

FL

Entered in MID File
Location Map Pinned
Card Indexed

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed 6-5-69
OW..... WW..... TA.....
GW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

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

*Documentation Unit
Neutron Proximity*



March 31, 1969

C
Mr. Rodney A. Smith
U. S. Geological Survey
Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah 84111

Re: Supplemental Plan of Development
for 1969, Upper Valley Unit
Garfield County, Utah

O
Gentlemen:

In compliance with the terms of the Upper Valley Unit Agreement, Tenneco Oil Company, as Unit Operator, submits for your information and approval its Supplemental Plan of Development for the Second Quarter of 1969.

P
THM
COPI P
894
Future Development

We plan to drill one additional Kaibab development well, Upper Valley Unit No. 19. It will be located NW/4 NW/4 Section 6-T37S-R2E, Garfield County, Utah.

Effective Date

Y
This supplemental plan of development will be effective April 1, 1969.

Yours very truly,

TENNECO OIL COMPANY

C. W. Nance
District Production Superintendent

GAF:kew

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE*
(Other ins. on reverse)

Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

3. NAME OF OPERATOR
 Tenneco Oil Company

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

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface NW/4 NW/4 360' FNL & 735' FWL
 At proposed prod. zone *NE NW NW*

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

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

8. NO. OF ACRES IN LEASE
 960 ✓

9. NO. OF ACRES ASSIGNED TO THIS WELL
 80

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

11. PROPOSED DEPTH
 7200 ✓

12. ROTARY OR CABLE TOOLS
 Rotary

13. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7369 GR

14. APPROX. DATE WORK WILL START*
 Upon approval

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	9-5/8" ✓	36#	2950 ✓	500 sx ✓
7-7/8"	5-1/2" ✓	15.5#	7200 ✓	370 sx ✓

above well to be drilled to approximately 7200' T.D., Log, run casing, as shown above, and complete as an oil well. Conduct potential test

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

43-017-30013

DATE *3-3-69*

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.

SIGNED *O.W. Nance* TITLE District Prod. Supt. DATE 3/31/69

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

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

*See Instructions On Reverse Side

Wm

COMPANY TENNECO OIL COMPANY

Well Name & No. UPPER VALLEY No. 19

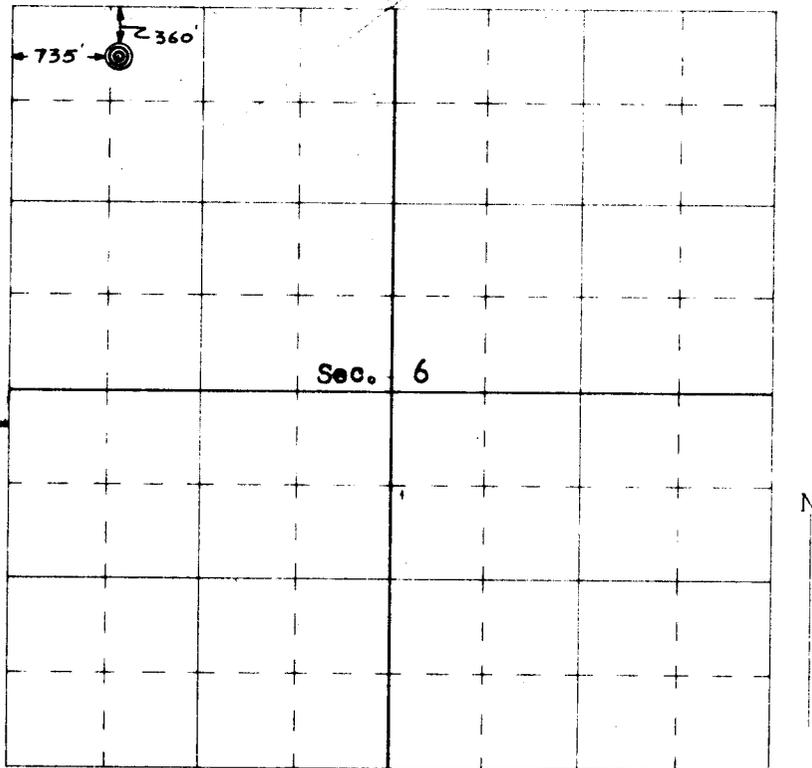
Lease No. _____

Location 360 FEET FROM THE NORTH LINE & 735 FEET FROM THE WEST LINE

Being in N $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$

Sec. 6, T37S, R2E, S.L.M., Garfield, County, Utah

Ground Elevation 7369' ungraded



Scale -- 4 inches equals 1 mile

Surveyed 25 March

19 69

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.

Seal:

Ernst Engineering Co.
Durango, Colorado



Registered Professional
Engineer and Land Surveyor.

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

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLI

(See instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. Utah 019378					
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME Upper Valley Unit					
3. ADDRESS OF OPERATOR 1200 Lincoln Tower Building, Denver, Colorado 80203		8. FARM OR LEASE NAME					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 360' FNL, 735' FWL, NW NW At top prod. interval reported below At total depth same		9. WELL NO. #19					
14. PERMIT NO.		DATE ISSUED					
15. DATE SPUDDED 4/28/69		16. DATE T.D. REACHED 5/21/69					
17. DATE COMPL. (Ready to prod.) 6/5/69		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7380' KB					
19. ELEV. CASINGHEAD 7369' GR		10. FIELD AND POOL, OR WILDCAT Upper Valley Field					
20. TOTAL DEPTH, MD & TVD 7157'		21. PLUG, BACK T.D., MD & TVD 7145'					
22. IF MULTIPLE COMPL., HOW MANY* --		23. INTERVALS DRILLED BY →					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7026-42 Kaibab		25. WAS DIRECTIONAL SURVEY MADE Yes					
26. TYPE ELECTRIC AND OTHER LOGS RUN		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		
16"	65#	600'	20"	300 SX	-		
8 5/8"	24#	2840'	13 3/4"	400 SX	-		
2 1/16"	3.25#	2737'	Parasite tubing		-		
5 1/2"	17# & 15.5#	7157'	7 7/8"	250 SX	-		
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 1/2"	7120'	
31. PERFORATION RECORD (Interval, size and number) 7026-42 w/2 holes/ft.				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED						
see perms	1000 gal acid						
	75 bbls. crude						
	2000 gal. 28% HCl						
33.* PRODUCTION							
DATE FIRST PRODUCTION 5/29/69		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 120 hp Reda --- Pumping				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 6/5/69	HOURS TESTED 15	CHOKE SIZE -	PROD'N. FOR TEST PERIOD →	OIL—BBL. 215	GAS—MCF. TSTM	WATER—BBL. 392	GAS-OIL RATIO TSTM
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL. 344	GAS—MCF. TSTM	WATER—BBL. 627	OIL GRAVITY-API (COER.) 26.9	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used on lease						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Dale A. Cook		TITLE Production Clerk				DATE 6/10/69	

*(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.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Navajo Chinle Shinarump Moenkopi Kaibab	3377 5448 5996 6125 6855	5448 5996 6125 6855 TD CORES: #1 #2 #3	7005-7037 Rec. 21', 20' Dolomite, dense, no show. 1' Dolomite, fair porosity, bleeding oil. Lost bottom 11' of core. 7037-7096 Rec. 59', 18' Dolomite, tan, sucrosic, bleeding oil, 41' Dolomite, tan, tight, no show. 7097-7157 Rec. 60', 25' Dolomite, grey, tight, trace of porosity w/oil stain, 35' sandstone-dolomite w/heavy oil saturation, 20' w/no show.
38. GEOLOGIC MARKERS			
NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Navajo Chinle Shinarump Moenkopi Kaibab	3377 5448 5996 6125 6855		

JUN 13 1969

Schwarz

FORM OGC-8-X

FILE IN QUADRUPPLICATE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Upper Valley Unit, Well #19
Operator Tenneco Oil Company Address 1200 Lincoln Tower Bldg. Phone 292-9920
Contractor _____ Address _____ Phone _____
Location NW 1/4 NW 1/4 Sec. 6 T. 37 X R. 2 E Garfield County, Utah
S XX

Water Sands:

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

(Continue on reverse side if necessary)

Formation Tops:

Remarks:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TYPE
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-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 GAS WELL OTHER

7. UNIT AGREEMENT NAME

Upper Valley

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.

#19

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

360' FNL and 735 FWL, NW NW

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

Sec. 6, T37S, R2E

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

7369 GR

12. COUNTY OR PARISH 13. STATE

Garfield Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

(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.)*

5/23/69 - Ran 217 joints 5 1/2" casing, set at 7157', cemented with 250 sacks cement.

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

SIGNED

Don H. Carl

TITLE Production Clerk

DATE

6/11/69

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-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 []
2. NAME OF OPERATOR: Tenneco Oil Company
3. ADDRESS OF OPERATOR: 1200 Lincoln Tower Bldg. - Denver, Colorado 80203
4. LOCATION OF WELL: 360' F/NL, 735' F/WL, NW NW
5. LEASE DESIGNATION AND SERIAL NO.: Utah 019378
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME: Upper Valley Unit
9. WELL NO.: 19
10. FIELD AND POOL, OR WILDCAT: Upper Valley Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 6, T-37-S, R-2-E
12. COUNTY OR PARISH: Garfield
13. STATE: Utah
14. PERMIT NO.
15. ELEVATIONS: 7380 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF [], FRACTURE TREAT [], SHOOT OR ACIDIZE [], REPAIR WELL [], (Other) []
PULL OR ALTER CASING [], MULTIPLE COMPLETE [], ABANDON* [], CHANGE PLANS []
SUBSEQUENT REPORT OF: WATER SHUT-OFF [X], FRACTURE TREATMENT [], SHOOTING OR ACIDIZING [X], (Other) []
REPAIRING WELL [], ALTERING CASING [], ABANDONMENT* []
(NOTE: Report results of multiple completion on Well Completion or Recombination 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.)*
4/28/69 - Spudded, Ran 20 jts of 16" 65# H-40 casing set at 600 ft w/300 sks cement - circulated conductor casing.
5/7/69 - Drilled to 2840', ran 87 jts of 8-5/8" 24# J-55 casing with 500 sks cement, circulated.
5/21/69 - Drilled to T. D. of 7157. (Cored 7005' to 7037', 7037' to 7096' and 7097' to 7157') logged well
5/28/69 - Perforated 7026'-42' with 2 holes per ft. Acidized with 2000 gals 28% 5 BPM acid. Ran 2-7/8" NEUE landed 7120'.

18. I hereby certify that the foregoing is true and correct
SIGNED: [Signature] TITLE: Sr. Production Clerk DATE: 7-21-69

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLE COPY
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

U-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 GAS WELL OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

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

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

360' F/NL and 735' F/WL

7. UNIT AGREEMENT NAME
Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.
19

10. FIELD AND POOL, OR WILDCAT
Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 6, T-37-S, R-2-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7380 KB

12. COUNTY OR PARISH **Garfield** 13. STATE **Utah**

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

NOTICE OF INTENTION TO:

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

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

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

Move in service unit, pull tubing and Reda pump. Set Model R Packer at 7000', acidize perforations 7026' - 46' w/2000 gals 15% HCL w/A130 inhibitor. Swab. Pull Packer, Run Reda pump and tubing. Test and put well on production.

