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	12-25-56
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 12/25/56 — Location Inspected

OW ✓ WW TA — Bond released

GW OS PA — State of Fee Land

Recompl Rpt ✓ LOGS FILED

Driller's Log 5/13/57

Electric Logs (No.) 2

E ✓ I E-I GR GR-N Micro ✓

Lat Mi-L Sonic Others

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)

[redacted], 19[redacted]

Well No. [redacted] is located [redacted] ft. from [redacted] line and [redacted] ft. from [redacted] line of sec. [redacted]

[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 derrick floor above sea level is [redacted] 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)

[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

COMPLETION REPORT — NEW WELL

STANDARD OIL COMPANY OF CALIFORNIA

Noted Cat 5-14-57

FIELD: Red Wash PROPERTY: Section 18B

WELL NO: 14-18B (52) Sec. 18 T. 7S R. 23E S.L.B. & M.

LOCATION: 660' North, 592' East of Southwest corner LAND OFFICE: Salt Lake City
LEASE NO.: U-0116

ELEVATION: 5477' K.B. K.B. is 9.0' above ground

DATE: January 9, 1957 By J. T. CROOKER
Manager, Producing Department

DRILLED BY: Kerr McGee Oil Industries

DATE COMMENCED DRILLING: October 31, 1956 DATE COMPLETED DRILLING: December 25, 1956

DATE OF INITIAL PRODUCTION: January 11, 1957

PRODUCTION:							
Daily average, 1st	30	days	Gravity	28.5	° API	Pumping	X
Oil	106	Bbls.	T. P.	75	PSI	Flowing	
Water	48	Bbls.	C. P.		PSI	Gas Lift	
Gas	39	Mcf.	Bean		/64"		

SUMMARY

TOTAL DEPTH: 6359'

PLUGS: None

CASING: Conductor 16" cemented 22'
10 3/4", 40.5#, H-40 cemented 425'
7", 23#, J-55, N-80 cemented 5800'
C.P.'D. 5201'
Perf'd. 5660 - 5688
5134 - 5148
5104 - 5130

JUNK: None

LOGS RUN: Schlumberger Electric Logs.
Run 1 6266' - 425'
Run 2 6347' - 6266'

Schlumberger Microlog
Run 1 6264' - 2800'
Run 2 6344' - 6100'

McCullough Gamma Ray-Collar Log
Run 1 5731' - 4500'

MARKERS:

Top Green River	3177 (+2310)
"H" Point	5034 (+ 443)
"K" Point	5713 (- 235)

Drill Stem Tests

#1	HFT	5110 - 5153
#2	HFT	5664 - 5700
#3	HFT	5848 - 5875
#4	HFT	6255 - 6278
#5	HFT	6328 - 6359

WORK DONE

0' - 22', 16" conductor.

October 27 - 31, 1956.

Kerr McGee Oil Industries moved in and rigged up.

Spudded 3:00 p.m., October 31, 1956.

Drilled 15" hole, 4½" F.H. drill pipe, water drilling fluid.

22' - 431' 409' Drilled.

Cemented 449' of 10 3/4" casing at 425'.
Mixed 275 sacks Ideal Common cement with 2% calcium chloride in 15 minutes to average 16 ppg slurry. Used Howco power equipment. 5 minutes displacing. Used one top rubber plug. Cement in place 2:50 p.m. Good cement returns to surface.

Casing Detail

All	11 jts.	449'	10 3/4" O.D., 40.5#, H-40, Range 3, new, seamless casing with short 8 round threads and couplings. Includes Baker cement guide shoe and Baker float collar two joints up.
Total	11 jts. or	449'	
Above K.B.		24'	
Cemented at		425'	

Casing Summary

Landed 10 3/4" casing 15' below Kelley Bushing, leaving 410' of casing cemented at 425'.
Recovered 39' of 10 3/4" casing.

Cut and recovered 15' of 16" conductor.

Stood cemented 28 hours.

Installed Class III blowout prevention equipment. Pressure tested to 1200 psi with clear water for 30 minutes, O.K. (While standing cemented.)

Drilled out collar, cement, and guide shoe.

Drilled 9" hole, 4½" drill pipe, 9.2 - 9.6 ppg mud.

431' - 4965' 4534' Drilled.

Lost approximately 150 barrels of mud @ 3752'. Full returns @ 3758'.

November 14, 1956.

Diamond Cored 8 7/8" hole, 4½" drill pipe, 9 ppg mud.

Core #1 - 4965' - 5030' - Recovered 65'

4965' - 4965½' S.S. - gr, vfg, v hd, perm NSOF
4965½' - 4968' S.S. & sh - f inbd; S.s., lt gr, hd, ti; Sh, gr-brn, m hd, irreg fracs.
4968' - 4970' S.S. - as in top of core.
4970' - 4971' S.S. & Sh - a.a.
4971' - 4972' S.S. - as in top of core
4972' - 4981' S.S. & Sh - s.a., gr-tn, vfg, dns, hd, v dol, NSOF; Sh, a.a., pred v crs, reworked.
4981' - 4982' S.S. - tn, dol, hd, dns, ti, NSOF
4982' - 4993½' S.S. & Sh - a.a.
4993½' - 4996' Sh
4996' - 4997½' S.S. - lt gr, fg, well sort, hd, well cem, scat vf blk sphs, rare osts, spot stn, dull yel flsnt, gr-bl cut, wet.
4997½' - 5001' S.S. & Sh - a.a., crs, reworked.
5001' - 5004' Sh
5004' - 5005' S.S. - a.a.
5005' - 5011' Sh
5011' - 5013' S.S. - a.a.
5014' - 5023' Sh
5023' - 5027' S.S. - a.a.
5027' - 5030' S.S. - dk gr, fg, fair sort, hd, well cem, wet, NSOF, bottom badly broken in bbl when jammed

- - - -

Core #2 (cont'd)

5098' - 5100'	Bcm S.s. a.a., except slightly cvsr gr & oil stn'd. Oil in frac.
5100' - 5102'	Grades to Sltst, m gr, hd
5102' - 5106'	S.s. - lt gr, vfg, v hd, well cem, patches Sh & carb frags, spotty stn wi bri yel flsn & bl-gr cut, fnt pet odor. Generally tite.
5106' - 5108'	Bcm S.s. - a.a., ti wi 30% Sh in thin inlams to 1" strs, finely reworked.
5108' - 5114'	Oil stn S.s. - m gr wi spotty brn stn, fg, sa/sr, well sort, hd, well cem, abd dk sh strs, bri yel flsn where stn wi inst silver-bl cut
5114' - 5116'	Bcm generally ti wi rare stn'd strs
5116' - 5120'	Oil stn'd S.s. - m gr wi dk brn stn, fg, sr, well sort, hd, difficultly fri, gld flsn wi inst gr-bl cut, good pet odor, occ strs & patches sh & ti unstn'd ss. Bottom 1½' badly broken in core bbl. Oil in frac.

Core #3 - 5120' - 5210' - Recovered 90'

5120' - 5131½'	Oil stn'd S.s., gr wi lt brn stn, fg, sa/sr, fair to good sort, strs ti s.s. and thi sh inlams, good pet odor, bri yel flsn, inst silver bl cut Bcm incr shaley
5131½' - 5135'	Grades to S.s. and Sh, s.s. pred lt gr, vfg, well cem & ti wi occ strs perm. Sh dk gr thi inlams
5135' - 5136½'	Sh. gr gr, m hd, irreg frac
5136½' - 5137½'	Grades to Sh a.a. wi dk gr sltst
5137½' - 5142½'	Dol oolite, tn wi fine tn ools, abd outs, NSOF
5142½' - 5144'	Bcm oil stn'd, spotty lt brn stn, bri yel flsn
5144' - 5153½'	Oil stn S.s., gr wi lt brn stn, fg, sr, well sort, hd, m fri, good pet odor, bri yel flsn
5153½' - 5156½'	Bcm pred ti s.s., vfg, ti, rare patch stn, strs dk sh
5156½' - 5157½'	Bcm incr shaley
5157½' - 5161½'	Bcm pred Sh, dk gr, hd
5161½' - 5162½'	Grades to S.s., vfg, v well cem, hd, ti, barren
5162½' - 5165'	Sh, sa, wi strs ti ss to 2"
5165' - 5170'	S.s., dk gr, fg, sr, well sort, hd, m fri, abd blk sphs, wet NSOF
5170' - 5176'	S.s., lt gr, vfg, hd, dns, ti except in occ strs, 15% reworked sh in thi inlams to 1" strs.
5176' - 5178½'	Bcm pred Sh, dk gr, hd, irreg frac
5178½' - 5181½'	S.s., fg, sa/sr, fair sort, hd, well cem, NSOF
5180½' - 5183'	Appears some perm
5183' - 5193'	Grades to S.s., m gr, m/crs, hd, fri, well sort, sa, perm, wet NSOF 2" misff gr sh
5193' - 5196'	S.s., dk gr, fg, dns, hd, well cem, dolic abd blk sphs, ti, NSOF
5196' - 5203'	S.s., dk gr, mg, m hd, m fri, perm, wet, NSOF
5203' - 5210'	Bcm streaked wi dk sh inlams to 1/4" strs.

