FILE NOTATIONS

Entered in NID File ....✓.... Checked by Chief P.W.B.
Location Map Pinned ....✓.... Approval Letter 12-22-71
Card Indexed ....✓.... Disapproval Letter .....

COMPLETION DATA:

Date Well Completed ..... Location Inspected

OW..... WW..... TA..... Bond released

GW..... OS..... PA..... State or Fee La

Changes card to Blue

LOGS FILED

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro .....

BHC Sonic GR..... Lat..... Mi-L..... Sonic.....

CBLog..... CCLog..... Others.....

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U - 013738

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Upper Valley Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 33

2. NAME OF OPERATOR: Tenneco Oil Company

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

10. FIELD AND POOL, OR WILDCAT: Upper Valley

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 160' F/NL and 1950' F/El

At proposed prod. zone: NE¼NW¼

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 36, T-36-S, R-I-E

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

12. COUNTY OR PARISH: Garfield | 13. STATE: Utah

15. 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: 7400

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 7460 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
15"	9-5/8	36#	3000	Suff. to fill 500' above Dakota
8-3/4"-	7	20,23,26	7400	Suff. to fill 500' above Kaibab

Set and cement to surface 40' of 22" culvert pipe for conductor. Drill well to approximate T.D. of 7400', log, run 7" casing to T.D. casing well be perforated and formation treated as necessary to establish commercial production. If coal is encountered 0' - 500' it will be cemented with 1" pipe as per U.S.G.S. instructions. A 15" hole will be drilled to 3000' and of warrented by lost circulation. hole will be reamed to 18" and set 16" casing as required. A 2-1/16" parasite string will be run on outside of surface pipe to aerate returns. B.O.P. to be tested each 24 hours.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 12-23-71

BY CB Feight

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. Ford TITLE Sr. Production Clerk DATE 12-20-71

(This space for Federal or State office use)

PERMIT NO. 43-017-30071 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

COMPANY TENNECO OIL COMPANY

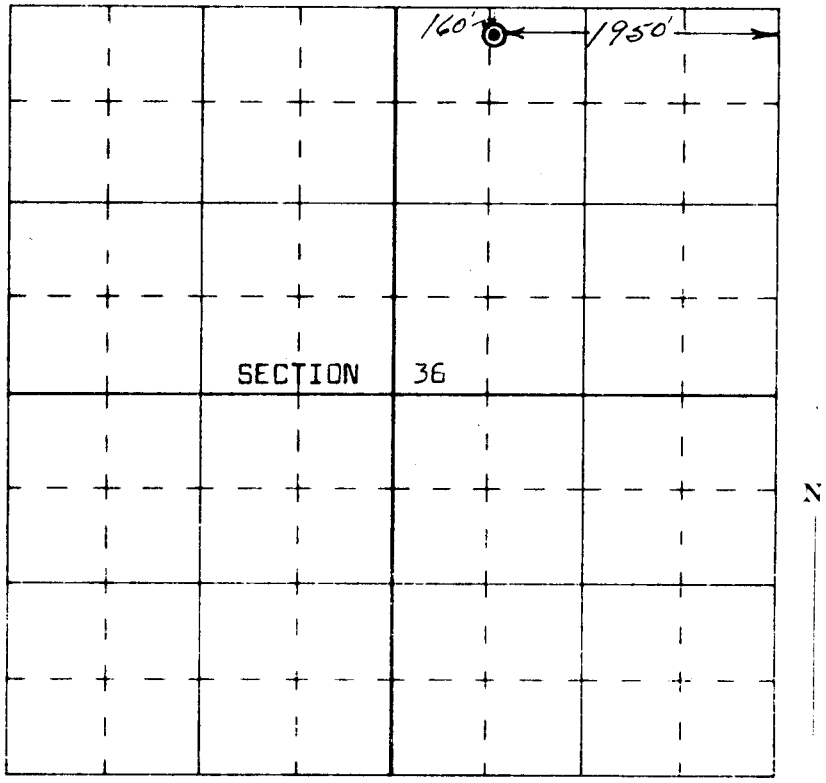
Well Name & No. UPPER VALLEY NO. 33 Lease No.

Location 160 Feet from the North Line and 1950 Feet from the East Line

Being in NW NE

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

Ground Elevation 7460' ungraded



Scale — 4 inches equals 1 mile

Surveyed 14 December , 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.

ROBERT H. ERNST REGISTERED 4979 P.E.&L.S. STATE OF COLORADO

Registered Land Surveyor.

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

Ernst Engineering Co.
Durango, Colorado

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42 R1424.

5. LEASE DESIGNATION AND SERIAL NO.: U-013738

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 [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Upper Valley Unit

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME:

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

9. WELL NO.: 33

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 160' F/NL and 1950' F/EL

10. FIELD AND POOL, OR WILDCAT: Upper VAlley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 36, T-36-S, R-1-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7460 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:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[X]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Set and cemented 40' of 21" culvert pipe as conductor, well spudded 2/5/72 with 15" hole and drilled to T. D. of 3024' on 2/10/72. Ran 93 Jts. of 9-5/8" 36# casing landed at 3024; cemented with 850 sacks. Ran 2-1/16" tubing on outside of 9-5/8" casing to aerate returns, tubing landed at 2956. Tested B.O.P. and casing to 1000 psi, held OK. Drilled out with 8-3/4" hole and drilling at 5614' as of 2/14/72.

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

SIGNED [signature] TITLE Sr. Production Clerk DATE 2-14-72

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: 019378

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 [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Upper Valley Unit

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME:

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

9. WELL NO.: 33

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 160' F/NL and 1950' F/EL

10. FIELD AND POOL, OR WILDCAT: Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 36, T-36-S, R-1-E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7460 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:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[X]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Drilled with 8-3/4" hole to T.D. of 7128' on 2/19/72, logged, ran 219 JTS. of 7" 20#, 23# and 26# casing landed at 7128', cemented with 125 sacks. Released rig 2/20/72. Now waiting on completion rig.

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

SIGNED D. A. Ford TITLE Sr. Production Clerk DATE 2-23-72

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instruction reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: 109378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME: Upper Valley Unit

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME:

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

9. WELL NO.: 33

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 160' F/NL and 1950' F/EL

10. FIELD AND POOL, OR WILDCAT: Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 36, T-36-S, R-1-E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7460 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:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[X]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

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

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

Moved in completion unit 3-2-72, tested casing and B.O.P. to 1000 psi, cleaned out to P.B.T.D. of 7112' Held OK.

Perforated 7073' - 7100' w/27 holes, acidized 500 gals. 15% HCL, PERFORATED 7039' - 41 (4 holes), 7031' - 35' (4 holes) 7020' - 24' (2 holes) 7006' - 08' (2 holes), 6996' - 7000' (4 holes) 6987' - 91' (4 holes), 6965, 6944' & 6936 w/1 hole each, acidized 6936' - 7041' with 6000 gals. 28% HCL in 3 equal stages, swabbed, ran 217 Jts. of 2-7/8" tubing with Reda Pump landed at 6916'. Well tested 24 hrs. 392 B.O.P.D. and 2738 BBls. water.

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

SIGNED G. A. Fox TITLE Sr. Production Clerk DATE 3-20-72

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (Other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 019378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Upper Valley Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 33

10. FIELD AND POOL, OR WILDCAT: Upper Valley

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 36, T-36-S, R-1-E

12. COUNTY OR PARISH: Garfield

13. STATE: Utah

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

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

2. NAME OF OPERATOR: 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: 160' F/NL and 1950' F/EL
At top prod. interval reported below:
At total depth:

14. PERMIT NO.: 43-017-30047 | DATE ISSUED: 12-23-71

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-5-72	2-19-72	3-5-72	7460 GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7128	7112		→	0-7128	----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Kaibab 6936 - 7100

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: SWN, CDLC, DIFL, BHC-AL

27. WAS WELL CORED: Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36	3024	15	850 sacks	
7"	20,23, & 26	7128	8-3/4	125 sacks	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	6916	None

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

7073 - 7100, 27 holes
7039 - 7041 (4) 7031-35 (4), 7020-24 (2)
7006 - 7008 (2) 6996-700 (4) 6987-91 (4)
6965, 6944, 6936 (1each)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7073 - 7100	500 Gals. 15% HCL
6936 - 7041	6000 Gals. 28% HCL
	In 3 equal stages
	550# unibeads (150 & 400)

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
3-5-72	Pumping - Reda	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-17-72	24	None	→	392	TSTM	2738	TSTM

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
----	----	→	392	TSTM	2738	26°

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

TEST WITNESSED BY: Haynes Woosley

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 3-20-72

*(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	3299	5502	Sandstone - water productive by log
Kaibab	6925	7128	Dolomite - oil productive by test
Cored Interual			
Kaibab	7078	7127	Dolomite - bleeding oil

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Navajo	3299	
Chinle	5502	
Shinarump	6027	
Moenkopi	6178	
Kaibab	6925	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497

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

March 20, 1972

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Upper Valley #33

Operator Tenneco Oil Company **Address** Suite 1200 Lincoln Tower Bldg. Denver, Colorado 80203 **Phone** 292-9920

Contractor Loffland Bros. Company **Address** P. O. Box 688 Farmington, New Mexico **Phone** 325-5001

Location NW ¼ NE ¼ **Sec.** 36 **T.** 36 ~~N~~ S **R.** 1 ~~E~~ W Garfield **County, Utah**

Water Sands:

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

(Continue on reverse side if necessary)

Formation Tops:

Navajo	3299
Chinle	5502
Schinarump	6027
Meonkopi	6178
Kaibab	6925

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.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

5. LEASE DESIGNATION AND SERIAL NO.: U-019378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Upper Valley Unit

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME:

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

9. WELL NO.: 33

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 160 FNL & 1950 FEL

10. FIELD AND POOL, OR WILDCAT: Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 36, T36S, R1E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7460 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:				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	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

6/29/74 - Acidized w/K-4, 1500 GAL, 15%, followed w/4700# Dwell J-279 Polymer in 4840 13W. Flushed w/160 13 BLS Lease crude.

Before: 60 BOPD, 3100 BWPD

After: 120 BOPD, 2900 BWPD

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

SIGNED [signature] TITLE Senior Production Clerk DATE November 1, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NALCO

REPORT OF WATER ANALYSIS

Company TENNECO OIL COMPANY
ESCALANTE, UTAH
DIST. 15

Date 18-Feb-76
Analysis No. 76V242,U
Sampling Date 2-3-76
Date Sample Rec'd. 2-11-76

Sample Marked TENNECO #33 Upper Valley Unit Kaibab Formation
NW, NE, Sec. 36 T 36S, R 1E

DISSOLVED SOLIDS Cations	mg/l	meq/l	RESULTS AS COMPOUNDS	mg/l
Sodium, Na(calc.)	2470.	107.	as NaCl	
Calcium, Ca	720.	36.0	as $CaCO_3$	1800.
Magnesium, Mg	194.	16.0	as $CaCO_3$	800.
Barium, Ba			as $BaSO_4$	
Sum of Cations	3380.	159.		
Anions				
Chloride, Cl	3160.	88.9	as NaCl	5200.
Sulfate, SO4	1890.	39.4	as Na_2SO_4	2800.
Carbonate, CO3			as $CaCO_3$	
Bicarbonate, HCO3	1890.	31.0	as $CaCO_3$	1550.
Sum of Anions	6940.	159.		
Dis. Solids (calc.)	10300.			
Total Iron, Fe	1.0	.1	as Fe	1.0
Acid to Phen., CO2	66.0	1.5	as $CaCO_3$	150.

