

1-9-70 *Subsequent Report of Converting Water Injection*

- Scout Report sent out
- Noted in the NID File
- Location map pinned
- Approval or Disapproval Letter
- Date Completed, P. & A. or operations suspended _____
- Pin changed on location map
- Affidavit and Record of A & P
- Water Shut-Off Test
- Gas-Oil Ratio Test
- Well Log Filed

FILE NOTATIONS

Entered in NID File *Done* Checked by Chief _____

Entered On S.R. Sheet _____ Copy NID to Field Office _____

Location Map Pinned _____ Approval Letter _____

Card Indexed _____ Disapproval Letter _____

FWR for State or Fee Land _____

COMPLETION DATA:

Date Well Completed 10-22-53 Location Inspected _____

GW WW _____ TA _____ Bond rate _____

GS _____ OS _____ PA _____ State of Fee Land _____

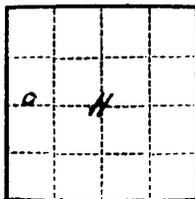
LOGS FILED

Driller's Log _____

Electric Logs (No.) 2 _____

E _____ E-1 _____ GR _____ GR-N _____ Micro _____

Lat _____ Mi-L _____ Sonic _____ Others _____



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

Land Office Salt Lake City
Lease No. 66657
Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	
<u>Subsequent Report of Setting Surface Casing</u>	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 5, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW-1/4 Section 11 7E 23E 11N
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Walker Hollow NC Hatch Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5200 ft. G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Ran 13 joints 10 3/4" OD 40.5# 8rd thd 8-80 A.O. Smith casing, 525' and @ 5 1/2".
Baker guide shoe @ 534', Baker float collar @ 493'. Cemented with 275 sacks
common cement. Cement circulated OK. Dumped float with 800' pressure. Job
completed 5:30 P.M. 8-4-53.

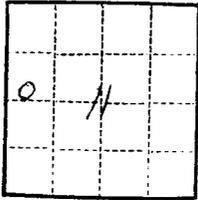
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah Z. L. GRIMME

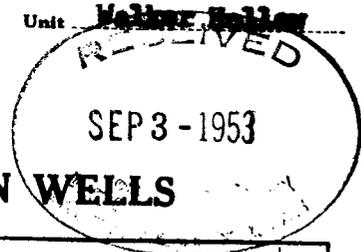
ODV ORIGINAL



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

Land Office Salt Lake City
Lease No. 066257
Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Drill Stem Test</u>	<u>0</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 31, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW-NW Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

SLM
(Meridian)

Walker Hollow WC
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. ^{G.L.}

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 8-28-53 DST #1. TD 4270', packer set @ 4254'. Tool open 1 hour. Good initial flow, decreased to fair last 10 minutes. Recovered 2710' total fluid, slightly gas cut, 100' muddy water, 2610' fresh water. IFP 250#, FFP 1200#, 30 minute SIP 1580#.

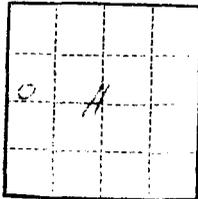
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

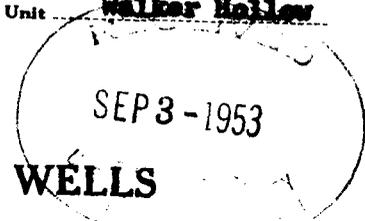
COPY ORIGINAL SIGNED Z. L. GRIMME



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Drill Stem Test</u> *.....

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 1, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW Nw Section 11
(¼ Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

SLM
(Meridian)

Walker Hollow WC
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. **G.L.**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 8-29-53 DST #2. TD 4330', packer set @ 4323'. Tool open 1 hour, good initial blow continued through test. No gas to surface. Recovered 510' heavy black oil, slightly mud cut. Gravity of oil 18°, pour point 82°. IFF 0#, FTP 175#, 30 minute SIP 1300#.

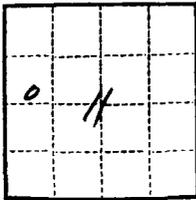
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

By Z. L. Grimes
District Foreman

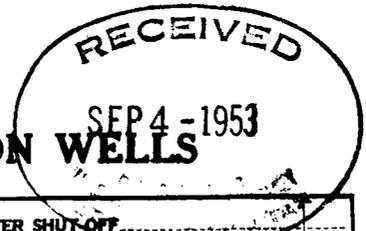


(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. 066157
Unit Walker Hollow

ORIGINAL FORWARDED TO CASPER



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Drill Stem Test</u> <u>9</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 2, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW 1/4 Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

31N
(Meridian)

Walker Hollow WC
(Field)

Utah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5200 ^{0.2} ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

DST ft on 9-1-53. TD 4493', packer set @ 4429'. Tool open 1 hour. Good initial blow and continued throughout test. No gas to surface. Recovered 180' slightly oil cut mud. IFP 65#, FFP 130#, 30 minste SIP 1490#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

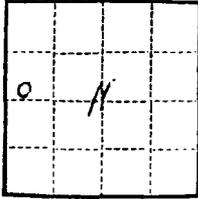
Address Box 591

Vernal, Utah

COPY ORIGINAL SIGNED Z. L. GRIMME

By Z. L. Grimes
Title District Foreman

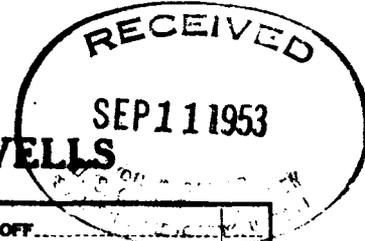
Approved 9-4-53
H. Scoville



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		<u>Report of Drill Stem Test</u>	<input checked="" type="checkbox"/>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 9, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW 1/4 Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

11N
(Meridian)

Walker Hollow WC
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. ^{G.L.}

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 9-5-53 DST #5. TD 4738', packer set @ 4729 1/2'. Tool open 1 hour. Good blow throughout test. Gas to surface in 52 minutes, burned 1 1/2' flame. Recovered 420' of heavy black oil, slightly mud cut. Gravity of oil 31.8, pour point 36. IFP 25#, FFP 25#, 30 minute SIP 1285#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

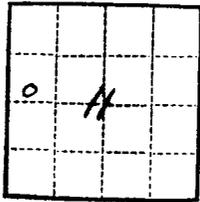
Address Box 591

Vernal, Utah

By Z. L. GRIMME
Title District Foreman

Approved 9-14-53

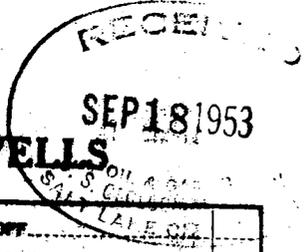
R. W. Kassen
Acting



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
 Lease No. 066357
 Unit Walker Hollow



ORIGINAL FORWARDED TO CASPER
SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Report of Drill Stem Test</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 11, 1953

Bamberger Unit
 Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11
 SW NW Section 11 (1/4 Sec. and Sec. No.) 7S (Twp.) 23E (Range) 11N (Meridian)
 Walker Hollow WC (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5208 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

DST #6, TD 5228', packer set @ 5213'. Tool open 1 hour. Light blow initially, dead in 8 minutes. Recovered 25' very slightly oil cut mud. DFP 10%, JFP 10%, 30 minute SIP 10%.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

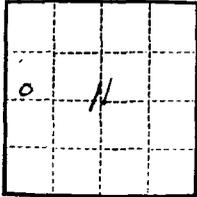
By COPY ORIGINAL SIGNED Z. L. GRIMME

Z. L. Grimme

Title District Foreman

Approved SEP 18 1953

R. M. Tamm

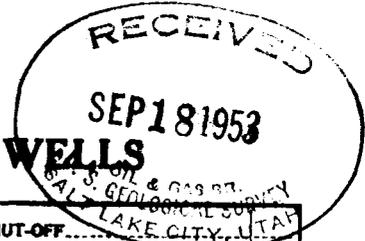


(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow

ORIGINAL FORWARDED TO CASPER



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	Report of Drill Stem Test

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 16, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW NW Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

51M
(Meridian)

Walker Hollow WC
(Field)

Utah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. ^{G.L.}

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

On 9-12-53 DST #7, TD 5286', packer set @ 5273'. Tool open 1 hour. Good blow throughout test. Gas to surface in 45 minutes. Burned 2' flame. Recovered 381' of fluid, top 60' oil cut mud and 321' of oil. Gravity of oil 30° @ 60°. Pour Point 80°. IFF 20#, FFP 80#, 30 minute SIP 1850#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

COPY ORIGINAL SIGNED Z. L. GRIMME

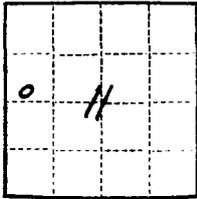
By

Z. L. Grimme

Title District Foreman

SEP 18 1953

R. M. Hansen
acting



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ORIGINAL FORWARDED TO CASPER

Land Office Salt Lake City

Lease No. 066357

Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Hook Wall DST</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 24, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW 1/4 Section 11 7S 23E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Walker Hollow NC Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TD 5754'. Set Hook Wall DST tool @ 5295'. Tool open 1 hour. Good blow throughout test. Recovered 480' fluid, 60' of slightly oil cut mud, 420' clear water. IFF 20#, FFF 205#, 30 minute SIP 1540#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

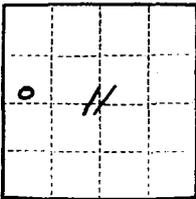
Address Box 591

Vernal, Utah

By COPY ORIGINAL SIGNED Z. L. GRIMME
By Z. L. Grimme
Title District Foreman

Approved SEP 28 1953

R. M. Larsen
District Foreman



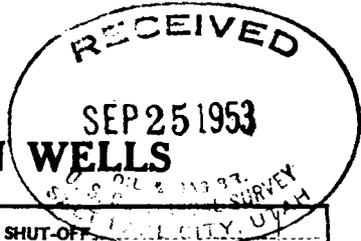
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

Land Office **Salt Lake City**

Lease No. **066357**

Unit **Walker Hollow**



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	Report of Setting Casing *

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 24, 1953

Bamberger Unit
Well No. **1** is located **2110** ft. from **N** line and **660** ft. from **W** line of sec. **11**

SW NW Section 11 **7S** **23E** **51M**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Walker Hollow WC **Uintah** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **5208** ^{G.L.} ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 9-20-53 ran 133 joints 7" OD 23# J-55 Range 3 German Casing, 5415' of casing set @ 5391'. Pumped plug to 5350'. Cemented with 425 sacks Regular cement plus 3% gel. Good returns during entire job. Job completed @ 5:40 A.M. 9-20-53.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The Carter Oil Company**

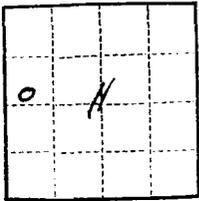
Address **Box 591**

Vernal, Utah

Approved **SEP 28 1953**

R. M. Larsen
Acting District Engineer

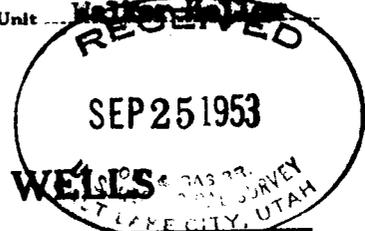
By **COPY ORIGINAL SIGNED Z. L. GRIMME**
Z. L. Grimme
Title **District Foreman**



(SUBMIT IN TRIPLICATE)
 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
 ORIGINAL FORWARDED TO CASPER

Budget Bureau 42-R386.2
 Approval expires 12-31-52.

Land Office Salt Lake City
 Lease No. 066357
 Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL	<u>Notice of Perforating</u>	<u>2</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 24, 1953

Bamberger Unit
 Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW NW Section 11
 (1/4 Sec. and Sec. No.)

7S
 (Twp.)

23E
 (Range)

SLM
 (Meridian)

Walker Hollow WC
 (Field)

Uintah
 (County or Subdivision)

Utah
 (State or Territory)

The elevation of the derrick floor above sea level is 5208 ^{G.L.} ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforated with Lane Wells 3 conventional bullets per foot and 3 jet shots per foot from 5305' to 5310'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

By Z. L. Grimes
 Title District Foreman

Approved SEP 28 1953

R. M. Larsen
 Acting District Foreman



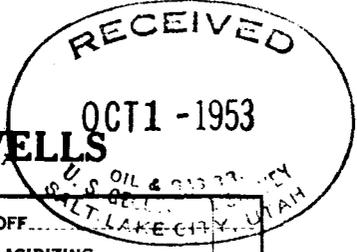
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow

ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS



NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	Notice of Perforating and Drill Stem Testing

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 29, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from ~~XXX~~^(N) line and 660 ft. from ~~W~~^(W) line of sec. 11
SW NW Section 11 (1/4 Sec. and Sec. No.)
7S (Twp.) 23E (Range) SLM (Meridian)
Walker Hollow WC (Field) **Uintah** (County or Subdivision) **Utah** (State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. ^{G.L.}

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set Baker bridge plug @ 5296'. On 9-25-53 perforated with Lane Wells, 5281' to 5282' with 6 conventional bullets per foot, perforated 5282' to 5285' with 3 conventional bullets and 3 jet shots per foot, and perforated 5271' to 5277' with 3 conventional bullets and 3 jet shots per foot. Set hook wall packer at 5264'. Tool open 4 hours. Good blow 10 minutes then decreased to fair for remainder of test. Recovered 90' oil, 90' oil cut mud, 450' clear water. IFP 50#, FFP 330#, 45 minute SIP 1735#.

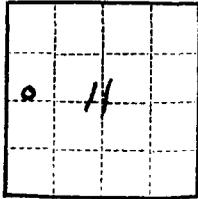
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
Address Box 591
Vernal, Utah

By COPY ORIGINAL SIGNED Z. L. GRIMME
Title Z. L. Grimes District Foreman

Approved OCT 2 - 1953

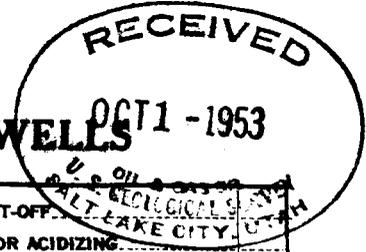
R. M. Lasser
acting District Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

Land Office Salt Lake City
Lease No. 046357
Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	Report of Perforating and Drill Stem Testing

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 29, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from (N) line and 660 ft. from (W) line of sec. 11
SW NW Section 11 7S 23E 51M
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Walker Hollow WC Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. ^{G.L.}

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 9-26-53 perforated 8 holes from 5294½' to 5295' with Lane Wells jet gun. Set Johnston formation packer @ 5288'. Tool open 2 hours. Light blow initially, continued for 15 minutes, then dead for remainder of test. Recovered 50' very slightly oil cut mud. IFF 0#, FFP 0#, 30 minute SIP 0#. On 9-27-53 perforated with Lane Wells jet gun 8 shots from 5261½' to 5262'. Ran Johnston straddle packer. Lower packer @ 5266', top packer @ 5244'. Tool open 2 hours. Good initial blow, decreased to 0 blow in 15 minutes. Recovered 50' oil cut mud. IFF 0#, FFP 0#, 30 minute SIP 0#. Ran DST with hook wall packer set @ 5266'. Tool open 4 hours. Good initial blow and continued through test. Gas to surface in 40 minutes. Recovered 630' fluid, top 450' slightly mud cut oil, 180' clean oil. IFF 0#, FFP 160#, 30 minute SIP 1115#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

By Z. L. Grimes
Title District Foreman

Approved OCT 1 - 1953
R. M. Lamm
Acting District Engineer

Form 9-331a
(Feb. 1951)



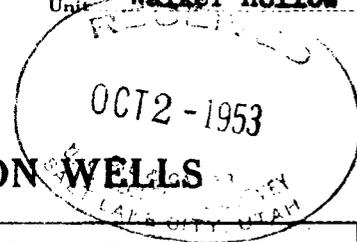
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

Land Office Salt Lake City

Lease No. 066357

Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	Report of Sandoil Treatment *

INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA

September 30, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW 11 Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

SLM
(Meridian)

Walker Hollow
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

G.L.

The elevation of the derrick floor above sea level is 5208 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Pumped 15 barrels Ashley Valley crude in hole, checking formation. Maximum pressure 2600#, broke back to 2100#. Followed by 30 barrels kerosene with 1 gallon Fortflo per barrel added - 2500#. Followed with 2000 gallons #5 burner fuel to which 1 lb. of sand per gallon of oil had been added. Sand hit formation @ 2900#, decreased to 2400#. Followed by 75 barrels Ashley Valley crude, pumped in @ 2100#. Job completed 9-29-53.

Understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

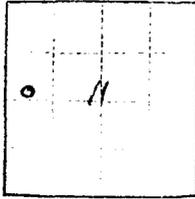
Company The Carter Oil Company

Address Box 591

Vernal, Utah

By COPY ORIGINAL SIGNED Z. L. GRIMME
Title Z. L. Grimme District Foreman

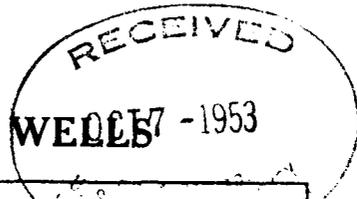
W. M. Karsen



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO ONSPER

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow



SUNDRY NOTICES AND REPORTS ON WELLS - 1953

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	Report of Perforating and Drill Stem Testing

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 6, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11
SW NW Section 11 7S 23E S1M
(4 Sec. and 1 Sec. No.) (Town) (Range) (Meridian)
Walker Hollow WC Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforated 4729-31' and 4735-43' with 3 cone shots and 3 conventional bullets per foot. Set Johnston H. W. packer @ 4699' for DST. Good initial blow. Decreased to faint blow at end of 3 hours. Recovered 2900' fluid, oil and gas cut water. IFF 0#, FFP 1125#, 30 minute SIP 1250#. Set Johnston H. W. packer @ 4733' for DST of zone 4735-43'. Tool open 3 hours. Good initial blow. Decreased to light blow at end of test. Very small amount of gas to surface in 2 hours. Recovered 3617' of water, very slightly oil and gas cut. IFF 0#, FFP 1450#, 30 minute SIP 1600#.

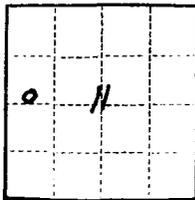
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
Address Box 591
Vernal, Utah

By Z. L. GRIMME
Title District Foreman

DATE OCT 12 1953

Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. 966357
Unit Walker Hollow



ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Squeeze Job</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 6, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11
SW NW Section 11 7S 23E SLM
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Walker Hollow WC Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5208 ^{G.L.} ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set Baker bridge plug @ 4803' to insure that bridge plug @ 4806' hold squeeze pressure. Set Baker Model "K" retainer @ 4720'. Broke down formation @ 1900#. Pumped 10 barrels of water ahead of cement and mixed 100 sacks of regular cement. Pumped in first 60 sacks @ 1000# pressure. Staged 40 sacks in 2 1/2 sack intervals with 1 to 5 minutes shut down between intervals. Attained maximum pressure of 3000# but unable to hold over 1000# standing pressure. Cleared perforations with 3 barrels of water. (Job completed 10-4-53.)

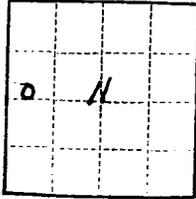
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
Address Box 591
Vernal, Utah

By COPY ORIGINAL SIGNED Z. L. GRIMME
Title Z. L. Grimes
District Foreman

Approved OCT. 12. 1953.

George J. Dyer
Acty. Geol. Survey



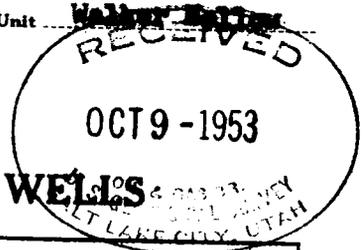
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. 066257

Unit Walker Hollow



ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of DST</u> *

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 7, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW NW Section 11
(¼ Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

S1M
(Meridian)

Walker Hollow WC
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. ^{G.L.}

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled up retainer @ 4720' and pushed down to top of bridge plug @ 4803'. Ran Johnston hook wall DST tool and set @ 4710'. Good initial blow and continued through test. Gas to surface in 1 hour, burned 2' flame. Recovered 850' total fluid, top 130' free oil (Ashley Valley rat hole fluid), 720' congealed water cut oil. LFP 10%, FFP 280%, 30 minute SIP 1010%.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

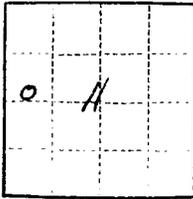
By COPY ORIGINAL SIGNED Z. L. GRIMME

Z. L. Grimme

Title District Foreman

OCT 12 1953

George J. Bystron
District Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow

ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Report of Perforating and Drill	
		Stem Testing	*

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 8, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11
~~SW~~
Sw NW Section 11 7S 23E S1M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Walker Hollow WC **Uintah** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. ^{G.L.}

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforated 4735' to 4743' with 4 conventional bullets per foot. Ran Johnston hook wall packer and set 4708'. Tool open 3 hours. Good blow throughout test. Gas to surface in 25 minutes, burned 2' flame. Recovered 990' congealed oil, water cut. IFF 0%, FFP 310%, 30 minute SIP 1040%.

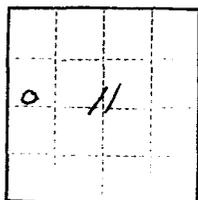
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
Address Box 591
Vernal, Utah

By **COPY ORIGINAL SIGNED** Z. L. GRIMME
Title Z. L. Grimme
District Foreman

Approved 1953

George S. Pugh



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow

ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	Report of Sand Oil Treatment *

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 9, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW 1/4 Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

SLM
(Meridian)

Walker Hollow WC
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

G.L.

The elevation of the derrick floor above sea level is 5208 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set Howco H. M. Tool @ 4711'. Pumped in 15 barrels Ashley Valley crude breaking down formation. Initial pressure pumping in Ashley Valley crude 2100#, broke down to 1900#. Followed Ashley Valley crude with 30 barrels kerosene plus 1 gallon of Morflo per barrel added @ 2200#. Followed with 2000 gallons #5 burner fuel to which 1 pound of sand per gallon of oil had been added, pumped in @ 2900#. Followed by 72 barrels Ashley Valley crude, pumped in @ 1800#. Let set 6 hours and pressure bled back to 600#. Released pressure and started swabbing.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

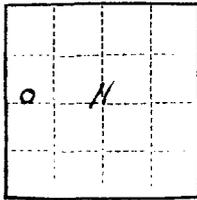
By **COPY ORIGINAL SIGNED** Z. L. GRIMME

Z. L. Grimme

Title District Foreman

Approved OCT 15 1953

Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ORIGINAL FORWARDED TO CASPER

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
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NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Perforating and Drill</u>
	<u>Stem Testing</u> *

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 12, 1953

Bamberger Unit
Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW NW Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

SLM
(Meridian)

Walker Hollow WC
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5208 ^{G.L.} ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Ran 2 Baker 7" bridge plugs set @ 4377' and 4374'. Perforated with McCullough from 4327' to 4330' with 3 shots per foot 1/2" bullets and 3 shots per foot cone shots. Set Johnston H. W. packer @ 4300' for DST. Tool open 3 hours and 40 min. with 30-minute shut-in. Recovered total of 1780' fluid, top 180' oil (largely Ashley Valley from rat hole) and 1600' oil cut water (estimated cut 10% with oil). IFP 0#, FFP 690#, SIP 1700#, Hyd. pressure 1765#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

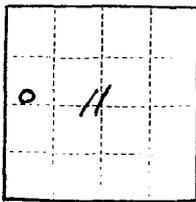
Approved OCT 15 1953

By

Title

COPY SENT Z. L. GRIMME

Z. L. Grimme
District Foreman



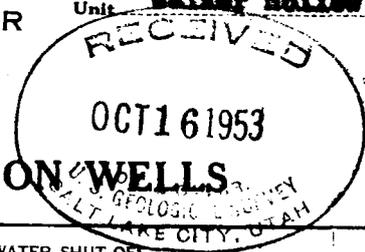
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. 066357

Unit Walker Hollow



ORIGINAL FORWARDED TO CASPER
SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Squeeze Job</u> *

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 11, 1953

Bamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW 1/4 Section 11
(1/4 Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

S1M
(Meridian)

Walker Hollow WC
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5208 ft. **G.L.**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set Baker Model K Magnesium 7" cement retainer @ 4316' to squeeze interval 4327' to 4330'. Broke down formation with oil @ 2200#. Pressure dropped to 1800#. Pumped 10 barrels of water ahead of cement. Squeezed with 95 sacks of common cement, 75 sacks below retainer, reversed out 20 sacks. Cement started into formation @ 1700#. Final squeeze pressure 3000#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 591

Vernal, Utah

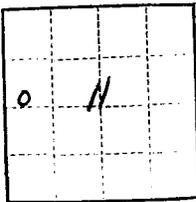
By **COPY ORIGINAL SIGNED** Z. L. GRIMME

Z. L. Grimme

Title District Foreman

Approved [Signature]

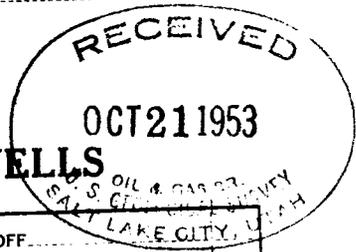
Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Salt Lake City**
Lease No. **066357**
Unit **Walker Hollow**



ORIGINAL FORWARDED TO CASPER
SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	Report of Perforating and Drill Stem Testing *

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 16, 1953

Bamberger Unit
Well No. **1-BU** is located **2110** ft. from **N** line and **660** ft. from **W** line of sec. **11**
SW NW Section 11 (1/4 Sec. and Sec. No.)
Walker Hollow WC (Field)
7S (Twp.) **23E** (Range) **S1M** (Meridian)
Uintah (County or Subdivision) **Utah** (State or Territory)
G.L.

The elevation of the derrick floor above sea level is **5208** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforated with McCullough 4327' to 4330' three jet shots and three conventional bullets per foot. Ran Johnston hook wall DST tool, set @ 4296'. Tool open 3 hours, weak initial blow continued through test. Recovered 405' fluid, top 135' rat hole Asnley Valley crude, remaining 270' oil cut water. IFP 0#, YFP 200#, 30 minute SIP 740#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The Carter Oil Company**
Address **Box 591**
Vernal, Utah

By **COPY ORIGINAL SIGNED Z. L. GRIMME**
Z. L. Grimme
Title **District Foreman**

Approved **OCT 21 1953**

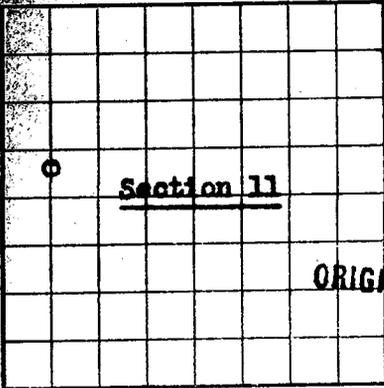
George B. ...

5

Budget Bureau No. 42-R355.2.
Approval expires 12-31-52.

Form 9-390

U. S. LAND OFFICE Salt Lake
SERIAL NUMBER 046357
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



ORIGINAL FORWARDED TO CASPER

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Carter Oil Company Address P. O. Box 591, Vernal, Utah
Lessor or Tract Bamberger Unit Field Walker Hollow State Utah
Well No 1 Sec. 11 T. 7S R. 23E Meridian _____ County Uintah
Location 2110 ft. of N. Line and 660 ft. of W. Line of Sec. 11 Elevation 5208 GL.
(Device floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed COPY ORIGINAL SIGNED H. W. McCORMICK

Date November 5, 1953 Title Dist. Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling August 3, 1953 Finished drilling October 22, 1953

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4327 to 4330 No. 4, from 5281 to 5282
No. 2, from 4735 to 4743 No. 5, from _____ to _____
No. 3, from 5271 to 5277 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10 3/4"	40.5	8	S-80	524					
7"	23	8	J-55	5391			4327	4330	
							4735	4743	
							5271	5277	
							5281	5282	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	534	275	Halliburton	-	-
	5391	425	Halliburton	-	-

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **Surface** feet to **5754** feet, and from - feet to - feet

Cable tools were used from **None** feet to - feet, and from - feet to - feet

DATES

November 5,, 19 **53**

Put to producing **See Note**, 19

The production for the first 24 hours was **130** ^{109 BOPD} barrels of fluid of which **84** % was oil; - % emulsion; ^{5 BWPP} **4** % water; and ¹⁶ **12** % sediment. Gravity, °Bé. **29.8° API**

If gas well, cu. ft. per 24 hours - Gallons gasoline per 1,000 cu. ft. of gas -

Rock pressure, lbs. per sq. in. -

EMPLOYEES

....., Driller Driller

....., Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2790	2790	<u>UINTA FORMATION:</u> Variegated shales & mudstones, some sandstone beds.
2790	5730	2940	<u>GREEN RIVER FORMATION:</u> Lacustrine shales & sandstones, some ostracodal limestones & siltstones. A few extremely cherty sandstones in the middle portion of the formation.
5730	5754	24	<u>WASATCH FORMATION:</u> Dark maroon shales.

NOTE: Production shown above is from swab test prior to completion. Pumping equipment is being installed at the present and well will be put on production when installation is completed.

Workover Summary

Prior to Workover: Casing set at 5391'. Perforated 5281-85'; 5271-77'; 4735-43' & 4327-30'. TD 5754', Plugged back to 5293' with Bridge Plug.