Core #4 - 5210' - 5300' - Recovered 90'

5210' - 5217'	S.s., dk gr, fg, m hd, dns, m fri, perm, wet, NSOF
5217' - 5221'	S.s., dk gr, vfg, hd, dns, well cem, wet, becoming ti, strks dk sh inlams, Strks stn
5221' - 5221½'	6" S.s., dk gr, fg, v hd, v dns, ti, no perm, poor sort, well cem.
5221½' - 5226'	S.s., dk gr, fg, m hd, perm, well sort, wet, NSOF
5226' - 5227½'	Som vfg, m fri, perm, well sort, wet, NSOF
5227½' - 5228'	62 Siltstn, f gr, v hd
5228' - 5230'	S.s., vfg, hd, perm, lt gr, wet, NSOF
5230' - 5230½'	Sh, dk, hd, irreg frac
5232½' - 5234'	Siltstn, vfg, hd, dk brn sh inlams
5234' - 5241½'	S.s., lt gr, mg, sa, well sort, hd, mod fri, wet, perm, NSOF patchy sh, lt gr, soft
5241½' - 5242½'	10" Sh, dk gr, hd, w/stks s.s.
5242½' - 5247'	S.s., a.a.
5247' - 5250'	Siltstn, lt gr, vfg, hd, bcm Sh, dk gr, m hd, carb frags, irreg frac.
5250' - 5263'	Sh, a.a., bcm siltstn inlams, hd, ti, dk gr
5263' - 5265'	S.s., dk gr, fg, sa, hd, NSOF
5265' - 5270'	Siltstn, hd, w/Sh inlams, patchy oil stn
5270' - 5272'	Siltstn, lt gr, bcm sh
5272' - 5273'	S.s., lt gr, fg, sa, hd
5273' - 5280'	Siltstn, w/strks sh, dk gr, fg, dns, v hd
5280' - 5281'	S.s., fg, lt gr, sa, m hd, NSOF
5281' - 5287'	Strks Sh, dk gr, carb stn inlams
5287' - 5288'	Siltstn, dk gr, fg, dns, hd, well cem, dolic osts
5288' - 5291'	Siltstn, lt gr, fg, dns, hd, well cem, dolic, abd osts
5291' - 5294'	bcm S.s., mg, dolic lt gr, abd osts, perm, NSOF
5294' - 5300'	S.s., f/mg, lt gr, well sort, sa, bcm perm where sampled, NSOF crushed strks sh inlams, irreg in bottom 1'

November 20, 1956

DST #1 One hour formation test of interval 5110 - 5153, HB-HD, lower Green River sands
Ran Halliburton tester on 1½", 16.6# F.H. D.P., 228' of 6 3/4" O.D. drill collars, no cushion, sidewall anchor tool, three 8" O.D. packers, hydraulic valve, Howco jars and safety jt. Set packers at 5105, 5110 and 5153. Opened valve 3:30 p.m. for 1 hour then closed for 30 minutes start in test.

Mild blow immediately. Gas to surface in 8 minutes. Mild blow balance of test. Pitot tube meas. 60 - 75 MCF/D rate. Recovered 620' including top 295' high pour point oil 28° API, 93° pour point. Bottom 325' watery mud grading to muddy water above tools. 350 ppm Cl⁻ 10m. Bottom recorder indicates bottom packer held o.k.

Charts:

	IH	IF	FF	SI	FH
Top HP	2571	74	212	1836	2558
Middle HP	2585	101	237	1870	2567

Core #5 - 5300' - 5385' - Recovered 81'

5300' - 5304'	S.s., vf/fg, lt gr, well sort, sa, perm, NSOF, wet, carb (gilsonitic) intrusions
5304' - 5314'	S.s., c.g., dk gr, conglom carb intrusions, poor sort, vy perm, NSOF, wet, scattered sphs
5314' - 5318'	S.s., mg, lt gr, well sort, perm, NSOF, wet 4" Siltstn w sh inlams, ti, 5315' to 5316'
5318' - 5320'	S.s., cg, well sort, slightly perm, NSOF, wet

Core #5 (cont'd)

5320' - 5324'	Sh, silty, irreg frac, lt gr w/dk gr inlams
5324' - 5326½'	S.s., fg, lt gr, abd ostres, dolic, bcm mg, conglom, NSOF, perm, wet, 10" Sltstn, ti,
5326½' - 5336'	S.s., fg, lt gr, well sort, perm, NSOF, wet
5336' - 5340'	Bcm strks ti, dns, imperm, Sltstn wi ost coq and sub coq 1" Sh at 5338'
5340' - 5341'	4" Ost coq grading to sub coq
5341' - 5342'	1" Sh, dk gr, m hd
5342' - 5349½'	Grades to Sltst, m gray, hd wi strs reworked dk sh
5349½' - 5351'	S.s., lt gr, fg, sa/sr, fair sort, hd, well cem, NSOF
5351' - 5353'	Bcm very shaley, Sh in dk thi finely reworked inlams
5353' - 5354'	Grades to Sh, dk gr, m hd, irreg frac
5354' - 5355½'	Sltst & Sh, sltst lt gr, hd; Sh, a.a.
5355½' - 5366'	Grades to S.s., lt gr, fg, sr, v well sort, hd, well cem, wet, NSOF
5366' - 5370'	Bcm tighter wi strs lt gr Sltst and dk Sh
5370' - 5371'	Sltst, lt gr, hd
5371' - 5372½'	Bcm v shaley - th reworked inlams
5372½' - 5373½'	Bcm pred Sh., dk gr, m hd, irreg frac
5373½'	3" Ost. coq.
5381' - 5385'	No recovery

Core #6 - 5385' - 5438' - Recovered 52'

5385' - 5387½'	Sltst, m gr, very hd and dns, wi strs dk gr, m sft sh
5387½' - 5391'	Grades to Sh, dk gr, m sft, irreg frac
5391' - 5394½'	Ost-coq, blk & tn ostr in dol mtrx, ti, NSOF
5394½' - 5402'	Sh, dk brn, m sft, poker chip frac
5402' - 5407'	Sltst & Sh., Sltst, m gr, hd; Sh, a.a. in thin coarsely reworked inlams to strs 4"
5407' - 5408½'	Oil stn'd S.s., dk brn stn, fine g, sa, fair sort, hd, well cem, abd blk gs, good pet odor, dull gold flsn, inst white cut
5408½' - 5409½'	Bcm strkd with 30% barren Sltst
5409½' - 5410'	Sltst, m gr, hd
5410' - 5411'	S.s., vfg, sr, mgr, hd, well cem, NSOF
5411' - 5412½'	Sltst, lt gr, hd, wi strs dark reworked sh
5412½' - 5415½'	Sh, dk gr, sft, irreg frac
5415½' - 5417'	Limestone, calcitic, m gr, v hd, dns, abd sphs and ostr, ti, NSOF
5417' - 5417½'	Sh, gr-grn, m hd, irreg frac
5417½' - 5418½'	S.s., vfg, ti, wi NSOF
5418½' - 5419½'	Oil stn S.s., dk brn stn, mg, sa/sr, fair sort, hd, m frl, strong sulfur odor, dk brn flsn, inst li brn cut
5419½' - 5437'	Bcm S.s. a.a. without oil stn
5437' - 5438'	No recovery

Core #7 - 5438' - 5528' - Recovered 90'

5438' - 5441'	S.s., lt gr, tn, fg, sa, silty, well sort, hd, NSOF, wet, perm
5441' - 5442'	Sltstn, dk gr, dns, ti, hd
5442' - 5444'	S.s., lt gr, fg, sa, clean, well sort, m fri, NSOF, wet, perm
5444' - 5447'	Sltstn, lt gr, ti, hd, sh inlams
5447' - 5451½'	Bcm pred Sh
5451½' - 5462'	Sh, dk gr, hd, irreg frac, silty in patch
5462' - 5464'	Sltstn, lt gr w/strks dk gr sh w/brush cast
5464' - 5465'	Bcm abd ostros
5465' - 5479'	Sh, dk gr, strks sltstn, hd, ti, bri irreg fracs
5479' - 5481'	S.s., lt gr, tn, fg, sa, well sort, NSOF, wet
5481' - 5482'	Sh, dk gr, hd, britt irreg fracs, abd fanna casts
5482' - 5483'	S.s., lt gr, fg, sa, hd, ti, imperm
5483' - 5483½'	perm inlams, brn oil stn, mg, dood odor, yel flo, yel cut
5484' - 5484½'	6" Sh, dk gr brn (oil sh)
5484½' - 5487'	Sltstn, patchy sh
5487' - 5492'	Sh, dk gr, sltstn inlams, hd, irreg frace
5492' - 5504'	Sh, dk gr brn, brittle, lam fracs
5504' - 5506'	10" Sltstn, lmy
5507' - 5532'	Sltstn, patches - Sh, hd, irreg frac, lmy
5532' - 5523½'	Sh, a.a.
5523½' - 5525'	Dolo, abd ostros, hd, ti
5525' - 5527'	S.s., mg, dk gr brn, sa, well sort, NSOF, perm, wet
5527' - 5528'	Sltstn, dk gr, ti, vy hd

Core #8 - 5528' - 5592' - Recovered 64'

5528' - 5533'	Sltstn, dk gr, v hd, abd osts, calc, no perm, fw strks s.s., sa, lt gr, fg, num osts, perm, NSOF, wet
5533' - 5542½'	Bcm strks Sh, dk gr inlams
5542½' - 5555'	Sh, dk gr, brtl, hd, irreg fracs, strks sltstn, num carb foss
5555' - 5558'	S.s., vf-fg, lt gr, sa, hd, no perm, NSOF, well sort
5558' - 5569½'	5" dk grn Sh Sltstn, lt gr, hd, strks sh, mott app
5569½' - 5592'	Sh, dk gr, brtl, pred irreg fracs, strks sltstn, fw grnsh & brn sh casts

Core #9 - 5592' - 5667' - Recovered 75'

5592' - 5598'	Sh & Sltstn, Sh dk gr, brtl, irreg fracs, fw carb intr, fw brush casts; Sltstn, lt gr, v hd, strks sh, dk gr, Sampled in sltstn for perm checks
5598' - 5612'	Pred 70% sltstn
5612' - 5618'	Pred 90% sltstn, a.a.
5618' - 5619'	S.s., inlams, ti, oil stn, tarnish v faint cut
5625' - 5634'	60% Sltstn, a.a.; 40% Sh, a.a.
5634' - 5639'	80% Sh, a.a.
5639' - 5640'	2" S.s., v ti, brn oil stn, yel flsn

Core #9 (cont'd)

5640' - 5650'	Sltstn, lt gr, v hd, dns, lmy, irreg fracs, fw sh strks inlams
5650' - 5653'	brnsh oil stn, strks ti s.s., br yel flsn, li straw cut CCl_4
5653' - 5655'	strks oil stn'd s.s., aa, bcm perm, straw cut
5655' - 5657'	Bcm S.s., fg, sr, lt brn w/oil stn, m ti w/strks sh & sltstn, lt gr, hd, ti, 50% s.s.
5657' - 5659'	Bcm pred Sltstn w/fw strks oil s.s., aa., hd, ti, strkd sh, dk gr, h
5659' - 5660'	5" S.s fg, brn oil stn
5660' - 5667'	End of core

