

# Water Injection Well

## FILE NOTATIONS

Entered in NID File

Entered On S R Sheet \_\_\_\_\_

Location Map Pinned \_\_\_\_\_

Card Indexed

I W R for State or Fee Land \_\_\_\_\_

Checked by Chief R. Q.

Copy NID to Field Office \_\_\_\_\_

Approval Letter In Unit

Disapproval Letter \_\_\_\_\_

## COMPLETION DATA:

Date Well Completed 11-17-62 Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_ Bond released \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_ State of Fee Land \_\_\_\_\_

WI X

## LOGS FILED

Driller's Log 2-8-63

Electric Logs (No. ) 7

E \_\_\_\_\_ I \_\_\_\_\_ E-I  GR \_\_\_\_\_ GR-N  Micro

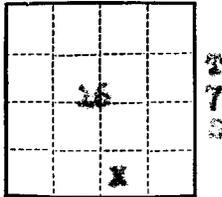
Lat. \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic  Others \_\_\_\_\_

Cement Bond  
Using Fall Log  
Perforating Record

2 sent as different dated logs

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City  
Lease No. U-0559  
Unit Red Wash



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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.....			

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

Vernal, Utah April 18, 1962

Well No. (34-16A) WI 3A is located 600 ft. from 23N line and 1450 ft. from E line of sec. 16  
SW 1/4 SE 1/4 16 7S 23E 31M  
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Red Wash Utah Utah  
 (Field) (County or Subdivision) (State or Territory)

The elevation of the Kelly Rushing ~~ground floor~~ above sea level is 5190 ft. (est.)

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 proposed to drill a well for water injection into the lower Green River sands. 10-3/4" casing to be cemented at approximately 220'. 7" casing to be cemented below lowermost productive sands with sufficient cement to reach above 4000'.

"H" Point - 5086'  
"J" Point - 5558'  
"K" Point - 5706'

Subject well is included in First Half 1962 Plan of Development.

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

Company California Oil Company, Western Division

Address P. O. Box 455

Vernal, Utah

By R. V. PATTERSON  
Checked/Planned By

Title Field Superintendent

WELL NO. WI 3 (34-16A)

PROPERTY: SECTION 16

RED WASH FIELD

## HISTORY OF OIL OR GAS WELL

Kerr-McGee Oil Industries moved in and rigged up. Spudded at 7:00 A. M. 7-3-62. Drilled 15" hole to 235'. Set 10-3/4" casing to 228' w/180 sacks regular cmt. containing 2% calicum chloride. WOC 12 hrs.

July 4, 1962 to July 24, 1962  
Drilled 9" hole to 5590'.

July 25, 1962 to July 26, 1962  
Began cutting core #1 at 5590'.

July 27, 1962  
POOH with core #1 (5590-5678) cut and recovered 88'.  
Began to cut core #2 at 5678'.

July 28, 1962  
Pulled core #2 (5678'-5746') cut and rec. 68'.

July 29, 1962  
Drilled 9" hole to 5766' TD.  
Began running Schlumberger logs.

July 30, 1962  
Finished running Schlumberger IES, Micro-log and Gamma Neutron-Log.  
Ran DST #1 5640'-5668'. 60 min. test NGTS. Rec 50' oil 88' mud and 270' water.  
Pressures IH 2745, ISI 1645, IF 95, FF 205, FSI 1550, FH 2745.

July 31, 1962  
Cemented 7" casing at 5766' w/150' cubic ft. of pozmix and 240 sacks incor cement.

August 1, 1962  
Pickup tubing. Cleaned out to float at 5661'. Released rig at 4:00 A. M.

August 13, 1962  
Moved in J. W. Gibson work over rig to complete well.

August 14, 1962  
Ran Schlumberger Gamma Ray-Neutron and cement bond logs. Ran McCullough casing inspection log.

August 15, 1962  
Ran Dia-Log casing caliper log.

August 16, 1962  
Ran Lane Wells casing potential profile. Ran Lane Wells cement bond log.

August 17, 1962  
Ran Dia-Log casing caliper log. Ran Tubing and released rig.

October 15, 1962  
Moved in R&R work over to complete well. Found surface csg. loose and crooked.

October 16, 1962  
Worked casing over almost straight. Poured 6 yards Redi-Mix concrete around surface casing. Shut down rig for 2 days to allow cement to cure.

WELL NO. WI 3 (34-16A)

PROPERTY: SECTION 16

RED WASH FIELD

October 17 and 18, 1962  
Down WOC

October 19, 1962  
Located collars, cut 8 holes in one plane at 5729, 5706, 5689, 5659, 5647, and 5611.

October 20, 1962  
Ran Straddle packer and acidized all notches w/200-400 gal. acid.

October 21, 1962  
Reversed out sand. POOH w/tbg.

October 22, 1962  
POOH w/tbg. Ran McCullough junk basket. Spotted sand. Set Baker magnesium retainer at 5662'.