Drilled Bridge Plug at 5293' and cement to 5437' and cleaned up hole. Ran tubing open ended to 5355', swabbed load oil and tested 3 hours. With fluid level standing 800' to 1000' from surface swabbed 35 bbls water per hour, no show of oil. Pulled tubing and ran correlation log. Set CI Bridge Plug at 5300' and cement from 5300-5295'.

Set Bridge Plug at 4850', perforated 4812-30' with 4 shots per foot. Ran tubing to 2770', well kicked off flowing. Killed well, finished running tubing and set packer at 4762'. Recovered load oil, swabbed 1 hour to pit and recovered approximately 30 bbls water, swabbed to tank 4½ hours, recovered 108 bbls water, gas cut, very slight show of dead oil. Fluid level standing 500' to 800' from surface. Pulled tubing & packer.

Ran tubing and packer with blank nipple above packer. Set packer at 4767' with perforated nipple 4756-60' to test perforations 4327-30' and 4735-43'. Swabbed down and tested for 5 hours. Last hour recovered 1.3 bbls oil & .8 bbl water. Pulled tubing and packer.

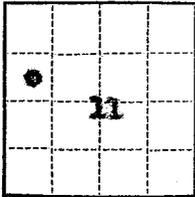
Ran tubing with cement retainer set at 4760'. Squeezed perforations 4812-30'. Broke down formation with water @ 1700#, squeezed 85 sacks in formation. Maximum and standing pressure 5600#. Set CI Bridge Plug at 4710'.

✓ Perforated 4437-38' with 4 holes. Set packer at 4391'. Swabbed load oil & water. Swabbed 9 hours, recovered 2 bbls oil & 4-2/3 bbls water. Treated perforations with 250 gal MCA. Max & Min pressure 1100# at 1 bbl/min. Recovered acid water. Swabbed 4 hrs, recovered 3 bbls oil & 1/2 bbls water. Pulled tubing & packer.

Perforated 4425-42' with 4 holes per foot. Ran tubing & packer, set packer at 4397'. Swabbed back load oil & water. Tested 2 hours, recovered 70 gallons oil & 10 gallons water. Treated perforations with 250 gal BDA, max press 1300#, min & final press 1200#, injection rate 1 bbl/min. Swab tested 2 hrs, recovered 3-1/4 bbls oil & 20 gallons water. Treated with 6800 gal #5 burner fuel plus 6000# sand with 140 gal Humblefrac concentrate. Pumped in formation with Ashley Valley Crude at 3000#, 10 bbls/min injection rate. Used total of 235 bbls load & frac oil, shut well in for 8 hours. Recovered load oil, swabbed at rate of 4.4 bbl oil & 3.2 bbl water per hour. Pulled tubing & packer.

Cleaned out sand to 4710' and drilled Bridge Plug at 4710', drilled cement and cleaned out to cement retainer at ~~4760'~~ 4760'. Drilled retained and cement to 4846'. Set packer at 4755' to test cement squeeze on perforations 4812-30'. Swabbed tubing down and tested 3 hours, no recovery, squeeze job OK.

Drilled cement from 4846-50', drilled Bridge Plug @ 4850' and drove to 5293'. Ran tubing, Pump & Rods and placed on pump. Recovered load and tested at rate of 60 BO & 38 BW per day on 24 hour test thru open choke, from perforations 4327-30'; 4425-42' (new zone); 4735-43'; 5271-77'; 5281-85'. 38' of net pay.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. 066357

Unit Walker Hollow

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	
Notice of Intention to Fracture-Treat	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 5, 1956, 19__

(Sarberger Unit)

Well No. 2 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW Section 11
(¼ Sec. and Sec. No.)

7S
(Twp.)

23E
(Range)

ELM
(Meridian)

Walker Hollow
(Field)

Utah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the ~~derrick floor~~ above sea level is 5208 ft. G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

It is intended to inject 10,000 gallons of No. 5 burner fuel and 15,000 Sand thru perforations 5271-77' and 5281-85', Displace with 55 bbls Ashley Valley Crude and close well in for pressure equalization. Then with a retrievable bridge plug at 4755' and a retrievable packer at 4690', treat perforations 4735'-43' same as above. Run rods and pump and place on production.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

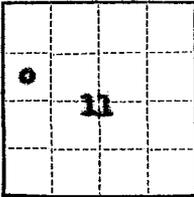
Address Box 591
Vernal, Utah

By COPY (ORIGINAL SIGNED) B. M. BRADLEY

Title B M Bradley
District Superintendent

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	Report of Fracture-Treatment	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 10, 1956

19

Berberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11

SW NW Section 11
(1/4 Sec. and Sec. No.)

7S 23E
(Twp.) (Range)

SLM
(Meridian)

Walker Hollow
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of ~~the casing floor~~ above sea level is 5200 ft. **G.L.**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Pulled rods and tubing, ran tubing with Baker full bore retrievable packer set at 5245'. Loaded hole with 155 bbls Ashley Valley Crude through tubing with 1000# pressure. Tested tubing with 4000# pressure. Picked up tubing to set packer with 44,000# pull, broke swage at top of tubing, dropped tubing 5', picked up and retested tubing with 4000# OK. Pumped in 80 bbls Ashley crude at 8 bbls per minute with 4000 psi, no break down. Fractured with 9000 gallons #5 burner fuel with 15000# sand added, averaged 4.8 bbls per minute with maximum pressure 5000#. Flushed with 55 bbls Ashley crude at 4500# pressure, 6 bbls per minute. Pressure dropped to 2000# when pumps were shut down, dropped to 800# in 45 minutes. Left well shut in over night. Started swabbing, swabbed to tanks from 2500', total of 35 bbls, fluid level stayed at 2000'. Unseated packer, checked for fillup, found bottom at 5275', previous measured TD 5279'. Pulled tubing, broke down Baker packer. Ran tubing with Baker combination full bore packer and retrievable bridge plug.

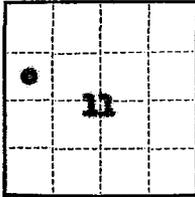
See attached sheet

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE CARTER OIL COMPANY

Address Box 591
Vernal, Utah

By B H Bradley
Title District Superintendent



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Fracture-treatment</u>	<input checked="" type="checkbox"/>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 10, 1956

Parberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11
SW NW Section 11 T8 R3E SLM
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Walker Hollow Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of ~~the discharge flow~~ above sea level is 5200 ft. G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Pulled rods and tubing, ran tubing with Baker full bore retrievable packer set at 5245'. Leaded hole with 155 bbls Ashley Valley Crude through tubing with 1000# pressure. Tested tubing with 4000# pressure. Picked up tubing to set packer with 4000# pull, broke wags at top of tubing, dropped tubing 5', picked up and retested tubing with 4000# OK. Pumped in 80 bbls Ashley crude at 8 bbls per minute with 4000 psi, no break down. Fractured with 9000 gallons #5 burner fuel with 15000# sand added, averaged 4.8 bbls per minute with maximum pressure 5000#. Flushed with 55 bbls Ashley crude at 4500# pressure, 6 bbls per minute. Pressure dropped to 2000# when pumps were shut down, dropped to 800# in 45 minutes. Left well shut in over night. Started snubbing, snubbed to tanks from 2500', total of 35 bbls, fluid level stayed at 2000'. Unseated packer, checked for fillup, found bottom at 5275', previous measured to 5279'. Pulled tubing, broke down Baker packer. Ran tubing with Baker combination full bore packer and retrievable bridge plug.

See attached sheet

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE CARTER OIL COMPANY

Address Box 591
Vernal, Utah

By B H Bradley
Title District Superintendent

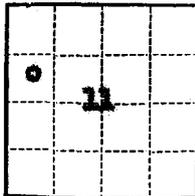
Bamberger Unit No. 1 - Report of Fracture-Treatment Continued:

Bridge plug set at 4785', full bore packer at 4680'. Circulated hole with 125 bbls Ashley crude before setting packer. Pressured up annulus to 1500#, pumped into formation at 3000# at rate of 8 bbls per minute. Fracture with 10,000 gallons #5 burner fuel plus 15,000# sand at 4500# pressure at 6.8 bbls per minute. Displaced with 55 bbls Ashley crude at 4200# pressure at 6.9 bbls per minute. Maximum pressure 4800#, final pressure 4200#. Pressure dropped to 2100# after pumps were shut down. Dropped to 975# after 1 hour. Shut well in over night. Flowed 7 bbls oil while bleeding off pressure, swabbed to 2600' with fluid level at 2100', swabbed 32 bbls oil. Pulled packer and retrievable bridge plug. Ran tubing, rods and pump. Tubing set at 5231'. Put well on pump, recovered all load oil and diesel. Pumped 140 bbls oil and 32 bbls water in first full 24 hours. Pumped 126 bbls oil and 27 bbls water next 24 hours. Completed for average 133 bbls oil and 29 bbls water per day.

1. Drill out bridge plugs at 5293' and 5296' and drill and clean out to TD of 5754'.
2. Plug back with cement to 5485'.
3. Test open hole interval from 5391' to 5485'.
4. Wash open hole interval with 1,000 gallons BDA and recover.
5. Test open hole interval from 5391' to 5485'.
6. Procedure for testing and completing open hole interval and perforated interval from 5379-87'.
 - I. Assume that the open hole interval 5391-5485' produces predominantly water during the test. (1) Plug back with cement to 5430'. (2) Test open hole interval from 5391-5430'.
 - II. Assume that the open hole interval 5391-5430' tests predominantly water. (1) Plug back with cement to 5390'. (2) Perforate 5379-87' with 4 jets/ft. (3) Test. (4) Wash with 250 gals of BDA. (5) Fracture perforated interval 5379-87' with 2,800 gals of #5 Burner Fuel containing 1# Sand per gal (unless zone tests predominantly water). (6) Test.
 - III. Assume that the open hole interval 5391-5430' tests predominantly oil. (1) Perforate 5379-5387' with 4 jet shots/ft. (2) Wash with 250 gals BDA. (3) Fracture open hole interval 5391-5430' and perforated interval 5379-87' with 10,800 gals of #5 Burner Fuel containing approximately 1# Sand per gal. (4) Test.
 - IV. Assume entire open hole interval from 5391-5485' tests predominantly oil: Handle in same manner as 6.III, except fracture with 24,000 gals #5 Burner Fuel containing 1# Sand per gallon.
7. Test perforated interval from 4812-4830'. (1) Set bridge plug at 4850'. (2) Perforate. (3) Test. (4) Wash with 250 gals BDA. (5) Fracture with 6,400 gals #5 Burner Fuel containing 1# Sand/gal (unless zone tests predominantly water). (6) Test.
8. Test perforated interval from 4683-4693'. (1) Set bridge plug at 4710'. (2) Perforate. (3) Test. (4) Wash with 250 gals BDA. (5) Fracture with 3,200 gals #5 Burner Fuel containing 1# Sand/gal (unless zone tests predominantly water). (6) Test.
9. Test perforated interval from 4425-4442'. (1) Set bridge plug at 4455'. (2) Perforate. (3) Test. (4) Wash with 250 gals BDA. (5) Fracture with 6,800 gals #5 Burner Fuel containing 1# Sand per gal (unless zone tests predominantly water). (6) Test.
10. Put on pump, commingling old and new zone production.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City
Lease No. 066357
Unit Walker Hollow



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
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NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	X	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 2, 1960, 19__

Hamberger Unit

Well No. 1 is located 2110 ft. from N line and 660 ft. from W line of sec. 11
SW 1/4 Section 11 T5 23E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Walker Hollow Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of ~~the land surface~~ above sea level is 5208 ft. G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

T.D. 5754', PSTD 5345', present potential 23 BO & 3 BW per day from perforations 5271-77' and 5281-85' in the Green River Formation.

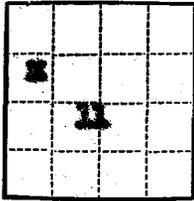
It is intended to test presently plugged off open hole interval from 5391 to 5754' and perforated intervals from 4425-42', 4683-93', 4812-30', 5379-87', all in the Green River Formation.

See attachment for detailed procedure.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company HUMBLE OIL & REFINING COMPANY, Carter Division
Box 3062
 Address Durango, Colorado

By COPY (ORIGINAL SIGNED) B. M. BRADLEY
B M Bradley
 Title District Superintendent



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **SIG**

Lease No. **066257**

Unit **Walker Hollow**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	XX
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	XX
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 23, 19 60

Bamberger Unit

Well No. **1** is located **2110** ft. from ^[N]~~300~~ line and **460** ft. from ^[E]~~300~~ line of sec. **11**

SW NW Section 11 **7S** **23E** **S1M**
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Walker Hollow **Montezuma** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **5808 G.L.** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Job completed **5-19-60.**

SEE ATTACHED SHEET FOR DETAILS OF JOB.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Humble Oil & Refining Company - Carter Division**

Address **P. O. Box 3087**

Durango, Colorado

By **H. J. FLATT** (ORIGINAL SIGNED) **COPIED**

Title **Dist. Supt.**

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

SLC - 066357

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Walker Hollow Unit

8. FARM OR LEASE NAME

Bamberger Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Section 11-7S-23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Humble Oil & Refining Company

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

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

SW NW (2110' FNL & 660' FWL) of Section 11

14. PERMIT NO.

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

5,213' KB

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

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

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(Other) Convert to Water Input Well

(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.)*

This well was originally completed 10-22-53 as an oil well producing 109 BO and 5 BW per day, through perforations 5281-85', 5271-77', 4735-43' and 4327-30'. An additional interval, 4425-42', was opened in April 1960. This well is currently producing 15 BO and 31 BW per day. It is Humbles intention to convert this oil well to a water injection well.

Perforate 5219-24' and 5239-43' with 2 SPF. Clean out to FBTD 5293'. Spot 75 bbls. of distillate with 30 gallons of Enjay 7816 paraffin solvent down open ended tubing at 5285'. Soak overnight and reverse circulate with hot water containing 1% Surfactant (Enjay 7655). Circulate hole with hot surfactant solution for approximately 4 hours to clean. Set packer on tubing at approximately 4250', connect well to injection system, and inject into zones 5271-85' (8d), 5219-43' (8c), 4735-43' (5c), 4425-42' (4c) and 4327-30' (4a).

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE 10-31-69

BY Allen B. Feight

cc: 2 - Utah Oil & Gas Conservation Commission
1 - Chevron Oil Company

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

SIGNED J. Roy Dorrrough TITLE Dist. Supt. DATE 10-23-69

(This space for Federal or State office use)

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

Bamberger Unit No. 1 - Report of Fracture-Treatment Continued:

Bridge plug set at 4785', full bore packer at 4680'. Circulated hole with 125 bbls Ashley crude before setting packer. Pressured up annulus to 1500#, pumped into formation at 3000# at rate of 8 bbls per minute. Fracture with 10,000 gallons #5 burner fuel plus 15,000# sand at 4500# pressure at 6.8 bbls per minute. Displaced with 55 bbls Ashley crude at 4200# pressure at 6.9 bbls per minute. Maximum pressure 4800#, final pressure 4200#. Pressure dropped to 2100# after pumps were shut down. Dropped to 975# after 1 hour. Shut well in over night. Flowed 7 bbls oil while bleeding off pressure, swabbed to 2600' with fluid level at 2100', swabbed 32 bbls oil. Pulled packer and retrievable bridge plug. Ran tubing, rods and pump. Tubing set at 5231'. Put well on pump, recovered all load oil and diesel. Pumped 140 bbls oil and 32 bbls water in first full 24 hours. Pumped 126 bbls oil and 27 bbls water next 24 hours. Completed for average 133 bbls oil and 29 bbls water per day.

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

5. LEASE DESIGNATION AND SERIAL NO.

SLC - 066357

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.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Water Injection Well</p> <p>2. NAME OF OPERATOR Mobile Oil & Refining Company</p> <p>3. ADDRESS OF OPERATOR P. O. Box 120, Denver, Colorado 80201</p> <p>4. LOCATION OF WELL: (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW 1/4 (2110' FWL & 660' FWL) of Section 11.</p> <p>14. PERMIT NO.</p>	<p>7. UNIT AGREEMENT NAME Walker Hollow Unit</p> <p>8. FARM OR LEASE NAME Bamberger Unit</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Walker Hollow</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 11-78-23E</p> <p>12. COUNTY OR PARISH Uintah</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,218' KB.</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	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) Convert to Water Injection <input checked="" 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.)*

Pulled rods and tubing. Perforated 8c some 5219-24' & 5239-43' with 2 SFF. Ran tubing with Baker Model A packer. Spotted 75 barrels distillate with 30 gallons Enjay 7816 chemical at 5285' and displaced with 26 barrels of water, shut in and let soak overnight. Circulated well with hot surfactant water for 4 hours. Set packer at 4241', pressure tested and hooked to injection plant. Started injecting water on 12-9-69 at a rate of 1076 BPD at 700#.

cc: Utah oil & Gas Conservation Commission

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

SIGNED <u>J. Roy Darrrough</u>	TITLE <u>Dist. Supt.</u>	DATE <u>1-2-70</u>
(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 re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SLC - 066357

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

--

7. UNIT AGREEMENT NAME

Walker Hollow Unit

8. FARM OR LEASE NAME

Walker Hollow Unit

9. WELL NO. 26

(Formerly Bamberger Unit #1)

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Sec 11-7S-23E

14. PERMIT NO.

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

5218' KB

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(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.)*

Squeeze Zone 4425-42' w/50 sacks cement. This zone takes most of the injected water and is not productive in this area.

Water frac zones 4327-30' and 5219-43' w/15,000 gallons of gelled water and 15,000 # sand to improve injectivity.

cc: - 2 - Utah Oil & Gas Conservation Commission
1 - Chevron - Vernal
1 - Midland

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 10-15-71

BY *Charles B. Ferguson*

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

SIGNED

John F. Kuhn

TITLE

District Superintendent

DATE

9-10-71

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

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 AND SERIAL NO. SLC - 066357
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection Well	7. UNIT AGREEMENT NAME Walker Hollow Unit	
2. NAME OF OPERATOR Humble Oil & Refining Company	8. FARM OR LEASE NAME Walker Hollow Unit	
3. ADDRESS OF OPERATOR P O Box 120 Denver, Colorado 80201	9. WELL NO. 26	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SWNW (2110' FNL & 660' FWL) of Section 11	10. FIELD AND POOL, OR WILDCAT Walker Hollow	
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 11-7S-23E	
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5218' KB	12. COUNTY OR PARISH Uintah
		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 checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

10-11-71 - Set BP @ 4460', spotted 2 sx frac sand on BP, tested BP OK. Set packer @ 4300', squeezed perfs 4425-42' w/100 sx cement, Max press 2200#, min 1400#, displaced all cement to perfs, could not get standing pressure, SI overnight. Tested squeeze job, did not hold. Pumped into formation 2 1/2 BPM @ 2200#. Squeezed perfs 4425-42 w/100 sx cement, w/80 sx in formation had standing pressure of 2400#, SI overnight. Tested squeeze job to 2500# held OK. Drilled out cement 4390-4442', ran tbg w/packer set @ 4300', tested squeeze job after drilling out, held OK @ 2500#. Moved BP to 5260' set & tested OK. Set packer @ 5190', fraced zone 5219-43' as follows: 500 gals HCl acid; 7000 gals prepad @ 3500#; 3000 gals pad @ 3500#; 4000 gals pad w/4000# 20-40 sand @ 3700#; 900 gals pad w/2#/gal 10-20 sand. Sanded out w/1800# sand in formation @ 3700#, Inst SIP 1250, reversed out tbg, reset packer & SI overnight. Overnight press on tbg 500#. Released packer washed out 30' sand on top of BP. Moved BP to 4350' set @ & tested OK, set packer @ 4300', fraced zone 4327-30' as follows: 200 gals 15% HCl, formation plugged up @ 4000#, spotted acid across perfs & broke to 14 BPM @ 3900#; 7000 gals prepad @ 3900#, 2000 gals pad w/2000# 10-20 sand @ 3700#, 500 gals pad w/2#/gal 10-20 sand, sanded out w/1000# sand in formation. Inst SIP 1300#, reversed out tbg, reset packer SI overnight. Overnight press on tbg 500#. Released packer & washed out 25' sand on top of BP. Pulled BP & packer, ran 2 1/2" EUE tbg w/Baker Model AD packer set @ 4241'. Started injecting water @ 4 PM 10-17-71. On Test 10-21-71 injected 1005 BW at 2200#. Job complete

cc: 2 - Utah O&G Conservation Commission
1 - Chevron 1 - Midland

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

SIGNED *John F. Kuhlman* TITLE *Acting* District Superintendent DATE 11-19-71

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SLC-066357

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Walker Hollow Unit

8. FARM OR LEASE NAME

Walker Hollow Unit

9. WELL NO.

26

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Sec. 11-7S-23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER Water Injection Well

2. NAME OF OPERATOR

Humble Oil & Refining Company

3. ADDRESS OF OPERATOR

P. O. Box 120, Denver, Colorado 80201

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

2110' FNL, 660' FWL Sec. 11

14. PERMIT NO.

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

5218' 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) Open new zone to waterflood

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 workover rig 8-7-72. Pulled tubing and packer. Perforated 4685-94', 2 SPF. Ran retrievable BP & packer. Acidized with 100 gals. 15% BDA w/10% Musol. Injected 50 BW at 4 BPM. Pulled tbg., packer & BP. Ran tubing w/packer and returned well to injection service 8-9-72. Current injection rate 576 BWPD at 1900#. Injection prior to workover 295 BWPD at 1900#.

2cc: Utah Division of Oil & Gas Conservation
lcc: Chevron
lcc: Oil & Gas Acctg., Midland

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

SIGNED

John F. Richardson

TITLE

Dist Chief Engr

DATE

9-21-72

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

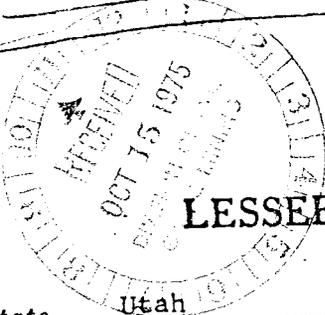
CONDITIONS OF APPROVAL, IF ANY:

CORRECTED COPY

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE
LEASE NUMBER
UNIT Walker Hollow Unit.....



LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Walker Hollow

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1975

Agent's address P. O. Box 1600 Company Exxon Corporation
Midland, Texas 79701 Signed [Signature]
Phone (915) 684-4411 Agent's title Unit Head, Oil & Gas Acctg.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Ft. OF GAS (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS	
										(If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)	
							Current Mo. Bbls. Inj.	Cum. Bbls. Inj.		PSIG	
WALKER HOLLOW UNIT SW SE 12	7S	23E	4		Casing		-		95107		
					Tubing		29,610		3961894	1600	
SW SE 7	7S	24E	6		Casing		-		137397		
					Tubing		12,342		2479843	1900	
SW SE 8	7S	24E	8		Casing		-		168519		
					Tubing		20,183		2840816	1600	
SW NW 9	7S	24E	10		Tubing		16,625		2037840	1600	
SW SE 4	7S	24E	12		Tubing		1,930		1412843	1900	
SW SW 12	7S	23E	17		Tubing		25,716		2442190	2000	
SW SE 1	7S	23E	18		Tubing		48,709		2429472	1000	
SW SE 11	7S	23E	22		Tubing		3,339		2154410	1600	
SW NW 11	7S	23E	26		Tubing		2,470		943328	2000	
SW NW 8	7S	24E	27		Tubing		12,192		1036048	2000	
SW SE 2	7S	23E	30		Tubing		4,714		611473	2000	
SW NE 9	7S	24E	31		Tubing		-		271760	-	
SW SW 7	7S	24E	34		Tubing		8,406		568317	2000	
TOTAL BARREL INJECTED								216,288		23,591,257	

NOTE.—There were runs or sales of oil; M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SLC-066357

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Water Injection Well

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
Box 1600 Midland, Texas 79701

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

2110' FNL, 660' FWL, Section 11

7. UNIT AGREEMENT NAME
Walker Hollow Unit

8. FARM OR LEASE NAME
Walker Hollow Unit

9. WELL NO.
26

10. FIELD AND POOL, OR WILDCAT
Walker Hollow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11-7S-23E

14. PERMIT NO.

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

5208 GR

12. COUNTY OR PARISH
Uintah

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
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*

(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.)*

Propose to Acidize Perforations: 5294 1/2 - 95', 5281-85',
5271-77', 5239-43', 5219-24',
4735-43', 4327-30'.

Work to begin upon receipt of approval.

2cc: Utah O&G Commission
Chevron
OKla. City

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: August 8, 1977
BY: P. H. Ansell

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

SIGNED [Signature]

TITLE Unit Head

DATE 8-1-77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

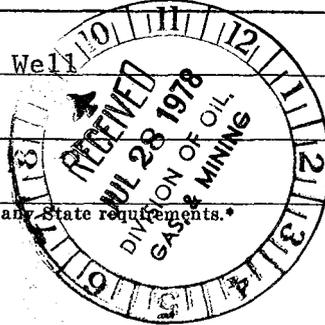
Form approved.
Budget Bureau No. 42-R1424.
6. LEASE DESIGNATION AND SERIAL NO.

SLC-066357

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection Well		7. UNIT AGREEMENT NAME Walker Hollow Unit
2. NAME OF OPERATOR Exxon Corporation		8. FARM OR LEASE NAME Walker Hollow Unit
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702		9. WELL NO. 26
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2110' FNL, 600' FWL, Section 11		10. FIELD AND POOL, OR WILDCAT Walker Hollow
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5208' GR	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 11 7S-23E
		12. COUNTY OR PARISH Uintah
		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 checked="" type="checkbox"/>	(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.)*

In addition to the attached procedure, we wish to amend workover request to include:

- Drill out bridge plug @ 5300'
- Set new bridge plug @ 5330'
- Acidize perforation @5305-10'

Work is to begin upon receipt of approval.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: July 28, 1978
BY: J. H. Inscull

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

SIGNED Maxin Ochw TITLE Unit Head DATE 7-21-78

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Walker Hollow Unit #26
Recommended Workover Procedure

1. Shut in well. Backflow well until well dies. Haul water to pit at T/B #1.
2. MIRU. Install dual ram manual BOP.
3. Pull 2½" tubing and Baker Mod AD packer. Repair packer as necessary.
4. Run a scraper on tubing to approximately 5300'. Pull scraper.
5. Run a Baker Mod AD packer on 2½" tubing. Set packer at approx. 4295'. RDMO.
6. Pump 2000 gal 15% HCl containing 10% Corexit 7610 down the tubing. Do not exceed 1500 psi surface pressure* or 1 BPM injection rate. Drop 2 ball sealers per minute. Flush with 64 bbl source water. Ball sealer size - 3/4" nylon core, with rubber cover.
7. Backflow well, to drop balls off, until well dies.
8. Return well to injection.

* Maximum surface pressure may temporarily be exceeded to establish injection.

Total acid - 2000 gal
Total Corexit 7610 - 200 gal

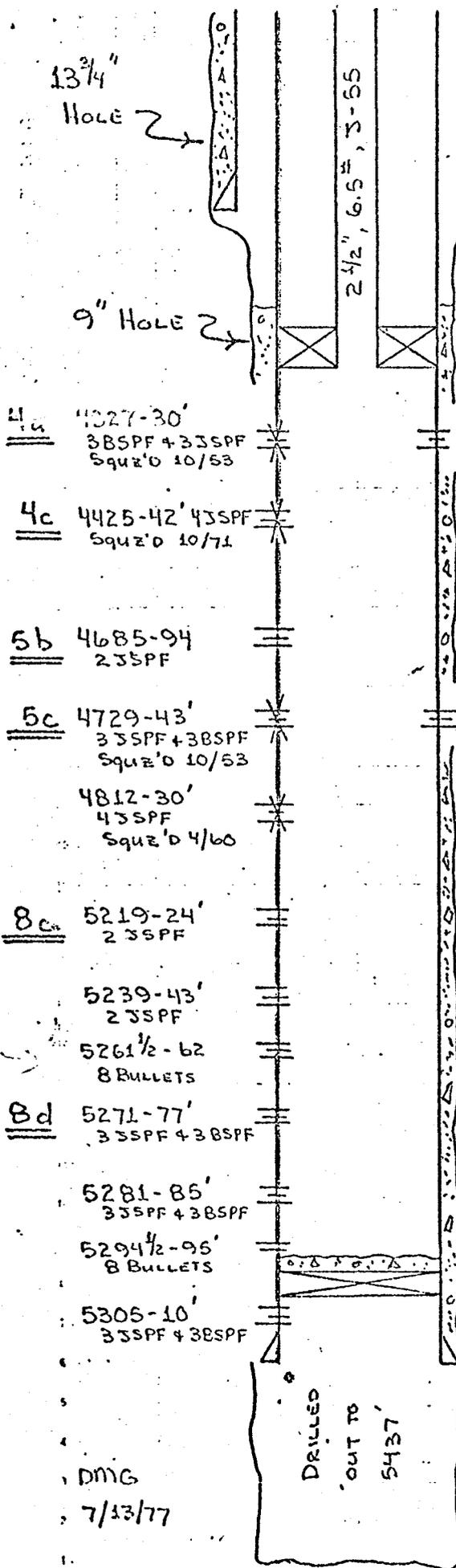
DMG:bsb
7-25-77

WALKER HOLLOW UNIT #26

ZERO IS 10' ABOVE GROUND LEVEL

10 3/4" 40.5# S-80 SET @ 534' CMT'D
w/275 SX CMT CIRC.