Core #10 - 5667' - 5750' - Recovered 83'

5667' - 5669'	5" Sltstn, dk gr, v hd, dns, lmy, vert frac
	S.s., dk gr, mg, sr, fri, v perm, blotchy flsn, wet?, no odor, blotchy stn
	5" Sltstn, lt gr, v hd, dns, lmy
5669' - 5672'	S.s., dk brn, mg, fri, v perm, slty, yel flsn, brn stn, gd pet odor, sr,
5672' - 5672½'	6" Sltstn, dk gr, v hd, dns, lmy
5672½' - 5679½'	S.s., dk brn, f-mg, fri, sr, v perm, slty, yel flsn, brn stn, gd pet odor, less fri below & more silty
	Sltstn,
5679½' - 5681'	Sh & Sltstn, dk gr, hd
5681' - 5683'	S.s., fg, dk gr-dk brn, hd, sr, blotchy flsn, yel blotchy brn stn, pet odor, possibly ti
5683' - 5684'	Sltstn, lt-dk gr, hd, bcm sh
5684' - 5687'	S.s., lt gr-tn, mg, sr, v perm, br yel flsn, blotchy tn stn
	4" Sh
5687' - 5688½'	S.s., f-mg, sr, fri, perm, blotchy brn stn & yel flsn
5688½' - 5689½'	10" Sh & Sltstn, dk gr, mott hd, irreg fracs
5689½' - 5692½'	S.s., f-mg, sr, v fri, perm, bri yel flsn, tn-brn stn, gd pet odor
5692½' - 5696'	Sltstn & Sh, pred sltstn, dk gr, hd, irreg fracs, mott app
5696' - 5698'	16" S.s., dk gr, fg, hd, perm? NSOF, sr
5698' - 5707'	5" S.s., gr, fg, sr, hd, dns, perm? NSOF
	Sh, dk gr, hd, pred irreg fracs, also fracs inlams
5707' - 5710½'	Sh aa
	4" S.s., fg-mg, sr, perm? tn & brn stn, free oil in frac, gd flsn & pet odor
5710½' - 5711'	10" Sltstn, lt gr, v hd
5711' - 5720'	Sltstn, a.a.
5720' - 5728½'	Bcm 50% Sltstn, dk gr, hd
5728½' - 5735'	Sh, pred dk, gr-grn
5735' - 5745'	Sltstn, lt-dk gr, v hd, dns, fw strks, dk gr sh
5745' - 5747'	Sh, dk gr grn, hd irreg fracs
5747' - 5748'	Sltstn, dk gr, hd
5748' - 5750'	S.s., lt gr, v hd, dns, sr, blotchy brn oil stn & bri yel flsn. bordors on sltstn, probably ti

Core #11 - 5750' - 5840' - Recovered 90'

5750' - 5756'	Sh & Sltstn (80% sh) Sh, dk gr brn, brtl, irreg fracs Sltstn, gr, v hd, irreg fracs, bed dips, visible v flat, mott
5756' - 5760½'	Bcm pred Sltstn 90%
5760½' - 5769½'	Bcm pred Sh 90%, irreg fracs tending in mott lams
5769½' - 5771'	Bcm pred Sltstn, vel, dk gr & lt gr
5771' - 5773'	fw strks lt gr & brn S.s., fg, pet odor, yel flsn
5773' - 5774'	2" gilsonite
5774' - 5781'	Sltstn, as
5781' - 5784'	Bcm pred Sh, dk gr, brtl, irreg fracs
5784' - 5793'	Bcm pred Sltstn, lt gr, v hd, strks sh inlams
5793' - 5802'	Bcm pred Sh, gr grn, hd, brtl, irreg fracs
5802' - 5812'	Bcm pred Sltstn, grn, hd, irreg fracs, lmy
5812' - 5824'	Bcm pred lt gr color, v hd, dns, irreg fracs
5824' - 5832'	Bcm pred Sh, dk gr, slty, brtl, irreg fracs
5832' - 5834'	Bcm Sltstn, gr, fri, irreg fracs
5834' - 5840'	S.s., fg, lt gr, sl fri, dns, slty strks dk brn oil stn s.s., pet odor, yel flsn

November 2, 1956

DST #2 Two hour formation test of interval 5664 - 5700, J - K, lower Green River sands.

Ran Halliburton tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" O.D. Drill Collars, sidewall anchor tool. Three 8" O.D. packers, hydraulic valve, Howco jars and safety jt. Set packers 5649', 5664' and 5700'. Sidewall anchor at 5715'. Opened valve 4.06 a.m. Ran 2 hours shut, closed for 30 minute shut-in test.

Strong initial blow. Gas to surface in 8 min. at 60 MCF/D. Declined to weak blow at end of test. Recovered 2650' net rise including 2560' gassy black high pour point oil which blew dry intermittently (29° API, 96° F. Pour Pt.) and 90' muddy water testing 200 ppm Cl⁻. Bottom recorder failed.

Charts:

	IH	IF	FF	SI	FH
Top BT	2820	90	698	2036	2820
Middle BT	2851	121	707	2090	2828

Diamond cored 8 7/8" hole 4½" drill pipe, 9.5 ppg mud

Core #12 - 5840' - 5930' - Recovered 90'

5840' - 5848'	Sltstn, gr-grn, dns, m hd, irreg fracs, lmy
5848' - 5855'	S.s., m-dk brn, fg, sr, fri, gd oil stn, dull gold brn flsn, fnt pet odor, wet?, slty, v perm
5855' - 5856'	Bcm patchy mott Sltstn
5856' - 5857'	Sltstn, gr, lmy, brtl, irreg fracs
5857' - 5860'	S.s., brn, mg, sr, v fri, gd oil stn, dull gold flsn

Core #12 (cont'd)

5860' - 5861'	Sltstn, gr grn, m fri, dns
5861' - 5865'	S.s., f-mg, dk brn, fri, gd oil stn, pet odor, mott dull gold & brn flsn, fw sltstn patches
5865' - 5866'	Sltstn, gr grn, m fri, dns
5866' - 5870'	Bcm patches S.s., dk brn, fg, gd oil stn, gold & yel flsn
5870' - 5872½'	S.s., v dk brn, f-mg, m fri, gd oil stn, fnt pet odor, sr, bleeding black oil, v perm
5872½' - 5873'	5" Sltstn strks sh inlams
5873' - 5875'	S.s., as, bcm m hd, patchy sltstn
5875' - 5879'	Sltstn, lt gr, m fri, sh inlams, mott app, fw s.s. strks, gd stn, tn flsn
5879' - 5883'	S.s., gr-tn, fg, hd, dns, low perm, strks sh in patches
5883' - 5886'	Bcm patch S.s., dk brn, gd stn, dull tan flsn
5886' - 5891½'	Sltstn, dk gr-grn, brtl, irreg fracs
5891½' - 5892'	3" S.s., mg, dk brn, v fri, gd oil stn
5894' - 5895½'	S.s., dk brn, mg, v fri, gd oil stn, tn flsn, fnt pet odor, v perm
5895½' - 5897'	Bcm patches gr grn S.s., wet?
5897' - 5898'	S.s., lt gr, mg, decr fri, perm, wet
5898' - 5900'	Sltstn, grn, dns, hd, irreg fracs, dns imperm
5900' - 5902'	Sltstn, lt gr, vfg, chalky, m fri, borders on vfg s.s.
5902' - 5904'	S.s., fg, gr, v hd, dns, irreg fracs, silty, poor sort, NSOF
5904' - 5905'	10" Sltstn, lt gr
5905' - 5907'	Bcm fnt oil stn & flsn
5907' - 5910'	Sltstn, gr, brtl, dns, mott app, fri, strks sh
5910' - 5912'	Bcm strks S.s., tn, dns, fg, imperm? NSOF 50%
5912' - 5914'	S.s., lt brn, f-mg, lt brn oil stn, sr, no flsn, sour odor
5914' - 5918'	Sltstn, vcl, lt gr, grn-tn, dns, vfg, imperm
5918' - 5922'	S.s., gr, vfg, hd, brtl, irreg fracs
5922' - 5924'	Sh, gr, grn, brtl, irreg fracs inlams
5924' - 5930'	Sltstn, gr-grn, vfg, dns, hd

Core #13 - 5930 - 6020 - Recovered 90'

5930' - 5933'	Sltstn, lt gr, dns, m hd, irreg fracs
5933' - 5939½'	S.s., gr, f-mg, sr, well sort, NSOF, silty, abd sph
5939½' - 5942'	Sltstn, lt gr, dns, m hd, irreg fracs
5942' - 5953½'	S.s., gr, f-mg, sr, well sort, m hd, irreg fracs, abd sph, NSOF
5953½' - 5959'	Sltstn, lt gr, dns, irreg fracs
5959' - 5968½'	Sh, dk gr, m hd, irreg fracs, tending inlams, strks sltstn, lt gr, lmy, fw pebs 1/4"
5968½' - 5978'	S.s., lt gr, f-mg, sr, well sort, abd sph, irreg fracs, NSOF, fri
5978' - 5980½'	Sltstn, tn, gr, lmy, abd sph, incl mg ss, bcms cgl, ti w/sh & pebs
5980½' - 5988'	Sltstn 80% & Sh(clystn); sltstn, lt gr, dns, v hd, irreg fracs; clystn, dk gr, silty, hd
5988' - 5993½'	Bcm pred Sh, a.a.
5993½' - 5996'	Sltstn, bcm pred sltstn, a.a.
5996' - 6000'	S.s., gr-tn, fg, hd, burnt odor, abd sph, fw oolites, NSOF
6000' - 6005½'	Sh, dk gr, hd, pred irreg fracs
6005½' - 6011'	Sltstn, lt gr-tn, v hd, irreg fracs, lmy, strks sh, dk gr

[illegible] (cont'd)

[illegible] - 6008½'	S.s., vfg, lt gr, dns, v hd, NSOF
6008½' - 6018'	Sltstn, aa, w/strks sh
6018' - 6020'	S.s., lt gr, vfg, v hd, dns, NSOF