October 23, 1962  
Cemented blank 5689-5659 w/40 sacks incor cement, pressured to 3000 psi. Reversed out 6½ Bbl. slurry. Set Baker magnesium retainer at 5614'. Cemented blank 5647-5611 w/40 sacks incor cement. reversed out ½ Bbl. cement colored water.

October 24, 1962  
Set packer at 5400' Cmt. squeezed through slots at 5611 w/100 sack incor cement. Final pressure 3000 psi.

October 25, 1962  
WOC

October 26, 1962  
Drilled out retainer at 5614' and cmt. to 5642'. Started to POOH w/tbg.

October 27, 1962  
Set packer at 5625'; tested blank 5611-47 to 2000 psi differential pressure. Drld. out retainer at 5662'.

October 28, 1962  
Drld. out cement to 5695', set packer at 5672'. Tested blank.

October 29, 1962  
Ran Schlumberger cement bond log, 5734-4000, shot 5-way Jet at 5688'. Set BP at 5695 and pkr. at 5670', acidized slot 5688 with 250 gal. acid.

October 30, 1962  
Shot 5-way Jet at 5658. Set BP at 5642' and pkr. at 5672, tested blank. Acidized slot 5658 with 250 gal. acid. Reset BP 5694 and pkr. at 5672, tested blank.  
POOH w/tbg

October 31, 1962  
Shot 5-way jet at 5648', set BP at 5653' and pkr. at 5630'. Acidized slot with 250 gal. acid. Shot 5-way jet at 5610'.

November 1, 1962  
Set BP 5653 and pkr. at 5630', tested blank. Reset BP at 5630' and pkr. at 5601.  
Acidized slots with 250 gal. acid. Reset BP at 5653 and pkr. at 5630 tested blank.  
POOH w/tbg.

WELL NO. WI 3 (34-16A)

PROPERTY: SECTION 16

RED WASH FIELD

November 2, 1962

Set BP at 5730' and pkr. at 5672', washed perms. 5688, 5706 and 5724, w/5 gal. Halco suds mixed in 2000 gal. H<sub>2</sub>O. Started swabbing back.

November 3, 1962

Swabbed 50 Bbl. water appeared clean. Reset BP at 5672 and pkr. at 5630. Wash perms w/2000 gal. water containing 5 gal/Halco Suds.

November 4, 1962

Swabbed a total of 240 Bbls. water. Resudsed perms. 5658 and 48 w/5 gal Halco Suds in 2000 gal H<sub>2</sub>O.

November 5, 1962

Swabbing. Pumped 2000 gal water containing 5 gal. suds in K sand. Reset BP at 5630' and pkr. at 5600'.

November 6, 1962

Pumped 2000 gal. water containing 5 gal Halco Suds into perms. at 5610'. Started swabbing.

November 7, 1962

Swabbed two hrs. Run McCullough junk basket. Set Model (F) production pkgs. at 5674', 5631', and 5590'.

November 8, 1962

Hydro tested injection string to 5000 psi w/o any leaks.

November 9, 1962

Removed BOPS and installed Xmas Tree. Released rig.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City  
LEASE NUMBER .....  
UNIT Red Wash

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Red Wash

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1962,

Agent's address P. O. Box 455 Company California Oil Co., Western Div  
Vernal, Utah Signed R. W. PATTERSON

Phone Vernal 2000 Agent's title Field Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS 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)
										<p><u>21-21B (173) Continued</u></p> <p>60 min flow, 60 min FSI. NPTS. Rec 390' water. Pressures: IH-2418, ISI-1775, IF-50, FF-196, FSI-1690, FH-2418. Cemented 7" casing at 5831', with 400 sacks regular cement. Cleaned out to 5831'. Ran McCullough Gamma Ray-Collar log. Released rig 7-19-62. Moved in R&amp;R completion rig 7-25-62. Abrasiperfed 3- 60° slots at 5607'. Acidized with 250 gal HF acid. Sand-oil fraced down 7" casing with 8000 gal #5 HF, 6000# sand, 600# aluminum pellets and .05#/gal Adomite. Avg rate 28 BPM w/2550 psi. ISI-1900 psi. Cleaned out to 5831'. Ran production string tubing, pump and rcds. Released rig 7-27-62.</p>
SW SE 16	7S	22E	34-16A (WI-3A)							<p><u>Present Conditions</u></p> <p>Depth: 5766' Flugs: 5733'</p> <p>Casing: 10-3/4", 40.5#, J-55 cmtd at 229' (180 sacks) 7", 23#, J-55 cmtd at 5766' (390 sacks)</p> <p><u>Operations Conducted</u></p> <p>Moved in Kerr-McGee Rig #1 and rigged up same. Spudded 7:00 A.M. 7-3-62. Drld 15" hole to 235'. Cemented 10-3/4" casing at 229' with 180 sacs cmt containing 2% CaCl<sub>2</sub>. Drilled 9" hole to 5590'. Cut Core #1 (5590-5678') and Core #2 (5678-5746'). Drilled 9" hole to 5766'. Ran Schlumberger IES, Micro-Caliper and Gamma Ray-Sonic Logs. DST #1 (5640-5668') 45 min ISI, 60 min flow, 45 min FSI. NPTS. Rec 50' oil and 446/ mud and water. Pressures: IH-2745, ISI-1645, IF-95, FF-205, FSI-1550, FH-2745. Cemented 7" casing at 5766' with 150 cubic feet poxmix and 240 sacks incor cement. Began picking up tubing.</p>

