Scout Report sent out	☑
Noted in the NID File	☑
Location map pinned	☑
Approval or Disapproval Letter	☐ IN UNIT
Date Completed, P. & A. or operations suspended (GW)	11-3-56
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 N I D File	✓	Checked by Chief	✓
Entered On S R Sheet	✓	Copy N I D to Field Office	✓
Location Map Pinned	✓	Approval Letter	✓
Card Indexed	✓	Disapproval Letter	
I W R for State or Fee Land			

COMPLETION DATA:

Date Well Completed 10/24/56 Location Inspected

OW ___ WW ___ TA ___ Bond released

GW ✓ OS ___ PA ___ State of Fee Land

LOGS FILED

Driller's Log 6/14/57

Electric Logs (No.) 3

E 2 I ___ E-1 ___ GR ___ GR-N ___ Micro 2

Lat ___ Mi-L ___ Sonic ___ Others (McCullough {Radiation Log})

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

(*SUBMIT IN TRIPLICATE*)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office [redacted]
Lease No. [redacted]
Unit [redacted]

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	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)

(51) [redacted], 19[redacted]

Well No. [redacted] (52) is located [redacted] ft. from {N/S} line and [redacted] ft. from {E/W} line of sec. [redacted]
12-16 e

[redacted] (¼ Sec. and Sec. No.) [redacted] (Twp.) [redacted] (Range) [redacted] (Meridian)

[redacted] (Field) [redacted] (County or Subdivision) [redacted] (State or Territory)

The elevation of the [redacted] above sea level is [redacted] ft. [redacted]

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)

[redacted]

[redacted]

[redacted]

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

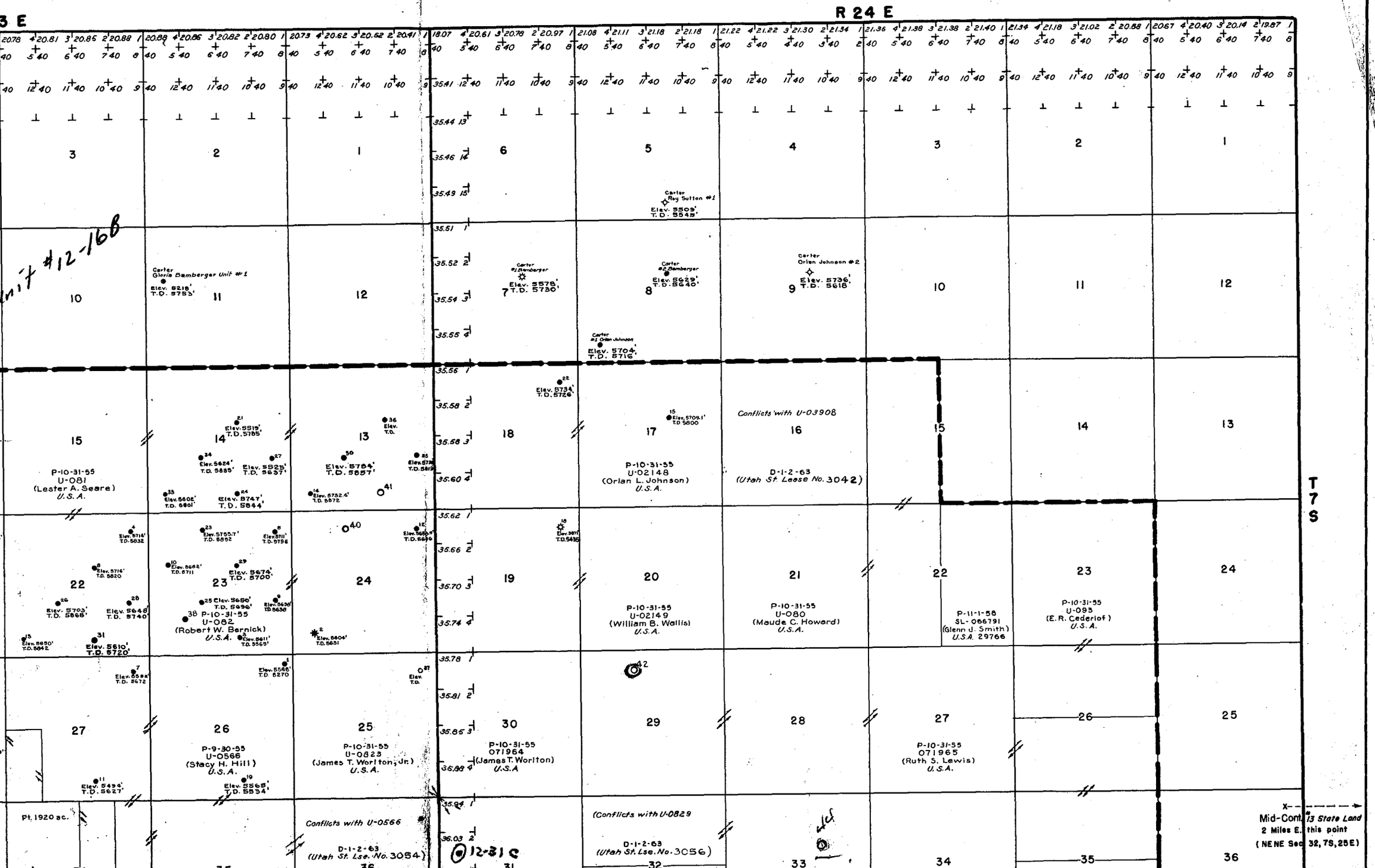
Company [redacted]

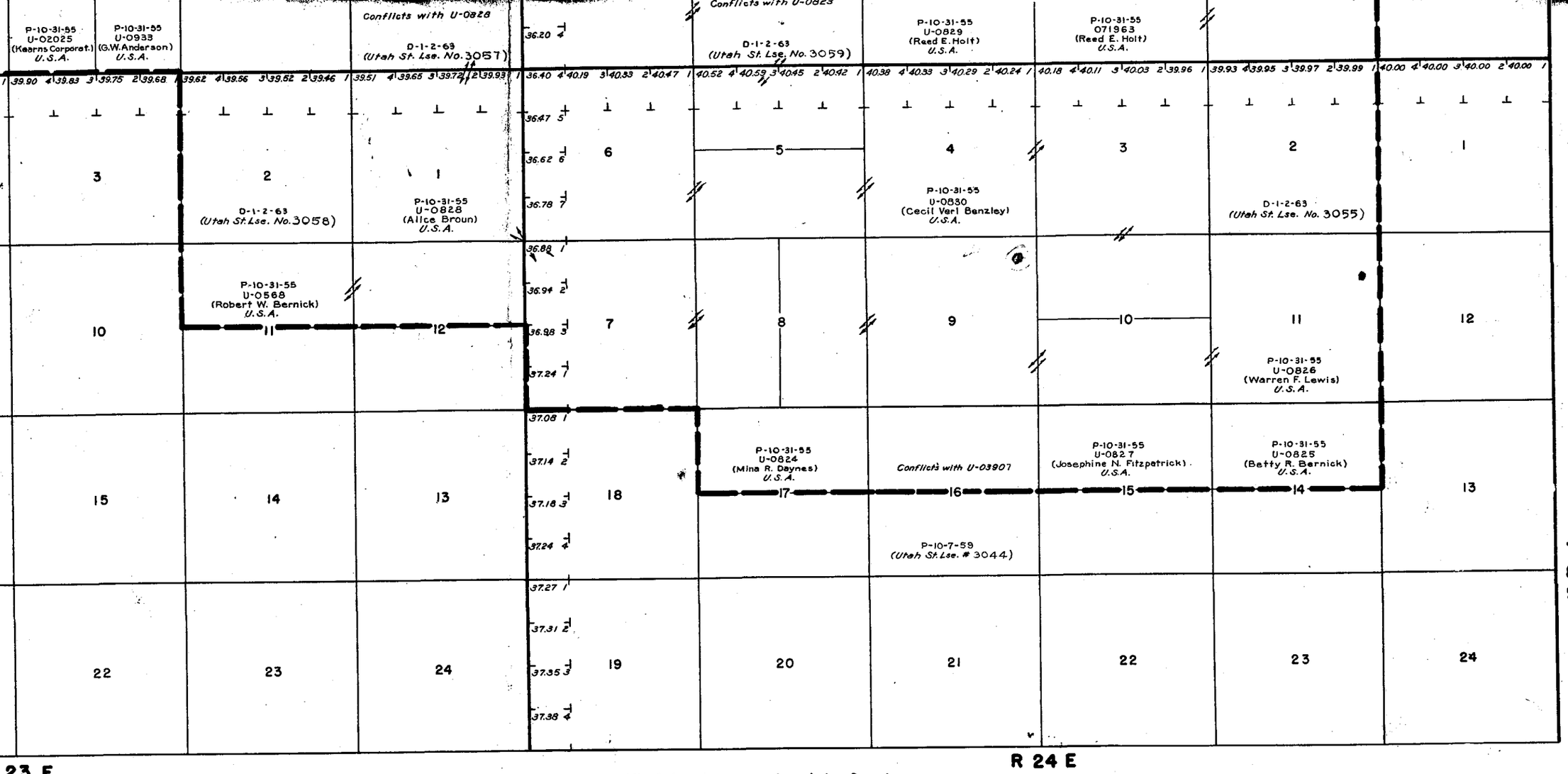
Address [redacted]

[redacted] By [redacted]

Title [redacted]

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5


R 24 E
T 7 S
Carter Ray Sutton #1
Elev. 5505'
T.D. 5545'
Carter Orlan Johnson #2
Elev. 5736'
T.D. 5618'
Carter Gloria Bamberger Unit #1
Elev. 5218'
T.D. 5753'
Carter #1 Bamberger
Elev. 5578'
T.D. 5730'
Carter #2 Bamberger
Elev. 5629'
T.D. 5640'
Carter #1 Orlan Johnson
Elev. 5704'
T.D. 5716'
Elev. 5734'
T.D. 5726'
Elev. 5709.1'
T.D. 5800
Conflicts with U-03908
P-10-31-55
U-081
(Lester A. Seare)
U.S.A.
P-10-31-55
U-02148
(Orlan L. Johnson)
U.S.A.
D-1-2-63
(Utah St. Lease No. 3042)
P-10-31-55
U-02149
(William B. Wallis)
U.S.A.
P-10-31-55
U-080
(Maude C. Howard)
U.S.A.
P-11-1-58
SL-066791
(Glenn J. Smith)
U.S.A. 29766
P-10-31-55
U-093
(E.R. Cederlof)
U.S.A.
P-10-31-55
U-082
(Robert W. Bernick)
U.S.A.
P-9-30-55
U-0566
(Stacy H. Hill)
U.S.A.
P-10-31-55
U-0823
(James T. Worlton, Jr.)
U.S.A.
P-10-31-55
071964
(James T. Worlton)
U.S.A
P-10-31-55
071965
(Ruth S. Lewis)
U.S.A.
Pt. 1920 ac.
Conflicts with U-0566
D-1-2-63
(Utah St. Lse. No. 3054)
(Conflicts with U-0829
D-1-2-63
(Utah St. Lse. No. 3056)
12-31 C
Mid-Cont. 13 State Land
2 Miles E. this point
(NENE Sec 32, 7S, 25E)



NOTE - All Calco. leases assigned to Socal.

REVISIONS	THE CALIFORNIA COMPANY
	RED WASH FIELD UINTAH COUNTY UTAH LEASE MAP

Redrawn 6-12-53

SCALE	DATE	MAP NO.	FILE NO.
1"=4000'	12-7-49	DI-6310-B1	B-2978

R 22 E

R

T 7 S

Calco So. Horseshoe Bend # 1

Conflicts with U-0562

D-1-2-63
(Utah St. Lse. No. 3076)

Conflicts with U-0559

D-1-2-63
(Utah St. Lse. No. 3035)

P-10-31-55
U-0562
(Paul D. Schettler)
U.S.A.

P-10-31-55
U-0569
(M.J. Bronson)
U.S.A.

Pt. 640 ac.

Buttram
S.L. 066446

Gulf
S.L. 066446-A

P-10-31-55
U-0559
(A. P. Cederlof)
U.S.A.

P-10-31-55
U-0560
(Edward M. Bown)
U.S.A.

P-10-31-55
U-0558
(Cecil Verl Benzley)
U.S.A.

P-10-31-55
U-0561
(J.N. Pike)
U.S.A

Conflicts with U-0561

P-2-28-58
Opt. exp. 3-1-53
U-0671
(W.M. Richtman)
U.S.A.

P-10-31-55
U-0116
(M.J. Bronson)
U.S.A.

D-1-2-63
(Utah St. Lease No. 3037

Pt. 640 ac.

P-10-31-55
U-0569
(M.J. Bronson)
U.S.A.

P-10-31-55
U-02030
(Peter Freed)
U.S.A.

P-10-31-55
U-0567
(Wendell M. Smoot)
U.S.A.

Pt. 1920 ac.

P-10-31-55
U-02025
(Kearns Corporation)
U.S.A.

Conflicts with U-02025

RW

P-10-31-55
U-0571
(Lynn S. Richards)
U.S.A.

P-10-31-55
U-0570
(Vervene Carlisle)
U.S.A.

D-1-2-63
(Utah St. Lse. No. 3074)

D-1-2-63
(Utah St. Lease No. 3064)

P-10-31-55
U-02060
(Edward P. Taylor)
U.S.A.

Opt. exp. 1-30-55

Conflicts with St. Lse. No 3060

Conflicts with St. Lse. No. 3060

P-10-31-55 U-0572
(Blair Richardson) U.S.A.

Conflicts with 071978

Opt. exp. 1-2-55
P-12-31-55
071978
(Vervene Carlisle)
U.S.A.

D-11-1-55
U-02510
(Vervene Carlisle)
U.S.A.

D-1-2-63
(Utah St. Lse. No. 3060)

SHELL
33-4 Go
Elev. 538
TD 614

App. U-073
Allison Pierce

(Utah St. Lse. # 78) 3038

P-10-7-59
(Utah St. Lse. No. 88) 3069

T 8 S

R 22 E

R

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

Land Office Salt Lake City
Lease No. State
Unit Red Wash

(SUBMIT IN TRIPLICATE)

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	X	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 July 7, 1956

Well No. (#51) 12-16 is located 1980 ft. from {N/S} line and 700 ft. from {E/W} line of sec. 16

SW NW (¼ Sec. and Sec. No.) 7 S (Twp.) 21 E (Range) SLM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5350 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)

Due to running into excessive rock work and to provide a more solid foundation for our operation we request permission to move this location 700' from the west line of Sec. 16 instead of 735' as shown on original "Notice of Intention to Drill".

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

Company The California Company

Address P. O. Box 165

Vernal, Utah

By [signature]

Title Area Engr.

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

(*SUBMIT IN TRIPLICATE*)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. State
Unit Red Wash

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		Subsequent Report of Running 10 3/4" Casing	X

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

Vernal, Utah August 27, 1956

Well No. (#51) 12-16B is located 1980 ft. from {N/S} line and 73[illegible] ft. from {E/W} line of sec. 16

NE NW 16 (¼ Sec. and Sec. No.) 7 S (Twp.) 21 E (Range) SLBM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5296.1 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 10 jts. 10 3/4, 40.5#/ft., J-55, 8 rd thd csg. to 399.67. Ran Baker Guide Shoe and Float Collar one jt. apart (42.76'). Welded top of Float collar and all jts. below. Ran 3 ctr. bow latch on centr lizers one above F.S., one above F.C. and one on csg. collar above F.C. Cemented with 245 sx common cmt. Cement r turned to surface. Cemented with 2 plugs (Halliburton process).

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

Company The California Company

Address P. O. Box 495

Vernal, Utah

By R. L. Merry

Title Area Supt.

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

x			
	16		

(*SUBMIT IN TRIPLICATE*)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. State
Unit Red Wash

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		Subsequent Report of DST #1	X

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

Vernal, Utah September 3, 1956

Well No. (#51) 12-16A is located 1980 ft. from {N/S} line and 735 ft. from {E/W} line of sec. 16

SE NW 16 (¼ Sec. and Sec. No.) 7 S (Twp.) 23 E (Range) SLBM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5274.6 ft. GR.

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 #1 - Interval 4458 - 4501. Halliburton straddle test w/anchor to bottom. Chrs at 4478, 4484 and 4501. Tool opened w/weak blow, incr to good in 10 min. Gas to surface in 26 min. Est. approx. 50 MCF. Tool open 1½ hrs. SI 30 min. Recovered: 645' mud-cut wtr and 1980' clear water

	IHH	IF	FF	SIP	FHH	
Top DT	2240	20	1210	2240	2240	
Middle DT	2245	20	1205	2240	2260	
RHC	2380	-	-	-	1980	Max. salinity - 800 ppm Cl

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

Company The California Company

Address P. O. Box 455

Vernal, Utah

By P. L. Berry

Title Area Sup't.

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

X	16		

(*SUBMIT IN TRIPLICATE*)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. State
Unit Red Wash

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		Subsequent Report of DST #2	X

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

Vernal, Utah September 9, 1956

Well No. 12-16B (#51) is located 1980 ft. from {N/S} line and 735 ft. from {E/W} line of sec. 16

SW NW 16 (¼ Sec. and Sec. No.) 7 S (Twp.) 23 E (Range) SLBM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5274.6 ftar.

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 #2 - Interval 4750 - 4772. Johnston straddle test. No BC or BB. Tool opened w/weak blow, increased to fair in 5 min. & decreased to weak at end of test. Tool open 2 hrs. Closed ½ hr.
Recovered: 45' blk, hi pour point oil, 90' sl water & oil cut mud and 270' sl mud cut water, tr oil.

	IP	IF	FP	SI	FH
Top PKR	2390	90	180	1450	2390
Middle PKR	2390	90	175	1460	2390
Bottom PKR	2390	-	-	-	2375

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

Company The California Company

Address P. O. Box 455

Vernal, Utah

By P. L. Berry

Title Area Supt.

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

X	16		

(*SUBMIT IN TRIPLICATE*)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. State
Unit Red Wash

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		Subsequent Report of DST #3	X

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

Vernal, Utah September 13, 19 56

Well No. (#51) 12-16B is located 1960 ft. from {N/S} line and 735 ft. from {E/W} line of sec. 16

SW NW 16 (¼ Sec. and Sec. No.) T 5 S (Twp.) R 23 E (Range) SLBM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5274.6 ft. Gr.

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 #3 - Interval 4327 - 4847. Halliburton straddle test w/pkrs set @ 4322, 4327 and 4847. Bottom hole anchor in 9" hole. No BC or BHC. Tool open w/faint blow, dead in 1 hr. Tool open 1 hr. Closed ½ hr.
Recovered: 5' blk hi pour point oil, 15' mud

	DR	DP	FF	SI	FH
Top MT	2355	25	48	245	2360
Middle MT	2493	40	52	230	2468
Bottom PMD	2580	-	-	-	2220

Salinity - 240 ppm

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

Company The California Company

Address P. O. Box 455

Vernal, Utah

By F. L. Harry

Title Area Supt.

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. State
Unit Red Wash

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		Subsequent Report of DST #4	X

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

Vernal, Utah September 24, 1954

Well No. (#1) 12-16A is located 1980 ft. from {N/S} line and 710 ft. from {E/W} line of sec. 16

SW NE 16 (¼ Sec. and Sec. No.) 7 S (Twp.) 23 E (Range) SLBM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5274.6 ft. Gr.

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 #4 - Set 8" packers @ 5332, 5337 and 5342 to test interval 5337 - 5342. No BH or BC. Tool opened with faint blow becoming intermittent with faint blow for first hour, gradually increasing to weak blow (4"H2O) at end of test. Tool open 3 hrs., SI 30 min. No gas to surface. Recovered 10' high pour point oil and 50' oil cut rat hole mud (est. 20% oil). Mud salinity 300 ppm. Gas in excess of 350 units.

	IH	IF	FF	FH
Top BT	15	40	255	2573
Middle BT	25	62	245	2585
BHT	Clock stopped when tool opened			

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

Company The California Company

Address P. O. Box 455

Vernal, Utah

By R. L. Berry

Title Area Supt.

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

Land Office Salt Lake City

Lease No. State

Unit Red Wash

(SUBMIT IN TRIPLICATE)

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		Subsequent Report of DST #5	X

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

Vernal, Utah September 26, 1956

Well No. (#51) 12-16 is located 1980 ft. from {N/S} line and 735 ft. from {E/W} line of sec. 16

SW NW 16 (¼ Sec. and Sec. No.) 7 S (Twp.) 23 E (Range) SLBM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5274.6 ft. GR.

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 #5 - 5410 to 5435. [illegible] straddle test with packers set @ 5410, 5415 and 5435 in 9⅝" hole. Took well anchor. No [illegible] or [illegible]. Tool set originally 5' on the hole - no seat. Landed approx. 200'. Tool opened with fair blow reversing steady to end. Gas to surface in 15 min. [illegible]. Tool open 1½ hrs., closed ½ hr. Recovered 180' drilling mud, gas cut; 1505' hd pour pt oil, gas cut.

	IH	IF	FF	SI	FH
Top HT	2690	175	490	1965	2690
Middle HT	2720	215	490	2005	2700
Bottom PRD	Clock failed.				

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

Company The California Company

Address P. O. Box 455

Vernal, Utah

By F. L. Berry

Title Area Sup't.

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

X			
		16	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. State
Unit Red Wash

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		Subsequent Report of DST #6	X

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

Vernal, Utah October 6, 1956

Well No. 22-16 (#51) is located 1980 ft. from {N/S} line and 735 ft. from {E/W} line of sec. 16

SE NW 16 (¼ Sec. and Sec. No.) 7 S (Twp.) 23 E (Range) SLBM (Meridian)

Red Wash (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5274.6 ft. GR.

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 - 4794 to 4812. 4800 straddle test. Took wall anchor in 9" hole. No BC or TC. Tool opened with faint blow. Dead in 40 min. Tool open 3 hrs., closed ½ hr. Recovered 105' water cut mud.

	IH	IF	FF	SI	FH
Top PH	2525	40	50	180	2525
Middle BH	2510	50	70	-	2510
Bottom PH	2580	-	-	-	2365

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

Company The California Company

Address P. O. Box 455

Vernal, Utah

By J. L. Merry

Title Area Supt.

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

"In lieu of Form 9-330"

5

COMPLETION REPORT — NEW WELL

STANDARD OIL COMPANY OF CALIFORNIA

FIELD: Red Wash

PROPERTY: Section 16B

WELL NO: 12-16B (#51)

Sec. 16 T. 7 S R. 23 E SL B. & M.

LAND OFFICE: Salt Lake City

LEASE NO. : State

LOCATION: 1980' from N line & 735' from W line of Sec. 16

ELEVATION: 5287.30 K.B.

K.B. is 12.70' above mat.

DATE: February 14, 1957

By J. T. CROKER
Manager, Producing Department

DRILLED BY: Kerr-McGee Oil Industries

DATE COMMENCED DRILLING: August 18, 1956

DATE COMPLETED DRILLING: October 24, 1956

DATE OF INITIAL PRODUCTION: December 4, 1956

PRODUCTION:

Daily average, 1st	30	days	Gravity	28.0	° API	Pumping	X
Oil	43	Bbls.	T. P.	310	PSI	Flowing	
Water	2	Bbls.	C. P.	220	PSI	Gas Lift	
Gas	544	Mcf.	Bean		/64"		

Noted
Cont
6-17-57

SUMMARY

TOTAL DEPTH: 5922'

CASING:

Conductor 16" cem @ 23'.
10 3/4", 40.5#, J-55 cem @ 400'.
7", 23#, J-55, N-80 cemented @ 5557.10'.

DRILL STEM TESTS:

#1 - 4484 - 4501'
#2 - 4750 - 4772'
#3 - 4827 - 4847'
#4 - 5337 - 5362'
#5 - 5410 - 5435'
#6 - 4794 - 4812'

WORK DONE

0' - 22½', 16" conductor.

August 18, 1956

Kerr-McGee Oil Industries moved in and rigged up.

Spudded @ 8:00 p.m. August 18, 1956.

Drilled 13 3/4" hole, 4½" F.H. drill pipe, water drilling fluid.

23' - 410' 387' Drilled

Opened hole 23' - 410' with 15" bit.

August 19, 1956

Cemented 10 jts. 10 3/4" casing @ 400'.

Cemented w/248 sax common cement. Howco power equipment. Used 2 rubber plugs. Good returns. Cement in place 6:00 p.m.

Casing Detail:

All	10 jts.		423'	10 3/4", 40.5#, J-55, 8rd thd (includes Baker guide shoe and Baker float collar one jt. apart).
Total	10 jts.	or	423'	
Above K.B.			23'	
Cemented at			400'	

Casing summary:

Landed 10 3/4" casing 16' below Kelley Bushing, leaving 384' of casing cemented at 400'. Recovered 39' of 10 3/4" casing. Cut and recovered 16' of 16" conductor.

Stood cemented 24 hrs. Installed Class III BOPE. Pressure tested to 1500# (while standing cemented).

Drilled out collar cement and guide shoe.

Drilled 9" hole, 4½" drill pipe, 9.0 - 9.6 ppg mud.
410' - 4420' 4010' drilled

Started losing mud at 3110'.
Lost returns at 3411' approx 250 bbls 3414 to 3435'.

August 29, 1956

Ran Schlumberger Electric Log and Microlog Caliper. Recorded interval 4236 - 405'.

August 31, 1956

Diamond cored 8 7/8" hole 4½" drill pipe 9.4 ppg mud.