[illegible] - 6020' - 6110' - Recovered 90'

6020' - 6025'	Sltstn, gr, chky, dns, v hd, strks dk gr sh, in mott app
6025' - 6029'	S.s., lt gr, vfg, dns, m hd, scat blk sph, strks sltstn & sh, mott app, NSOF
6029' - 6034½'	Sltstn, M. gr, dns, v hd, lmy, strks dk gr sh in mott pattern, irreg fracs
6034½' - 6041'	S.s., lt gr, m-fg, dns, m hd, sr, perm, NSOF
6041' - 6048½'	Sh, dk gr, brtl, fracs in lams, strks sltstn in mott pattern
6048½' - 6049½'	S.s., gr, vfg, dns, m hd, NSOF
6049½' - 6050'	6" Sh, a.a.
6050' - 6052½'	S.s., vel, brn & gr, fg, m hd, blotchy sltstn & flsn, fnt odor
6052½' - 6059'	Sltstn, dk gr grn, m hd, irreg fracs bcms lt gr col
6059' - 6062'	Sh, dk gr, brtl, hd, fracs in lams, strks sltstn
6062' - 6064'	S.s., vfg, lt gr, sl fri, sr, poor sort, NSOF
6064' - 6065'	Sh, dk gr, brtl, dns, hd
6065' - 6066½'	Sltstn, gr, dns, hd, incl small pebs
6066½' - 6068½'	S.s., vel, lt brn & gr, fg, sr, spotty oil stn & flsn, fnt pet odor
6068½' - 6076'	Sltstn, gr, dns, v hd, bcms shy w/strks dk gr sh
6076' - 6080½'	S.s., lt gr, vfg, chky, dns, m hd, sl fri, NSOF
6080½' - 6081½'	12" Sh, dk gr, brtl, w/strks sltstn
6081½' - 6093'	Dom gmg, fri, more perm, sr, well sort, abd asts
6093' - 6104'	Sltstn, lt gr, v hd, sh patches, dk gr grn
6104' - 6110'	Bcms no sh, also chky

[illegible] 8, 1956

[illegible] Fm hcrw formation test of interval 5848 - 5875, K sands, Basal Green River

[illegible] Halliburton tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" O.D. Drill Collars, sidewall anchor tool, three 8" O.D. packers, hydraulic valve, Howco jars and safety jt. Set [illegible] 5843, 5848 and 5875. Sidewall anchor at 5883'. Opened valve 4:05 a.m. for 2 hours [illegible] closed for 30 min. shut-in test.

[illegible] initial blow decreased in 2 min. to weak for remainder of test. Recovered 2262' in [illegible] 80' mud, 180' gassy muddy water and 2062' gassy water testing 260 ppm Cl⁻. (Mud [illegible] 60 ppm). Bottom chart indicates bottom packer held o.k.

[illegible]

	IH	IF	FF	SI	FH
[illegible]	2826	73	970	2150	2791
[illegible]	2843	168	1000	2178	2796

Core #15 - 6110' - 6194' - Recovered 79'

6110' - 6111'	Sltstn, gr, dns, hd, strks dk gr sh
6111' - 6111½'	S.s., lt gr, vfg, at top bcms fg, sr, below, fw clystn incl, scat blk sph, app wet, perm
6111½' - 6115'	5" Sltstn
6118'	3" oil stn, dull gold flsn, pet odor
6122½' - 6123½'	10" Sltstn, gr, dns, v hd, dk gr sh strks
6123½' - 6124'	S.s., tn, f-mg, no flsn, no odor, poss stn, app wet
6124' - 6126'	Sltstn, dk gr, cly
6126' - 6130'	S.s., lt brn, f-mg, sr, perm, vcl, oil stn, dull gold flsn, pet odor, bcm no stn below
6130' - 6132'	Sltstn, lt gr, mott w/gr grn clystn
6132' - 6132½'	Sh, clystn, gr grn
6132½' - 6133'	Rd brn clystn patches, first occurance Wasatch
6135' - 6144'	a.a., w/scat clusters rd brn clystn
6144' - 6147'	Clstn, red brn, vcl, badly washed
6147' - 6159'	Sltstn, gr-grn, v hd, dns, scat strks dk gr clystn, sh
6159' - 6160½'	18" abd osts
6162' - 6166'	Bcm abd strks sh, a.a.
6166' - 6167'	10" Ost coq
6167' - 6170½'	Sh, clystn, dk gr grn
6170½' - 6172'	Sh, clystn, bcm rd brn, vcl
6172' - 6178'	Sltstn, vcl, lt gr-gr, dns, v hd, lmy
6178' - 6181'	Ost coq, colic
6181' - 6185'	Oil stn in fracs
6185' - 6188½'	Sltstn, gr-dk gr, mott, v hd, irreg fracs in lams
6188½' - 6190'	8" S.s., fg, sr, slty, abd ost, oil stn?
6190' - 6194'	Lost recovery 5' possibly above in clystn sections

Core #16 - 6194' - 6278' - Recovered 74'

6194' - 6196'	Sh, purple, blk, m sft, slty
6196' - 6198'	Sltstn, gr, v hd, irreg fracs
6198' - 6199'	Bcm Sh, gr, clystn
6199' - 6202'	Bcm mott w/brn rd col
6202' - 6206½'	Sltstn, gr, v hd, a.a.
6206½' - 6207½'	Bcm mott w/brn red col clystn
6207½' - 6211½'	Bcm all gr, v hd, a.a.
6211½' - 6213'	Sh, red brn, vcl, mott w/gr grn, purple, etc.
6213' - 6220'	Sltstn, gr, v hd, dns, irreg fracs
6220' - 6229'	Sh, red brn, vcl, mott w/purple, gr, & grn
6229' - 6230'	Sltstn, gr, chky, m hd, dns
6230' - 6232'	S.s., fg, gr, w/brn stn, scat, m fri, dull gold flsn, extremely penetrating irritating sour odor. (Carbide)
6232' - 6237½'	Sltstn, gr, hd, irreg fracs, odor a.a.
6237½' - 6241½'	Sh, brn rd, vcl w/grn, etc, odor a.a.
6241½' - 6249'	Sltstn, gr, hd, v hd, irreg fracs
6249' - 6253'	S.s., purple, brn, fg, even oil stn & dull gold flsn
6253' - 6257'	Bcm spotty stn, patchy sltstn, gr, v hd
6257' - 6260'	Sltstn, gr, v hd, dns
6260' - 6262'	Sh, gr grn
6262' - 6268'	Bcms red brn, vcl m sft
6268' - 6278'	No recovery

December 11, 1956

Ran Schlumberger Electric Log and Microlog - Caliper. Recorded intervals: Electric Log - 6255' - 425'; Microlog - 6264' - 2800'.

MARKERS

Top Green River	3167'	(SS + 2310')
H Point	5034'	(SS + 443')
K Point	5712'	(SS - 235')

Lost and regained circulation after logging.

December 12, 1956.

Attempted test interval 6216 - 6278. No packer seat.

December 13, 1956.

DST #4 Two hour formation test of interval 6255' - 6278', K Sands, Basal Green River.

Ran Halliburton Tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" O.D. Drill Collars, 5 3/4" K 23' perf anchor, two 8" packers, hydraulic valve, Howco jars and safety joint. Set packers 6255' and 6248'. Opened valve 7:49 a.m. for 2 hours then closed for 30 min. shut-in test.

Mild blow 5 min. Decreased to weak in 10 min. for remainder of test. Recovered 400' rise, including 45' oil (33.5° API - 105° Pour Pt) and 255' oily muddy water testing 5080 ppm Cl^- above tools.

Charts:

	IH	IF	FF	SI	FH
Top BT	3060	52	176	1728	2992
Bottom BT	3074	88	135	1737	3012

Diamond Cored 8 7/8" hole 4½" D.P., 9 ppg mud.

Core #17 - 6282' - 6359' - Recovered 77'

6282' - 6290½'	Sh, clystn & mudstn, red brn, vcl, badly washed
6290½' - 6303'	Siltstn, gr-lt gr, dns, m hd, sdy, chky
6303' - 6304½'	Scms mott w/red brn sh (clystn)
6304½' - 6309'	Sh, clystn & mudstn, red brn, sft, badly washed
6309' - 6313'	Sh, a.a., m hd, not washed, mott w/gr siltstn
6313' - 6320'	Siltstn, gr-lt gr, dns, m hd, sdy, ti
6320' - 6327'	S.s., gr, buff, fg, m hd, ti, carbide odor, lt brn spotty stn
6327' - 6339'	Scms mg, brn, evn stn, carbide odor, perm, scms scat pebs, cgl
6339' - 6342'	Siltstn, dk gr, mott w/brn red clystn
6342' - 6350'	Sh, red brn, vcl, clystn & mud stn, badly washed as indicated
6350' - 6359'	Siltstn, gr, v hd, dns

December 15, 1956

Ran Halliburton Electric Log and Microlog - Caliper. Recorded interval 6359' - 6265'.

MARKERS

Test #1. 50 minute formation test of interval 6328 - 6359, K Sands, Basal Green River.

Ran Halliburton Tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" D.C., 5 3/4" X 31' perforated anchor, two 8" packers, hydraulic valve, Howco jars and safety joint. Set packers at 6328' and 6323'. Opened valve 7:58 p.m. for 50 min. then closed for 30 min. shut-in test.

Initial blow immediately. Gas to surface in 6 minutes. Flow pitot tube meas - 480 MCF/D in 15 minutes. Fluid in 20 min. Flowed estimated 250 B/D oily water & 500 MCF/D gas for remainder of test. Fluid cut approximately 95%. Flow sample of water tested 8000 ppm Cl⁻. Pressure during bleed off after closing valve. Recovered 365' rise, including 100' oily water (approximately 85% cut). Oil appears high gravity and low pour pt, possibly due to condensate. Bottom 265' oily water.

Charts:

	IH	IF	FF	SI	FH
Top [illegible]	3015	200	755	2485	2920
Bottom [illegible]	3010	290	790	2670	2940

Laid down 4½" drill pipe.