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

SIGNED

G. U. [Signature]

TITLE

Sr. Production Clerk

DATE

7-15-71

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPL
(Other instructions
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

PT

5. LEASE DESIGNATION AND SERIAL NO.

U-019378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.

19

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 6, T-37-S, R-2-E

12. COUNTY OR PARISH

Garfield

13. STATE

UTAH

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

Suite 1200 Lincoln Tower Building, Denver, Colorado 80203

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

At surface

360' F/NL and 735' F/WL

14. PERMIT NO.

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

7380' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

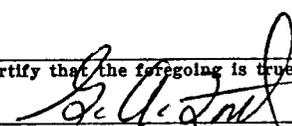
Moved in Service Unit 7-11-71, pulled tubing and Reda Pump. Set Model R Packer at 6985', acidized perforations 7026-46' w/1000 gals 15% HCL w/A-130 Inhibitor, swabbed, Run 222 jts of 2-7/8" NUE tubing, set at 6906 & Reda pump to 6989'.

Well tested 7-13-71 26 BOPD 1574 BWPD

Well tested prior to acid Job 85 BOPD 1040 BWPD

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

SIGNED



TITLE

Sr. Production Clerk

DATE

8-6-71

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



REPORT OF WATER ANALYSIS

RECEIVED
SEP 8 1976

Company **TENNECO OIL COMPANY**
ESCALANTE, UTAH
DIST. 15

Date **17-Feb-76**
Analysis No. **76V242, N**
Sampling Date **2-3-76**
Date Sample Rec'd. **2-11-76**

Sample Marked **Upper Valley Unit**
TENNECO #19

Karst formation
NW, NW, Sec 6, T37S, R2E

DISSOLVED SOLIDS

RESULTS AS COMPOUNDS

Cations	mg/l	meq/l		mg/l
Sodium, Na (calc.)	2940.	128.	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	3860.	180.		
Anions				
Chloride, Cl	3520.	99.2	as NaCl	5800.
Sulfate, SO ₄	2200.	45.8	as Na ₂ SO ₄	3250.
Carbonate, CO ₃			as CaCO ₃	
Bicarbonate, HCO ₃	2140.	35.0	as CaCO ₃	1750.
Sum of Anions	7850.	180.		
Dis. Solids (calc.)	11700.			
Total Iron, Fe	1.0	.1	as Fe	1.0
Acid to Phen., CO ₂	101.	2.3	as CaCO ₃	230.

OTHER PROPERTIES

Ph (units) **7.5**
Spec. Gravity (g/ml) **1.004**
Turbidity (jtu) **8.0**

CaCO₃ STABILITY INDEX

@ 70° F.
@ 120° F.
@ 160° F.
Method of Stiff & Davis

3 D. G. HASS
H. E. KING

Remarks:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-019378
2. NAME OF OPERATOR Tenneco Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO 80155		7. UNIT AGREEMENT NAME Upper Valley Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 36' FNL, 935' FWL		8. FARM OR LEASE NAME
14. PERMIT NO.	15. ELEVATIONS (Show whether OF, ST, OR, etc.) 7370' GR	9. WELL NO. 19
		10. FIELD AND POOL, OR WILDCAT Upper Valley
		11. SEC., T., R., M., OR S.E.C. AND SURVEY OR AREA Sec. 6, T37S, R2E
		12. COUNTY OR PARISH 13. STATE Garfield UT

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

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

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

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

Tenneco requests permission to convert the referenced well to a water injection well according to the attached detailed procedure.

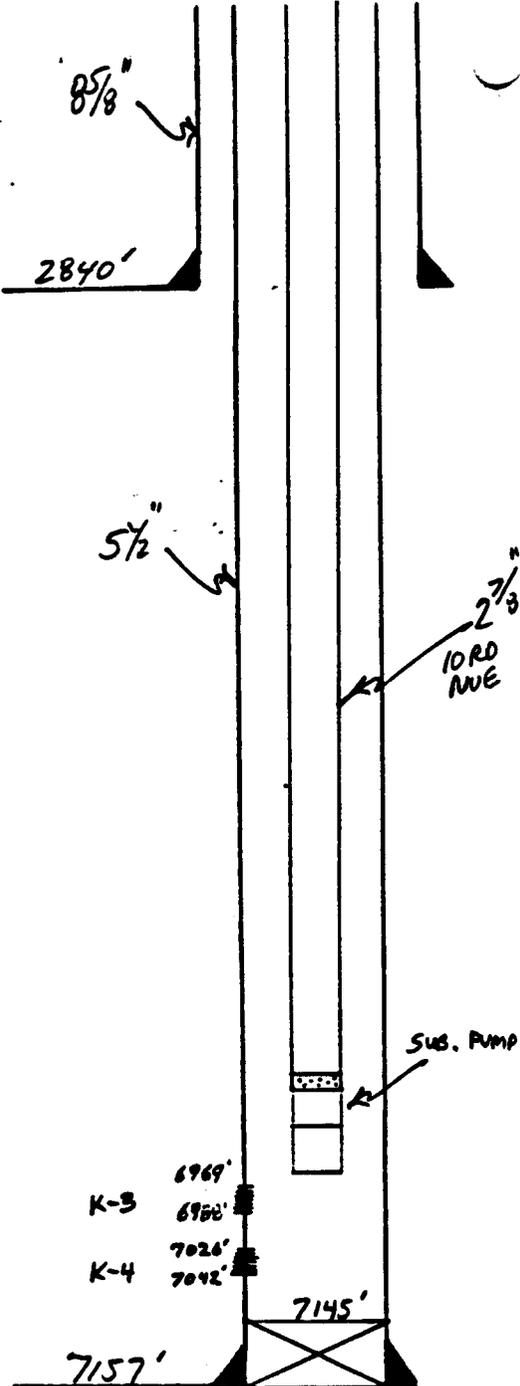
18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Sr. Regulatory Analyst, DATE May 13, 1985

(This space for Federal or State office use)

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

*See Instructions on Reverse Side



4624/3
 LEASE Upper Valley Unit
 WELL NO. 19

CASING:

8 5/8"OD, 24 LB, J-55 CSG.W/ 500 SX

TOC @ surf . HOLE SIZE 13 3/4" DATE 5/1/69

REMARKS _____

5 1/2"OD, 15.5 LB, J-55 CSG.W/ 250 SX

TOC @ 6890 . HOLE SZ. 7-13/16 DATE 5/22/69

REMARKS TOC by CBL

_____"OD, _____ LB, _____ CSG.W/ _____ SX

TOC @ _____ . HOLE SIZE _____ DATE _____

REMARKS _____

TUBING:

2 7/8"OD, 6.5 LB, J-55GRADE, 10 RD, NUE CPLG

LANDED @ 6842' . SN, PACKER, ETC. _____

_____"OD, _____ LB, _____ GRADE, _____ RD, _____ CPLG

LANDED @ _____ . SN, PACKER, ETC. _____

PUMP Submersible RODS _____ ANCHOR _____
 ND 2000; 200 HP

DETAILED PROCEDURE:

1. MIRUSU. NDWH. NUBOPE.
2. POOH w/ 2-7/8" 10RD tbg and sub pump assy.
3. Lay down sub. pump assy.
4. RIH w/ 2-7/8" 10 RD tbg, 5-1/2" csg scraper, and 4-3/4" bit.
5. Tag PBD and POOH w/tbg, bit & scraper laying down.
6. PU & RIH w/3-1/2" 8RD EUE duolined tbg and Baker 5-1/2" 'R-3' pkr. Set pkr @ 6920'. NDBOP. NUWH.
7. Load BS w/corrosion inhibited wtr.
8. Acidize K-3 and K-4 down tbg w/2500 gal 15% HCL @ 5 BPM.
9. NU Flowline & P.O.I.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on
verse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-019378
2. NAME OF OPERATOR Tenneco Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO 80155		7. UNIT AGREEMENT NAME Upper Valley Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 36' FNL, 935' FWL		8. FARM OR LEASE NAME
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, HT, GR, etc.) 7370' GR	9. WELL NO. 19
		10. FIELD AND POOL, OR WILDCAT Upper Valley
		11. SEC., T., R., E., OR S.E., AND SURVEY OR AREA Sec. 6 T3S R2E
		12. COUNTY OR PARISH Garfield
		13. STATE UT

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

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

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

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

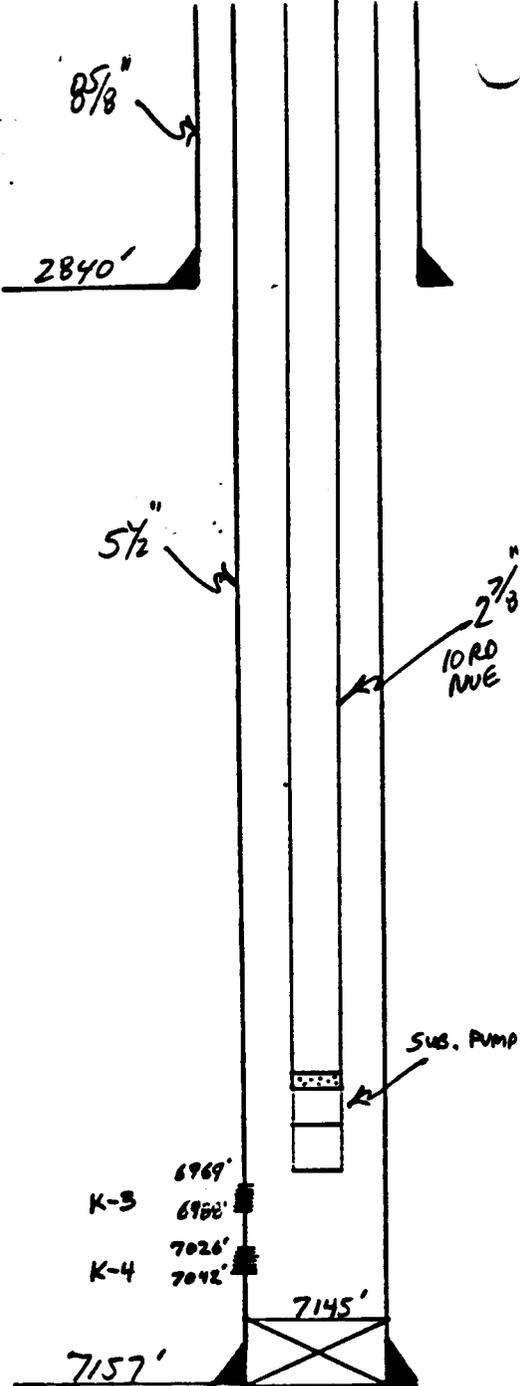
Tenneco requests permission to convert the referenced well to a water injection well according to the attached detailed procedure.