TOC 3158' (TEMP SURV)
BAKER MOD AD PKR @ 4295'



4327-30' REPERF 10/53 WITH 3 BSPF + 3 BSPF

4a 4327-30'
3 BSPF + 3 BSPF
Squaz'd 10/53

4c 4425-42' 43SPF
Squaz'd 10/71

5b 4685-94
23SPF

5c 4729-43'
33SPF + 38SPF
Squaz'd 10/53

4735-43' REPERF 10/53 WITH 4 BSPF

4812-30'
43SPF
Squaz'd 4/60

8c 5219-24'
23SPF

5239-43'
23SPF

5261 1/2 - 62
8 BULLETS

8d 5271-77'
33SPF + 38SPF

5281-85'
33SPF + 38SPF

5294 1/2 - 95'
8 BULLETS

Cmt 5295 to 5300'
CIBP @ 5300'

5305-10'
33SPF + 38SPF

7" 23# S-55 SET @ 5391' CMT'D w/425 SX
+ 3% GEL

DRILLED
OUT TO
5437'

DWG
7/13/77

TD 5754'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other Water Injection Well

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2110' FNL, 600' FWL, Sec. 11
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE SLC-066357	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME Walker Hollow Unit	
8. FARM OR LEASE NAME Walker Hollow Unit	
9. WELL NO. 26	
10. FIELD OR WILDCAT NAME Walker Hollow	
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec. 11, 7S-23E	
12. COUNTY OR PARISH Uintah	13. STATE Utah
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5208' GR	

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

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

Please refer to attached.

Subsurface Safety Valve: Manu. and Type _____ Ft.

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

SIGNED W. Stipton TITLE Unit Head DATE 11-18-78

(This space for Federal or State office use)

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

Walker Hollow Unit #26
2110' FNL & 660' FWL
Section 11-7S-23E
Uintah County, Utah

INJECTION WELL WORKOVER ANNOUNCED 8-8-78

Exxon WI 100% - AFE #83795 - to CO fill & drill out CIBP to inj into 8d & La zones & acidize to incr injectivity.

8-7-78 - MIRU Utah Csg Pullers - unseated pkr - now back-flwg well while repairing rig. (AFE #83795, \$30,000 - cost to date \$827.)

8-8 - RD unit to work on WHU #29.

8-9 - SI - WO Unit. (AFE #83795, \$30,000 - cost to date \$2,877.)

8-10 - MIRU Utah-Colorado csg pullers unit - SION - prep to pull tbg & pkr. (AFE #83795, \$30,000 - cost to date \$3,031.)

8-11 - backflwd 80 BSW - pulled 2½" tbg w/pkr - ran 6-1/8" Clusterite shoe & 7" csg scraper & 4 4-11/16" DC's on 2½" tbg - ran to 4390' - SION - prep to finish running tbg & mill over BP. 9AFE #83795, \$30,000 - cost to date \$3,794.)

8-12 - Finished running Clusterite mill - washed scale & paraffin 5270-5300' - started milling on BP @ 5300' - SION.

8-13 - Finished milling out BP - lowered to 5400' - circ hole clean - pulled 2½" tbg w/DC/s, scraper & mill - SION. (AFE #83795, \$30,000 - cost to date \$5,485.)

8-14 - SI for Sunday - prep to set 7" BP @ 5350'.

8-15 - SD due to rain -now prep to set 7" BP.

8-16 - MIRU GO Int'l - set BP on wireline @ 5342' - dumped 5' cmt on top BP for PBD of 5337' - ran 7" Baker pkr on 2½" tbg to 4295' - circ hole w/treated wtr - set pkr - RU Howco - spotted 1650 gal across perms 4327-5310' - RDMO Howco & pulling unit - prep to acidize w/4200 gal acid. (AFE #83795, \$30,000 - cost to date \$8,451.)

INJECTION WELL WORKOVER COMPLETED 8-16-78 - SUCCESSFUL

8-17-78 - RU Howco - acidized perms 4327-5310' w/4200 gal 15% NE acid, using 17 ball sealers in each 420 gal acid, total 190 ball sealers - flushed w/40 BFW - max press 2000#, min 1900# - AIR 4.5 BPM - ISIP 1400#, 45 min 700# - good ball action - hooked up well for inj - started inj @ 3:00 PM 8-16-78 @ 1080 bbls @ 700# - FRW 8-16-78. New PBD 5337'. (Expense AFE #83795, \$30,000 - est final cost \$18,000.)

Walker Hollow Unit #26
2110' FNL & 660' FWL
Section 11-7S-23E
Uintah County, Utah

Sample of produced water; to be reinjected. Also formation water (Producing and injection format are the same.)

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
 P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
 P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

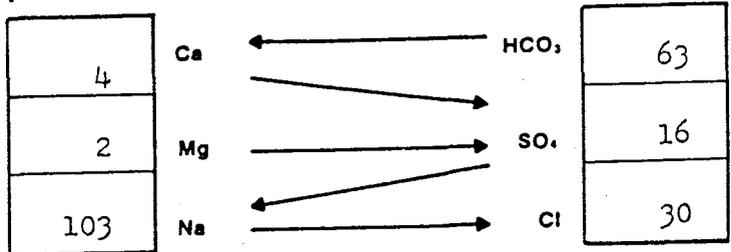
COMPANY Exxon Company USA ADDRESS Vernal, Utah DATE: 7-15-83

SOURCE Walker Hollow Unit # 3 DATE SAMPLED 7-14-83 ANALYSIS NO. 1150

Analysis	Mg/l (ppm)	*Meq/l
1. PH	<u>7.6</u>	
2. H ₂ S (Qualitative)	<u>2.5 ppm</u>	
3. Specific Gravity	<u>1.0050</u>	
4. Dissolved Solids		
5. Suspended Solids		
6. Anaerobic Bacterial Count	<u>100-999</u> C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>3,160</u>	
8. Bicarbonate (HCO ₃)	<u>3,855</u> ÷61	<u>63</u> HCO ₃
9. Chlorides (Cl)	<u>1,062</u> ÷35.5	<u>30</u> Cl
10. Sulfates (SO ₄)	<u>750</u> ÷48	<u>16</u> SO ₄
11. Calcium (Ca)	<u>78</u> ÷20	<u>4</u> Ca
12. Magnesium (Mg)	<u>26</u> ÷12.2	<u>2</u> Mg
13. Total Hardness (CaCO ₃)	<u>300</u>	
14. Total Iron (Fe)	<u>0.2</u>	
15. Barium (Qualitative)	<u>0</u>	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>2</u>		<u>146</u>
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		<u>57</u>		<u>4,788</u>
Na ₂ SO ₄	71.03		<u>16</u>		<u>1,136</u>
Na Cl	58.46		<u>30</u>		<u>1,754</u>

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS _____

Water from source well- To be used as injection fluid in
4 Walker Hollow Unit wells.

LABORATORY WATER ANALYSIS

To: Exxon Company USA
Vernal, UT

Well No. Source Water (Chevron)
Legal Desc. Sec. 1-T6S-R22E
County Uintah State Utah

Date Sampled 6-3-82
Sample Location Waterflood Station
Sampled by H. Langen

Formation Green River
Depth 30'
Water B/D _____

pH 6.8
Carbon Dioxide (CO₂) 30
Dissolved Oxygen (O₂) ND
Sulfide as H₂S 0

Specific Gravity 60/60 _____
Resistivity (ohm meters) _____
Saturation Index 70°F +0.05
150°F +0.8

DISSOLVED SOLIDS

Cations	mg/l	me/l
Calcium, Ca	168	8
Magnesium, Mg	29	2
Sodium, Na	138	6
Hardness, total	540	-
Barium, Ba	0	-
Total Dissolved Solids, Calc.	1125	
Total Suspended Solids		

Anions	mg/l	me/l
Carbonate, CO ₃	180	3
Bicarbonate, HCO ₃	500	10
Sulfate, SO ₄	110	3
Chloride, Cl		
Iron, Total		
Iron, Sol.		

PROBABLE MINERAL COMPOSITION

Cations	Anions
<u>8</u> Ca	<u>3</u> HCO ₃
<u>2</u> Mg	<u>10</u> SO ₄
<u>6</u> Na	<u>3</u> CL

Compound	Equiv. wt.	x	meq/l	=	mg/l
Ca (HCO ₃) ₂	81.04	<u>3</u>			<u>243</u>
CaSO ₄	68.07	<u>5</u>			<u>340</u>
CaCL ₂	55.50				
Mg (HCO ₃) ₂	73.17				
MgSO ₄	60.19	<u>2</u>			<u>120</u>
MgCL ₂	47.62				
NaHCO ₃	84.00				
NaSO ₄	71.03	<u>3</u>			<u>213</u>
NaCL	58.46	<u>3</u>			<u>175</u>

Submitted by: T. Lye

Water produced from several Walker Hollow Unit wells- to be reinjected. Also water from Green River formation (Producing and injection formations are the same.)

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
 P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
 P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Exxon Company USA ADDRESS Vernal, Utah DATE: 7-15-83
 SOURCE # 1 FWKO DATE SAMPLED 7-14-83 ANALYSIS NO. 1148

Analysis	Mg/l (ppm)	*Meq/l
1. PH	8.2	
2. H ₂ S (Qualitative)	6.0 ppm	
3. Specific Gravity	1.0100	
4. Dissolved Solids		
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	2,840	
8. Bicarbonate (HCO ₃)	HCO ₃ 3,465	+61 57 HCO ₃
9. Chlorides (Cl)	Cl 1,416	+35.5 40 Cl
10. Sulfates (SO ₄)	SO ₄ 600	+48 13 SO ₄
11. Calcium (Ca)	Ca 38	+20 2 Ca
12. Magnesium (Mg)	Mg 4	+12.2 0 Mg
13. Total Hardness (CaCO ₃)	110	
14. Total Iron (Fe)	0.8	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

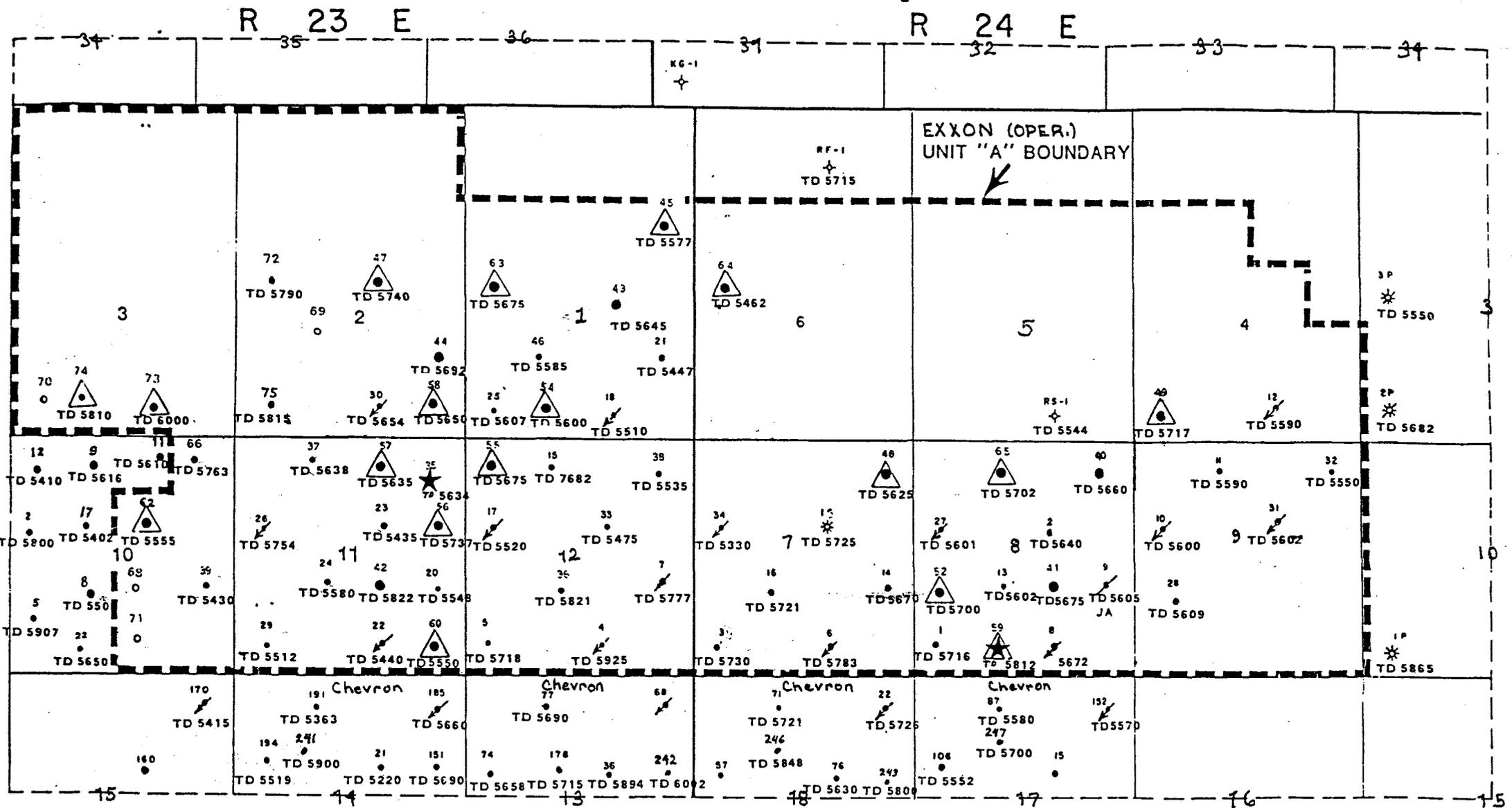
*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		2		162
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		55		4,620
Na ₂ SO ₄	71.03		13		923
Na Cl	58.46		40		2,338

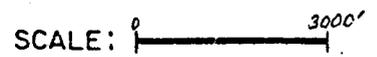
Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS _____

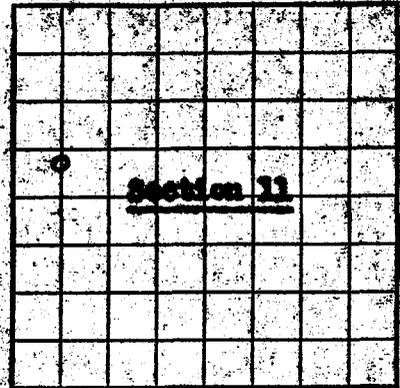


RED WASH FIELD - WALKER HOLLOW UNIT
 UTAH COUNTY, UTAH

- Producing Well
- ↘ Injection Well
- ★ Proposed Injection Well



U. S. LAND OFFICE Salt Lake
 SERIAL NUMBER _____
 LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY
 now Exxon Corporation

Company The Carter Oil Company Address P. O. Box 591, Vernal, Utah
 Lessor or Tract Bamberger Unit Field Walker Hollow State Utah
 Well No. 1 Sec. 11 T. 7N R. 3E Meridian County Uintah
 Location 2110 ft. [S.] of N Line and 660 ft. [E.] of W Line of Sec. 11 Elevation 5208 ft.
(Chart of Bear relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
 Signed COPY ORIGINAL SIGNED H. W. McCORMICK

Date November 5, 1953 Title Dist. Dept.

The summary on this page is for the condition of the well at above date.

Commenced drilling August 3, 1953 Finished drilling October 22, 1953

OIL OR GAS SANDS OR ZONES
 (Denote gas by G)

No. 1, from 4327 to 4330 No. 4, from 5261 to 5282
 No. 2, from 4735 to 4743 No. 5, from _____ to _____
 No. 3, from 5271 to 5277 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>10 3/4</u>	<u>10.5</u>	<u>8</u>	<u>3-80</u>	<u>524</u>			<u>5261</u>	<u>5282</u>	
							<u>5271</u>	<u>5277</u>	
							<u>5281</u>	<u>5282</u>	

MUDDING AND CEMENTING RECORD

Size casing	Whe set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10 3/4</u>	<u>324</u>	<u>275</u>	<u>Halliburton</u>		
	<u>591</u>	<u>125</u>	<u>Halliburton</u>		

PLUGS AND ADAPTERS

H₂O plug—Material _____ Length _____ Depth set _____
 Ads—Material _____ Size _____

SHOOTING RECORD

MARK

STATE OF UTAH
 DIVISION OF OIL, GAS, AND MINING
 ROOM 4241 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 (801) 533-5771
 (RULE I-5 & RULE I-4)

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

IN THE MATTER OF THE APPLICATION OF
Exxon Corporation
 ADDRESS P. O. Box 1600
Midland, TX ZIP 79702
 INDIVIDUAL PARTNERSHIP CORPORATION
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
 INJECT FLUID INTO THE Walker Hollow #26 WELL
 SEC. 11 TWP. 7S RANGE 23E
Uintah 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"/>

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>Walker Hollow Unit</u>	Well No. <u>26</u>	Field <u>Walker Hollow</u>	County <u>Uintah</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NW/4</u> Sec. <u>11</u> Twp. <u>7S</u> Rge. <u>23E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted-Existing Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Injector	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>N/A</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>Unknown</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	State What Oil	
Location of Injection Source(s) <u>Walker Hollow Production</u>	Geologic Name(s) and Depth of Source(s) <u>Green River - 5000'</u>		
Geologic Name of Injection Zone <u>Green River</u>	Depth of Injection Interval <u>4327'</u> to <u>5310'</u>		
a. Top of the Perforated Interval: <u>4327'</u>	b. Base of Fresh Water: <u>Shallower than 300'</u>	c. Intervening Thickness (a minus b) <u>Unknown</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
Lithology of Intervening Zones <u>Shale and Sandstone</u>			
Injection Rates and Pressures Maximum <u>2500</u> B/D <u>2500</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. <u>Not required for existing wells</u>			

State of Texas)

W. H. Crowe for J. K. Lytle
 Applicant

County of Midland)

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

Suscribed and sworn to before me this 6th day of October 19 83

SEAL

My commission expires 11-10-84

Judy Bagwell
 Notary Public in and for Midland Co., Texas

(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 leasehole 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	10-3/4"	534'	275	Surface	Circulation
Intermediate					
Production	7"	5391'	425	3158	Calculation
Tubing	2-7/8"	4295'	Name - Type - Depth of Tubing Packer Baker Model "AD" @ 4295'		
Total Depth 5754'	Geologic Name - Inj. Zone Green River	Depth - Top of Inj. Interval 4327	Depth - Base of Inj. Interval 5310'		

PLEASE TYPE OR USE BLACK INK ONLY

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

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

COUNTY LEASE NO.

API NO. _____

640 Acres
N

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

W _____ E

S
Locate Well Correctly
and Outline Lease

COUNTY Uintah SEC. 11 TWP. 7S RGE. 24E

COMPANY OPERATING Exxon Corporation

OFFICE ADDRESS P. O. Box 1600

TOWN Midland, STATE TX ZIP 79702

FARM NAME Walker Hollow WELL NO. #26

DRILLING STARTED 8-13 1953 DRILLING FINISHED 10/24 1953

DATE OF FIRST PRODUCTION _____ COMPLETED 5/20/53

WELL LOCATED 1/4 SW 1/4 NW 1/4

2110 FT. FROM SL OF 1/4 SEC. & 4620 FT. FROM WL OF 1/4 SEC.

ELEVATION DERRICK FLOOR _____ GROUND _____

TYPE COMPLETION

Single Zone _____ X

Multiple Zone _____

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
10-3/4"	40.5	S-80	534		275		Surface
7"	23	J-55	5391		425		3158

TOTAL DEPTH 5754

PACKERS SET

DEPTH Baker Model "AD" @ 4295

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

COMPLETION & TEST DATA BY PRODUCING FORMATION

1

2

3

FORMATION	Green River		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	4327-5310		
INTERVALS			
ACIDIZED?	w/15% HCl		
FRACTURE TREATED?	Sand Frac		

INITIAL TEST DATA

Date	10/22/53		
Oil, bbl./day	109		
Oil Gravity	29.8		
Gas, Cu. Ft./day	---	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	---		
Water-Bbl./day	5		
Pumping or Flowing	Pump		
CHOKE SIZE			
FLOW TUBING PRESSURE			

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

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

Original signed by:

Telephone _____

Not on record

Name and title of representative of company

Subscribed and sworn before me this _____ day of _____, 19 _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Injector

2. Name of Operator

Exxon Corp. - Reg. Affs. PC#3

3. Address and Telephone No.

P. O. Box 1600, Midland, TX 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2110' FNL, 600' FWL, Sec 11, T7S, R23E (SW, NW) GAS & MINING

5. Lease Designation and Serial No.

SLC-066357

6. If Indian, Allottee or Tribe Name

Uintah

7. If Unit or CA, Agreement Designation

Walker Hollow Unit

8. Well Name and No.

Walker Hollow Unit 26

9. API Well No.

43 -047-05588 15548

10. Field and Pool, or Exploratory Area

Green River

11. County or Parish, State

Uintah, UT

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Acidize, reset packer
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection

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

13. 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.)*

See Attachment

**Accepted by the State
of Utah Division of
Oil, Gas and Mining**

Date: 11-15-90
By: [Signature]

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

Signature: Babette L. Taylor Title: Office Assistant

Date: 11-2-90

(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any: Federal Approval of this Action is Necessary

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.

*See Instruction on Reverse Side

1. Backflow well until dead. If well continues flowing, pump kill weight fluid downhole to kill well.
2. RU wireline company. NU and test class II wireline lubricator according to Exxon guidelines. RIH w/ sinker bar on slickline and check for fill. Contact Mike Roffall at (915) 688-6270 with the depth at which fill was tagged. RD wireline unit.
3. MIRU WSU. NU class III BOP and test according to Exxon guidelines. IF FILL IS TAGGED DEEPER THAN 5315', SKIP TO STEP 5. If fill is tagged shallower than 5315', unset Baker Model 'AD' packer and POOH w/ 2-7/8" tubing.
4. RIH w/ bit and scraper on 2-7/8" tubing and clean out the 7" casing to 5337'. Circulate the wellbore clean with produced water. RIH w/ redressed injection packer and set at 5100'. Hydrotest tubing below slips to 3000 psi while RIH.
5. RU stimulation company and acidize as follows:

Stimulate:

Service Co* DOWEL DOWELL-SCHLUM
 Type Fluid* HCL 15 15% HYDROCHLORIC ACID
 Total Acid Vol 3000 (Gals)
 Max Rate 1 (BPM)
 Max press 2200 (PSI)
 Type Diverter* ROCK SLT ROCK SALT
 Upper Depth 5219 (ft)
 Lower Depth 5310 (ft)
 temp Pkr Depth 5100 (ft)
 Flush Vol 38 (bbls)

Additives:

Function*	amt	Brand name
<u>CORR</u> CORROSION INHIBIT	<u>2 gpt</u>	<u>Dowell A200</u>
<u>MS</u> MUTUAL SOLVENT	<u>50 gpt</u>	<u>Checkersol Plus</u>

(The Checkersol Plus is to be provided by Exxon Chemical. The 50 gallons per thousand gallons of acid is equivalent to a 5% solution. The total volume of Checkersol used is 150 gallons)

- a) Establish injectivity into the formation with produced water. Attempt to establish a 1/2 to 1 BPM rate (or as low a rate as possible with with service company's truck). If the tubing was not hydrotested in step 3, then inject produced water at a rate such that the surface pressure reaches 2200 psi. Monitor backside for returns. This should be done prior to starting with the acid in order to ensure the tubing will not burst. Do not exceed 2200 psi (frac gradient would be exceeded).
- b) Pump the acid in three stages of 1000 gals each. Pump a slug

Procedure by MWR

of diverter between each stage. Each slug of diverter should consist of 10 bbls gelled brine containing 500# graded rock salt. The acid should be pumped at 1/2 to 1 BPM and the surface treating pressure should not exceed 2200 psi.

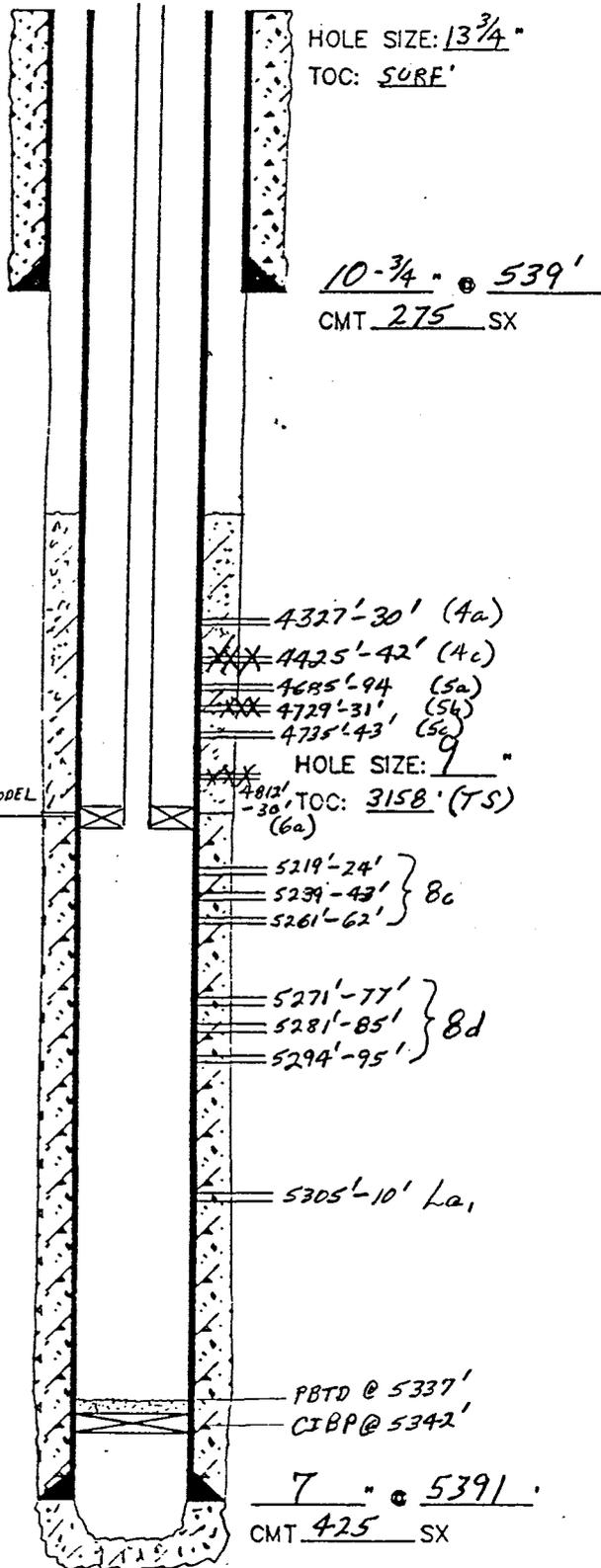
- c) Flush the acid with 38 bbls produced water. Pump flush at 1/2 to 1 BPM, but do not exceed 2200 psi.
 - d) RD stimulation company.
6. Shut well in for approximately 2 hours, then backflow until the returns clean up.
 7. Unset packer and pull up hole to 4260'. Circulate the backside with inhibited packer fluid. The packer fluid should consist of fresh water containing 10 gal Corexit 7672 and 20 gal Corexit 7720 per 100 bbls. Set packer and test backside to 500 psi for 15 min. Perform a MIT test (Notify EPA at least 24 hours prior to starting test). RTI. Report injection volumes and pressures on morning report until notified to final well.

WELLBORE SKETCH AND WELL HISTORY - BEFORE

ELEV.: KB 5218", 10' ABOVE GL

LEASE & WELL NAME: WALKER HOLLOW UNIT #26
 FIELD: Walker Hollow COUNTY: UINTAH ST.: UTAH
 LOCATION: SEC. 11, T-7-S, R-23-E
SW 1/4 of NW 1/4 SECTION

DATE: 8/21/90 BY: DK REV.: _____ BY: _____



CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10 3/4"	40. #	S-80	534'

PRODUCTION CASING

7"	23#	J-55	5391'
----	-----	------	-------

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT

WELL HISTORY:

SPUD: 8/3/53 COMPLETED: 9/20/53

10/53 - INITIAL Completion @ BABBERGER UNIT #1

4/56 - FRAC ZONE 5, B, & 8d.

5/60 - PERF & SQUEEZE 4812'-30'. DRILL OUT TO 5437'. SET CIBP @ 5300' 1/5' CMT. PERF & FRAC ZONE 4.

12/69 - CONVERT TO WIW, PERF ZONE 8.

10/71 - SQUE. 4c ZONE. FRAC ZONE 4a & 8.

8/72 - PERF & ACIDIZE ZONE 5b.

8/78 - DRILL OUT CIBP @ 5300'. Set CIBP @ 5342' 1/5' CMT. ACIDIZE PERFS.

4/83 - INT. RATE @ 1558 BWPD @ 1775 psi.