Core #1 - 4420 - 4505', Rec

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #1 (cont'd)

4420 - 4421½ - Sh, dk gr-grn, sft, sl slty, sl poker-chipped
4421½ - 4422¾ - Dol-Coq, ost, tn, sl slty, hd, tite, dull tn min flsn, NS
4422½ - 4423 - Sh, dk gr-brn, mod hd, fiss, scatt foss frgs, sub oil-sh
4423 - 4424 - Sltst, m gr-grn, hd, scatt incls gr sh & m-crs sd, ti, patchy dk brn stn, dull yel-tn flsn, fnt cut, musty odor
4424 - 4442 - Ss, ev-stn'd dk brn, f-m, sa-sr, fair sort, com f crm dol cols, sft fria, excel perm, 20% por, dk brn blk flakes & globules oil intergranular, dull earthy gold-brn flsn, inst silvery-yel cut, musty odor, looks wet. (Mud stn'd frac, bleeding dk brn oil). aa, bcm vf-f, m brn ev-stn, ltl interstitial brn-blk oil, scatt th lams gr-grn sh, low-good perm, 15% por, cut & flsn bcm patchy to lam
4442 - 4443 - Sltst, lt gr-grn, hd, com incls & ptgs grn sh, sft, scat incls ss, gr, f-m, p sort, arg, NS
4443 - 4454 - Ss, lt gr wi 75% patchy-spotty lt brn stn, f-vf, ang, good sort, com arg cem, fair hd, sl fria, low perm, 12-15% por, patchy gold-yel flsn, inst silvery-yel cut, musty odor, bcm evn m gr-brn stn, f, fair-good perm, 15% por, flsn & cut aa, musty odor, looks wet
4454 - 4455 - Ss, lt grn-gr, vf-m, a-sa, v p sort, hd, v arg, sl micac, ti, NS, bcm Sh, br grn, sft, sl waxy
4455 - 4457 - Ss, m gr-grn, th laminar m brn stn, vf-f, sa, good sort, sl arg, hd, ti-tr lam perm, 12% por, lam gold-yel flsn, inst silver-bl cut, fnt musty odor
4457 - 4461 - Sh, m gr, sft, in part sl slty, irreg frac, bcm finely inlam'd wi sltst, m gr, hd
4461 - 4464 - Sltst, gr, hd, sl bcm com'ly reworked wi sh aa
4464 - 4467 - Ss, ev m brn stn, vf-f, sa, ev-sort, cln, scat th sh inlams, hd, low perm, 15% por, ev erty gold-brn flsn, inst silvery bl-wh cut, musty odor, grading to patchy dk brn stn, vf-f, hd, sl arg, ti, 12% por, dull dk brn flsn, cut aa, musty odor
4467 - 4469 - Sltst, lt gr, hd, cln
4469 - 4471 - Sh, dk grn-gr, mod hd, slty
4471 - 4473 - Sltst, gr, hd, sl ddy, sl arg
Ss, lt tn-gr, f-m, scat crs, sa-sr, hd, com dol cem, ti, 10% por, dull brn-tn min flsn, NS
4473 - 4474 - Cgl, ss aa contain abd pebs tn-olive dol-sh, blk, brn, dk gr pebs to ¼", ti, spotty min flsn, NS
4474 - 4475 - Sltst, lt gr, hd, opn fract, mud stn'd
Sh, bl-grn, sft, @ top, 2" reworked dol following, 4" reworked dol @ base
4475 - 4477 - Ss, lt gr, sl tn, vf-crs, a-sr, v p sort, hd, sl dol cem, ti, 10-12% por, dull brn min flsn, NS
4477 - 4478½ - Sltst, gr, hd, v arg,
4478½ - 4479½ - Sh, br grn-bl, slty, mod hd
4479½ - 4481 - Ss, aa,
4481 - 4487 - Sltst, gr, mod hd, sl to v arg
4487 - 4499 - Ss, gr-grn, vf-f, good sort, mod hd, sl arg, fair perm, 15% por, patchy dk brn stn, dead globular-flaky intergran oil, patchy dull brn flsn, slow blue-wh cut, musty odor, opn fract, sl mud-stn'd, wi scat grn sh incls to 1", stn bcm ev dk brn, dead, flsn & cut aa, except bcm f-m, excel perm, 15-20% por, stn, fast cut as above,
4499 - 4501 - Sltst, gr, hd, finely reworked wi sh, dk gr, slty, mod hd
4501 - 4502 - Ss, lt gr-wh, f-m, a, fair sort, cln wi com f blk acc min/gs, hd, ti, 12% por, NSOF
4502 - 4505 - Sh, dk gr, blk, mod hd, sl slty, scatt foss frgs, sl poker chipped

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

SEPTEMBER 3, 1956

Core #2 - 4505 - 4588', Rec 83'

4505 - 4509 - Sh, dk olive-brn, mod hd, rare silty lams, com org frgs, sl poker-chip tendency, bcm commonly & closely inlam'd w/v th dk gr arg sltst ptgs
4509 - 4510 - Sltst, gr, hd, cln, inlam'd w/v th v dol'ic sdy sltst, min flsn, gr-grn, mod hd, v arg grdg to slty sh, hd, rare f micac
4510 - 4513 - Ss, lt gr, vf/sltst, ang, fair sort, hd, sl dolic, tr bcm low perm, 12% por, dull dk brn min flsn, NS
4513 - 4514 - Sh, dk grn, sft, intimately inlam'd wi v th gr-grn slty sh, mod hd
4514 - 4515½- Sltst, lt gr-grn, hd, v finely sdy, tr v f mica
4515½-4516 - Sh, m grn, sft, dns, tr diss pyr
4516 - 4521 - Ss, tn, vf, well sort, fair hd, v dolic, tr/low perm, 12% por, erty dull gold-brn/brn min flsn, no vis cut, no petrf odor
4521 - 4522 - Sltst, lt grn-gr, mod hd, varg, rare rnd m sd gs
4522 - 4524 - Sh, dk grn, sft, irreg frac
4524 - 4525 - Sltst, lt gr, hd, v arg, com fltg sd gs, a/r, f/m, diss pyr
4525 - 4526 - Ss, lt gr, patchy (25%) dk brn stn, f/m wi sm lenses cse, poor sort, v hd, sl dolic, ti, 10-12% por, brite gold-yel flsn where stn'd, fnt/nil cut, fnt petrf odor
4526 - 4527 - Sltst, tn-gr, v hd, v dolic, scat th sdy strs
4527 - 4528 - Sh, lt olive tn, v hd, v dolic, ltl slt. Frac, mud stn'd.
4528 - 4529 - Dol-ool, tn, aggregate of elg m/crs crm dol ools, rare concentric struct, scat a qtz grains, f/m, ltl mass tn dol; ti, 7% por, dull brn min flsn,
4529 - 4532 - Sh, m grn, mod hd, ireg frac, tr diss pyr, bcm dk gr, btl,
4532 - 4533 - Sltst, gr & tn in th strs, abd'ly oolitic wi f/m crm elg dol ools in tn lams, hd sdy sltst wi lenses v f sd titely cemt'd wi dol, min flsn, NS
4533 - 4534 - Ss, gr, vf/m, a, p sort, hd, abd'ly ool wi elg crm dol ools, marbled wi th reworked sh lams, ti, 10% por, dull brn min flsn, NS
4534 - 4539 - Sh, lt gr-tn, v hd, v dolic to dom dol, v abd r dol ools to ½mm, frac-mud stn'd; bcm closely inlam'd wi th dk grn sh; bcm dom dk grn sh, mod hd wi com tn dolic sh inlams, ools com in dolic sh lams
4539 - 4542 - Sh, grn & gr-tn alternating in gradational 3-4" zones, scat sl re-worked 1" bands v dolic tn sh, sft to hd where dolic
4542 - 4543 - Dol, tn, complexly reworked wi grn sh above; coarsely marbled appear, mod hd,
4543 - 4544 - Sh, grn, sft, rare strs gr arg ss, irreg frac
4544 - 4550 - Ss, lt gr, f/crs, r/sr, v p sort, mod hd, v arg, ti, 10% por, NS, bcm mainly gr-brn wi flaky intgr dk brn oil, f/crs, a/sa, wi zones sa/r, p sort, sft, fria, scat gr-wh ashy sh lumps to ½mm, low/good perm, 12-18% por, erty gold-yel flsn, fast cut to slivery-yel bl, no apprec odor
4550 - 4552 - Sh, grn & sft to gr-tn, vy dolic, hd, abd ¼mm dol ools, slty to sdy,
4552 - 4554 - Sltst, lt gr, hd, sdy, arg, mod dolic
4554 - 4557 - Ss, ev lt brn stn, f/m, a/sa, fair sort, mod sft, fria, mainly cln wi scat cly lumps to 5mm, rare detrital min gs, low to excel perm, 15-20% por, flaky intergran brn oil, brite gold-yel flsn, inst silvery-gr cut, musty odor
4557 - 4558 - Sltst, lt gr, hd, ltl vf sd, arg; grdg to - - -
4558 - 4560 - Sh, lt grn-gr, vy slty, hd, sh, m grn, mod hd, btl, sl slty, tr diss pyr
4560 - 4573 - Ss, gr-tn wi patchy (50%) m brn stn & flaky glob brn oil, f/m, sa/sr, p sort, sft, fria, v dolic wi abd dol ools, scat sh pellets, scat acc mins, good/excel perm, 17% por, patchy gold-brn flsn, inst gr-wh cut, musty odor; bcm tn gr, f, sa, excel sort, sft, fria, sl dolic, mainly cln, good perm, 15% por, dk brn min flsn, looks wet, NS

Core #2 (cont'd)

4573 - 4574 - Sltst, lt gr, v finely sdy, hd, tr diss pyr
4574 - 4577 - Ss, lt gr, vf/sltst, sa, ev-sort, cln, scat vf blk min gs, fair/good perm, 15% por, looks wet, NSOF
4577 - 4578 - Cgl, f/3 mm qtz gs, a/sa, tn dol pebs to 4mm, gr cly lumps to 5mm, rnd'd glossy blk pebs, ti/low perm, variable por, spotty min flsn, NS
4578 - 4584 - Sltst, grn-gr, hd, v arg, sdy, tr diss pyr, rare sd gs, f/m,
4584 - 4585 - Sltst, lt gr, hd, lenses vf, ev-sort, rnd sd gs, titely cemt'd wi arg-dol
4585 - 4586½ - Dol, tn-grn, hd, sdy-slty, v arg, abd f/m crm dol gs, rare osts, ti, 5% por, min flsn, NS; frac, mud stn'd,
4586½ - 4588 - Sh, dk brn-blk, hd, scat tn dolic strs, gr sltst ptg (2")

- -

September 4, 1956

Core #3 - 4588 - 4661', Rec 73'

4588 - 4590 - Sh, gr & dk olive-brn, mod hd, sl/v slty, scat blk organic frgs, ltl sub-oil sh in th inlams
4590 - 4600 - Ss, lt gr, vf/f, sa, well sort, hd, well ind, scat f dol gs, f diss pyr, ti, 10% por, min flsn, NS; bcm lt gr-tn, vf/f, sa, ev-sort, hd, abd f/m crm chky dol lumps, scat gr sh gs m/crs, tr/low perm, 15% por, ev dull gr-yel flsn wi 30% patchy yel wh flsn, fnt cut, fair pet odor
4600 - 4604 - Sh & Sltst, alternating in 4" zones, sl reworked; Sh gr to dk gr mod hd, sl slty, Sltst, lt gr, hd, dns,
4604 - 4607 - Sltst, lt gr, hd, finely sdy; 4" Sh, dk gr-brn, sft, sl slty,
4607 - 4618 - Sh, dk brn to dk gr-brn, oil sh in part, mod hd, btl, scat th inlams wi rare ptgs tn dol-dolic sh, cont osts; aa, sub-coq (ost) in th dolic lams
4618 - 4624 - Sltst, lt gr, sl grn, hd, dns, sl dolic; bcm Sltst & Sh, Sltst aa & Sh, dk gr-grn, hd, sl slty, tr scat pyr; irreg'ly inlam'd
4624 - 4626½ - Ss, lt gr/gr, vf/crs in irreg th lams, p-sort, hd, com dolic & arg, abd inlams, sl reworked th dk gr sh strs, ti wi rare lam perm, 10-15% por, scat min flsn, NS
4626½ - 4631 - Ss, lt gr, sl grn, vf/f, sa, fair sort, sl arg, mod hd, low perm, 15% por, NSOF; bcm fair perm,
4631 - 4634 - Sltst, m grn-gr, hd, v arg, com fltg f/m sd gs, tr diss pyr
4634 - 4649 - Ss, gr, f/m, sa/sr, ev sort, mod sft, fria, cln, low/excel perm, 15-20% por, looks wet, NS; bcm med crs, sr, fair sort, sft, com acc min gs, & sh lumps to 1mm, excel perm, 20% por, NSOF
4649 - 4653 - Sh, dk gy, sft, dns; 8" reworked Dol & Sh, hd, sdy, scat osts, ools, swirled; Sh, m grn, slty in part, mod hd
4653 - 4654 - Dol, tn-grn, hd, abd osts & ools around ost nuclei, arg wi com sh lumps and incls to 1", reworked, min flsn, NS
4654 - 4655 - Sltst, lt grn, gr, hd, sdy, v arg,; frac, sl mud stn'd
4655 - 4661 - Ss, lt gr, f, sr/r, excel sort, com dol cem, scat dk gr osts, hd, well ind, ti, 15% por, min flsn, NS; bcm tr/low perm, ti, ltl th'ly inlam'd w/scat sh ptgs

- -

DST #1 - 1½ Hour Formation Test of Interval 4484 - 4501'.
Halliburton straddle test w/pkrs @ 4478, 4484 and 4501', bottom hole anchor. Tool opened w/weak blow, incr to good in 10 min. Gas to surface in 26 min. Est approx 50 MCF/D. SI 30 min. Rec 645' mud cut water and 1980' clear water testing 800 ppm Cl^-.

Charts:	IH	IF	FF	SI	FH	
Top BT	2240	20	1210	2240	2240	Max salinity -
Middle BT	2245	20	1205	2240	2260	
Bottom	Recorder indicates bottom packer held o.k.					

September 5, 1956

Core # 4 - 4661 - 4715', Rec 54'

4661 - 4665 - Ss, gr, f/m, sa/sr, good sort, sft, fria, cln, com f blk Sh & min gs, 17% por, good/excel perm, looks wet, NSOF; bcm f/cse, sl arg, cem & scat gr sh incls to 1"; bcm thinly & irreg'ly inlam'd wi sl reworked sh ptgs.
4665 - 4666 - Sh, dk gr, sft, reworked & marbled wi Sltst, lt gr, hd
4666 - 4670 - Ss, aa, except vf, sa, low/fair perm, 15% por, wet, NSOF; bcm f/m, cln, 17% por, good/excel perm, wet; bcm vf, sl arg, low/fair perm, 12-15% por, wet, NSOF; bcm closely inlam'd wi sl reworked th sh ptgs.
4670 - 4674 - Sh, dk olive-gr, mod hd, sl dolic, irreg reworked wi Sltst, gr, hd, sl arg
4674 - 4677 - Ss, gr, f/m, sa, well sort, mod sft, cln, com f blk min gs, 17% por, good/excel perm, looks wet, NSOF; bcm f/crse, v p sort, cgl'ic wi Sh lumps & pebs to 5ml., tr/low perm, spotty min flsn, looks damp, NS
4677 - 4679 - Ss, gr, tn, vf/f, a/sa, fair sort, dolic cem wi scat tn dol lumps, 15% por, low perm, min flsn, looks wet, NSOF; bcm hd & ti
4679 - 4681 - Sh & Sltst, dk grn-gr, sh, mod hd, irreg'ly inlam'd & reworked wi sltst, gr, hd,
4681 - 4687 - Sh, dk olive-brn, hd/mod hd, slty, scat th strs sltst, gr, hd; bcm sh aa, except sft, rare slty in lams
4687 - 4691 - Ss, dk gr, wi th tan inlams, vf/f, sa, good sort, hd, abd vf/f blk spherulites & abd patchy tn sucrosic dol; rare fish scales, 12% por, ti/low perm, patchy/lam min flsn; bcm int & vf inlam'd wi dk gr sh, slt
4691 - 4693 - Sltst, gr, hd, wi abd v th dk gr, slty sh inlams; frac sl mud stn'd
4693 - 4695 - Ss, gr-tn, vf/m, a/sa, vp sort, hd, abd chalk buff dol lumps to 2mm & lt gr sh incls to 1", rare osts, 10% por, tr perm, dull min flsn, NS
4695 - 4697 - Sh & Sltst, irreg inlam'd & gradational, dk gr Sh & gr sltst, mod hd/hd
4697 - 4699 - Sltst, gr, hd, sdy wi scat 4" zones vf/slty ss, 10% por, low/tr perm,
4699 - 4701 - Sltst, gr, hd, sdy, closely reworked wi thin slty dk gr sh; frac
4701 - 4703 - Sh, dk grn-gr, mod hd, slty, rare thin ptgs gr sltst; frac, mud stn'd
4703 - 4704 - Ss, lt gr, vf/med, sa/r, p sort, hd, calc cem, scat incls lt grn, v arg ss, 10% por, ti, NSOF
4704 - 4706 - Sh, m grn, sft, dns
4706 - 4708 - Ss, lt gr, vf/m, a/sa, p sort, hd, scat sh incls, com f/m blk sphs, scat osts, 12% por, ti/tr perm, dull min flsn, NS
4708 - 4709 - Sh & Sltst; Sh, dk br, sft, scat blk org fragn & Sltst, lt gr, hd, sl sh inlam'd
4709 - 4711 - Ss, lt grn-gr, f, a, good sort, mod hd, com arg cem, com m blk sphs, rare osts, 12% por, ti/tr perm, tr min flsn
4711 - 4713 - Sltst, lt grn-gr, hd, sdy, scat osts, sl dolic
4713 - 4714½ - 2" Coq-Ost, bl-gr, hd, calc cem, inlam'd wi sltst aa, ost'l, dolic Sh, olive-grn, m hd, sl slt, scat thin inlams sltst, gr, hd
4714½ - 4715 - Sltst, lam lt gr & buff, hd, lams v dolic wi abd tn osts

Core #5 - 4715 - 4805'; Rec. 90'

4715 - 4719 - Sltst, gr, hd, irreg'ly inlam'd wi ltl dk gr-grn, sh, slty
4719 - 4744 - Sh, dk grn-blk, sft, rarely slty, sl poker-chip, few th inlams sltst, aa; bcm Sh & Sltst, thinly inlam'd, sl reworked, core firm, dns; Fracs, mud stn'd
4744 - 4746 - Ss, lt gr, f/m, scat cse, sa/sr, p-sort, well ind, hd, com m/crs sh, blk sph, min gs, rare osts, ti, 10% por, dull pin-pt min flsn, NS; bcm lt gr, vf/sltst, sa, ev-sort, cln, hd, 12% por, ti wi ltl lam perm, NSOF
4746 - 4748 - Sh, dk gr, mod hd, dns, rare sltst inlams, bcm dk brn oil sh in basal 4"
4748 - 4753 - Ss, lt gr, vf/sltst, sa, ev-sort, cln, hd, closely inlam'd & sl reworked wi brn slty sh; ti/tr perm, 10% por, 20% patchy m-brn stn wi good yel-wh flsn, fnt cut, fnt pet odor; bcm vf/f, stn & flsn, incr to patchy, 60%, cut & odor aa; bcm intimately & v thinly inlam'd wi sh, rare stn, flsn, cut & odor
4753 - 4758 - Sltst, gr/dk gr, hd, sl arg, sdy in part, irreg'ly inlam'd wi sh, dk gr wi inlams dk brn oil sh, sl reworked wi sltst
4758 - 4764 - Ss, lt gr, vf/sltst, sa, ev-sort, hd, sl arg wi scat gr slty sh incls, ti, 12% por, NSOF; bcm gr, vf/crs, sa/r, vp-sort, sh cem, hd, scat blk gs, ti, 10% por, NSOF; bcm m brn-stn'd, f/m, fair sort, com wh cly gs to 1mm, 13% por, low/fair perm, erty buff flsn, inst gr cut, fair pet odor; bcm ev dk brn-stn'd, m/crs, mainly cln, scat sh/cly lumps to 3mm, 12% por, fair/good perm, dull erty yel-brn flsn, inst cut, strong pet odor
4764 - 4769 - Sltst, gr, hd, scap ptgs sdy, closely inlam'd & sl reworked wi Sh, dk gr, sft, sl slty
4769 - 4774½ - Sh, dk gr, mod hd, dns, finely slty, scat pap-th strs sltst, aa
4774½ - 4778 - Sltst, gr, hd, complexly & closely reworked wi Sh, aa, slty; core hd, dns
4778 - 4783 - Ss, lt gr, vf, sa, ev-sort, cln, hd, closely inlam'd wi pap-th dk olive-grn slty, v finely micac sh, gently reworked, 10% por, ti wi scat lam perm, tr/low, ltl patchy/spotty yel flsn where ss adj sh, fnt cut, no odor; frac, cln to mud stn'd
4783 - 4791 - Sh & Sltst, closely inlam'd & sl reworked sltst, gr, hd, sdy & Sh, dk gr, mod hd, slty in part.
4791 - 4800 - Sltst & Sh, aa, broadly inlam'd & transitional in 2-4" zones, mod reworked, core firm, dns; (Sltst, gr, hd, sdy, reworked closely wi dk olive brn, slty, sh, dull gr-tn flsn in sh, fnt cut & fnt pet odor)
4800 - 4802 - Ss, lt gr, 90% lam/patchy lt brn stn, vf/f, a/sa, fair sort, cln, suc, hd, rare pap-th shy inlams & rare lt grn sh lumps to 1", 15% por, low perm, erty yel-gr flsn, inst leached cut, good pet odor, sl gassy
4802 - 4805 - Sltst & Sh; alternating 2-4" zones Sltst, gr, hd, sdy & Sh, grn-gr, mod sft, ltl slty

DEPTH CORRECTION: STEEL LINE MEAS: 4805 = 4801

September 9, 1956

Core # 6 - 4801 - 4891', Rec 90'

4801 - 4802 - Sh, dk gr-blk, mod hd, slty, irreg'ly inlam'd wi Sltst, gr, hd
4802 - 4805 - Sltst, gr-grn, mod hd, arg, v sdy, dns, irreg frac; bcm lt grn-gr, incr'ly sdy
4804 - 4814 - Ss, lt gr, sl grn, patchy (20%) lt brn stn, vf/f, sa, fair sort, mod hd, fria, com arg cem, 12% por, ti/tr perm, 50% bri yel flsn, inst bl-wh cut, fnt gassy odor; stn bcm m brn, 75%, low/fair perm, est 15% por, strong gassy odor on fresh break; 3" Sh, bl-grn, com m sd gs, mod hd; Ss, lt gr-wh, vf/f, sa, ev-sort, scat r, m qtz gs, v hd, well-ind, 10% por, ti, NSOF; bcm lt gr, vf/f, sr, fair sort, com buff, chky tn dol lumps f/5mm, scat dol cem, v hd, well ind, 10% por, ti, spotty min flsn, NS
4814 - 4818 - Sh, m grn-bl, mod hd/sft, dns, scat grn-tn dolic sh lenses, scat slty/sdy ptgs as indicated
4818 - 4820 - Sltst, lt gr-tn, v hd, v dolic, sl arg
4820 - 4824 - Sh, m grn, mod hd, slty/sdy grdg in irreg zones to Sltst, lt gr, v hd, sdy, sl arg, sl reworked wi sh
4824 - 4825 - Ss, gr, f/sltst, sr/r, p-sort, abd arg cem, hd, com to sub-coq tn osts, ti, 12% por, min flsn, NS
4825 - 4828 - Cow-Ost, gr-tn, osts in arg-dol mtx, ti, 5% por, min flsn, NS
4828 - 4830 - Spherulite, dk bl gr, aggregate of blk sr/r, f, well sorted gs, closely cem'd wi wh calc-arg cly, scat smoky a qtz gs, scat f/m tn dol gs, tr/low perm, 10-12% por, dull dk brn min flsn, NS/ grading to - - - - -
4830 - 4840 - Ss, dk gr, patchy 75% brn stn, vf/f, sa, fair sort, com dol-arg cem, com/b abd sphs aa, 15% por, low perm, patchy dull yel flsn, inst bl-wh cut, fair gassy pet odor; bcm f/m, scat th inlams dk brn slty sh; vf/f; bcm closely inlam'd wi v th & sl reworked Sh, gr-brn, sl slty, v finely micac, tr pyr, rare fish scale
4840 - 4843 - Sltst, gr, hd, sdy, com vf blk sphs, intimately inlam'd & reworked wi dk gr-brn sh, slty, micac
4843 - 4844 - Sh, dk grn-blk, mod hd, rarely slty, v finely inlam'd wi v th gr sltst; poker chip tendency
4844 - 4851 - Sltst, lt gr, hd, v finely sdy, arg, massive; bcm incr'ly arg; bcm irreg'ly parted wi 1-3" sh, bl grn, mod hd, slty, dns; (2" Ss, lt gr, 50% m brn stn, vf/sltst, hd, con, ti, 10% por, brite yel-buff flsn, fair gassy pet odor)
4851 - 4852 - Ss, lt gr-wh, vf/crs, sa/r, vp sort, v hd, com dk gr pebs to 5mm, 10% por, ti, NS
4852 - 4854 - Sh, dk gr, hd, dns, v slty
4854 - 4857 - Sltst, lt gr-wh, v hd, massive; bcm gradationally parted wi dk slty sh as indicated
4857 - 4862 - Sh, dk gr, sft, irreg'ly inlam'd wi Sltst, lt gr, hd, sdy in part; bcm intimately & v finely inlam'd ; (6" Sh, gr-tn, v hd, v dolic, slty, irreg th lams Sltst, gr, v hd, dolic
4862 - 4865 - Sh & Sltst, dk grn sh, sft, rarely slty, irreg'ly inlam'd & closely reworked wi Sltst, gr, hd, sdy, dolic
4865 - 4870 - Ss, lt gr, sl grn, vf, sa, ev-sort, hd, com to v arg, 10% por, ti/tr perm, NSOF: bcm f/m, sa/r, fair sort, arg; ; bcm incr'ly sdy, 5% spotty stn, yel flsn, no apprec odor; bcm tn, fv/crs, sa/r, vp sort, v hd, dol cem abd, scat incls dol/dolic sh to ½", ti, 10% por, min flsn, NS (6" Sh, olive-tn, v hd, dns, v dolic)
4870 - 4878 - Sh, grn, sft to hd & slty, irreg'ly scat th/6" zones sltst, lt gr-grn, v hd, arg, sdy/v sdy; bcm olive-tn & dolic, inlam'd wi sltst & sh, aa

Core #6 (cont'd)

4878 - 4881 - Sltst aa, sdy, closely & complexly reworked wi Sh, dk brn-blk, sft, sub-oil sh
4881 - 4889 - Sh, dk brn-blk/blk, sft, btl, v thinly to broadly parted w/zones Sltst, gr, v hd, v finely sdy, cln/sl dolic; bcm dom Sh, dk gr/blk, mod hd/hd, sl slty/v slty, pap-th inlams sltst, aa
4889 - 4891 - Sltst, lt gr, sl grn, hd, arg, scat qtz gs, r, m, frosted

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DST #2 - 2 Hour Formation Test of Interval 4750 - 4772'.
Johnston straddle test with pkrs 4745, 4747 and 4772. Bottom hole anchor. Tool opened w/weak blow increasing to fair in 6 min and decreased to weak at end of test. SI 30 min. Rec 45' black hi pour point oil, 90' sli water and oil cut mud and 270' sli mud cut water, tr oil

	IH	IF	FF	SI	FH
Top PRD	2390	90	180	1450	2390
Middle PRD	2380	90	175	1460	2390

Bottom recorder indicates bottom packer held o.k.