November 16, 1956

Cemented 7", 23# casing at 5800' in two stages.
(Stage Coll. collar at 5200')

First Stage: Howco mixed 60 sacks Control mix to 12½ ppg slurry and followed with 100 sacks neat Type I cement mixed to 15½ ppg slurry. 15 minutes mixing and 5 minutes pumping in 19 bbl mud spacer. 55 min. displacing DV opening plug with 210 bbl mud. Pressure dropped 800 psi to 200 psi. Circulation partial only after 40 min. Pumped 10 bbl. through ports and started second stage.

Second Stage: Mixed 175 sacks Controlmix to 12½ ppg slurry and followed with 100 sacks neat Type I cement mixed to 15½ ppg. Closure plug ahead last 5 sacks. 45 min. gas mixing (truck failed) and 23 minutes displacing. Unable to reciprocate casing after first stage. Cement in place 8:45 p.m.

December 16, 1956.

[illegible]

[illegible]	[illegible] jts.	1028'	7" O.D. 23# N-80 Rg 3 new Republic seamless casing with 8 rd LT&C. Includes Baker Guide Shoe and Baker Differential Float Collar 2 joints up. Centralizers 5' above shoe and collars approximately 5655', 5155' and 5070'. Scratchers 5155 - 5164'. Howco DV collar at 5200'.
[illegible]	120 jts. or	4787'	7" O.D. 23# J-55 Rg 3 new National seamless with 8 rd LT&C.
Total	124 jts. or	5815'	
Above K.B.		15'	
Landing at		5800'	

[illegible]

Landed [illegible] casing with 49 tons tension 15' below K.B. leaving 5785' of casing cemented at [illegible] (5717 at 5200')

[illegible]

[illegible] and located top annular cement at 3750'.

[illegible] hours. Made up 2 7/8" tubing.

[illegible] cement & D.V. collar 5180' - 5205'. D.O. cement 5678' - 5730'.

[illegible] with 8.8 ppg oil base mud.

[illegible] 1956.

[illegible] Gamma Ray Collar Locator Log. [illegible] interval 5730 - 4500'. Showed DV collar at 5202' (casing measurement 5200').

[illegible] following intervals with 3 jets and 4 bullets per foot using collars for [illegible].

[illegible] Depth	Gamma Ray Depth	Core Depth
[illegible]	5665 - 5693	5666 - 5694
[illegible]	5136 - 5150	5137 - 5151
[illegible]	5106 - 5132	5107 - 5133

[illegible] 22, 1956.

[illegible] to 5750'.

[illegible] perforations 5660' - 5688')

[illegible] Full-Bore Retrievable Cementer on 2 7/8" tubing. Spotted 2 barrels of Burner [illegible] perfs. Pulled up and set cementer at 5640' after clearing tubing with [illegible]. Pressured annulus to 1000 psi. Halliburton broke down formation with 3500 [illegible] pumped in 35 barrels Rangely crude in 5 minutes. Followed with 125 barrels B.F. #5 [illegible] 1.2 #/ gal. 20-40 Ottowa sand in 27 minutes. Followed with 62 barrels Rangely [illegible] 23 barrels B.F. #5. Injected 135 plug-off balls after 100 barrels of sand oil [illegible] pressure 3900 psi. while displacing in 15 minutes. Final pressure 1200 psi. [illegible] off after 15 minutes. Shut in after 15 min. bleeding for additional 45 [illegible]. Then flowed for 3 hours steady rate until formation crude appeared. (65 barrels [illegible]) Opened packer bypass and bled tubing to dead in 30 minutes.

[illegible] 1956.

[illegible] perforations 5134' - 5148' and 5104' - 5130')

[illegible] Retrievable Bridge Plug and Full Bore Retrievable Cementer. Set bridge plug 5172'. [illegible] with B.F. #5 and set cementer 5089'. Pressured annulus to 1000 psi. Break- [illegible] to 2000 psi. Halliburton pumped in 30 barrels Rangely crude. Followed with 185 [illegible] #5 mixed with 1.5 #/gal. 20-40 Ottowa sand. Followed with 30 barrels Rangely [illegible] finally 31 barrels B.F. #5. Max pressure 2000 psi. Displacement times indicate- [illegible] numerous equipment failures. After 1 hour shut-in bled 1½ hours constant flow [illegible]. Opened packer bypass and filled annulus. Found sand fill over bridge plug. [illegible] and pulled without recovering bridge plug. Reran and recovered bridge plug.

[illegible] 1956.

[illegible] tubing at 5619'.

[illegible]	1 jt.	or 31'	2 7/8" UE 6.5# J-55 Range 2 perforated stinger with orange peeled end. 8 rd T&C.
[illegible]	179 jts.	or 5575'	2⅞" UE 6.5# J-55 Range 2 & 3 8 rd T&C. PSN #16625 (Axelson 2⅞ x 45) at 5557' below K.B.
[illegible]	1 jt.	or 30'	
[illegible]		13'	
Hung		5619'	

[illegible] flowed for production test. After producing back 165 barrels switched flow to [illegible] tank. Produced total 542 barrels gross to formation crude tank with approx. [illegible] water cut. Gauge last 9 hours 192 barrels gross with 35-40% water cut.

[illegible] with B.F. #5 and shut well in.

[illegible] 1956.

[illegible] December 25, 1956.

[illegible] and moved out.

W. E. WHITNEY

[illegible]

O+G CC

13

RE-COMPLETION REPORT

STANDARD OIL COMPANY OF CALIFORNIA

FIELD: Red Wash PROPERTY: Section 18B

WELL NO: 14-18B (52) Sec. 18 T. 7 S. R. 23 E. S. L.B. & M.

Following is complete and correct record of all work done on the well since the previous record dated 1-9-57

PURPOSE OF WORK: To exclude water.

DATE OF REPORT: December 28, 1959 BY C. V. CHATTERTON 2/15/60
Supt. Manager, Producing Department

WORK DONE BY: R & R Well Service

COMMENCED OPERATIONS: 3-13-59 COMPLETED OPERATIONS: 3-25-59

DATE WELL LAST PRODUCED: 3-12-59 DATE RETURNED TO PRODUCTION: 3-26-59

PRODUCTION:	PRIOR TO WORK		AFTER WORK	
Oil	59	B/D	227	B/D
Water	34	B/D	13	B/D
Gas	11	Mcf/D	165	Mcf/D
Gravity	28.5	°API	28.5	°API
Tubing	50	PSIG	200	PSIG
Casing	15	PSIG	400	PSIG
Method of Production: Pumping	x		x	
Flowing				
Gas Lift				

SUMMARY

T. D. 6359'

Effective Depth 5730'

Casing: 7", 23#, J-55, N-80 cemented 5800'
C.P. @ 5201'

Perforations: 5104-5130) sealed with
5134-5148) cement &
excluded.
5660-5688

WELL NO: 14-18B (52) PROPERTY: Section 18B RED WASH FIELD

HISTORY

Subject well 14-18B (52) was completed in December 1956, for an IP of 106 B/D oil, 48 B/D water and 39 MCF/D. By January 1958 water production had increased to 112 B/D, and by February 1959 was producing 225 B/D water.

It is proposed to re-enter subject well and exclude water and also increase oil production by 50 B/D.

PROGRAM

1. Move in workover rig, circulate well with water, pull rods and tubing.

   a. If heavy waxing condition is indicated, run scraper before proceeding with step 2.

2. Run straddle tester on tubing, straddle perf'd interval 5660-5688' and swab test to determine:

   a. That high head water entry is not from this zone.

   b. Zone has adequate productivity without additional stimulation. If additional stimulation is indicated it will be carried out at a later stage in the program.

3. Set tester to straddle HOWCO DV collar at 5200', swab fluid down and establish that collar is not leaking.

4. If no high head water is encountered from the lower perforations (5660-5680') or from the DV collar, set drillable bridge plug about 5170' and magnesium Model K retainer at 5070' and squeeze perforated intervals 5104-5130' and 5134-5148' with cement.

   a. Have 150 sax cement on hand.

   b. Use hesitation squeeze. If satisfactory pressure build up is not obtained displace cement beyond perforations, pull out of retainer, stand 4 hours, stab back into retainer and repeat squeeze job.

5. Drill out retainer and cement to 5160', and pressure test with max. rig pump pressure. Drill out remaining cement and bridge plug and clean out to 5730'.

6. If deemed necessary, sand-oil squeeze perforated interval 5660-5668'.

7. Rerun tubing as before and return well to production.

WORK DONE

March 13, 1959
R & R Well Service moved in and rigged up.
Displaced well with 260 bbls Rangely crude.

March 14, 1959
Pulled rods. Installed BOP

WELL NO: 14-18B (52) PROPERTY: Section 18B RED WASH FIELD

March 15, 1959
Finished pulling tubing.
Ran paraffin scrapper and scrapped to bottom and circulated out paraffin.

March 16, 1959
Ran mill shoe and plugged tubing with paraffin. Finally circulated well clean.

March 17, 1959
Set straddle packers at 5654 and 5694.
Rigged up and swabbed interval 5660-5688.
Swabbed burner fuel and Rangely crude with fluid level at 300'.

March 18, 1959
Swab testing zone 5660-5688', packers set @ 5654 and 5694 (Halliburton straddle packers made 46 swab runs to 1800', fluid level standing @ 1000'). Swabbed oil and water for 31 runs, approximately 139 bbls. Made 15 runs believed to be mostly Red Wash Crude and a small amount of water. First fluid believed to have been a blend of Red Wash crude and Rangely crude. Total swabbed and flowed 240 bbls.

March 19, 1959
Well flowed @ est. 80 BOPD for 3 hrs. oil Red Wash crude. Zone 5660-5688'. Moved straddle packers up hole and tested DV collar @ 5200'. Made swab run after 30 min., pulled dry. Ran swab to 5150'.

March 20, 1959
Pulled straddle packers, set Model K Bridge plug @ 5171' and retrievable retainer @ 5072'. Halliburton squeezed away 150 sx regular cement by hesitation method. Final press. 3500 PSI. Zone squeezed 5104-5130 and 5134-5148'.

March 21, 1959
Located top of cement at 5057'. Drld. out cement to 5099'.

March 22, 1959
Drilled out cement from 5099 to 5114'.
Circulated 1/2 hr. on bottom and shut well in for night.