18. I hereby certify that the foregoing is true and correct
SIGNED Scott McKinney TITLE Sr. Regulatory Analyst, DATE May 13, 1985

(This space for Federal or State office use)

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

*See Instructions on Reverse Side



4624/3

LEASE Upper Valley Unit

WELL NO. 19

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8 5/8"OD, 24 LB, J-55 CSG.W/ 500 SX

TOC @ surf . HOLE SIZE 13 3/4" DATE 5/1/69

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5 1/2 "OD, 15.5 LB, J-55 CSG.W/ 250 SX

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REMARKS TOC by CBL

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REMARKS _____

TUBING:

2 7/8 "OD, 6.5 LB, J-55GRADE, 10 RD, NUE CPLG

LANDED @ 6842' . SN, PACKER, ETC. _____

_____"OD, _____ LB, _____ GRADE, _____ RD, _____ CPLG

LANDED @ _____ . SN, PACKER, ETC. _____

PUMP Submersible RODS _____ ANCHOR _____
ND 2000; 200 HP

DETAILED PROCEDURE:

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9. NU Flowline & P.O.I.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

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

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Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
36' FNL, 935' FWL

RECEIVED
MAY 20 1985
DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-019378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.
19

10. FIELD AND POOL, OR WILDCAT
Upper Valley

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Sec. 6, T37S, R2E

12. COUNTY OR PARISH
Garfield

13. STATE
UT

14. PERMIT NO.

15. ELEVATIONS (Show whether SP, ST, OR SURF)
7370' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
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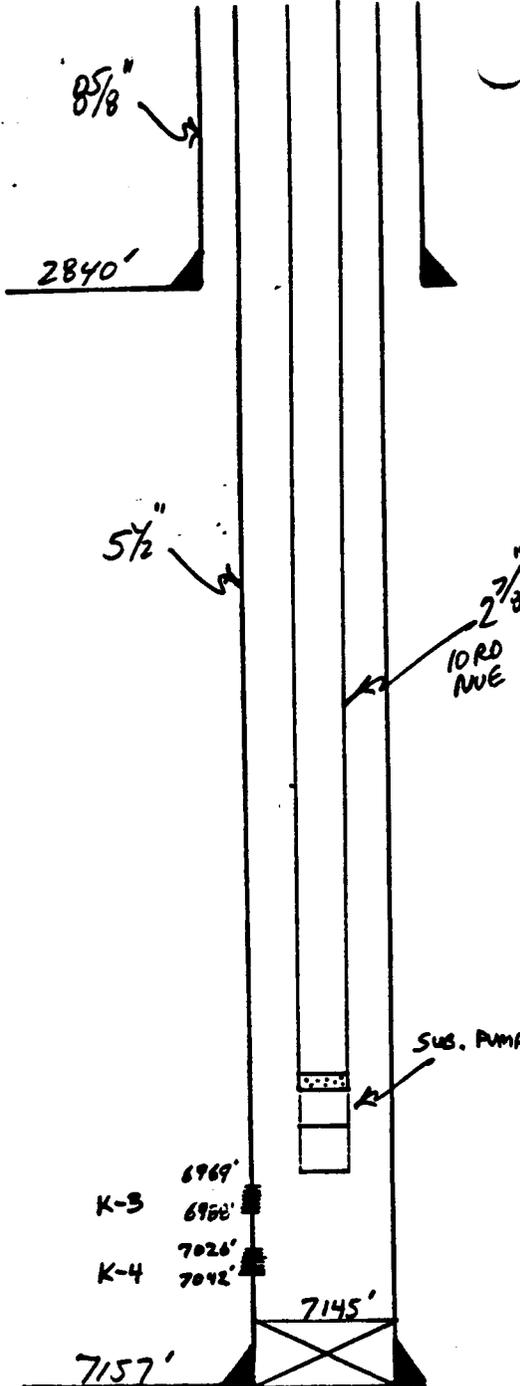
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18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Sr. Regulatory Analyst, DATE May 13, 1985

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

*See Instructions on Reverse Side

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



4624/3

LEASE Upper Valley Unit

WELL NO. 19

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8 5/8"OD, 24 LB, J-55 CSG.W/ 500 SX

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9. NU Flowline & P.O.I.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 24, 1985

Mr. Scott McKinney
Tenneco Oil Company
P.O. Box 3249
Englewood, Colorado 80155

Dear Mr. McKinney,

RE: Application to Convert Upper Valley Unit #19, Section 6, T37S,
R2E, Garfield County, Utah, to a Water Injection Well.

Pursuant to the sundry notice recently received by this Division for conversion of the above referenced well to a Class II water injection well, please supply the information required by Rule I-5 (copy enclosed). Upon receipt of a complete and technically adequate application public notice will be given and approval given if appropriate.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt

Enclosures

mfp
0156U-6

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 & RULE I-4)

FORM NO. DOGM-UIC-1
 (Revised 1982)

IN THE MATTER OF THE APPLICATION OF

Tenneco Oil Company
 ADDRESS P.O. Box 3249
Englewood, CO ZIP 80155
 INDIVIDUAL PARTNERSHIP CORPORATION X
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
 INJECT FLUID INTO THE Upper Valley WELL #19
 SEC. 6 TWP. 37S RANGE 2E
Garfield COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL	<input checked="" type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE I-4)	<input type="checkbox"/>

Federal Lease # 71-019378

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Upper Valley Unit</u>	Well No. <u>19</u>	Field <u>Upper Valley</u>	County <u>Garfield</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NW-NW</u> Sec. <u>6</u> Twp. <u>37S</u> Rge. <u>2E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>9/74</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>4500'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	State Well <u>Oil</u>	
Location of Injection Source(s) <u>Upper Valley Unit</u>	Geologic Name(s) and Depth of Source(s) <u>Kaibab Formation</u>		
Geologic Name of Injection Zone <u>Kaibab</u>	Depth of Injection Interval <u>6069'</u> to <u>7042'</u>		
a. Top of the Perforated Interval: <u>6969'</u>	b. Base of Fresh Water: <u>4500'</u>	c. Intervening Thickness (a minus b) <u>2469'</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <u>YES</u> NO			
Lithology of Intervening Zones <u>Limestone & Shale</u>			
Injection Rates and Pressures Maximum <u>6000</u> B/D <u>250</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. <u>BLM, Cedar City, Utah also US Forest Service</u>			

State of Colorado

County of Arapahoe

Harry Hufft
 Applicant

Before me, the undersigned authority, on this day personally appeared Harry Hufft, Prod. Mgr
 known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on
 oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated
 therein, and that said report is true and correct.

Subscribed and sworn to before me this 4th day of June, 19 85

SEAL

My commission expires 6-24-85

Charlotte Flanagan
 Notary Public in and for Arapahoe County

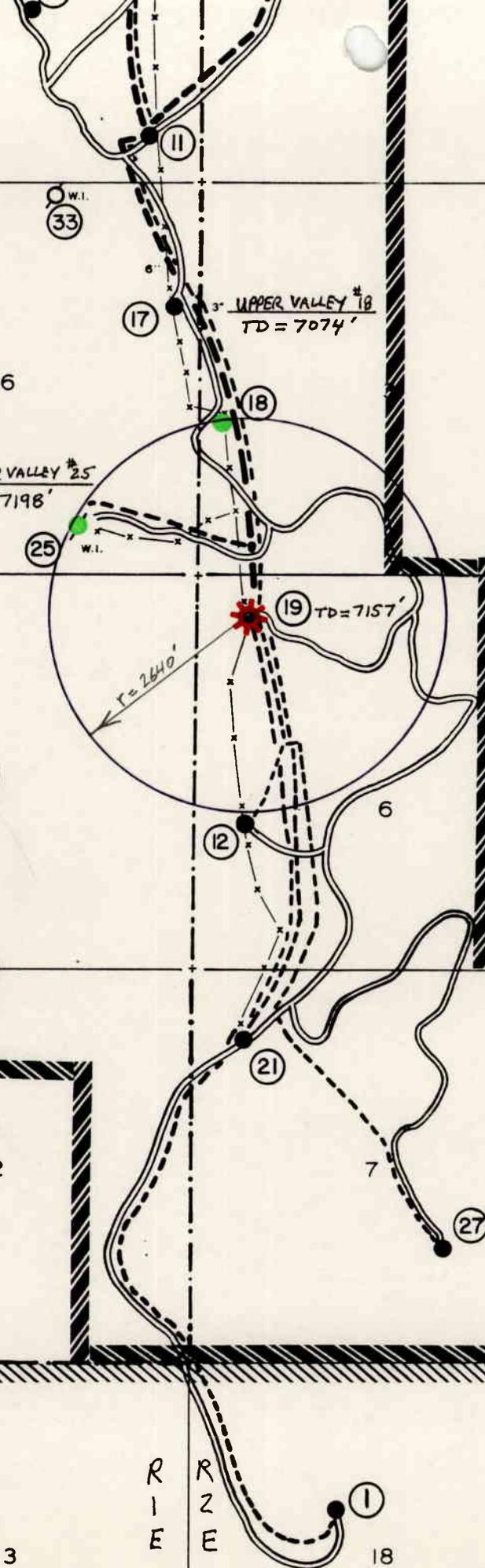
(OVER)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. 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.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the 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 may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. 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.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	8-5/8"	2840'	500 sxs	Surface	Returns
Intermediate	N/A				
Production	5-1/2"	7157'	250 sxs	6800'	CBL
Tubing	3-1/2"	6920'	Name Type - Depth of Tubing Packer Baker Lok-Set @ 6920'		
Total Depth 7157'	Geologic Name - Inj. Zone Kaibab	Depth - Top of Inj. Interval 6969'	Depth - Base of Inj. Interval 7042'		



UPPER VALLEY #18
TD = 7074'

UPPER VALLEY #25
T.D. = 7198'

19 TD = 7157'

r = 2640'

T36S
T37S

T36S
T37S

① OPERATOR OF WELLS
WITHIN 1/2 MILE RADIUS
OF PROPOSED CLASS II
INJECTION IS TRAWCO OIL.

② SURFACE OWNER
OF LAND WITHIN 1/2 MILE RADIUS IS BLM AND
USFS.

GARFIELD COUNTY
UTAH

R
1
E
R
2
E

1

18

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

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

COUNTY
LEASE NO.