September 11, 1956

Core #7 - 4891 - 4876', Rec 84'

4891 - 4892 - Sh, grn, sft, com f fltg sd gs to v abd vf/f sd, tr diss pyr
4892 - 4896 - Ss, lt grn-gr, vf/f, sa/a, well sort, v arg, sft, ti, 10-12% por, NSOF 4" Sh, dk grn, sft, com/abd fltg vf/m qtz sd gs; ss aa, bcm incr arg wi scat incls v sdy lt gr-grn sh, 8% por, ti, NS
4896 - 4898 - Sh, grn, sft, dns, scat vf/f r qtz sd gs, rarely washed
4898 - 4901 - Sltst, lt grn-gr, mod hd, mod arg, v sdy, gradational from sh aa,
4901 - 4903 - Sh, dk gr-grn, sft, dns, sl slty, rare f/crs fltg qtz gs, tr diss cubic pyr
4903 - 4912 - Ss, lt gr-grn, f/sltst, sa wi scat r & frosted m/crs gs, p-sort, v arg wi lt grn cly cem, sft, massive, ti, 10% por, NSOF; ss aa & sh, aa, gradational in 4-6" zones; ss, gr, f/m, sa/sr, well sort, cln, sft, fria, finely peppered wi f/m blk gs, good perm, 17% por, wet, NSOF; Ss, gr-grn, vf/f, sa, fair sort, sl/v arg, mod sft, ti/low perm, 12% por, looks damp where perm, NSOF: aa, bcm v arg/cly'y
4912 - 4924 - Sltst, lt gr, sft, v arg; & Sh, dk gr-grn, sft, dns, irreg'ly inlam'd from pap-th to 4"; 4" Spherulite, dk gr, f blk gs, r, well sort, hd, calc cem, finely sdy, tr/low perm, 12% por, min flsn, NS; 8" Ss, gr/dk gr, f/m, sa, fair sort, arg-dol cem, hd, com osts & f sphs, ti, 12% por, ltl min flsn, NS; bcm dom Sh, dk grn-blk, sft, closely & v thinly inlam'd wi Sltst aa
4924 - 4929 - Ss, lt gr, vf/m, sa/sr, p-sort, finely reworked & closely inlam'd wi Sh, dk grn, slty, com f/m blk sphs, mod hd, ti, 10% por, NSOF; aa, Ss bcm vf/f, sr, v arg & more closely inlam'd wi pap-th sh ptgs aa, NSOF
4929 - 4931 - Sltst, lt gr/lt gr-grn, mod hd/hd, mod/v arg, diss wf muscovite, bcm v finely inlam'd wi slty gr-grn sh toward base
4931 - 4936 - Sh, dk grn, sft, ring-tailed to completely crushed; aa, bcm ltl inlam'd wi th strs Sltst, gr, hd, sl arg
4936 - 4938 - Sltst, gr, hd, non/sl arg, v finely sdy in part, intimately inlam'd wi th & sl reworked Sh, dk gr-grn, sft
4938 - 4945 - Ss-Cgl, ev dk brn stn, f/m, sa/sr qtz sd, com/abd pebs cht, qtz, dol, sh & cly crs/⅜", flaky/glob dk brn interstitial oil, 15-20% por, low/good perm, eull yel-brn flsn, inst gr-bl cut, musty/burnt odor, looks wet

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #7 (cont'd)

4945 - 4947 - Sh, gr/dk gr-grn, hd, abd tn patches v dolic/dol, sdy incls, marbled & reworked, scat osts
4947 - 4949 - Dol, patchy tn/gr, chky amorph dol reworked wi gr arg dol, sl sdy, hd, ti, 8% por, fnt gr-tn min flsn, NS
4949 - 4952 - Ss, lt gr-tn, f/m, sa/sr, fair sort, com dol cem, mod sft, com osts, 15% por, tr/low perm, dull gr-tn min flsn, NS; bcm 95% dk gr-brn stn, low/fair perm, dull yel-gr flsn, inst gr-wh cut, fair pet odor; bcm dk gr, f/crs, sa/r, v p sort, calc-dol cem, hd, abd f/m blk sphs, com osts, 12% por, ti, dull min flsn, NS
4952 - 4955 - Sltst, lt grn-gr, hd, sl arg, scat osts, diss muscovite, few irreg grn, more arg sltst strs
4955 - 4958 - Ss, lt gr, vf/slty, sa, well sort, cln to sl arg, hd, massive, 12% por, ti, NSOF
4958 - 4960 - Sh, dk grn, sft, dns, sl ring-tailed
4960 - 4962 - Sltst, lt gr, v hd, ltl calc cem, massive
4962 - 4970 - Ss, lt gr, vf/sltst, sa/a, well sort, cln, v hd, scat pap-th & sl reworked inlams dk gr sh, 12% por, ti/tr perm, NSOF; bcm vf, sl arg, tr perm, ; bcm lt gr-tn, vf/f, sa, well sort, cln wi com/abd th inlams cont abd tn osts & ltl dol cem, sft, fria, 15% por, fair/good perm, dull lam min flsn, looks wet, sa, bcm f/m, good perm; bcm buff-gr, vf, sa, good sort, abd/sub coquinoid wi buff osts, abd chky tn dol cem, hd, 10% por, ti, min flsn, NS
4970 - 4971 - Sltst, lt gr, hd, abd vf/f sd, sl arg & irreg'ly inlam'd wi dk gr-grn slty sh
4971 - 4975 - Ss, lt gr-tn, vf/f, sa/sr, fair sort, abd tn dol osts wi th lams coquinoid, hd, dns, 10-15% por, ti to low perm in alternating 4" zones, min flsn, NS; fracs, mud stn'd, core broken,
4975 - 4976 - No recovery

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September 13, 1956

DST #3 - One Hour Formation Test of Interval 4827 - 4847'.
Halliburton straddle test w/packers @ 4822, 4827 and 4847'. Bottom hole anchor. No W.C. or BHC. Tool opened w/faint blow - dead in one hr. SI 30 min. Rec 5' blk hi pour point oil; 15' mud.

	IH	IF	FF	SI	FH
Top BT	2385	25	48	245	2360
Middle Bt	2493	40	52	230	2468

Bottom recorder indicates bottom packer held o.k.

Core # 8 - 4976 - 5051', Rec 75'

4976 - 4981 - Ss, gr, f, sa, well-sort, tr arg-dol cem, scat dk gr sh ga 1-2mm, sft, fria, 15-17% por, good/excel perm, water wet, v fnt min/flsn, NS
3" Ss, aa, bcm vf/sltst, arg, ti wi lam perm in 1" stk. NSOF;

4981 - 4983 - Sltst, lt gr, hd, sl arg, closely inlam'd & reworked wi Sh, dk olive-grn, dns, sft,
4983 - 4986 - Ss, lt grn, vf/sltst, sa, fair sort, v arg to sdy lt grn sh, sft, fria, massive, ti, 8-10% por, NSOF
4986 - 4988 - Ss, lt gr, f/m, sa, good sort, mainly cln, scat incls tn dol to 5mm, sft, fria, scat f/m blk gs, 15-17% por low/fair perm, water,wet, NSOF, frac, mud stn'd, ltl LCM

Core #8 (cont'd)

4988 - 4991 - Sh, dk brn-blk grdg to dk grn-blk, sft, btl, sl poker chip; (6" Sltst, gr, hd, v finely x-bd'd wi sl dk'er arg stks); Sltst, gr, v hd, dns, massive, vf, v finely micac

4991 - 4993 - Sh, gr-grn, slty, hd, irreg'ly inlam'd wi Sh, dk grn-blk, sft, 2" Coq-ost, olive brn osts in arg-dol mtx, hd, ti, min flsn, NS)

4993 - 4995 - 4" Ss, lt gr, vf/sltst, fair sort, sl arg, hd, ti, 10% por, NSOF; aa, sh bcm finely inlam'd wi Sltst, gr, hd, sl arg, scat osts; Frac, sl mud stn'd

4995 - 4997 - Coq-ost, dk bl-blk, aggregate of dk gr-blk calc osts in velvety blk (carb sh?) mtx, rare f/vf qtz gs, ti, 6-7% por, fnt min flsn, NS; bcm sdy sltst, sft, calc, com/abd osts, inlam'd wi sh aa

4997 - 5001 - Ss, lt tn-gr, f/m, sa/sr, fair sort, ltl dol-arg cem, sft, fria, scat osts, rare dk gr pebs to ¼", 15-17% por, fair/excel perm, wet, dull min flsn, NS; Ss, lt gr-crm, vf/m, sa/rnd & frost, poor sort, com dol-arg cem, mod hd, sl fria, scat osts, ti, 10% por, dull min flsn, NS; bcm f, sr/r, well sort, com dol cem, hd, ti/tr perm, NS

5001 - 5006 - 14" Ss, aa, except vf/f, p-sort, abd dolic-arg cem, ti/tr perm, 12% por, dull min flsn, NS; aa, bcm mainly fine, cln, good/excel perm, 18% por, wet, NSOF

5006 - 5015 - Ss, aa, except vf/m, p-sort, abd olive-tn dol-arg cem, abd ost, some wi pisolitic tn encrust, low/fair perm, 12-15% por, min flsn, NS (here bcm cgl wi pebs to 1/8", sft, fria, 10% por, ti/tr perm, NS); Ss, lt gr, vf, well-sort, sl calc, hd, fair perm, 15% por, massive, NSOF; Ss, lt gr, m, sa, lenses vf/f, fair sort, cln, com f/m blk sphs, 15% por, low/fair perm, wet, NSOF; aa, bcm f/m, NSOF; aa, lt gr-grn, vf/sltst, well sort, sl arg, mod sft, ti, 12% por, NSOF

5015 - 5029 - Sh, olive grn, mod hd, btl, rare slty/sltst lams, poker chip; 14" Sltst, lt gr, v hd, massive, tr arg, rare vf muscovite; Sh aa, bcm sft, poker-chip & sl ring tailed; aa, closely poker-chip'd

5029 - 5036 - Sltst aa, bcm lam'd (pap-th/½") wi Sh, dk grn-gr, mod hd, dns, sl/com slty

5036 - 5042 - Sh, dk grn/grn-gr, sl/vy slty, scat th lenses & lams gr, arg Sltst; aa bcm grn, sft, ring-tailed & poker chip'd

5042 - 5046 - Coq-ost, tn, osts in buff dol mtx, ltl calc cem, com ost-mold por (est 15-20%), ti, dull brn min flsn wi patchy (10%) brite yel flsn, inst leach gr cut, no odor; aa, here ev lt brn stn, tr perm, ev brite yel flsn, inst stream cut, fair pet odor; frac, mud-stn'd

5046 - 5047 - Spherulite, dk gr-blk, aggregate r, m, blk sphs, ltl tn dol cem, excel sort, closely inlam'd wi dk brn-blk th sh, ti, 5% por, NS

5047 - 5051 - Sh, dk grn-blk, grdg to olive grn, mainly soft, com osts on some ptgs

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Core #9 - 5051 - 5141', Rec 90'

5051 - 5052 - Sh, dk gr/dk brn-blk, sft, slty wi scat th lenses/lams dk gr-grn sltst, sft, v arg

5052 - 5053 - Sltst, lt grn-gr, hd, sl arg, massive, scat th/1" ptgs sh aa; grdg to - -

5053 - 5089 - Ss, lt gr-wh, 60% lam/patchy dk brn stn, vf/sltst, sa, well sort, dolic, hd, well-ind, ti, 10-12% por, patchy dull tn-gr flsn, fair gr-yel cut, fair petrf odor; aa, bcm ev dk brn stn, lam perm, flsn, cut aa, fair pet odor; aa, scat th sltst/sh inlams, tr/low perm, 15% por, lam stn, flsn, cut aa, fair pet odor, aa, ev dk brn stn, vf/f, well sort, scat grn sh incls to 1", low/fair perm, dull yel-gr flsn, gr-wh cut, fair pet odor;

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #9 (cont'd)

5053 - 5089 - Ss, lt gr, fw strs dk brn stn, vf/f, sa, well sort, ltl arg cem, sft, fria, scat blk carb woody frgs, low perm, 12-15% por, rare strs flsn, cut aa, looks damp, no apprec odor; Sltst, gr, hd, v finely sdy, sl arg & Sh, dk gr-grn, sft, poker chip'd, rarely slty, broadly alternating as shown; 12" Ss, lt gr, vf/m, sa/sr, p-sort, well ind, hd, ti, 8% por, NSOF; frac, mud stn'd heavily; grdg to - - Ss, gr, f/m, sa, sr, fair sort, sl arg bcm cln, sft, fria, low bcm good/excel perm, 15-17% por, wet, NSOF; Ss aa except here wi com dol-arg cem, tr/low perm, 12-15% por, NSOF; aa, bcm mainly f, sa, excel sort, 15-18% por, good perm, wet, NSOF; 4" Sltst, gr-grn, mod sft, arg

5089 - 5094 - 6" Sltst, gr, hd, sdy; 12" Sh, brite grn, mod hd, dns, v slty wi abd fltg vf/f fltg qtz gs; 4" Ss, lt gr, m/crs, sr/r, frosted, fair sort, abd tn dol cem, hd, ti, 10% por, dull min flsn, NS

5094 - 5096 - Ss, lt gr-wh, str'd wi dk gr & blk, vf/f, sa, fair sort, dol'ic wi freq arg & slty strs, threaded wi blk carb mat'l, ti, 12% por, NSOF 12" Sh, dk gr-blk, mod hd, finely slty, inlam'd sl wi Sltst, gr, hd, arg

5096 - 5099 - Sltst, lt gr, hd, scat r sd gs, f/m, sl arg, scat th inlams; Sh, dk grn-brn, slty, mod hd

5099 - 5102 - Sh, dk grn-blk, sft, dns, rare slty, scat blk carb frgs, sl poker chip'd

5102 - 5105 - Sltst, lt gr, hd, sl sdy, commonly inlam'd & closely reworked wi Sh, gr-grn, finely slty, diss mica; frac, sl mud stn'd; bcm lt gr-wh, massive, sdy, finely threaded wi blk carb mat'l

5105 - 5118 - Sh, dk olive-grn, sft, scat th inlams & sm lenses sltst aa; closely poker chip'd; bcm Sh, sft, closely poker chip'd; grdg to - - - Sh aa, bcm inlam'd wi ltl pap-th Sltst, gr, hd, arg; 12" Sh, aa, bcm sub coq'oid-ost, v calc/arg ls, inlam'd wi Sltst & Sh aa

5118 - 5131 - Ss, lt grn-wh, vf, sa, well sort, v arg, scat pap-th lenses & lams slty grn sh, sft, ti, 12% por, NSOF: bcm lam'd in scat 1-2" ptgs wi ss aa, except spotty/patchy m brn stn'd, sl arg, low lam perm, 15% por, spotty/patchy brite yel flsn, inst silvery-gr cut, fair gassy pet odor; Ss-sltst, lt grn, patchy m grn, vf/sltst, sa, well sort, v arg wi patches slty/sdy grn sh, sft, massive, ti, 8-12% por, NSOF 3" Sh, dk grn-gr, sft, dns, ring-tailed; Ss, lt gr, vf/f, sa, well sort, sl arg, hd, massive, tr perm, 10-12% por, NSOF

5131 - 5132 - Sh, dk olive-gr, sft, btl, rare pap-th inlams Sltst, poker chip'd Sltst, lt gr-olive grn, hd, arg-dol'ic, massive

5132 - 5141 - Ss, m tn-olive grn, vf/f, sa, well sort, dol'ic, abd f/m blk sphs, scat sm osts, hd, well-ind, ti/tr perm, 15% por, dull brn min flsn, NS; aa, bcm ev dk brn-stn'd, low perm, brite yel-wh flsn, inst silvery-bl cut, fair/good gassy pet odor; frac cln, patchy dk brn oil stn; bcm patchy/th lam stn, cgl'ic ptgs wi sh & blk sph pebs to ¼", ti/tr perm, 12-15% por, scat flsn, cut aa, no apprec odor; Ss, lt grn-wh, patchy grn sh, vf, well sort, v arg wi com m/lams/patches sft grn sh, mod sft, tr/low perm, 12% por, NSOF; 3" Sh, mot gr-dk gr, sft, btl, scat sm lenses Sltst, gr, mod sft, arg.

September 15, 1956

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WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

September 17, 1956

Core #10 - 5141 - 5231', Rec 90'

5141 - 5162½- Sh, dk gr-blk/dk brn-blk, sft, dns, abd'ly poker chipped, sl ring-tailed & apple cored; 4" Sltst, lt gr, hd, massive, v f diss muscovite; 6" Sltst, gr, v hd, massive, sl arg, tr vf mica aa

5162½- 5170 - Dol-cgl, tn, amorph, algal tn dol mtx cont tn, lt brn, gr & blk rnd'd pebs ¼"/1", scat lenses crs/5mm r gs, ti, approx 15% por, sl blotchy yel flsn, inst br yel cut, good pet odor; 4" Sh, dk brn-blk, sft, dns, poker chip'd; aa, dol-cgl, bcm arg, 30% spotty br yel-gr flsn, no cut, NS; Sh, dk grn, sft, much washed & broken; bcm m grn-gr, mod hd, v slty, sl vf sdy, sl poker chip'd

5170 - 5176 - Dol-coq-ost, tn/lt brn, dns tn dol mtx cont v abd tn osts, ltl scat vf qtz sd, v hd, ti, 5% por, dull lt brn min flsn, NS; aa, bcm gr-tn, arg, sl slty, ti, NS; bcm m gr-tn, v arg, ti, NS; frac, opn, sl mud stn'd

5176 - 5181 - Ss, gr/dk gr, f, sa, well sort, rare osts, rare f/m blk gs, sft, fria, 15-17% por, good perm, wet, NSOF; aa, dk gr, vf/f, sl arg, abd vf blk sphs, 15% por, good perm, wet, NSOF

5181 - 5186 - 6" Sltst, lt gr, hd, v f sdy, com vf blk sphs, closely inlam'd wi gr-grn slty sh; 8" ss, aa, except f/crs, a, vp sort, com cgl dk gr/blk pebs to 5mm, scat arg patches, 10% por, fair perm, NSOF; 4" Sh, dk grn/olive grn, sft, slty, scat arg lenses ss aa,

5186 - 5190 - Sltst, lt gr-wh/grn-gr, hd/mod hd, sl/v arg, sl sdy, fw scat v th inlams dk grn-gr sh, slty; bcm alternating in 1" ptgs wi sh, dk gr-blk, sft,

5190 - 5194 - Sh, dk olive grn, sft, rarely slty, poker chip'd; bcm mod hd, slty

5194 - 5201 - Ost-coq, olive brn/dk grn, v arg, v slty, hd, ti, 5% por, fnt dull tn min flsn, NS. Scat 1-12" ptgs Sh, dk brn-blk, sft, ost'l on ptgs, scat org frgs, poker chip'd; aa, bcm incr'ly slty-vf sdy, v hd, NS

5201 - 5203 - Sltst, m/dk gr, hd, scat v sm tn osts, v arg wi blk coaly-slty, sh, closely & v thinly inlam'd wi Sh, blk, coaly, slty, sft,

5203 - 5217 - Sh, dk grn, sft, sl slty, abd'ly inlam'd wi Sltst, gr, hd, arg, grdg to Sh, aa, rare v th inlams gr, arg sltst. Poker chip'd; Sltst, lt gr, v finely sdy, com vf/f blk sphs, sl arg, closely inlam'd wi th ptgs Sh, aa, sft

5217 - 5220 - Ss, lt gr-wh wi lt grn patches, f/m, sa/sr, fair sort, sl arg wi com v arg lt grn patches, scat sft brn woody incls to 5mm, ti/tr perm, 10% por, NSOF

5220 - 5221 - Sh, gr-grn/grn, mod hd/hd, slty/v slty

5221 - 5223 - Ss, lt gr-grn, vf/f, sa, ev-sort, v arg, mod hd, sl fria, ti, 10% por, NSOF

5223 - 5225 - Sltst, lt gr, hd, sl arg-dolic, v sdy; bcm sl inlam'd wi v th olive-brn slty sh

5225 - 5228 - Ss, gr, vf, sa, well sort, sl arg, scat f/m red-brn woody frgs, ti/tr perm, 12% por, NSOF

5228 - 5231 - Sltst, lt grn-gr, hd, v arg, rare incls blk carb/hydcarb

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September 19, 1956

Core #11 - 5231 - 5288', Rec 57'

5231 - 5232½- Ss, lt gr-wh, fnt grn, vf/sltst, sa, well sort, arg, ltl scat dol, diss brn org frgs, tr vf mica, ti, 8-10% por, NSOF

5232½- 5266 - Sh, dk olive-grn, sft, rare v th gr sltst lenses & inlams, closely poker chip'd, ltl ring-tailed; Sh aa, reworked wi com sm curls & twists

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #11 (cont'd)

5232½ - 5266 - Sltst, gr, hd, arg; 3" Spherulite, dk gr, hd, agg f blk sphs, calc mtx, sl sdy, hd, NS; Sh, olive grn, mod hd, v slty, gradationally parted wi pap-th/1" zones; Sltst, gr, hd, arg; sl poker chip'd; Sh, olive grn/dk grn-brn, mod hd, sl slty, rare v th sltst inlams, closely poker chip'd; Sh, dk gr-grn, sft, mod inlam'd wi th/¼" lams & lenses Sltst, gr, hd, sl sdy, sl arg; poker chip'd, ring tailed in part; Sh, aa, bcm m olive-grn, rare v th inlams sltst aa; Sh, dk gr-brn, sft, btl, closely poker-chip'd; 5" Sh aa wi com reworked sdy lstst lenses & ptg to 1"; 1' Sltst, lt gr-wh, hd, v finely sdy, fw scat vf sphs, Ah aa, sft, core broken

5266 - 5267 - Ss, lt grn-gr, vf/f, sa/sr, fair sort, ltl arg cem, hd, well-ind, ti, 10% por, NSOF

5267 - 5269 - Sh, dk grn, sft, sl slty, sl poker-chip'd

5269 - 5280 - Ss, lt grn-gr, vf/m, sa/r, p-sort, v arg, mod hd, ti, 7-10% por, NSOF; Ss aa, bcm alt in 2" zones wi sl reworked sltst, grn-gr, hd, v/arg, finely sdy; Ss, lt grn-gr, vf/f, sa, ev-sort, arg, sft, fria, 12-15% por, ti/low perm, NSOF; Ss, lt gr, vf/m, sa/sr, fair sort, arg, low/fair perm, 12-15% por, looks wet, NSOF; bcm vf, well sort, arg, tr/low perm, NSOF 8" Ss aa, except alt in 1" ptgs wi sdy grn sh.

5280 - 5288 - Sh, m grn/dk gr-grn, btl, sl poker chip'd, irreg'ly parted wi 2-4" zones Ss, gr/grn, slty, v arg, com'ly reworked wi Sh, ti, NSOF; 5" Sltst, lt grn-wh, v hd, com vf/slt rnd qtz gs, sub-qtz'ic; Sh, grn/dk olive grn, sft, poker chip'd, irreg'ly inlam'd in pap-th/3" zones wi Sltst, gr-grn, he, arg, sl reworked

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September 21, 1956

Core #12 - 5288 - 5371', Rec 83'

5288 - 5289 - Sltst, lt gr, hd, few v th dk grn sh inlams at top

5289 - 5299 - Sh, dk grn-gr, mod hd, rare v th inlams/lenses sltst aa, poker chip'd; 14" Sh, m olive grn, mod hd, massive, scat vf/f sd

5299 - 5302 - Sltst, lt olive grn, mod hd, v arg, com scat blk organic frgs; bcm less arg, v finely sdy, tr vf diss muscovite; Sltst, lt gr, hd, v finely

5301 banded/lam'd wi ls arg strs

5302 - 5311 - Sh, dk gr-grn, mod hd, slty, dns; Sh, dk olive-brn, sft/mod hd, slty/v slty, poker chip'd; Sh, m grn-blk sft, scat vf/f sd gs wi scat sdy lenses, massive, irreg frac.

5311 - 5318 - Ss, lt grn-gr, vf/f, sa, ev-sort, v arg, sft, ti, 10% por, NSOF; bcm 30% m brn stn'd, cln, hd, 12% por, ti/tr perm, patchy brite gold-yel flsn, fnt cut, fnt pet odor; bcm ev m brn stn, vf, well sort, mainly cln, 12-15% por, low/fair perm, gold-yel flsn, yel-gr cut, fair pet odor; bcm f/m, cln, scat m blk gs, hd, good perm, show aa; Ss, lt grn-gr, vf/f, ev-sort, arg, hd, scat ¼" inlams sh, tr/low perm, 12% por, ltl lam stn & show aa

5318 - 5322 - Sltst, lt gr, hd, v finely sdy, scat pap-th & sl reworked inlams dk gr-grn slty sh; bcm incr'ly closely inlam'd & reworked wi sh aa

5322 - 5325 - Ss, lt gr, vf wi com scat m/crs, p sort, arg, hd, few pap-th dk grn slty sh inlams, ti, 10% por, NSOF

5325 - 5331 - Sltst & Sh, irreg'ly & gradationally alternating; Sltst, lt gr, hd, sdy, arg & Sh, dk gr-grn, sl/v slty, mod hd, scat org frgs; bcm sh, dk grn-brn, sft, rarely slty, rare incls gilsonite

5331 - 5334 - Ss, lt gr, 10% spotty m brn stn, vf/f, scat m, sr, fair sort, calc cem, hd, com f blk sphs, ltl inlam'd & reworked wi pap-th dk grn sh ptgs,

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #12 (cont'd)

5331 - 5334 - 10% por, ti/low perm, spotty gold-yel flsn, fnt cut, fnt pet odor
5334 - 5335 - Sltst, gr, hd, dns, irreg'ly inlam'd & sl reworked wi Sh dk grn/dk olive brn, sft/mod hd, sl/v slty
5335 - 5337 - Dol-ool, olive-tn, agg f ools, dol cem, hd, ti, 5% por, ev lt brn flsn, NS; bcm v arg, com blk sphs, scat th inlams dk grn-brn sh
5337 - 5346 - Sltst, lt gr, hd, sl/mod arg, scat th sh ptgs; frac, sl mud stn'd; bcm v arg, sdy, massive, mod hd; bcm commonly inlam'd wi v th dk grn sh, sft
5346 - 5349 - Ss, ev m brn stn, vf, sa, cln, hd, scat f/m blk gs, 12-15% por, low/fair perm, brite yel-gold flsn, fnt yel-gr cut, good pet odor
5349 - 5352 - Sh, dk grn-gr, mod hd, v slty, ltl inlam'd wi softer, non-slty sh; aa, bcm inlam'd wi 2-3" Sltst, gr, hd, arg
5352 - 5359 - Ss, ev lt brn stn, vf, sa, excel sort, cln, hd, 15% por, fair perm, brite yel-wh flsn, inst gr-wh cut, good gassy pet odor; Ss, lt gr, vf/sltst, sa, well sort, mainly cln, hd, 12% por, ti/tr perm, NSOF
5359 - 5360 - Sltst, gr, mod hd, sl arg, closely inlam'd wi Sh, dk bl-grn, sft, v finely slty
5360 - 5365 - Sh, dk grn-bl, sft, broken & ring-tailed; Sh-Dol-Sltst, complexly & closely reworked, swirled wi dk brn org mat'l; bcm dns tn dol complexly reworked wi lt gr, arg ss, ti, min flsn, NS
5365 - 5370 - Ss, ev m brn lam stn, vf, excel sort, cln, hd, irreg'ly inlam'd wi gr Sltst & slty gr-grn, sh; 12% por low/fair lam perm, gold-yel flsn, gr cut, fair odor; Ss, lt gr, 20% patchy m brn stn, vf, sa, well sort, sl arg, massive, 12-15% por, tr/low perm, damp, patchy yel flsn, fnt cut, tr pet odor; aa bcm 30% stn'd
5370 - 5371 - Sltst, lt gr, hd, sl arg, bcm closely inlam'd & reworked wi dk grn-blk slty sh

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September 24, 1956

Core #13 - 5371 - 5461', Rec 90'

5371 - 5380 - Ss, lt gr, vf/f, sa, p-sort, arg-dol cem, abd sm lenses tn/dk grn sh, abd lams/3" zones dk grn slty sh, hd, ti, 10% por, NSOF; Sh, dk grn-gr/dk olive brn, sft, poker chip'd; bcm v sft poker chip'd & ring-tailed
5380 - 5383 - Sltst, lt grn-gr, mod sft, sl sdy, v arg
5383 - 5385 - Ss, lt gr-grn, vf/sltst, sa, ev-sort, v arg, mod sft, ti/tr perm, 12% por, NSOF; bcm 25% patchy lt brn stn, vf, sl arg, low perm, patchy brite yel flsn, inst gr cut, fnt pet odor
5385 - 5395 - Sh, dk grn, sft, rare sdy strs, poker chip'd; bcm closely poker chip'd; Sh aa, mod poker chip'd
5395 - 5401 - Ss, lt gr, sl grn, vf, sa, fair sort, v arg, mod hd, massive, tr diss pyr, ti, 10% por, NSOF; (Sh, dk grn, mod hd, abd fltg/lenses vf sd aa, massive)
5401 - 5404 - Sh, dk grn, v sft, sl waxy, badly washed & apple cored; bcm sft, sl slty, massive, sl ring-tailed
5404 - 5405 - Dol-oolite, gr-crm, f/m lt tn & blk ools in lt gr crm dol-cly mtx, com vf/f a qtz sd, sft, low perm, 10% por, dull min flsn
5405 - 5409 - Ss, lt gr-grn, patchy 75%/ev m brn stn, vf/f, scat m, a/sa, p-sort, ltl arg cem, scat blk gs to m, low/fair perm, 12-15% por, dull yel flsn, inst gr cut, fair pet odor; Ss, lt gr-wh, m/crs, sr/r, well sort, ltl calc cem, hd, scat acc min gs to 3mm, ti/tr perm, 10% por, NSOF; 6" Ss, ev lt brn stn, vf/f, sa, ev-sort, cln, fair perm, br yel-wh flsn, fnt cut, fnt pet odor

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #13 (cont'd)

5409 - 5410 - Sltst, lt gr, hd, abd & sl reworked sh inlams
5410 - 5422 - Sh, dk grn-blk, sft bcm ring@tailed, slty in strs, poker chip'd
5422 - 5423 - Sltst, lt gr & lt brn patches, hd, abd pap-th dk brn slty sh inlams
5423 - 5429 - Ss, ev m brn-stn, vf/f, sa, well sort, cln, mod hd, fria, scat f blk gs, 15% por, good/excel perm, dull yel-tn flsn, inst gr cut, fnt/fair pet odor, feels wet; fracs, heavily stn'd wi oil flecked mud;
5429 - 5432 - Sltst, lt gr-gr, hd, vf sdy, v arg, massive
5432 - 5440 - Sh, dk gr, mod hd, v slty bcm dk brn, sft, sl slty; Sltst, lt gr, hd, scat pap-th inlams sh, dk brn-blk, sl reworked; Ss, ev lt brn stn, vf, sa, well sort, cln, hd, fw scat vf/f blk gs, 15% por, tite, v dull m brn flsn, fnt yel-tn cut, tr pet odor; Sltst & Sh, closely reworked gr, hd, sdy Sltst & mod hd, sl slty olive-grn sh; Ss, ev lt gr-brn stn, vf, sa/sr, fair sort, arg, hd, fw vf/m blk gs, 10-12% por, ti/tr perm, fnt dull brn flsn, inst dull yel cut, mo apprec odor; Sltst, gr, hd, v thinly inlam'd & sl reworked wi olive-grn, slty sh; Sh, dk olive-grn, sft, rare slty/sdy strs/lenses, poker chip'd
5440 - 5441 - Spherulite, dk bl-blk, agg f/m blk, r sphs, calc mtx, com/abd vf qtz sd, he, 10% por, ti, NSOF
5441 - 5442 - Ss, lt gr-grn wi 50% lam m brn stn, vf/sltst, sa, well sort, arg bcm cln where stn'd, hd, com sl reworked sh inlams, ti/low lam perm, 10-15% lam por, stn'd lams dull yel-wh flsn, fnt dk'er cut, fnt pet odor
5442 - 5444 - Sltst, lt gr, hd, arg, v finely sdy, com'ly inlam'd wi olive grn slty sh, sl micac, rare th lams stn'd ss aa
5444 - 5447 - Sh, dk olive-grn, sft, scat th/1" inlams Sltst, aa; poker chip'd
5447 - 5448 - Sltst, lt gr, hd, arg, ltl vf sd, closely inlam'd wi dk olive grn sh
5448 - 5450 - Ss, 95% patchy/ev m brn stn, vf/sltst, a/sa, well sort, abd ¼" dk grn sh incls, scat unstn'd arg strs, sh inlams, 8-15% por, ti/fair lam perm, stn wi dull yel flsn, fnt gr-yel cut, fair pet odor
5450 - 5452 - Sh, m gr, mod hd, v slty, massive, scat 1-2" zones Sltst, gr, hd; sdy arg & Sh, dk grn, sft, rare slty strs
5452 - 5458 - Ss, lt gr-wh, vf/sltst, sa, well sort, sl arg, hd, th-bd'd wi dk arg strs, scat blk carb frgs, ti/low lam perm, 12% por, NSOF; (Scat 2-4" ptgs Sh, dk gr-blk, sft, slty - as shown)
5458 - 5461 - Sh, dk grn-blk, mod sft, v finely slty, poker chip'd, rarely washed

DST #4 - 3 Hour Formation Test of Interval 5337 - 5362'.
Howco packers at 5332, 5337 and 5362'. Bottom hole anchor. No BHC or WC. Tool opened with faint blow becoming intermittent w/faint blow for first hour gradually increasing to weak blow at end of test. SI 30 min, no gas to surface. Rec 10' high pour point oil & 50' oil cut rat hole mud. Mud salinity 300 ppm. Gas in excess of 350 units.