OTHER PROPERTIES	
Ph (units)	7.5
Spec. Gravity (g/ml)	1.004
Turbidity (jtu)	14.0

$CaCO_3$ STABILITY INDEX
@ 70° F.
@ 120° F.
@ 160° F.
Method of Stiff & Davis

3 D. G. HASS
H. E. KING

Remarks:

NALCO CHEMICAL COMPANY
VISCO CHEMICALS
P. O. BOX 87 • SUGAR LAND, TEXAS 77478

9-24A

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: U-013738

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 [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Upper Valley Unit

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME:

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

9. WELL NO.: 33

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 160'FNL and 1950'FEL

10. FIELD AND POOL, OR WILDCAT: Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 36, T36S, R1E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7460'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:				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	[XX]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

We propose to squeeze a casing leak in this well as follows:

1. MIRUPU, pull pump, install BOP's, & run 7" casing scraper to PBTD.
2. Retrieve 7" casing scraper.
3. RIH w/Baker Model "N" CIBP and Baker Model "E" Packer.
4. Test to find leak.
5. Pull packer and RIH w/7" Model "K" cement retainer and set 400' above top of leak.
6. Squeeze w/50 sacks of 65% Class A cement, 35% Poz mix, 6% gel, 6¼ lb/sack gilsonite w/3% $CaCl_2$.
7. Follow w/50 sacks of Class G neat cement w/2% $CaCl_2$
8. Wait on cement and test to 700 psi.
9. Drill out cement and test.
10. Run pump and place well back on production.
11. Clean area of all debris.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: May 6, 1977
BY: P. L. Driscoll

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

SIGNED: D. D. Myers TITLE: Division Production Manager DATE: 5-4-77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-013738

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME: Upper Valley Unit

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME:

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

9. WELL NO.: 33

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 160 ' FNL and 1950 'FEL,

10. FIELD AND POOL, OR WILDCAT: Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 36, T36S, R1E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7460' GL

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	[ ]	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) Casing Squeeze			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

We have squeezed a casing leak in this well as follows:

1. MIRUPU, pulled pump, installed BOP's, and ran 7" casing scraper to PBTD.
2. Retrieved casing scraper.
3. Used Baker Model "N" CIBP and Baker Model "E" Packer to find leak in casing between 6088'-6119'.
4. Set 7" cement retainer at 5654' and squeezed with 100 sacks of cement in two stages of 50 sacks each.
5. Found another small leak from 3313'-3163'. Squeezed with 6 sacks of cement.
6. Drilled out cement on second squeeze and tested to 500 psi. O.K.
7. Drilled out cement on first squeeze and tested to 500 psi. O.K.
8. Ran production equipment and placed well back on production.
9. Cleaned location of all debris.

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

SIGNED D. D. Myers TITLE Div. Production Manager DATE 5-22-77

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well [XX] gas well [ ] other

2. NAME OF OPERATOR
Tenneco Oil Company

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 160' FNL, 1950' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-019378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Upper Valley Unit

9. WELL NO.
33

10. FIELD OR WILDCAT NAME
Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 36, T36S, R1E

12. COUNTY OR PARISH
Garfield

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7460' 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	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other) Convert well to polymer injection			

(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.)*

5/5/81. Tenneco proposes to convert the above referenced well to a polymer injection well per the attached detailed procedure.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 5/30/81
BY: M. J. Minder

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

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

SIGNED Carley Hutton TITLE Asst.Div.Adm.Mgr. DATE 5/7/81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

UPPER VALLEY UNIT
UVU # 33
CONVERSION TO POLYMER INJECTION

UVU # 33 IS PROPOSED TO BE CONVERTED TO POLYMER INJECTION AS PART OF THE INITIAL DEVELOPMENT OF A FIELD WIDE POLYMER AUGMENTED WATERFLOOD, ENHANCED OIL RECOVERY PROCESS. THE WELL WAS ORIGINALLY DRILLED AND COMPLETED 3/5/72. CURRENTLY THE WELL IS PRODUCING 37 BOPD AND 3030 BWPD. THE WELL IS SUBMERSIBLY PUMPED AND IS COMPLETED IN THE FOLLOWING INTERVALS:

- 6936, 44', 65'
- 6987-91, 6996-7000, 7006'-08'
- 7020'-24', 7031-35', 7039-41'
- 7073-7100'

IT IS PROPOSED TO CONVERT UVU # 33 TO POLYMER INJECTION TO IMPROVE AREAL SWEEP EFFICIENCY AND INCREASE THE ULTIMATE RECOVERY OF OFFSETTING WELLS. THE CONVERSION WILL INCLUDE FIVE DIFFERENT TYPES OF WORK:

1) AREAL TRACER ANALYSIS
2) ZONAL ISOLATION
3) REPROFILE MAJOR PRODUCTIVE INTERVAL
4) PERFORM POLYMER INJECTIVITY TESTING
5) CONTINUOUS POLYMER INJECTION.

THE FOLLOWING IS A SUMMARY OF THE PROPOSED WORK IN MORE DETAIL:

COMPANY DEPT.

SUBJECT

LOCATION BY DATE

AREAL TRACER ANALYSIS

1) ROLL OUT OF HOLE WITH PRODUCTION TUBING AND SUBMERSIBLE PUMP
2) RUN IN AND OUT OF HOLE WITH GAUGE RING AND JUNK BASKET ON WIRELINE
3) RUN IN HOLE WITH NEW TUBING, TREATING PACKER, AND CONTINUOUS SURFACE RECORDING PRESSURE BOMB. SET PKR @ 6800' AND TEST CASING TO 1000 psi.
4) INJECT DUAL TRACER WITH PRODUCED WATER AT APPROXIMATELY 3100 BWPD INTO PERFS DESCRIBED EARLIER (ALL PERFS) TRACER WILL CONSIST OF 1 CURRIE OF TRITIUM PLUS 800 POUNDS OF THIOCYNATE.
5) MONITOR OFFSETTING WELLS FOR BREAKTHROUGH OF TRACER MATERIAL.
6) EVALUATION PERIOD WILL BE 6 TO 8 WEEKS.

ZONAL ISOLATION* (POLYMER SQUEEZE PERFS: 6936, 44, 65, 6987-91', 6996-7000, 7006-08', 7020-24', 7031-35, 7039-41')

1) RUN IN HOLE WITH LOGGING TOOL (DUAL DETECTOR GAMMA-RAY) AND MEASURE INJECTION PROFILE.
2) POOH WITH LOGGING TOOL
3) UNSEAT PKR AND GO IN HOLE TO 7060'
4) RUN IN HOLE WITH LOGGING TOOL (DUAL DETECTOR GAMMA-RAY TOOL) TO 7050'.
5) SIMULTANEOUSLY PUMP WATER DOWN TUBING AND ANNULUS IA/A TAG ANNULAR INJECTION AND MONITOR FLUID INTERFACE WITH LOGGING TOOL. HOLD INTERFACE AT 7050' BY VARYING EITHER OR BOTH OF THE INJECTION STREAMS (APPROXIMATELY 800 BWPD - ANNULUS AND 1200 BWPD - TUBING)
6) SQUEEZE PERFS (SEE ABOVE)* BY INJECTING 1000 BBLS OF 2.0 lb/BBL PROD POLYMER SOLUTION GELLED WITH 0.20 lb/BBL N-HANCE CR AND 0.80 lb/BBL OF N-HANCE RAD DOWN THE ANNULUS WHILE SIMULTANEOUSLY INJECTING UNGELLED 2.0 lb/BBL PROD POLYMER DOWN THE TUBING. INJECT AT RATES DETERMINED BY STEP #8 TO MAINTAIN FLUID INTERFACE AT 7050'.
7) FLUSH ANNULUS TO PERFS WITH UNGELLED PROD POLYMER.
8) PULL OUT OF HOLE WITH LOGGING TOOL
9) PULL UP HOLE WITH TUBING, PKR, AND BOMB TO 6800' AND SET PKR. SHUT WELL IN FOR 48 HRS
10) RUN IN HOLE WITH LOGGING TOOL AND MEASURE INJECTION PROFILE
11) INJECT WATER AT 3100 BWPD UNTIL PRESSURE STABILIZES, THEN SHUT WELL IN AND RUN 48 HR PRESSURE FALL-OFF TEST

COMPANY DEPT.

SUBJECT

LOCATION BY DATE

REPROFILE PERFS 7073-7100'

1) SHUT OFF HIGH FLUID LOSS PERFORATIONS BY SQUEEZING WITH 500 BBLS OF 2.0 lb/BBL PROP POLYMER SOLUTION GELLED WITH 0.20 lb/BBL N-HANCE CR AND 0.80 lb/BBL N-HANCE RAD AT 1 BPM. FLUSH TO PERFORATIONS WITH UNGELLED PROD AND SHUT WELL IN FOR 48 HRS.
2) RUN IN HOLE WITH LOGGING TOOL AND MEASURE INJECTION PROFILE.
3) INJECT WATER AT 3100 BWPD UNTIL PRESSURE STABILIZES. THEN SHUT WELL IN FOR 48 HR FALL-OFF TEST.