March 23, 1959
Drilled out hard cement from 5114 to 5161.
Tested cement scab 5104-5148 w/1400 PSI pressure for 30 min. No bleed off. Scab holding okay.

March 24, 1959
Drilled out cement and Model K Bridge plus and cleaned out to 5730'.
Landed 2½" tub @ 5599'
Detail:

Bottom 1 jt.	30.96'	2½" EUE perf'd gas anchor
Next	10.00'	2½" EUE pup jt
Next	1.00'	PSN
Next 179 jts.	5543.85'	2½" EUE 6.5# J-55 tbg.
Top	12.58'	KB to tbg head
Landed	5598.66'	

Tore out BOP

WELL NO: 14-18B (52) PROPERTY: Section 18B RED WASH FIELD

March 25, 1959
Ran rods and pump
Detail:
AX Pump #45 - 3 top Cup
134 - 3/4 x 25' rods
87 - 7/8 x 25' rods
1 - 8' x 7/8" sub
2 - 2' x 7/8" sub
1 - 22' x 1¼ Poney rod.
Crew released.

Form 9-331a
(Feb. 1951)

X			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Salt Lake City
Lease No. U-0116
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	X	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			
Notice to Exclude Water	X		

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

Vernal, Utah March 10, 1959

Well No. 14-18B is located 660 ft. from {N/S} line and 592 ft. from {E/W} line of sec. 18

SW 1/4 SW 1/4 18 (¼ Sec. and Sec. No.) 7S (Twp.) 23E (Range) SLBM (Meridian)

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

The elevation of the derrick floor above sea level is 5430 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)

1. Move in, circulate with water, pull tubing & rods.
2. Run straddle tester, straddle perforated interval 5660-5688' & swab test to determine:
   a. High head water entry is not from this zone.
   b. Zone has adequate productivity without additional stimulation.
3. Set tester to straddle HOWCO DV collar @ 5200' to determine that collar not leaking.
4. Set drillable BP at approximately 5170' and magnesium retainer @ 5070' and squeeze perforated interval 5104-5130' & 5134-5148' with cement.
5. Drill out retainer and cement to 5160' & pressure test. Drill out remaining cement and bridge plug and clean out to 5730'.
6. If required, sand oil squeeze perforated interval 5660-5668'.
7. Run tubing & rods and return to production.

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

Company Standard Oil Company of California, Western Operations, Inc.

Address P. O. Box 455

Vernal, Utah

By C. V. Chatterton

Title District Superintendent

3/12/59

USGS-3; O&GCC-1; Gulf-1; Caulkins-1; CWG-1; File-1.

U. S. GOVERNMENT PRINTING OFFICE: 1958 O - 463339

CALIFORNIA OIL COMPANY
WESTERN DIVISION
P. O. BOX 455 · VERNAL, UTAH

July 3, 1961

The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City, Utah

Gentlemen:

Enclosed is one copy each of the Electrical Log and Microlog of the following wells as you requested by letter dated June 14, 1961:

Red Wash #52 (14-18B)
Sec. 18 - 7S - 23E

Red Wash #54 (43-14A)
Sec. 14 - 7S - 22E

Red Wash #55 (41-21A)
Sec. 21 - 7S - 22E

Sincerely yours,

CALIFORNIA OIL COMPANY

R. L. Green/ECW

R. L. GREEN
Division Superintendent

RLG:cc

CC: File

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 U.S.A. Inc.

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 623' FWL (SWNW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-02030

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Red Wash

8. FARM OR LEASE NAME

9. WELL NO.
127 (12-19B)

10. FIELD OR WILDCAT NAME
Red Wash

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 19, T7S

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
KB 5439

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.)*

This well was acidized as follows:

1. MIRU, POOH W/TBG, PMP & RODS.
2. MADE RUN W/BIT & SCRAPER. C/O 5680-5700'.
3. ACIDIZED PERFS 5658-86' & 5573-98' w/15% HCL. SWB & TSTD PERFS. POOH W/PKR & RBP
4. RIH W/PROD. STRING., ND BOPE, NU TREE.
5. RD & M.O.L.

3-USGS
2-State
3-Partner
1-Field Foreman
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 Erin M. Leonard TITLE Engineering Asst. DATE April 6, 1982

(This space for Federal or State office use)

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

WELL NAME RWU 127 (12-19B)

FIELD NAME Red Wash

COMPLETED TREATMENT PROCEDURE

1. Size and type of treatment: 15% HCL (4600 gals)

2. Intervals treated: 5658-86', 5573-98'

3. Treatment down casing or tubing: Tbg.

4. Methods used to localize effects: Benzoic acid flakes.

5. Disposal of treating fluid: Spent acid was swbd to frac tank.

6. Depth to which well was cleaned out: 5700'

7. Date of work: 11-20-81

8. Company who performed work: HOWCO

9. Production interval: 5658-5573

10. Status and production before treatment:

Date	BOPD	MCFD	BWPD
4/65	WELL SHUT IN		

11. Status and production after treatment:

Date	BOPD	MCFD	BWPD
10/81	13		25

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, CO

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 592' FWL
AT TOP PROD. INTERVAL: (SWSW)
AT TOTAL DEPTH:

5. LEASE
U-0116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Red Wash

8. FARM OR LEASE NAME

9. WELL NO.
52 (14-18B)

10. FIELD OR WILDCAT NAME
Red Wash

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18, T17S, R23E

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

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
GR 5430

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)			

RECEIVED
APR 14 1982
DIVISION OF
OIL, GAS & MINING

(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.)*

This well was acidized as follows:

1. MIRU, hot oil csg. & tbg, POOH w/rods & tbg. Made run with bit & scraper. C/O to 5730' RIH w/Pkr.
2. Perfed 5104-30 & 5134-48 w/2 spf. Breakdown perfs w/2% KCL., SWBD Perfs.
3. Acidize Perfs 5660-88'.
4. Swb. & tested Perfs. POOH w/Pkr.
5. RIH w/prod. string, ND BOPE, NU TREE.
6. RIH w/pump & rods, RD MOL.

3 - USGS
2 - State
3 - Partners
1 - Field Foreman
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 Erin M. Leonard TITLE Engineer Asst. DATE January 27, 1982

(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 52(14-18B)

FIELD NAME Red Wash Unit

COMPLETED TREATMENT PROCEDURE

1. Size and type of treatment: 4000 gals. 15% HCL

2. Intervals treated: 5660-88'

3. Treatment down casing or tubing: TBG

4. Methods used to localize effects: Ball sealers were used as diverting agents.

5. Disposal of treating fluid: Spent acid was swbd. back to frac tanks.

6. Depth to which well was cleaned out: 5730

7. Date of work: 12-15-81

8. Company who performed work: HOWCO

9. Production interval: 5104-5148 5660-88

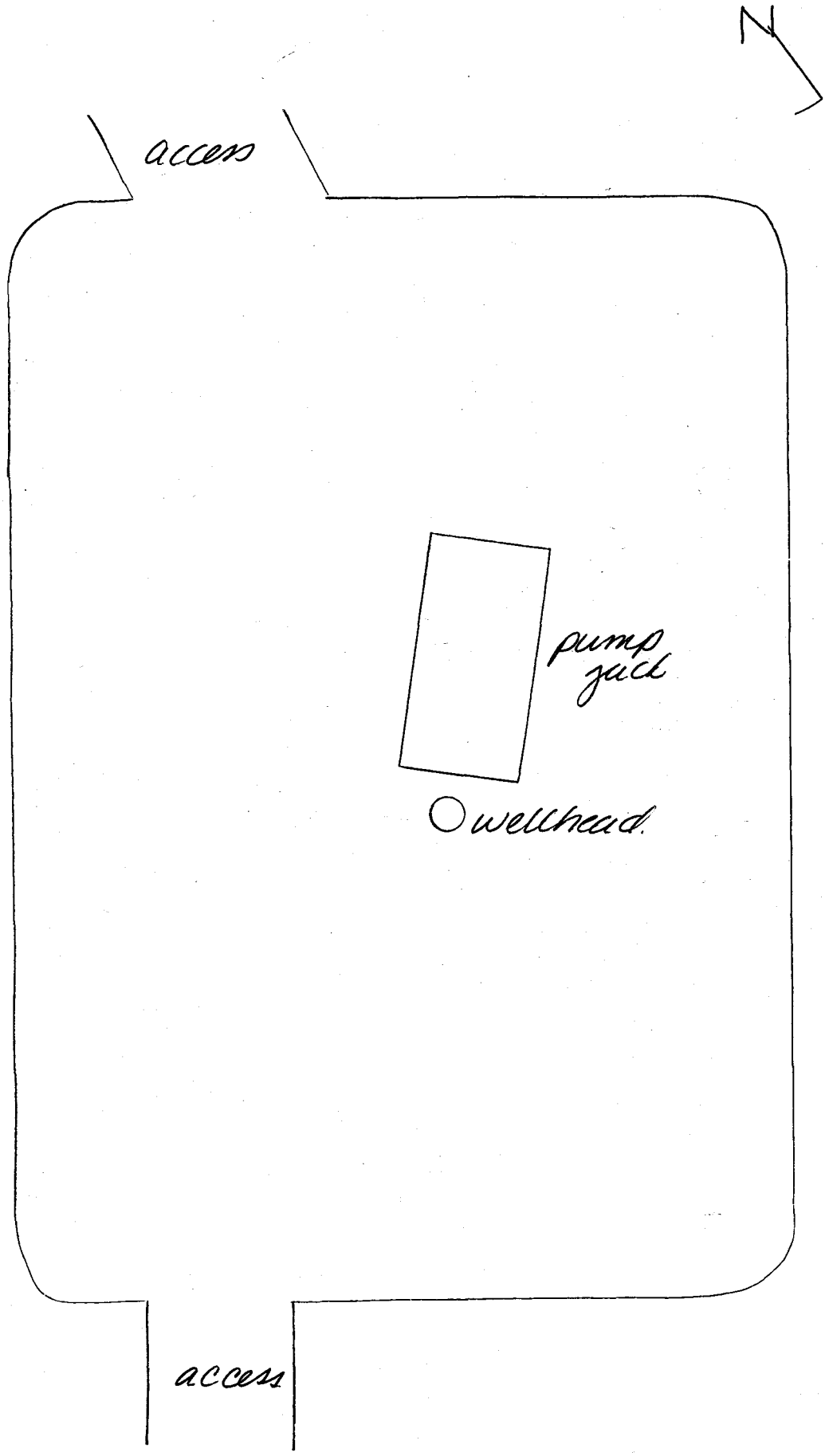
10. Status and production before treatment:

Date	BOPD	MCFD	BWPD
Well Shut-In since 12/65			

11. Status and production after treatment:

Date	BOPD	MCFD	BWPD
2-82	465	464	420

RWU 52 14-18B Sec18, 7So, 23E Chubby 14-20E88



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

5. Lease Designation and Serial No.
U-0116

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Red Wash

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

8. Well Name and No.
52 (14-18B)

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

9. API Well No.
43-047-15178

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

10. Field and Pool, or Exploratory Area
Red Wash

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL, 592' FWL
Section 18, T~~17~~ 07S-R23E

11. County or Parish, State
Uintah, Utah

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 Shut In	[ ] 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 9/1/91 the subject well is shut in.