	IF	FF	SI	FH
Top BT	15	40	255	2578
Middle BT	25	62	245	2585

Bottom recorder clock stopped when tool opened.

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WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

September 26, 1956

Core #14 - 5461 - 5540', Rec 72'

5461 - 5464 - Sh, gr/dk gr, sft, sl washed, poker chip'd; (6" Ss, lt gr-tn, top 1" spherulite, patchy 80% lt brn stn, vf, ev-sort, v arg, sft, 7% por, ti, dull yel-gr flsn, tr cut, tr pet odor)
5464 - 5469 - Ss, lt gr, sl grn, vf/sltst, sa/sr, well sort, v arg, mod hd, ti, 7% bcm 10% por, NSOF, grading to - - -
5469 - 5473 - Sh, gr-grn, mod hd, abd fltg vf sd gs, massive; bcm dk grn, sft, com a/r vf/f sd gs, crushed; grading to - - -
5473 - 5495 - Ss, lt gr, sl grn, vf/f, a/sr, p-sort, v arg, mod hd, massive, ti, 8-10% por, NSOF; aa, bcm less arg; Ss, lt gr-wh, vf/f, scat m, sa/sr, vp sort, sl arg, massive, 12% por, ti, bcm low perm, looks wet, NSOF; bcm f/m, 15-17% por, fair/good perm, mainly cln, wet; (good perm, 50% patchy dk brn stn, flaky/coagulated intergranular blk oil wet, fnt musty odor); 1' Sh, m grn, reworked wi abd lenses & fltg vf/m sd, sft); bcm vf/sltst, well sort, v arg, 10% por, ti/tr perm, NSOF
5495 - 5496 - Sltst, lt gr, hd, arg, tr diss pyr, massive; grading to - - -
5496 - 5502 - Ss, lt gr, vf, sr/sa, well sort, sl arg, massive, tr bcm fair perm, 15% por, damp bcm wet, NSOF: bcm m/crs, sa, fair sort, ltl arg cem, abd cgl gs/pebs, wh, gr, blk, v crs/5 mm, 15% por, good perm, NS
5502 - 5506 - Ss, lt gr, vf, sr, well sort, v arg wi scat incls gr-tn dolic sh to ½", reworked, hd, ti, NSOF; bcm Sltst, lt gr, sft, v arg, abd fltg sd gs, vf/crs; bcm sdy to vf ss
5506 - 5508 - Cgl, lt gr-grn, lt gr, sh mtx cont abd sr chert pebs to ¼", gr, wh, blk, com diss pyr, 5% por, ti, NSOF
5508 - 5510 - Ss, lt gr, f, sa/sr, fair sort, v arg & com incls sdy grn sh, pyr, 8% por, ti, NSOF; bcm mainly cln, fair perm, 15% por, NS
5510 - 5511 - Sh, olive-grn, sft, rare fltg f sd gs, ring tailed
5511 - 5519 - Ss, lt gr-wh, f/m, sr, p-sort, ltl calc cem, hd, com f blk gs, scat crs cht gs, sh lumps, ti, 10% por, NSOF; 1' Ss, aa, mainly cln, 15% por, fair perm, wet, NSOF; Ss, gr, m, ltl f, sr, good sort, cln, com f/crs & r/a blk gs, 15% por, good perm, wet, NSOF; Ss aa, grdg to cgl below, 8-10% por, ti, NS.
5519 - 5520 - Cgl, mottled gr/dk gr, ssaa bcm v arg wi abd pebs tn dol, blk carb sh, cht, rose-qtz, wh cly, to ¼", ti, 5% por, spotty min flsn, NS
5520 - 5540 - Ss, lt gr, vf/sltst, sl arg, hd, ti/fair perm, in 4" alt zones, 15% por, wet in part, NSOF; (Sltst, lt gr, v finely sdy, sl arg, hd, sl str'd wi pap-th dk grn sh inlams); Ss, aa, bcm strongly peppered wi m/v crs blk gs, scat arg incls to ¼", 15% por, good perm, NS; 8" Sltst, lt gr, hd, scat ¼" inlams dk grn Sh, sft); Ss, aa, mainly cln, low bcm fair perm, 15% por, damp bcm wet, NSOF; 4" Sltst, arg, hd, reworked.
7' not recovered

DST #5 - 1½ Hour Formation Test of Interval 5410 - 5435'.
Howco straddle test w/packers @ 5404, 5410 and 5435' in 9" hole. Sidewall anchor. No WC or BHC. Tool opened w/fair blow remaining steady to end. Gas to surface in 15 min. Not enough to gauge. SI 30 min. Rec 180' drlg mud - gas cut; 1508' hi p p oil, gas cut.

	IH	IF	FF	SI	FH
Top BT	2690	175	490	1965	2690
Middle BT	2720	215	490	2005	2700

Bottom recorder clock failed

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WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

September 28, 1956

Core #15 - 5540 - 5608', Rec 66'

5540 - 5546 - Ss, lt gr, f/m, sa, excel sort, cln, sft, fria, 15-17% por, good/excel perm, wet, NSOF: aa, bcm f, mod hd, good perm, wet, NSOF: aa, bcm m/crs, excel sort, cln wi few sm chky tn dol lumps, excel perm, wet, NSOF; aa, bcm vf/f, fair sort, hd, scat grn sh incls ½-1"; hd, 12-15% por, low/fair perm, damp, NSOF; Ss, lt gr-grn, vf/sltst, good sort, v arg, sft, 10-12% por, low perm, bcm tite, damp, NSOF
5546 - 5548 - Sh, m/dk grn, sft, ring tailed/apple-cored & broken
5548 - 5553 - Sltst, lt grn-gr, mod hd, v finely sdy, arg, massive
5553 - 5569 - Sh, dk grn-gr, mod hd, v slty, massive, sl poker chip'd; bcm sft, non slty, badly washed, apple cored; Sh aa, sft, dk grn wi tr dk purple/brn mott; bcm firmer, slty, continuing dk ochre/brn mott; Sh aa, brite/dk grn, mott wi ochre, dk red-ben, tr lavender, v sft, badly washed to fecal appearance
5569 - 5571 - Sltst, gr-grn, sft, v arg grdg to slty grn sh in part; massive
5571 - 5574 - Ss, lt gr, vf/f, good sort, cln, sft, fria, 15% por, good/excel perm, wet, NSOF; grdg to - ⊖ -
5574 - 5575 - Sltst, lt gr, hd, abd vf/m sd gs, sl arg, massive, fnt sulfurous odor
5575 - 5576 - Sh, dk grn-gr, sft, v sdy/slty in part
5576 - 5580 - Ss, lt grn, vf/sltst, sa/sr, fair sort, scat r m sd gs, v arg, sft, massive, ti, 10% por, fnt sulfur odor, NSOF
5580 - 5586 - Sltst, lt gr-wh, sft, v finely sdy, v arg, massive, fnt sulfur odor
5586 - 5593 - Ss, lt gr, vf, sa, well sort, cln, mod hd, fria, 15% por, good perm, wet, NSOF: 8" ss aa, fair sort, cln, hd, ti, NSOF; Ss aa, bcm f/m, sl arg, 15% por, good perm, NSOF
5593 - 5597 - Sh, dk grn, mod hd, btl, sl slty, sl dolic in 1-2" ptgs, poker chip'd; bcm v sft, ring tailed
5597 - 5600 - Ss, lt gr, vf/f, a/sa, cln, hd, 15% por, fair/good perm, wet, NSOF; basal 4" Ss aa, bcm ti/tr perm, NSOF
5600 - 5600½ - Sh, dk grn-gr, sft, btl, sl slty, poker chip'd
5600½ - 5605 - Ss, lt gr, f, sr, ev-sort, cln, mod sft, fria, 15-17% por, good/excel perm, wet, NSOF; 4" Sltst, lt gr, hd, cln, NSOF
5605 - 5606 - Sltst, lt gr, hd, v th inlams gr arg sltst, scat th lams ss aa wi tr/low perm, NSOF
5606 - 5608 - Not recovered

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Core #16 - 5608 - 5675', Rec 66'

5608 - 5612 - Ss, lt gr, vf, sa/a, ev sort, cln, mod hd, fria, 15% por, good perm, wet, NSOF; Ss, lt gr-wh, vf/sltst, sa, fair sort, cln wi com th tn dol strs, scat osts, scat pap-th dk grn-gr slty sh inlams, hd, ti/tr perm, 10-12% por, NS
5612 - 5613½ - Sh, dk grn-blk, mod hd, v slty, abd f org frgs, sl poker chip'd
5613½ - 5617 - Ss, lt tn in top 2", below lt grn-gr, vf/f, sa/sr, fair sort, top v dolic, below v arg, mod sft, massive, 10% por, ti, NS; aa, bcm gr, sl grn, incr arg, 6-8% por, ti, NS
5617 - 5622 - Sh, m grn-gr, hd, massive, v abd vf/f sd, sa/sr, fair sort, grdg in part to v arg ss, 6-8% por, ti, NS
5622 - 5625 - Sltst, grn-gr, hd, v finely sdy, v arg, dns, massive
5625 - 5628 - Sh, m grn, sl gr, hd, v slty, scat fltg sd gs, vf/m, massive

Core #16 (cont'd)

5628 - 5635 - Sltst, m gr-grn, mod hd, v arg, common sd gs, f/m, sr/r; dns, massive; bcm here m grn-grn sh, v slty, mod hd, massive
5635 - 5637 - Ss, lt gr, m, sa, well sort, cln, sft, fria, 15% por, fair perm, wet, NSOF; aa, bcm f/m, sa/r, p-sort, ltl calc-arg cem, 10% por, ti/low perm, NSOF
5637 - 5640 - Sh, m grn-bl, mod hd, v slty wi com fltg sd gs, vf/f, dns, massive
5640 - 5647 - Ss, lt gr-wh, vf/f, sa/sr, ev-sort, com calc-arg cem, mod hd, dns, massive, 8-10% por, ti, NSOF; bcm vf, sa, well sort, mainly cln wi scat arg lenses/lams, dns, 12% por, tr/low perm, NSOF
5647 - 5648 - Sh, dk bl-grn, sft, inlam'd wi 1-2" ptgs ss aa
5648 - 5670 - Ss, lt gr, f/m, a/sa, excel sort, cln, sft, fria, fw scat acc gs, 17% por, excel perm, wet, NSOF; aa, bcm vf/f, mainly cln, 15-17% por, good/excel perm, wet, NSOF; 12" Ss, lt gr, vf/sltst, sa, fair sort, sl arg, irreg'ly inlam'd wi pap-th dk gr slty sh, 10-12% por, ti/tr perm, NSOF; aa, bcm vf/sltst, arg to cln in alt 2-3" lams, scat th sh inlams, mod hd, ti/tr perm alt wi fair/good lam perm, wet where perm, NSOF; Frac, mud-stn'd; Ss, lt gr, vf/sltst, sa, ev-sort, cln to sl arg, hd, irreg'ly inlam'd wi pap-th dk gr slty sh ptgs, 9-12% por, ti/low perm, wet in perm zones, NSOF; 6" Sh, m gr-grn, sft, poker chip'd & ring tailed
5670 - 5674 - Sltst & Sh; lt gr sltst, hd, sl arg, in part v f'ly sdy, closely inlam'd in pap-th/4" ptgs wi Sh, m gr/m gr-grn, sft & non slty to mod hd & finely slty, poker chip'd, sl washed
5674 - 5675 - No recovery

Core #17 - 5675 - 5714', Rec 37'

5675 - 5681 - Ss, lt grn-gr, vf/f, sa/sr, fair sort, arg, mod hd, dns, massive, 8-10% por, ti, NSOF; bcm incr'ly arg, 6-8% por, ti, NS
5681 - 5682 - Sltst, m grn-gr, mod hd, abd sd, v arg, dns, massive
5682 - 5687 - Sh, dk grn, mod sft, btl, slty wi abd vf/f fltg sd gs; bcm v sft, much washed, scat patches dk ochre/dk brn sh
5687 - 5693 - Ss, lt grn-gr, vf/f, sr, fair sort, v arg, sft, massive, 7-10% por, ti, NSOF; Ss, lt gr, f/m, sa/sr, ev-sort, mainly cln, mod sft, fria, 12-15% por, fair/good perm, wet, NSOF; bcm sa arg, 12% por, tr/low perm, damp, NSOF
5693 - 5699 - Sltst, lt gr, sl grn in part, hd, non/sl arg, v finely sdy, massive; bcm m grn-gr, arg, hd
5699 - 5701 - Sh, m grn, hd, btl, v slty, com fltg vf/f sd gs, dns, massive, sl poker chip'd
5701 - 5708 - Ss, ev dk brn stn, vf/f, sa/sr, ev-sort, cln, mod sft, sl fria, ev blk intergranular oil, 15-17% por, good perm, ev dull yel-tn flsn, inst silvery-cut, wet, fetid pet odor; aa, lt gr-wh, wet, NSOF; bcm lt gr, arg, 10% por, ti, NSOF
5708 - 5712 - Sltst, lt gr, hd, v arg, com vf/f sd gs, massive; bcm m gr-grn, hd, arg, dns, massive,
5712 - 5714 - Not recovered

Core #18 - 5714 - 5780', Rec 64'

5714 - 5716 - Sh, m brite grn, sl gr, mod hd, v sdy wi abd vf/f sr/sa gs, massive, dns, grdg to - -

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #18 (cont'd)

5716 - 5723 - Ss, grn-gr, vf/f, sa/sr, p sort, v arg, massive, mod hd, 8-10% por, ti, NSOF; Sh, m grn, sft, washed; Ss, lt gr, vf/f, sa/sr, fair sort, arg, dns, m-massive, hd, 8% por, ti, NSOF, grdg to - - -
5723 - 5724 - Sltst, lt gr, hd, massive
5724 - 5728 - Sh, m gr-grn, mod hd, btl, slty wi scat fltg vf/f sd gs, sl poker chip'd
5728 - 5732 - Ss, lt gr, vf/f, sr, good sort, sl arg, scat lenses gr-grn & v arg, hd, dns, 6-8% por, ti, NSOF
5732 - 5736 - Sh, dk grn wi scat patches mott ochre/brn, sft, badly broken & washed out
5736 - 5738 - Sltst, lt gr-wh, v hd, v finely sdy, scat lt tn osts
5738 - 5740 - Ss, lt gr-wh, vf, sa, ev sort, cln wi fw scat lt tn osts, hd, 12% por, low perm, wet, NSOF; bcm incr'ly ost'l & cont com f/m tn dol ools
5740 - 5742 - Dol-ool, tn, vf/m dol ools in v finely sdy dol mtx, abd tn osts, 10% por, tr perm, NSF
5742 - 5748 - Sh, grn-gr, hd, slty wi com th lenses arg sltst; bcm sft, non slty, broken, brite, dk grn; bcm v sdy wi abd vf/m sr/sa fltg sd gs
5748 - 5758 - Ss, lt gr, sl grn, vf/m, sr/sa, v p sort, v arg, sft, dns, 8-10% por, ti, NSOF; bcm f, good sort, mainly cln, mod sft, 12-15% por, fair/good perm, wet, NSOF; bcm m/crs, sr/r, p sort, scat lt grn sh incls to ½", scat lenses arg vf/f sd aa, ti, NSOF; 4" Sh, m grn, hd, v slty, massive; bcm vf, sa, ev sort, sl arg, hd, 8-10% por, ti, NSOF; 4" Ss, lt gr, vf, sa, ev sort, cln, 12% por, fair perm, wet, NSOF; incr'ly arg wi irreg zones grn, slty sh
5758 - 5761 - Ss, lt gr, vf/sltst, sa, ev-sort, cln, hd, 12% por, low perm, wet, NSOF
5761 - 5764 - Sh, dk grn-bl, sft, & wxy to hd & slty; bcm dk olive-brn, sl mott wi grn, v slty & sdy, massive
5764 - 5767 - Ss, lt gr-grn, vf/f, scat m, sa/sr, vp sort, v arg, mod hd, massive, 6-8% por, ti, NSOF
5767 - 5774 - Sltst, lt grn-gr, mod hd, massive, v arg; 9" Sh, dk grn-gr, sft, rarely slty; aa, bcm incr'ly arg, com vf/f sd gs, massive
5774 - 5776 - Sltst, aa, lt grn-gr, mod hd, v arg, com/abd vf/f, sr/r sd gs, massive
5776 - 5778 - Ss, lt gr-grn, vf, sa/sr, p sort, arg, massive, mod hd, 6-8% por, ti, NSOF
5778 - 5780 - No recovery

Core #19 - 5780 - 5796', Rec 10'

5780 - 5782 - Sltst, lt grn-gr, mod hd, v arg, abd sr/r vf/f sd gs; bcm lt gr-wh, sl grn, hd, sl arg, v sdy
5782 - 5784 - Ss, lt gr, vf, sa, ev sort, cln, hd, 10-12% por, low perm, wet, NSOF
5784 - 5790 - Sh, brite m grn, sft, sl waxy, scat internal slickensides, completely crushed; bcm dk bl-grn, 20% mott wi dk ochre/brn stn; bcm 50-70% dkbrn/dk ochre mott wi dk grn
5790 - 5796 - Not recovered

WELL NO: 12-16B (#51) PROPERTY: Section 16 RED WASH FIELD

Core #20 - 5796 - 5886', Rec 90'

5796 - 5802 - Sh, red-brn, v sft, completely crushed; Sh, gr-grn, hd, v slty; bcm dk gr-grn, mod hd, mod slty; Sh, grn, mod hd, slty wi abd lenses gr-tn sh, hd, abd vf/f qtz sd, v dolic
5802 - 5803 - Sltst, gr, v hd, com lt gr-tn osts, v dolic
5803 - 5804½ - Ss, lt gr, vf/f, sa/r, vp sort, v dolic, hd, abd tn osts, 6-8% por, ti, dull min flsn, NS
5804½ - 5812 - Sh, grn-gr, mod hd, v slty, com scat tn osts, sl sdy; bcm sft, v sl slty, washed, bcm ring-tailed, bcm gr-grn, mod hd, v slty, scat vf sd gs, bcm dk gr-grn, sft, scat brn osts, scat f/m r sd gs
5812 - 5819 - Ss, lt tn, f/m, sr/r, good sort, v abd chky tn dol cem, scat r, m lt brn dol ools, 8% por, ti, dull min flsn, NS; frac, opn, mud stn'd; 4" aa, 10% patchy dk brn stn, 12% por, low perm, fnt pet odor, inst silvery cut where stn'd; bcm 12% por, low perm, wet, dull min flsn, NS; ti/tr perm, 10-12% por, dull ev min flsn, NS
5819 - 5821 - Sltst, lt gr, v hd, abd vf/f qtz sd, scat lt tn osts, dolic, massive
5821 - 5823 - Sh, grn-gr, mod hd, sl slty, dns
5823 - 5827 - Ss, lt gr wi dk'er gr-grn, arg patches, vf, sa, well sort, cln, hd, tr/low perm, 12% por, NSOF; 4" Sh, lt grn, sft, ring tailed; ss aa, bcm arg, ti, 8-10% por, NSOF
5827 - 5829 - Sltst, lt grn-gr, hd, arg, abd vf/f sd gs
5829 - 5838 - Sh, brite m grn wi 30-50% purple & dull ochre & dk red-brn mott, v abd vf/m sd gs, sa/r, mod hd, massive
5838 - 5848 - Sltst, grn-gr, hd, v arg, massive, ltl (5%) ochre mott in top 4"
5848 - 5848 - Ss, lt gr-wh, vf/sltst, sa, poor sort, wh cly cem, 6% por, ti, NSOF; bcm lt grn-gr, more arg, ti, NSOF; Ss, lt gr, vf/f, sa, ev sort, cln, hd, 10-12% por, tr/low perm, wet, NSOF; aa, bcm sl arg, 10% por, ti/tr perm, NSOF
5848 - 5857 - Sltst, lt gr-grn, hd, arg, com vf sd, massive;
5857 - 5862 - Sh, grn-gr, v sft, talcy, crushed; bcm 50% mott wi dk brn sh, waxy, crushed; bcm dk brn wi spotty ochre-grn, sl slty, crushed; bcm red-brn, tr spotty grn, sl slty, crushed
5862 - 5873 - Sltst, red-brn, tr grn mott, v arg, abd vf/f sd, massive; Sltst, lt grn, hd, v arg, abd v f sd, massive
5873 - 5882 - Sh, dk red-brn, tr grn mott, v slty, mod hd, massive, (sft, sl slty); Sltst, lt grn-gr, hd, arg, v finely sdy, massive
5882 - 5886 - Ss, lt gr-grn, vf/sltst, sa/sr, fair sort, v arg, hd, ti, 6-8% por, NSOF, bcm lt gr-wh, abd wh cly cem, mod hd, 6-7% por, ti, NSOF

- -

Core #21 - 5886 - 5922', Rec 34'

5886 - 5889 - Ss, lt gr-wh, vf/m, sa/sr, p sort, sl arg, hd, massive, tr/low perm, 10-12% por, damp, NSOF
5889 - 5890 - Sltst, lt grn-wh, hd, sl arg, massive
5890 - 5893 - Sh, grn-gr, sft, rare f sd gs, massive, sl poker chip'd; bcm 30% mott red-brn, slty, mod hd
5893 - 5897 - Sltst, brite grn-gr, hd, v arg, com vf/f r sd gs, massive
5997 - 5920 - Sh, red-brn, scat mott grn, sft, btl, broken; Sh, dk purple-brn, mod hd, massive, abd f/m, sr/r, sd gs, slty; aa, bcm red brn; Sh, lt grn-gr, hd, v abd vf/f, sr/r sd gs, v slty, massive; (Sh, dk red-brn, 30% grn mott, mod hd, btl, sl washed); Sh, red-brn, ltl purple mott, sft, sl waxy, w washed; bcm red-brn, mod hd, v slty & sdy; bcm m gr-grn, 50% mott red-ochre, slty, scat sd; Sh, red-brn, 20% mott bl grn, sft, mod slty wi com vf/f r sd gs, badly washed, apple cored in part

Core #21 (cont'd)

aa, bcm mod hd, v slty wi abd vf/f sd gs, massive
5920 - 5922 - Not recovered

October 5, 1956

Ran Schlumberger Microlog Caliper and E. S. Recorded interval 5923 - 3900'.

October 6, 1956

DST #6 - 3 Hour Formation Test of Interval 4794 - 4812'.
Howco straddle test. Hookwall anchor. No WC or BHC. Tool opened w/faint blow. Dead in 40 minutes. SI 30 min. Rec 105' water cut mud.

	IH	IF	FF	SI	FH
Top BT	2525	40	50	180	2525
Middle BT	2510	50	70		2510

Bottom recorder indicates bottom packer held o.k.

October 7, 1956

Cemented 7", 23# casing at 5557'
Howco cemented with 250 sacks Controlmix (perlite additive) cement followed by 100 sacks regular Type I cement. No returns while mixing or displacing. Bumped plug with 1500 psi. Held o.k. Cement in place 8:00 p.m.

Casing Detail

All	191 jts. or	5561'	7", O.D., 23#, J-55, Rg 3, LT&C, 8rd casing. Includes Baker guide shoe & Baker differential float collar 2 jts up. Welded top of float collar and all joints below. 5 Baker centralizers, 5 above shoe, 5' above float collar and on alternate collars next 6 jts.
		5561'	
	Above K.B.	4'	
Cemented at		5557'	

October 8, 1956

Casing Summary

Landed 7" casing 14' below K.B. leaving 5543' of casing cemented at 5557'. Cut and recovered 18' of 7" casing.

Thermometric indicated top annular cement 3725'.