POLYMER INJECTIVITY TEST (PERFS 7073-7100')

1) PULL OUT OF HOLE WITH TBG, PKR, AND PRESSURE BOMB.
2) RUN IN HOLE WITH TBG, PERMANENT INJECTION PKR, AND CONTINUOUS SURFACE RECORDING PRESSURE BOMB, SET PKR AT 6800'
3) INJECT APPROXIMATELY 2000 lbs OF A GIVEN MOLECULAR WEIGHT POLYMER AT OPTIMUM CONCENTRATION AND RATE UNTIL PRESSURE STABILIZES, THEN SHUT WELL IN FOR 48HR FALL-OFF TEST.
4) REPEAT STEP #3 SEVERAL TIMES WITH DIFFERENT MOLECULAR WEIGHT POLYMERS TO OPTIMIZE THE CHOICE OF THE POLYMER AND CONCENTRATION WHICH WILL GENERATE THE BEST INJECTIVITY, RESISTANCE FACTOR, AND MOBILITY CONTROL UNDER RESERVOIR CONDITIONS.
5) ESTIMATED TOTAL INJECTION DURING TEST, APPROXIMATELY 10,000 lbs OF POLYMER DURING A THREE WEEK PERIOD

CONTINUOUS POLYMER INJECTION

1) BEGIN CONTINUOUS POLYMER INJECTION AT A CONCENTRATION AND RATE DETERMINED BY INJECTIVITY TESTING.
2) INJECT A 20% OF A PORE VOLUME OR APPROXIMATELY 150,000 lbs OF POLYMER FOR MOBILITY CONTROL DURING A PERIOD OF 1 TO 1 1/2 YEARS. THE POLYMER SLUG WILL BE FOLLOWED BY WATER INJECTION.
3) APPROXIMATELY 20% OF THE POLYMER WILL REQUIRE CROSSLINKING WITH 120,000 lbs OF ALUMINUM CITRATE FOR IN-DEPTH PERMEABILITY UNIFICATION.
4) OFFSETTING WELLS WILL BE MONITORED FOR PRODUCTION RESPONSE AND BREAKTHROUGH OF INJECTED CHEMICALS.
5) THE PREVIOUSLY SQUEEZED PERFS MAY BE REOPENED AND POLYMER FLOODED AFTER EVALUATING THE MAJOR PRODUCTIVE INTERVAL (7073-7100')

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 ___ CORPORTATION X

FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE Upper Valley WELL #33
SEC. 36 TWP. 36S RANGE 1E
Garfield COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL X
DISPOSAL WELL ☐

APPLICATION

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

Lease Name	Well No.	Field	County
Upper Valley	33	Upper Valley	Garfield

Location of Enhanced Recovery Injection or Disposal Well NW NE Sec. 36 Twp. 36S Rge. 1E

New Well To Be Drilled	Old Well To Be Converted	Casing Test
Yes ☐ No ☒	Yes ☐ No ☒ existing injector	Yes ☐ No ☒ Date _____

Depth-Base Lowest Known Fresh Water Within ½ Mile	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile	State What
4500	YES ☒ NO ☐	oil

Location of Injection Source(s)	Geologic Name(s) and Depth of Source(s)
Upper Valley Unit	Kaibab 6000-6900'

Geologic Name of Injection Zone	Depth of Injection Interval
Kaibab	7073 to 7100

a. Top of the Perforated Interval:	b. Base of Fresh Water:	c. Intervening Thickness (a minus b)
7073	4500	2573

Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO

Lithology of Intervening Zones: limestone and shale

Injection Rates and Pressures
Maximum 6000 B/D
300 PSI

The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent

Harry Hufft
Applicant

State of COLORADO)
County of Arapahoe)

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, 19 83

Linda Hancock

SEAL

My commission expires My Commission Expires Sept. 7, 1987

Notary Public in and for the State of Colorado

(OVER)

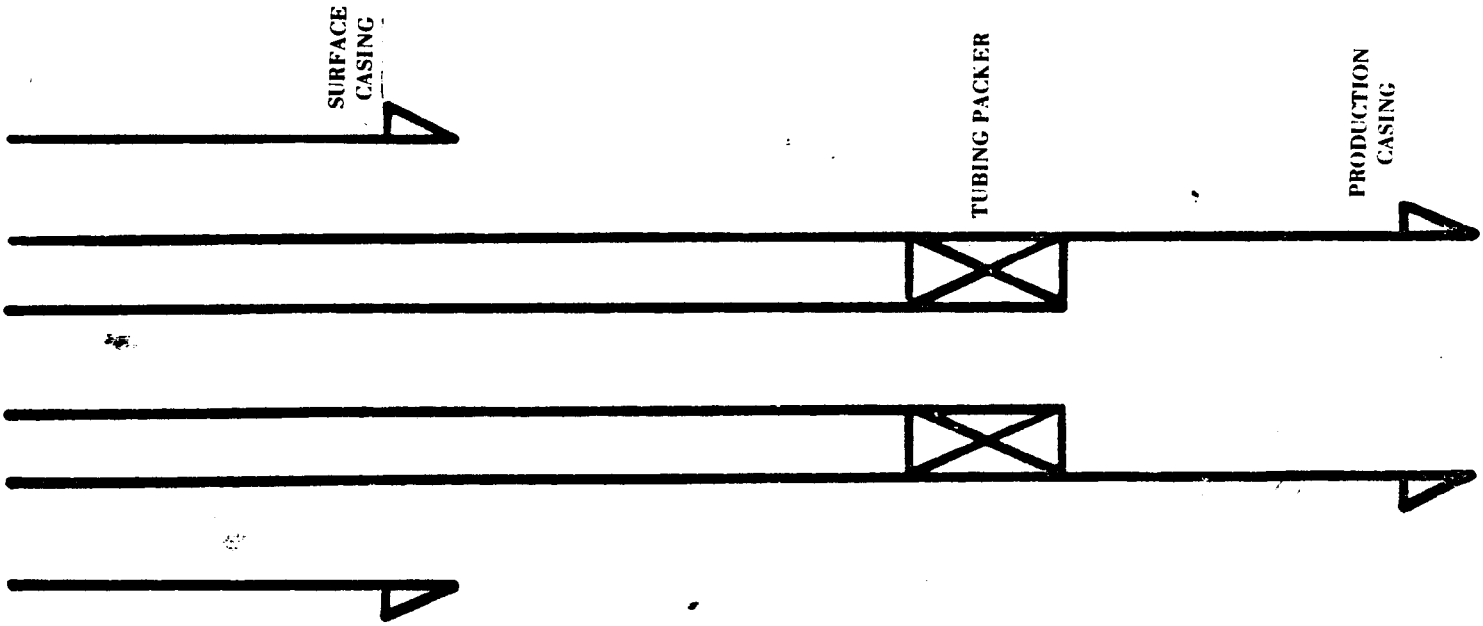
Linda Hancock
6884 S. Prescott St.
Littleton, CO 80120

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 ½ mile, together and with name of operator.
4. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division.)
5. Attach Electric or Radioactivity Log of Subject well (if released).
6. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
7. The original and 6 copies of application, and one complete set of attachments shall be mailed to the Division.
8. Deliver 1 copy of application to landowner on whose land injection well is located and to each operator of a producing leasehold within ½ mile of injection well.
9. Affidavit of mailing or delivery shall be filed not later than five days after the application is filed.
10. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county in which the well is located. The Division shall file proof of publication before the application is approved. The notice shall include name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application will be approved administratively.
11. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed September 1st, each year.
12. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
13. If there is less intervening thickness required by Rule I-5 (b) 4 attach sworn evidence and data.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9 5/8"	3024'	850	surface	returns
Intermediate					
Production	7"	7128'	125	"6168"	"CBL"
Tubing	3 1/2"	5711'	Name - Type - Depth of Tubing Packer BAKER LOK-SET @ 5711		
Total Depth 7128	Geologic Name - Inj. Zone Kaibab		Depth - Top of Inj. Interval 7073		Depth - Base of Inj. Interval 7100

SKETCH - SUB-SURFACE FACILITY



(Rule I-5 (b) 2

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

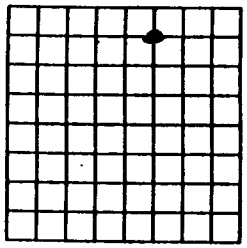
COUNTY LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

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

API NO

640 Acres



COUNTY Garfield SEC. 36 TWP. 36 RGE. 1E

COMPANY OPERATING TENNECO

OFFICE ADDRESS P.O. Box 3249

TOWN Englewood STATE ZIP CO 80155

FARM NAME Upper Valley WELL NO. 33

DRILLING STARTED ____ 19 ____ DRILLING FINISHED ____ 19 ____

DATE OF FIRST PRODUCTION ____ COMPLETED ____

WELL LOCATED NW ¼ NE ¼ ¼

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

ELEVATION DERRICK FLOOR 7473 GROUND 7460

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	6936	7100			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
9 5/8	36	K-55	3024		850		
7	20,23,26	K-55	7128		125		

TOTAL DEPTH 7128

PACKERS SET DEPTH 5711

COMPLETION & TEST DATA BY PRODUCING FORMATION

	1	2	3
FORMATION	Kaibab		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	inj. well		
PERFORATED INTERVALS	6936,6944,6965		
	6987-7008 (CMT squeezed 5/82)		
	7020-7091		
	7073-7100		
ACIDIZED?	yes		
FRACTURE TREATED?	no		

INITIAL TEST DATA

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

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

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

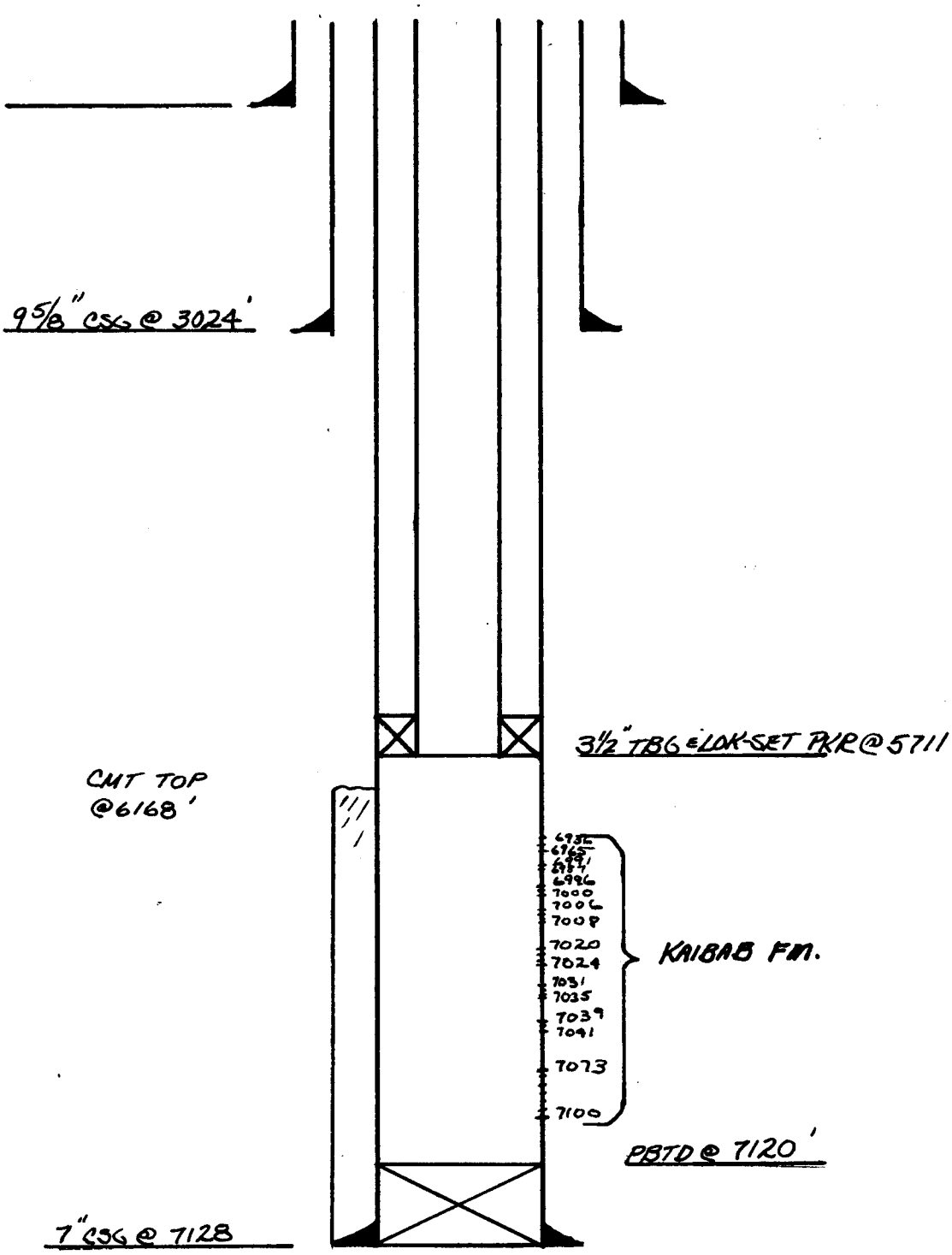
Telephone (303) 740-4800 Harry Hufft, Production Manager
Name and title of representative of company