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

LAND OFFICE Salt Lake City  
LEASE NUMBER \_\_\_\_\_  
UNIT Red Wash

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Red Wash  
The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1962,  
Agent's address P. O. Box 455 Company California Oil Co., Western Div.  
Vernal, Utah Signed R. W. PATTERSON  
Phone 789-2442 Agent's title Field Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS 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)
			<u>34-30A (UW-3A)</u>							
			<u>Operations Conducted</u> Finished picking up tubing. Released drilling rig 8-1-62. Moved in workover rig and ran Schlumberger gamma ray-neutron log and cement bond log. Ran McCullough casing inspection log. Ran Dia-Log casing caliper log, and Lane Walls casing potential profile and cement bond log. Released rig 8-17-62.							
SE SE 30	78	23E	<u>34-30B (181)</u>							
			<u>Present Conditions</u> Depth: <u>4089'</u> Casing: <u>10-3/4", 40.5#, J-55 cmtd at 198' (178 sax)</u>							
			<u>Operations Conducted</u> Moved in Kerr-McGee Rig #23 and rigged up. Spudded at 10:00 P.M. 8-22-62. Drilled 15" hole to 230'. Cmtd 10-3/4" casing at 198' with 178 sax cement containing 2% CaCl <sub>2</sub> . Drilled 9" hole to 4089'.							
NE NW 20	78	23E	<u>21-20B (174)</u>							
			<u>Present Conditions</u> Depth: <u>6063'</u> FBTD: <u>5840'</u> Casing: <u>11-3/4", 60#, J-55 cmtd at 211' (167 sax)</u> <u>7", 23#, J-55 cmtd at 5886' (425 sax)</u>							
			<u>Operations Conducted</u> Drilled 9" hole from 3458 to 6063'. Ran Schlumberger IES log and Micro log. DSI #1 (5748-5772') Ran 45 min IEL, 45 min flow, 45 min FSI. NPTS. Rec 2160' muddy water. Pressures: IH - 2872, ISI - 2130, IF - 522, FF - 1115, FSI - 2090, FI - 2872. Ran 7" casing and cmtd at 5886' with 425 sax regular cement. Released rig 8-19-62. Moved in RAN completion rig 8-24-62. Ran Schlumberger CBL and Gamma Ray log. Cut 3 - 60" slots at 5665'. Acidized with 150 gal acid. Fraced down 2-1/2" tubing with 5000 gal #5 BF, 4500#							

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

LAND OFFICE **Salt Lake City**  
LEASE NUMBER  
UNIT **Red Wash**

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Red Wash

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1962.

Agent's address P. O. Box 455 Company California Oil Co., Western Div.  
Vernal, Utah Signed R. W. PATTERSON  
Phone 789-2442 Agent's title Field Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS 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)
<b><u>DRILLING OPERATIONS</u></b>										
<u>SW SE 28</u>	<u>78</u>	<u>22E</u>	<u>34-28A (175)</u>							
<b><u>Present Conditions</u></b>										
Depth: <u>6425'</u> <span style="float: right;">FBED: <u>5800'</u></span>										
Casing: <u>10-3/4", 40.5#, J-55 outd at 199' (170 sacks)</u>										
<u>7", 23#, J-55, outd at 5940' (400 sacks)</u>										
<b><u>Operations Conducted</u></b>										
Moved in Kerr-McGee Rig #1 and rigged up same. Spudded at 6:00 P.M. 8-3-62. Drilled 15" hole to 200'. Outd 10-3/4" casing at 199'. Drilled 9" hole to 6425'. Ran Schlumberger Micro log and IES log. DST #1 (6152-6174') 45 min ISI, 45 min flow, 45 min FRI. NPTS. Rec 375' mud and water. Pressures: IH - 3015, ISI - 2216, IF - 96, FF - 186, FRI - 2142, FH - 3015. DST #2 (5898-5920') 45 min ISI, 45 min flow, 45 min FRI. NPTS. Rec 180' mud and water. Pressures: IH - 2904, ISI - 2152, IF - 36, FF - 92, FRI - 1807, FH - 2904. DST #3 (5834-5856') Ran 45 min ISI, 45 min flow, 45 min FRI. NPTS. Rec 25' gas out oil, 75' oil out mud, 270' muddy water. Pressures: IH - 2804, ISI - 1395, IF - 75, FF - 150, FRI - 1287, FH - 2804. DST #4 (5806-5828') Ran 60 min ISI, 60 min flow, 60 min FRI. OTS in 16 min at 17 MCFD. Rec 3' oil, 57' oil out mud, 370' muddy water. Pressures: IH - 2982, ISI - 1536, IF - 48, FF - 122, FRI - 1506, FH - 2982. DST #5 (5672-5694') Ran 60 min ISI, 60 min flow, 60 min FRI. NPTS. Rec 15' of mud. Pressures: IH - 2773, ISI - 74, IF - 20, FF - 20, FRI - 110, FH - 2773. Outd 7" casing at 5940' with 400 sack cement. Ran McCallough gamma-ray log. Released rig 8-30-62.										
<u>SW SE 16</u>	<u>78</u>	<u>22E</u>	<u>34-16A (WZ-3A)</u>							
<b><u>Present Conditions</u></b>										
Depth: <u>5766'</u> <span style="float: right;">FBED: <u>5733'</u></span>										
Casing: <u>10-3/4", 40.5#, J-55 outd at 222' (180 sack)</u>										
<u>7", 23#, J-55 outd at 5766' (180 sack)</u>										