October 9, 1956

Ran McCullough Gamma Ray & collar log T.D. to 4200'. McCullough perforated 4 bullets/ft 4855 - 4858' (Schlum). Ran Baker junk basket. Ran Baker Model K magnesium cement retainer and set 4845'.

Squeeze Stage #1

Ran tubing and broke down with 2200 psi. Squeezed with 100 sacks Type I cement. Final pressure 1000 psi. Max press 1800 psi. Displaced 5 bbl beyond perfs. Howco equipment. In place 10:45 a.m. 10-9-56.

Squeeze Stage #2

Broke down with 1500 psi. Squeezed with 100 sacks. Max press 1800 psi. Final press 1100 psi. Displaced 5 bbl beyond perfs. In place 12:15 a.m. 10-10-56

Squeeze Stage #3

Attempted break down 4000 psi. Would not break down. Bled off slowly to 2300 psi where it held steady. Drilled out retainer and cleaned out to 5470' (top Float collar).

- -

October 11, 1956

Displaced mud with BF #5 and pulled out of hole. McCullough perforated w/3 jets and 3 bullets/ft 5425-5430', 5346-5360', 4830-4839', and 4756-4763'. (Schlum). Ran casing scraper. Ran Baker retrievable bridge plug and full bore retrievable packer on 2 7/8" tubing to sand oil squeeze.

- -

October 12, 1956

Sand Oil Squeeze #1 - Perf interval 5425-5432'. Broke down with burner fuel 3550 psi. Pumped in 30 bbl Rangely crude. Followed with 1500 gal sand oil mix (1½ ppg sand. Followed with 30 bbl Rangely crude. Displaced with 35 bbl burner fuel. Average pump press 3500 psi. Average injection rate 4.6 bbl/min.

Sand Oil Squeeze #2 - Perf interval 5346 - 5360'. Broke down 4500 psi. Pumped in 30 bbl Rangely crude. Followed with 3000 gal sand oil mix (1½ ppg sand). Followed with 30 bbl Rangely crude. Displaced with 35 bbl burner fuel. Average pump press 3500 psi. Average injection rate 5.6 bbl/min.

Sand Oil Squeeze #3 - Perf interval 4830 - 4839'. Broke down 1200 psi. Pumped in 30 bbl Rangely crude. Followed with 2000 gal sand oil mix (1½ ppg sand). Followed with 30 bbl Rangely crude. Displaced with 35 bbl burner fuel. Average pump press 2500 psi. Average injection rate 2.9 bbl/min.

Sand Oil Squeeze #4 - Perf interval 4756 - 4763'. Broke down 3200 psi. Pumped in 30 bbl Rangely crude. Followed with 1500 gal sand oil mix (1½ ppg sand). Followed with 30 bbl Rangely crude. Displaced with 35 bbl burner fuel. Average pump press 3000 psi. Average injection rate 3.5 bbl/min.

- -

October 14, 1956.

Pulled and ran bit to clean out. Well attempted to flow. Pumped 160 then 100 bbl BF #5 down casing with tubing shut in trying to kill well. Could not. Waited on OBM.

- -

October 15, 1956

Mixed OBM. Displaced BF #5. Ran Baker retrievable bridge plug and full bore retrievable packer to swab.

Swab tested perfs 5425 - 5432'. Made 7 runs 6:25 - 8:35 a.m. Recovered 51 bbl OBM. Made 23 runs 8:35 a.m. to 5:10 p.m. Recovered 132 bbls crude, 1 bbl water. Well flowed 6:45 p.m. - 2:25 p.m. 10-17-56. Recovered 145 bbls crude, 2 bbls water. Very little gas.

- -

October 18, 19, 1956

Swab tested perfs 5346 - 5360'. Made 6 runs 6:00 - 7:45 a.m. Recovered 41 bbls OBM. Made 17 runs 7:45 a.m. to 5:45 p.m. Recovered 50 bbls oil and 12 bbls water. Well started flowing. Flowed 10:00 p.m. - 1:00 p.m. 10-19-56. Recovered 49 bbls oil, 6 bbls water. Very little gas.

- -

October 20, 21, 1956

Swab tested perfs 4830-4839'. Made 10 runs 6:30 - 9:55 a.m. Recovered 35 bbls OBM. Made 13 runs 9:55 a.m. - 5:30 p.m. Recovered 3 bbls oil, 4 bbls water. Shut down because of darkness. Resumed swabbing and made 3 runs 7:15 a.m. - 7:45 a.m. 10-20-56. Recovered 2 bbls oil, 2 bbls water.

- -

October 21, 22, 23, 1956

Swab tested perfs 4757 - 4763'. Made 9 runs 3:00 - 5:35 p.m. Recovered 40 bbls OBM. Well started flowing. Flowed 9:30 p.m. - 1:30 p.m. 10-23-56. Recovered 49 bbls oil, 40 bbls water.

- -

October 24, 1956

Ran tubing and hung 5012'.

Displaced OBM with furner fuel.

Rig released 4:00 p.m. October 24, 1956.

W. E. WHITNEY

Pid.

December 19, 1977

7S 23E 16

PRODUCTION TRANSFER LINE
WELL LOCATION #12-16B
TO COLLECTION STATION "C"
RED WASH FIELD
UINTAH COUNTY, UTAH

#51

RECEIVED
JAN 6 1978
MINING

Mr. E. W. Guynn
U. S. Department of the Interior
Geological Survey
Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

Dear Mr. Guynn:

Enclosed is a NTL 6-Multi Point Surface Use Plan data sheet for the subject pipeline. This line will be a 3" nominal buried pipeline and will traverse portions of Sections 16 and 21, T7S, R23E, SLB&M as shown on the attached NTL 6. This line will be used to transfer produced fluid from well location #12-16B to Collection Station "C" facilities. The first ±2300' of this proposed line will follow on existing R.O.W. By utilizing this present R.O.W., this line can be laid with a minimum of surface disturbance.

Chevron U.S.A. Inc. requests permission to lay this line and begin construction as soon as possible.

Any correspondence on this matter may be sent to:

Chevron U.S.A. Inc.
P. O. Box 599
Denver, Colorado 80201
Attn: H. F. Copeland

Very truly yours,

H. F. COPELAND
Area Supervisor

STF:gld
Attachment

13 PT. MULTI-POINT SURFACE USE PLAN

JAN 6 1978

1. EXISTING ROADS

   A. NA
   B. NA
   C. See Exhibit A.
   D. NA
   E. NA
   F. No roads will be altered, changed, or improved from present status.

2. PLANNED ACCESS ROADS

   1-8 No roads or new roads will be constructed or reconstructed.

3. LOCATION OF EXISTING WELLS

   1-9 See Exhibit B.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

   A. 1-6 See Exhibit B.

   B. New facilities will consist of a 3" nominal, electric heat traced, wrapped and insulated, buried pipeline following a proposed R.O.W. from well location #12-16B to Collection Station "C" in Red Wash Unit. This subject well was returned to production in May of 1977. No flowline exists to handle the produced oil which necessitates that the oil must be trucked out from the location. During the cold winter months, the well must be shut in because the roads leading to this location are impassable due to rugged terrain and severe slopes encountered along the way. Therefore, it is recommended to install this flowline so this well will not be shut in and production can continue on a year round basis. The 3" welded line will be wrapped to help prevent corrosion. This should prevent any oil spills. Normal construction procedures will be used. "C" station is a collection station in Section 21B in the Red Wash Unit. This station has production facilities to meter and store the oil and water from its surrounding wells.

   C. R.O.W. will be reseeded to BLM specifications. R.O.W. will be water barred to prevent erosion.

5. LOCATION AND TYPE OF WATER SUPPLY

   A-C NA

6. SOURCE OF CONSTRUCTION MATERIALS

   A-D All necessary materials, except piping, etc., will come from soil on the R.O.W.

7. METHODS FOR HANDLING WASTE DISPOSAL

   1-6 Any left over construction material, debris, trash, or garbage will be picked up and disposed of in an approved disposal area. Any oil spills will be cleaned up to BLM specifications.

8. ANCILLARY FACILITIES

NA

9. WELL SITE LAYOUT

NA

10. PLANS FOR RESTORATION OF SURFACE

1-5 R.O.W. will be reseeded to BLM specifications. R.O.W. will be barred to prevent erosion.

11. OTHER INFORMATION

1. Terrain is hilly and rocky. The soil is a poorly developed semi-arid thin topsoil layer overlaying the Uintah Formation. Vegetation consists of small sagebrush, natural grasses and scattered small trees.

2. Surface use consists of livestock grazing as assigned by BLM.

3. R.O.W. does not encounter any water bodies, or traverse in the near proximinity of any occupied dwellings. Archeological, historical, or cultural sites may be determined by the BLM.

12. COMPANY REPRESENTATIVE

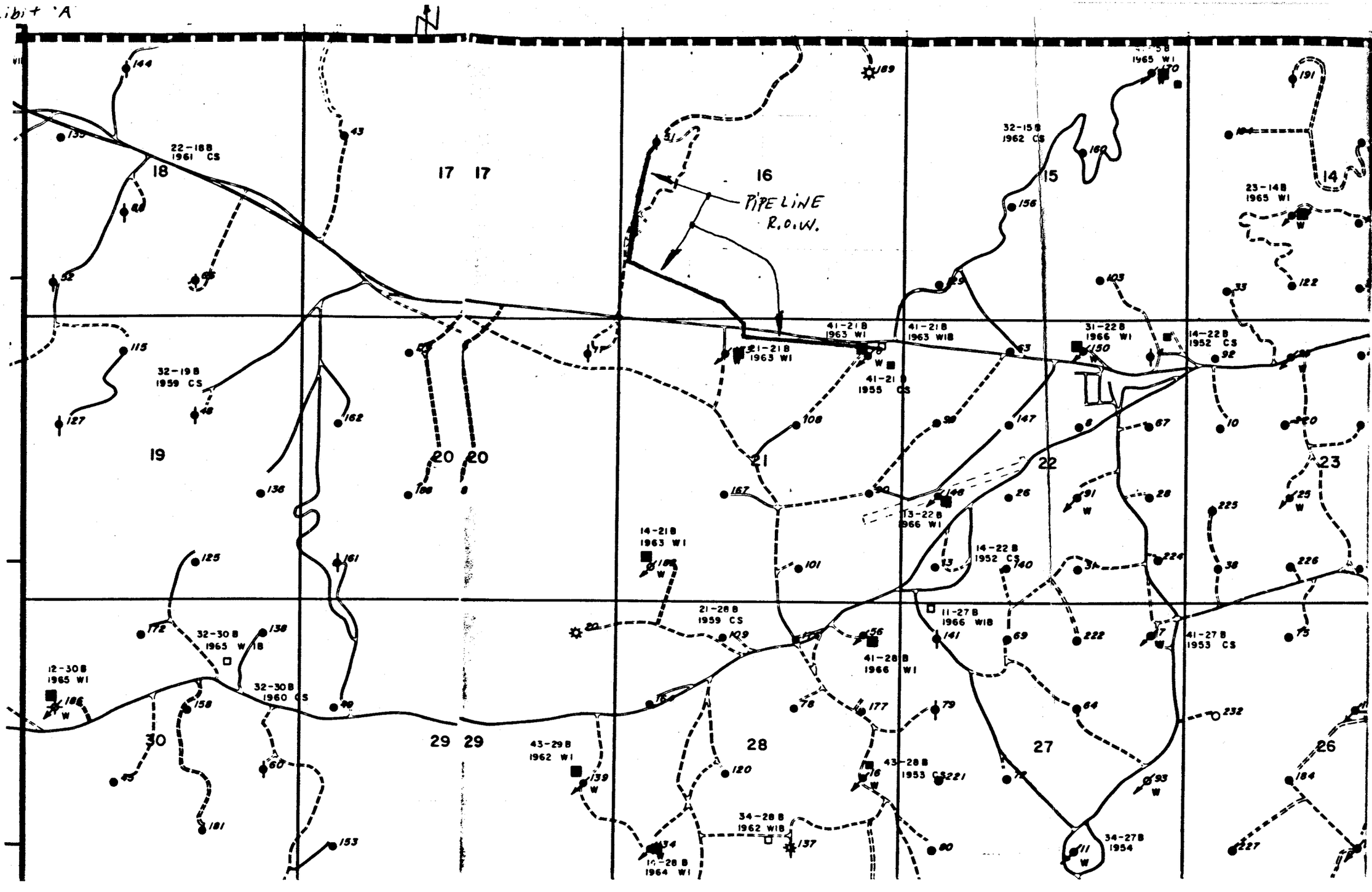
S. T. Foster, III
Chevron U.S.A. Inc.
P. O. Box 599
Denver, Colorado 80201
(303) 759-7109

13. I hereby certify that I or persons under my direct supervision, have inspected the proposed pipeline R.O.W., that I am familiar with the conditions that exist, that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Chevron U.S.A. Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

12-22-77
Date

H F Copeland / FHP
H. F. COPELAND, Area Supervisor

Exhibit 'A'


N
PIPE LINE
R.O.W.
22-18 B
1961 CS
32-19 B
1959 CS
32-30 B
1965 WIB
12-30 B
1965 WI
32-30 B
1960 CS
43-29 B
1962 WI
14-21 B
1963 WI
21-28 B
1959 CS
41-28 B
1966 WI
43-28 B
1953 CS
34-28 B
1962 WIB
14-28 B
1964 WI
41-21 B
1963 WI
41-21 B
1963 WIB
21-21 B
1963 WI
41-21 B
1955 CS
13-22 B
1966 WI
14-22 B
1952 CS
11-27 B
1966 WIB
34-27 B
1954
41-27 B
1953 CS
31-22 B
1966 WI
14-22 B
1952 CS
32-15 B
1962 CS
23-14 B
1965 WI
17 17
16
15
14
18
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20 20
21
22
23
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29 29
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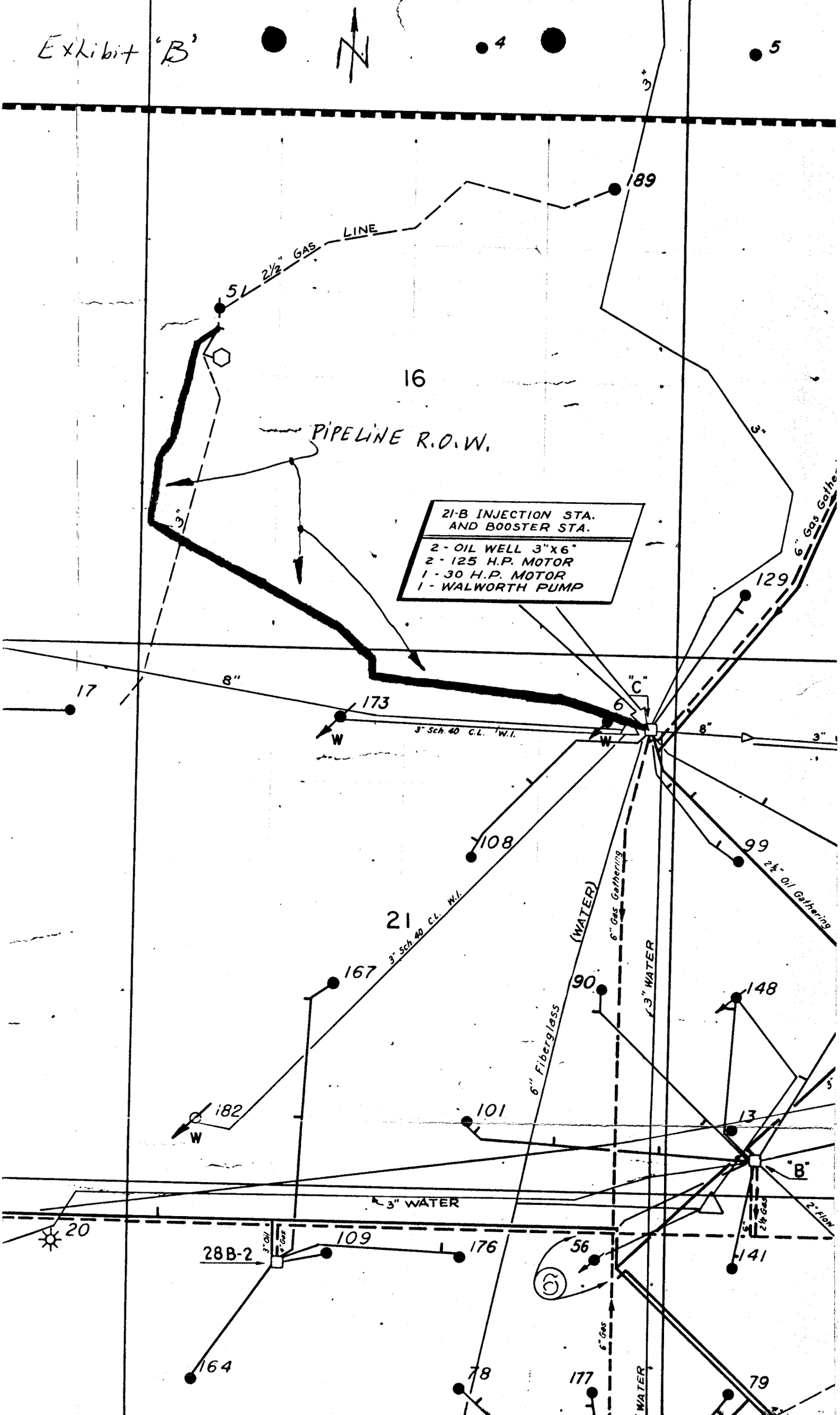
27
26

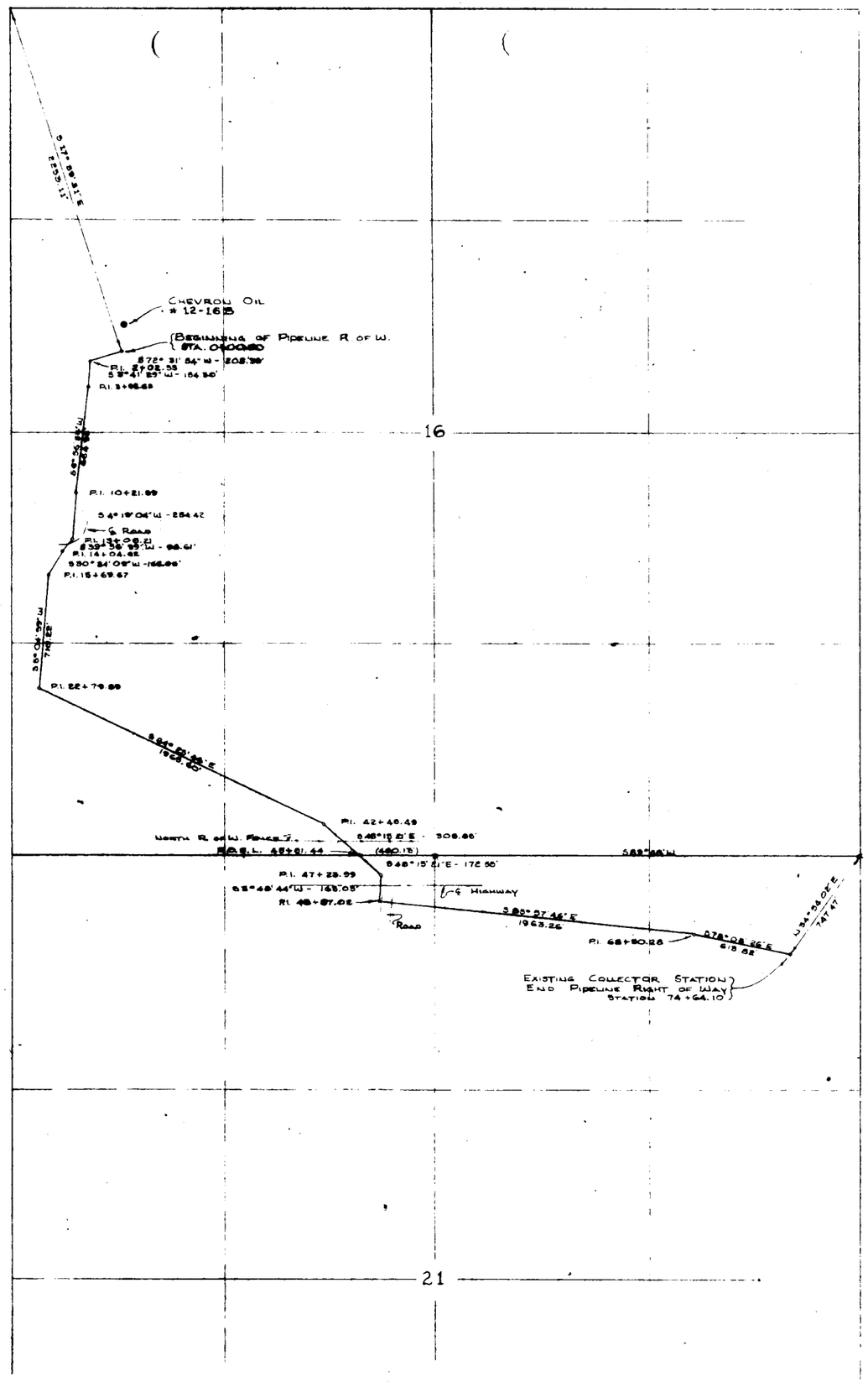
Exhibit 'B'


N
4
5
189
2½" GAS LINE
5
16
PIPELINE R.O.W.
3"
21-B INJECTION STA.
AND BOOSTER STA.
2 - OIL WELL 3"X6"
2 - 125 H.P. MOTOR
1 - 30 H.P. MOTOR
1 - WALWORTH PUMP
6" Gas Gathe
129
8"
17
173
W
3" Sch. 40 C.L. W.I.
"C"
6
W
8"
3"
108
99
2½" Oil Gathering
21
3" Sch. 40 C.L. W.I.
(WATER)
6" Gas Gathering
3" WATER
167
90
148
6" Fiberglass
182
W
101
13
"B"
3" WATER
2" Flow
20
28B-2
3" Oil
Gas
109
176
56
141
6" Gas
164
78
177
WATER
79

CHEVRON OIL COMPANY

FLOWLINE SURVEY FROM WELL LOCATION # 12-16B TO EXISTING COLLECTOR STATION

LOCATED WITHIN THE WEST ½ SECTION 16 & THE NORTH ½ SECTION 21, T7S, R23E, SLB & M, UINTAH COUNTY, UTAH.



SCALE: 1" = 400'
14 NOVEMBER 1977

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Dave Stewart
REGISTERED LAND SURVEYOR
REGISTRATION NO 3167
STATE OF UTAH

REVISIONS	

Uintah Engineering & Land
DRAWER Q
VERNAL, UTAH 84078

SCALE 1" = 400'
DATE 4 NOV 77

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. NAME OF OPERATOR
Chevron USA, 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: 1980' FNL and 735' FWL SW¼NW¼
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
State #77 (ML-3037)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Red Wash

9. WELL NO.
51(12-16B)

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 16, T7S, R23E

12. COUNTY OR PARISH: Uintah
13. STATE: Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
GL 5274.6'.

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[x]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other)		

(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.)*

It is proposed to acidize and perform a scale inhibitor squeeze per attached procedure.

3-State
3-Partners
1-Sec. 723
1-JAH
1-File

No additional surface disturbance required for this activity.

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

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

SIGNED Arlene F. Bush TITLE Engineering Asst. DATE April 22, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

RWU NO. 51 (12-16B)
RED WASH/NORTH CENTRAL AREA

Procedure

1. MIRU.

2. Hot oil casing and tubing. POOH w/rods and pump.

3. ND tree, NU BOPE, test BOPE.

4. POOH w/tubing.

5. Clean out to PBTD (±5,470).

6. Isolate perfs 5,425-5,432 and acidize w/500 gals 15% HCl w/the following Halliburton additives or equivalents:

10 gal/M FE-1A	Iron Sequestering Agent
50 gal/M Parasperse	Paraffin Dispersant
2 gal/M Tri-S	Surfactant
5 gal/M HC-2	Suspending Agent
50#/M Spacer Sperse	Dispersant
2 gal/M HAI-55	Corrosion Inhibitor

7. Displace to bottom perf.

8. Swab back acid (PH = 6).

9. Perform a scale inhibitor squeeze w/the following solutions:

   1 drum T-55 w/9 bbls produced water
   1 drum DP-61 w/100 bbls produced water

   Pump Schedule

   1. Pump 10 bbl DP-61 solution
   2. Pump all T-55 solution
   3. Pump remaining DP-61 solution
   4. Displace to bottom perf

10. Isolate perfs 5,346-5,360 and acidize w/1,000 gal 15% HCl as outlined in Steps 6 and 7.

11. Swab back acid (PH = 6).

12. Perform a scale inhibitor squeeze as in Step 9.

RWU NO. 51 (12-16B)
RED WASH/NORTH CENTRAL AREA

13. Isolate perfs 4,830-4,839 and acidize w/500 gal 15% HCl as in Steps 6 and 7. Note perfs 4,855-4,858 excluded by cement.

14. Swab back acid (PH = 6).

15. Perform a scale inhibitor squeeze as in Step 9.

16. Isolate perfs 4,756-4,763 and acidize w/500 gal 15% HCl as in Steps 6 and 7.

17. Swab back acid (PH = 6).

18. Perform a scale inhibitor squeeze as in Step 9.

19. POOH w/tools.

20. RIH w/production string.

21. ND BOPE, NU tree.

22. RIH w/pump and rods. Place well on production.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 735' FWL SWNW
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
State #77 (ML-3037)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Red Wash

8. FARM OR LEASE NAME

9. WELL NO.
51 (12-16B)

10. FIELD OR WILDCAT NAME
Red Wash

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 16, T7S, R23E

12. COUNTY OR PARISH: Uintah
13. STATE: Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
GL 5274.6'

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[X]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other)		

(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.)*

Well was cleaned out, acidized and a scale inhibitor squeeze performed as follows:

1- POOH w/rods and pump ND tree. NU BOPE.
2- POOH w/tbg. RIH w/bit and casing scraper. Cleaned out to 5463.
3- Acidized well. See attached. A scale inhibitor squeeze was performed on each interval after acidizing.
4- RIH w/ 2-7/8" tbg.
5- ND BOPE. NU tree.
6- RIH w/pump and rods.
7- Turn well to production.

3-BLM
2-State
3-Partners
1-JAH
1-REO
1-LJT
1-Sec. 723
1-File

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

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

SIGNED J. Johnson TITLE Engineering Asst. DATE September 1, 1983

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

WELL NAME RWU 51 (12-16B)

FIELD NAME Red Wash

COMPLETED TREATMENT PROCEDURE

1. Size and type of treatment: A scale inhibitor squeeze consisting of 100 bbls DP-61 solution and 10 bbls T-55 solution was performed on each interval.