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

My Commission Expires Sept. 7, 1987 Linda Hancock

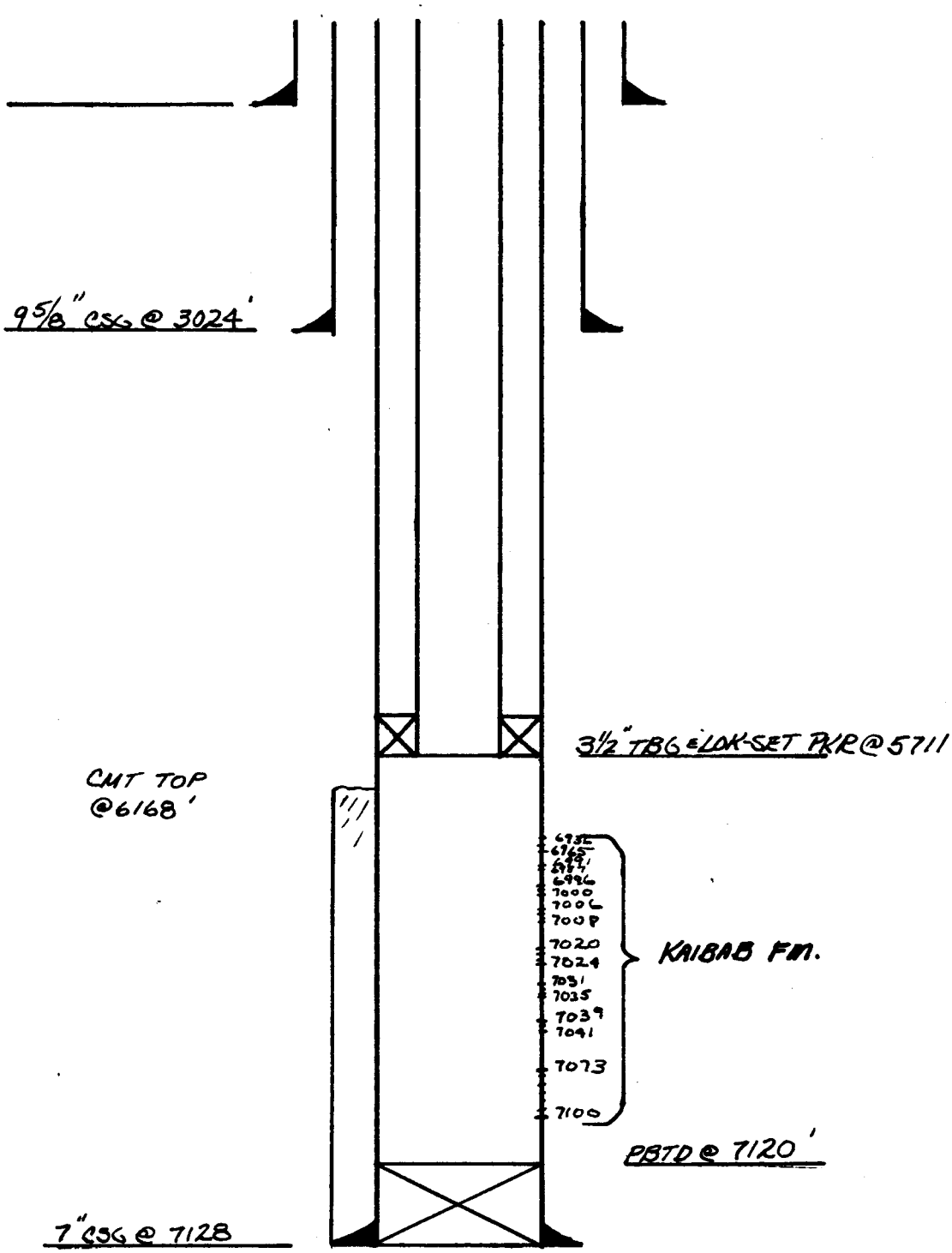
6884 S. Prescott St.
Littleton

UPPER VALLEY UNIT WELL NO. 33
WELLBORE SCHEMATIC



NOTE: NOT TO SCALE

UPPER VALLEY UNIT WELL NO. 33
WELLBORE SCHEMATIC



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.

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

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.

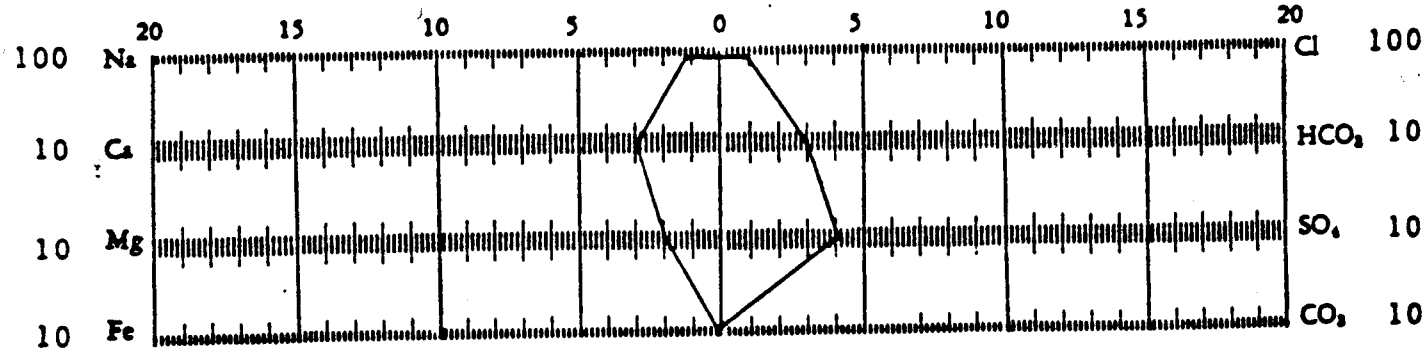
Resistivity .730 ohm-meters @ 74 °F. measured

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

Actual Plugging Solids	Mg/L
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

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.

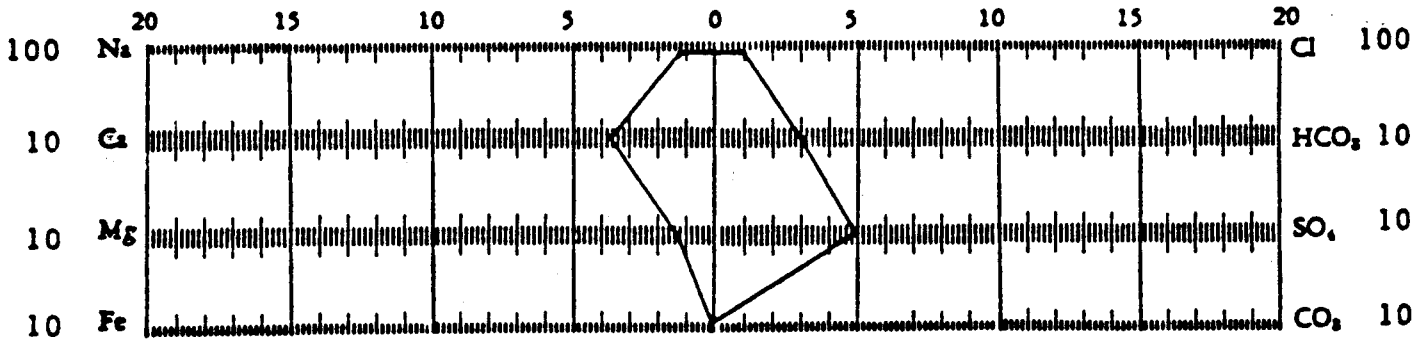
Resistivity .750 ohm-meters @ 74 °F. measured

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-	(Grav.)	Hydroxide	-0-	-0-	

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



Scale: meq/L

Actual Plugging Solids	Mg/L
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

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

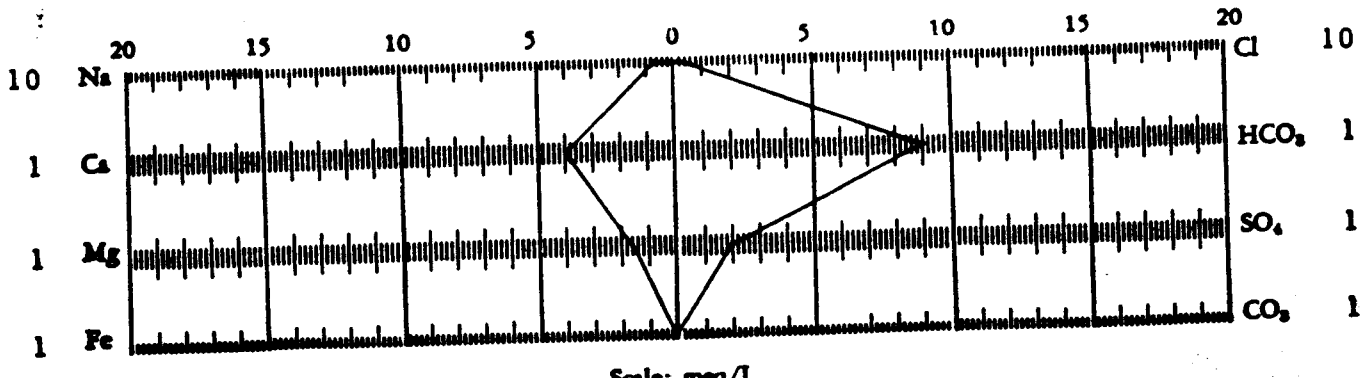
Specific Gravity 1.0027 @ 60 °F.