API NO. _____

840 Acres
N

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

COUNTY Garfield SEC. 6 TWP. 37S RGE. 2E

COMPANY OPERATING Tenneco Oil E & P

OFFICE ADDRESS P.O. Box 3249

TOWN Englewood STATE CO ZIP 80155

LEASE NAME Upper Valley WELL NO. 19

DRILLING STARTED 5-3-69 DRILLING FINISHED 5-29-69

DATE OF FIRST PRODUCTION 6-5-69 COMPLETED 6-5-69

WELL LOCATED NE 1/4 NW 1/4

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

ELEVATION DERRICK FLOOR 7381' GROUND 7370'

①									

S
Locate Well Correctly
and Outline Lease

TYPE COMPLETION

Single Zone Single

Multiple Zone _____

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Kaibab	6969'	7042'			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
8-5/8"	24#	K-55	2840'		500	2840'	Surface
5-1/2"	15.5#	K-55	7157'		250	357'	6800'

TOTAL DEPTH 7157'

PACKERS SET
DEPTH 6920'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

1 2 3

FORMATION	Kaibab		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Convert to Inj Well		
PERFORATED	2 JSPF		
	7026-42'		
INTERVALS	6969-88'		
ACIDIZED?	2000 gal 28% HCl		
FRACTURE TREATED?	N/A		

INITIAL TEST DATA

Date	5-28-69		
Oil, bbl./day	215 ROPD		
Oil Gravity	28 ⁰		
Gas, Cu. Ft./day	None	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	---		
Water-Bbl./day	400 BWPD		
Pumping or Flowing	Pumping		
CHOKE SIZE	---		
FLOW TUBING PRESSURE	---		

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

Telephone (303)740-4800 Harry Hufft, Prod. Mgr.

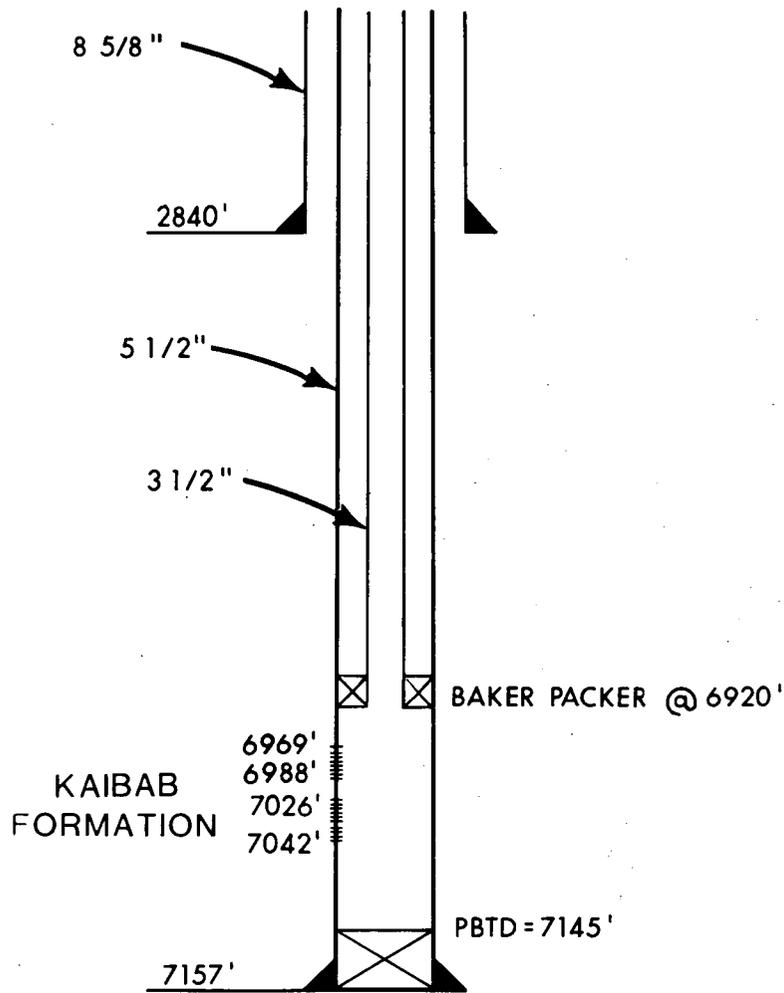
Name and title of representative of company

Date: 6/1/84

WELLBORE SCHEMATIC - UPPER VALLEY UNIT # 19

5/29/85

(NOT TO SCALE)



CEMENT TOPS

8 5/8" ⇒ SURFACE

5 1/2" ⇒ 6800' BY CBL

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.

UIC RULE 1-5b
UPPER VALLEY UNIT

ITEM NO.

4

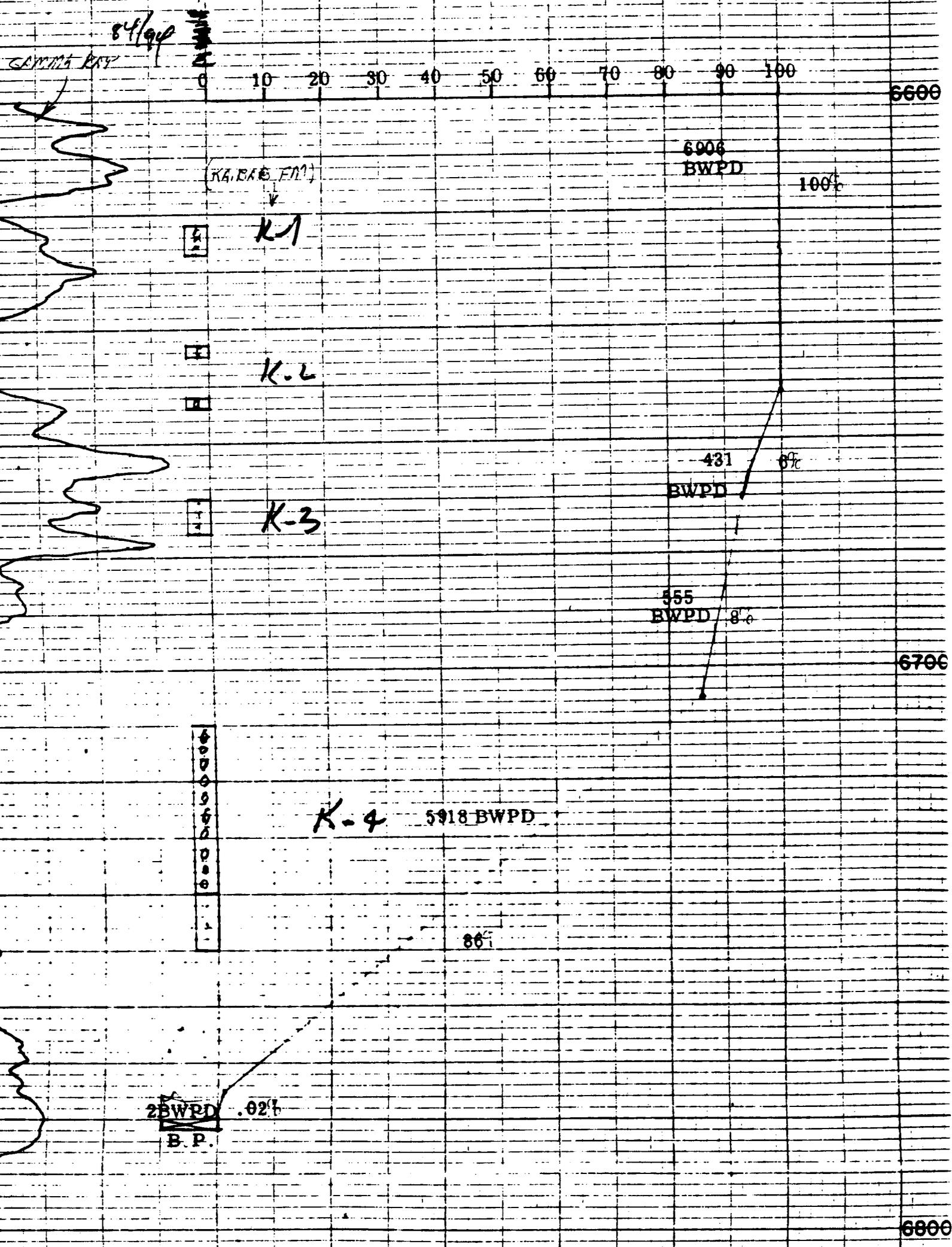
The Kaibab formation at the Upper Valley Unit has an average fracture gradient of .348 psi/ft. Past radioactive injection profile surveys run on selected injection wells in the field indicate that at injection rates as high as 6400 BPD, hydraulic fracturing upward above the Kaibab does not take place, 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.

UVU #5

TENNCO OIL
UPPER VALLEY UNIT
WELL NO. 5
GARFIELD CO. WYOM.

FLUID VELOCITY LOG (F/A)

Percentage of Flow in Barrels of Water Per Day



TEANNECO OIL
UPPER VALLEY UNIT
WELL NO. 16
GREENHOLD, CO. UTAH

FLUID VELOCITY LOG (R/A)

6000

GAMMA
RAY

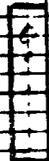
Percentage of Flow in Barrels of Water Per Day

K-1
FM



K-1

5000

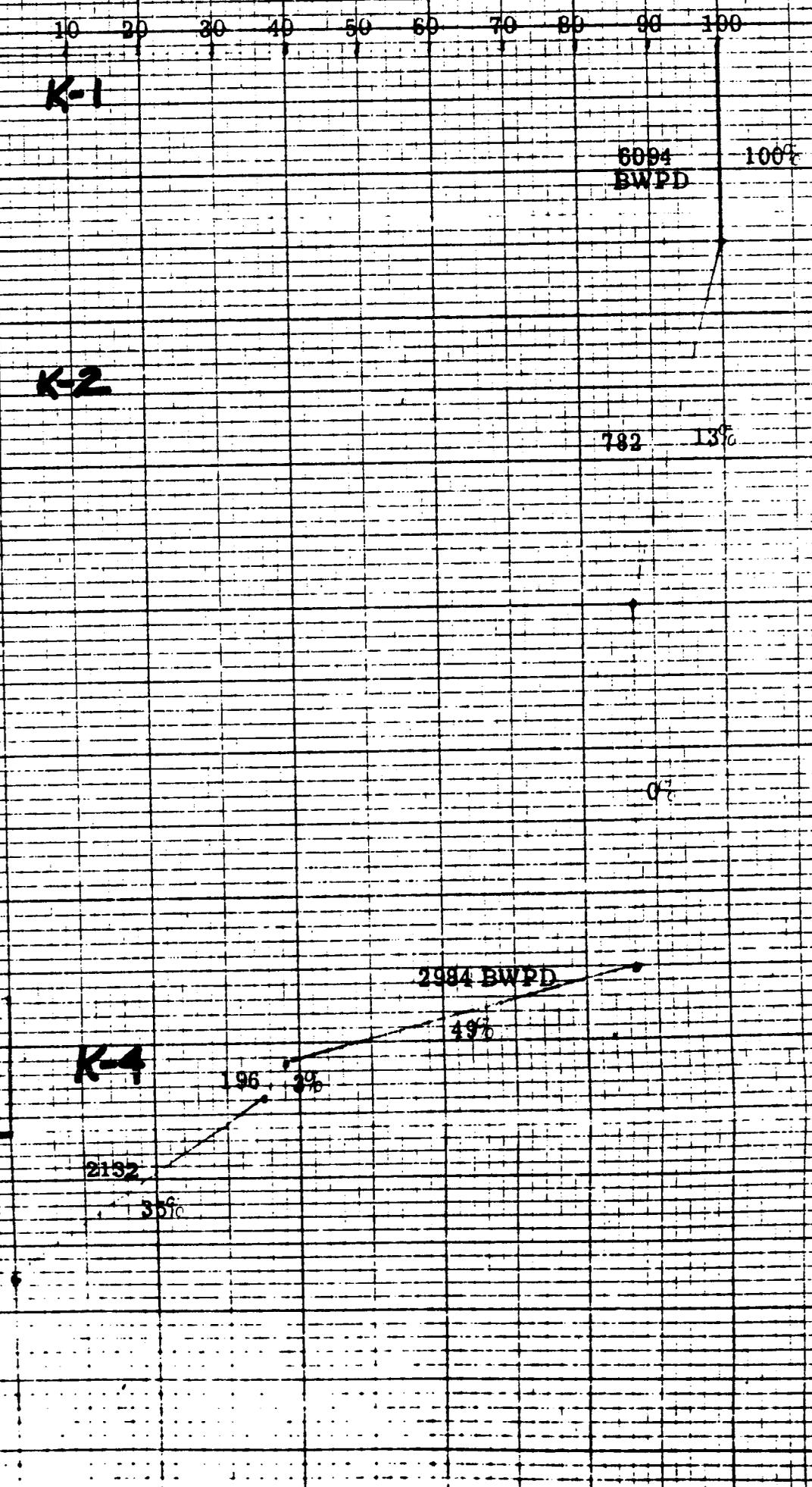


K-2

5200



K-4



ENNICO OIL
UPPER VALLEY UNIT
WELL NO. 26
GARFIELD CO. UTAH

GAMMA
RAY

INJECTIVITY
PROFILE (R/A)

DENSITY

K1

6800'

WAGO ANALYSIS

K2

6850'

K3

13% = 725 B.P.D.