2. Intervals treated:

5425-5432	500 gals	15% HCL
5346-5360	1000 gals	15% HCL
4830-4839	500 gals	15% HCL
4756-4763	500 gals	15% HCL

3. Treatment down casing or tubing: tubing

4. Methods used to localize effects: Retrievable bridge plug and packer set to straddle perfs.

5. Disposal of treating fluid: Spent acid was swabbed back to flat tank.

6. Depth to which well was cleaned out: 5463'

7. Date of work: 7/23 - 27/83

8. Company who performed work: Western

9. Production interval: 4756-5432

10. Status and production before treatment:

Date	BOPD	MCFD	BWPD
6/83	11		3

11. Status and production after treatment:

Date	BOPD	MCFD	BWPD
7/30-8/5/83	26		49

WELL NAME: 51(12-16B)

FIELD: Red Wash

PROPOSED TREATMENT PROCEDURE

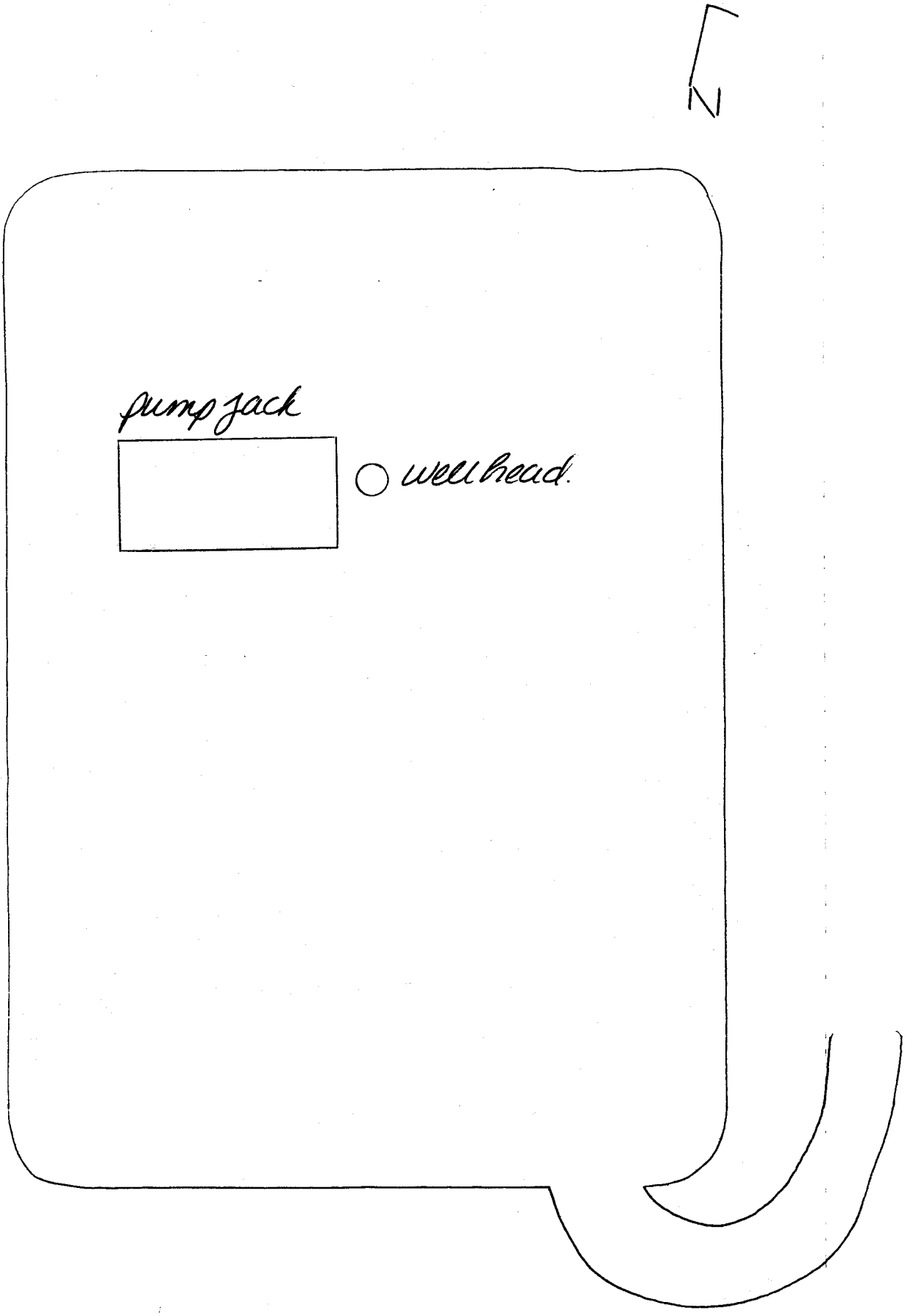
1. Objective: A 10 BOPD increase in production and a cumulative recovery of 3650 BO.
2. Size and type of treatment: 2500 gals 15% HCl
3. Intervals to be treated:

5,425 - 5,432	500 gals
5,346 - 5,360	1000 gals
4,830 - 4,839	500 gals
4,756 - 4,763	500 gals

4. Treatment down casing or tubing: Casing
5. Method of localizing its effects: No Diversion
6. Disposal of treating fluid: Swab spent acid to frac tank
7. Name of company to do work: Halliburton, Dowell or Western
8. Anticipated additional surface disturbances: None
9. Estimated work date: 5-1-83
10. Present status, current production and producing interval:

Date	BOPD	MCFD	BWPD
4/83	±13	±41	±4

Rwd 51 12-16 Sec16, 7S, 23E Ch[illegible]ly 14 Sept 88



December 1990

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Expires September 30, 1990

5. Lease Designation and Serial No.
ML-3037

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 reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

7. If Unit or CA, Agreement Designation
Red Wash

SUBMIT IN TRIPLICATE

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
51 (12-16B)

2. Name of Operator
Chevron U.S.A. Inc.

9. API Well No.
43-047-15177 POW

3. Address and Telephone No.
P.O. Box 599, Denver, CO 80201 (303) 930-3691

10. Field and Pool, or Exploratory Area
Red Wash-Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FNL, 735' FWL
Sec. 16, T7S, R23E

11. County or Parish, State
Uintah, Utah

RECEIVED
DEC 10 1990
DIVISION OF
OIL, GAS & MINING

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other	

(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.)*

The subject well has been returned to production due to the recent increase in oil prices.

3-BLM
3-State
1-JRB/GAP
1-Well file
1-REK
1-Sec. 724R
1-JLW

14. I hereby certify that the foregoing is true and correct
Signed T. J. Rust for J. L. Watson Title Technical Assistant Date 11/15/90

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
RED WASH UNIT
I-SEC NO 761

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area
RED WASH - GREEN RIVER

11. County or Parish, State
UINTAH, UTAH

1. Type of Well
[ ] Oil Well [ ] Gas Well [X] Other MULTIPLE WELLS SEE ATTACHED LIST

2. Name of Operator
CHEVRON U.S.A. INC.

3. Address and Telephone No
11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300

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

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
	[ ] Recompletion	[ ] New Construction
[X] Subsequent Report	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
[ ] Final Abandonment Notice	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other CHANGE OF OPERATOR	[ ] Dispose Water
		(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)

As of January 1, 2000 Chevron U.S.A. INC. resigns as Operator of the Red Wash Unit.
The Unit Number is I-SEC NO 761 effective October 31, 1950.

The successor operator under the Unit Agreement will be
Shenandoah Energy Inc.
475 17th Street, Suite 1000
Denver, CO 80202

Agreed and accepted to this 29th day of December, 1999

Shenandoah Energy Inc.
By: Mitchell L. Solich
Mitchell L. Solich
President

RECEIVED
DEC 30 1999
DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Signed A. E. Wacker A. E. Wacker Title Assistant Secretary Date 12/29/99

(This space for Federal or State office use)

Approved by: Title Date

Conditions of approval, if any

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

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS
2. CDW ✓		5-SJ
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 39 (14-24A)	43-047-15166	5670	24-07S-22E	FEDERAL	OW	TA
RWU 35 (43-13B)	43-047-15162	5670	13-07S-23E	FEDERAL	OW	TA
RWU 36 (32-13B)	43-047-15163	5670	13-07S-23E	FEDERAL	GW	P
RWU 41 (34-13B)	43-047-15168	5670	13-07S-23E	FEDERAL	OW	P
RWU 33 (14-14B)	43-047-15160	5670	14-07S-23E	FEDERAL	GW	S
RWU 51 (12-16B)	43-047-15177	5670	16-07S-23E	STATE	OW	P
RWU 43 (12-17B)	43-047-15170	5670	17-07S-23E	FEDERAL	OW	P
RWU 52 (14-18B)	43-047-15178	5670	18-07S-23E	FEDERAL	OW	TA
RWU 4 (41-22B)	43-047-15137	5670	22-07S-23E	FEDERAL	OW	TA
RWU 38 (14-23B)	43-047-15165	5670	23-07S-23E	FEDERAL	OW	P
RWU 5 (41-23B)	43-047-15138	5670	23-07S-23E	FEDERAL	OW	P
RWU 50 (14-23A)	43-047-15176	5670	23-07S-22E	FEDERAL	OW	P
RWU 40 (21-24B)	43-047-15167	5670	24-07S-23E	FEDERAL	OW	TA
RWU 37 (41-25B)	43-047-15164	5670	25-07S-23E	FEDERAL	GW	PA
RWU 49 (12-29B)	43-047-15175	5670	29-07S-23E	FEDERAL	OW	TA
RWU 313	43-047-32630	5670	20-07S-24E	FEDERAL	GW	PA
RWU 46 (41-21C)	43-047-15173	5670	21-07S-24E	FEDERAL	GW	P
RWU 311	43-047-32628	5670	26-07S-24E	FEDERAL	OW	PA
RWU 314	43-047-32626	5670	29-07S-24E	FEDERAL	GW	PA
RWU 42 (21-29C)	43-047-15169	5670	29-07S-24E	FEDERAL	GW	P
RWU 44 (32-33C)	43-047-15171	5670	33-07S-24E	FEDERAL	GW	P
RWU 312	43-047-32595	5670	34-07S-24E	FEDERAL	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 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:** 09/25/2000

2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 09/25/2000

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.: 159261960

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:

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 17th 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)
[redacted]
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

Well Status Report
Utah State Office
Bureau of Land Management

Lease	Api Number	Well Name	QTR	Section	Township	Range	Well Status	Operator
UTU0559	4304731581	293 (22-22A) RED WAS	SENW	22	T 7S	R22E	OSI	CHEVRON U S A INCORPORATED
UTU02148	4304731582	294 (24-18C) RED WAS	SESW	18	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU081	4304731577	295 (11-22B) RED WAS	NWNW	22	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0566	4304731578	296 (12-35B) RED WAS	SWNW	35	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304731579	297 (24-15B) RED WAS	SESW	15	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0566	4304731679	298 (22-27B) RED WAS	SENW	27	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0116	4304733018	299	SWNE	18	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU082	4304715136	3 (34-23B) RED WASH	SWSE	23	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304715157	30 (23-13B) RED WASH	NESW	13	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304731682	301 (43-15B) RED WAS	NESE	15	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU082	4304731683	302 (22-24B) RED WAS	SENW	24	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0116	4304731819	303 (34-17B) RED WAS	SWSE	17	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0830	4304732538	305	NENE	4	T 8S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU093	4304732629	306	NESW	23	T 7S	R24E	POW	CHEVRON U S A INCORPORATED
~~STATE~~	~~4304732632~~	~~307~~	~~SWSW~~	~~16~~	~~T 7S~~	~~R24E~~	~~ABD~~	~~CHEVRON U S A INCORPORATED~~
~~UTSL071965~~	~~4304732627~~	~~308~~	~~SESW~~	~~28~~	~~T 7S~~	~~R24E~~	~~P+A~~	~~CHEVRON U S A INCORPORATED~~
UTU081	4304715158	31 (34-22B) RED WASH	SWSE	22	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
~~UTSL071965~~	~~4304732628~~	~~311~~	~~NESW~~	~~26~~	~~T 7S~~	~~R24E~~	~~P+A~~	~~CHEVRON U S A INCORPORATED~~
~~UTSL071963~~	~~4304732595~~	~~312~~	~~SWNE~~	~~34~~	~~T 7S~~	~~R24E~~	~~ABD~~	~~CHEVRON U S A INCORPORATED~~
~~UTU02149~~	~~4304732630~~	~~313~~	~~NESW~~	~~20~~	~~T 7S~~	~~R24E~~	~~ABD~~	~~CHEVRON U S A INCORPORATED~~
~~UTSL071965~~	~~4304732626~~	~~314~~	~~SESW~~	~~29~~	~~T 7S~~	~~R24E~~	~~ABD~~	~~CHEVRON U S A INCORPORATED~~
UTU081	4304715160	33 (14-14B) RED WASH	SWSW	14	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU081	4304715161	34 (23-14B) RED WASH	NESW	14	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU081	4304715162	35 (43-13B) RED WASH	NESE	13	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU081	4304715163	36 (32-13B) RED WASH	SWNE	13	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
~~UTU0823~~	~~4304715164~~	~~37 (41-25B) RED WASH~~	~~NENE~~	~~25~~	~~T 7S~~	~~R23E~~	~~ABD~~	~~CHEVRON U S A INCORPORATED~~
UTU082	4304715165	38 (14-23B) RED WASH	SWSW	23	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0561	4304715166	39 (14-24A) RED WASH	SWSW	24	T 7S	R22E	TA	CHEVRON U S A INCORPORATED
UTU081	4304715137	4 (41-22B) RED WASH	NENE	22	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU082	4304715167	40 (21-24B) RED WASH	NENW	24	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304715168	41 (34-13B) RED WASH	SWSE	13	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTSL071965	4304715169	42 (21-29C) RED WASH	NENW	29	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU0116	4304715170	43 (12-17B) RED WASH	SWNW	17	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0829	4304715171	44 (32-33C) RED WASH	SWNE	33	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU02030	4304715172	45 (23-30B) RED WASH	NESW	30	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU080	4304715173	46 (41-21C) RED WASH	NENE	21	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU02030	4304715174	48 (32-19B) RED WASH	SWNE	19	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU02025	4304715175	49 (12-29B) RED WASH	SWNW	29	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU082	4304715138	5 (41-23B) RED WASH	NENE	23	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0559	4304715176	50 (14-23A) RED WASH	SWSW	23	T 7S	R22E	POW	CHEVRON U S A INCORPORATED
STATE	4304715177	51 (12-16B) RED WASH	SWNW	16	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0116	4304715178	52 (14-18B) RED WASH	SWSW	18	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0561	4304715179	53 (41-25A) RED WASH	NENE	25	T 7S	R22E	POW	CHEVRON U S A INCORPORATED
~~UTU0559~~	~~4304715181~~	~~55 (41-21A) RED WASH~~	~~NENE~~	~~21~~	~~T 7S~~	~~R22E~~	~~P+A~~	~~CHEVRON U S A INCORPORATED~~
UTU02030	4304715182	56 (41-28B) RED WASH	NENE	28	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU02148	4304715183	57 (12-18C) RED WASH	SWNW	18	T 7S	R24E	POW	CHEVRON U S A INCORPORATED
UTU082	4304716477	59 (12-24B) RED WASH	SWNW	24	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU0567	4304716482	6 (41-21B) RED WASH	NENE	21	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU02025	4304715184	60 (43-30B) RED WASH	NESE	30	T 7S	R23E	TA	CHEVRON U S A INCORPORATED

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent/Operator

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **2/1/2003**

FROM: (Old Operator):	**TO:** (New Operator):
N4235-Shenandoah Energy Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341	N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341

CA No. **Unit:** **RED WASH**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confid
RWU 94 (12-22A)	22	070S	220E	4304715213	5670	Federal	OW	P	
RWU 83 (41-27A)	27	070S	220E	4304715205	5670	Federal	OW	P	
RWU 84 (44-14B)	14	070S	230E	4304715206	5670	Federal	GW	P	
RWU 90 (43-21B)	21	070S	230E	4304715211	5670	Federal	OW	P	
RWU 99 (12-22B)	22	070S	230E	4304715218	5670	Federal	OW	P	
RWU 9 (43-23B)	23	070S	230E	4304715140	5670	Federal	OW	P	
RWU 92 (11-23B)	23	070S	230E	4304715212	5670	Federal	OW	TA	
RWU 81 (41-31B)	31	070S	230E	4304715203	5670	Federal	OW	P	
RED WASH UNIT 259	16	070S	230E	4304732785	5670	State	OW	P	
RED WASH UNIT 260	16	070S	230E	4304732786	5670	State	OW	P	
RWU 51 (12-16B)	**16**	**070S**	**230E**	**4304715177**	5670	State	OW	P	
RWU ST 189 (41-16B)	16	070S	230E	4304715292	5670	State	OW	P	

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/2/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/2/2003
3. **The new company was checked on the Department of Commerce, Division of Corporations Database on:** 6/19/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 5292864-0151
5. If **NO**, the operator was contacted contacted on: ____

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **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: 7/21/2003

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** 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:** 8/28/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 8/28/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965-003-032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 799446

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033

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

LEASE INTEREST OWNER NOTIFICATION:

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: n/a

COMMENTS:

QUESTAR

Questar Exploration and Production Company
Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265
Tel 303 672 6900 • Fax 303 294 9632

Denver Division

May 28, 2003

Division of Oil, Gas, & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Attention: John Baza/Jim Thompson

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,

Frank Nielsen
Division Landman

Enclosure

RECEIVED
JUN 02 2003
DIV. OF OIL, GAS & MINING

SEI (N4235) to QEP (N2460) RED WASH UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
RED WASH 22-21B	21	070S	230E	4304733522	5670	Federal	OW	TA	
RED WASH 24-20B	20	070S	230E	4304733523	5670	Federal	OW	P	
RED WASH 305 (41-4F)	04	080S	240E	4304732538	5670	Federal	GW	TA	
RED WASH 306	23	070S	240E	4304732629	5670	Federal	GW	P	
RED WASH 44-19B	19	070S	230E	4304733524	5670	Federal	OW	P	
RED WASH 44-20B	20	070S	230E	4304733525	5670	Federal	OW	P	
RWU 1 (41-26B)	26	070S	230E	4304715135	5670	Federal	OW	TA	
RWU 10 (12-23B)	23	070S	230E	4304715141	5670	Federal	OW	TA	
RWU 101 (34-21B)	21	070S	230E	4304715220	5670	Federal	OW	P	
RWU 103 (34-15B)	15	070S	230E	4304715222	5670	Federal	OW	P	
RWU 108 (32-21B)	21	070S	230E	4304715226	5670	Federal	OW	P	
RWU 109 (21-28B)	28	070S	230E	4304715227	5670	Federal	OW	P	
RWU 110 (23-23A)	23	070S	220E	4304715228	5670	Federal	OW	P	
RWU 111 (32-24A)	24	070S	220E	4304715229	5670	Federal	OW	TA	
RWU 112 (32-28A)	28	070S	220E	4304715230	5670	Federal	OW	P	
RWU 115 (21-19B)	19	070S	230E	4304715233	5670	Federal	OW	P	
RWU 119 (43-29A)	29	070S	220E	4304715236	5670	Federal	OW	P	
RWU 120 (23-28B)	28	070S	230E	4304715237	5670	Federal	OW	TA	
RWU 121 (13-13B)	13	070S	230E	4304715238	5670	Federal	GW	P	
RWU 122 (24-14B)	14	070S	230E	4304715239	5670	Federal	OW	P	
RWU 125 (34-19B)	19	070S	230E	4304715242	5670	Federal	OW	TA	
RWU 126 (41-29A)	29	070S	220E	4304715243	5670	Federal	OW	P	
RWU 127 (12-19B)	19	070S	230E	4304715244	5670	Federal	OW	TA	
RWU 129 (14-15B)	15	070S	230E	4304715246	5670	Federal	OW	P	
RWU 13 (14-22B)	22	070S	230E	4304715143	5670	Federal	OW	TA	
RWU 133 (41-34B)	34	070S	230E	4304715250	5670	Federal	OW	P	
RWU 136 (43-19B)	19	070S	230E	4304715252	5670	Federal	OW	TA	
RWU 137 (34-28B)	28	070S	230E	4304715253	5670	Federal	GW	TA	
RWU 138 (41-30B)	30	070S	230E	4304715254	5670	Federal	OW	P	
RWU 140 (24-22B)	22	070S	230E	4304715255	5670	Federal	OW	P	
RWU 141 (11-27B)	27	070S	230E	4304715256	5670	Federal	OW	TA	
RWU 143 (33-14B)	14	070S	230E	4304715257	5670	Federal	OW	P	
RWU 144 (21-18B)	18	070S	230E	4304715258	5670	Federal	OW	TA	
RWU 145 (24-13B)	13	070S	230E	4304715259	5670	Federal	OW	TA	
RWU 147 (22-22B)	22	070S	230E	4304715260	5670	Federal	OW	TA	
RWU 15 (32-17C)	17	070S	240E	4304715145	5670	Federal	OW	P	
RWU 151 (42-14B)	14	070S	230E	4304715264	5670	Federal	OW	P	
RWU 153 (14-29B)	29	070S	230E	4304715265	5670	Federal	OW	P	
RWU 158 (32-30B)	30	070S	230E	4304715268	5670	Federal	OW	P	
RWU 160 (32-15B)	15	070S	230E	4304715270	5670	Federal	OW	P	
RWU 162 (12-20B)	20	070S	230E	4304715272	5670	Federal	OW	TA	
RWU 164 (12-28B)	28	070S	230E	4304715274	5670	Federal	OW	P	
RWU 165 (32-26B)	26	070S	230E	4304715275	5670	Federal	GW	TA	
RWU 167 (23-21B)	21	070S	230E	4304715277	5670	Federal	OW	S	
RWU 168 (23-24B)	24	070S	230E	4304715278	5670	Federal	OW	TA	
RWU 172 (21-30B)	30	070S	230E	4304715280	5670	Federal	OW	TA	
RWU 176 (31-28B)	28	070S	230E	4304715283	5670	Federal	OW	TA	
RWU 177 (42-28B)	28	070S	230E	4304715284	5670	Federal	OW	TA	
RWU 178 (22-13B)	13	070S	230E	4304715285	5670	Federal	OW	TA	
RWU 180 (31-23B)	23	070S	230E	4304715287	5670	Federal	OW	TA	
RWU 181 (34-30B)	30	070S	230E	4304715288	5670	Federal	OW	P	
RWU 184 (23-26B)	26	070S	230E	4304715290	5670	Federal	OW	TA	
RWU 188 (23-20B)	20	070S	230E	4304715291	5670	Federal	OW	TA	
RWU 19 (34-26B)	26	070S	230E	4304715148	5670	Federal	GW	TA	
RWU 192 (41-33A)	33	070S	220E	4304715294	5670	Federal	OW	P	
RWU 193 (43-24B)	24	070S	230E	4304715295	5670	Federal	GW	S	
RWU 194 (12-14B)	14	070S	230E	4304715296	5670	Federal	OW	S	
RWU 196 (23-17C)	17	070S	240E	4304715298	5670	Federal	GW	S	
RWU 201 (32-28C)	28	070S	240E	4304715302	5670	Federal	GW	P	
RWU 204 (23-25A)	25	070S	220E	4304715305	5670	Federal	OW	P	
RWU 205 (23-21C)	21	070S	240E	4304715306	5670	Federal	GW	TA	
RWU 207	17	070S	230E	4304732738	5670	Federal	OW	P	
RWU 21 (32-14B)	14	070S	230E	4304715150	5670	Federal	OW	P	
RWU 212 (41-8F)	08	080S	240E	4304720014	5670	Federal	GW	P	
RWU 21-24A	24	070S	220E	4304733592	5670	Federal	OW	P	

well_name	Sec	T	R	api	Entity	Lease Type	type	stat
RWU 21-25A	25	070S	220E	4304733576	5670	Federal	OW	P
RWU 219 (44-21C)	21	070S	240E	4304730149	5670	Federal	GW	P
RWU 220 (22-23B)	23	070S	230E	4304730192	5670	Federal	OW	TA
RWU 221 (13-27B)	27	070S	230E	4304730199	5670	Federal	OW	TA
RWU 22-13A	13	070S	220E	4304733765	5670	Federal	OW	S
RWU 22-19B	19	070S	230E	4304733559	5670	Federal	OW	P
RWU 222 (31-27B)	27	070S	230E	4304730200	5670	Federal	GW	TA
RWU 22-20B	20	070S	230E	4304733491	5670	Federal	OW	P
RWU 22-25A	25	070S	220E	4304733786	5670	Federal	OW	P
RWU 22-29B	29	070S	230E	4304733766	5670	Federal	OW	S
RWU 224 (44-22B)	22	070S	230E	4304730202	5670	Federal	GW	TA
RWU 225 (13-23B)	23	070S	230E	4304730212	5670	Federal	GW	TA
RWU 226 (24-23B)	23	070S	230E	4304730249	5670	Federal	GW	S
RWU 227 (14-26B)	26	070S	230E	4304730257	5670	Federal	OW	TA
RWU 228 (21-34B)	34	070S	230E	4304730258	5670	Federal	OW	P
RWU 229 (43-26B)	26	070S	230E	4304730259	5670	Federal	OW	TA
RWU 230 (14-18C)	18	070S	240E	4304730309	5670	Federal	OW	TA
RWU 231 (21-35B)	35	070S	230E	4304730310	5670	Federal	OW	TA
RWU 232 (12-26B)	26	070S	230E	4304730311	5670	Federal	OW	TA
RWU 23-24A	24	070S	220E	4304733567	5670	Federal	OW	P
RWU 233 (12-25B)	25	070S	230E	4304730312	5670	Federal	OW	TA
RWU 234 (32-24B)	24	070S	230E	4304730313	5670	Federal	OW	P
RWU 235 (34-18C)	18	070S	240E	4304730314	5670	Federal	OW	P
RWU 236 (21-19C)	19	070S	240E	4304730340	5670	Federal	GW	P
RWU 237 (14-25B)	25	070S	230E	4304730341	5670	Federal	OW	P
RWU 238 (32-35B)	35	070S	230E	4304730342	5670	Federal	OW	TA
RWU 239 (41-35B)	35	070S	230E	4304730343	5670	Federal	OW	TA
RWU 24 (34-14B)	14	070S	230E	4304715152	5670	Federal	OW	P
RWU 240 (12-36B)	36	070S	230E	4304730344	5670	Federal	OW	P
RWU 241 (22-14B)	14	070S	230E	4304730345	5670	Federal	OW	P
RWU 24-18B	18	070S	230E	4304733554	5670	Federal	OW	P
RWU 24-19B	19	070S	230E	4304733492	5670	Federal	OW	P
RWU 242 (42-13B)	13	070S	230E	4304730346	5670	Federal	OW	P
RWU 243 (42-18C)	18	070S	240E	4304730347	5670	Federal	OW	TA
RWU 244 (23-19C)	19	070S	240E	4304730348	5670	Federal	GW	P
RWU 246 (22-18C)	18	070S	240E	4304730387	5670	Federal	OW	P
RWU 247 (22-17C)	17	070S	240E	4304730388	5670	Federal	GW	P
RWU 26 (23-22B)	22	070S	230E	4304715153	5670	Federal	OW	TA
RWU 262 (22-26B)	26	070S	230E	4304730517	5670	Federal	GW	TA
RWU 265 (44-26B)	26	070S	230E	4304730520	5670	Federal	GW	P
RWU 267 (32-17B)	17	070S	230E	4304732981	5670	Federal	OW	P
RWU 27 (43-14B)	14	070S	230E	4304715154	5670	Federal	OW	TA
RWU 270 (22-35B)	35	070S	230E	4304731082	5670	Federal	OW	P
RWU 272 (44-23B)	23	070S	230E	4304731054	5670	Federal	GW	P
RWU 273 (42-27B)	27	070S	230E	4304731051	5670	Federal	OW	TA
RWU 276 (44-27B)	27	070S	230E	4304731053	5670	Federal	OW	TA
RWU 278 (11-26)	26	070S	230E	4304731076	5670	Federal	GW	TA
RWU 28 (43-22B)	22	070S	230E	4304715155	5670	Federal	OW	P
RWU 280 (11-35B)	35	070S	230E	4304731079	5670	Federal	OW	P
RWU 282 (42-26B)	26	070S	230E	4304731080	5670	Federal	GW	TA
RWU 284 (33-23B)	23	070S	230E	4304731476	5670	Federal	GW	TA
RWU 285 (11-24B)	24	070S	230E	4304731477	5670	Federal	OW	P
RWU 286 (42-21B)	21	070S	230E	4304731478	5670	Federal	OW	P
RWU 287 (44-13B)	13	070S	230E	4304731512	5670	Federal	OW	TA
RWU 288 (24-27)	27	070S	230E	4304731513	5670	Federal	OW	TA
RWU 289 (13-24B)	24	070S	230E	4304731517	5670	Federal	OW	P
RWU 29 (32-23B)	23	070S	230E	4304715156	5670	Federal	OW	P
RWU 292 (42-23B)	23	070S	230E	4304731576	5670	Federal	GW	TA
RWU 293 (22-22A)	22	070S	220E	4304731581	5670	Federal	OW	TA
RWU 294 (24-18C)	18	070S	240E	4304731582	5670	Federal	GW	P
RWU 295 (11-22B)	22	070S	230E	4304731577	5670	Federal	GW	TA
RWU 296 (12-35B)	35	070S	230E	4304731578	5670	Federal	OW	P
RWU 297 (24-15B)	15	070S	230E	4304731579	5670	Federal	OW	P
RWU 298 (22-27B)	27	070S	230E	4304731679	5670	Federal	OW	TA
RWU 299 (32-18B)	18	070S	230E	4304733018	5670	Federal	OW	P