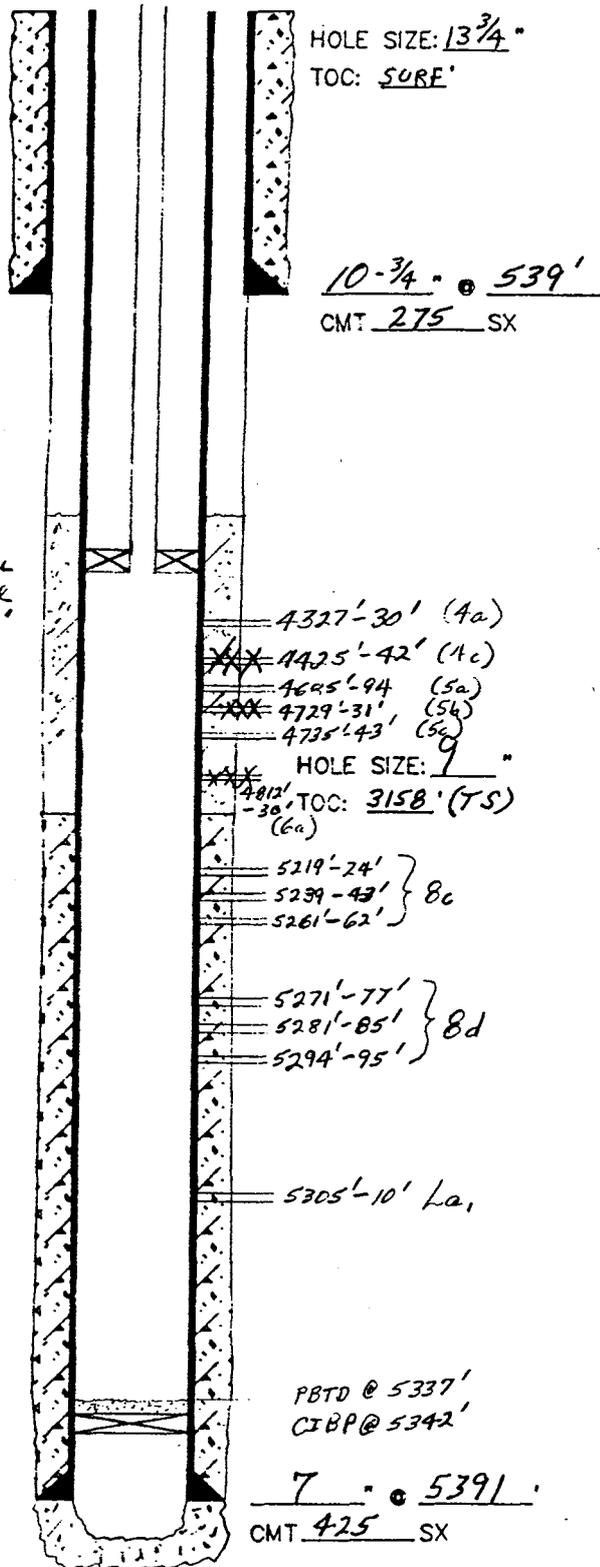
9/83 - LOWER PKR. to 5137'. PERF 1/1000, 15% PWOI.

TD: 5754' PBD: 5437'

WELLBORE SKETCH AND WELL HISTORY - AFTER

ELEV.: KB 5218", 10 ' ABOVE GL

LEASE & WELL NAME: WALKER HOLLOW UNIT #26
 FIELD: Walker Hollow COUNTY: UINTAH ST.: UTR
 LOCATION: SEC. 11, T-7-S, R-23-E
SW 1/4 of NW 1/4 SECTION
 DATE: 8/21/90 BY: OK REV.: _____ BY: _____



CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
<u>10 3/4"</u>	<u>40.</u>	<u>S-80</u>	<u>534'</u>

PRODUCTION CASING

<u>7"</u>	<u>23*</u>	<u>J-55</u>	<u>5391'</u>
-----------	------------	-------------	--------------

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT

WELL HISTORY:

SPUD: 8/3/53 COMPLETED: 9/20/53

10/53 - INITIAL completion @ BAMBERGER UNIT #1
4/56 - FRAC ZONE 5, B, & 8d.
3/60 - PERF & SQUEEZE 4812'-30'. DRILL OUT TO
5437'. SET CIBP @ 5300' 1/5' cmt.
 PERF & FRAC ZONE 4.
12/69 - CONVERT TO WIW, PERF ZONE 8.
10/71 - SQUEEZE 4c ZONE. FRAC ZONE 4a & 8.
8/72 - PERF & ACIDIZE ZONE 5b.
8/78 - DRILL OUT CIBP @ 5300'. Set CIBP
 @ 5342' 1/5' cmt. ACIDIZE PERFS.
4/83 - INT. RATE @ 1558 BWPD @ 1775 psi.
9/83 - LOWER PKR. to 5137'. PERF 1/1000, 15%
 PWOI.

TD: 5754' PBD: 5437'

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on re-verse side)

5. LEASE DESIGNATION AND SERIAL NO. SLC-066357
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Walker Hollow Unit
8. FARM OR LEASE NAME Walker Hollow Unit
9. WELL NO. 26
10. FIELD AND POOL, OR WILDCAT Green River
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 11 - 7S - 23E
12. COUNTY OR PARISH Unitah
13. STATE Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Exxon Corp. Attn: Sharon B. Timlin

3. ADDRESS OF OPERATOR
P. O. Box 1600, Midland, TX 79702 915-688-7509

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2110' FNL and 600' FWL from Sec. 11

14. PERMIT NO.
43-047-05588 *W/W*

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

16. *15548* 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"/>	

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

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

2-21-91 well tested, witnessed by Gus Stoltz
beginning 422#
ending 425#

RECEIVED
MAR 11 1991
DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct
SIGNED Sharon B. Timlin TITLE Staff Office Assistant DATE 3-6-91

(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 re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SLC - 066357

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.)

RECEIVED

1. OIL WELL GAS WELL OTHER

Water Injection Well

UNIT AGREEMENT NAME

Walker Hollow Unit

FARM OR LEASE NAME

Walker Hollow Unit

2. NAME OF OPERATOR

Humble Oil & Refining Company

3. ADDRESS OF OPERATOR

P O Box 120, Denver, Colorado 80201

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

SW NW (2110' FNL & 660' FWL) of Section 11

**DIVISION OF (Formerly Bamberger Unit #1)
OIL GAS & MINING**

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Sec 11-7S-23E

14. PERMIT NO.

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

5218' KB

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(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.)*

Squeeze Zone 4425-42' w/50 sacks cement. This zone takes most of the injected water and is not productive in this area.

Water frac zones 4327-30' and 5219-43' w/15,000 gallons of gelled water and 15,000 # sand to improve injectivity.

cc: - 2 - Utah Oil & Gas Conservation Commission
1 - Chevron - Vernal
1 - Midland

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

SIGNED

John F. Kuhn

TITLE **District Superintendent**

DATE **10-10-71**

(This space for Federal or State office use)

APPROVED BY

Leo P. Kozla

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Utah-0EG

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number:

SLC-066357

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Walker Hollow Unit

8. Well Name and Number:

Walker Hollow Unit #26

9. API Well Number:

43-047-05588-15548

10. Field and Pool, or Wildcat:

Green River

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

FEB 28 1994

2. Name of Operator:

Exxon Corp.

3. Address and Telephone Number:

PO Box 1600, Midland, TX 79702 (915) 688-7875

4. Location of Well

Footages: 2110' FNL & 600' FWL

QQ, Sec., T., R., M.: (SWNW) Sec 11 T7S-R23E

County: Uintah

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 Correct well name
- 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.)

The subject well's name has been changed from the Bamburger Federal #1 to Walker Hollow #26

13.

Name & Signature:

Stephen J. Johnson

Title: Regulatory Specialist

Date: 2-22-94

(This space for State use only)

EXXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

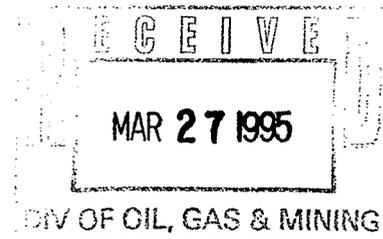
MIDLAND PRODUCTION ORGANIZATION

OPERATIONS INTEGRITY

March 23, 1995

Operator Change
Walker Hollow (Green River) Unit
Summit County, Utah

Utah Oil & Gas Conservation Commission
Utah Division of Oil, Gas & Mining
355 West North Temple
State Office Building
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203



Attention: Leisha Cordova

Effective April 1, 1995, Citation Oil & Gas Corp. will replace Exxon Corp. as operator of the Walker Hollow (Green River) Unit. Attached is a list of locations, API numbers and lease numbers for wells in the subject unit.

Please direct questions concerning this property transfer to me at (915) 688-7875.

Sincerely,

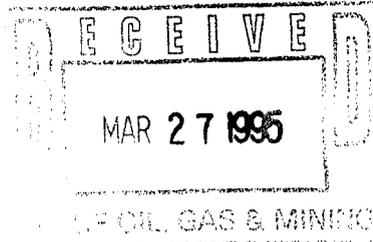
A handwritten signature in black ink, appearing to read "S. Johnson".

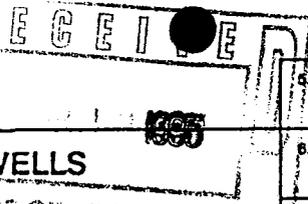
Stephen Johnson

SJJ/mym
Enclosure

WALKER HOLLOW (GREEN RIVER) UNIT WELLS

WELL	1/4 SEC	S-T-R	API NUMBER	LEASE NUMBER
1	SWSW	8-7S-24E	4304715554 ✓	U-02512
2	SWNE	8-7S-24E	4304715556 ✓	SLC-066357
3	SWSW	7-7S-24E	4304715557 ✓	SLC-066357
4	SWSE	12-7S-23E	4304716501 <i>w/w</i>	SLC-066357
5	SWSW	12-7S-23E	4304715558 ✓	SLC-066357
6	SWSE	7-7S-24E	4304716502 <i>w/w</i>	SLC-066357
7	NESE	12-7S-23E	4304715559 <i>w/w</i>	SLC-066357
8	SWSE	8-7S-24E	4304716503 <i>w/w</i>	U-02512
10	SWNW	9-7S-24E	4304715561 <i>w/w</i>	U-02512
11	NENW	9-7S-24E	4304715562 ✓	U-02512
12	SWSE	4-7S-24E	4304716504 <i>w/w</i>	SLC-066313
13	NESW	8-7S-24E	4304715563 ✓	U-02512
14	NESE	7-7S-24E	4304715564 ✓	SLC-066357
15	NENW	12-7S-23E	4304715565 ✓	SLC-066357
16	NESW	7-7S-24E	4304715566 ✓	SLC-066357
17	SWNW	12-7S-23E	4304715567 <i>w/w</i>	SLC-066357
18	SWSE	1-7S-23E	4304715568 <i>w/w</i>	SLC-066312
20	NESE	11-7S-23E	4304715569 ✓	SLC-066357
21	NESE	1-7S-23E	4304715570 ✓	SLC-066312
22	SWSE	11-7S-23E	4304715571 <i>w/w</i>	SLC-066357
23	SWNE	11-7S-23E	4304715572 ✓	SLC-066357
24	NESW	11-7S-23E	4304715573 ✓	SLC-066357
25	SWSW	1-7S-23E	4304730040 ✓	SLC-066312
26	SWNW	11-7S-23E	4304715548 <i>w/w</i>	SLC-066357
27	SWNW	8-7S-24E	4304730082 <i>w/w</i>	SLC-066357
28	NWSW	9-7S-24E	4304730092 ✓	U-02512
29	SWSW	11-7S-23E	4304730093 ✓	SLC-066357
30	SWSE	2-7S-23E	4304730094 <i>w/w</i>	ML-3175
31	SWNE	9-7S-24E	4304711512 <i>w/w</i>	U-02512
32	NENE	9-7S-24E	4304730132 ✓	U-02512
33	SWNE	12-7S-23E	4304730133 ✓	SLC-066357
34	SWNW	7-7S-24E	4304730134 <i>w/w</i>	SLC-066357
35	NENE	11-7S-23E	4304730281 <i>w/w</i>	SLC-066357
36	NESW	12-7S-23E	4304730282 ✓	SLC-066357
37	NENW	11-7S-23E	4304730417 ✓	SLC-066357
38	NENE	12-7S-23E	4304730418 ✓	SLC-066357
39	NESE	10-7S-23E	4304730415 ✓	U-02651-C
40	NENE	8-7S-24E	4304730690 ✓	SLC-066357
41	NWSE	8-7S-24E	4304730691 ✓	U-02512
42	NWSE	11-7S-23E	4304730692 ✓	SLC-066357
43	SWNE	1-7S-23E	4304730687 ✓	SLC-066312
44	NESE	2-7S-23E	4304730688 ✓	ML-3175
45	NENE	1-7S-23E	4304730897 ✓	SLC-066312
46	NESW	1-7S-23E	4304730416 ✓	SLC-066312
47	SWNE	2-7S-23E	4304730888 ✓	SLC-066312
48	NENE	7-7S-24E	4304730891 ✓	SLC-066357
49	SWSW	4-7S-24E	4304730892 ✓	SLC-066313
52	NWSW	8-7S-24E	4304730945 ✓	U-02512
54	SESW	1-7S-23E	4304730893 ✓	SLC-066312
55	NWNW	12-7S-23E	4304730894 ✓	SLC-066357
56	SENE	11-7S-23E	4304730911 ✓	SLC-066357
57	NWNE	11-7S-23E	4304730895 ✓	SLC-066357
58	SESE	2-7S-23E	4304730912 ✓	ML-3175
59	SESW	8-7S-24E	4304730946 ✓	U-02512
60	SESE	11-7S-23E	4304730913 ✓	SLC-066357
62	SWNE	10-7S-23E	4304730914 ✓	U-02651-C
63	SWNW	1-7S-23E	4304730916 ✓	SLC-066312
64	SWNW	6-7S-24E	4304730947 ✓	SLC-066313
66	NENE	10-7S-23E	4304731131 ✓	U-02651-C
69	NESW	2-7S-23E	4304731665 ✓	ML-3175
72	SWNW	2-7S-23E	4304731227 ✓	ML-3175
73	SWSE	3-7S-23E	4304731032 ✓	SLC-066312
74	SESW	3-7S-23E	4304731031 ✓	SLC-066357
75	SWSW	2-7S-23E	4304731182 ✓	ML-3175
76	NENW	1-7S-23E	4304731542 ✓	SLC-066312
77	NENE	1-7S-23E	4304731563 ✓	SLC-066312
101	SWNE	7-7S-24E	4304715555 ✓	SLC-066357





SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Walker Hollow Unit

8. Well Name and Number:

see below

9. API Well Number:

see below

10. Field and Pool, or Wildcat:

Walker Hollow (Green River)

1. Type of Well: OIL GAS OTHER:

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

3. Address and Telephone Number:
8223 Willow Place S. Ste 250 Houston, TX 77070 713-469-9664

4. Location of Well

Footages:

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

County: Uintah

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 Change of Operator
- 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.)

Effective April 1, 1995 Citation Oil & Gas Corp. took over as operator of the Walker Hollow Unit from Exxon Company, USA.

The wells involved are as follows:

Walker Hollow Unit #1	43-047-15554	Sec. 8 T7S R24E
Walker Hollow Unit #2	43-047-15556	Sec. 8 T7S R24E
Walker Hollow Unit #3	43-047-15557	Sec. 7 T7S R24E
Walker Hollow Unit #4	43-047-16501	Sec. 12 T7S R23E
Walker Hollow Unit #5	43-047-15558	Sec. 12 T7S R23E
Walker Hollow Unit #6	43-047-16502	Sec. 7 T7S R24E
Walker Hollow Unit #7	43-047-05580	Sec. 12 T7S R23E
Walker Hollow Unit #8	43-047-16503	Sec. 8 T7S R24E
Walker Hollow Unit #9	43-047-15560	Sec. 8 T7S R24E
Walker Hollow Unit #10	43-047-15561	Sec. 9 T7S R24E

13.

continued on back

Name & Signature: Sharon Ward *Sharon Ward* Title: Production Reg. Supv. Date: 4-6-95

(This space for State use only)

The following are the list of wells involved in the change of operator on the Walker Hollow Unit from Exxon Company USA to Citation Oil & Gas Corp. effective April 1, 1995.

Walker Hollow Unit #11	43-047-15562	Sec. 9 T7S R24E
Walker Hollow Unit #12	43-047-16504	Sec. 4 T7S R24E
Walker Hollow Unit #13	43-047-15563	Sec. 8 T7S R24E
Walker Hollow Unit #14	43-047-15564	Sec. 7 T7S R24E
Walker Hollow Unit #15	43-047-15565	Sec.12 T7S R23E
Walker Hollow Unit #16	43-047-15566	Sec. 7 T7S R24E
Walker Hollow Unit #17	43-047-15567	Sec.12 T7S R23E
Walker Hollow Unit #18	43-047-15568	Sec. 1 T7S R23E
Walker Hollow Unit #20	43-047-15569	Sec.11 T7S R23E
Walker Hollow Unit #21	43-047-15570	Sec. 1 T7S R23E
Walker Hollow Unit #22	43-047-15571	Sec.11 T7S R23E
Walker Hollow Unit #23	43-047-15572	Sec.11 T7S R23E
Walker Hollow Unit #24	43-047-15573	Sec.11 T7S R23E
Walker Hollow Unit #25	43-047-30040	Sec. 1 T7S R23E
Walker Hollow Unit #26	43-047-15548	Sec.11 T7S R23E
Walker Hollow Unit #27	43-047-30082	Sec. 8 T7S R24E
Walker Hollow Unit #28	43-047-30092	Sec. 9 T7S R24E
Walker Hollow Unit #29	43-047-30093	Sec.11 T7S R23E
Walker Hollow Unit #30	43-047-30094	Sec. 2 T7S R23E
Walker Hollow Unit #31	43-047-11512	Sec. 9 T7S R24E
Walker Hollow Unit #32	43-047-30132	Sec. 9 T7S R24E
Walker Hollow Unit #33	43-047-30133	Sec.12 T7S R23E
Walker Hollow Unit #34	43-047-30134	Sec. 7 T7S R24E
Walker Hollow Unit #35	43-047-30281	Sec.11 T7S R23E
Walker Hollow Unit #36	43-047-30282	Sec.12 T7S R23E
Walker Hollow Unit #37	43-047-30417	Sec.11 T7S R23E
Walker Hollow Unit #38	43-047-30418	Sec.12 T7S R23E
Walker Hollow Unit #39	43-047-30415	Sec.12 T7S R23E
Walker Hollow Unit #40	43-047-30690	Sec. 8 T7S R24E
Walker Hollow Unit #41	43-047-30691	Sec. 8 T7S R24E
Walker Hollow Unit #42	43-047-30692	Sec.11 T7S R23E
Walker Hollow Unit #43	43-047-30687	Sec. 1 T7S R23E
Walker Hollow Unit #44	43-047-30688	Sec. 2 T7S R23E
Walker Hollow Unit #45	43-047-30897	Sec. 1 T7S R23E
Walker Hollow Unit #46	43-047-30416	Sec. 1 T7S R23E
Walker Hollow Unit #47	43-047-30888	Sec. 2 T7S R23E
Walker Hollow Unit #48	43-047-30891	Sec. 7 T7S R24E
Walker Hollow Unit #49	43-047-30892	Sec. 4 T7S R24E
Walker Hollow Unit #52	43-047-30945	Sec. 8 T7S R24E
Walker Hollow Unit #54	43-047-30893	Sec. 1 T7S R23E
Walker Hollow Unit #55	43-047-30894	Sec.12 T7S R23E
Walker Hollow Unit #56	43-047-30911	Sec.11 T7S R23E
Walker Hollow Unit #57	43-047-30895	Sec.11 T7S R23E
Walker Hollow Unit #58	43-047-30912	Sec. 2 T7S R23E
Walker Hollow Unit #59	43-047-30946	Sec. 8 T7S R24E
Walker Hollow Unit #60	43-047-30913	Sec.11 T7S R23E
Walker Hollow Unit #62	43-047-30914	Sec.10 T7S R23E
Walker Hollow Unit #63	43-047-30916	Sec. 1 T7S R23E
Walker Hollow Unit #64	43-047-30947	Sec. 6 T7S R24E
Walker Hollow Unit #66	43-047-31131	Sec.10 T7S R23E
Walker Hollow Unit #69	43-047-31665	Sec. 2 T7S R23E
Walker Hollow Unit #72	43-047-31227	Sec. 2 T7S R23E
Walker Hollow Unit #73	43-047-31032	Sec. 3 T7S R23E
Walker Hollow Unit #74	43-047-31031	Sec. 3 T7S R23E
Walker Hollow Unit #75	43-047-31182	Sec. 2 T7S R23E
Walker Hollow Unit #76	43-047-31542	Sec. 1 T7S R23E
Walker Hollow Unit #77	43-047-31563	Sec. 1 T7S R23E
Walker Hollow Unit #78	43-047-31645	Sec. 1 T7S R23E
Walker Hollow Unit #101	43-047-15555	Sec. 7 T7S R24E

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____

(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
OPER. CHG. _____

1. Date of Phone Call: 5-2-95 Time: 8:23

2. DOGM Employee (name) L. CORDOVA (Initiated Call
Talked to:

Name SHARON WARD (Initiated Call - Phone No. (713) 469-9664
of (Company/Organization) CITATION O&G CORP.

3. Topic of Conversation: OPERATOR OF THE "WALKER HOLLOW (GRRV) UNIT?
BLM APRV CITATION 1994 INVESTMENT LP. IS COMPANY CHANGING NAME FROM CITATION
O&G CORP?

4. Highlights of Conversation: _____
MS. WARD "CITATION" CALLED BLM TO CHANGE APRV'L TO CITATION O&G CORP. NOT
CITATION 1994 INVESTMENT LP. PER BLM/SL THE CHANGE SHOULD NOT TAKE LONG.

*BLM/SL - SIMPLE CHANGE, SHOULD ONLY TAKE A COUPLE OF DAYS.

NOTICE OF TRANSFER OF OWNERSHIP

Present operator: Exxon Corp. Telephone: (915) 688-7875

Address: P.O. Box 1600

City: Midland State: TX ZIP: 79702

Well no.: Walker Hollow (Green River) Unit Field or Unit name: _____

Sec.: see attachment Twp.: _____ Rng.: _____ County: Summit Lease no.: see attachment

Effective date of transfer: April 1, 1995

Stephen Johnson
Signature of present operator Stephen Johnson
March 31, 1995
Date

New operator: Citation Oil & Gas Corp.

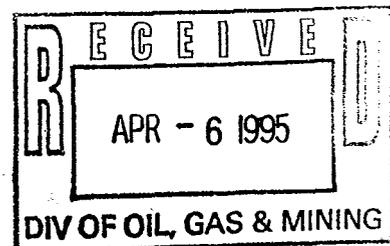
Address: 8223 Willow Place South, Suite 250

City: Houston State: TX ZIP: 77070-5623

Sharon Ward
Signature of new operator Sharon Ward
April 3, 1995
Date

(This space for DOGM approval)

CAUSE # 117-1



Approved by: *A. Hunt* Title: Exxon Manager Date: 5-3-95

WALKER HOLLOW (GREEN RIVER) UNIT INJECTION WELLS

WELL	1/4 SEC	S-T-R	API NUMBER	LEASE NUMBER
4	SWSE	12-7S-23E	4304716501	SLC-066357
6	SWSE	7-7S-24E	4304716502	SLC-066357
7	NESE	12-7S-23E	4304715559	SLC-066357
8	SWSE	8-7S-24E	4304716503	U-02512
10	SWNW	9-7S-24E	4304715561	U-02512
12	SWSE	4-7S-24E	4304716504	SLC-066313
17	SWNW	12-7S-23E	4304715567	SLC-066357
18	SWSE	1-7S-23E	4304715568	SLC-066312
22	SWSE	11-7S-23E	4304715571	SLC-066357
26	SWNW	11-7S-23E	4304715548	SLC-066357
27	SWNW	8-7S-24E	4304730082	SLC-066357
30	SWSE	2-7S-23E	4304730094	ML-3175
31	SWNE	9-7S-24E	4304711512	U-02512
34	SWNW	7-7S-24E	4304730134	SLC-066357
35	NENE	11-7S-23E	4304730281	SLC-066357

CORRECTION TO DIRECTOR'S MINUTES OF SEPTEMBER 21, 1994; ML 44446 BUILDING
STONE/LIMESTONE

The Director's Minutes of September 21, 1994, list State of Utah Building Stone/Limestone Lease ML 44446 as being cancelled for non-payment. Chemcial Lime Company, lessee, has been notified of their default in this matter and with the right to cure, they have complied with this office and provided the required past due rentals with interest and pentalites. Therefore, the Director's Minutes of Septemer 21, 1994, should be corrected to show that ML 44446 was not cancelled for non-payment.

Upon recommendation of Mr. Cooper, the Director approved the correction to the Director's Minutes of September 21, 1994.

* * * * *

TERMINATION OF THE INDIANOLA UNIT

Hunt Oil Company, operator of the Indianola Unit, has furnished this office with evidence that this unit was terminated by the Bureau of Land Management on February 24, 1995.

The records of the following leases should be noted to show the termination of this unit.

ML 41655	Shell Onshore Ventures, Inc.
ML 41658	Shell Onshore Ventures, Inc.

Due to the termination of the unit, the terms of ML 41655 and ML 41658 will be extended until February 24, 1997.

Upon recommendation of Mr. Bonner, the Director noted the termination of the Indianola Unit and approved the extension of ML 41655 and ML 41658.

STATEWIDE BOND OF LESSEE

Citation Oil & Gas Corporation has submitted an \$80,000 State of Utah Statewide Bond of Lessee to cover their oil and gas exploration and development operations on Trust lands. The surety is Gulf Insurance Company, Bond No. 587800.

Upon recommendation of Mr. Bonner, the Director accepted Bond No. 587800 as described above.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

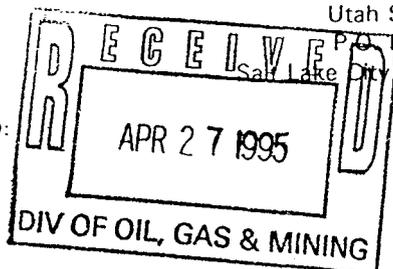
Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

COPY

IN REPLY REFER TO:
UT-922



April 26, 1995

Citation 1994 Investment LP
Attn: Christopher E. Cottrell
8223 Willow Place South, Suite 250
Houston, Texas 77070-5623

Re: Walker Hollow (Green River) Unit
Uintah County, Utah

Gentlemen:

We received an indenture dated March 22, 1995, whereby Exxon Company, U.S.A. resigned as Unit Operator and Citation 1994 Investment Limited Partnership was designated as Successor Unit Operator for the Walker Hollow (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 26, 1995.

Your nationwide (Montana) oil and gas bond No. 0630 will be used to cover all operations within the Walker Hollow (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Assad M. Raffoul

for Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
~~Division of Oil, Gas & Mining~~
Division of Lands and Mineral Operations U-923
File - Walker Hollow (GR) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:04-26-95

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- LEE / GIL
2- LWP 7-PI
3- DP 38-SJ
4- VLC 9-FILE
5- RJF
6- LWP

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-95)

TO (new operator) <u>CITATION OIL & GAS CORP</u>	FROM (former operator) <u>EXXON CORPORATION</u>
(address) <u>8223 WILLOW PL S #250</u>	(address) <u>PO BOX 4721</u>
<u>HOUSTON TX 77070-5623</u>	<u>HOUSTON TX 77210-4721</u>
<u>SHARON WARD</u>	<u>STEPHEN JOHNSON/MIDLAND</u>
phone (713) <u>469-9664</u>	phone (915) <u>688-7875</u>
account no. <u>N 0265</u>	account no. <u>N 0420</u>

Well(s) (attach additional page if needed): ***WALKER HOLLOW (GREEN RIVER) UNIT**

Name: **SEE ATTACHED**	API: <u>047-15548</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 3-27-95)*
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 4-5-95) (Rec'd 4-6-95) (Rec'd 4-10-95)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- Lee 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(5-2-95)*
- Lee 6. Cardex file has been updated for each well listed above. *5-8-95*
- Lee 7. Well file labels have been updated for each well listed above. *5-8-95*
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(5-2-95)*
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

* 950308 Trust Lands Admin. Surety # 587800 / 80,000 Gulf Ins. Co.

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

- 1. All attachments to this form have been microfilmed. Date: May 18 1995.

FILING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950329 Exxon / Steve Johnson "Req. WIC F5"

950406 Rec'd WIC F5 "Old Form".

950426 BLM Appr. "Citation 1994 Investment L.P."

950502 Unit open hm. chg. from "Citation 1994 Investment L.P." to "Citation O&B Corp." in progress. (see phone DOC.)

United States Department of the Interior **COPY**

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

MAY 5 1995

IN REPLY REFER TO:
UT-922

May 9, 1995

Citation Oil & Gas Corporation
Attn: Sharon Ward
8223 Willow Place South, Suite 250
Houston, Texas 77070-5623

Re: Walker Hollow (Green River) Unit
Uintah County, Utah

Gentlemen:

We received an indenture dated May 2, 1995, whereby Citation 1994 Investment Limited Partnership resigned as Unit Operator and Citation Oil & Gas Corporation was designated as Successor Unit Operator for the Walker Hollow (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective May 9, 1995.