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	



Scale: meq/L

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

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * * * * * *

Operator: Tenneco Well No. Upper Valley Unit #33

County: Garfield T 36S R 1E Sec. 36 API# 43-017-30047

New Well ___ Conversion ___ Disposal Well ___ Enhanced Recovery Well X

	YES	NO
UIC Forms Completed	✓	
Plat including Surface Owners, Leaseholders, and wells of available record	✓	
Schematic Diagram	✓	
Fracture Information	✓	
Pressure and Rate Control	✓	
Adequate Geologic Information	✓	
Fluid Source	Kaibab	
Analysis of Injection Fluid	Yes ✓ No ___	TDS 11,604
Analysis of Water in Formation to be injected into	Yes ✓ No ___	TDS 11,604
Known USDW in area	Navajo	Depth 4500
Number of wells in area of review	2 Prod. 2	P&A 0
	Water 0	Inj. 0
Aquifer Exemption	Yes ___	NA ✓
Mechanical Integrity Test	Yes ___ No ✓	
	Date ___	Type ___

Comments: TOC 6148

Reviewed by: MJ

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: #33 API NO. 43-017-30047 LEASE NO. U-019378 Upper Valley

SECTION 36 TOWNSHIP 36S RANGE 1E COUNTY Garfield

SURFACE CASING 9 5/8" @ 3024 WITH 850 sx CEMENT

INTERMEDIATE CASING ____ @ ____ WITH ____ CEMENT

PRODUCTION CASING 7" @ 7128 WITH 125 sx CEMENT

TUBING 3 1/2 @ 5711

PACKER SET @ 5711 TYPE Lok-Set MODEL Baker

CONDITIONS DURING TEST:

TUBING PRESSURE: Vacuum psig.

CASING/TUBING ANNULUS PRESSURE 240 psig. for 15 minutes

CHANGE DURING TEST 305# → 240# over 15 mins

CONDITIONS AFTER TEST:

TUBING PRESSURE: vacuum psig.

CASING/TUBING ANNULUS PRESSURE: 0 psig.

COMMENTS: POLYMER WELL
6000 BWPD / 300 PSI
* Small leak in wellhead valve on annulus
Pressure decrease probably all due to leak in
valve @ wellhead.

Dorothy Swindell
WITNESS

WITNESS

Operator Chg

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.: varies

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 020910

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
FEB 01 1988
DIVISION OF OIL, GAS & MINING

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

7. UNIT AGREEMENT NAME: Upper Valley Unit

2. NAME OF OPERATOR: Tenneco Oil Company N0950

8. FARM OR LEASE NAME:

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

9. WELL NO.:

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

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Townships 36S,37S;Range 1E

14. PERMIT NO.

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

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	[ ]	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) 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.

N0765

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:

*See Instructions on Reverse Side

Tenneco Oil Co. to Citation Oil and Gas Corp.

N0950 to N0265

Eff 9-1-87

RECEIVED
FEB 01 1988
DIVISION OF
OIL, GAS & MINING

UPPER VALLEY UNIT

	Upper Valley #1	SE/4NE/4	Sec. 11, T-36-S, R-1-E Water Injection	43-017-11221 ✓
	Upper Valley #2 POW/KBAB	NW/4NW/4	Sec. 13, T-36-S, R-1-E	43-017-16025 ✓
	Upper Valley #3 POW/KBAB	SE/SW	Sec. 13, T-36-S, R-1-E	43-017-16026 ✓
	Upper Valley #4	SE/SE	Sec. 24, T-36-S, R-1-E	43-017-16027 ✓
W I W	Upper Valley #5 POW/KBAB	SE/SW	Sec. 12, T-36-S, R-1-E	43-017-16028 ✓
	Upper Valley #6	SE/NW	Sec. 13, T-36-S, R-1-E	43-017-20233 ✓
W I W	Upper Valley #7 POW/KBAB	SE/NE	Sec. 24, T-36-S, R-1-E	43-017-20258 ✓
	Upper Valley #8 POW/KBAB	NW/SW	Sec. 13, T-36-S, R-1-E	43-017-20275 ✓
	Upper Valley #9 POW/KBAB	NW/SE	Sec. 24, T-36-S, R-1-E	43-017-20324 ✓
	Upper Valley #10 POW/KBAB	SE/NE	Sec. 25, T-36-S, R-1-E	43-017-30001 ✓
	Upper Valley #11 POW/KBAB	SE/SE	Sec. 25, T-36-S, R-1-E	43-017-30002 ✓
	Upper Valley #12 POW/KBAB	NW/SW	Sec. 6, T-37-S, R-2-E	43-017-30015 ✓
	Upper Valley #13 POW/KBAB	NE/NW	Sec. 24, T-36-S, R-1-E	43-017-30003 ✓
	Upper Valley #14 POW/KBAB	SE/SE	Sec. 11, T-36-S, R-1-E	43-017-30004 ✓
	Upper Valley #15	SE/SW	Sec. 24, T-36-S, R-1-E	43-017-30005 ✓
W I W	Upper Valley #16 PPA	SW/NE	Sec. 11, T-36-S, R-1-E	43-017-30007 ✓
	Upper Valley #17 POW/KBAB	SE/NE	Sec. 36, T-36-S, R-1-E	43-017-30011
	Upper Valley #17X POW/KBAB	SE/NE	Sec. 36, T-36-S, R-1-E	43-017-30071 ✓
	Upper Valley #18 W I W / KBAB	NW/SW	Sec. 31, T-36-S, R-2-E	43-017-30012 ✓
	Upper Valley #19 POW/KBAB	NW/NW	Sec. 6, T-37-S, R-2-E	43-017-30013 ✓
	Upper Valley #20 POW/KBAB	NW/NE	Sec. 25, T-36-S, R-1-E	43-017-30014 ✓
	Upper Valley #21 PPA	NW/NW	Sec. 7, T-37-S, R-2-E	43-017-30021 ✓
	Upper Valley #22	SE/NW	Sec. 14, T-36-S, R-1-E	43-017-30025 ✓
W I W	Upper Valley #23	SE/NW	Sec. 30, T-36-S, R-2-E	43-017-30030 ✓
W I W	Upper Valley #24	NE/NE	Sec. 23, T-36-S, R-1-E	43-017-30041 ✓
W I W	Upper Valley #25	SW/SE	Sec. 36, T-36-S, R-1-E	43-017-30033 ✓

UPPER VALLEY UNIT (Continued)

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

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

Operator: CITATION OIL AND GAS
Field/Unit: UPPER VALLEY

Well: #33
Township: 36S Range: 01E Sect:36

API: 43-017-30047
Welltype: INJW Max Pressure: 300

Lease type: FEDERAL
Surface Owner: FOREST

Test Date: 9/16/91

CASING STRING	SIZE	SET AT	PRESSURE	OBSERVATIONS
Surface:	9 5/8	3024	3:20	pressured to 310 PSI held for 15 min
Intermediate:		0		
Production:	7	7128		Passed MIT
Other:		0		
Tubing:	3 1/2			
Packer:		5711		

Recommendations:

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
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.

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	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: 10/2/96	Well Owner/Operator: Citation	
Disposal Well: _____	Enhanced Recovery Well: X	Other: _____
API No.: 43-017-30047	Well Name/Number: #33	
Section: 36	Township: 36S	Range: 2E

Initial Conditions:

Tubing - Rate: _____ Pressure: VAC psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0		
5	310	
10	300	
15	300	
20		
25		
30		

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi

Casing/Tubing Annulus Pressure: 0 psi

REMARKS: Passed MIT

Operator Representative

D. Jarvis
DOGM Witness

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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

7. Unit Agreement Name: **Upper Valley Unit**

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

8. Well Name and Number: **Various**

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

9. API Well Number: **Various** 43-017-30047

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

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

4. Location of Well

Footages: **Various** 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**

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)	
☐ Abandonment	☐ New Construction	☐ Abandonment*	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☒ Other **Increase Injection Pressure Fieldwide**			
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:

RECEIVED
JUN 09 1997
DIV. OF OIL, GAS & MINING

13.

Name & Signature: Debra Harris **Debra Harris** Title: **Regulatory Analyst** Date: **6/6/97**

(This space for State use only)

(12\92) (See Instructions on Reverse Side)

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

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

43-017-30047

Well Name: UV #33 API Number: 43-017-30047

Qtr/Qtr: NENW Section: 36 Township: 36S Range: 1E

Company Name: Citation oil

Lease: State _____ Fee _____ Federal _____ Indian _____

Inspector: D Jarvis Date: 10/3/01

Initial Conditions:

Tubing - Rate: _____ Pressure: _____ psi

Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	0	
5	300	
10	302	
15	302	
20		
25		
30		

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: pumped 24 bbls H_2O
no pressure loss after 15 min.
Passed MIT

Kenneth A. Judge
Operator Representative

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: U 019378

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name: Upper Valley Unit

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

8. Well Name and Number: Upper Valley Unit # 33

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

9. API Well Number: 43-017-30047

3. Address and Telephone Number: P O Box 690688, Houston, Texas 77269 (281) 517-7800

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

4. Location of Well

Footages: 1950' FEL & 160' FNL

QQ, Sec., T., R., M.: NE NW SEC. 36-36S-1E

County: Garfield

State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandonment	☐ New Construction	☐ Abandonment*	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☒ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other			

Approximate date work will start: 2002

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)

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

(12\92)

(See Instructions on Reverse Side)

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

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: U 013734

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name: Upper Valley Unit

8. Well Name and Number: Various

9. API Well Number: 43-017- 30049

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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

3. Address and Telephone Number: P O Box 690688, Houston, Texas 77269 (281) 517-7800

4. Location of Well

Footages:

QQ, Sec., T., R., M.: S- 36 T 36S R01E

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

Approximate date work will start

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% HC1 acid containing iron sequestring 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

COPY 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)

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

DATE: 10/27/04

BY: [signature]

(See Instructions on Reverse Side)

(12\92)

Federal Approval Of This Action Is Necessary

RECEIVED

OCT 26 2004

DIV. OF OIL, GAS & MINING

UVU INJECTION WELL ACIDIZING SCHEDULE

UVU WELL #	PROPOSED ACIDIZING VOLUME (gals 15% HCl)
1	600
5	600
16	600
19	1050
23	600
25	950
33	1500
34	400
39	1200
	Total = 7500 gallons

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: **U 013734**

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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

7. Unit Agreement Name: **Upper Valley Unit**

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

8. Well Name and Number: **Various**

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

9. API Well Number:

3. Address and Telephone Number: **P O Box 690688, Houston, Texas 77269 (281) 517-7800**

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

4. Location of Well

Footages:

County: **Garfield**

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

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)	
☐ Abandonment	☐ New Construction	☐ Abandonment*	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☒ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other			
Approximate date work will start		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

T 36S R 01E S-36
43-017-30047

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)

(12\92) (See Instructions on Reverse Side)

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: U 019378

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 Unit

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection

8. WELL NAME and NUMBER: Upper Valley Unit 33

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

9. API NUMBER: 4301730047

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

PHONE NUMBER: (281) 517-7800

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

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 160 FNL & 1950 FEL

COUNTY: Garfield

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 36 36S 1E

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 11/10/2006	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☑ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Citation Oil & Gas Corp. requests permission to repair a suspected casing leak in the above well and return to injection with the attached procedure.