NOTE.—There were 359,945 bbls. runs or sales of oil; 392,418 M cu. ft. of gas sold; 304,802 gallons runs or sales of gasoline during the month. (Write "no" where applicable.)

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**PLUGS AND ADAPTERS**

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 0 feet to 5766 feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

**DATES**

....., 19..... Put to ~~Production~~ **Injecting Water** **November 13**, 19-**62**

The production for the first 24 hours was ..... barrels of fluid of which .....% was oil; .....% emulsion; .....% water; and .....% sediment. Gravity, °Bé. ....

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

Rock pressure, lbs. per sq. in. ....

**EMPLOYEES**

**W. Woolley** ..... Driller **L. M. Powers** ..... Driller

**R. L. Jewell** ..... Driller ..... Driller

**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
0 2755	2755 5766		Sand & Shale
TGR	2908	(/2216)	
I	4708	(/416)	
H	5018	(/106)	
I	5218	(- 94)	
J	5487	(- 363)	
K	5640	(- 516)	
FROM—	TO—	TOTAL FEET	FORMATION

Tom Tixia ✓

10/19/82

Cherwon, Ariz. → P&A PROGRAM ✓

303, 691-7002

RWH WI#3A (3A-16A) ✓

SEC 16, T7S, R22E  
Uintah Co., Utah.



7" = 4.5 SKS  
4.5 SKS  
4.5 SKS

10 3/4" 40.5# @ 228' Cont'd surface ✓

TC 290

Cont. return @ 290' →  
perforated 3000' squeeze  
w/ 35 SKS:

9" x 7" = 60 inches  
hole csg  
57306 ft³  
22  
28

TOC  
3770' behind 7" csg.

5734'  
5500'  
234'  
2210



5475' POTD

51.71 →  
4.5  
5  
22.5

5490

Cont. return @ 5500' ✓  
squeeze w/ 60 SKS ✓  
7" 23# =

4.5249 ft³  
2210 ft³/ft.

5631

5610'

5674

5648'

5658'

5

5688'

5706'

5724'

5734'

5661' 7" 23# @ 5766' Cont'd 390 SKS.

→ P&A: Program

10/14/82

1. Cement Retainer @ 5500'  
Squeeze w/ 60 SKs.
2. Cement Retainer @ 2900'  
Squeeze thru perforations @ 3000'  
w/ 35 SKs.
3. 10 SKs @ Surface w/ marker

RED WASH  
RWU #3-A (34-16A)

Workover Procedure:

1. Shut well in and observe shut-in pressures.
2. Kill well w/ required fluids. (Clean fluids not required.)
3. POOH w/ tbg and seal assemblies.
4. C/o to top pkr @ 5590'. POOH. Pump down csg to make sure pkrs & perms are open.
5. RIH & set cmt retainer @  $\pm$  5500'. Sting into retainer & squeeze perms 5610-5729 w/ at least 75 sx cmt (leave 5 sx on top of rtnr).
6. Pump down casing & pressure test to 500 psi. If casing holds, proceed to step 7. If casing leaks, RIH w/ pkr and find leak (s). Notify Denver.
7. Perforate the following interval w/ 4" csg gun @ 4 shots/ft. Depths picked from Schlumberger IES (07/29/62).  