Your nationwide (Montana) oil and gas bond No. 0630 will be used to cover all operations within the Walker Hollow (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
~~Division of Oil, Gas & Mining~~
Division of Lands and Mineral Operations U-923
File - Walker Hollow (GR) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:05-09-95

● Mechanical Integrity Test Casing or Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: _____ Date 9/30/96 Time 2:30P am/pm (pm)
 Test conducted by: MIKE JOHNSON / BILLY HOIL
 Others present: _____

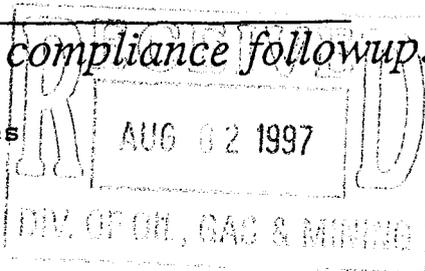
Well: <u>WALKER HOLLOW UNIT # 26</u>	Well ID: <u>SLC. 066357</u>
Field: <u>WALKER HOLLOW. 43-047-15548</u>	Company: <u>CITATION OIL AND GAS CORP</u>
Well Location: <u>SW 1/4, NW 1/4, SEC 11, T. 75, R. 23E S4M.</u>	Address: <u>8223 Willow Place S ste 250 Houston TX 77070</u>

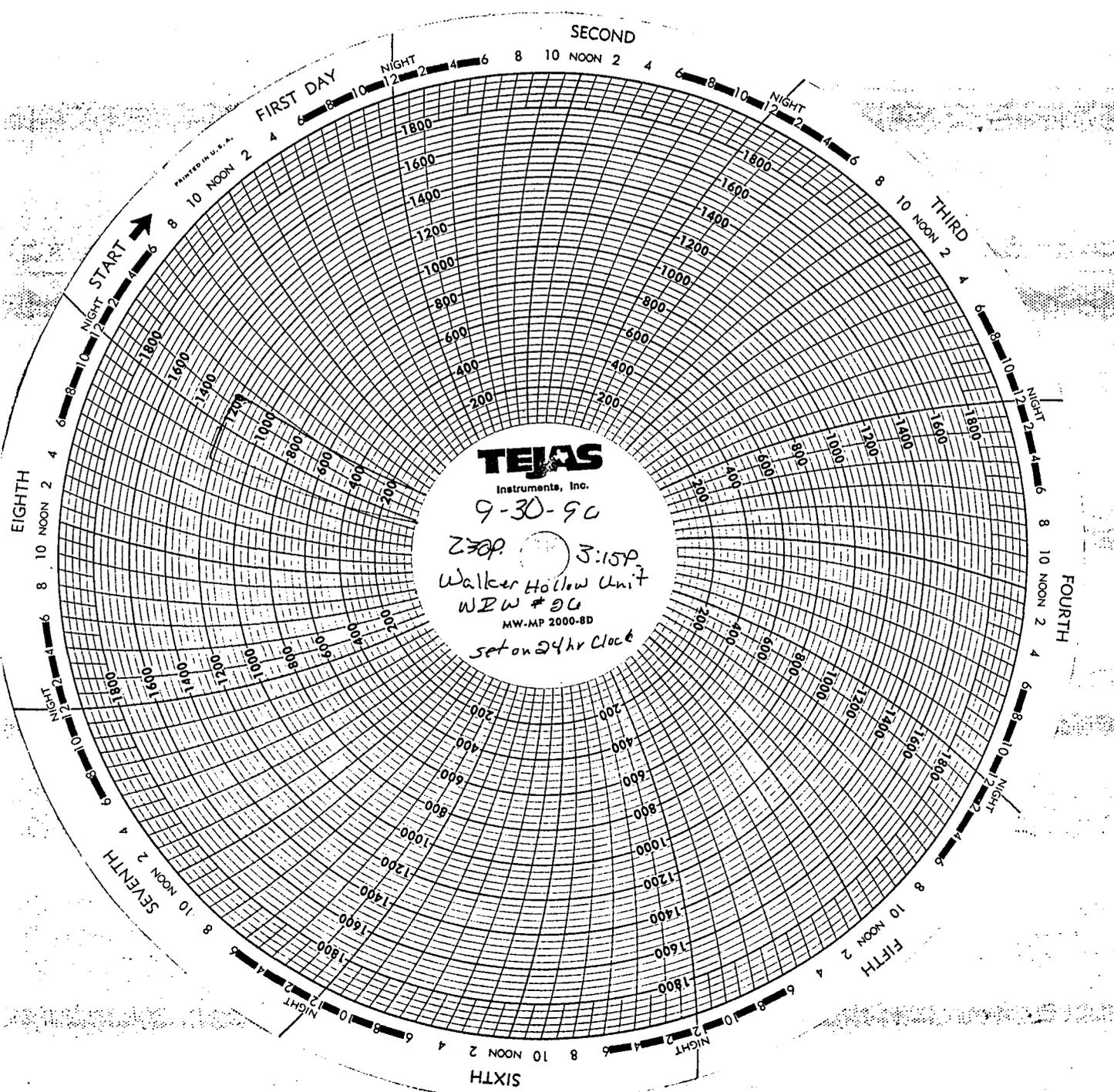
Time	Test #1	Test #2	Test #3
0 min	<u>1220</u> psig	_____ psig	_____ psig
5	_____	_____	_____
10	_____	_____	_____
15	_____	_____	_____
20	<u>1220</u>	_____	_____
25	_____	_____	_____
30 min	<u>1220</u>	_____	_____
35	_____	_____	_____
40	_____	_____	_____
45	<u>1220</u>	_____	_____
50	_____	_____	_____
55	_____	_____	_____
60 min	_____	_____	_____
Tubing press	_____ psig	_____ psig	_____ psig

Result (circle) Pass Fail Pass Fail Pass Fail

Signature of EPA Witness: _____
See back of page for any additional comments & compliance followup.

This is the front side of two sides





PRINTED IN U.S.A.

TEJAS
Instruments, Inc.

9-30-90

2:30p 3:15p
Walker Hollow Unit
WBW # 20
MW-MP 2000-8D
set on 24hr clock

EIGHTH

FOURTH

FIFTH

SIXTH

SEVENTH



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

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

August 19, 1997

Bob Christofferson
Citation Oil & Gas Corporation
1016 East Lincoln
Gillette, Wyoming 82716

Re: Pressure Test for Mechanical Integrity for the Listed
Injection Wells, Uintah County, Utah

Gentlemen:

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October 1982. Our records indicate the above referenced wells are due for testing. Please make arrangements and ready the wells for testing on September 11, 1997 as outlined below:

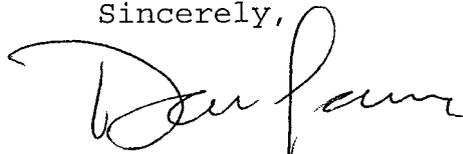
1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.

Page 2
Citation Oil & Gas Corporation
August 19, 1997

3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.
4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut-in 24 hours prior to testing.

Please contact Chris Kierst at (801)538-5337 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 "Dan Jarvis".

Dan Jarvis
UIC Geologist

lwp
Attachment

Walker Hollow #18
Walker Hollow #30
Walker Hollow #22
Walker Hollow #26
Walker Hollow #35
Walker Hollow #4
Walker Hollow #7
Walker Hollow #17
Walker Hollow #10
Walker Hollow Unit #31
Walker Hollow Unit #12
Walker Hollow Unit #34
Walker Hollow Unit #6
Walker Hollow Unit #8
Walker Hollow Unit #27

INSPECTION FORM STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - INSPECTION RECORD

Well Name: <u>Walker Hollow Unit 26</u>		API Number: <u>43-047-15548</u>	
Qtr/Qtr: <u>SW/NW</u>	Section: <u>11</u>	Township: <u>7S</u>	Range: <u>23E</u>
Company Name: <u>Citation Oil & Gas</u>			
Lease: State _____	Fee _____	Federal <u>X</u>	Indian _____
Inspector: <u>David Hackford</u>		Date: <u>5/10/99</u>	

Injection Type:

Disposal: _____ Enhanced Recovery: X Other: _____

Injecting: Yes Shut-In: No

Rate: No gauge (bpd) Totalizer: 7699198 Gal.

Gauges: _____ Tubing: yes

Casing: no Casing Pressure: _____ (psig)

Tubing Pressure: 1275 (psig) Housekeeping: Excellent

Equipment Condition: Good

COMMENTS: _____

5. Lease Designation and Serial Number:

SLC 066357

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name:

Walker Hollow Unit

8. Well Name and Number:

Walker Hollow Unit #26

1. Type of Well:

OIL GAS OTHER: **Injection**

2. Name of Operator

Citation Oil & Gas Corp.

9. API Well Number:

43-047-15548

3. Address and Telephone Number:

8223 Willow Place South, Suite 250, Houston, Texas 77070-5623 (281) 469-9664

10. Field and Pool, or Wildcat:

Walker Hollow Green River

4. Location of Well

Footages: **2110 FNL & 660 FWL**
QQ, Sec., T., R., M.: **SW NW Sec. 11-7S-23E**

County: **Uintah**

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
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off
- Other **Drill out CIBP, acidize, dispose into open hole section**

Approximate date work will start Upon approval

SUBSEQUENT REPORT

(Submit Original Form Only)

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

Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

Citation Oil & Gas Corp. proposes to drill out the CIBP at the casing shoe, clean out open hole section 5391' - 5754', acidize open hole and establish water disposal into open hole section. See attached procedure.

13.

Name & Signature: Sharon Ward Sharon Ward Title: Regulatory Administrator Date: 6/28/01

(This space for State use only)

(12/92)

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

Date: 07-30-01
By: [Signature]

(See Instructions on Reverse Side)

COPY SENT TO OPERATOR
DATE: 7-30-01
BY: CHD

RECEIVED

JUL 30 2001

DIVISION OF
OIL, GAS AND MINING

PROPOSED WORKOVER PROCEDURE
WHU #26
UINTAH COUNTY, UTAH
(June 19, 2001)

OBJECTIVE:

Drill out cement and CIBP at casing shoe. Clean out open hole section from 5391'-5754'. Acidize open hole. Establish water disposal into open hole section. Perforations in casing from 4327'-5310' to be isolated with packers.

Open Perforations (casing): 4327'-30', 4425'-42' (sqzd), 4685'-94', 4729'-31'(sqzd), 4735'-43', 4812'-30'(sqzd), 5219'-24', 5239'-43', 5261'-62', 5271'-77', 5281'-85', 5294'-95', 5305'-10'.

Open Hole: 5391'-5754'.

PROPOSED PROCEDURE:

1. MIRU service rig, pump, and tank. Set 2-400 bbl storage tanks.
2. Bleed well down. ND Tree. NU BOPE. Release R-3 packer and TOH.
3. Pick up 6-1/4" rock bit & 6-3.5" drill collars and RIH.
4. Rig up Air drilling unit.
5. Drill out cement and CIBP at $\pm 5342'$. Continue to drill through casing shoe at $\pm 5391'$ and clean out open hole section to 5754'-drill and circulate cuttings/fill out of hole using foamed water utilizing air-drilling equipment. RDMO air drilling unit.
6. TOH and lay down bit and drill collars.
7. RIH with 6-1/4" bit and casing scraper to $\pm 5380'$. TOH.
8. RIH 7" Model R-3 (or comparable model) packer on 2-7/8" tubing to $\pm 1080'$. PU 7" Snap-set packer and continue to RIH. Set Model R-3 packer at $\pm 5380'$ & Snap-set packer at $\pm 4300'$.
9. Pump treated produced water into open-hole section (5391'-5754') and establish injection. Evaluate injection rates and pressures. If stimulation is determined necessary-go to step 10. Otherwise RDMO service rig and equipment and begin injection of disposal fluid into open hole section.
10. Release packers. TOH with tubing laying down packers.
11. RIH with 13 jnts 2-7/8" tubing & 7" injection packer w/2-7/8" MSN and 2-7/8" tubing to TD @ $\pm 5745'$. PU 5'.
12. MIRU acidizing equipment. Pump 1500 gal 15% HCl down tubing followed by 22 bbls treated produced water.
13. Set packer at $\pm 5345'$.
14. Pump another 50 bbls treated produced water down tubing to displace acid into formation. RDMO acidizing equipment.
15. Release packer and pump 175 bbls treated produced water down backside to wash any acid by the packer. Reset packer.
16. Swab back load until pH > 6.
17. Release packer and TOH. Lay down packer.
18. RIH 7" Model R-3 (or comparable model) packer on 2-7/8" tubing to $\pm 1080'$. PU 7" Snap-set packer and continue to RIH. Set Model R-3 packer at $\pm 5380'$ & Snap-set packer at $\pm 4300'$. ND BOP. NU Tree.

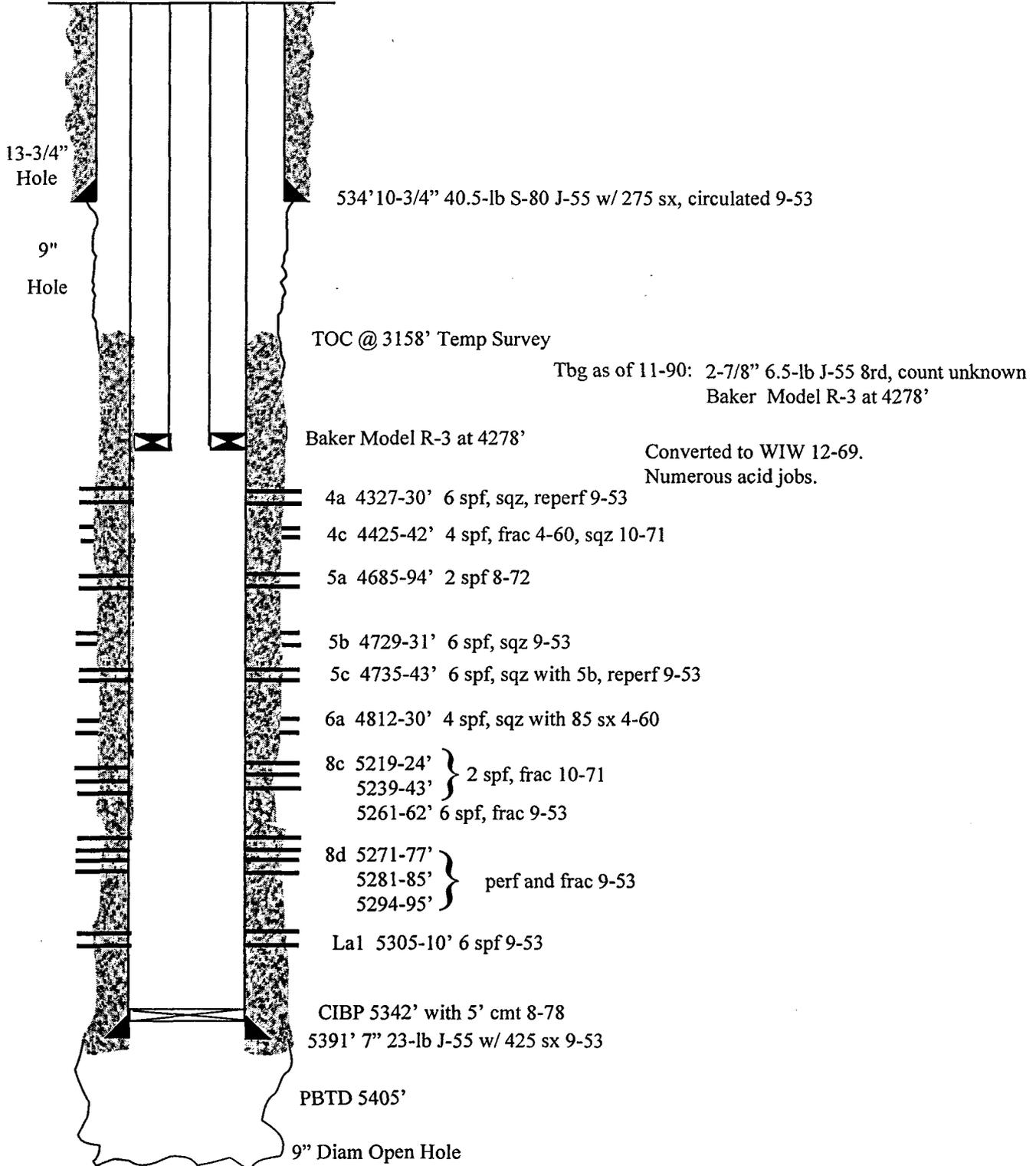
19. RDMO service rig and equipment.
20. Begin injection of disposal fluid into open hole section.

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
2110' FNL, 660 FWL (SW/NW) Sec 11-T7S-R23E
UINTAH CO., UTAH

API: 43-047-05588

KB: 10 FT

Status: Active Water Injection



TD: 5754'

Updated: 11-28-00 BC

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 DEEPEEN form for such proposals.

5. Lease Designation and Serial Number:

SLC 066357

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Walker Hollow Unit

8. Well Name and Number:

Walker Hollow Unit #26

9. API Well Number:

43-047-15548

10. Field and Pool, or Wildcat:

Walker Hollow Green River

1. Type of Well:

OIL

GAS

OTHER:

2. Name of Operator

Citation Oil & Gas Corp.

3. Address and Telephone Number:

P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194

4. Location of Well

Footages: **2110' FNL & 660' FWL**

QQ, Sec., T., R., M.: **SW NW; Sec. 11, T7S, R23E**

County: **Uintah**

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 **8/3/01**

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.)

MIRU - bled well down. ND tree / NU BOPE. Rel'd pkr & pumped hot wtr with paraffin solvent down tbg. RIH to 5311' & MU power swivel. Drld out fill & cmt to 5348', drld out CIBP - fell thru @5350'. CHC & RIH. Tagged csg shoe @5391' & CHC. Drld on csg shoe, fell thru @5393' & drld to 5694'. Cleaned out to TD @5763', circ'd tbg clean & SWI. TP - 400; CP - 400. Tagged up @5565', drld to 5575' & washed to 5620' - some cement, formation rocks & shale in returns. Drld to 5692'; cleaned out to 5714' & drld to 5763' - same returns. Circ hole, TOH & SWI. TP 350; CP - 350 - tagged fill @5552', drld out with power swivel to 5567' - cuttings & rocks in returns. Circ'd tbg clean & TOH - bit worn. RIH with 5 stands kill string & SWI. TP - 200; CP - 200 - TIH with bit & scraper to 5382'. RIH with R-3 pkr (set @5362.42'), SN, tbg, & Snap-Set pkr (set @4302.59'). ND BOP & pumped 170 bbls pkr fluid. Reset pkr & pressure tested casing to 1000 psi - OK. NU WH & HU flowline, RDMO. Put well on injection 8/3/2001.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

13.

Name & Signature:

Debra Harris

Debra Harris

Title:

Prod./Regulatory Coord.

Date:

8/7/2001

(This space for State use only)

RECEIVED
DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SLC 066357

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Walker Hollow Unit

8. Well Name and Number:

Walker Hollow Unit #26

1. Type of Well:

OIL GAS OTHER: **Injection**

2. Name of Operator

Citation Oil & Gas Corp.

9. API Well Number:

43-047-15548

3. Address and Telephone Number:

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

10. Field and Pool, or Wildcat:

Walker Hollow Green River

4. Location of Well

Footages: **2110 FNL & 660 FWL**

County: **Uintah**

QQ, Sec., T., R., M.: **SW NW Section 11-7S-23E**

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
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Run liner in open hole section of well

Other _____

Approximate date work will start **2001**

SUBSEQUENT REPORT

(Submit Original Form Only)

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

Date of work completion _____

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

* Must be accompanied by a cement verification report.

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

Citation Oil & Gas Corp. proposes to run a liner across the open hole section to aid in water disposal per the attached procedure.

RECEIVED

DEC 06 2001

DIVISION OF
OIL, GAS AND MINING

COPY SENT TO OPERATOR

Date: 12/10/01
Initials: CHD

13.

Name & Signature:

Sharon Ward

Sharon Ward

Title:

Regulatory Administrator

Date:

21/3/01

(This space for State use only)

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

(12192)

DATE: 12/11/01
BY: [Signature]

(Instructions on Reverse Side)

Federal Approval Of This
Action Is Necessary

PROPOSED WORKOVER PROCEDURE
WHU #26
UINTAH COUNTY, UTAH
(October 29, 2001)

OBJECTIVE:

Run 4-¹/₂" , 11.6# , J-55 LT&C liner across open hole section.

Open Perforations (casing): 4327'-30' , 4425'-42' (sqzd) , 4685'-94' , 4729'-31' (sqzd) , 4735'-43' , 4812'-30' (sqzd) , 5219'-24' , 5239'-43' , 5261'-62' , 5271'-77' , 5281'-85' , 5294'-95' , 5305'-10' .

Open Hole: 5391'-5754' .

PROPOSED PROCEDURE:

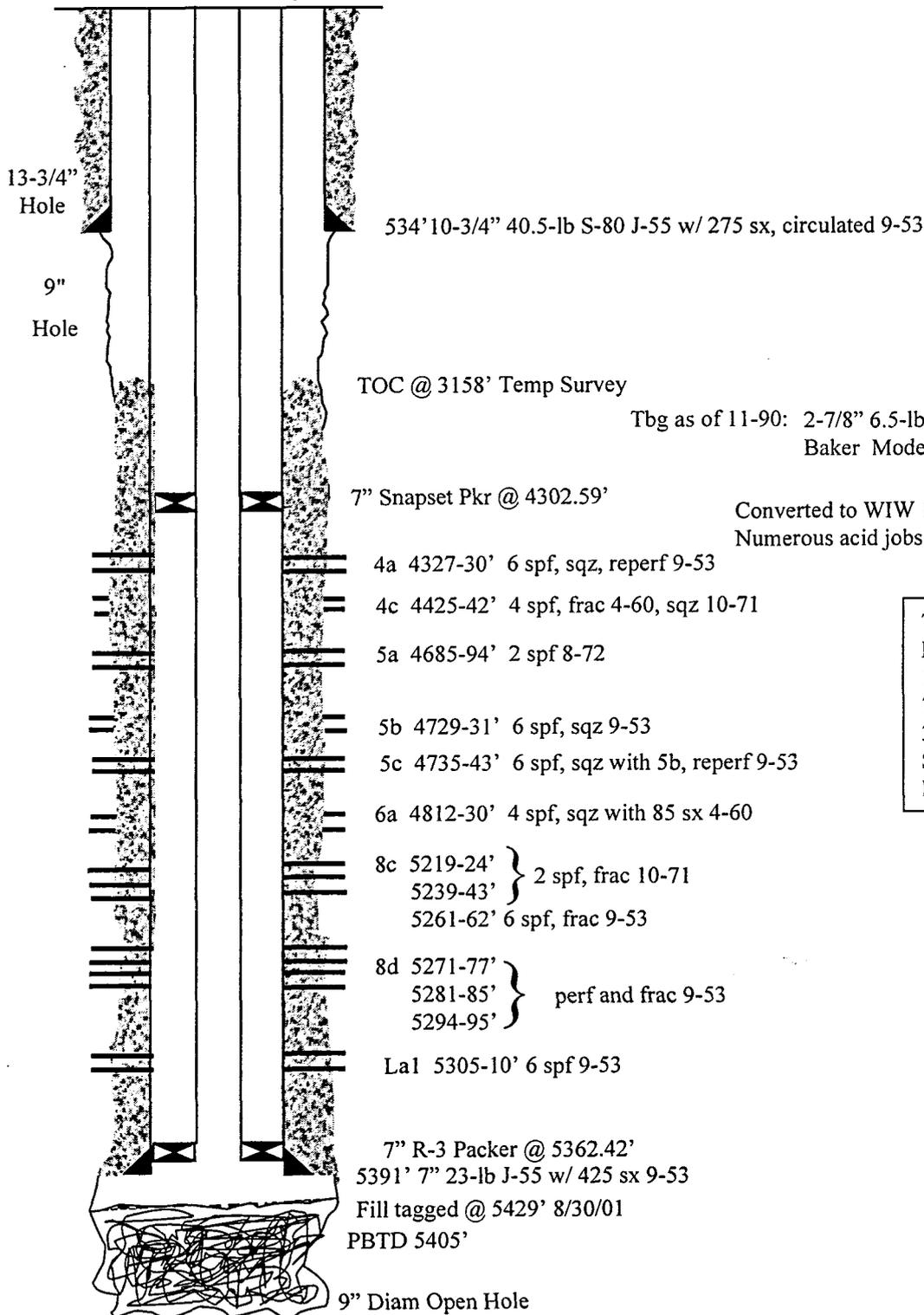
1. MIRU Service Unit, 1-400 bbl tank, and flat tank w/ centrifuge.
2. ND Tree. NU BOPE.
3. Release Snapset and Model R packers and TOH w/ tubing.
4. RIH w/ 6-¹/₈" bit and 385' of 4-¹/₂" 11.6# J-55 Casing liner with packoff bushing and "J" releasing sleeve on 2-³/₈" tubing with crossover to 2-⁷/₈" tubing above the releasing sleeve - until tag fill at ± 5429' (WL tag 8/01).
5. Reverse circulate with treated produced water and wash down with the bit until down to 5754' rotating if necessary. Top of liner should be @ ± 5368'.
6. "J" out of the releasing sleeve and sting out of the liner. TOOH w/ tubing.
7. Rig up wireline service and perforate the 5-¹/₂" liner as follows: 5395'-5406' , 5410'-5423' , 5444'-5452' , 5458'-5478' , 5501'-5508' , 5512'-5519' , 5569'-5579' , 5589'-5606' , 5624'-5634' , 5661'-5680' , 5710'-5724' .
8. RIH with 7" Model R-3 packer and 7" Snapset packer to ± 5362' & ± 4302' respectively on 2-⁷/₈" tubing. Pump 54 bbls packer fluid down annulus. Set packers.
9. ND BOPE. NU Tree. Turn well to injection for test. If disposal rate less than desired perform acid breakdown.
10. RDMO Service unit and surface equipment.
11. Return well to water disposal operation.

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
2110' FNL, 660 FWL (SW/NW) Sec 11-T7S-R23E
UINTAH CO., UTAH

API: 43-047-05588

KB: 10 FT

Status: Active Water Injection



Tubing Detail:	
KB	10'
137 jnts 2-7/8" J-55	4296.49'
7" Snapset pkr	4302.59'
34 jnts 2-7/8" J-55	5353.32'
SN	5354.42'
R-32 Pkr	5362.42'

TD: 5754'

Updated: 10/17/01 MW

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SLC 066357

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Walker Hollow Unit

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:

Walker Hollow Unit #26

2. Name of Operator

Citation Oil & Gas Corp.

9. API Well Number:

43-047-15548

3. Address and Telephone Number:

P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194

10. Field and Pool, or Wildcat:

Walker Hollow Green River

4. Location of Well

Footages: 2110' FNL & 660' FWL
QQ, Sec., T., R., M.: SW NW; Sec. 11, T7S, R23E

County: Uintah

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 Ran liner in open hole section of well
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion 1/21/2002

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.)

MIRU. NU BOPE & TOH with tubing. MU 5-1/2" liner & RIH. Ran 2-7/8" tbg inside liner & stung into pack-off bushing. Latched into liner - RIH, tagged @5391' (csg shoe) and drilled out to 5408' - circ'd clean. Drilled to 5449'; dropped thru to 5474'; drilled to 5494' & dropped thru to 5501'. Washed down to 5563' & circ'd hole with polymer fluid. Washed down to 5690' & circulated clean. Circulated 200 bbls polymer fluid. Washed down to 5735' & liner stacked out. Circulated casing & liner clean with 200 bbls water. RU & ran GR tool - tagged btm with WL @5735' - top of liner @5352'. Perforated 5395' - 5724' (4 spf) and RIH with 7" Model "R" pkr, SN 33 jts 2-7/8" tbg, 7" snap pkr & tubing. Pumped packer fluid, set packers and pressure tested annulus to 1000 psi - OK. RDMO and turned well to injection on 1/16/2002. Injecting 1355 BWPD @1160 psi as of 1/21/2002.

13.

Name & Signature:

Debra Harris

Debra Harris

Title:

Prod./Regulatory Coord.

Date:

1/23/2002

(This space for State use only)

RECEIVED

JAN 28 2002

DIVISION OF
OIL, GAS AND MINING



March 11, 2004

Dan Jackson
U. S. Environmental Protection Agency
Region VIII
999 18th Street, Suite 300
Denver, Colorado 80202-2466

RE: Permit Application for Water Injection Well
Walker Hollow Unit 26
Walker Hollow Field, Lease UTU 066357
Section 11-Township 7S-Range 23E
Uintah County, Utah

Dear Mr. Jackson:

Citation Oil & Gas Corp. requests a permit to amend the Walker Hollow Unit 26 injection well to include additional perforations.

Enclosed please find Citation Oil & Gas Corp.'s application for amendment.

If you require additional information, please contact the undersigned, at 281-517-7309.
Thank you.

Sincerely,

Sharon Ward
Regulatory Administrator
Citation Oil & Gas Corp.

cc: State of Utah

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

**RECEIVED
MAR 15 2004
DIV. OF OIL, GAS & MINING**

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Citation Oil & Gas Corp.	Utah Account Number N 0265	Well Name and Number Walker Hollow Unit 26
Address of Operator P O Box 690688 CITY Houston STATE TX ZIP 77269	Phone Number (281) 517-7800	API Number 047-15548
Location of Well Footage : 2110' FNL & 660' FWL County : Uintah QQ, Section, Township, Range: SWNW 11 7S 23E State : UTAH	Field or Unit Name Walker Hollow Field	Lease Designation and Number SLC 066357

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:

Enhanced Recovery?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Disposal?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Storage?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No
Date of test: 8/16/2001

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Proposed injection interval: from 4,685 to 5,724

Proposed maximum injection: rate 4,300 bpd pressure 1,911 psig

Proposed injection zone contains oil , gas , and / or fresh water within 1/2 mile of the well.