COPY SENT TO OPERATOR
Date: 11.14.06
Initials: RM

Accepted by the Utah Division of Oil, Gas and Mining

Date: 11/14/06

By: Dan Jarvis

NAME (PLEASE PRINT) Sharon Ward TITLE Permitting Manager

SIGNATURE Sharon Ward DATE 11/7/2006

(This space for State use only)

RECEIVED
NOV 13 2006
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Well History Summary

Updated: 10/30/06 CSS

Well: Upper Valley Unit #33

API: 43-017-30047 Lease #: U-013738

COG: WI: 99.90% NRI: 86.35%

Location: 160' FNL, 1950' FEL (NE/NW/NE), Sec 36-T36S-R1E
Garfield County, Utah

Elevations: 7475' GL 7488' KB
TD: 7128' KB PBTD: 7124' KB

Casing: 9-$^{5}/_{8}$" 36# K-55 @ 3024' w/ 850 sx (15" Hole)
7" 20&23&26# K-55 @ 7128' w/ 125 sx w/ TOC @ 6168' (8-$^{3}/_{4}$" Hole)

Tubing: (87 Jts EUE 8rd, 95 Jts Buttress) internally lined 3-$^{1}/_{2}$" 9.3# J-55 w/ Baker Lok-set @ 5711' (orig compl – unknown if changed)

Init Compl: 3/5/72: Perf K-4 @ 7073' – 7100' w/ 1Jspf. Acid w/ 2000 gal 15% HCl. Perf K-3 @ 7020' – 7024', 7031' – 7035', 7039' – 7041' 1Jspf. Perf K-2 @ 6987' – 6991', 6996' – 7000', 7006'- 7008' w/ 1Jspf. Perf K-1 @ 6965', 6936'. Acid K-1, 2, 3 w/ 6000 gal 28% HCl. Acid K-1, 2, 3 again w/ 6000 gal 28% HCl.

IP: 392^{bopd} & 2738^{bwpd}

Perforations: K-1: 6965', 6936' (Compl & acid: 3/72, **Sqz'd**: 5/82)
K-2: 6987'–6991', 6996'–7000', 7006'–7008' 1Jspf (Compl & acid: 3/72, **Sqz'd**: 5/82)
K-3: 7020'–7024', 7031'–7035', 7039'–7041' 1Jspf (Compl & acid: 3/72, **Sqz'd**: 5/82)
K-4: 7073'–7100' 1Jspf (Compl & acid: 3/72, **Sqz'd**: 5/82)
K-4: 7073'–7100' 2Jspf (Compl & acid: 5/82, Acid: 7/89)

Well Status: Active Water Injection Well

Workovers:

3/8/72	ESP change
7/14/72	ESP change
5/28/72	ESP change
8/18/72	ESP change
4/17/74	ESP change
6/29/74	Treated K-4 w/ Dowell Zonetrol P.
9/74 & 6/75 & 5/77	Csg leak @ 3209 sqz'd 4 times w/ total of 256 sx.
5/29/75	ESP change
4/25/76	ESP change
5/8/77	ESP change

6/5/78	ESP change
11/4/81	Placed well on water injection into K-1, 2, 3, 4
5/2/82	K-1, 2, 3, 4 perfs sqz'd w/ 790 sx in 5 stages. Perf K-4 @ 7073' – 7100' 2Jspf. Acid w/ 50 gal 15% HCl. Well placed back on injection.
12/84	Cathodic protection installed.
7/13/89	Acid w/ 600 gal 15% HCl.
10/2/96	Passed MIT
1/30/02	Acid w/ 850 gal
12/25/04	Acidize w/1500 gal 15% acid

Work Over Procedure:

Comments: 1. The well has had multiple casing leaks in the past.
2. Failed MIT could either be a hole in the casing or a leaking packer.

Objective: Obtain MIT and return well to injection.

1. MIRUSU.

2. ND Tree. NU 3M BOP's. Release Model R packer and TOOH w/ 3 ½" tubing, standing back. Perform visual inspection of tubing.

3. PU and TIH with 6" bit and scraper to PBTD at 7124'.

4. RIH with RBP and PKR for 7" 20, 23 and 26# K-55 casing. Set RBP @ 5600' PU and set packer @ 5595'. Test RBP to 1000 psi.

5. Navajo formation is located from 3299 to 5502'.

6. Isolate casing leak.

7. Once hole is located, establish injection rate and pressure (Monitor 7" x 9 5/8" annulus). Report results to Chad Stallard. Pressure test casing annulus to 500 psi to ensure there are no additional leaks up hole.

8. RIH and release RBP and PUH and set 50' below hole in casing and test to 1000 psi. Once tested dump 2 sacks sand on top. Set packer 200' above hole in casing.

9. RU Pump company and mix and squeeze cement as follows:

10. SD and wait on cement.

11. RDMO pump company.

12. Pressure test leak to 500 psi in morning before POOH and TIH with 6" bit and drill out cement. Will need 4-4 ¾" drill collars to drill out cement and pressure test squeeze perfs to 500# for 15 minutes.

13. If squeeze holds, POOH and PU RBP retrieving head and wash out to RBP and POOH with RBP.

14. TI with injection assembly, set injection packer at 5711' and MIT well. Coordinate MIT with State and BLM.

15. Do not return well to injection prior to obtaining approval from regulatory agency.

16. RDMOSU.

Notes:

- 7" 26# K-55 casing 6.276" ID, 6.151" Drift ID and 0.0.0382 bbl/ft. capacity.

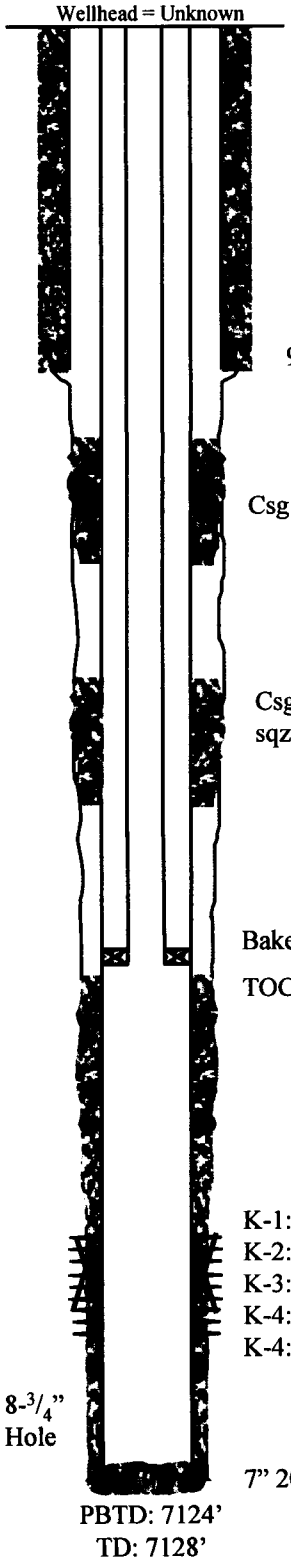
List of Citation Contacts

Foreman	Gary Harding	Office: 435.826.4245		
Engineer	Chad Stallard	Office: 281-517-7527	Cell:	713.249.4671
Engineer	Jeff Teare	Office 281-517-7199	Cell:	713-731-2514

CITATION OIL AND GAS CORPORATION
WELLBORE DIAGRAM AND INFORMATION

Well Name: UVU #33 Field: Upper Valley Unit
Updated: 10/30/06 CSS Location: (NE/NW/NE), Sec 36-T36S-R1E
County: Garfield State: Utah
Current Stat: Active Water Injector

Surface: 160' FNL, 1950' FEL (NE/NW/NE)
Sec 36-T36S-R1E
Garfield County, Utah
Completed: 3/5/72
Elevation: 7475'
KB: 7488'
API #: 43-017-30047



9-5/8" 36# K-55 @ 3024' w/ 850 sx (15" Hole)

Csg leak @ 3209 sqz'd 4 times w/ total of 256 sx. (9/74 & 6/75 & 5/77)

Csg leak 6088'
sqz 100 sx 5/77

TUBING DETAIL			
Qty	Description	Length	Depth
---	KB		
87	3-1/2" 9.3# J-55 EUE 8rd internally lined		
93	3-1/2" 9.3# J-55 Buttress internally lined		
1	Baker Lok-set		5,711.00
	(orig compl – unknown if changed)		

Baker Lok set pkr @ 5711'

TOC @ 6168' (CBL)

K-1: 6965', 6944', 6936' (Compl & acid: 3/72, Sqz'd: 5/82)
K-2: 6987'-6991', 6996'-7000', 7006'-7008' 1Jspf (Compl & acid: 3/72, Sqz'd: 5/82)
K-3: 7020'-7024', 7031'-7035', 7039'-7041' 1Jspf (Compl & acid: 3/72, Sqz'd: 5/82)
K-4: 7073'-7100' 1Jspf (Compl & acid: 3/72, Sqz'd: 5/82)
K-4: 7073'-7100' 2Jspf (Compl & acid: 5/82, Acid: 7/89, 1/03)

7" 20&23&26# K-55 @ 7128' w/ 125 sx

Citation
OIL & GAS CORP.

November 7, 2006

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

43.017.30047
36S 1E 36

Attn: Dan Jarvis
UIC Department

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

Dear Mr. Jarvis:

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

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

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

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

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

Sincerely,

Sharon Ward

Sharon Ward
Permitting Manager
Citation Oil & Gas Corp.

RECEIVED
NOV 13 2006
DIV. OF OIL, GAS & MINING

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: UPPER VALLEY UNIT #33 API Number: 4301730047 0000
Qtr/Qtr: NE ¼ NW ¼ Section: 36 Township: 36S Range: 16E SLBM
Company Name: CITATION
Lease: State 71-019378 Fee _____ Federal _____ Indian _____
Inspector: _____ Date: _____

Initial Conditions:

Tubing - Rate: 3028/04 Pressure: 0 psi

Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0		
5		
10		
15	360 DROPPED OFF 4 TIMES	
20		
25		
30		