2950-52	<i>w/ 6" cmt</i>	2 ft	8 shots
---------	------------------	------	---------
8. Pump down csg into perms 2950-52. Do not exceed 500 psi. If we pump into the perms, RIH w/ a cmt retainer & set @ 2930'. If we can't pump into perms 2950-52, RIH w/ pkr and RBP. Isolate & break down perms 2950-52. Keep pressure as low as possible. (According to the Schlumberger Bond log (08/14/62), cement top @  $\pm$  3770).
9. RIH and set cement retainer @  $\pm$  2930'. Sting into retainer and squeeze perms 2950-52 w/ at least 35 sx cmt - leave 5 sx on top of rtnr.
10. Pressure csg & cmt retainer to 500 psi.
11. Set 10 sx cmt @ surface w/ a 4" pipe, 4' above ground and orange peeled on top. A steel plate should be welded on the 4" pipe w/ the following on it:

Chevron U.S.A. Inc.  
Red Wash WI 3-A (34-16A)  
Sec 16, T7S, Range 22E, SW $\frac{1}{2}$ , SE $\frac{1}{2}$ , 500 FSL,  
1450 FEL  
Uintah County, Utah

RED WASH  
RWU #3-A (34-16A)  
CRD2-2987  
October 21, 1982

Workover Justification:

RWU No. 3A is one of three injection wells that must be corrected because UIC does not permit annulus injection. We propose (as per attached memo) to P&A RWU #3-A (34-16A) and convert RWU #55 (41-21A).

This job only pertains to plugging and abandoning RWU No. 3-A. A future job will convert RWU #55 into an injector.

Location

SW $\frac{1}{4}$  SE $\frac{1}{4}$ , 500' FSL, 1450' FEL, Sec. 16, T7S, R22E, Uintah County, Utah  
KB=5124, GL=5111.4, TD=5766, PBTD=5695

Casing Detail

Baker Guide Shoe	1.20
1 jt 7", 23 #, J-55 SMLS CF&I csg	30.90
Baker Flexiflo Differential Fillup Collar	1.40
177 jts 7", 23# J-55 SMLS CF&I csg	<u>5748.94</u>
Total csg ran	5782.44
Csg above KB	- 16.44
Csg Landed @	<u>5766.00</u>

Tubing Detail

KB	13.00
BWH	.50
2-7/8" pup jt	4.06
177 jts 2-7/8, 6.5#, J-55 tbg	5544.20
2-7/8 pup jt	2.21
2-7/8 pup jt	6.22
Baker Safety Jt (RHR)	.90
Baker Locator Sub	.60
Baker Model "E" Seal Assembly (Top @ 5581.73')	1.40
2-7/8 pup jt	10.10
"	10.05
"	4.06
"	10.09
"	6.16
Baker Model "E" Seal Assembly (Top @ 5623.59')	14.24
2-7/8 pup jt	2.02
"	10.03
"	4.17
"	10.10
Otis Type "S" landing nipple w/ 4-1/2" ports	2.30
Baker Model E Seal Assembly (Top @ 5666.45')	14.35
1 jt 2-7/8 tbg	31.85
2-7/8 collar & bull plug	.75
	<u>5713.40</u>

RED WASH  
RWU #3-A (34-16A)  
CRD2-2987  
October 21, 1982  
Page 2

Tubing Detail: (continued)

Model F Packers are located @ 5590, 5631, & 5674.  
Seals are not run thru top packer to allow annulus injection.

History:

Initial Completion (11-9-62)

Perfs: 8 abrasive jet holes @ 5611, 5647, 5659, 5689, 5706, 5729  
5 way jets @ 5610, 5648, 5658, 5688

Squeezed off 5611, 5647, 5659, 5689

Acidized perfs 5610 J<sub>E</sub>, 5648 K, 5658 K, 5688 K<sub>A</sub>, 5729 K<sub>AC</sub>

Workover (7-31-65)

Redistribute injection profile - change seals on seal assembly

Injection Before: 2030 BPD @ 1740 psi

Injection after: 1825 BPD @ 1700 psi

Workover (8/25/73)

Revamp production string to allow annulus injection thru top packer.

Removed top ported nipple, sliding sleeve from string and 13.11' of the top seal assembly. Redressed the two bottom seal assemblies. Ran string back into hole.

Top seal assembly is not in top pkr to allow annulus injection.

Injection Before: 1371 BPD @ 1625 psi (09/73)

Injection After: Tbg 864 BPD @ 1550 psi (09/73)

Annulus 576 BPD @ 1600 psi

Open Perfs: 8 Abrasijets @ 5706 K<sub>AC</sub>  
5729 K<sub>AC</sub>

5 Way Jets @ 5610 J<sub>E</sub>  
5648 K  
5658 K  
5688 K<sub>A</sub>

Excluded perfs squeezed abrasijets @ 5611  
5647  
5659  
5689

RED WASH  
RWU #3-A (34-16A)  
CRD2-2987  
October 21, 1982  
Page 3

Workover Procedure:

1. Shut well in and observe shut-in pressures.
2. Kill well w/ required fluids. (Clean fluids not required.)
3. POOH w/ tbg and seal assemblies.
4. C/o to top pkr @ 5590'. POOH. Pump down csg to make sure pkrs & perms are open.
5. RIH & set cmt retainer @  $\pm$  5500'. Sting into retainer & squeeze perms 5610-5729 w/ at least 75 sx cmt (leave 5 sx on top of rtnr).
6. Pump down casing & pressure test to 500 psi. If casing holds, proceed to step 7. If casing leaks, RIH w/ pkr and find leak (s). Notify Denver.
7. Perforate the following interval w/ 4" csg gun @ 4 shots/ft.: Depths picked from Schlumberger IES (07/29/62).