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
RWU 3 (34-23B)	23	070S	230E	4304715136	5670	Federal	OW	P	
RWU 30 (23-13B)	13	070S	230E	4304715157	5670	Federal	GW	TA	
RWU 301 (43-15B)	15	070S	230E	4304731682	5670	Federal	GW	S	
RWU 302 (22-24B)	24	070S	230E	4304731683	5670	Federal	GW	TA	
RWU 303 (34-17B)	17	070S	230E	4304731819	5670	Federal	OW	P	
RWU 31 (34-22B)	22	070S	230E	4304715158	5670	Federal	OW	P	
RWU 33 (14-14B)	14	070S	230E	4304715160	5670	Federal	GW	TA	
RWU 35 (43-13B)	13	070S	230E	4304715162	5670	Federal	OW	TA	
RWU 36 (32-13B)	13	070S	230E	4304715163	5670	Federal	GW	P	
RWU 38 (14-23B)	23	070S	230E	4304715165	5670	Federal	OW	P	
RWU 39 (14-24A)	24	070S	220E	4304715166	5670	Federal	OW	TA	
RWU 4 (41-22B)	22	070S	230E	4304715137	5670	Federal	OW	TA	
RWU 40 (21-24B)	24	070S	230E	4304715167	5670	Federal	OW	TA	
RWU 41 (34-13B)	13	070S	230E	4304715168	5670	Federal	OW	P	
RWU 41-24A	24	070S	220E	4304733769	5670	Federal	OW	P	
RWU 41-25A	25	070S	220E	4304733579	5670	Federal	OW	P	
RWU 42 (21-29C)	29	070S	240E	4304715169	5670	Federal	GW	P	
RWU 42-19B	19	070S	230E	4304733556	5670	Federal	OW	P	
RWU 42-20B	20	070S	230E	4304733490	5670	Federal	OW	P	
RWU 42-24A	24	070S	220E	4304733569	5670	Federal	OW	P	
RWU 42-25A	25	070S	220E	4304733580	5670	Federal	OW	S	
RWU 42-30B	30	070S	230E	4304733771	5670	Federal	OW	P	
RWU 43 (12-17B)	17	070S	230E	4304715170	5670	Federal	OW	P	
RWU 44 (32-33C)	33	070S	240E	4304715171	5670	Federal	GW	P	
RWU 44-18B	18	070S	230E	4304733594	5670	Federal	OW	P	
RWU 44-30B	30	070S	230E	4304733772	5670	Federal	OW	P	
RWU 45 (23-30B)	30	070S	230E	4304715172	5670	Federal	OW	TA	
RWU 46 (41-21C)	21	070S	240E	4304715173	5670	Federal	GW	TA	
RWU 49 (12-29B)	29	070S	230E	4304715175	5670	Federal	OW	TA	
RWU 5 (41-23B)	23	070S	230E	4304715138	5670	Federal	OW	P	
RWU 50 (14-23A)	23	070S	220E	4304715176	5670	Federal	OW	P	
RWU 52 (14-18B)	18	070S	230E	4304715178	5670	Federal	OW	TA	
RWU 53 (41-25A)	25	070S	220E	4304715179	5670	Federal	OW	TA	
RWU 57 (12-18C)	18	070S	240E	4304715183	5670	Federal	OW	P	
RWU 63 (21-22B)	22	070S	230E	4304715186	5670	Federal	GW	TA	
RWU 64 (32-27B)	27	070S	230E	4304715187	5670	Federal	OW	TA	
RWU 66 (34-18B)	18	070S	230E	4304715189	5670	Federal	OW	P	
RWU 67 (42-22B)	22	070S	230E	4304715190	5670	Federal	OW	TA	
RWU 69 (21-27B)	27	070S	230E	4304715191	5670	Federal	OW	TA	
RWU 70 (23-22A)	22	070S	220E	4304715192	5670	Federal	OW	P	
RWU 71 (21-18C)	18	070S	240E	4304715193	5670	Federal	OW	P	
RWU 72 (23-27B)	27	070S	230E	4304715194	5670	Federal	OW	TA	
RWU 74 (12-13B)	13	070S	230E	4304715196	5670	Federal	GW	P	
RWU 75 (21-26B)	26	070S	230E	4304715197	5670	Federal	OW	TA	
RWU 76 (32-18C)	18	070S	240E	4304715198	5670	Federal	GW	S	
RWU 77 (21-13B)	13	070S	230E	4304715199	5670	Federal	OW	P	
RWU 78 (32-28B)	28	070S	230E	4304715200	5670	Federal	OW	P	
RWU 79 (12-27B)	27	070S	230E	4304715201	5670	Federal	OW	TA	
RWU 8 (32-22B)	22	070S	230E	4304715139	5670	Federal	OW	P	
RWU 80 (14-27B)	27	070S	230E	4304715202	5670	Federal	OW	P	
RWU 81 (41-31B)	31	070S	230E	4304715203	5670	Federal	OW	P	
RWU 83 (41-27A)	27	070S	220E	4304715205	5670	Federal	OW	P	
RWU 84 (44-14B)	14	070S	230E	4304715206	5670	Federal	GW	P	
RWU 9 (43-23B)	23	070S	230E	4304715140	5670	Federal	OW	P	
RWU 90 (43-21B)	21	070S	230E	4304715211	5670	Federal	OW	P	
RWU 92 (11-23B)	23	070S	230E	4304715212	5670	Federal	OW	TA	
RWU 94 (12-22A)	22	070S	220E	4304715213	5670	Federal	OW	P	
RWU 99 (12-22B)	22	070S	230E	4304715218	5670	Federal	OW	P	
RED WASH UNIT 259	16	070S	230E	4304732785	5670	State	OW	P	
RED WASH UNIT 260	16	070S	230E	4304732786	5670	State	OW	P	
RWU 51 (12-16B)	16	070S	230E	4304715177	5670	State	OW	P	
RWU ST 189 (41-16B)	16	070S	230E	4304715292	5670	State	OW	P	
RED WASH UNIT 261	17	070S	230E	4304732739	5670	Federal	WI	A	
RWU 100-A (43-21A)	21	070S	220E	4304715219	5670	Federal	WI	A	

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
RWU 102 (41-24A)	24	070S	220E	4304715221	5670	Federal	WI	A	
RWU 11	27	070S	230E	4304715142	5670	Federal	WI	A	
RWU 11-19B	19	070S	230E	4304733552	5670	Federal	WI	A	
RWU 11-20B	20	070S	230E	4304733553	5670	Federal	WI	A	
RWU 11-25A	25	070S	220E	4304733574	5670	Federal	WI	A	
RWU 11-29B	29	070S	230E	4304733590	5670	Federal	WI	A	
RWU 11-30B	30	070S	230E	4304733785	5670	Federal	WI	A	
RWU 12-24A	24	070S	220E	4304733591	5670	Federal	WI	A	
RWU 13-19B	19	070S	230E	4304733497	5670	Federal	WI	A	
RWU 13-20B	20	070S	230E	4304733498	5670	Federal	WI	A	
RWU 13-25A	25	070S	220E	4304733575	5670	Federal	WI	A	
RWU 14 (14-13B)	13	070S	230E	4304715144	5670	Federal	WI	A	
RWU 148 (13-22B)	22	070S	230E	4304715261	5670	Federal	WI	A	
RWU 150 (31-22B)	22	070S	230E	4304715263	5670	Federal	WI	I	
RWU 156 (23-15B)	15	070S	230E	4304715267	5670	Federal	WI	A	
RWU 16 (43-28B)	28	070S	230E	4304716475	5670	Federal	WI	I	
RWU 161 (14-20B)	20	070S	230E	4304715271	5670	Federal	WI	I	
RWU 17 (41-20B)	20	070S	230E	4304715146	5670	Federal	WI	A	
RWU 170 (41-15B)	15	070S	230E	4304716495	5670	Federal	WI	I	
RWU 173 (21-21B)	21	070S	230E	4304716496	5670	Federal	WI	A	
RWU 174 (21-20B)	20	070S	230E	4304715281	5670	Federal	WI	A	
RWU 182 (14-21B)	21	070S	230E	4304716497	5670	Federal	WI	A	
RWU 183 (33-13B)	13	070S	230E	4304715289	5670	Federal	WI	A	
RWU 185 (41-1B)	14	070S	230E	4304716498	5670	Federal	WI	A	
RWU 199 (43-22A)	22	070S	220E	4304715301	5670	Federal	WI	A	
RWU 2 (14-24B)	24	070S	230E	4304716472	5670	Federal	WI	A	
RWU 202 (21-34A)	34	070S	220E	4304715303	5670	Federal	WI	I	
RWU 213 (41-33B)	33	070S	230E	4304720060	5670	Federal	WD	A	
RWU 215 (43-28A)	28	070S	220E	4304730058	5670	Federal	WI	A	
RWU 216 (21-27A)	27	070S	220E	4304730103	5670	Federal	WI	A	
RWU 23 (21-23B)	23	070S	230E	4304715151	5670	Federal	WI	A	
RWU 23-18C (97)	18	070S	240E	4304715216	5670	Federal	WI	I	
RWU 25 (23-23B)	23	070S	230E	4304716476	5670	Federal	WI	A	
RWU 258 (34-22A)	22	070S	220E	4304730458	5670	Federal	WI	A	
RWU 263 (24-26B)	26	070S	230E	4304730518	5670	Federal	WI	I	
RWU 264 (31-35B)	35	070S	230E	4304730519	5670	Federal	WI	A	
RWU 266 (33-26B)	26	070S	230E	4304730521	5670	Federal	WI	I	
RWU 268 (43-17B)	17	070S	230E	4304732980	5670	Federal	WI	A	
RWU 269 (13-26B)	26	070S	230E	4304730522	5670	Federal	WI	I	
RWU 271 (42-35B)	35	070S	230E	4304731081	5670	Federal	WI	I	
RWU 275 (31-26B)	26	070S	230E	4304731077	5670	Federal	WI	A	
RWU 279 (11-36B)	36	070S	230E	4304731052	5670	Federal	WI	A	
RWU 283 (43-18B)	18	070S	230E	4304732982	5670	Federal	WI	A	
RWU 31-19B	19	070S	230E	4304733555	5670	Federal	WI	A	
RWU 31-25A	25	070S	220E	4304733577	5670	Federal	WI	A	
RWU 31-30B	30	070S	230E	4304733788	5670	Federal	WI	A	
RWU 33-19B	19	070S	230E	4304733499	5670	Federal	WI	A	
RWU 33-20B	20	070S	230E	4304733500	5670	Federal	WI	A	
RWU 33-25A	25	070S	220E	4304733578	5670	Federal	WI	A	
RWU 33-30B	30	070S	230E	4304733790	5670	Federal	WI	A	
RWU 34 (23-14B)	14	070S	230E	4304715161	5670	Federal	WI	A	
RWU 34-13A	13	070S	220E	4304733593	5670	Federal	WI	A	
RWU 34-24A	24	070S	220E	4304733568	5670	Federal	WI	A	
RWU 48 (32-19B)	19	070S	230E	4304715174	5670	Federal	WI	I	
RWU 56 (41-28B)	28	070S	230E	4304715182	5670	Federal	WI	A	
RWU 59 (12-24B)	24	070S	230E	4304716477	5670	Federal	WI	A	
RWU 6 (41-21B)	21	070S	230E	4304716482	5670	Federal	WI	A	
RWU 61 (12-27A)	27	070S	220E	4304716478	5670	Federal	WI	I	
RWU 68 (41-13B)	13	070S	230E	4304716485	5670	Federal	WI	I	
RWU 7 (41-27B)	27	070S	230E	4304716473	5670	Federal	WI	I	
RWU 88 (23-18B)	18	070S	230E	4304715210	5670	Federal	WI	A	
RWU 91 (33-22B)	22	070S	230E	4304716479	5670	Federal	WI	A	
RWU 93 (43-27B)	27	070S	230E	4304716480	5670	Federal	WI	I	
RWU 324 (23-16B)	16	070S	230E	4304733084	5670	State	WI	I	

United States Department of the Interior

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

IN REPLY REFER TO
UT-922

June 9, 2003

QEP Uinta Basin, Inc.
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Red Wash Unit
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed it name and QEP Uinta Basin, 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 June 9, 2003. 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 Red Wash Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Red Wash Unit.

It is requested that you notify all interested parties of the name change of 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: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Minerals Adjudication Group
File – Red Wash Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron
UT922:TAThompson:tt:6/9/03

JUL 0 7 2003

3104 (932.34)WF
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc. 1050 17th Street Suite 500 Denver, Colorado 80265	: : : :	Oil and Gas lease

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

S/Wilbert B. Forbes

Wilbert B. Forbes
Land Law Examiner
Branch of Use Authorization
Division of Resources Planning,
Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Unita Basin
MFO

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold) **X - Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective: **1/1/2007**

FROM: (Old Operator):	**TO:** (New Operator):
N2460-QEP Uinta Basin, Inc.	N5085-Questar E&P Company
1050 17th St, Suite 500	1050 17th St, Suite 500
Denver, CO 80265	Denver, CO 80265
Phone: 1 (303) 672-6900	Phone: 1 (303) 672-6900

CA No. **Unit:** **RED WASH UNIT**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LISTS				*				

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 1/31/2005

4a. Is the new operator registered in the State of Utah: Business Number: 764611-0143

5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

5b. Inspections of LA PA state/fee well sites complete on: n/a

5c. Reports current for Production/Disposition & Sundries on: n/a

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: BLM 4/23/2007 BIA
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on:
9. **Underground Injection Control ("UIC")** 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:

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 4/30/2007 and 5/15/2007
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 4/30/2007 and 5/15/2007
3. Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
4. Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
5. Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024
2. Indian well(s) covered by Bond Number: 799446

3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033

3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** 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: n/a

COMMENTS: THIS IS A COMPANY NAME CHANGE.
SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 1 (41-26B)	RW 41-26B	NENE	26	070S	230E	4304715135	5670	Federal	OW	TA
RWU 3 (34-23B)	RW 34-23B	SWSE	23	070S	230E	4304715136	5670	Federal	OW	P
RWU 4 (41-22B)	RW 41-22B	NENE	22	070S	230E	4304715137	5670	Federal	OW	TA
RWU 5 (41-23B)	RW 41-23B	NENE	23	070S	230E	4304715138	5670	Federal	OW	P
RWU 8 (32-22B)	RW 32-22B	SWNE	22	070S	230E	4304715139	5670	Federal	OW	P
RWU 9 (43-23B)	RW 43-23B	NESE	23	070S	230E	4304715140	5670	Federal	OW	P
RWU 10 (12-23B)	RW 12-23B	SWNW	23	070S	230E	4304715141	5670	Federal	OW	TA
RWU 11	RW 34-27B	SWSE	27	070S	230E	4304715142	99996	Federal	WI	A
RWU 13 (14-22B)	RW 14-22B	SWSW	22	070S	230E	4304715143	5670	Federal	OW	TA
RW 14-13B	RW 14-13B	SWSW	13	070S	230E	4304715144	99996	Federal	WI	A
RWU 15 (32-17C)	RW 32-17C	SWNE	17	070S	240E	4304715145	5670	Federal	OW	P
RWU 17 (41-20B)	RW 41-20B	NENE	20	070S	230E	4304715146	5670	Federal	WI	A
RWU 19 (34-26B)	RW 34-26B	SWSE	26	070S	230E	4304715148	5670	Federal	GW	S
RWU 21 (32-14B)	RW 32-14B	SWNE	14	070S	230E	4304715150	5670	Federal	OW	P
RWU 23 (21-23B)	RW 21-23B	SENW	23	070S	230E	4304715151	99996	Federal	WI	A
RWU 24 (34-14B)	RW 34-14B	SWSE	14	070S	230E	4304715152	5670	Federal	OW	S
RWU 26 (23-22B)	RW 23-22B	NESW	22	070S	230E	4304715153	5670	Federal	OW	TA
RWU 27 (43-14B)	RW 43-14B	NESE	14	070S	230E	4304715154	5670	Federal	OW	TA
RWU 28 (43-22B)	RW 43-22B	NESE	22	070S	230E	4304715155	5670	Federal	OW	P
RWU 29 (32-23B)	RW 32-23B	SWNE	23	070S	230E	4304715156	5670	Federal	OW	P
RW 23-13B	RW 23-13B	NESW	13	070S	230E	4304715157	5670	Federal	GW	TA
RWU 31 (34-22B)	RW 34-22B	SWSE	22	070S	230E	4304715158	5670	Federal	OW	P
RWU 33 (14-14B)	RW 14-14B	SWSW	14	070S	230E	4304715160	5670	Federal	GW	TA
RWU 34 (23-14B)	RW 23-14B	NESW	14	070S	230E	4304715161	99996	Federal	WI	A
RW 43-13B	RW 43-13B	NESE	13	070S	230E	4304715162	5670	Federal	OW	TA
RWU 36 (32-13B)	RW 32-13B	SWNE	13	070S	230E	4304715163	5670	Federal	GW	P
RWU 38 (14-23B)	RW 14-23B	SWSW	23	070S	230E	4304715165	5670	Federal	OW	P
RWU 39 (14-24A)	RW 14-24A	SWSW	24	070S	220E	4304715166	5670	Federal	OW	TA
RWU 40 (21-24B)	RW 21-24B	NENW	24	070S	230E	4304715167	5670	Federal	OW	TA
RWU 41 (34-13B)	RW 34-13B	SWSE	13	070S	230E	4304715168	5670	Federal	OW	P
RWU 42 (21-29C)	RW 21-29C	NENW	29	070S	240E	4304715169	5670	Federal	GW	P
RWU 43 (12-17B)	RW 12-17B	SWNW	17	070S	230E	4304715170	5670	Federal	OW	P
RWU 44 (32-33C)	RW 32-33C	SWNE	33	070S	240E	4304715171	5670	Federal	GW	P
RWU 45 (23-30B)	RW 23-30B	NESW	30	070S	230E	4304715172	5670	Federal	OW	TA
RWU 46 (41-21C)	RW 41-21C	NENE	21	070S	240E	4304715173	5670	Federal	GW	TA
RWU 48 (32-19B)	RW 32-19B	SWNE	19	070S	230E	4304715174	99996	Federal	WI	I
RWU 49 (12-29B)	RW 12-29B	SWNW	29	070S	230E	4304715175	5670	Federal	OW	TA
RWU 50 (14-23A)	RW 14-23A	SWSW	23	070S	220E	4304715176	5670	Federal	OW	P
RWU 52 (14-18B)	RW 14-18B	SWSW	18	070S	230E	4304715178	5670	Federal	OW	TA
RWU 53 (41-25A)	RW 41-25A	NENE	25	070S	220E	4304715179	5670	Federal	OW	TA
RWU 56 (41-28B)	RW 41-28B	NENE	28	070S	230E	4304715182	99996	Federal	WI	A

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 57 (12-18C)	RW 12-18C	SWNW	18	070S	240E	4304715183	5670	Federal	OW	P
RWU 63 (21-22B)	RW 21-22B	NENW	22	070S	230E	4304715186	5670	Federal	GW	TA
RWU 64 (32-27B)	RW 32-27B	SWNE	27	070S	230E	4304715187	5670	Federal	OW	TA
RWU 66 (34-18B)	RW 34-18B	SWSE	18	070S	230E	4304715189	5670	Federal	OW	P
RWU 67 (42-22B)	RW 42-22B	SENE	22	070S	230E	4304715190	5670	Federal	OW	TA
RWU 69 (21-27B)	RW 21-27B	NENW	27	070S	230E	4304715191	5670	Federal	OW	TA
RWU 70 (23-22A)	RW 23-22A	NESW	22	070S	220E	4304715192	5670	Federal	OW	P
RWU 71 (21-18C)	RW 21-18C	NENW	18	070S	240E	4304715193	5670	Federal	OW	P
RWU 72 (23-27B)	RW 23-27B	NESW	27	070S	230E	4304715194	5670	Federal	OW	TA
RWU 74 (12-13B)	RW 12-13B	SWNW	13	070S	230E	4304715196	5670	Federal	GW	S
RWU 75 (21-26B)	RW 21-26B	NENW	26	070S	230E	4304715197	5670	Federal	OW	TA
RWU 76 (32-18C)	RW 32-18C	SWNE	18	070S	240E	4304715198	5670	Federal	GW	P
RWU 77 (21-13B)	RWU 77 (21-13B)	NENW	13	070S	230E	4304715199	5670	Federal	OW	P
RWU 78 (32-28B)	RW 32-28B	SWNE	28	070S	230E	4304715200	5670	Federal	OW	P
RWU 79 (12-27B)	RW 12-27B	SWNW	27	070S	230E	4304715201	5670	Federal	OW	TA
RWU 80 (14-27B)	RW 14-27B	SWSW	27	070S	230E	4304715202	5670	Federal	OW	S
RWU 81 (41-31B)	RW 41-31B	NENE	31	070S	230E	4304715203	5670	Federal	OW	P
RWU 83 (41-27A)	RW 41-27A	NENE	27	070S	220E	4304715205	5670	Federal	OW	P
RWU 84 (44-14B)	RW 44-14B	SESE	14	070S	230E	4304715206	5670	Federal	GW	P
RWU 88 (23-18B)	RW 23-18B	NESW	18	070S	230E	4304715210	5670	Federal	WI	A
RWU 90 (43-21B)	RW 43-21B	NESE	21	070S	230E	4304715211	5670	Federal	OW	P
RWU 92 (11-23B)	RW 11-23B	NWNW	23	070S	230E	4304715212	5670	Federal	OW	TA
RWU 94 (12-22A)	RW 12-22A	SWNW	22	070S	220E	4304715213	5670	Federal	OW	P
RWU 23-18C (97)	RW 23-18C	NESW	18	070S	240E	4304715216	99996	Federal	WI	I
RWU 99 (12-22B)	RW 12-22B	SWNW	22	070S	230E	4304715218	5670	Federal	OW	P
RWU 100-A (43-21A)	RW 43-21A	NESE	21	070S	220E	4304715219	5670	Federal	WI	A
RWU 101 (34-21B)	RW 34-21B	SWSE	21	070S	230E	4304715220	5670	Federal	OW	P
RWU 102 (41-24A)	RW 41-24A	SENE	24	070S	220E	4304715221	5670	Federal	WI	A
RWU 103 (34-15B)	RW 34-15B	SWSE	15	070S	230E	4304715222	5670	Federal	OW	P
RWU 108 (32-21B)	RW 32-21B	SWNE	21	070S	230E	4304715226	5670	Federal	OW	P
RWU 109 (21-28B)	RW 21-28B	NENW	28	070S	230E	4304715227	5670	Federal	OW	P
RWU 110 (23-23A)	RW 23-23A	NESW	23	070S	220E	4304715228	5670	Federal	OW	P
RWU 111 (32-24A)	RW 32-24A	SWNE	24	070S	220E	4304715229	5670	Federal	OW	S
RWU 112 (32-28A)	RW 32-28A	SWNE	28	070S	220E	4304715230	5670	Federal	OW	S
RWU 115 (21-19B)	RW 21-19B	NENW	19	070S	230E	4304715233	5670	Federal	OW	P
RWU 119 (43-29A)	RW 43-29A	NESE	29	070S	220E	4304715236	5670	Federal	OW	P
RWU 120 (23-28B)	RW 23-28B	NESW	28	070S	230E	4304715237	5670	Federal	OW	TA
RW 13-13B	RW 13-13B	NWSW	13	070S	230E	4304715238	5670	Federal	GW	P
RWU 122 (24-14B)	RW 24-14B	SESW	14	070S	230E	4304715239	5670	Federal	OW	P
RWU 125 (34-19B)	RW 34-19B	SWSE	19	070S	230E	4304715242	5670	Federal	OW	TA
RWU 126 (41-29A)	RW 41-29A	NENE	29	070S	220E	4304715243	5670	Federal	OW	P

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 127 (12-19B)	RW 12-19B	SWNW	19	070S	230E	4304715244	5670	Federal	OW	S
RWU 129 (14-15B)	RW 14-15B	SWSW	15	070S	230E	4304715246	5670	Federal	OW	P
RWU 133 (41-34B)	RW 41-34B	NENE	34	070S	230E	4304715250	5670	Federal	OW	P
RWU 136 (43-19B)	RW 43-19B	NESE	19	070S	230E	4304715252	5670	Federal	OW	TA
RWU 137 (34-28B)	RW 34-28B	SWSE	28	070S	230E	4304715253	5670	Federal	GW	TA
RWU 138 (41-30B)	RW 41-30B	NENE	30	070S	230E	4304715254	5670	Federal	OW	P
RWU 140 (24-22B)	RW 24-22B	SESW	22	070S	230E	4304715255	5670	Federal	OW	P
RWU 141 (11-27B)	RW 11-27B	NWNW	27	070S	230E	4304715256	5670	Federal	OW	TA
RWU 143 (33-14B)	RW 33-14B	NWSE	14	070S	230E	4304715257	5670	Federal	OW	P
RWU 144 (21-18B)	RW 21-18B	NENW	18	070S	230E	4304715258	5670	Federal	OW	TA
RW 24-13B	RW 24-13B	SESW	13	070S	230E	4304715259	5670	Federal	OW	TA
RWU 147 (22-22B)	RW 22-22B	SENW	22	070S	230E	4304715260	5670	Federal	OW	TA
RWU 148 (13-22B)	RW 13-22B	NWSW	22	070S	230E	4304715261	99996	Federal	WI	A
RWU 150 (31-22B)	RW 31-22B	NWNE	22	070S	230E	4304715263	99996	Federal	WI	I
RWU 151 (42-14B)	RW 42-14B	SENE	14	070S	230E	4304715264	5670	Federal	OW	P
RWU 153 (14-29B)	RW 14-29B	SWSW	29	070S	230E	4304715265	5670	Federal	OW	P
RWU 156 (23-15B)	RW 23-15B	NESW	15	070S	230E	4304715267	99990	Federal	WI	A
RWU 158 (32-30B)	RW 32-30B	SWNE	30	070S	230E	4304715268	5670	Federal	OW	P
RWU 160 (32-15B)	RW 32-15B	SWNE	15	070S	230E	4304715270	5670	Federal	OW	P
RWU 161 (14-20B)	RW 14-20B	SWSW	20	070S	230E	4304715271	99996	Federal	WI	I
RWU 162 (12-20B)	RW 12-20B	SWNW	20	070S	230E	4304715272	5670	Federal	OW	P
RWU 164 (12-28B)	RW 12-28B	SWNW	28	070S	230E	4304715274	5670	Federal	OW	P
RWU 165 (32-26B)	RW 32-26B	SWNE	26	070S	230E	4304715275	5670	Federal	GW	TA
RWU 167 (23-21B)	RW 23-21B	NESW	21	070S	230E	4304715277	5670	Federal	OW	S
RWU 168 (23-24B)	RW 23-24B	NESW	24	070S	230E	4304715278	5670	Federal	OW	TA
RWU 172 (21-30B)	RW 21-30B	NENW	30	070S	230E	4304715280	5670	Federal	OW	TA
RWU 174 (21-20B)	RW 21-20B	NENW	20	070S	230E	4304715281	5670	Federal	WI	A
RWU 176 (31-28B)	RW 31-28B	NWNE	28	070S	230E	4304715283	5670	Federal	OW	TA
RWU 177 (42-28B)	RW 42-28B	SENE	28	070S	230E	4304715284	5670	Federal	OW	TA
RW 22-13B	RW 22-13B	SENW	13	070S	230E	4304715285	5670	Federal	OW	TA
RWU 180 (31-23B)	RW 31-23B	NWNE	23	070S	230E	4304715287	5670	Federal	OW	TA
RWU 181 (34-30B)	RW 34-30B	SWSE	30	070S	230E	4304715288	5670	Federal	OW	P
RW 33-13B	RW 33-13B	NWSE	13	070S	230E	4304715289	5670	Federal	WI	A
RWU 184 (23-26B)	RW 23-26B	NESW	26	070S	230E	4304715290	5670	Federal	GW	S
RWU 188 (23-20B)	RW 23-20B	NESW	20	070S	230E	4304715291	5670	Federal	OW	TA
RWU 192 (41-33A)	RW 41-33A	NENE	33	070S	220E	4304715294	5670	Federal	OW	P
RWU 193 (43-24B)	RW 43-24B	NESE	24	070S	230E	4304715295	5670	Federal	GW	TA
RWU 194 (12-14B)	RW 12-14B	SWNW	14	070S	230E	4304715296	5670	Federal	OW	S
RWU 196 (23-17C)	RW 23-17C	NESW	17	070S	240E	4304715298	5670	Federal	GW	TA
RWU 199 (43-22A)	RW 43-22A	NESE	22	070S	220E	4304715301	99996	Federal	WI	A
RWU 201 (32-28C)	RW 32-28C	SWNE	28	070S	240E	4304715302	5670	Federal	GW	P