Results: Pass/Fail

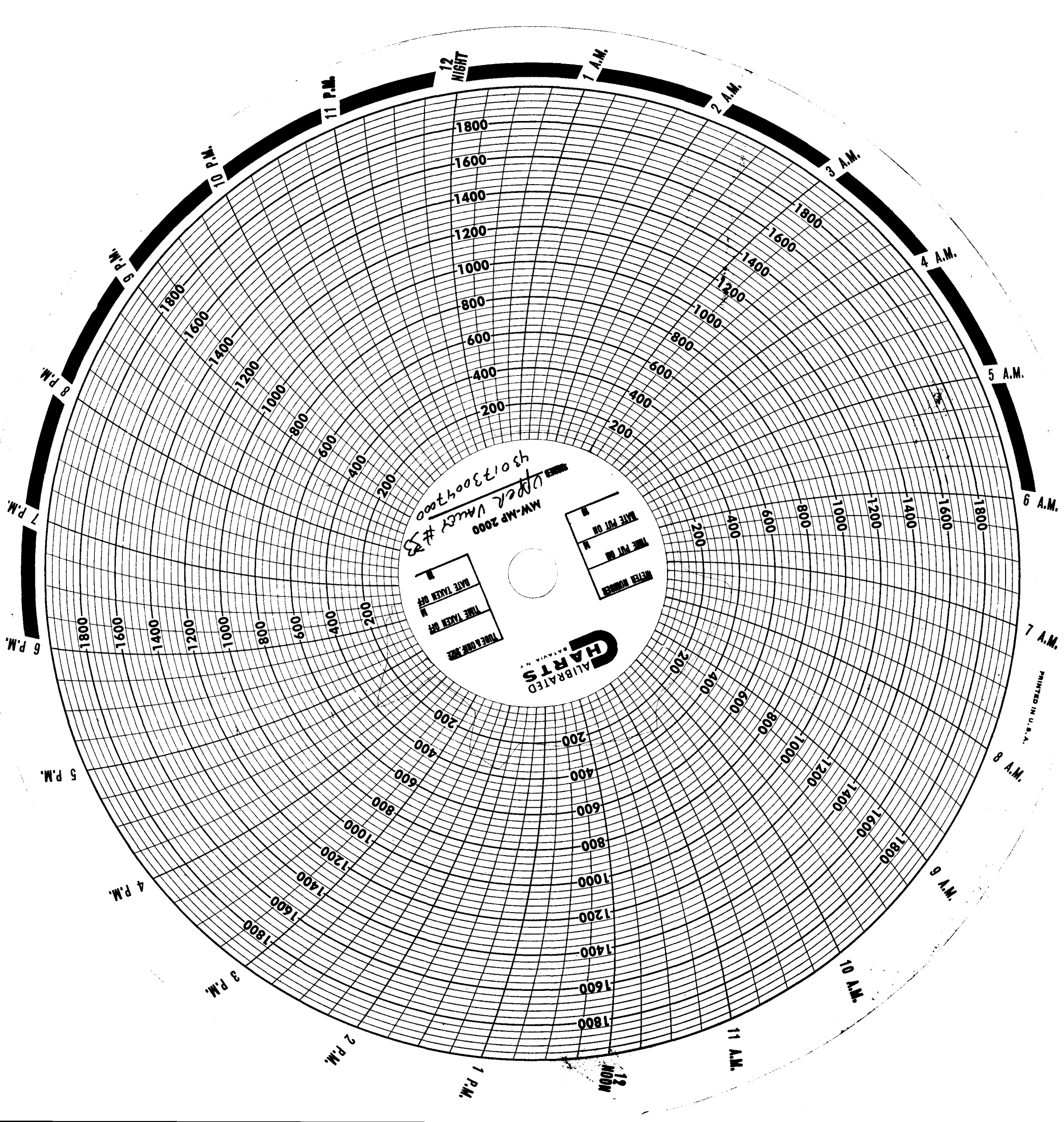
Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: 35 BBLS OF PRODUCTION WATER INJECTED WOULD NOT CLIMB PAST 160 PSI
15 MORE BBLS OF PRODUCTION WATER ADDED + HOLDING PRESSURE. AFTER 5 MINUTES PRESSURE DROPPED. PRESSURE UP AGAIN ADDED 1 BBL OF PRODUCTION WATER PRESSURE DROPPED OFF TO 200 PSI AFTER 7 MINUTES. BLOW OFF GAS TRY AGAIN. STILL DROPS OF FAILED TEST 50 BBL PRODUCTION WATER USED

Glenn Wilson
Operator Representative


12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
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9 A.M.
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1800
1600
1400
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1000
800
600
400
200
MW-MP 2000
Upper Valley #3
93013300+200
METER NUMBER
TIME PUT ON
DATE PUT ON
TIME TAKEN OFF
DATE TAKEN OFF
TIME & DATE SEAL
ALBRATED
CHARTS
BATAVIA, N.Y.
PRINTED IN U.S.A.

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: U 019378

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 Unit

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection

8. WELL NAME and NUMBER: Upper Valley Unit 33

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

9. API NUMBER: 4301730047

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

PHONE NUMBER: (281) 517-7800

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

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 160 FNL & 1950 FEL

COUNTY: Garfield

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 36 36S 1E

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☑ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: 12/4/2006	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Citation RU, POOH. LD pkr. PU bit & scrapper. RIH, POOH w/bit & scrapper. LD tbg. PU BP & pkr. RIH w/10 rods, 150 jts. Set plug @ 5505'. Came up to 5473'. Set pkr. Tested to 1000 psi. Isolated csg leak between 3725-4041'. Set pkr @ 3491'. RU tested surface lines to 3000 psi. Pumped 20 bbls FW. Mixed and pumped 150 sxs neat "G" cement, 2% calcium chloride, displaced with 23.5 bbls FW. SD & hesitated squeeze. Waited 30 minutes & pumped 1.25 bbls @ .5 BPM, 300 psi. SD 30 min. pressure dropped to 275 psi, pumped .25 bbls and squeezed. Pressured up to 1000 psi & held. Pressure tested tbg to 500 psi for 10 min. OK. POOH, LD pkr. PU drill collars & 6 1/8" rock bit. RIH & tagged cement @ 3519'. Drilled out 120' cement. Drilled through cement @ 3923'. Pressure tested csg to 350 psi for 15 min. Squeeze held. RIH to RBP. Circulated sand of plug. POOH. LD drill collars & bit. PU retrieving tool. RIH released BP & POOH, LD 2 7/8" work string and RBP. PU new pkr. RIH w/Arrow set nickel coated pkr , 181 jts 8 RD N-80 tbg. Set pkr @ 5684'. ND BOP, NU WH. Filled csg w/pkr fluid & water. Pressure tested to 325 psi for 30 min. Held. RD MO. Copy of MIT and chart attached.

NAME (PLEASE PRINT) Sharon Ward TITLE Permitting Manager

SIGNATURE Sharon Ward DATE 12/5/2006

(This space for State use only)

RECEIVED
FEB 09 2007
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal Field Office
170 South 500 East
Vernal, Utah 84078-2799

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

IN REPLY REFER TO:

MECHANICAL INTEGRITY PRESSURE TEST
CASING/TUBING ANNULUS

LEASE NO.: _____

COMPANY NAME: Citation oil + Gas DATE: 12-4-06

WELL NAME: Upper Valley unit #33 PERMIT NO.: _____

FIELD NAME: Upper Valley unit COUNTY: Garfield

WELL LOCATION: 1/41/4 _____ SEC. 36 TWN. 36S RNG. 1E

WELL TYPE: SWD _____ ER _____ 2H _____ OTHER: _____

TYPE OF PACKER: Arrow Set TOTAL DEPTH 7128'

PACKER SET DEPTH (ft): 5684

SURFACE CASING SIZE: 9 5/8 FROM: 0 FT. to 3024' FT.

CASING SIZE: 7" FROM: 0 FT. to 7128' FT.

TUBING SIZE: 2 7/8 TUBING PRESSURE DURING TEST: 0 PSIG

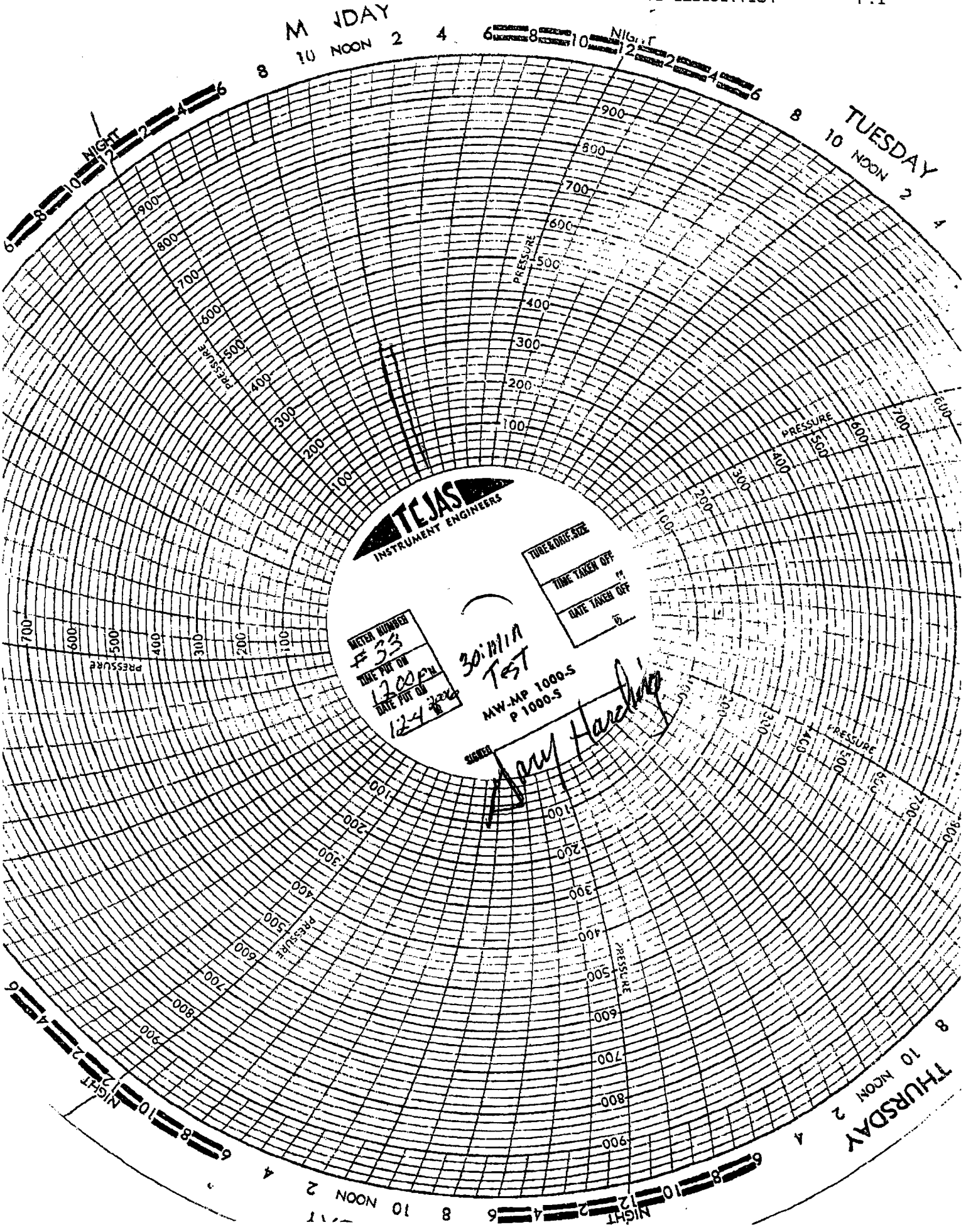
TIME OF DAY: 1200 am/(pm)

TIME (min)	TEST 1	TEST 2
0	325 psig	_____ psig
5	325 psig	_____ psig
10	325 psig	_____ psig
15	325 psig	_____ psig
20	325 psig	_____ psig
25	325 psig	_____ psig
30	325 psig	_____ psig
35	_____ psig	_____ psig
40	_____ psig	_____ psig
45	_____ psig	_____ psig
50	_____ psig	_____ psig
55	_____ psig	_____ psig
60	_____ psig	_____ psig

TEST CONDUCTED BY: Gary Harding

INSPECTED BY: _____

OTHERS PRESENT: Brian Burke


MONDAY
TUESDAY
THURSDAY
NOON
NIGHT
PRESSURE
TEJAS
INSTRUMENT ENGINEERS
TUBE & ORIF. SIZE
TIME TAKEN OFF
DATE TAKEN OFF
METER NUMBER
#33
TIME PUT ON
1200 PM
DATE PUT ON
12-4-06
30 MIN TEST
MW-MP 1000-S
P 1000-S
SIGNED
Jerry Hardin

Citation OIL & GAS CORP.