6900'

COMMUNICATED

K4

6950'

7000'

15%	=	837	B.P.D.
10%	=	386	B.P.D.
5%	=	725	B.P.D.
13%	=	725	B.P.D.
27%	=	279	B.P.D.
7%	=	781	B.P.D.
7%	=	390	B.P.D.
7%	=	390	B.P.D.
2%	=	112	B.P.D.
6%	=	336	B.P.D.
1%	=	55	B.P.D.
5%	=	167	B.P.D.
7%	=	390	B.P.D.

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.



CORE LABORATORIES, INC.

Petroleum Reserve Engineering

DALLAS, TEXAS

WATER ANALYSIS

Page 2 of 8
File IWTL-71107

Company Tenneco Oil Company Well Name Sample No. 2

Formation Kaibab Depth Sampled From Satellite F. W. K. O.

Location Field Upper Valley County Garfield State Utah

Date Sampled Date Analyzed 11-3 to 11-4, 1971 Analyst RLC

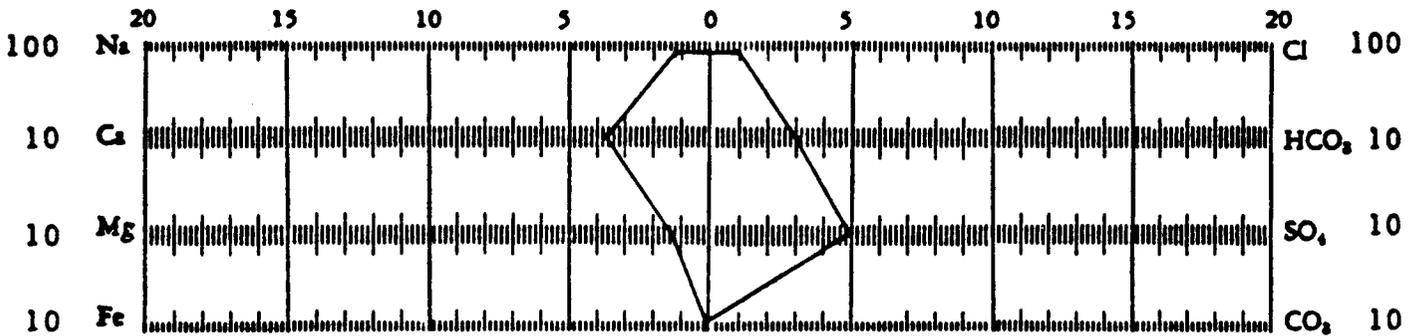
Total Dissolved Solids 11,604 mg/L calculated Specific Gravity 1.0074 @ 74 F.

Resistivity .750 ohm-meters @ 74 F. measured Hydrogen Sulfide present - 3.5 ppm

pH 6.7 @ 74 F.

Table with 6 columns: Constituents, meq/L, mg/L, Constituents, meq/L, mg/L. Rows include Sodium, Calcium, Magnesium, Iron, Barium, Chloride, Bicarbonate, Sulfate, Carbonate, Hydroxide.

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



Scale: meq/L

Table with 2 columns: Actual Plugging Solids, Mg/L. Rows include Total Solids, Organic, Iron Sulfides, Calcium as CaCO3, Magnesium as MgCO3, Sulfate as SO4, Insoluble Siliceous Residue.

Tenneco Oil
Exploration and Production
A Tenneco Company

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

June 4, 1985

RECEIVED

JUN 10 1985

**DIVISION OF OIL
GAS & MINING**

State of Utah
Oil, Gas & Mining Division
355 W. North Temple, 3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

**RE: Application for Water Injection
Upper Valley Unit #19
NW NW, Sec. 6, T37S, R2E
Garfield County, Utah**

Gentlemen:

I have enclosed an application to convert the referenced well into a Class II water injection well. If you have any question or need additional information please call me at (303) 740-2589.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in cursive script that reads "Ken Russell".

Ken Russell
Environmental Coordinator

KR/cmf:1804a

Enclosure

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

---oo0oo---

IN THE MATTER OF THE APPLICATION : CAUSE NO. UIC-063
OF TENNECO OIL COMPANY, FOR :
ADMINISTRATIVE APPROVAL OF THE :
UPPER VALLEY UNIT #19 WELL, :
LOCATED IN SECTION 6, TOWNSHIP 37 :
SOUTH, RANGE 2 EAST, GARFIELD :
COUNTY, UTAH, AS A CLASS II :
ENHANCED RECOVERY INJECTION WELL

---oo0oo---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED
MATTER.

Notice is hereby given that Tenneco Oil Company, P.O. Box 3249,
Englewood, Colorado, 80155, has requested administrative approval of
Upper Valley Unit #19 well, located 360' FNL to 735' FWL (NWNW) of
Section 6, Township 37 South, Range 2 East, Garfield County, Utah as a
Class II enhanced recovery injection well.

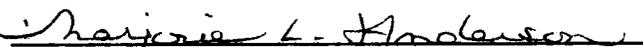
The proposed operating data for the well is as follows:

Injection Interval: Kaibab Formation 6969' to 7042'
Maximum Estimated Surface Pressure: 250 psig
Maximum Estimated Water Injection Rate: 6000 BWPD

Conditional approval of this application will be granted unless
objections are filed with the Division of Oil, Gas and Mining within
fifteen days after publication of this Notice. Objections, if any,
should be mailed to the Division of Oil, Gas and Mining, Attention:
UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350,
Salt Lake City, Utah 84180-1203.

DATED this 11th day of June, 1985.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING


MARJORIE L. ANDERSON
Administrative Assistant

UIC-063

Publication was sent to the following:

Garfield County News
Newspaper Agency

U.S. Forest Service
Bureau of Land Management - Cedar City
Tenneco Oil Company
Utah State Department of Health
U.S. Environmental Protection Agency
Bureau of Land Management - Salt Lake City


June 12, 1985



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 12, 1985

Newspaper Agency
Legal Advertizing
Mezzanine Floor
143 South Main
Salt Lake City, Utah 84111

Gentlemen:

RE: Cause No. UIC-063

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 20th day of June. In the event that said notice cannot be published by this date, please notify this office immediately by calling 538-5340 Ex. 5296.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Very truly yours,
DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script, appearing to read "Marjorie L. Anderson".

MARJORIE L. ANDERSON
Administrative Assistant

mfp
0045A



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 12, 1985

Garfield County News
Legal Advertizing
Panguitch, Utah 84759

Gentlemen:

RE: Cause No. UIC-063

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 20th day of June. In the event that said notice cannot be published by this date, please notify this office immediately by calling 538-5340 Ex. 5296.

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Very truly yours,
DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script, appearing to read 'Marjorie L. Anderson'.

MARJORIE L. ANDERSON
Administrative Assistant

mfp
0045A

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * *

Operator: Tenneco Well No. #19

County: Garfield T 37S R 2E Sec. 6 API# 49-017-30013

New Well Conversion Disposal Well Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Fluid Source Prod water

Analysis of Injection Fluid Yes No TDS 11,604

Analysis of Water in Formation to be injected into Yes No TDS "

Known USDW in area Navajo Depth 5448

Number of wells in area of review 2 Prod. 1 P&A
Water Inj. 1

Aquifer Exemption Yes NA

Mechanical Integrity Test Yes No

Date 7/74 Type

Comments: Should PT casing @ recompletion.

Reviewed by:  6/11/85

AFFIDAVIT OF PUBLICATION

County of Garfield, State of Utah, ss.

I, Marilyn Sybesma, being first duly sworn, depose and say I am the Legal Secretary of THE GARFIELD COUNTY NEWS, a weekly paper having a bona fide circulation of more than 200 subscribers in the State of Utah, published every Thursday at Garfield County, Utah.

That the notice DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES..... a copy of which is attached hereto, was published in said paper for ONE consecutive issues, the first publication having been made in the issue of the 20TH day of JUNE 1985, and the last publication in the issue of the 20TH day of JUNE 1985; that the said notice was published in the regular and entire issue of every number of said paper during the period of times and publication, and that the same was published in the newspaper proper and not in a supplement.

Marilyn Sybesma

Subscribed and sworn to before me this 20TH day of JUNE, 1985.

Cherry Lynn Niemeyer
Notary Public

My Residence is Richfield, Sevier County, Utah.

My Commission Expires November 18, 1986.

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

IN THE MATTER OF THE APPLICATION OF TENNECO OIL COMPANY, FOR ADMINISTRATIVE APPROVAL OF THE UPPER VALLEY UNIT NO. 19 WELL, LOCATED IN SECTION 6, TOWNSHIP 37 SOUTH, RANGE 2 EAST, GARFIELD COUNTY, UTAH, AS A CLASS II ENHANCED RECOVERY INJECTION WELL CAUSE NO. UIC-063

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Tennaco Oil Company, P.O. Box 3249, Englewood, Colorado, 80155, has requested administrative approval of Upper Valley Unit No. 19 well, located 360' FNL to 735' FWL (NWNW) of Section 6, Township 37 South, Range 2 East, Garfield County, Utah as a Class II enhanced recovery injection well.

The proposed operating data for the well is as follows:

Injection interval: Kaibab Formation 6969' to 7042'. Maximum Estimated Surface Pressure: 250 psig. Maximum Estimated Water Injection Rate: 6000 BWPD.

Conditional approval of this application will be granted unless objections are filed with the division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 11th day of June, 1985.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING

/s/ Marjorie L. Anderson
Administrative Assistant

Published in the Garfield County News, June 20, 1985.