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 202 (21-34A)	RW 21-34A	NENW	34	070S	220E	4304715303	99996	Federal	WI	I
RWU 204 (23-25A)	RW 23-25A	NESW	25	070S	220E	4304715305	5670	Federal	OW	P
RWU 205 (23-21C)	RW 23-21C	NESW	21	070S	240E	4304715306	5670	Federal	GW	TA
RWU 2 (14-24B)	RW 14-24B	SWSW	24	070S	230E	4304716472	99996	Federal	WI	A
RWU 7 (41-27B)	RW 41-27B	NENE	27	070S	230E	4304716473	99996	Federal	WI	I
RWU 16 (43-28B)	RW 43-28B	NESE	28	070S	230E	4304716475	99996	Federal	WI	I
RWU 25 (23-23B)	RW 23-23B	NESW	23	070S	230E	4304716476	99996	Federal	WI	A
RWU 59 (12-24B)	RW 12-24B	SWNW	24	070S	230E	4304716477	99996	Federal	WI	A
RWU 61 (12-27A)	RW 12-27A	SWNW	27	070S	220E	4304716478	99996	Federal	WI	I
RWU 91 (33-22B)	RW 33-22B	NWSE	22	070S	230E	4304716479	99996	Federal	WI	A
RWU 93 (43-27B)	RW 43-27B	NESE	27	070S	230E	4304716480	99996	Federal	WI	I
RWU 6 (41-21B)	RW 41-21B	NENE	21	070S	230E	4304716482	99996	Federal	WI	A
RWU 68 (41-13B)	RW 41-13B	NENE	13	070S	230E	4304716485	99996	Federal	WI	I
RWU 170 (41-15B)	RW 41-15B	NENE	15	070S	230E	4304716495	99996	Federal	WI	I
RWU 173 (21-21B)	RW 21-21B	NENW	21	070S	230E	4304716496	99996	Federal	WI	A
RWU 182 (14-21B)	RW 14-21B	SWSW	21	070S	230E	4304716497	99996	Federal	WI	A
RWU 185 (41-1B)	RW 41-14B	NENE	14	070S	230E	4304716498	99996	Federal	WI	A
RWU 212 (41-8F)	RW 41-8F	NENE	08	080S	240E	4304720014	5670	Federal	GW	P
RWU 213 (41-33B)	RW 41-33B	NENE	33	070S	230E	4304720060	99996	Federal	WD	A
RWU 215 (43-28A)	RW 43-28A	NESE	28	070S	220E	4304730058	99996	Federal	WD	A
RWU 216 (21-27A)	RW 21-27A	NENW	27	070S	220E	4304730103	99996	Federal	WI	A
RWU 219 (44-21C)	RW 44-21C	SESE	21	070S	240E	4304730149	5670	Federal	GW	S
RWU 220 (22-23B)	RW 22-23B	SENW	23	070S	230E	4304730192	5670	Federal	OW	TA
RWU 221 (13-27B)	RW 13-27B	NWSW	27	070S	230E	4304730199	5670	Federal	OW	TA
RWU 222 (31-27B)	RW 31-27B	NWNE	27	070S	230E	4304730200	5670	Federal	GW	TA
RWU 224 (44-22B)	RW 44-22B	SESE	22	070S	230E	4304730202	5670	Federal	GW	TA
RWU 225 (13-23B)	RW 13-23B	NWSW	23	070S	230E	4304730212	5670	Federal	GW	TA
RWU 226 (24-23B)	RW 24-23B	SESW	23	070S	230E	4304730249	5670	Federal	GW	S
RWU 227 (14-26B)	RW 14-26B	SWSW	26	070S	230E	4304730257	5670	Federal	OW	TA
RWU 228 (21-34B)	RW 21-34B	NENW	34	070S	230E	4304730258	5670	Federal	OW	P
RWU 229 (43-26B)	RW 43-26B	NESE	26	070S	230E	4304730259	5670	Federal	OW	TA
RWU 230 (14-18C)	RW 14-18C	SWSW	18	070S	240E	4304730309	5670	Federal	OW	P
RWU 231 (21-35B)	RW 21-35B	NENW	35	070S	230E	4304730310	5670	Federal	OW	TA
RWU 232 (12-26B)	RW 12-26B	SWNW	26	070S	230E	4304730311	5670	Federal	OW	TA
RWU 233 (12-25B)	RW 12-25B	SWNW	25	070S	230E	4304730312	5670	Federal	OW	TA
RWU 234 (32-24B)	RW 32-24B	SWNE	24	070S	230E	4304730313	5670	Federal	OW	P
RWU 235 (34-18C)	RW 34-18C	SWSE	18	070S	240E	4304730314	5670	Federal	OW	S
RWU 236 (21-19C)	RW 21-19C	NENW	19	070S	240E	4304730340	5670	Federal	GW	P
RWU 237 (14-25B)	RW 14-25B	SWSW	25	070S	230E	4304730341	5670	Federal	OW	P
RWU 238 (32-35B)	RW 32-35B	SWNE	35	070S	230E	4304730342	5670	Federal	OW	TA
RWU 239 (41-35B)	RW 41-35B	NENE	35	070S	230E	4304730343	5670	Federal	OW	TA

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 240 (12-36B)	RW 12-36B	SWNW	36	070S	230E	4304730344	5670	Federal	OW	S
RWU 241 (22-14B)	RW 22-14B	SENW	14	070S	230E	4304730345	5670	Federal	OW	P
RW 42-13B	RW 42-13B	SENE	13	070S	230E	4304730346	5670	Federal	OW	P
RWU 243 (42-18C)	RW 42-18C	SENE	18	070S	240E	4304730347	5670	Federal	OW	TA
RWU 244 (23-19C)	RW 23-19C	NESW	19	070S	240E	4304730348	5670	Federal	GW	P
RWU 246 (22-18C)	RW 22-18C	SENW	18	070S	240E	4304730387	5670	Federal	OW	P
RWU 247 (22-17C)	RW 22-17C	SENW	17	070S	240E	4304730388	5670	Federal	GW	P
RWU 258 (34-22A)	RW 34-22A	SWSE	22	070S	220E	4304730458	5670	Federal	WI	A
RWU 262 (22-26B)	RW 22-26B	SENW	26	070S	230E	4304730517	5670	Federal	GW	TA
RWU 263 (24-26B)	RW 24-26B	SESW	26	070S	230E	4304730518	99996	Federal	WI	I
RWU 264 (31-35B)	RW 31-35B	NWNE	35	070S	230E	4304730519	99996	Federal	WI	A
RWU 265 (44-26B)	RW 44-26B	SESE	26	070S	230E	4304730520	5670	Federal	GW	P
RWU 266 (33-26B)	RW 33-26B	NWSE	26	070S	230E	4304730521	99996	Federal	WI	I
RWU 269 (13-26B)	RW 13-26B	NWSW	26	070S	230E	4304730522	99996	Federal	WI	A
RWU 273 (42-27B)	RW 42-27B	SENE	27	070S	230E	4304731051	5670	Federal	OW	TA
RWU 279 (11-36B)	RW 11-36B	NWNW	36	070S	230E	4304731052	99996	Federal	WI	A
RWU 276 (44-27B)	RW 44-27B	SESE	27	070S	230E	4304731053	5670	Federal	OW	TA
RWU 272 (44-23B)	RW 44-23B	SESE	23	070S	230E	4304731054	5670	Federal	GW	P
RWU 278 (11-26)	RW 11-26	NWNW	26	070S	230E	4304731076	5670	Federal	GW	TA
RWU 275 (31-26B)	RW 31-26B	NWNE	26	070S	230E	4304731077	99996	Federal	WI	A
RWU 280 (11-35B)	RW 11-35B	NWNW	35	070S	230E	4304731079	5670	Federal	OW	P
RWU 282 (42-26B)	RW 42-26B	SENE	26	070S	230E	4304731080	5670	Federal	GW	TA
RWU 271 (42-35B)	RW 42-35B	SENE	35	070S	230E	4304731081	5670	Federal	WI	I
RWU 270 (22-35B)	RW 22-35B	SENW	35	070S	230E	4304731082	5670	Federal	OW	P
RWU 284 (33-23B)	RW 33-23B	NWSE	23	070S	230E	4304731476	5670	Federal	GW	TA
RWU 285 (11-24B)	RW 11-24B	NWNW	24	070S	230E	4304731477	5670	Federal	OW	P
RWU 286 (42-21B)	RW 42-21B	SENE	21	070S	230E	4304731478	5670	Federal	OW	P
RW 44-13B	RW 44-13B	SESE	13	070S	230E	4304731512	5670	Federal	OW	TA
RWU 288 (24-27)	RW 24-27	SESW	27	070S	230E	4304731513	5670	Federal	OW	TA
RWU 289 (13-24B)	RW 13-24B	NWSW	24	070S	230E	4304731517	5670	Federal	OW	P
RWU 292 (42-23B)	RW 42-23B	SENE	23	070S	230E	4304731576	5670	Federal	GW	TA
RWU 295 (11-22B)	RW 11-22B	NWNW	22	070S	230E	4304731577	5670	Federal	GW	TA
RWU 296 (12-35B)	RW 12-35B	SWNW	35	070S	230E	4304731578	5670	Federal	OW	S
RWU 297 (24-15B)	RW 24-15B	SESW	15	070S	230E	4304731579	5670	Federal	OW	P
RWU 293 (22-22A)	RW 22-22A	SENW	22	070S	220E	4304731581	5670	Federal	OW	TA
RWU 294 (24-18C)	RW 24-18C	SESW	18	070S	240E	4304731582	5670	Federal	GW	P
RWU 298 (22-27B)	RW 22-27B	SENW	27	070S	230E	4304731679	5670	Federal	OW	TA
RWU 301 (43-15B)	RW 43-15B	NESE	15	070S	230E	4304731682	5670	Federal	GW	TA
RWU 302 (22-24B)	RW 22-24B	SENW	24	070S	230E	4304731683	5670	Federal	GW	TA
RWU 303 (34-17B)	RW 34-17B	SWSE	17	070S	230E	4304731819	5670	Federal	OW	P
RED WASH 305 (41-4F)	RW 41-4F	C-NE	04	080S	240E	4304732538	5670	Federal	GW	TA

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RED WASH 306	RW 23-23C	NESW	23	070S	240E	4304732629	5670	Federal	GW	P
RWU 207	RW 14-17B	SWSW	17	070S	230E	4304732738	5670	Federal	OW	P
RED WASH UNIT 261	RW 23-17B	NESW	17	070S	230E	4304732739	5670	Federal	WI	A
RWU 268 (43-17B)	RW 43-17B	NESE	17	070S	230E	4304732980	5670	Federal	WI	A
RWU 267 (32-17B)	RW 32-17B	SWNE	17	070S	230E	4304732981	5670	Federal	OW	P
RWU 283 (43-18B)	RW 43-18B	NESE	18	070S	230E	4304732982	5670	Federal	WI	A
RWU 299 (32-18B)	RW 32-18B	SWNE	18	070S	230E	4304733018	5670	Federal	OW	P
RWU 42-20B	RW 42-20B	SENE	20	070S	230E	4304733490	5670	Federal	OW	P
RWU 22-20B	RW 22-20B	SENW	20	070S	230E	4304733491	5670	Federal	OW	S
RWU 24-19B	RW 24-19B	SESW	19	070S	230E	4304733492	5670	Federal	OW	P
RWU 13-19B	RW 13-19B	NWSW	19	070S	230E	4304733497	5670	Federal	WI	A
RWU 13-20B	RW 13-20B	NWSW	20	070S	230E	4304733498	5670	Federal	WI	A
RWU 33-19B	RW 33-19B	NWSE	19	070S	230E	4304733499	5670	Federal	WI	A
RWU 33-20B	RW 33-20B	NWSE	20	070S	230E	4304733500	5670	Federal	WI	A
RED WASH 22-21B	RW 22-21B	SENW	21	070S	230E	4304733522	5670	Federal	OW	S
RED WASH 24-20B	RW 24-20B	SESW	20	070S	230E	4304733523	5670	Federal	OW	P
RED WASH 44-19B	RW 44-19B	SESE	19	070S	230E	4304733524	5670	Federal	OW	P
RED WASH 44-20B	RW 44-20B	SESE	20	070S	230E	4304733525	5670	Federal	OW	P
RWU 11-19B	RW 11-19B	NWNW	19	070S	230E	4304733552	5670	Federal	WI	A
RWU 11-20B	RW 11-20B	NWNW	20	070S	230E	4304733553	5670	Federal	WI	A
RWU 24-18B	RW 24-18B	SESW	18	070S	230E	4304733554	5670	Federal	OW	P
RWU 31-19B	RW 31-19B	NWNE	19	070S	230E	4304733555	5670	Federal	WI	A
RWU 42-19B	RW 42-19B	SENE	19	070S	230E	4304733556	5670	Federal	OW	P
RWU 22-19B	RW 22-19B	SENW	19	070S	230E	4304733559	5670	Federal	OW	P
RWU 23-24A	RW 23-24A	NESW	24	070S	220E	4304733567	5670	Federal	OW	P
RWU 34-24A	RW 34-24A	SWSE	24	070S	220E	4304733568	5670	Federal	WI	A
RWU 42-24A	RW 42-24A	SENE	24	070S	220E	4304733569	5670	Federal	OW	S
RWU 11-25A	RW 11-25A	NWNW	25	070S	220E	4304733574	5670	Federal	WI	A
RWU 13-25A	RW 13-25A	NWSW	25	070S	220E	4304733575	5670	Federal	WI	A
RWU 21-25A	RW 21-25A	NENW	25	070S	220E	4304733576	5670	Federal	OW	P
RWU 31-25A	RW 31-25A	NWNE	25	070S	220E	4304733577	5670	Federal	WI	A
RWU 33-25A	RW 33-25A	NWSE	25	070S	220E	4304733578	5670	Federal	WI	A
RW 41-25AX	RW 41-25A	NENE	25	070S	220E	4304733579	5670	Federal	OW	P
RWU 42-25A	RWU 42-25A	SENE	25	070S	220E	4304733580	5670	Federal	OW	TA
RWU 11-29B	RW 11-29B	NWNW	29	070S	230E	4304733590	5670	Federal	WI	A
RWU 12-24A	RW 12-24A	SWNW	24	070S	220E	4304733591	5670	Federal	WI	A
RWU 21-24A	RW 21-24A	NENW	24	070S	220E	4304733592	5670	Federal	OW	P
RWU 34-13A	RW 34-13A	SWSE	13	070S	220E	4304733593	5670	Federal	WI	A
RWU 44-18B	RW 44-18B	SESE	18	070S	230E	4304733594	5670	Federal	OW	P
RW 22-13A	RW 22-13A	SENW	13	070S	220E	4304733765	13296	Federal	OW	S
RWU 22-29B	RW 22-29B	SENW	29	070S	230E	4304733766	5670	Federal	OW	S

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 41-24A	RW 41-24A	NENE	24	070S	220E	4304733769	5670	Federal	OW	P
RWU 42-30B	RW 42-30B	SENE	30	070S	230E	4304733771	5670	Federal	OW	P
RWU 44-30B	RWU 44-30B	SESE	30	070S	230E	4304733772	5670	Federal	OW	P
RWU 11-30B	RW 11-30B	NWNW	30	070S	230E	4304733785	5670	Federal	WI	A
RWU 22-25A	RW 22-25A	SENW	25	070S	220E	4304733786	5670	Federal	OW	P
RWU 31-30B	RW 31-30B	NWNE	30	070S	230E	4304733788	5670	Federal	WI	A
RWU 33-30B	RW 33-30B	NWSE	30	070S	230E	4304733790	5670	Federal	WI	A
RED WASH U 34-27C	RW 34-27C	SWSE	27	070S	240E	4304735045	5670	Federal	GW	P
RWU 34-22C	RW 34-22C	SWSE	22	070S	240E	4304735098	5670	Federal	GW	P
RW 12G-20C	RW 12G-20C	SWNW	20	070S	240E	4304735239	14011	Federal	GW	S
RW 43G-08F	RW 43G-08F	NESE	08	080S	240E	4304735655		Federal	GW	APD
RW 22G-09F	RW 22G-09F	SENW	09	080S	240E	4304735656	15636	Federal	GW	OPS
RWU 34-23AG	RW 34-23AG	SWSE	23	070S	220E	4304735668	5670	Federal	OW	P
RWU 34-27AG	RWU 34-27AD	SWSE	27	070S	220E	4304735669	5670	Federal	OW	DRL
RWU 32-27AG	RWU 32-27AG	SWNE	27	070S	220E	4304735670	5670	Federal	OW	S
RW 14-34AMU	RW 14-34AMU	SWSW	34	070S	220E	4304735671	14277	Federal	GW	P
RW 12-08FG	RW 12-08FG	SWNW	08	080S	240E	4304736348		Federal	GW	APD
RW 44-08FG	RW 44-08FG	SESE	08	080S	240E	4304736349	15261	Federal	GW	P
RW 12-17FG	RW 12-17FG	SWNW	17	080S	240E	4304736350		Federal	GW	APD
RW 34-34 AMU	RW 34-34 AD	SWSE	34	070S	220E	4304736351		Federal	GW	APD
RW 44-35 AMU	RW 44-35 AMU	SESE	35	070S	220E	4304736352		Federal	GW	APD
RW 14-35 AMU	RW 14-35 AMU	SWSW	35	070S	220E	4304736354		Federal	GW	APD
RW 33-31 BMU	RW 33-31 BD	NWSE	31	070S	230E	4304736357		Federal	GW	APD
RW 13-31 BMU	RW 13-31 BD	NWSW	31	070S	230E	4304736358		Federal	GW	APD
RW 32-15FG	RW 32-15FG	SWNE	15	080S	240E	4304736443		Federal	GW	APD
RW 21-26AG	RW 21-26AD	NENW	26	070S	220E	4304736768		Federal	OW	APD
RW 43-26AG	RW 43-26AG	NESE	26	070S	220E	4304736769		Federal	OW	APD
RW 43-23AG	RW 43-23AG	NESE	23	070S	220E	4304736770		Federal	OW	APD
RW 41-26AG	RW 41-26AG	NENE	26	070S	220E	4304736818		Federal	OW	APD
RW 04-25BG	RW 04-25B	NWSW	25	070S	230E	4304736982		Federal	OW	APD
RW 01-25BG	RW 01-25BG	NWNW	25	070S	230E	4304736983		Federal	OW	APD
RW 04-26BG	RW 04-26BG	SESW	26	070S	230E	4304736984		Federal	OW	APD
RW 01-26BG	RW 01-26BG	SWNW	26	070S	230E	4304736985		Federal	OW	APD
RW 01-35BG	RW 01-35BG	SWNW	35	070S	230E	4304736986		Federal	OW	APD

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 51 (12-16B)	RW 12-16B	SWNW	16	070S	230E	4304715177	5670	State	OW	P
RWU ST 189 (41-16B)	RW 41-16B	NENE	16	070S	230E	4304715292	5670	State	OW	S
RED WASH UNIT 259	RW 14-16B	SWSW	16	070S	230E	4304732785	5670	State	OW	P
RED WASH UNIT 260	RW 34-16B	SWSE	16	070S	230E	4304732786	5670	State	OW	P
RWU 324 (23-16B)	RW 23-16B	SESW	16	070S	230E	4304733084	5670	State	WI	OPS
RWU 21W-36A	RWU 21W-36A	NENW	36	070S	220E	4304733730		State	GW	LA
RWU 21G-36A	RWU 21G-36A	NENW	36	070S	220E	4304733731		State	OW	LA
RWU 41-36A	RWU 41-36A	NENE	36	070S	220E	4304733732		State	OW	LA
RWU 43-16B	RWU 43-16B	NESE	16	070S	230E	4304733733		State	OW	LA
RWU 21-16B	RWU 21-16B	NENW	16	070S	230E	4304733734		State	OW	LA
RWU 11-36A	RWU 11-36A	NWNW	36	070S	220E	4304733736		State	OW	LA
RWU 13-36A	RWU 13-36A	NWSW	36	070S	220E	4304733737		State	OW	LA
RW 32G-16C	RW 32G-16C	SWNE	16	070S	240E	4304735238	5670	State	GW	P
RW 14-36AMU	RW 14-36AMU	SWSW	36	070S	220E	4304736721		State	GW	APD
RW 01-36BG	RW 01-36BG	NWNW	36	070S	230E	4304736887	5670	State	OW	S
RW 24-16BG	RW 24-16BG	SESW	16	070S	230E	4304737746	5670	State	OW	DRL
RW 12-32BG	RW 12-32BG	SWNW	32	070S	230E	4304737946	15841	State	GW	DRL

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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.

5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
7. UNIT or CA AGREEMENT NAME: see attached
8. WELL NAME and NUMBER: see attached
9. API NUMBER: attached
10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER _____
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 308-3068
4. LOCATION OF WELL
FOOTAGES AT SURFACE: attached COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 1/1/2007	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Operator Name Change
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:
Federal Bond Number: 965002976 (BLM Reference No. ESB000024)
Utah State Bond Number: 965003033
Fee Land Bond Number: 965003033
Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

Jay B. Neese, Executive Vice President
Questar Exploration and Production Company

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs
SIGNATURE _____ DATE 3/16/2007

(This space for State use only)

RECEIVED
APR 19 2007
DIV. OF OIL, GAS & MINING

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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.

5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
7. UNIT or CA AGREEMENT NAME: see attached
8. WELL NAME and NUMBER: see attached
9. API NUMBER: attached
10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 308-3068
4. LOCATION OF WELL
FOOTAGES AT SURFACE: attached
COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 1/1/2007	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Well Name Changes
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs
SIGNATURE DATE 4/17/2007

(This space for State use only)

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APR 19 2007
DIV. OF OIL, GAS & MINING

(5/2000)

(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

TAKE PRIDE IN AMERICA

IN REPLY REFER TO
3180
UT-922

April 23, 2007

Questar Exploration and Production Company
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Red Wash Unit
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company 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 April 23, 2007. 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 nationwide oil and gas bond No. ESB000024 will be used to cover all federal 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/ Greg J. Noble

Greg J. Noble
Acting Chief, Branch of Fluid Minerals

Enclosure
bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
File - Red Wash Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files
UT922:TAThompson:tt:4/23/07

RECEIVED
APR 30 2007
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

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

The operator of the well(s) listed below has changed, effective: **6/14/2010**

FROM: (Old Operator):	**TO:** (New Operator):
N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048	N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048

CA No. **Unit:** **RED WASH**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/24/2010

4a. Is the new operator registered in the State of Utah: Business Number: 764611-0143

5a. (R649-9-2)Waste Management Plan has been received on: Requested

5b. Inspections of LA PA state/fee well sites complete on: n/a

5c. Reports current for Production/Disposition & Sundries on: ok

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: BLM 8/16/2010 BIA not yet
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** 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: 6/29/2010

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/30/2010
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/30/2010
3. Bond information entered in RBDMS on: 6/30/2010
4. Fee/State wells attached to bond in RBDMS on: 6/30/2010
5. Injection Projects to new operator in RBDMS on: 6/30/2010
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024
2. Indian well(s) covered by Bond Number: 965010693

3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695

3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** 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: n/a

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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.

5. LEASE DESIGNATION AND SERIAL NUMBER: See attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached

7. UNIT or CA AGREEMENT NAME: See attached

8. WELL NAME and NUMBER: See attached

9. API NUMBER: Attached

10. FIELD AND POOL, OR WILDCAT: See attached

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

2 NAME OF OPERATOR: Questar Exploration and Production Company N5085

3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265

PHONE NUMBER: (303) 672-6900

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached

COUNTY: Attached

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/14/2010	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Operator Name Change
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024) N3700

Utah State Bond Number: ~~965003033~~ 965010695

Fee Land Bond Number: ~~965003033~~

BIA Bond Number: ~~799446~~ 965010693

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) Morgan Anderson TITLE Regulatory Affairs Analyst

SIGNATURE Morgan Anderson DATE 6/23/2010

(This space for State use only)

RECEIVED
JUN 28 2010
DIV. OF OIL, GAS & MINING

APPROVED 6/30/2009
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
RED WASH
effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
RW 12-16B	16	070S	230E	4304715177	5670	State	OW	P	
RW 41-16B	16	070S	230E	4304715292	5670	State	OW	P	
RW 14-16B	16	070S	230E	4304732785	5670	State	OW	P	
RW 34-16B	16	070S	230E	4304732786	5670	State	OW	P	
RW 23-16B	16	070S	230E	4304733084	5670	State	D	PA	
RWU 21W-36A	36	070S	220E	4304733730		State	GW	LA	
RWU 21G-36A	36	070S	220E	4304733731		State	OW	LA	
RWU 41-36A	36	070S	220E	4304733732		State	OW	LA	
RWU 43-16B	16	070S	230E	4304733733		State	OW	LA	
RWU 21-16B	16	070S	230E	4304733734		State	OW	LA	
RWU 11-36A	36	070S	220E	4304733736		State	OW	LA	
RWU 13-36A	36	070S	220E	4304733737		State	OW	LA	
RW 32G-16C	16	070S	240E	4304735238	5670	State	GW	P	
RW 14-36AMU	36	070S	220E	4304736721		State	GW	LA	
RW 01-36BG	36	070S	230E	4304736887	5670	State	OW	P	
RW 24-16BG	16	070S	230E	4304737746	5670	State	OW	P	
RW 12-32BG	32	070S	230E	4304737946	15841	State	GW	P	
RW 23-32BD	32	070S	230E	4304739182		State	GW	APD	C
RW 21-32BW	32	070S	230E	4304739183		State	GW	APD	C

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov/ut/st/en.html

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3100
(UT-922)

JUL 28 2010

Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office

From: Chief, Branch of Minerals Roger L Bankert

Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS
UDOGM

RECEIVED
AUG 16 2010
DIV. OF OIL, GAS & MINING