2950-52	2 ft	8 shots
---------	------	---------
8. Pump down csg into perms 2950-52. Do not exceed 500 psi. If we pump into the perms, RIH w/ a cmt retainer & set @ 2930'. If we can't pump into perms 2950-52, RIH w/ pkr and RBP. Isolate & break down perms 2950-52. Keep pressure as low as possible. (According to the Schlumberger Bond log (08/14/62), cement top @  $\pm$  3770).
9. RIH and set cement retainer @  $\pm$  2930'. Sting into retainer and squeeze perms 2950-52 w/ at least 35 sx cmt - leave 5 sx on top of rtnr.
10. Pressure csg & cmt retainer to 500 psi.
11. Set 10 sx cmt @ surface w/ a 4" pipe, 4' above ground and orange peeled on top. A steel plate should be welded on the 4" pipe w/ the following on it:

Chevron U.S.A. Inc.  
Red Wash WI 3-A (34-16A)  
Sec 16, T7S, Range 22E, SW $\frac{1}{2}$ , SE $\frac{1}{2}$ , 500 FSL,  
1450 FEL  
Uintah County, Utah



CALCULATION SHEET  
Chevron U.S.A. Inc.

Date

Prepared by

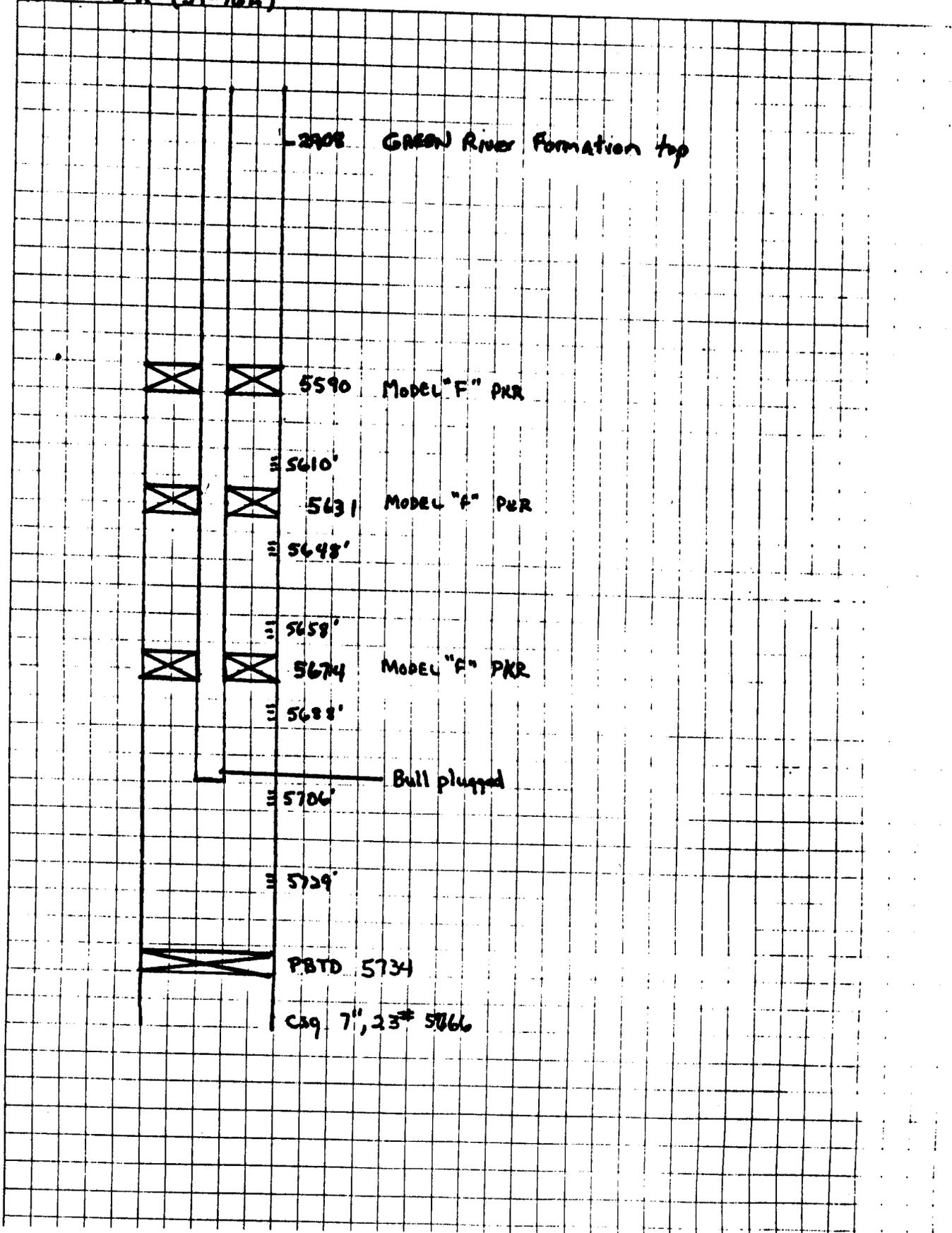
Title

Location

Department

Project Name

RW # 3-A (34-16A)



*Ron*  
*Sil*  
*Shadia*

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 Injector

2. NAME OF OPERATOR  
Chevron U.S.A. Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 599, Denver, CO. 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 500' FSL & 1450' FEL SWSE  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Red Wash

8. FARM OR LEASE NAME

9. WELL NO.  
3-A (34-16A)

10. FIELD OR WILDCAT NAME  
Red Wash

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 16, T7S, R22E

12. COUNTY OR PARISH Uintah 13. STATE UT

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5111.4'

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

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input 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) <u>plug and Abandon</u>	

(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.)\*

RWU 3-A(34-16A) is a water injection well that must be corrected because UIC regulations do not permit annulus injection on water injection wells. We propose to plug and abandon this well per attached procedure.

**RECEIVED**  
NOV 18 1982

- 3-MMS
- 2-State
- 3-Partners
- 1-Fld Foreman ✓
- 1-Sec 723
- 1-File

DIVISION OF  
OIL, GAS & MINING

No additional surface  
disturbances required  
for this activity.

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

DATE: 11/12/82  
BY: [Signature]

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

18. I hereby certify that the foregoing is true and correct  
SIGNED Arlene F. Busch TITLE Engineering Asst DATE November 12, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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

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

December 3, 1985

Chevron U.S.A., Incorporated  
P.O. Box 599  