RECEIVED
SEP 19 1991
DIVISION OF
OIL GAS & MINING

3-BLM
3-State
1-JRB
1-Well File
1-JLW
1-REK
1-Sec 724R
1-COS
2-Partners

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Permit Specialist Date 9/13/91

(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

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.
U - 0116

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
RED WASH

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

8. Well Name and No.
52(14-18B)

2. Name of Operator
CHEVRON U.S.A. PRODUCTION CO.

9. API Well No.
43-047-~~14178~~ 15178

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660 FSL, 592 FWL, SEC. 18, T7S, R23E

11. County or Parish, State
UINTAH, UTAH

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 STATUS	[ ] 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.)

THIS WELL IS SHUT IN WHILE UPGRADING WELL TEST FACILITIES. WE WILL RE-EVALUATE STATUS AFTER WELL TEST FACILITIES UPGRADES HAVE BEEN COMPLETED.

3 - BLM
3 - STATE
1 - JTC
1 - WELL FILE
1 - JLW

RECEIVED
APR 15 1992
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed J.T. Wilson Title PERMIT SPECIALIST Date 4/6/92

(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

5. Lease Designation and Serial No.
U-0116

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Red Wash Unit

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

8. Well Name and No.
RWU #52 (14-18B)

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

9. API Well No. 15178
43-047-~~14179~~

3. Address and Telephone No.
P.O. Box 455, Vernal, Utah 84078 (801) 789-2442

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660 FSL, 592 FWL, SEC. 18, T7S, R23E

11. County or Parish, State
Uintah, Utah

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 _____	[ ] 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.)

Well test facility upgrades were completed in 1992. We plan to re-evaluate this shut-in production well during 1993.

RECEIVED
FEB 18 1993
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Lana Mough Title Oper. Assistant Date 02/10/93

(This space for Federal or State office use)

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

FVLARB-6.BLM (JRL #2)

Chevron

Chevron U.S.A. Inc.
P.O. Box 455, Vernal, UT 84078 • Phone (801) 789-2442

FEBRUARY 15, 1993

ANNUAL REPORT OF
SHUT-IN WELLS
WONSITS VALLEY STATE/FEDERAL UNIT
UINTAH COUNTY, UTAH

BUREAU OF LAND MANAGEMENT
170 SOUTH 500 EAST
VERNAL, UT 84078

GENTLEMEN:

Enclosed, please find the annual report of shut-in wells in Red Wash Unit. If you have any questions, please call the above address.

Sincerely,

J T Conley

J.T. CONLEY
AREA OPERATIONS SUPERVISOR

sdm
Enclosures

cc: State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RECEIVED
FEB 18 1993
DIVISION OF
OIL GAS & MINING

Chevron U.S.A. Inc.
P.O. Box 455, Vernal, UT 84078 • Phone (801) 789-2442

FEBRUARY 15, 1993

ANNUAL REPORT OF
SHUT-IN WELLS
RED WASH UNIT
UINTAH COUNTY, UTAH

BUREAU OF LAND MANAGEMENT
170 SOUTH 500 EAST
VERNAL, UT 84078

GENTLEMEN:

Enclosed, please find the annual report of shut-in wells in Red Wash Unit. If you have any questions, please call the above address.

Sincerely,

J.T. Conley

J.T. CONLEY
AREA OPERATIONS SUPERVISOR

sdm
Enclosures

cc: State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Buttram Energies, Inc.
6303 Waterford Boulevard, Suite 220
Oklahoma City, OK 73116

RECEIVED
FEB 18 1993
DIVISION OF
OIL GAS & MINING

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED SEP - 1

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

5. Lease Designation and Serial No.
U-0116

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
RED WASH UNIT

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

8. Well Name and No.
RWU #52 (14-18B)

2. Name of Operator
CHEVRON U.S.A. PRODUCTION COMPANY

9. API Well No.
43-047-15178

3. Address and Telephone No.
11002 EAST 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-4302

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL, 592' FWL, Sec. 18, T7S/R23E

11. County or Parish, State
UINTAH, UTAH

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

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

TA approval is requested for this well, pending evaluation of continued oil production potential, gas recompletion potential or conversion to a secondary use.

14. I hereby certify that the foregoing is true and correct
Signed Gloria Hugh Title **Operations Assistant** Date **08/25/94**

(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**

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP - 1 1994

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

5. Lease Designation and Serial No.
U-0116

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
RED WASH UNIT

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

8. Well Name and No.
RWU #52 (14-18B)

2. Name of Operator
CHEVRON U.S.A. PRODUCTION COMPANY

9. API Well No.
43-047-15178

3. Address and Telephone No.
11002 EAST 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-4302

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL, 592' FWL, Sec. 18, T7S/R23E

11. County or Parish, State
UINTAH, UTAH

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

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

TA approval is requested for this well, pending evaluation of continued oil production potential, gas recompletion potential or conversion to a secondary use.

14. I hereby certify that the foregoing is true and correct
Signed Sharla Hough Title **Operations Assistant** Date **08/25/94**

(This space for Federal or State office use)

Approved by: Title Date

Conditions of approval, if any

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***See instruction on Reverse Side**

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 27 1995
DIV. OF OIL, GAS & MINING

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

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-0116

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

7. If Unit or CA, Agreement Designation
RED WASH UNIT

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

8. Well Name and No.
RED WASH UNIT 52 (14-18B)

2. Name of Operator
CHEVRON U.S.A. PRODUCTION COMPANY

9. API Well No.
43-047-15178

3. Address and Telephone No.
11002 E. 17500 S. VERNAL, UT 84078-8526
Steve McPherson in Red Wash (801) 781-4310
or Gary Scott in Rangely, CO. (970) 675-3791

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL & 592' FWL (SWSW) SECTION 18, T7S, R23E,SLBM

11. County or Parish, State
UINTAH, UTAH

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

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

WE ARE REQUESTING AN EXTENSION OF THE TEMPORARILY ABANDONED STATUS OF THIS WELL.

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

14. I hereby certify that the foregoing is true and correct.
Signed G.D. SCOTT G. D. Scott Title DRILLING TECHNICIAN Date September 26, 1995

(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

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.: U-0116

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

7. If Unit or CA, Agreement Designation: RED WASH UNIT

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

8. Well Name and No.: Red Wash Unit 52 (14-18B)

2. Name of Operator: CHEVRON U.S.A. PRODUCTION COMPANY

9. API Well No.: 43-047-15178

3. Address and Telephone No.: 11002 E. 17500 S. VERNAL, UT 84078-8526
Steve McPherson in Red Wash (801) 781-4310
or Gary Scott in Rangely, CO. (970) 675-3791

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 660' FSL & 592' FWL (SW SW) SECTION 18, T7S, R23E, SLBM

11. County or Parish, State: UINTAH, UTAH

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

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

CHEVRON IS REQUESTING TA APPROVAL ON THE ABOVE WELL. THIS WELL MAY BE NEEDED IN A POSSIBLE WATER FLOOD REALIGNMENT. A UIC PERMIT APPLICATION HAS BEEN SUBMITTED TO CONVERT THIS WELL TO A CLASS II (ER) WATER INJECTOR.

RECEIVED
NOV 1 3 1996
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Signed G.D. SCOTT *G.D. Scott* Title DRILLING TECHNICIAN Date November 5, 1996

(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

1936

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
NOV 21 1996
DIV. OF OIL, GAS & MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR: **CHEVRON USA PRODUCTION CO., INC.**
ADDRESS: **11002 EAST 17500 SOUTH**
VERNAL, UT 84078-8526

(801) 781-4300

WELL NAME AND NUMBER:	**RED WASH UNIT #52 (14-18B)**
FIELD OR UNIT NAME:	**RED WASH UNIT**
WELL LOCATION:	**SWSW-SEC. 18-T7S-R23E, SLBM**

Is this application for expansion of an existing project?		**[X] Yes**	**[ ] No**
Will the proposed well be used for:	Enhanced Recovery?	**[X] Yes**	**[ ] No**
	Disposal?	**[ ] Yes**	**[X] No**
	Storage?	**[ ] Yes**	**[X] No**
Is this application for a new well to be drilled?		**[ ] Yes**	**[X] No**
If this application is for and existing well, has a casing test been performed on the well?		**[ ] Yes**	**[X] No**

Date of test: **Other than routine workover tests, none**
API Number: **43-047-15178**

Proposed Injection Interval: from **5629'** to **5714'**

Proposed maximum injection: **Rate 1000 Pressure 1936 psig**

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

IMPORTANT: Additional information as required by R649-5-2 should accompany this form.

List of Attachments: Area UIC Permit Application package as submitted to United States Environmental Protection Agency.