Affidavit of Publication RECEIVED

ADM-35B

STATE OF UTAH,
County of Salt Lake

ss.

JUN 26 1985

DIVISION OF OIL, GAS & MINING

Cheryl Gierloff

CAUSE NO. UIC-063
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH
IN THE MATTER OF THE APPLICATION OF TENNECO OIL COMPANY, FOR ADMINISTRATIVE APPROVAL OF THE UPPER VALLEY UNIT #19 WELL, LOCATED IN SECTION 6, TOWNSHIP 37 SOUTH, RANGE 2 EAST, GARFIELD COUNTY, UTAH, AS A CLASS II ENHANCED RECOVERY INJECTION WELL
THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER:
Notice is hereby given that Tenneco Oil Company, P.O. Box 2249, Englewood, Colorado, 80155, has requested administrative approval of Upper Valley Unit #19 well, located 360' FNL to 735' FWL (NWNW) of Section 6, Township 37 South, Range 2 East, Garfield County, Utah as a Class II enhanced recovery injection well.
The proposed operating data for the well is as follows:
Injection Interval: Kaibab Formation 6969' to 7042'
Maximum Estimated Surface Pressure: 250 psig
Maximum Estimated Water Injection Rate: 6000 BWPD
Conditional approval of this application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. objections, if any, should be mailed to the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.
DATED this 11th day of June, 1985.
STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
MARJORIE L. ANDERSON
Administrative Assistant
E-12

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Cause No. UIC-063 Application of Tenneco Oil Company

was published in said newspaper on

June 20, 1985

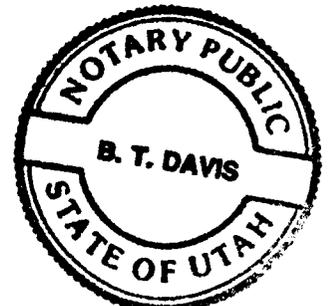
Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 24th day of June A.D. 19 85

[Signature]
Notary Public

My Commission Expires

March 1, 1988



Affidavit of Publication

RECEIVED

ADM-358

STATE OF UTAH,
County of Salt Lake

ss.

JUN 26 1985

DIVISION OF OIL
GAS & MINING

Cheryl Gierloff

Being first duly sworn, deposes and says that he/she is
legal advertising clerk of THE SALT LAKE TRIBUNE,
a daily newspaper printed in the English language with
general circulation in Utah, and published in Salt Lake
City, Salt Lake County, in the State of Utah, and of the
DESERET NEWS, a daily newspaper printed in the
English language with general circulation in Utah, and
published in Salt Lake City, Salt Lake County, in the
State of Utah.

That the legal notice of which a copy is attached hereto

Cause No. UIC-063 Application of Tenneco

Oil Company

was published in said newspaper on

June 20, 1985

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 24th day of

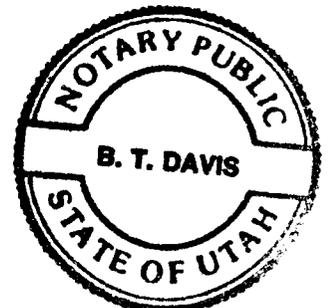
June A.D. 19 85

[Handwritten signature]

Notary Public

My Commission Expires

March 1, 1988



CAUSE NO. UIC-063
BEFORE THE DIVISION OF
OIL, GAS AND MINING
DEPARTMENT OF NATURAL
RESOURCES STATE OF UTAH
IN THE MATTER OF THE AP-
PLICATION OF TENNECO OIL
COMPANY, FOR ADMINIS-
TRATIVE APPROVAL OF THE
UPPER VALLEY UNIT #19
WELL, LOCATED IN SECTION
6, TOWNSHIP 37 SOUTH,
RANGE 2 EAST, GARFIELD
COUNTY, UTAH, AS A CLASS II
ENHANCED RECOVERY IN-
JECTION WELL
THE STATE OF UTAH TO
ALL INTERESTED PARTIES IN
THE ABOVE ENTITLED MAT-
TER.
Notice is hereby given that
Tenneco Oil Company, P.O. Box
3249, Englewood, Colorado,
80125, has requested adminis-
trative approval of Upper Val-
ley Unit #19 well, located 360'
FNL to 735' FWL (NWNW) of
Section 6, Township 37 South,
Range 2 East, Garfield County,
Utah, as a Class II enhanced re-
covery injection well.
The proposed operating data
for the well is as follows:
Injection Interval: Kalbab
Formation 6969' to 7042'
Maximum Estimated Surface
Pressure: 250 psig
Maximum Estimated Water
Injection Rate: 6000 BWPD
Conditional approval of this
application will be granted un-
less objections are filed with the
Division of Oil, Gas and Mining
within fifteen days after publi-
cation of this Notice. Objections,
if any, should be mailed to the
Division of Oil, Gas and Mining,
Attention: UIC Program Manag-
er, 355 West North Temple, 3
Triad Center, Suite 350, Salt
Lake City, Utah 84180-1203.
DATED this 11th day of June,
1985.
STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
MARJORIE L. ANDERSON
Administrative Assistant
E-12



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 22, 1985

Tenneco Oil Company
P.O. Box 3249
Englewood, Colorado 80155

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-063

Administrative approval is hereby granted to convert the following listed well to a Class II enhanced recovery injection well:

Upper Valley Unit #19
Section 6, Township 37 South, Range 2 East
Garfield County

This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

If you have any questions concerning this matter, please do not hesitate to call or write.

Best regards,

A handwritten signature in cursive script that reads "Dianne R. Nielson".

Dianne R. Nielson
Director

mfp
7627U

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL...
(Other instructions on re-
verse side)

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

7

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
36' FNL, 935' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7370' GR

SEP 12 1985

5. LEASE DESIGNATION AND SERIAL NO.
U-019378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Upper Valley Unit

8. FARM OR LEASE NAME

9. WELL NO.
19

10. FIELD AND POOL, OR WILDCAT
Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 6 T37S R2E

12. COUNTY OR PARISH
Garfield

13. STATE
UT

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

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

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

9/4/85 MIRUSU.

9/5/85 Pmp stuck. Put wtr dn csg & wrkd pipe up & dn in the tight spot. Pump came loose. Pulled pmp & tbq out of hole.

9/6/85 Ran scrapper. tagged btm at 7108.02'. Pulled tbq out of hole laying dwn production tbq.

9/7/85 Ran 3-1/2" tbq in the hole. Tight place in the csg. Pkr stuck. Pulled 100 points. Pkr came free.

9/8/85 Set the pkr at 5791.80'. Fill csg w/corrosion inhibited wtr. Csg held the wtr. No leak off. RDMOSU.

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

SIGNED Suth McKim TITLE Senior Regulatory Analyst DATE 9/10/85

(This space for Federal or State office use)

APPROVED BY Alton B. Feight TITLE VIC Manager DATE 9-23-85

CONDITIONS OF APPROVAL, IF ANY

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions on re-
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-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 purposes.)

RECEIVED

1. OIL WELL GAS WELL OTHER

SEP 12 1985

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

2. NAME OF OPERATOR
Tenneco Oil Company

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

DIVISION OF OIL
GAS & MINING

9. WELL NO.

19

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

11. SEC., T., R., E., N., OR BLK. AND SURVEY OR AREA

Sec 6 T37S R2E

14. PERMIT NO.

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

7370' GR

12. COUNTY OR PARISH

Garfield

13. STATE

UT

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

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

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

Convert to water injection well
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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9/7/85 Ran 3-1/2" tbg in the hole. Tight place in the csg. Pkr stuck. Pulled 100 points. Pkr came free.

9/8/85 Set the pkr at 5791.80'. Fill csg w/corrosion inhibited wtr. Csg held the wtr. No leak off. RDMOSU.

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

SIGNED *Scott McKinney*

TITLE Senior Regulatory Analyst

DATE 9/10/85

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIE
(Other instructions on
reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

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

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

36' FNL, 935' FWL

14. PERMIT NO.

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

7370' GR

5. LEASE DESIGNATION AND SERIAL NO.

U-019378

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Upper Valley Unit

8. FARM OR LEASE NAME

Upper Valley Unit

9. WELL NO.

19

10. FIELD AND POOL, OR WILDCAT

Upper Valley

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

Sec. 6, T37S R2E

12. COUNTY OR PARISH 13. STATE

Garfield

UT

RECEIVED
NOV 12 1985
DIVISION OF OIL
GAS & MINING

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Change of status

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

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

The referenced well was changed from a production to a water injection well effective 11-4-85.

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

SIGNED

Scott McKinnis

TITLE Senior Regulatory Analyst

DATE 11/8/85

(This space for Federal or State office use)

APPROVED BY

Chon B. Feght

TITLE VIC Manager

DATE 11-18-85

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Utah
Natural Resources
Oil, Gas and Mining

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

INJECTION WELL
PRESSURE TEST

COMPANY/OPERATOR TENNECO OIL CO. DATE 9/24/86

WELL TYPE: DISPOSAL ENHANCED RECOVERY OTHER

WELL NAME: # 19 Upper Valley API NO. 43-017-30013 LEASE NO. _____

SECTION 6 TOWNSHIP 37 S RANGE 2 E COUNTY Garfield

SURFACE CASING 8 5/8 @ 2840 WITH 500 sx CEMENT

INTERMEDIATE CASING _____ @ _____ WITH _____ CEMENT

PRODUCTION CASING 5 1/2 @ 7157 WITH 250 sx CEMENT

TUBING 3 1/2 @ 6920

PACKER SET @ 6920 TYPE Lok-Set MODEL Baker

CONDITIONS DURING TEST:

TUBING PRESSURE: vacuum psig.

CASING/TUBING ANNULUS PRESSURE 340 psig. for 15 minutes

CHANGE DURING TEST 360# → 340 over 15 minutes

CONDITIONS AFTER TEST:

TUBING PRESSURE: vacuum psig.

CASING/TUBING ANNULUS PRESSURE: 0 psig.

COMMENTS: 6000 BWPD / 250 psi

Not injecting at end of pressure test

Dorothy Swindel
WITNESS

[Signature]
WITNESS

Operator Change

SUB TRIPLICATE
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. varies
2. NAME OF OPERATOR Tenneco Oil Company <i>N0950</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 020910
3. ADDRESS OF OPERATOR P.O. Box 3249 Englewood, CO 80155		7. UNIT AGREEMENT NAME Upper Valley Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO.
15. ELEVATIONS (Show whether of, ft., or, etc.)		10. FIELD AND POOL, OR WILDCAT Upper Valley - Kaibab
		11. SEC., T., R., M., OR BLE. AND SUBST OR ABBA Townships 36S, 37S; Range 1E
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

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

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

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

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

N0265

18. I hereby certify that the foregoing is true and correct
SIGNED Steve Foster TITLE Sr. Administrative Analyst DATE 1/27/88

(This space for Federal or State office use)

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

Tenneco Oil Co. to Citation Oil and Gas Corp.