Denver, Colorado 80201

Gentlemen:

RE: Well No. 3A(34-16A), Section 16, Township 7 South, Range 22  
East, Red Wash Field, Uintah County, Utah

On December 2, 1982, approval was granted to plug and abandoned the above mentioned well.

Please advise this Division as to the status of said well and if it has been plugged and abandoned, we would appreciate a copy of the "Well Completion" forms filed with the USGS.

Thank you,

  
Cleon B. Feight  
UIC Manager

mfp  
0009U-32

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(Other instructions  
reverse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME

OIL WELL  GAS WELL  OTHER Water Injection

2. NAME OF OPERATOR  
Chevron U.S.A. Inc.

DEC 30 1985

3. ADDRESS OF OPERATOR  
P. O. Box 599, Denver, Colorado 80201

DIVISION OF OIL  
GAS & MINING

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

500' FSL & 1450' FEL SWSE

14. PERMIT NO.  
43-047-1608

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5111.4' GR

8. FARM OR LEASE NAME  
Red Wash

9. WELL NO.  
3-A (34-16A)

10. FIELD AND POOL, OR WILDCAT  
Red Wash

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA  
Sec 16 T7S R22E

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:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)   
PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

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

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

MIRU Western Rig #16 on 12/14/82. POH w/production equipment to 5611'. Unable to fish out packer. TIH w/cement retainer to 5495'. Squeezed 145 sks cement below retainer spot 5 sks on top. Perf'd 2950-52'. Set cement retainer @ 2924'. Squeezed 45 sks below retainer, spot 5 sks on top. Spot 10 sks cement from 30' to surface. Cut off well head. RD. Well P&A'd on 12/31/82.

- 3 - BLM
- 3 - STATE
- 1 - BJK
- 1 - RKW
- 1 - SEC 724-C
- 1 - LJT
- 1 - LLK
- 3 - GHW

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

SIGNED *J. J. Warner*

TITLE Drilling Engineer

DATE December 26, 1985

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

**RECEIVED**

FEB 07 2000

DIVISION OF  
OIL, GAS AND MINING

IN REPLY REFER TO  
UT-931

February 4, 2000

Shenandoah Energy Inc.  
Attn: Rae Cusimano  
475 17<sup>th</sup> Street, Suite 1000  
Denver, Colorado 80202

Re: Red Wash Unit  
Uintah County, Utah

Gentlemen:

On December 30, 1999, we received an indenture whereby Chevron U.S.A. Inc. resigned as Unit Operator and Shenandoah Energy Inc. was designated as Successor Unit Operator for the Red Wash 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 February 4, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Red Wash Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Red Wash 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

cc: Chevron U.S.A. Inc.