RECEIVED
MAR 15 2004

DIV. OF OIL, GAS & MINING

List of attachments: See EPA application as attachment to amend current permit
Logs on file with the USGS in Utah.

ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT
UTAH OIL AND GAS CONSERVATION GENERAL RULES

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Sharon Ward

Title Regulatory Administrator

Signature Sharon Ward

Date 3/11/2004

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Citation Oil & Gas Corp.	Utah Account Number N 0265	Well Name and Number Walker Hollow Unit 26
Address of Operator P O Box 690688 CITY Houston STATE TX ZIP 77269	Phone Number (281) 517-7800	API Number 047-15548
Location of Well Footage : 2110' FNL & 660' FWL County : Uintah		Field or Unit Name Walker Hollow Field
QQ, Section, Township, Range: SWNW 11 7S 23E State : UTAH		Lease Designation and Number SLC 066357

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:	Enhanced Recovery?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Disposal?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No
 Date of test: 8/16/2001

Proposed injection interval: from 4,327 to 5,738
 Proposed maximum injection: rate 4,300 bpd pressure 1,911 psig
 Proposed injection zone contains oil , gas , and / or fresh water within 1/2 mile of the well.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY**

List of attachments: Amendment form UIC 1 for Walker Hollow Unit 26 dated 3/11/04 to show correct injection interval

**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT
 UTAH OIL AND GAS CONSERVATION GENERAL RULES**

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Sharon Ward Title Regulatory Administrator
 Signature Sharon Ward Date 4/20/2004

RECEIVED

APR 22 2004

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Citation Oil & Gas Corp.	Utah Account Number N 0265	Well Name and Number Walker Hollow Unit 26
Address of Operator P O Box 690688 CITY Houston STATE TX ZIP 77269	Phone Number (281) 517-7800	API Number 047-15548
Location of Well Footage : 2110' FNL & 660' FWL County : Uintah		Field or Unit Name Walker Hollow Field
QQ, Section, Township, Range: SWNW 11 7S 23E State : UTAH		Lease Designation and Number SLC 066357

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:	Enhanced Recovery?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Disposal?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No
Date of test: 8/16/2001

Proposed injection interval: from 4,327 to 5,738

Proposed maximum injection: rate 4,300 bpd pressure 1,911 psig

Proposed injection zone contains oil , gas , and / or fresh water within 1/2 mile of the well.

List of attachments: Amendment form UIC 1 for Walker Hollow Unit 26 dated 3/11/04 to show correct injection interval.

**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT
UTAH OIL AND GAS CONSERVATION GENERAL RULES**

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Sharon Ward Title Regulatory Administrator
Signature Sharon Ward Date 4/20/2004



April 20, 2004

Emmett Schmitz
U. S. Environmental Protection Agency
Region VIII
999 18th Street, Suite 300
Denver, Colorado 80202-2466

RE: Permit Application for Water Injection Well
Walker Hollow Unit 26
Walker Hollow Field, Lease UTU 066357
Section 11-Township 7S-Range 23E
Uintah County, Utah

Dear Mr. Schmitz:

Citation Oil & Gas Corp. submits the additional information you have requested through James Brown on the Walker Hollow Unit 26 injection well to include additional perforations.

Enclosed is a copy of the updated UIC Form 1 showing the new perforation depth to be from 4327' to 5738', wellbore schematic showing three packers with side pocket mandrel injection regulators and a copy of a Temperature Survey, Electric log and a Micro log.

Citation requests our injection interval to be from 4327' to 5738'.

If you require additional information, please contact the undersigned, at 281-517-7309.
Thank you.

Sincerely,

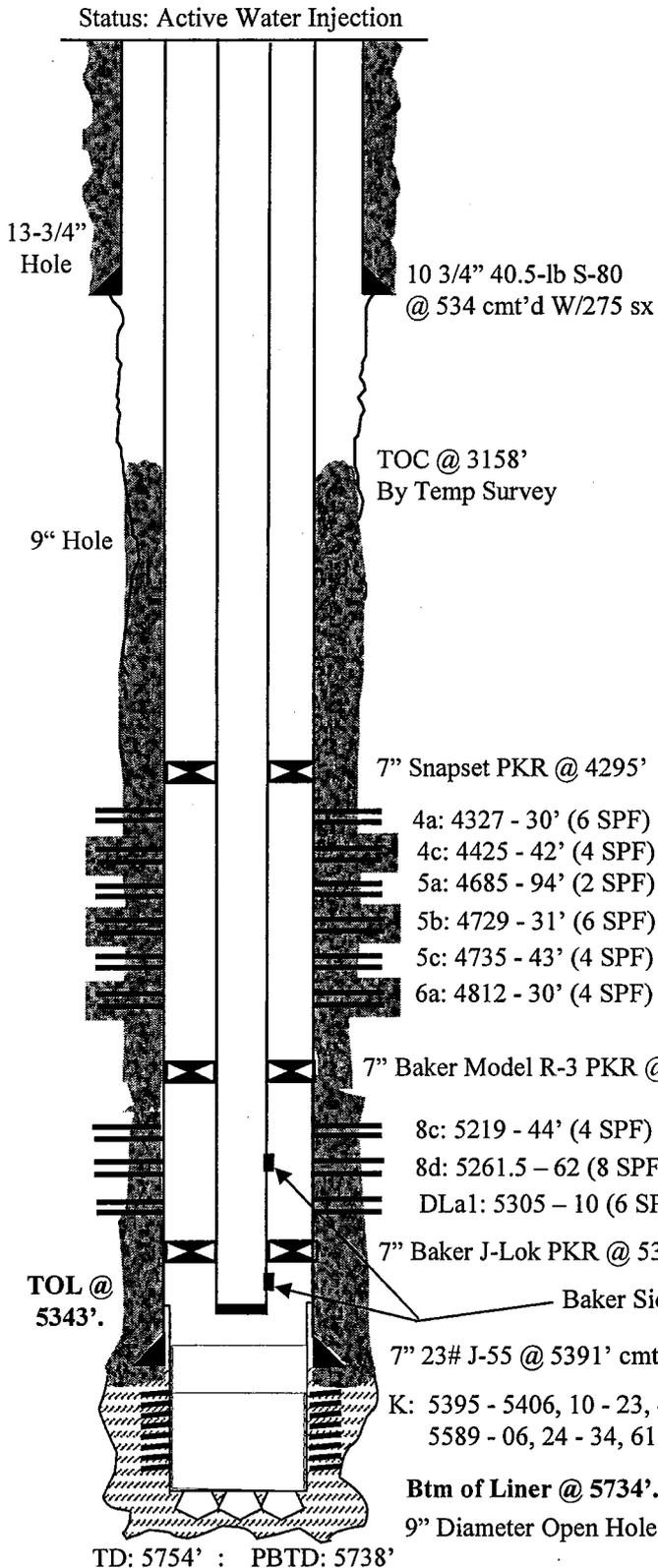
A handwritten signature in cursive script that reads "Sharon Ward".

Sharon Ward
Regulatory Administrator
Citation Oil & Gas Corp.

4/20/04

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
2110' FNL, 660 FWL, SW NW, Section 11, T-7-S, R-23-E
UINTAH CO., UTAH
 PROPOSED

KB: 10 FT



TUBING DETAIL

Qty	Description	Length	Depth
---	KB (used)	10.00	10.00
137	2 7/8" J-55 6.5# 8rd EUE tbg	4,278.60	4,288.60
1	Snapset Type PKR	6.40	4,295.00
28	2 7/8" J-55 6.5# 8rd EUE tbg	889.00	5,184.00
1	Baker Model R-3 PKR	6.00	5,190.00
2	2 7/8" J-55 6.5# 8rd EUE tbg	63.00	5,253.00
1	Baker Side Pocket Mandrel	3.00	5,256.00
2	2 7/8" J-55 6.5# 8rd EUE tbg	63.00	5,319.00
1	Baker J-Lok PKR	6.00	5,325.00
1	2 7/8" x 6' pup jt	6.00	5,331.00
1	Baker Side Pocket Mandrel	3.00	5,334.00
1	2 7/8" x 6' pup jt	6.00	5,340.00
1	Standing Valve	1.00	5,341.00
1	S.N.	1.00	5,342.00

LINER DETAIL

Qty	Description	Length	Depth
---	Liner Top	5343.00	5,343.00
1	7" X 5 1/2" "J" rlsq slv W/entry gd	1.22	5,344.22
1	5 1/2" STCX 5 1/2" Hydril 511 XO	1.55	5,345.77
9	5 1/2" 17# Hydril 511 csg liner	383.74	5,729.51
1	5 1/2" X 4 1/2" XO W/packoff bshg	0.67	5,730.18
1	4 1/2" X 4' csg pup jt	3.88	5,734.06
1	6 1/8" Smith Rock Bit	0.45	5,734.51



MICRO LOGGING

LOCATION 11-7S-23E
 WELL BAMBERGER UNIT #1
 COMPANY CARTER OIL COMPANY

COMPANY CARTER OIL CO.
 WELL WAL #2
BAMBERGER UNIT #1
 FIELD WALKER HOLLOW
 LOCATION 11-7S-23E
130'S/C. SW NW
 COUNTY UINTAH
 STATE UTAH

Location of Well
 Elevation: D.F.: 5216
 K.B.: 5218
 or G.L.:
 FILING No.

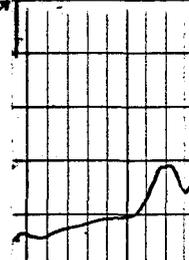
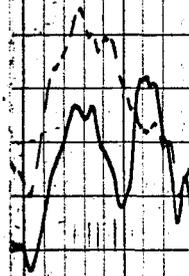
Run No.	ONE				
	9-18-53				
Reading	5750				
Reading	4070				
Measured	1680				
Schlum.	534				
Driller	534				
th Reached	5753				
om Driller	5753				
th Datum	K.B.				
Nat.	GEL. CHEM.				
Density	10.0				
viscosity	45				
Resist.	4.4 @ 83 °F	@ 81 °F	@ 79 °F	@ 77 °F	@ 75 °F
Res. BHT	3.2 @ 116 °F	@ 114 °F	@ 112 °F	@ 110 °F	@ 108 °F
pH	@ °F	@ °F	@ °F	@ °F	@ °F
Wtr. loss	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Temp. °F	116				
size	9" - T.D.				
gs.					
AO	1.5"				
AM	2"				
r. Rig Time	2 HOURS				
ck No.	797 SID				
orded By	COVEY				
mess By	BOETTCHER				

CENTRAL FILES

FOLD HERE

REMARKS MUD SAMPLE FURNISHED BY CUSTOMER.

RESISTIVITY -ohms. m ² /m	0 Micro Inverse 1" x 1" 20	DEPTHS	SPONTANEOUS-POTENTIAL millivolts
	0 Micro Normal 2" 20		
			LAST RDG. 4070





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18th STREET - SUITE 300
DENVER, CO 80202-2466
http://www.epa.gov/region08

JUN 22 2004

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Sharon Ward
Citation Oil and Gas Corp.
P.O. Box 690688
Houston, TX 77269-0688

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED

JUN 29 2004

DIV. OF OIL, GAS & MINING

Re: Underground Injection Control Program
Permit for the WH #26 (BAMBERGER 1)
Uintah County, Utah
EPA Permit No. UT20971-02533

Dear Ms. Ward

Enclosed is a Draft Underground Injection Control (UIC) Permit for the WHU 26 (Bamberger 1) well. Also enclosed are a Statement of Basis which discusses development of the Permit, a copy of the Public Notice and any required Aquifer Exemption.

Environmental Protection Agency (EPA) regulations and procedures for issuing UIC Permits are found in Title 40 of the Code of Federal Regulations Part 124 (40 CFR 124). These regulations and procedures require Public Notice and the opportunity for the public to comment on a proposed UIC Permit and Agency decision.

Public Notice will be published in the following publication(s) to inform the public of their opportunity to comment on this proposed UIC Permit. The comment period will run for thirty (30) days from the latest date of publication. You may call Ms. Jo Taylor at (800) 227-8917 ext. 6152 to obtain the exact deadline for comments.

Vernal Express, Vernal
Uintah Basin Standard, Roosevelt

The enclosed copies of the Draft Permit, Statement of Basis, and Public Notice are being sent to you so that you have an opportunity to comment on the Draft Permit during the comment period. Notice of the EPA's intent to issue this Permit also may be sent to any surface landowner who could be affected by this proposed Permit decision.

The Final Permit decision will not be made until after the comment period has closed, and all relevant comments will be taken into consideration. If any substantial comments are received or if any substantial changes are made from the Draft Permit to the Final Permit, the Effective Date of the Final Permit will be delayed for an additional thirty (30) days. This delay is required by 40 CFR 124.15 (b) to allow for potential appeal of the Final Permit decision.

If you have any questions or comments about the enclosed Draft Permit or Statement of Basis please write to Emmett Schmitz at the letterhead address citing "Mail Code 8-P-W-GW", or telephone (800) 227-8917, ext. 6174.

Sincerely,



Sandra A. Stavnes
Director
Ground Water Program

enclosure: Draft Permit
Draft Statement of Basis
Public Notice

cc: Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Elaine Willie
Environmental Coordinator
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

Mr. Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026

Mr. Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84111

Mr. Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
Vernal District
170 South 500 East
Vernal, UT 84078

STATEMENT OF BASIS

CITATION OIL & GAS CORPORATION WHU 26 (BAMBERGER 1) UINTAH COUNTY, UT

EPA PERMIT NO. UT20971-02533

CONTACT: Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1-800-227-8917 ext. 6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the operation of an "existing" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Citation Oil & Gas Corporation
8223 Willow Place South
Suite 250
Houston, TX 77070

on

March 16, 2004

submitted an application for an Underground Injection Control (UIC) Program Permit for the following injection well or wells:

WHU 26 (Bamberger 1)
2110' FNL & 660' FWL, SWNW S11, T7S, R23E
UINTAH County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

An "existing" well is an injection well which began injection operation prior to the November 25, 1988 effective date for the UIC Program on all Indian lands in Utah.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

EXISTING WELLS		
Well Name	Well Status	Date of Operation
WHU 26 (Bamberger 1)	Existing	12/9/1969

PART II. Permit Considerations (40 CFR 146.24)

Geologic Setting (TABLE 2.1)

TABLE 2.1 GEOLOGIC SETTING WHU 26 (Bamberger 1)				
Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Green River	2,784.00	5,730.00	3,733.00	Sand, Shale, Carbonate

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by the confining zone which is free of known open faults or fractures within the Area of Review.

On April 14, 1993, the EPA, in agreement with the State of Utah, exempted the Green River Formation as an Underground Source of Drinking Water (USDW) in the Red Wash, Stagecoach, Walker Hollow, White River, Gypsum Hills and Wonsits Valley oil fields.

TABLE 2.2 INJECTION ZONES WHU 26 (Bamberger 1)						
Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	4,327.00	5,730.00	3,733.00	0.780		E

* C - Currently Exempted
 E - Previously Exempted
 P - Proposed Exemption
 N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

**TABLE 2.3
CONFINING ZONES
WHU 26 (Bamberger 1)**

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	Shale	4,285.00	4,327.00

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

**TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
WHU 26 (Bamberger 1)**

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta and Green River	Sand and Carbonate	0.00	5,730.00	300.00 - 3,733.00

PART III. Well Construction (40 CFR 146.22)

**TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
WHU 26 (Bamberger 1)**

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Longstring	9.00	7.00	0.00 - 5,391.00	3,158.00 - 5,754.00
Surface	13.75	10.75	0.00 - 534.00	0.00 - 534.00
Liner	7.00	5.50	5,343.00 - 5,734.00	3,158.00 - 5,754.00

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The construction of this "existing" injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for "existing" injection well or wells are shown in TABLE 3.1.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment allowing for monitoring pressures and providing access for sampling the injected fluid. This equipment includes: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) pressure gauges attached to the injection tubing and the TCA to monitor the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Under 40 CFR 144.55, "existing" wells are exempt from corrective action requirements. The applicant has shown that this well qualifies for such an exemption because the well began injection operation prior to the November 25, 1988 effective date of the UIC Program on all Indian lands in Utah.

PART V. Well Operation Requirements (40 CFR 146.23)

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	4,327.00	0.780	1,495

Approved Injection Fluid

The approved injection fluid is limited to fluids which meet requirements pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be comingled and

the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are not approved.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit,

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependant upon well-specific conditions as explained below:

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, injection flow rate and cumulative fluid volume, and the maximum and average value for each must be determined for each month. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well or wells must be plugged with cement in a manner which will not allow the movement of fluids either into or between USDWs. The plugging and abandonment plan is described in Appendix E of the Permit.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Financial Statement, received May 4, 2004

Evidence of continuing financial responsibility is required to be submitted to the Director annually.



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: May 2004

Permit No. UT20971-02533

Class II Enhanced Oil Recovery Injection Well

**WHU 26 (Bamberger 1)
UINTAH County, UT**

DRAFT

Issued To

Citation Oil Gas Corporation

8223 Willow Place South

Suite 250

Houston, TX 77070

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Citation Oil & Gas Corporation
8223 Willow Place South
Suite 250
Houston, TX 77070

is authorized to construct and to operate the following Class II injection well or wells:

WHU 26 (Bamberger 1)
2110' FNL & 660' FWL, SWNW S11, T7S, R23E
UINTAH County, UT

Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well or wells unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

Issue Date: _____

Effective Date _____

Stephen S. Tuber
Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate can be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. A current copy of Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are provided at issuance of this Permit.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit), and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Injection operation may commence only after all construction and pre-injection requirements herein have been met and approved. Except for new wells authorized by an Area Permit under 40 CFR 144.33 (c), the Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injected or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) **Planned changes.** The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) **Anticipated noncompliance.** The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Monitoring Reports.** Monitoring results shall be reported at the intervals specified in this Permit.
- (d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) **Twenty-four hour reporting.** The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

UNDERGROUND INJECTION CONTROL PROGRAM

PUBLIC NOTICE AND OPPORTUNITY TO COMMENT

PROPOSED UNDERGROUND INJECTION CONTROL (UIC) PERMIT

Citation Oil & Gas Corporation
8223 Willow Place South
Suite 250
Houston, TX 77070

PURPOSE OF PUBLIC NOTICE

The purpose of this notice is to solicit public comment on a proposal by the Region 8 Ground Water Program office of the U.S. Environmental Protection Agency (EPA) to issue an Underground Injection Control (UIC) Permit that will authorize the underground injection of fluid via the following Class II injection well:

WH #26 (BAMBERGER 1)
2110' FNL & 660' FWL
SWNW S11, T7S, R23E
UINTAH County, UT

BACKGROUND

The well is proposed for injection of fluid (water or brine) produced during conventional oil or natural gas production, and it may be commingled with waste water from gas plants which are an integral part of production operations unless that water is classified as a hazardous waste at the time of injection.

A Draft Permit has been prepared in accordance with provisions of the Safe Drinking Water Act (SDWA) as amended (42 USC et seq) and other lawful standards and regulations. The EPA has made a preliminary determination that all underground sources of drinking water will be protected. The Permit will be issued for the life of the well unless modified or terminated.

This injection well currently is authorized by rule, and has been in operation since:

WH #26 (BAMBERGER 1), December 9, 1969

Upon final issuance of this Permit, authorization by rule will end and operation of the well will be governed by the requirements and conditions specified in the Permit.

PUBLIC COMMENTS

The requirements and conditions of the Draft Permit are tentative, and are open to comment from

any interested party. Persons wishing to comment upon or object to any aspect of proposed Permit decision are invited to submit comments, IN WRITING, within 30 days of this notice to:

Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1-800-227-8917 ext. 6174

The Administrative Record, including the application, the Draft Permit and Statement of Basis prepared by the EPA, and public comments received, is available for public inspection at the above location(s) weekdays from 8:00 a.m. to 4:00 p.m.

PUBLIC HEARING

Within the thirty (30) day period, any interested person may request a public hearing as provided by 40 CFR §124.12. A request for a hearing must be made IN WRITING to the above address and must state the nature of the issues proposed to be raised at the hearing. A public hearing will be held only if significant interest is shown.

FINAL PERMIT DECISION

All comments received within the thirty (30) day period will be considered in the Final Permit decision. The decision may be to: issue, modify, deny, or revoke and reissue the Permit. The Final Permit decision shall become effective thirty (30) days after issuance unless no commenters requested changes to the Draft Permit, in which case the Permit shall become effective immediately upon issuance.

APPEALS

Within thirty (30) days after a Final Permit decision has been issued, any person who filed comments on the Draft Permit or who participated in a public hearing may petition the Administrator to review the final decision. Any person who failed to file comments or failed to participate in the public hearing may petition for administrative review only to the extent of the changes from the Draft to the Final Permit decision. Commenters are referred to 40 CFR §§ 124.15 through 124.20 for procedural requirements of the appeal process.

JUN 30 2004

Date of Publication



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18th STREET - SUITE 300
DENVER, CO 80202-2466
<http://www.epa.gov/region08>

AUG 20 2004

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Sharon Ward
Regulatory Administrator
Citation Oil & Gas Corp.
P.O. Box 690688
Houston, TX 77269-0688

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
AUG 23 2004
DIV. OF OIL, GAS & MINING

Re: Underground Injection Control Program
Final Permit
WH No. 26 (Bamberger No. 1)
EPA Permit UT20971-02533
Uintah County, Utah
43-047-15548
75 23E 11

Dear Ms. Ward

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed WHU 26 (Bamberger 1), in Uintah County, Utah. A Statement of Basis, which discusses development of the conditions and requirements of the Permit, also is included.

The Public Comment period ended July 29, 2004. There were no comments on the Draft Permit received during the Public Notice period, and therefore the Final Permit becomes effective on the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this Permit becomes effective.

Please note that under the terms of the Final Permit, you are authorized only to construct the proposed injection well, and must fulfill the "Prior to Commencing Injection" requirements of the Permit, Part II Section C Subpart 1 and obtain written Authorization to Inject prior to commencing injection. It is your responsibility to be familiar with and to comply with all provisions of the Final Permit.

The Permit and the authorization to inject are issued for the operating life of the well unless terminated (Part III, Section B). The EPA will review this Permit at least every five (5) years to determine whether action under 40 CFR § 144.36(a) is warranted.



If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at 1-800-227-8917 (Ext. 6174).

Sincerely,


for

Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final Permit
 Statement of Basis
 Form No. 7520-10 (Application to Transfer Permit)
 Form No. 7520-10 (Completion Report)
 Form No. 7520-11 (Monitoring Report)
 Form No. 7520-12 (Well Rework Record)
 Form No. 7520-14 (Plugging Record)
 Groundwater Section Guidance No. 35
 Groundwater Section Guidance No. 37
 Groundwater Section Guidance No. 39

cc: Maxine Natchees
 Chairperson
 Uintah & Ouray Business Committee
 Ute Indian Tribe
 P.O. Box 190
 Fort Duchesne, UT 84026

 Elaine Willie
 Environmental Coordinator
 Ute Indian Tribe
 P.O.Box 460
 Fort Duchesne, UT 84026

 Chester Mills
 Superintendent
 Bureau of Indian Affairs
 Uintah & Ouray Indian Agency
 P.O. Box 130
 Fort Duchesne, UT 84026

Mr. Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84111

Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
170 South 500 East
Vernal, UT 84078



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: August 2004

Permit No. UT20971-02533

Class II Enhanced Oil Recovery Injection Well

**WHU 26 (Bamberger 1)
UINTAH County, UT**

Issued To

Citation Oil Gas Corporation

8223 Willow Place South

Suite 250

Houston, TX 77070

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Citation Oil & Gas Corporation
8223 Willow Place South
Suite 250
Houston, TX 77070

is authorized to construct and to operate the following Class II injection well or wells:

WHU 26 (Bamberger 1)
2110' FNL & 660' FWL, SWNW S11, T7S, R23E
UINTAH County, UT

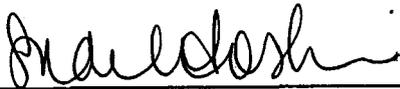
Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well or wells unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

Issue Date: AUG 20 2004

Effective Date AUG 20 2004



for Stephen S. Tuber
Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate can be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. A current copy of Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are provided at issuance of this Permit.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit), and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Injection operation may commence only after all construction and pre-injection requirements herein have been met and approved. Except for new wells authorized by an Area Permit under 40 CFR 144.33 (c), the Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injected or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

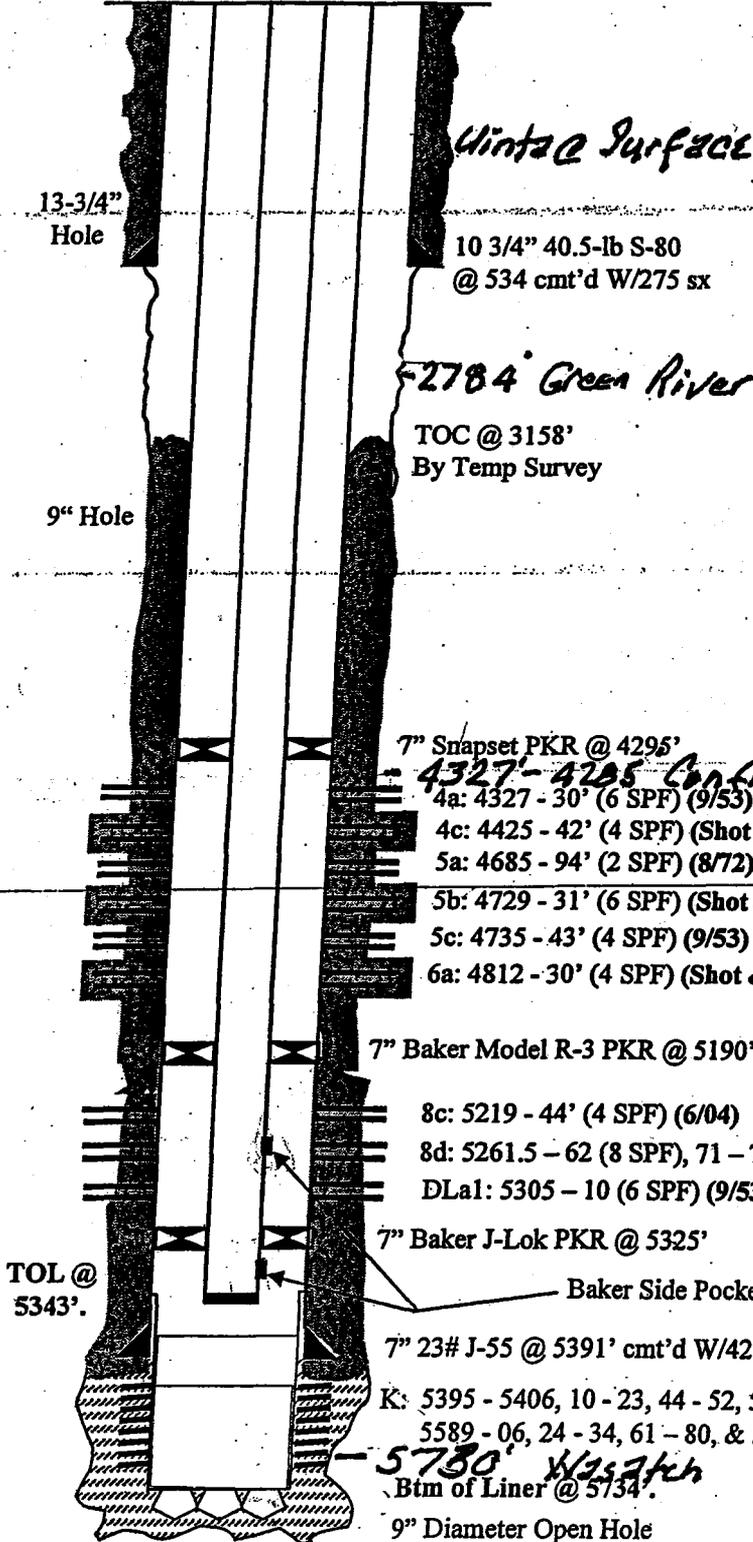
- A 10-3/4 inch surface casing is set at 534 feet in a 13-3/4 inch hole with 275 sacks of cement which was circulated to the surface.
- A 7 inch longstring is set in a 9 inch hole at 5391 feet with 425 sacks of cement. The operator identifies the top of cement, by Temperature Log, at 3158 feet.
- A 5-1/2 inch liner is set from 5343 feet to 5734 feet
- Total depth by driller is 5754 feet in the Wasatch Formation. Plug back total depth is 5738 feet in the Wasatch Formation.
- A 7 inch Snapset Packer will be set at 4295 feet.
- A 7 inch Baker Model R -3 Packer will be set at 5190 feet.
- A Baker Side Pocket Mandrel Injection Regulator will be set at 5256 feet.
- A 7 inch Baker - Lok Packer will be set at 5325 feet.
- A Baker Side Pocket Mandrel Injection Regulator will be set at 5334 feet.
- Open perforations between a packer at 4295 feet and a packer at 5190 feet will be utilized for enhanced recovery injection at a later date.