N0950 to N0265

Eff 9-1-87

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UPPER VALLEY UNIT

DIVISION OF
OIL, GAS & MINING

Upper Valley #1	SE/4NE/4	Sec. 11, T-36-S, R-1-E	Water Injection	43-017-11221 ✓
Upper Valley #2	NW/4NW/4	Sec. 13, T-36-S, R-1-E	Pow/KBAB	43-017-16025 ✓
Upper Valley #3	SE/SW	Sec. 13, T-36-S, R-1-E	Pow/KBAB	43-017-16026 ✓
Upper Valley #4	SE/SE	Sec. 24, T-36-S, R-1-E		43-017-16027 ✓
W1W Upper Valley #5	SE/SW	Sec. 12, T-36-S, R-1-E	Pow/KBAB	43-017-16028 ✓
Upper Valley #6	SE/NW	Sec. 13, T-36-S, R-1-E		43-017-20233 ✓
W1W Upper Valley #7	SE/NE	Sec. 24, T-36-S, R-1-E	Pow/KBAB	43-017-20258 ✓
Upper Valley #8	NW/SW	Sec. 13, T-36-S, R-1-E	Pow/KBAB	43-017-20275 ✓
Upper Valley #9	NW/SE	Sec. 24, T-36-S, R-1-E	Pow/KBAB	43-017-20324 ✓
Upper Valley #10	SE/NE	Sec. 25, T-36-S, R-1-E	Pow/KBAB	43-017-30001 ✓
Upper Valley #11	SE/SE	Sec. 25, T-36-S, R-1-E	Pow/KBAB	43-017-30002 ✓
Upper Valley #12	NW/SW	Sec. 6, T-37-S, R-2-E	Pow/KBAB	43-017-30015 ✓
Upper Valley #13	NE/NW	Sec. 24, T-36-S, R-1-E	Pow/KBAB	43-017-30003 ✓
Upper Valley #14	SE/SE	Sec. 11, T-36-S, R-1-E	Pow/KBAB	43-017-30004 ✓
Upper Valley #15	SE/SW	Sec. 24, T-36-S, R-1-E		43-017-30005 ✓
W1W Upper Valley #16	SW/NE	Sec. 11, T-36-S, R-1-E	PPA	43-017-30007 ✓
Upper Valley #17	SE/NE	Sec. 36, T-36-S, R-1-E	Pow/KBAB	43-017-30016 ✓
Upper Valley #17X	SE/NE	Sec. 36, T-36-S, R-1-E	Pow/KBAB	43-017-30071 ✓
Upper Valley #18	NW/SW	Sec. 31, T-36-S, R-2-E	Pow/KBAB	43-017-30012 ✓
W1W Upper Valley #19	NW/NW	Sec. 6, T-37-S, R-2-E	Pow/KBAB	43-017-30013 ✓
Upper Valley #20	NW/NE	Sec. 25, T-36-S, R-1-E	Pow/KBAB	43-017-30014 ✓
Upper Valley #21	NW/NW	Sec. 7, T-37-S, R-2-E	PPA	43-017-30021 ✓
Upper Valley #22	SE/NW	Sec. 14, T-36-S, R-1-E		43-017-30025 ✓
W1W Upper Valley #23	SE/NW	Sec. 30, T-36-S, R-2-E		43-017-30030 ✓
W1W Upper Valley #24	NE/NE	Sec. 23, T-36-S, R-1-E		43-017-30041 ✓
W1W Upper Valley #25	SW/SE	Sec. 36, T-36-S, R-1-E		43-017-30033 ✓

RECEIVED
FEB 01 1988

UPPER VALLEY UNIT (Continued)

DIVISION OF
OIL, GAS & MINING

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION & SERIAL NO. N/A	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME N/A	
2. NAME OF OPERATOR Citation Oil & Gas Corp.		8. FARM OR LEASE NAME N/A	
3. ADDRESS OF OPERATOR 8223 Willow Place South, Houston, TX 77070		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 25 miles NE of Escalante, Utah At proposed prod. zone Upper Valley		10. FIELD AND POOL, OR WILDCAT Upper Valley	
		11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec 6, T37S, R2E	
14. API NO. N/A	15. ELEVATIONS (Show whether DF, RT, GR, etc.) N/A	12. COUNTY Garfield	13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>oil/saltwater spill</u> <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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.)

* Must be accompanied by a cement verification report.

On December 7, 1990, at 8:30 A.M., an oil spill was discovered on the Little Valley No. 1 Tank Battery. The water pump had tripped out causing water to equalize into the oil tank which in turn caused the oil to run over into the catch basin on location. Approximately 20 bbls of crude oil and 250 bbls of saltwater were spilled, however, all was contained on location. A vacuum truck was used to recover 18 bbls of the crude oil. No waters or properties were threatened.

43-017 - 30015
43-017 - 30013 - W1W

William
Dec 6

18. FILE Administrative Asst. DATE 12-12-90

FILE _____ DATE _____

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

Pressure Test.

Operator: CITATION OIL AND GAS Field/Unit: UPPER VALLEY
Well: #19 Township: 37S Range: 02E Sect: 6
API: 43-017-30013 Welltype: INJW Max Pressure: 250
Lease type: FEDERAL Surface Owner: FOREST

Test Date: *9/16/91*
1:45

CASING STRING SIZE SET AT PRESSURE OBSERVATIONS

Surface: 8 5/8 2840

300 PSI Held

Intermediate: 0

16 min.

Production: 5 1/2 7157

Passed MIT

Other: 0

Tubing: 3 1/2

Packer: 6920

D. Jamis

Recommendations:



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 19, 1996

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

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

Gentlemen:

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

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.



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

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut-in 24 hours prior to testing.

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

Sincerely,

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

Gil Hunt
Environmental Manager, Oil & Gas

Enclosure

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

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

INJECTION WELL - PRESSURE TEST

Test Date: <u>10/2/96</u>	Well Owner/Operator: <u>Citation</u>	
Disposal Well: _____	Enhanced Recovery Well: <u>X</u>	Other: _____
API No.: <u>43-017-30013</u>	Well Name/Number: <u>#19</u>	
Section: <u>6</u>	Township: <u>37 S</u>	Range: <u>2 E</u>

Initial Conditions:

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

Conditions During Test:

<u>Time (Minutes)</u>	<u>Annulus Pressure</u>	<u>Tubing Pressure</u>
0	_____	_____
5	<u>340</u>	<u>VAC</u>
10	<u>340</u>	↓
15	<u>340</u>	↓
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi
 Casing/Tubing Annulus Pressure: VAC psi

REMARKS:

Passed MIT

Operator Representative _____

D. James
 DOGM Witness

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

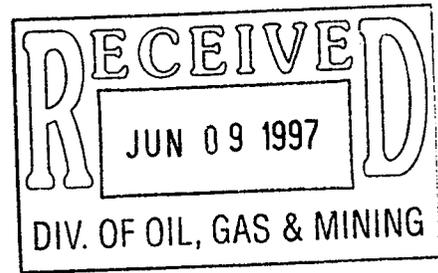
1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: Injection Wells		5. Lease Designation and Serial Number:
2. Name of Operator Citation Oil & Gas Corp.		6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: 8223 Willow Place South, Suite 250, Houston, Texas 77070-5623 (281) 469-9664		7. Unit Agreement Name: Upper Valley Unit
4. Location of Well Footages: Various QQ, Sec., T., R., M.: Sec. 6/7, T37S, R2E; Sec. 11, 12, 13, 14, 23, 24, 25 & 36, T36S, R1E; Sec. 30/31, T36S, R2E		8. Well Name and Number: Various
		9. API Well Number: Various 43-017-30013
		10. Field and Pool, or Wildcat: Upper Valley
		County: Garfield State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other Increase Injection Pressure Fieldwide	<input type="checkbox"/> Abandonment* <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start Upon Approval	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form * Must be accompanied by a cement verification report.

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

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



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

(This space for State use only)

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

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

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

INJECTION WELL - PRESSURE TEST

Well Name: UV #19 API Number: 43-019-30013
 Qtr/Qtr: _____ Section: 376 Township: 37S Range: 2E
 Company Name: Citation Oil
 Lease: State _____ Fee _____ Federal _____ Indian _____
 Inspector: D. Jones Date: 10/2/01

Initial Conditions:

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

Conditions During Test:

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

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi
 Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: Passed MIT

Kenneth A. Judge
 Operator Representative

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: Water Injection Well		5. Lease Designation and Serial Number:
2. Name of Operator Citation Oil & Gas Corp.		6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: P O Box 690688, Houston, Texas 77269 (281) 517-7800		7. Unit Agreement Name: Upper Valley Unit
4. Location of Well Footages: QQ, Sec., T., R., M.: NW NW SEC. 6-37S-2E		8. Well Name and Number: Upper Valley Unit # 19
		9. API Well Number: 43-017-30013
		10. Field and Pool, or Wildcat: Upper Valley Kaibab
		County: Garfield State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment* <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input checked="" type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start <u>2002</u>	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.

DIVISION OF OIL, GAS AND MINING

13. Name & Signature: Sharon Ward Sharon Ward Title: Regulatory Administrator Date: 1/16/02

(This space for State use only)
(12192)
COPY SENT TO OPERATOR
Date: 01/28/02
Initials: CHD

(See Instructions on Reverse Side)

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number:

~~U-013734~~ **ML-38397**

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Upper Valley Unit

8. Well Name and Number:

Various

9. API Well Number:

43-017-30013

10. Field and Pool, or Wildcat:

Upper Valley Kaibab

1. Type of Well:

OIL

GAS

OTHER: **Injection Well**

2. Name of Operator

Citation Oil & Gas Corp.

3. Address and Telephone Number:

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

4. Location of Well

Footages:

QQ, Sec., T., R., M.: **S-06 T 39S R02E**

County: **Garfield**

State: **Utah**

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

NOTICE OF INTENT

(Submit in Duplicate)

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

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

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

Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

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

API #

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

COPIES SENT TO OPERATOR
DATE: 10-29-04
BY: 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**

(See Instructions on Reverse Side)

(1292)

DATE: 10/27/04
BY: [Signature]

RECEIVED

OCT 26 2004

DIV. OF OIL, GAS & MINING

Federal Approval Of This
Action Is Necessary

UVU INJECTION WELL ACIDIZING SCHEDULE

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

Total = 7500 gallons

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

FORM 9

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 8910081780

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

8. WELL NAME and NUMBER:
Upper Valley Unit 19

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

9. API NUMBER:
4301730013

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

10. FIELD AND POOL, OR WLD CAT:
Upper Valley Kaibab

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **360' FNL & 935' FWL**

COUNTY: **Garfield**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NWNW 6 37S 2E**

STATE: **UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/24/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Mechanical Integrity</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
This well was tested for mechanical integrity on 10/24/2006. A copy of DOGM Inspection Form 6 is attached for your review.

