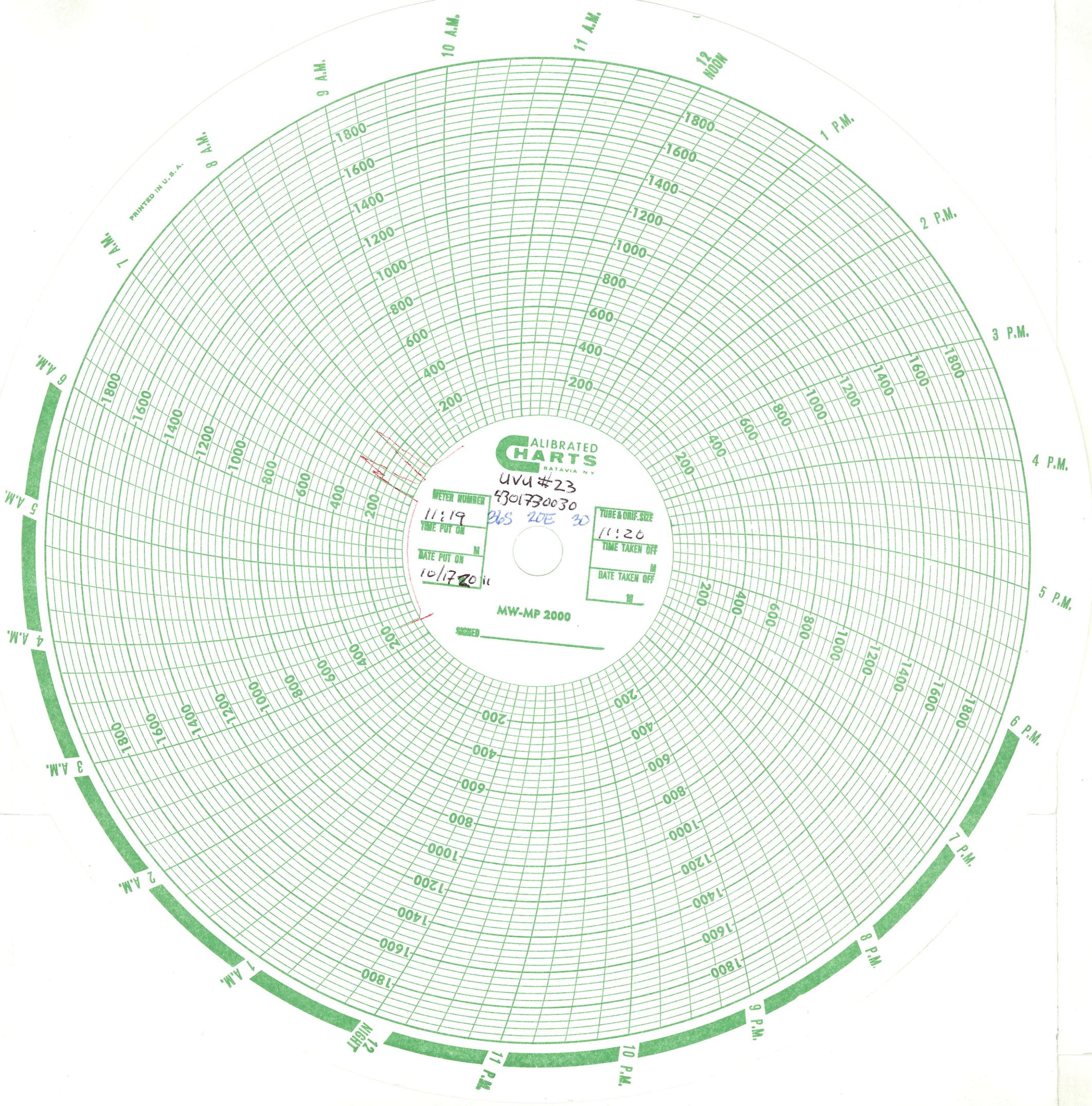
TIME TAKEN OFF

11:20

DATE TAKEN OFF

MW-MP 2000

SIGNED



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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
U 019377