DAILY WORKOVER REPORT

Field: UVU Well: #33 Date: 12-4-06

Rpt #: 12 AFE #: 061002

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: Fix Csg leak

Current Activity:

Details of Past 24 Hrs Operations

Filled csg with packer fluid + water. pressure tested to 325 psi for 30 min held. Rig down + moved to #15.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	2975 ✓	52,332 ✓	Cementing	—	36,449 ✓
Labor			Supervision:		
Trucking	—	6307 ✓	Tbg, Rods, Pumps		
Mud & Water	—	2000 ✓	Other		
Rentals			Weatherford	2916 ✓	24,776 ✓
Wireline			P&S.	—	1500 ✓
			Contingency		
			Total Daily Cost:	5891 ✓	123,364 ✓
			Cumulative Cost:		

Citation OIL & GAS CORP

DAILY WORKOVER REPORT

Field: Upper Valley unit Well: #33 Date: 12-3-06

Rig #: 11 AFE #: 061002

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: Fix Csg leak

Planned Activity:

Details of Past 24 Hrs Operations

Finished pooh. laied down R.B.P. p.u New PKR. Arrow Set Nickel Coated R.H. with 181 Jt. 2 7/8 8RD N-80. replaced Seals IN tubing. Set packer @ 5684' N.D. Bop + HH well head. SION.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
	4485 00	49,357 00	Cementing:		36449 00
			Supervision:		
	—	6307 00	Tbg, Rods, Pumps		
	—	2000 00	Other		
			Weatherford	7400 00	21,860 00
			PRS	1500 00	1500 00
			Contingency		
			Total Daily Cost:	13,385 00	117,473 00

Citation
OIL & GAS CORP

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 12-2-06

Rpt #: 10 AFE #: 061002

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: 1

Current Activity:

Details of Past 24 Hrs Operations

pooh layed down drill collars + bit. p.u retrieving tool RIH. released bridge plug pooh laying down 2 7/8 10RD tubing SION.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	4795 00		Cementing	—	36,449 00
Labor			Supervision		
Trucking	—	6307 00	Tbg, Rods, Pumps		
Mud & Water	—	2000 00	Other		
Rentals			Weatherford	—	14,460
Misc					
			Contingency		
			Total Daily Cost	4795	104,088 00
			Cumulative Cost:		

Citation OIL & GAS CORP

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 12-1-06

Rpt #: -9- AFE #: 061002

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: Fix csg leak

Current Activity: drilling out cement.

Details of Past 24 Hrs Operations

Drill through cement @ 3923'. pressure tested csg to 350# for 15min. the Squeez held. RIH to RBP Circulated Sand off plug. SION.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	5175.00	40,077.00	Cementing	—	36,449.00
Labor			Supervision:		
Trucking	—	6307.00	Tbg, Rods, Pumps		
Mud & Water	—	2000.00	Other		
Rentals			Weather Ford.	—	14,460.00
Wireline					
			Contingency		
			Total Daily Cost	5175.00	99,293.00
			Cumulative Cost:		

Citation OIL & GAS CORP.

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 11-30-06

Rpt #: -8- AFE #: 061002

Rig #: 9 Reported By: Gary Harding AFE Amount: _____

Objective: fix csg leak

Current Activity: Drill out cement

Details of Past 24 Hrs Operations

pressure test tbg to 500# for 10 min. OK. pooh with 111 Jts Lay down pKR. p.u. Drill Collars + 6 1/8 rock bit R.I.H. + tag Cement at 3519' Drill out 120' Cement. SION.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	4639 00	34,902 00	Cementing:	—	36,449 00
Labor			Supervision:		
Trucking	—	6307 00	Tbg, Rods, Pumps		
Mud & Water	—	2000 00	Other		
Rentals			Weatherford	1842 00	14,460 00
Wireline					
			Contingency		
			Total Daily Cost:	6481 00	94,118 00
			Cumulative Cost:		

Citation OIL & GAS CORP.

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 11-29-06

Rpt #: -7- AFE #:

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: Fix Csg leak

Current Activity: Csg Squeez

Details of Past 24 Hrs Operations

Got Halliburton to location at 10:00 am roads snow pack, High temp 7°. RU test surface lines to 3000psi. Halliburtons Steel lines froze up, had to thaw out. pump 20bbls F.W. @ 2.2 bpm @ 43 psi to determine injection rate. mix + pump 150 sx of neat Type G Cement 2% Calcium Chloride, Density 15.8 @ 2bpm 76 psi 30.5 bbls, displaced with 23.5 bbls F.W. @ 2bpm 64 psi. pressure Drop to 40 psi S.D. waited 30 min. pump 1.25 bbls @ .5 bpm press up to 300 psi. S.D 30 min pressure Drop to 275 psi pump .25 bbls Shut down pressured up to 1000 psi waited 20 min Sqz held S.I.O.N.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	3355 00	30,263 00	Cementing: Halliburton	36,449 00	36,449 00
Labor			Supervision:		
Trucking	—	6307 00	Tbg, Rods, Pumps		
Mud & Water	—	2000 00	Other		
Rentals			Weatherford	1350 00	12,618 00
Wireline					
			Contingency		
			Total Daily Cost:	41,154 00	87,637 00
			Cumulative Cost:		

Citation Oil & Gas Corp.

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 11-28-06

Rpt #: 6 AFE #:

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: Cement CSG

Current Activity:

Details of Past 24 Hrs Operations

Waiting on Halliburton - Snow storm

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	4110 00	26,908 00	Cementing:		
Labor			Supervision:		
Trucking	—	6307 00	Tbg, Rods, Pumps		
Mud & Water	—	2000 00	Other		
Rentals			Weatherford	925 00	11,268 00
Wireline					
			Contingency		
			Total Daily Cost:	5035 00	46,483

Citation Oil & Gas Corp.

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 11-27-06

Rpt #: 5 AFE #:

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective:

Current Activity:

Details of Past 24 Hrs Operations

Set pKr @ 3491'. Waiting on Halliburton.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	5000 00	22,798 00	Cementing:		
Labor			Supervision:		
Trucking 2 Trips	3162.50	6307 00	Tbg, Rods, Pumps		
Mud & Water	—	2000 00	Other		
Rentals			Weatherford	2000 00	10,343 00
Wireline					
			Contingency		
			Total Daily Cost:	10,162 00	41,448

Citation Oil & Gas Corp.

DAILY WORKOVER REPORT

Field: Upper Valley unit Well: #33 Date: 11-18-06

Rpt #: 4 AFE #:

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: Csg leak

Current Activity:

Details of Past 24 Hrs Operations

Finished RIH Set plug @ 5505' came up to 5473' Set pkr tested to 1000 psi @. pump down csg had a rate of 2½ bpm @ 500 psi. pulled up to 3234' pump down tbg leak back side held. RIH 31 stands out 3550' leak, 28 out tbg leak csg held 3725'. from 27 to 24 stands out pkr wouldnt Set 3787' to 3974'. 23 out 4041' pump down tbg test @ csg - leak. leak is between 3725-4041' 316'. SD waiting on cement. Sent rig Crew home.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	4290 00	17,798	Cementing:		
Labor			Supervision:		
Trucking	—	3145. 00	Tbg, Rods, Pumps		
Mud & Water	2000 00	2000 00	Other		
Rentals			Weatherford	925 00	8343. 00
Wireline					
			Contingency		
			Total Daily Cost	7715 00	31,781 00

Citation OIL & GAS CORP.

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 11-17-06

Rpt #: -3- AFE #:

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: CSG leak

Current Activity:

Details of Past 24 Hrs Operations

pooh with bit + Scraper loading down 3½" tubing. plu bridge plug + pkr RIH with 2⅞ 10RD 150 Jts IN SION

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	4891 00	13,508 00	Cementing:		
Labor			Supervision:		
Trucking	—	3145 00	Tbg, Rods, Pumps		
Mud & Water			Other		
Rentals			Weatherford	7418 00	7418 00
Wireline					
			Contingency		
			Total Daily Cost:	12,309 00	24,071

Citation OIL & GAS CORP.

DAILY WORKOVER REPORT

Field: Upper Valley Unit Well: #33 Date: 11-16-06

Spt #: 2 AFE #:

Rig #: 9 Reported By: Gary Harding AFE Amount:

Objective: find Csg leak

Present Activity:

Details of Past 24 Hrs Operations

pooh laid down packer Baker lockset, plug bit + Scraper RIH, pooh laiding down 3½" tubing, moved rig pump, pit tank, Bop. from #16 to #33. loaded 55 JTS tubing from #2 yard to #33.

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost	4328 **	8617 **	Cementing:		
			Supervision:		
	3145 **	3145 **	Tbg, Rods, Pumps		
			Other		
			Contingency		
			Total Daily Cost:	7473	11,762 **

Citation
OIL & GAS CORP

DAILY WORKOVER REPORT

Field: Upper Valley unit Well: #33 Date: 11-15-06

Rpt #: 1 AFE #:

Rig #: 9 Reported By: Gary Hardinge AFE Amount:

Objective: find leak

Current Activity:

Details of Past 24 Hrs Operations

pressure on #6 held at 300 psi over night. put chart on for 1hr tested good fax Chart to Chad. Riged down and moved to #33 riged up pooh 40 Stands. electrical wire is banded to tubing. Tubing has 1" of Scale on inside of tubing + getting worse as we come out. Tubing leak good on outside

Daily Well Cost

Description	Day Cost	Cum. Cost	Description	Day Cost	Cum. Cost
Rig Cost:	4289.00	4289.00	Cementing:		
Labor			Supervision:		
Trucking			Tbg, Rods, Pumps		
Mud & Water			Other		
Rentals					
Pipeline					
			Contingency		
			Total Daily Cost	4289.00	4289.00
			Cumulative Cost:		

CALIBRATED CHARTS
BATAVIA NY

4V4 33

METER NUMBER
11:46
TIME PUT ON
AM
DATE PUT ON
10/17/2011

43017300 47
36S 1E 36

TUBE & ORIF. SIZE
11:51
TIME TAKEN OFF
AM
DATE TAKEN OFF
10

MW-MP 2000

SIGNED _____

PRINTED IN U.S.A.

12 NOON 1 P.M. 2 P.M. 3 P.M. 4 P.M. 5 P.M. 6 P.M. 7 P.M. 8 P.M. 9 P.M. 10 P.M. 11 P.M. 12 MIGHT 1 A.M. 2 A.M. 3 A.M. 4 A.M. 5 A.M. 6 A.M. 7 A.M. 8 A.M. 9 A.M. 10 A.M. 11 A.M.

200 400 600 800 1000 1200 1400 1600 1800