NAME (PLEASE PRINT) Debra Harris TITLE Regulatory Compliance Coordinator
SIGNATURE *Debra Harris* DATE 11/14/2006

(This space for State use only)

RECEIVED
NOV 17 2006

INJECTION WELL - PRESSURE TEST

Well Name: <u>UPPER VALLEY UNIT #19</u>	API Number: <u>42017300130000</u>
Qtr/Qtr: <u>NW, NW</u> Section: <u>6</u>	Township: <u>37S</u> Range: <u>2E</u>
Company Name: <u>CETATION</u>	<u>SLBM</u>
Lease: State <u>21 019378</u> Fee _____	Federal _____ Indian _____
Inspector: <u>T. SMITH</u>	Date: <u>10/24/06</u> <u>LP</u>

Initial Conditions:

Tubing - Rate: 3057/04 Pressure: 60 psi
 Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

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

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 60 psi
 Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: ACTIVE INJECTION WELL

18BL PRODUCTION WATER AD0000

Glenn Wilson
 Operator Representative

RECEIVED

NOV 17 2006

DIV. OF OIL, GAS & MINING

NOV-13-2006 MON 03:12 PM OIL, GAS & MINING

FAX NO. 801 359 3940

P. 03/07

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>UPPER VALLEY UNIT #19</u>	API Number: <u>43017300130000</u>
Qtr/Qtr: <u>NW, NW</u> Section: <u>6</u>	Township: <u>37S</u> Range: <u>2E</u>
Company Name: <u>CITATION</u>	<u>5CBM</u>
Lease: State <u>71019378</u> Fee _____ Federal _____ Indian _____	
Inspector: <u>T. SMITH</u>	Date: <u>10/24</u>

Initial Conditions:

Tubing - Rate: 3057/04 Pressure: 60 psi
 Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

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

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 60 psi
 Casing/Tubing Annulus Pressure: _____ psi

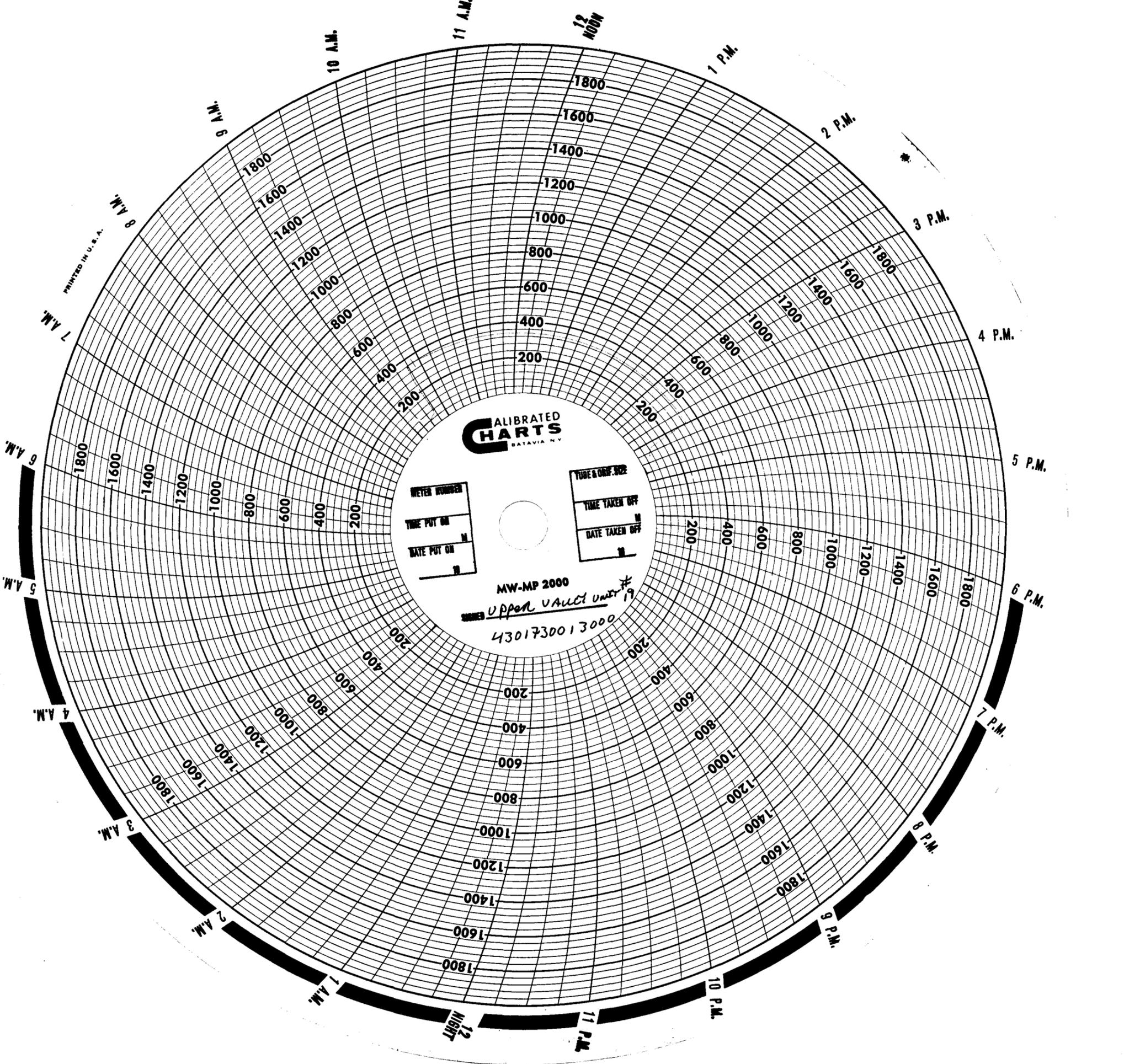
COMMENTS: ACTIVE INJECTION WELL

 _____ 1BBL PRODUCTION WATER ADDED

Glen Wilson

 Operator Representative

PRINTED IN U.S.A.

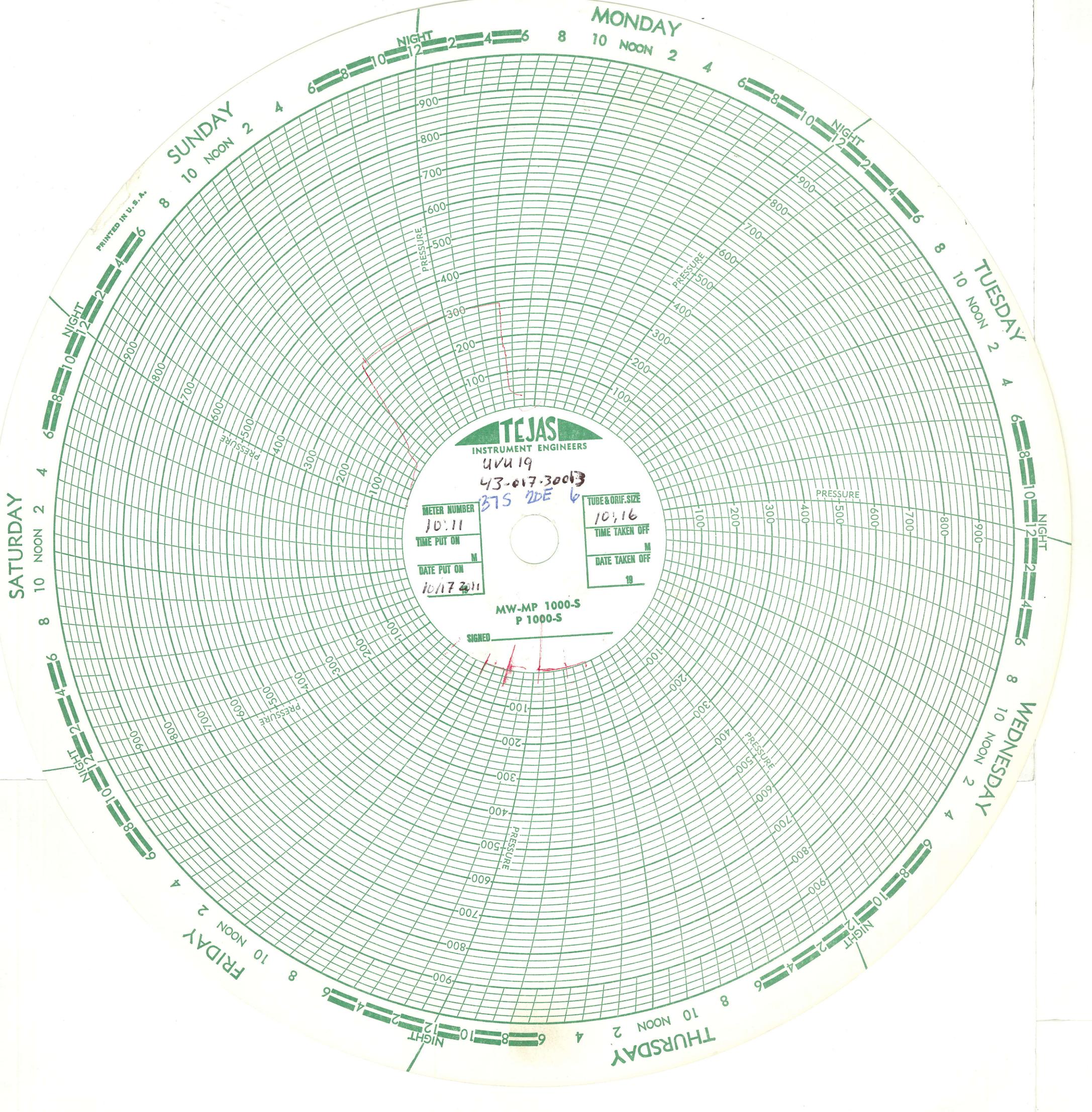


**CALIBRATED
CHARTS**
BATAVIA, N.Y.

METER NUMBER
TIME PUT ON
DATE PUT ON

TUBE & ORIF. SIZE
TIME TAKEN OFF
DATE TAKEN OFF

MW-MP 2000
UPPER VALVE UNIT #
4301730013000



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TEJAS
INSTRUMENT ENGINEERS

44419
43-017-3003
375 2DE 6

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

TUBE & ORIF. SIZE
10:16
TIME TAKEN OFF
M
DATE TAKEN OFF
19

MW-MP 1000-S
P 1000-S

SIGNED _____

43-017-30013

From: Jim Davis
To: Russell, Earlene
CC: Garrison, LaVonne
Date: 2/7/2012 1:59 PM
Subject: PEN 7000 and PEN 9150 mineral ownership errors

37S 2E 6

Hi, Earlene,

We found a few things that need to be corrected in DOGM's database. Would you mind?

A search for all the wells under PEN 7000 brings up several connected to lease number ML-3156. That lease was transferred to The Feds during the Grand Staircase Exchange back in 1998/ 1999. Under that same PEN, ML-33156 and ML-3150 also come up. Those are bad numbers that I'm guessing are just type-os of ML-3156.

Also, there's one well under PEN 9150 that is listed as being on a SITLA lease- but actually it's on Fed. That's the UV 19 (4301730013). SITLA has no interest in any of the wells in PEN 7000 and 9150. If somebody at DOGM can correct these two things, we'd be grateful. Thanks.

-Jim