4/20/04

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
2110' ENL, 660 FWL, SW NW, Section 11, T-7-S, R-23-E
UINTAH CO., UTAH
PROPOSED

KB: 10 FT

Status: Active Water Injection



TUBING DETAIL			
Qty	Description	Length	Depth
—	KB (used)	10.00	10.00
137	2 7/8" J-55 6.5# 8rd EUE tbg	4,278.60	4,288.60
1	Snapset Type PKR	6.40	4,295.00
28	2 7/8" J-55 6.5# 8rd EUE tbg	889.00	5,184.00
1	Baker Model R-3 PKR	6.00	5,190.00
2	2 7/8" J-55 6.5# 8rd EUE tbg	63.00	5,253.00
1	Baker Side Pocket Mandrel	3.00	5,256.00
2	2 7/8" J-55 6.5# 8rd EUE tbg	63.00	5,319.00
1	Baker J-Lok PKR	6.00	5,325.00
1	2 7/8" x 6' pup jt	6.00	5,331.00
1	Baker Side Pocket Mandrel	3.00	5,334.00
1	2 7/8" x 6' pup jt	6.00	5,340.00
1	Standing Valve	1.00	5,341.00
1	S.N.	1.00	5,342.00

LINER DETAIL			
Qty	Description	Length	Depth
—	Liner Top	5343.00	5,343.00
1	7" X 5 1/2" "J" risg siv W/entry gd	1.22	5,344.22
1	5 1/2" STCX 5 1/2" Hydril 511 XO	1.55	5,345.77
9	5 1/2" 17# Hydril 511 csg liner	383.74	5,729.51
1	5 1/2" X 4 1/2" XO W/packoff bshg	0.67	5,730.18
1	4 1/2" X 4' csg pup jt	3.88	5,734.06
1	6 1/8" Smith Rock Bit	0.45	5,734.51

TD: 5754' : PBTD: 5738'

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: WHU 26 (Bamberger 1)	
TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Prior to authorization to inject
Step Rate Test	Within 180-days after authorization to inject
Radioactive Tracer Survey (2)	Within 180-days after authorization to inject
Pore Pressure	Prior to authorization to inject

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
WHU 26 (Bamberger 1)	1,497

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: WHU 26 (Bamberger 1)	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
	FORMATION NAME	4,327.00	5,730.00
Green River			

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and averaged annulus pressure(s) (psig)
	Each month's averaged injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

**Citation Oil & Gas Corp.
8223 Willow Place South
Houston, TX 84112303**

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

- PLUG NO. 1: Set Cast Iron Cement Retainer (CICR) approximately 5325 feet (KB). Pump 100 sacks of 50/50 Pozmix under CICR.
- PLUG NO. 2: Set CICR approximately 4300 feet KB. Pump 290 sacks of 50/50 Pozmix under CICR. Place 10 sacks of 50/50 Pozmix on top of CICR.
- PLUG NO. 3: Spot a cement plug between 2000 feet and 2200 feet.
- PLUG NO. 4: Perforate 4 squeeze holes at 584 feet. Set CICR at 534 feet. Pump 40 sack of 50/50 Pozmix under CICR. Set 10 sacks of Pozmix on top of CICR.
- PLUG NO. 5: Place cement plug from surface to a depth of 100 feet inside of 7 inch casing.

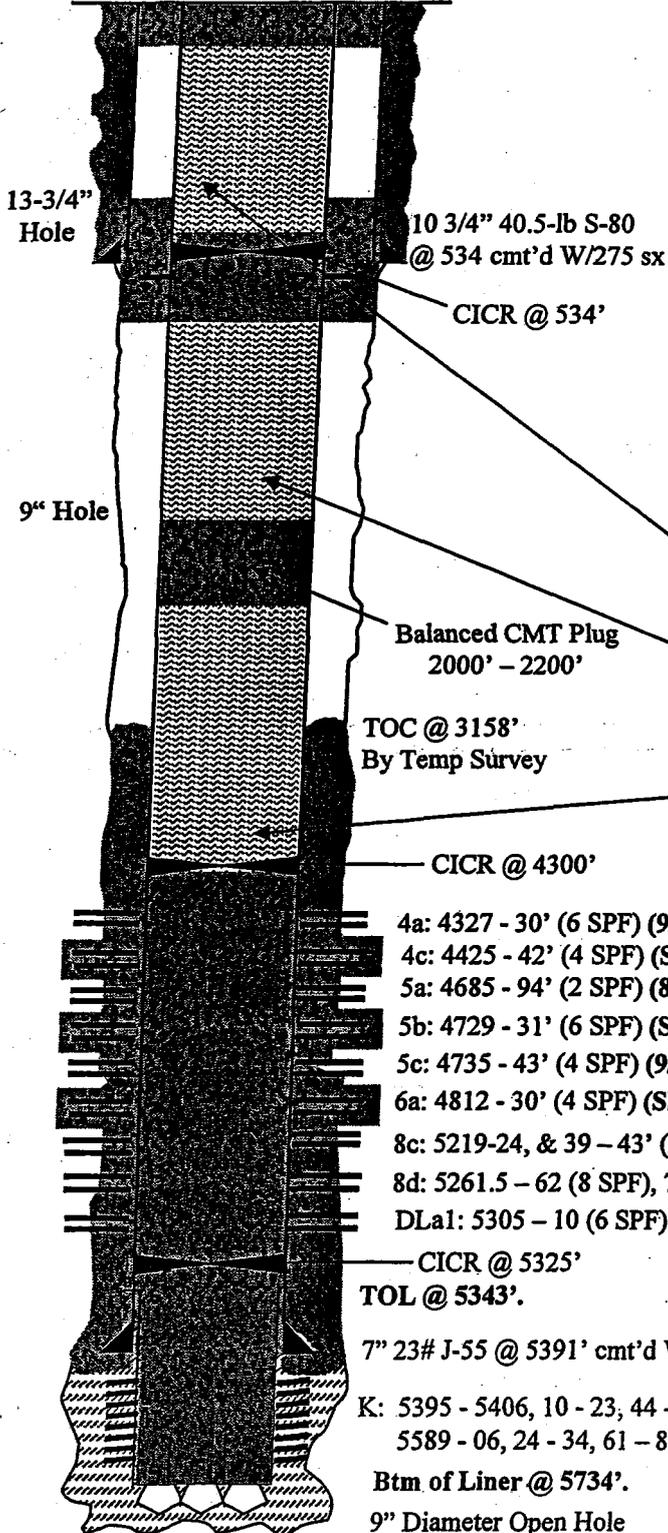
Operator will place 9 ppg gel between all cement plugs and CICRs.

3/10/04

**CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
PROPOSED PLUG & ABANDON CONFIGURATION
2110' FNL, 660 FWL, SW NW, Section 11, T-7-S, R-23-E
UINTAH CO., UTAH**

KB: 10 FT

Status: Active Water Injection



TD: 5754'

TUBING DETAIL

Qty	Description	Length	Depth
—	KB (used)	10.00	10.00

LINER DETAIL

Qty	Description	Length	Depth
—	Liner Top	5343.00	5,343.00
1	7" X 5 1/2" "J" rlsq slv W/entry gd	1.22	5,344.22
1	5 1/2" STCX 5 1/2" Hydril 511 XO	1.55	5,345.77
9	5 1/2" 17# Hydril 511 csg liner	383.74	5,729.51
1	5 1/2" X 4 1/2" XO W/packoff bshg	0.67	5,730.18
1	4 1/2" X 4' csg pup jt	3.88	5,734.06
1	6 1/8" Smith Rock Bit	0.45	5,734.51

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is deemed necessary for this project.



United States Environmental Protection Agency
Washington, DC 20460

Application To Transfer Permit

Name and Address of Existing Permittee

Name and Address of Surface Owner

Locate Well and Outline Unit on
Section Plat- 640 Acres.

State

County

Permit Number

Surface Location Description

___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section ___ Township ___ Range ___

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ___ ft. from (N/S) ___ Line of quarter section
and ___ ft. from (E/W) ___ Line of quarter section.

Well Activity

Well Status

Type of Permit

___ Class I

___ Operating

___ Individual

___ Class II

___ Modification/Conversion

___ Area

___ Brine Disposal

___ Proposed

Number of Wells ___

___ Enhanced Recovery

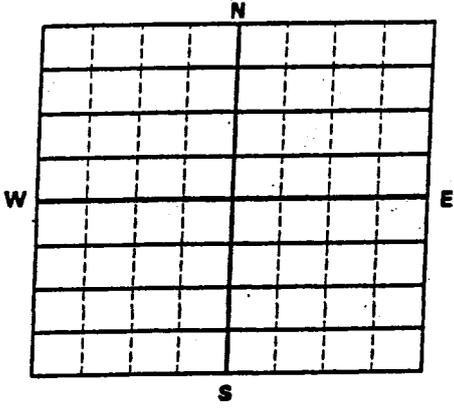
___ Hydrocarbon Storage

___ Class III

___ Other

Lease Number

Well Number



Name(s) and Address(es) of New Owners(s)

Name and Address of New Operator

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed



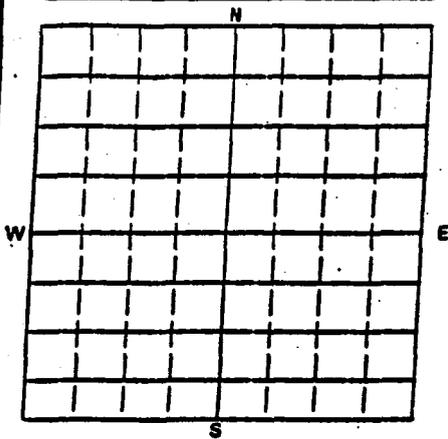
**COMPLETION REPORT FOR BRINE DISPOSAL,
HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL**

Approval Expires 6-30-98

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 840 ACRES



STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section ___ Township ___ Range ___

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ___ ft. from (N/S) ___ Line of quarter section
and ___ ft. from (E/W) ___ Line of quarter section

WELL ACTIVITY

TYPE OF PERMIT

- Brine Disposal Individual
 Enhanced Recovery Area
 Hydrocarbon Storage Number of Wells ___

Estimated Fracture Pressure
of Injection Zone

Anticipated Daily Injection Volume (Bbls)

Injection Interval

Average

Maximum

Feet

to Feet

Anticipated Daily Injection Pressure (PSI)

Depth to Bottom of Lowermost Freshwater Formation (Feet)

Average

Maximum

- Type of Injection Fluid (Check the appropriate block(s))
- Salt Water Brackish Water Fresh Water
 Liquid Hydrocarbon Other

Lease Name

Well Number

Name of Injection Zone

Date Drilling Began

Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

CASING AND TUBING

CEMENT

HOLE

OD Size	Wt/Pt — Grade — New or Used	Depth	Secs	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION

WIRE LINE LOGS, LIST EACH TYPE

Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

DATE SIGNED



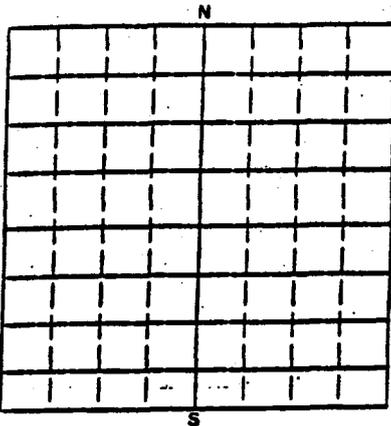
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section
and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- Individual
 - Area
- Number of Wells ____

Well Number

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types

Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED



PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

STATE

COUNTY

PERMIT NUMBER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT - 640 ACRES

SURFACE LOCATION DESCRIPTION

1/4 OF 1/4 OF 1/4 SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section
and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION

- Individual Permit
- Area Permit
- Rule

Number of Wells ____

Lease Name

Describe in detail the manner in which the fluid was placed the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

WELL ACTIVITY

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- CLASS I
- CLASS II
 - Brine Disposal
 - Enhance Recovery
 - Hydrocarbon Storage
- CLASS III

- The Balance Method
- The Dump Saker Method
- The Two-Plug Method
- Other

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inch)							
Open to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 35
Procedures to follow when excessive annular pressure is
observed on a well.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

The following procedure is intended as an aid to UIC field inspectors when they encounter excessive annular pressure on a well. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

Usually, annular pressure is a direct indication of a loss of mechanical integrity. In some instances, recurring annular pressure may be caused by fluctuations in the temperature of the injected fluid. These temperature fluctuations may cause the annular pressure to increase when a hot fluid is being injected and decrease as the temperature of the injected fluid cools. The presence of temperature-induced pressure on the annulus does not indicate a malfunction in the casing/tubing/packer system and is not considered a loss of mechanical integrity. Wells exhibiting recurring temperature-induced annular pressure may be allowed to continue injecting if a temperature monitoring program is approved and followed.

This guidance was written to help determine the cause of annular pressure. When the procedures in this guidance are followed, any major mechanical integrity problems (a breach in the casing/tubing/packer system) will become apparent quickly. A quick determination will allow the operator to begin follow-up procedures immediately to prevent contamination to USDWs.

Use Section Guidance No. 35 to determine if the well has experienced a loss of mechanical integrity. If you find that there is a loss of mechanical integrity, use *Headquarters Guidance No. 76. - Follow-up to loss of Mechanical Integrity for Class II Wells* to bring the well back into compliance. The use of Section Guidance No. 35 is not to be confused with, nor does it supersede any provision of Headquarters Guidance No. 76. Instead, the two guidance documents are meant to work together to identify and to remedy any potential mechanical integrity failure.

A flowchart for Section Guidance No. 35 is included for quick reference in the field.

PROCEDURES TO FOLLOW WHEN EXCESSIVE ANNULAR PRESSURE IS OBSERVED

During field inspections, the following procedures should be followed when excessive annular pressure is observed. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

NOTE CONDITIONS AT THE WELL

Note tubing and annular pressure readings, and the operating status of the well (injecting, shut-in, etc.) on the UIC inspection form.

SEE IF ANNULUS PRESSURE WILL BLEED-OFF

Attempt to bleed the pressure from the annulus by having the operator open the annulus (for a maximum of sixty seconds).

It is the operator's responsibility to collect and dispose of any fluids bled from the annulus.

DID THE ANNULAR PRESSURE BLEED TO 0 PSI WITHIN SIXTY SECONDS?

YES

NO

Have the operator close the annulus.

Have the operator close the annulus.

On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.

On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

SEE IF PRESSURE RETURNS WITHIN 15 MINUTES

Continue to monitor the well for annulus pressure return for at least 15 minutes after the annulus valve is closed.

DOES PRESSURE
RETURN TO THE
ANNULUS AFTER 15
MINUTES?

YES

NO

On your inspection form, note the annulus and tubing pressures recorded after 15 minutes.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

DOES PRESSURE
RETURN TO THE
ANNULUS WITHIN
14 DAYS?

YES

NO

EPA Technical Expert will design a proper Mechanical Integrity test.

Compliance officer will require the operator to conduct the test within 14 days.

The well is considered to have mechanical integrity.

END PROCEDURE.

DOES THE WELL
PASS THE MIT?

YES

NO

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

DOES PRESSURE
RETURN TO THE
ANNULUS WITHIN
14 DAYS?

YES

NO

EPA Technical Expert will design a proper Monitoring Program to determine the cause of recurrent annular pressure.

The well is considered to have mechanical integrity.

END PROCEDURE.

Compliance officer will require the operator to begin the Monitoring program within 14 days.

Conduct unannounced inspections at the well during the Monitoring Program.

IS THE ANNULUS
PRESSURE CAUSED
BY TEMPERATURE?

YES

NO

EPA Technical Expert will design a proper Temperature Monitoring Program that allows injection to continue while tracking relationship between temperature and recurrent annulus pressure.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

Compliance officer will require the operator to cease injection immediately if the operator fails to follow the Temperature Monitoring Program.

END PROCEDURE.

Compliance officer will require the operator to cease injection immediately if recurrent annular pressures cannot be explained by the results of the Temperature Monitoring Program.

Compliance officer will require annual Mechanical Integrity Tests using the standard pressure method.

14-DAY PRESSURE MONITORING

Please use this form to report data for a 14-day period after pressure is bled from the tubing-casing annulus. Please telephone EPA in Denver as soon as possible when/if pressure returns to the annulus. This data will be used to determine the cause(s) of recurrent annular pressure.

NOTE: DO NOT BLEED PRESSURE FROM ANNULUS DURING THE 14-DAY MONITORING PERIOD.

	DATE	TIME	ANNULUS PRESSURE (psi)	TUBING PRESSURE (psi)	WELL INJECTING (YES/NO)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

WELL NAME: _____

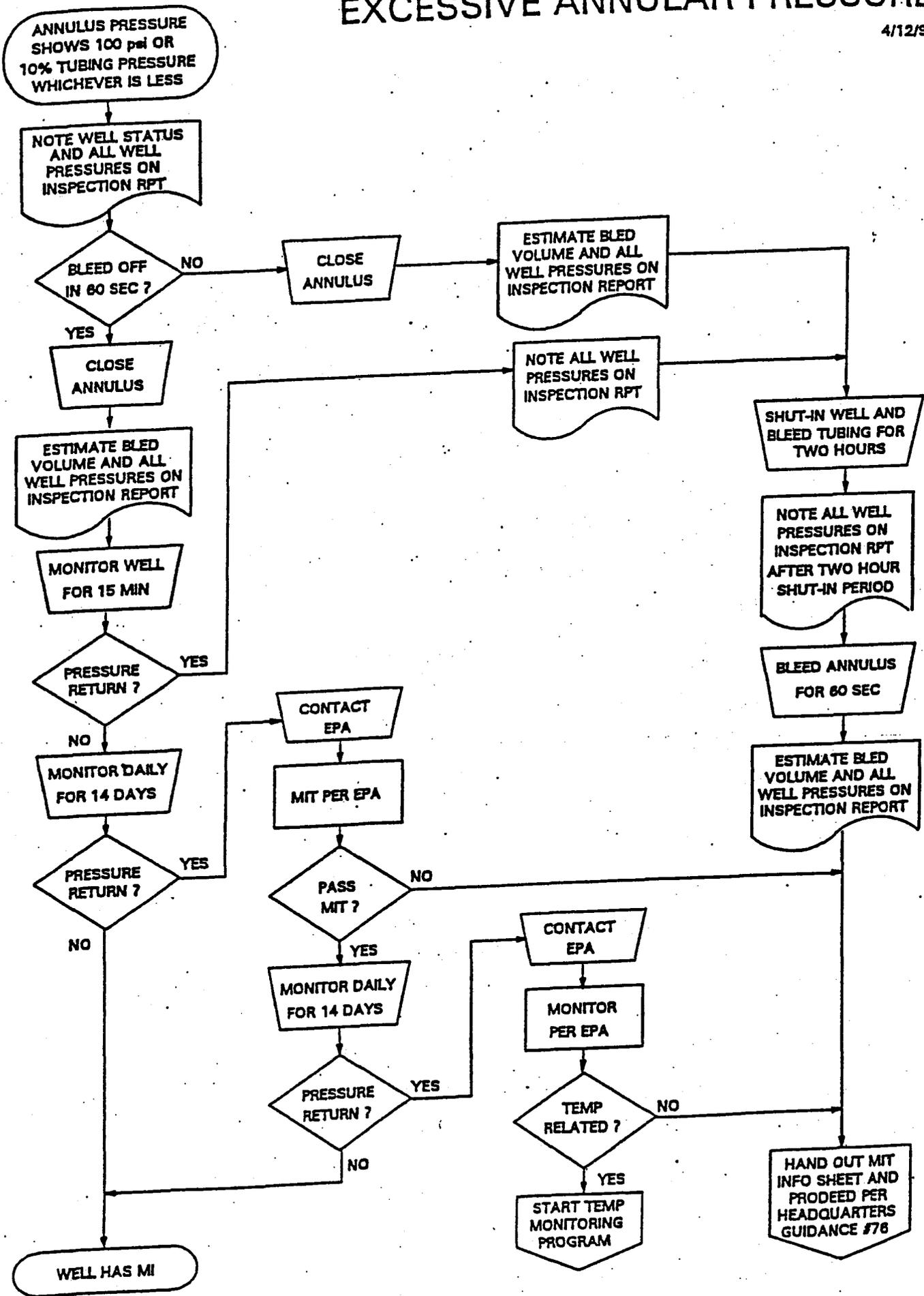
ATOR: _____

SIGNATURE: _____

DATE: _____

EXCESSIVE ANNULAR PRESSURE

4/12/94





OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES

- 1) IMMEDIATELY - Cease injection and shut-in the well as rapidly as feasible. In no case shall the well remain in operation beyond 48 hours unless Tom Pike, Chief, Underground Injection Control Implementation (UIC-I) Section [(303) 293-1544] allows for temporary operation of the well.
- 2) WITHIN 24 HOURS - Verbally notify the UIC-I Section Chief of MIT failure even in cases where the failure is detected during a test which was witnessed by a UIC inspector.
- 3) WITHIN 5 DAYS - Submit a written follow-up report documenting test results, remediation taken or a proposed remediation plan and any limits established by the Director on appropriate volume or time for continued injection operation.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 300
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37
Demonstrating Part II (external) Mechanical Integrity
for a Class II injection well permit.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - INTERNAL MECHANICAL INTEGRITY is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - EXTERNAL MECHANICAL INTEGRITY demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34);
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the

test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____
 Test conducted by: _____
 Others present: _____

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: ____ T ____ N/S R ____ E/W	County: _____ State: _____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? Yes No

Initial test for permit? Yes No

Test after well rework? Yes No

Well injecting during test? Yes No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MITDATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING/TUBING ANNULUS PRESSURE			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? Yes No



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal)
Mechanical Integrity

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f) (2) and 40 CFR 144.51 (q) (1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which



would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter



depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording



chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.
2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the



well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.
10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.



15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment



STATEMENT OF BASIS

**CITATION OIL & GAS CORPORATION
WHU 26 (BAMBERGER 1)
UINTAH COUNTY, UT**

EPA PERMIT NO. UT20971-02533

CONTACT: Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1-800-227-8917 ext. 6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the operation of an "existing" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Citation Oil & Gas Corporation
8223 Willow Place South
Suite 250
Houston, TX 77070

on

March 16, 2004

submitted an application for an Underground Injection Control (UIC) Program Permit for the following injection well or wells:

WHU 26 (Bamberger 1)
2110' FNL & 660' FWL, SWNW S11, T7S, R23E
UINTAH County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

An "existing" well is an injection well which began injection operation prior to the November 25, 1988 effective date for the UIC Program on all Indian lands in Utah.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

TABLE 1.1		
WELL STATUS / DATE OF OPERATION		
EXISTING WELLS		
Well Name	Well Status	Date of Operation
WHU 26 (Bamberger 1)	Existing	12/9/1969

Hydrogeologic Setting

Geologic Setting (TABLE 2.1)

**TABLE 2.1
GEOLOGIC SETTING
WHU 26 (Bamberger 1)**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Green River	2,784.00	5,730.00	3,733.00	The Green River Formation is mostly lacustrine shale with some limestone, marlstone, and siltstone. The formation also includes beds of oil shale and carbonate evaporite. In most of the basin the formation yields only saline or briny water, though in and near the areas of outcrop the water is fresh to slightly saline.

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by the confining zone which is free of known open faults or fractures within the Area of Review.

On April 14, 1993, the EPA, in agreement with the State of Utah, exempted the Green River Formation as an Underground Source of Drinking Water (USDW) in the Red Wash, Stagecoach, Walker Hollow, White River, Gypsum Hills and Wonsits Valley oil fields.

**TABLE 2.2
INJECTION ZONES
WHU 26 (Bamberger 1)**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	4,327.00	5,730.00	3,733.00	0.780		E

* C - Currently Exempted
 E - Previously Exempted
 P - Proposed Exemption
 N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

**TABLE 2.3
CONFINING ZONES
WHU 26 (Bamberger 1)**

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	Slightly calcareous gray shale with minor occurrence of calcareous gray silty shale.	4,285.00	4,327.00

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

**TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
WHU 26 (Bamberger 1)**

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta and Green River	Generally porous/permeable sandstone of varying thickness.	0.00	5,730.00	300.00 - 3,733.00

PART III. Well Construction (40 CFR 146.22)

**TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
WHU 26 (Bamberger 1)**

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Longstring	9.00	7.00	0.00 - 5,391.00	3,158.00 - 5,754.00
Surface	13.75	10.75	0.00 - 534.00	0.00 - 534.00
Liner	7.00	5.50	5,343.00 - 5,734.00	3,158.00 - 5,754.00

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The constuction of this "existing" injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for "existing" injection well or wells are shown in TABLE 3.1.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment allowing for monitoring pressures and providing access for sampling the injected fluid. This equipment includes: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) pressure gauges attached to the injection tubing and the TCA to monitor the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Under 40 CFR 144.55, "existing" wells are exempt from corrective action requirements. The applicant has shown that this well qualifies for such an exemption because the well began injection operation prior to the November 25, 1988 effective date of the UIC Program on all Indian lands in Utah.

PART V. Well Operation Requirements (40 CFR 146.23)

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	4,327.00	0.780	1,495

Approved Injection Fluid

The approved injection fluid is limited to fluids which meet requirements pursuant to 40 CFR §

144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be comingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are not approved.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit,

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

- FP = formation fracture pressure (measured at surface)
- fg = fracture gradient (from submitted data or tests)
- sg = specific gravity (of injected fluid)
- d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependant upon well-specific conditions as explained below:

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

Part I MI - Internal MI will be demonstrated prior to beginning injection. Since this well is

constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing, or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, whichever is less, with ten percent or less pressure loss over thirty minutes.

There were no cased hole logs run on the WHU No. 26 that would permit EPA analysis of the effectiveness of the annulus cement, i.e., 80% bond index cement bond. Therefore, the permittee will be required to conduct a Part II (External) Mechanical Integrity Test within a 180-day Limited Authorization to Inject period. EPA Guidance for conducting a Part II (External) Mechanical Integrity Test is enclosed.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, injection flow rate and cumulative fluid volume, and the maximum and average value for each must be determined for each month. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well or wells must be plugged with cement in a manner which will not allow the movement of fluids either into or between USDWs. The plugging and abandonment plan is described in Appendix E of the Permit.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Financial Statement, received May 4, 2004

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: SLC 066357
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>WI</u>		7. UNIT or CA AGREEMENT NAME: Walker Hollow Unit
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		8. WELL NAME and NUMBER: Walker Hollow Unit 26
3. ADDRESS OF OPERATOR: P O Box 690688 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77269</u>		9. API NUMBER: 4304715548
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>2110' FNL & 660' FWL</u>		10. FIELD AND POOL, OR WLD CAT: Walker Hollow Green River
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SWNW 11 7S 23E</u>		COUNTY: <u>Uintah</u>
		STATE: <u>UTAH</u>

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

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Citation proposes to run a snapset packer at 4295', MIT well for EPA compliance and return to injection with attached procedure.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) <u>Sharon Ward</u>	TITLE <u>Permitting Manager</u>
SIGNATURE <u>Sharon Ward</u>	DATE <u>7/14/2006</u>

(This space for State use only)

RECEIVED
JUL 17 2006
DIV. OF OIL, GAS & MINING

Work Over Procedure:

Comments: 1. Injection Well

Objective: Obtain MIT and return to injection.

1. MIRUSU.
2. ND Tree. NU 3M BOP's. Release packer from 5147' and TOO H w/ 2-7/8" tubing, standing back. Perform visual inspection of tubing.
3. PU and RIH w/BHA, set Arrowset packer at 5147' and snap set at 4295'.
4. Perform MIT to 1500 psi and report results to Chad Stallard and Nathan Wiser EPA. Wait on approval from EPA to resume injection.