bcc: Field Manager - Vernal (w/enclosure)  
**DIVISION OF OIL, GAS & MINING**  
Minerals Adjudication Group U-932  
File - Red Wash Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

UT931:TAThompson:tt:2/4/00

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: See Attachment

Field or Unit name: \_\_\_\_\_ API no. \_\_\_\_\_

Well location: QQ \_\_\_\_\_ section \_\_\_\_\_ township \_\_\_\_\_ range \_\_\_\_\_ county \_\_\_\_\_

Effective Date of Transfer: \_\_\_\_\_

CURRENT OPERATOR

Transfer approved by:

Name R.K. Wackowski Company Chevron Production Co.  
Signature [Signature] Address 100 Chevron Rd.  
Title Unit Manager Rangely, Colo. 81648  
Date 7/28/00 Phone (970) 675-3714

Comments:

NEW OPERATOR

Transfer approved by:

Name John Conley Company Shenandoah Energy Inc.  
Signature [Signature] Address 11002 E. 17500 S.  
Title District Manager Vernal, UT 84078  
Date 7-21-00 Phone (435) 781-4300

Comments:

(State use only)

Transfer approved by [Signature] Title Tech. Services Manager  
Approval Date 8-24-00

RECEIVED

AUG 9 2000

DIVISION OF

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH		4-KAS ✓
2. CDW ✓		5- <del>SD</del> ✓
3. JLT		6-FILE

Enter date after each listed item is completed

**X Change of Operator (Well Sold)**

Designation of Agent

Operator Name Change (Only)

Merger

The operator of the well(s) listed below has changed, effective:

01-01-2000

**FROM: (Old Operator):**

CHEVRON USA INC  
 Address: 11002 E. 17500 S.  
 VERNAL, UT 84078-8526  
 Phone: 1-(435)-781-4300  
 Account No. N0210

**TO: ( New Operator):**

SHENANDOAH ENERGY INC  
 Address: 11002 E. 17500 S.  
 VERNAL, UT 84078  
 Phone: 1-(435)-781-4300  
 Account N4235

**CA No.**

**Unit: RED WASH**

**WELL(S)**

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
RWU 54 (43-14A)	43-047-15180	5670	14-07S-22E	FEDERAL	OW	PA
RWU 113 (34-15A)	43-047-15231	5670	15-07S-22E	FEDERAL	OW	PA
RWU 89 (23-15A)	43-047-16486	99998	15-07S-22E	FEDERAL	OW	PA
RWU WI 3A (34-16A)	43-047-16481	99996	16-07S-22E	FEDERAL	WI	PA
RWU 100 (43-21A)	43-047-10203	99998	21-07S-22E	FEDERAL	OW	PA
RWU 73 (22-21A)	43-047-15195	5670	21-07S-22E	FEDERAL	OW	PA
RWU 32 (32-22A)	43-047-15159	5670	22-07S-22E	FEDERAL	GW	PA
RWU 258 (34-22A)	43-047-30458	5670	22-07S-22E	FEDERAL	OW	TA
RWU 118 (12-23A)	43-047-15235	99998	23-07S-22E	FEDERAL	OW	PA
RWU 217 (31-29A)	43-047-30105	99998	29-07S-22E	FEDERAL	OW	PA
RWU WI 33A-1	43-047-16484	99998	33-07S-22E	FEDERAL	WI	PA
RWU 151 (42-14B)	43-047-15264	5670	14-07S-23E	FEDERAL	OW	P
RWU 325 (32-16B)	43-047-33083	99999	16-07S-23E	STATE	OW	APD
RWU 329 (32-20B)	43-047-33225	99999	20-07S-23E	FEDERAL	OW	APD
RWU 328 (12-21B)	43-047-33224	99999	21-07S-23E	FEDERAL	OW	APD
RWU 200 (32-33B)	43-047-10207	99998	33-07S-23E	FEDERAL	OW	PA
RWU 249 (14-33C)	43-047-30390	5670	33-07S-24E	FEDERAL	GW	PA
RWU 211 (32-35C)	43-047-10209	99998	35-07S-24E	FEDERAL	OW	PA
RWU 304 (24-2F)	43-047-32106	11341	02-08S-24E	STATE	GW	PA

**OPERATOR CHANGES DOCUMENTATION**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12-30-1999
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 08-09-2000

3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 08-23-2000
4. Is the new operator registered in the State of Utah: YES Business Number: 224885
5. If **NO**, the operator was contacted on: \_\_\_\_\_
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 02/04/2000
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 02/04/2000
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Pro:** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 09/26/2000
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 09/26/2000
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

**STATE BOND VERIFICATION:**

1. State well(s) covered by Bond No.: \_\_\_\_\_

**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:

**FILMING:**

1. All attachments to this form have been **MICROFILMED** on: 03-09-01

**FILING:**

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: \_\_\_\_\_

**COMMENTS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_