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME:
Upper Valley 8910081780

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Upper Valley Unit 23

2. NAME OF OPERATOR:
Citation Oil & Gas Corp.

9. API NUMBER:
4301730030

3. ADDRESS OF OPERATOR:
P O Box 690688 CITY **Houston** STATE **TX** ZIP **77269I**

PHONE NUMBER:
(281) 891-1000

10. FIELD AND POOL, OR WILDCAT:
Upper Valley Kaibab

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **2180 FNL & 1465 FWL**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 30 36S 2E**

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: _____ <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 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 requests authorization to repair a hole in casing, MIT and return this well to production per the attached procedure.

**Approved by the
Utah Division of
Oil, Gas and Mining**

COPY SENT TO OPERATOR

Date: 2-2-2012

Initials: KS

Date: 01-19-12
By: [Signature]

NAME (PLEASE PRINT) Mary Torres

SIGNATURE [Signature]

TITLE Permitting Analyst

DATE 12/12/2011

(This space for State use only)

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DEC 20 2011

DIV. OF OIL, GAS & MINING

UVU No. 23

Workover Procedure

Objective: Repair suspected casing leak, MIT and return well to injection

- 5-1/2" 15.5# J-55 Casing 4.95" ID, 4.825" Drift ID, and 0.0238 BBL/ft capacity.
 - Move in 2-7/8" 6.5# J-55 workstring
 - Move in mud pump and steel pit. Fill steel pit with produced water.
- 1) MIRU PU. NDWH. NU 3M BOP's.
 - 2) Release PKR and TOOH with 3-1/2" 9.3# J-55 8rd Duolined tubing and Baker Lok-set packer, standing back. Perform visual inspection of tubing.
 - 3) PU & TIH with 4-5/8" Bit & Scraper on 2-7/8" 6.5# WS to PBTD at 6882' FS. POOH w/ B&S.
 - 4) PU & RIH w/ RBP & PKR for 5-1/2" 15.5# K-55 casing. Set RBP @ 4600' FS. POOH w/ (1) stand and set PKR above RBP. Test RBP to 1000 psi. (Navajo formation is located from 3214' to 4455' FS)
 - 5) Use RBP & PKR to isolate leak. Find casing leak location and establish injection rate and pressure.
 - Report results to Armando Lopez at 281-891-1484 (office) or 281-387-0311 (cell).
 - 6) Rise PKR & RIH to release RBP. PUH and set RBP 100' below casing leak and test to 1000 psi. Dump 2 sacks of sand on top. PUH and set PKR 200' above casing leak. Load BS with produced water.
 - 7) MIRU Cement Company. Mix and cement squeeze as recommended. At the end of squeeze, release packer and PUH (2) stands, establish reverse circulation and watch for cement returns, set PKR and pressure squeeze to 1000 psi. Hold pressure for 10 minutes and bleed off. WOC overnight.
 - 8) RDMO Cement Company. Release & POOH with PKR.
 - 9) RU Power Swivel. PU & RIH with 5-3/4" Bit, (4) 4-3/4" DCs on 2-7/8" WS. Drill out cement. Clean out sand on top of RBP & CHC. POOH w/ Bit & DCs. RD Power Swivel.
 - 10) PU & RIH with PKR. Set PKR at 3100' FS (Navajo Formation top @ 3214' FS).
 - 11) Pressure test casing squeeze and backside to 1000 psi.
 - 12) Rise & POOH with PKR. PU & RIH with overshot to rise RBP. POOH LD RBP & 2-7/8" WS.
 - 13) RIH with injection tubing (3-1/2" 9.3# J-55 8rd Duolined tubing and Baker Lok-set packer) and set injection PKR at 6654' FS. Load BS and pressure test to 1000 psi.
 - 14) RDPU. NUWH. Connect well to injection line.
 - 15) Coordinate MIT with State and BLM.
 - 16) Wait on State and BLM final approval letter to return well to injection.