List of Citation Contacts

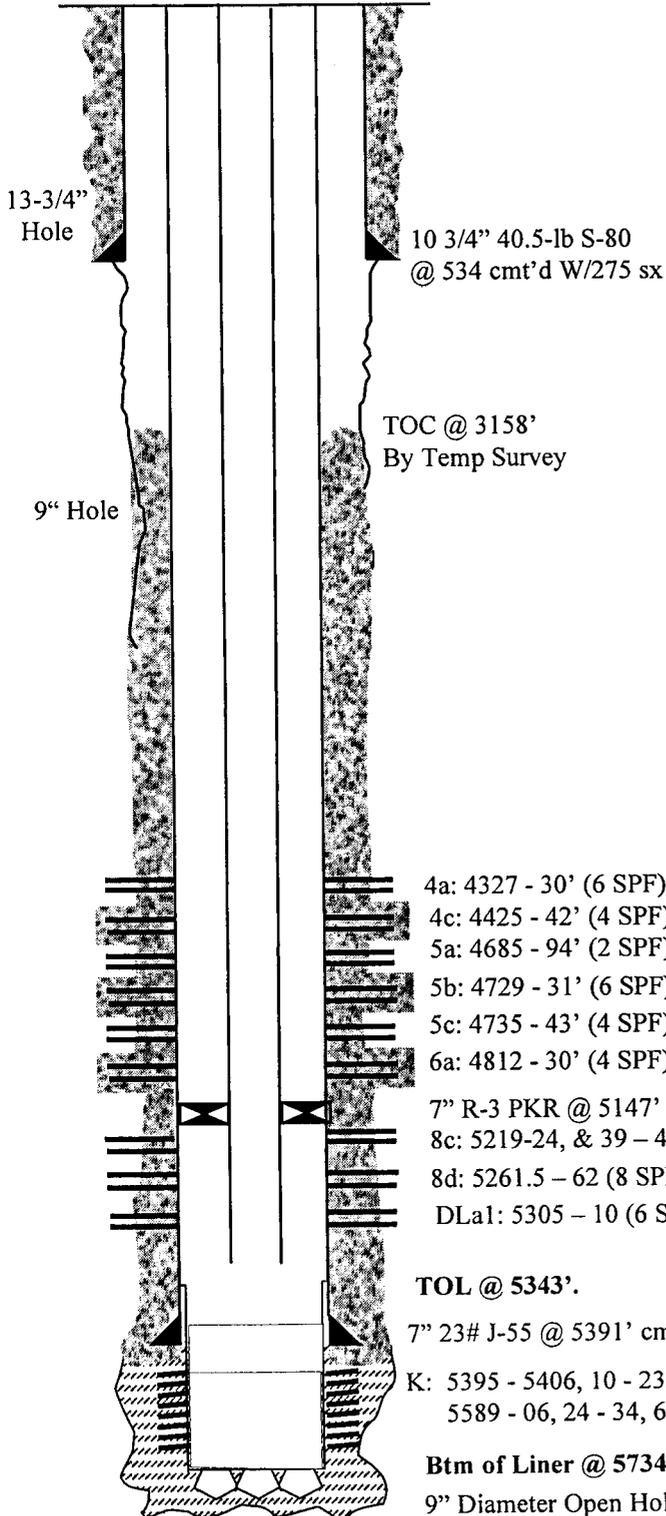
Foreman	Robert Eye	Cell: 435.790.4406	Home: 435.781.4147
Engineer	Chad Stallard	Office: 281-517-7527	Cell: 713.249.4671

7/13/06

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
2110' FNL, 660 FWL, SW NW, Section 11, T-7-S, R-23-E
UINTAH CO., UTAH
Current

KB: 10 FT

Status: Shut In



TD: 5754' : PBTD: 5738'

TUBING DETAIL			
Qty	Description	Length	Depth
---	KB (used)	10.00	10.00
137	2 7/8" J-55 6.5#, 8rd EUE IPC tbg	4,278.60	4,288.60
1	7" Snapset PKR	6.10	4,294.70
??	2 7/8" J-55 6.5#, 8rd EUE IPC tbg	843.85	5,138.55
1	SN	1.10	5,139.65
1	7" R-3 PKR	8.00	5,147.65

LINER DETAIL			
Qty	Description	Length	Depth
---	Liner Top	5343.00	5,343.00
1	7" X 5 1/2" "J" rlsq slv W/entry gd	1.22	5,344.22
1	5 1/2" STCX 5 1/2" Hydril 511 XO	1.55	5,345.77
9	5 1/2" 17# Hydril 511 csg liner	383.74	5,729.51
1	5 1/2" X 4 1/2" XO W/packoff bshg	0.67	5,730.18
1	4 1/2" X 4' csg pup jt	3.88	5,734.06
1	6 1/8" Smith Rock Bit	0.45	5,734.51

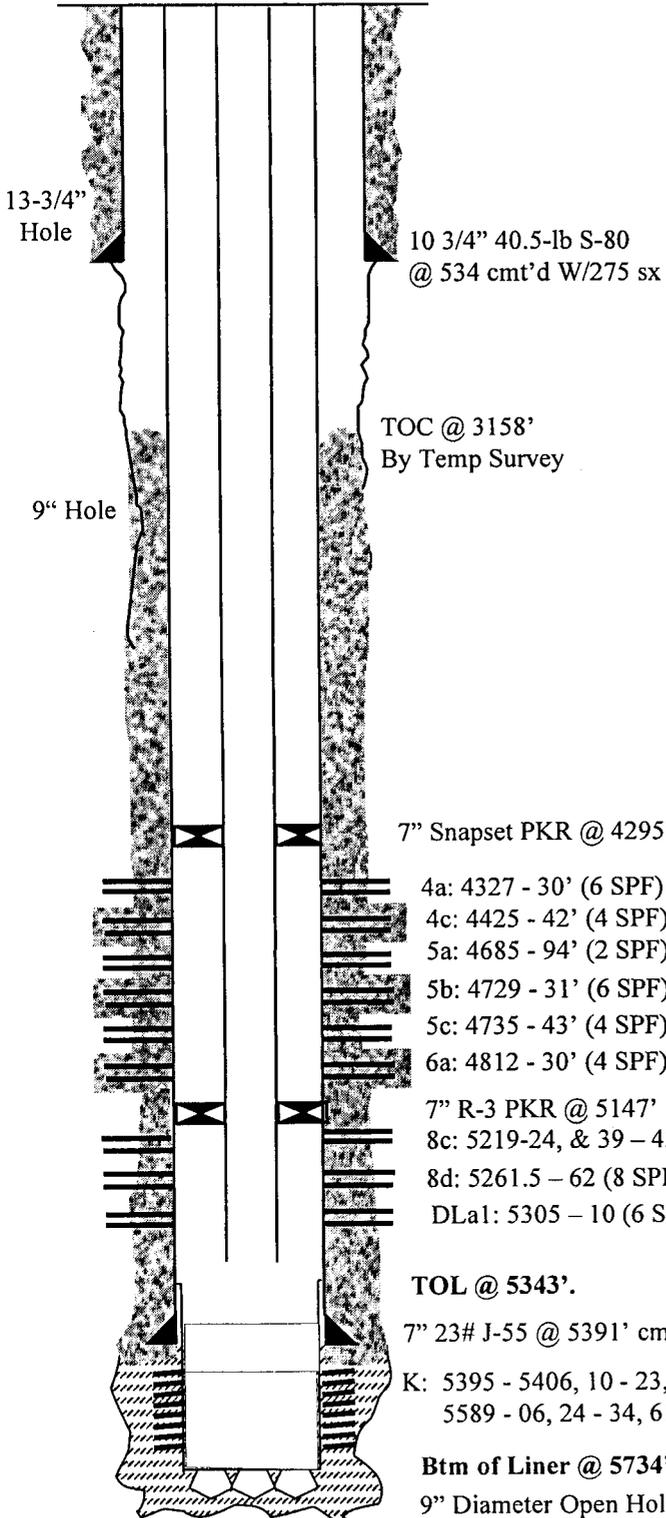
4a: 4327 - 30' (6 SPF) (9/53)
 4c: 4425 - 42' (4 SPF) (Shot - 4/60) (SQZ'd - 10/71)
 5a: 4685 - 94' (2 SPF) (8/72)
 5b: 4729 - 31' (6 SPF) (Shot & SQZ'd - 9/53)
 5c: 4735 - 43' (4 SPF) (9/53)
 6a: 4812 - 30' (4 SPF) (Shot & SQZ'd - 4/60)
 7" R-3 PKR @ 5147'
 8c: 5219-24, & 39 - 43' (2 SPF) (10/71)
 8d: 5261.5 - 62 (8 SPF), 71 - 77 (6 SPF), 81 - 85 (6 SPF), & 94.5 - 95' (8 SPF) (9/53)
 DLal: 5305 - 10 (6 SPF) (9/53)
TOL @ 5343'.
 7" 23# J-55 @ 5391' cmt'd W/425 sx
 K: 5395 - 5406, 10 - 23, 44 - 52, 58 - 78, 5501 - 08, 12 - 19, 69 - 79,
 5589 - 06, 24 - 34, 61 - 80, & 5710 - 24' (4 JSPF) (1/02)
Btm of Liner @ 5734'.
 9" Diameter Open Hole

7/13/06

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
2110' FNL, 660 FWL, SW NW, Section 11, T-7-S, R-23-E
UINTAH CO., UTAH
Proposed

KB: 10 FT

Status: Shut In



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TOC @ 3158'
By Temp Survey

7" Snapset PKR @ 4295'

- 4a: 4327 - 30' (6 SPF) (9/53)
- 4c: 4425 - 42' (4 SPF) (Shot - 4/60) (SQZ'd - 10/71)
- 5a: 4685 - 94' (2 SPF) (8/72)
- 5b: 4729 - 31' (6 SPF) (Shot & SQZ'd - 9/53)
- 5c: 4735 - 43' (4 SPF) (9/53)
- 6a: 4812 - 30' (4 SPF) (Shot & SQZ'd - 4/60)
- 7" R-3 PKR @ 5147'
- 8c: 5219-24, & 39 - 43' (2 SPF) (10/71)
- 8d: 5261.5 - 62 (8 SPF), 71 - 77 (6 SPF), 81 - 85 (6 SPF), & 94.5 - 95' (8 SPF) (9/53)
- DLa1: 5305 - 10 (6 SPF) (9/53)

TOL @ 5343'.

7" 23# J-55 @ 5391' cmt'd W/425 sx

- K: 5395 - 5406, 10 - 23, 44 - 52, 58 - 78, 5501 - 08, 12 - 19, 69 - 79, 5589 - 06, 24 - 34, 61 - 80, & 5710 - 24' (4 JSPP) (1/02)

Btm of Liner @ 5734'.

9" Diameter Open Hole

TD: 5754' : PBTD: 5738'

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: SL 066357
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		7. UNIT or CA AGREEMENT NAME: Walker Hollow UTU 66837A
2. NAME OF OPERATOR: Citation Oil & Gas Corp.		8. WELL NAME and NUMBER: Walker Hollow Unit 26
3. ADDRESS OF OPERATOR: P O Box 690688 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77269</u>		9. API NUMBER: 4304715548
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2110' FNL & 660' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 11 7S 24E		10. FIELD AND POOL, OR WILDCAT: Walker Hollow Green River COUNTY: Uintah 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"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>Well Integrity</u>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/20/2006			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 A successful MIT was performed on this well on 10/20/2006. A copy of the report is attached.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

NAME (PLEASE PRINT) <u>Debra Harris</u>	TITLE <u>Production Analyst III</u>
SIGNATURE <u><i>Debra Harris</i></u>	DATE <u>10/25/2006</u>

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: N/A Date: 10 120 106
 Test conducted by: Robert Eye - COGC
 Others present: Denny Hadlock - Big Red Hot Oilers

Well Name: <u>WHU # 26</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Walker Hollow</u>	<u>SWI</u>	
Location: <u>SW/NW</u> Sec: <u>11</u> T <u>2</u> N <u>(S)</u> R <u>23</u> <u>(E)</u> W	County: <u>Utah</u>	State: <u>UT</u>
Operator: <u>Citation Oil & Gas</u>		
Last MIT: <u>11 15 12001</u>		Maximum Allowable Pressure: <u>1497</u> PSIG

Is this a regularly scheduled test? Yes No
 Initial test for permit? Yes No
 Test after well rework? Yes No
 Well injecting during test? Yes No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 / 210 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>210</u> psig	psig	psig
End of test pressure	<u>210</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1540</u> psig	psig	psig
5 minutes	<u>1538</u> psig	psig	psig
10 minutes	<u>1530</u> psig	psig	psig
15 minutes	<u>1538</u> psig	psig	psig
20 minutes	<u>1534</u> psig	psig	psig
25 minutes	<u>1520</u> psig	psig	psig
30 minutes	<u>1520</u> psig	psig	psig
<u>35</u> minutes	<u>1520</u> psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? Yes No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Denny Hadlock Robert Eye

60 0

START

5

10

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Graphic Controls
 10/20/06
 CHART NO. MC MP-2000-1H

METER

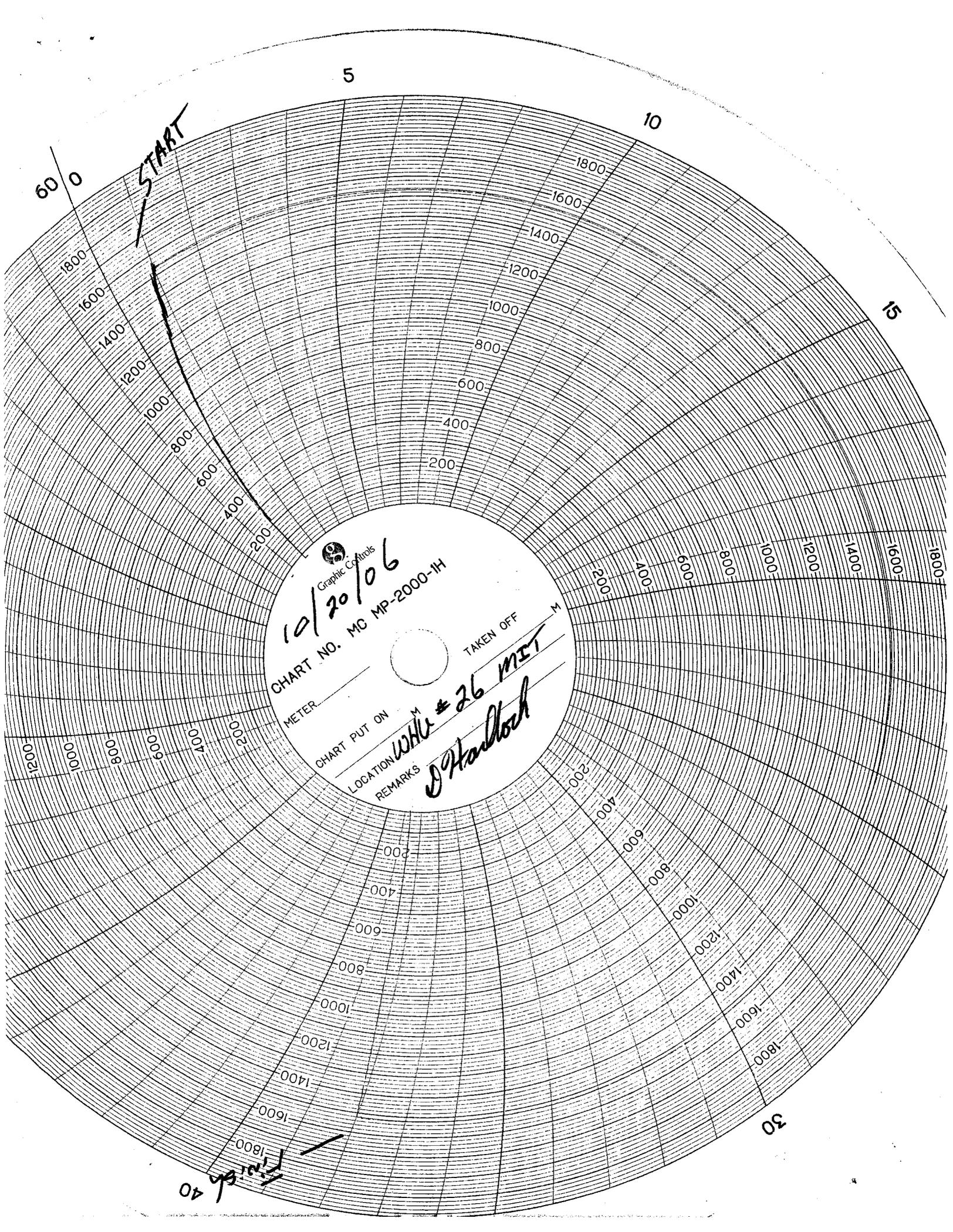
CHART PUT ON

TAKEN OFF

LOCATION *WHU #26 MET*
 REMARKS *J. Handloch*

From 40

30





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

NOV 26 2007

Ref: 8P-W-GW

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

CERTIFIED MAIL 7005-1160-0005-3397-1527
RETURN RECEIPT REQUESTED

Ms. Sharon Ward
Citation Oil & Gas Corporation
P.O. Box 690688
Houston, TX 77269-0688

43-047-15548
75 23E 11

Re: **Minor Modification No. 1**
Revision of Appendix A
EPA Permit No. UT20971-02533
Well: Walker Hollow Unit 26
Uintah County, Utah

Dear Ms. Ward:

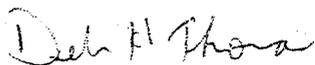
On July 24, 2006, the Region 8 Ground Water Program offices of the Environmental Protection Agency (EPA) received a request to modify construction requirements for the above-referenced permit to Citation Oil & Gas Corporation. EPA has reviewed the request and determined that minor modification of this permit is required. Pursuant to 40 CFR §144.41(f), EPA hereby modifies permit bearing number UT20971-02533 reflecting the construction modification. Please replace the revised Appendix A in your EPA permit bearing number UT20971-02533.

In addition, Citation Oil & Gas Corporation has met the mechanical integrity demonstration requirements under Title 40 of the Code of Federal Regulations (40 CFR), Section 144.51(q)(1). Authorization to resume injection into this well pursuant to 40 CFR 144.51(q)(2) is hereby granted.

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NOV 30 2007
DIV. OF OIL, GAS & MINING

Please note that EPA permit bearing number UT20971-02533 remains fully effective and enforceable and all other provisions and conditions of the area permit remain as issued or modified.

Sincerely,



Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

Enclosures (current modification)

cc:

Curtis Cesspooch, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Ronald Groves, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Irene Cuch, Vice Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Steven Cesspooch, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Phillip Chimbraus, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Frances Poowegup, Councilwoman
Uintah & Ouray Business Committee
Ute Indian Tribe

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency

Shawn Chapoose, Director
Land Use Department
Ute Indian Tribe

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Lynn Becker, Director
Energy and Minerals Department
Ute Indian Tribe

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

Initial Completion:

Perf Green River DL1a F/5305-10' (6 SPF).

Perf Green River 8d F/5261.5-62' (8 SPF), 71-77' (6 SPF), 81-85 (6 SPF), & 94.5-95' (8 SPF).

Sd-oil frac 8d perms F/5271-85 w/15 BBLs crude followed by 30 BBLs kerosene followed by 2000 gals #5 burner fuel containing 2000# sd followed by 75 BBLs crude @ 2900 psi max pressure.

Perf Green River 5b F/4729-31' (6 SPF) & Green River 5c F/4735-43' (6 SPF).

SQZ5b & 5c w/100sx cmt to 3000 psi. Reperf 5c F/4735-43' (4 SPF).

Sd-oil frac 5c perms F/4735-43' w/15 BBLs crude followed by 30 BBLs kerosene followed by 2000 gals #5 burner fuel containing 2000# sd @ 2400 psi max pressure. CO well & push CIB junk to 5419' in OH section of well.

Perf Green River 4a F/4327-30' (6 SPF).

SQZ 4a perms w/75 sx cmt to 3000 psi. CO well to 4374'. Reperf 4a F4327-30' (6 SPF). Could not break dn perms. CO well to CIBP @5293' PBTD.

The uppermost injection packer shall be set within 100' above the top existing perforation.

7/13/06

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
 2110' FNL, 660 FWL, SW NW, Section 11, T-7-S, R-23-E
 UTAH CO., UTAH
 Proposed

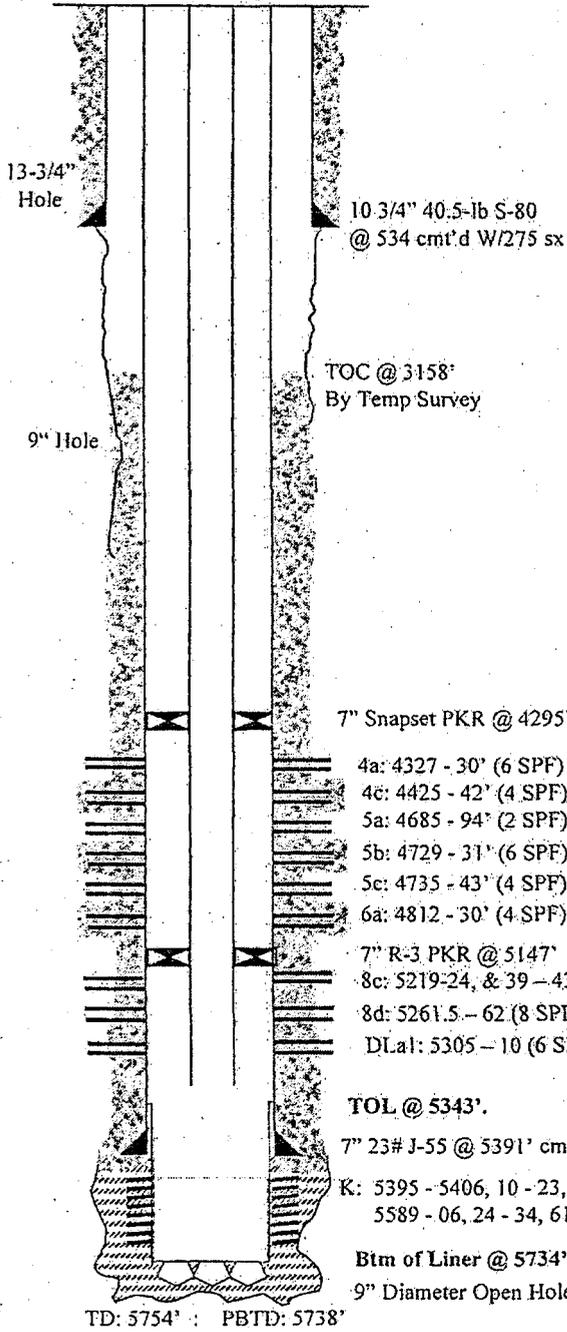
RECEIVED

JUL 24 2006

Office of Environmental
 Compliance & Safety

KB: 10 FT

Status: Shut In



TUBING DETAIL			
Qty	Description	Length	Depth
--	KB (used)	10.00	10.00
137	2 7/8" J-55 6.5#, 8rd EUE IPC tbg	4,278.60	4,288.60
1	7" Snapset PKR	6.10	4,294.70
??	2 7/8" J-55 6.5#, 8rd EUE IPC tbg	843.85	5,138.55
1	SN	1.10	5,139.65
1	7" R-3 PKR	8.00	5,147.65

LINER DETAIL			
Qty	Description	Length	Depth
--	Liner Top	5343.00	5,343.00
1	7" X 5 1/2" "J" risg slv W/entry gd	1.22	5,344.22
1	5 1/2" STCX 5 1/2" Hydril 511 XO	1.55	5,345.77
9	5 1/2" 17# Hydril 511 csg liner	383.74	5,729.51
1	5 1/2" X 4 1/2" XO W/packoff bshg	0.67	5,730.18
1	4 1/2" X 4" csg pup jt	3.88	5,734.06
1	6 1/8" Smith Rock Bit	0.45	5,734.51

7" Snapset PKR @ 4295'

- 4a: 4327 - 30' (6 SPF) (9/53)
- 4c: 4425 - 42' (4 SPF) (Shot - 4/60) (SQZ'd - 10/71)
- 5a: 4685 - 94' (2 SPF) (8/72)
- 5b: 4729 - 31' (6 SPF) (Shot & SQZ'd - 9/53)
- 5c: 4735 - 43' (4 SPF) (9/53)
- 6a: 4812 - 30' (4 SPF) (Shot & SQZ'd - 4/60)

7" R-3 PKR @ 5147'

- 8c: 5219-24, & 39 - 43' (2 SPF) (10/71)
- 8d: 5261.5 - 62 (8 SPF), 71 - 77 (6 SPF), 81 - 85 (6 SPF), & 94.5 - 95' (8 SPF) (9/53)
- DLal: 5305 - 10 (6 SPF) (9/53)

TOL @ 5343'

7" 23# J-55 @ 5391' cmt'd W/425 sx

- K: 5395 - 5406, 10 - 23, 44 - 52, 58 - 78, 5501 - 08, 12 - 19, 69 - 79, 5589 - 06, 24 - 34, 61 - 80, & 5710 - 24' (4 JSPF) (1/02)

Btm of Liner @ 5734'

9" Diameter Open Hole

TD: 5754' : PBTD: 5738'

Walker schematic.GIF

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
SL 066357

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:
Walker Hollow UTU 66837A

1. TYPE OF WELL OIL WELL GAS WELL OTHER Injection

8. WELL NAME and NUMBER:
Walker Hollow Unit 26

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

9. API NUMBER:
4304715548

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

PHONE NUMBER:
(281) 517-7800

10. FIELD AND POOL, OR WILDCAT:
Walker Hollow Green River

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2110' FNL & 660' FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 11 7S 24E 23E

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: 10/19/2011	<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>Well 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.

A successful MIT was performed on this well on 10/19/2011. A copy of the report is attached.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

NAME (PLEASE PRINT) Debra Harris

TITLE Regulatory Compliance Coordinator

SIGNATURE *Debra Harris*

DATE 10/31/2011

(This space for State use only)

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DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: N/A Date: 10/19/11 ^{WJS}
 Test conducted by: Jeff Oaks - COGC Leroy Carmickle - Big Red UTU 66837A
 Others present: APL: 4304715548 80.05009.1

Well Name: <u>Walker Hollow #26</u>	Type: ER (SWD)	Status: (AC) TA UC	
Field: <u>Walker Hollow</u>	Active Inj		
Location: <u>SW/NW</u> Sec: <u>11</u> T <u>7</u> N (S) R <u>24</u> (E) W County: <u>Uintah</u> State: <u>Ut</u>			
Operator: <u>Citation Oil & Gas</u>			
Last MIT: <u>10/20/06</u>	Maximum Allowable Pressure: <u>1497</u>	PSIG	

Is this a regularly scheduled test? Yes No
 Initial test for permit? Yes No
 Test after well rework? Yes No
 Well injecting during test? Yes No If Yes, rate: 319 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING PRESSURE				
Initial Pressure	<u>1000</u> psig			
End of test pressure	<u>1000</u> psig			
CASING / TUBING ANNULUS PRESSURE				
0 minutes	<u>1205</u> psig			
5 minutes	<u>1200</u> psig			
10 minutes	<u>1200</u> psig			
15 minutes	<u>1200</u> psig			
20 minutes	<u>1200</u> psig			
25 minutes	<u>1200</u> psig			
30 minutes	<u>1200</u> psig			
<u>31</u> minutes	<u>1200</u> psig			
_____ minutes	_____ psig			
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? Yes No

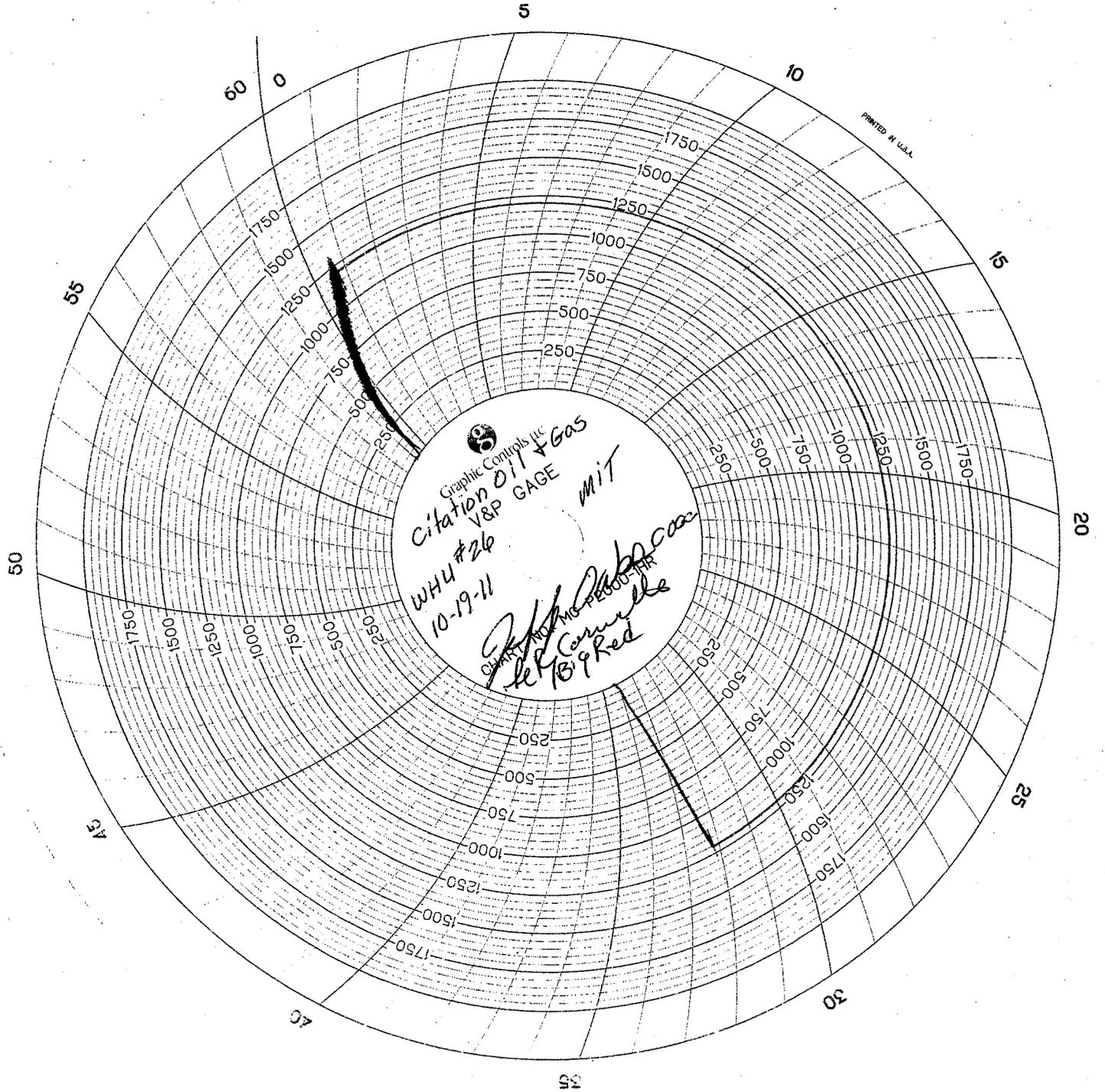
MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Jeff Oaks - COGC
Leroy Carmickle Big Red

30M
TCSM

PRINTED IN U.S.A.



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