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

Name:	**J. T. Conley**	Signature	J T Conley
Title:	**Red Wash Asset Team Leader**	Date	11-20-96
Phone No.	**(801)781-4301**		

(State use only)
Application approved by _____ Title _____
Approval Date _____

Form Approved OMB No. 2040-0042. Expires 3-31-95

Form 4 UIC

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNDERGROUND INJECTION CONTROL PERMIT APPLICATION

(Collected under the authority of the Safe Drinking Water Act, Section 1421, 1422. 40 CFR 144)

I. EPA NUMBER			
U		T/A	C

READ ATTACHED INSTRUCTION BEFORE STARTING

FOR OFFICAL USE ONLY

Application approved mo	day	year	Date Received mo	day	year	Permit / Well Number	Comments

II. NAME AND ADDRESS OF FACILITY			III. OWNER / OPERATOR AND ADDRESS		
Facility Name **Red Wash Unit #52**			Owner / Operator Name **Chevron U.S.A. Production Company**		
Street Address **11002 East 17500 South**			Street Address **11002 East 17500 South**		
City **Vernal**	State **UT**	ZIP Code **84078-8526**	City **Vernal**	State **UT**	ZIP Code **84078-8526**

IV OWNERSHIP STATUS (*Mark 'x'*)	V. SIC CODES	
☒ A. Federal ☐ B. State ☐ C. Private	**1311**	
☐ D. Public ☐ E. Other (*Explain*)		

VI. WELL STATUS (Mark 'x')				
☒ A. **Operating**	Date Started mo / day / year	☒ B. Modification / Conversion	☐ C. Proposed	
		Changing from oil production well to enhanced recovery injection well		

VII. TYPE OF PERMIT REQUESTED (*Mark 'x' and specify if required*)			
☒ A. Individual ☐ B. Area	Number of Existing wells **1**	Number of Proposed wells **1**	Name(s) of field(s) or project(s) **Red Wash Unit #52**

VII. CLASS AND TYPE OF WELL (*see reverse*)			
A. Class(es) (*enter code(s)*)	B. Type(s) (*enter code(s)*)	C. If class is "other" or type is code 'x', explain	D. Number of wells per type (if area permit)
II	**ER**		

IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT																X. INDIAN LANDS (*Mark 'x'*)
C	A. Latitude			B. Longitude			Township and Range									
	Deg	Min	Sec	Deg	Min	Sec	Twsp	Range	Sec	¼ Sec	Feet from	Line	Feet from	Line		☒ A. Yes ☐ B. No
							7S	**23E**	**18**	**SWSW**	**660**	**FSL**	**592**	**FWL**		

XI. ATTACHMENTS

(Compete the following questions on a separate sheet(s) and number accordingly; see instructions)

FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A - U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application: A, B, C, E, G, H, I, J, K, L, M, O, P, Q, R, S, T, U

XII. CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

A. Name and Title (*Type or Print*)		B. Phone No. (*Area Code and No.*)
John T Conley **Red Wash Asset Team Leader**	RECEIVED NOV 3 1 1996 DIV. OF OIL, GAS & MINING	**(801) 781-4300**
C. Signature J T Conley		D. Date Signed 10-29-96

EPA Form 7520-6 (2-84

UNDERGROUND INJECTION CONTROL
PERMIT APPLICATION
CLASS II ENHANCED RECOVERY WELL

RWU #52
SWSW-S18-T7S-R23E

RED WASH UNIT
UINTAH COUNTY, UTAH

A. AREA OF REVIEW METHOD:

The Area of Review (AOR) is a fixed radius 0.25 mile from the well.

B. MAPS OF WELLS/AREA AND AREA OF REVIEW:

Attachment B is a topographic map showing the AOR for RWU #52.

C. CORRECTIVE ACTION PLAN AND WELL DATA:

RWU #52: Attachment C contains all pertinent information on the well. No corrective action is required.

The AOR contains no other wells.

D. MAPS AND CROSS SECTIONS OF USDWs:

Does not apply to Class II wells.

E. NAME AND DEPTH OF USDWs (CLASS II):

There are no known USDW's and no water supply wells within the AOR. Depths to formation tops and geologic markers are as follows for wells in the AOR:

FORMATION OR MARKER	RWU #52
Uinta Formation	Surface
Green River Formation	3115'

FORMATION OR MARKER	RWU #52
Oil Shale Top	3865'
Oil Shale Base	3885'
Target Injection Interval	5629-5714'
Wasatch Formation	6188'

In the AOR, State of Utah Department of Natural Resources Technical Report #92 (USGS Open File Report 87-394), titled "BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH", it is indicated that USDW's in the area of RWU #52 are at sea level. This places the USDW's in the Green River Formation. The Green River Formation is classified by the EPA as an exempt aquifer in the AOR.

The target injection interval consists of the following perforation intervals: 5629' (Jb), 5660-88' (Jd/Je), and 5714' (K). At virgin conditions, the injection interval was very near irreducible water saturation and produced only minor amounts of water with the oil and gas. All current water production from the Red Wash area is recycled injection water (9996.8 mg/l TDS, per 1/29/96 sample) which has broken through from offset injectors.

F. MAPS AND CROSS SECTIONS OF GEOLOGIC STRUCTURE OF AREA:

Does not apply to Class II wells.

G. GEOLOGIC DATA ON INJECTION AND CONFINING ZONES (CLASS II):

Lithologic descriptions apply to the following Injection and confining zones:

INTERVAL	RWU #52
Target Interval	
Depths	5629-5714'
Thickness	85'

INTERVAL	RWU #52
Confining Zone	
Depths	5566-5594'
Thickness	28'
Confining Zone to Green River Top	
Depths	5566-3115'
Thickness	2451'

The target injection interval is sandstone.

The confining zone directly above the target injection interval is shale. Additional intervening strata between the top of the confining zone and the top of the Green River Formation consists of tightly interbedded shales, carbonate mudstones, siltstones, and sandy limestones to limy sandstones.

A fracture gradient of 0.78 psi/ft has been established for the Red Wash Unit. Based on a fracture gradient of 0.78 psi/ft, a 5629' depth to the top target interval perforation and a fluid specific gravity of 1.007, maximum surface injection pressure is 1936 psi.

H. OPERATING DATA:

1. The daily water injection rate will vary with reservoir conditions and offset production rates, all of which change over time. Initial injection rates may approach 1000 BWPD while building reservoir pressure. A target rate of less than 500 BWPD is expected within six months, based on anticipated offset production.

2. Maximum injection pressure will initially approach fracture pressure in order to build reservoir pressure as quickly as possible. Average injection pressures approaching 1700-1800 psi are expected within six months.

3. Annulus fluid is produced water containing corrosion inhibitor to prevent corrosion of tubulars. A diesel freeze blanket will be circulated from surface to below frost level at completion to prevent freezing and possible equipment failure during winter months.

4. Does not apply to Class II wells.

5. Injected fluid consists of produced water from ongoing operations at the Red Wash Unit, in addition to fresh make-up water from Chevron operated water supply wells. Fluid streams from producing wells are gathered into central facilities. After separation, produced water is transferred to the Red Wash Central Battery Water Injection Station, where it is mixed with fresh water from the water supply wells. Fresh make-up water is required for material balance reasons to replace oil and gas removed from the reservoir. The mixture is treated with scale and corrosion inhibitors, then sent through the main water injection pumps for high pressure distribution to injectors in the field.

Attachment H is a copy of the water analysis report submitted by Chevron to the EPA for 1996 annual reporting purposes. The fluid analyzed was water leaving the Red Wash Central Battery Water Injection Station for distribution and injection throughout the Red Wash Unit. Since the proposed well will be connected to the existing injection system, Attachment H is representative of the injected fluid for the proposed well.

6. Does not apply to Class II wells.

I. FORMATION TESTING PROGRAM:

1. A Fracture gradient of 0.78 psi/ft has been established for the Red Wash Unit.

2. Static reservoir pressure will be obtained via bottom hole pressure bomb following completion of the well and before commencing injection.

3. No fluid sampling of the completed interval will be attempted.

J. STIMULATION PROGRAM:

No stimulation is planned at present.

K. INJECTION PROCEDURES:

With the exception of normal wellhead equipment, valves and monitoring equipment, no on-site equipment such as tanks and pumps will be involved. Water will be supplied to the well by an injection flowline connected with the existing distribution network.

Central injection facilities are designed and operated to provide continuous injection at rates and pressures consistent with operating, engineering and regulatory requirements. Uninterrupted operation is planned.

L. CONSTRUCTION PROCEDURES:

Construction will start after permit and flowline right-of-way approval. Construction is expected to take approximately 4 days.

Attachment L details construction procedures. Chevron intends to install a tandem packer assembly which will straddle Hb/Hb50 and Hc perforations and isolate them from the targeted injection interval 5629' (Jb) - 5714' (K).

The proposed annulus fluid is produced water containing corrosion inhibitor to prevent corrosion of tubulars. A diesel freeze blanket will be circulated from surface to below frost level to prevent freezing and possible equipment failure during winter months. Following a successful mechanical integrity test, static reservoir pressure will be obtained. The well will commence injection following flowline installation and EPA authorization to inject.

M. CONSTRUCTION DETAILS:

Attachment M shows proposed construction details of the well.

N. CHANGES IN INJECTED FLUID:

Does not apply to Class II wells.

O. PLANS FOR WELL FAILURES:

Upon discovery of a mechanical integrity failure, the well will be immediately shut-in and evaluated. If repairs and a return to injection cannot be justified, the well will be plugged and abandoned.

P. MONITORING PROGRAM:

The well will be equipped for monitoring injection pressure, tubing/casing annulus pressure, instantaneous and cumulative injected volume, and to allow sampling of the injected fluid.

There will be weekly observations of rates and pressures, with values recorded monthly for reporting purposes.

Fluid sampling for central injection facilities serving injectors at the Red Wash Unit, including the proposed well, will be conducted on an annual basis.

Q. PLUGGING AND ABANDONMENT PLAN:

Attachment Q contains EPA Form 7520-14, "Plugging and Abandonment Plan".

Attachment Q contains the plugging and abandonment procedure and schematic.

The proposed P&A plan is consistent with P&A procedures used by Chevron throughout its Uinta Basin properties.

R. NECESSARY RESOURCES:

Financial responsibility for the abandonment of the proposed well is addressed under Chevron's Financial Assurance Statement for Class II operations on Indian Lands.

S. AQUIFER EXEMPTIONS:

The Green River Formation is classified as an exempt aquifer by the EPA in the AOR.

T. EXISTING EPA PERMITS:

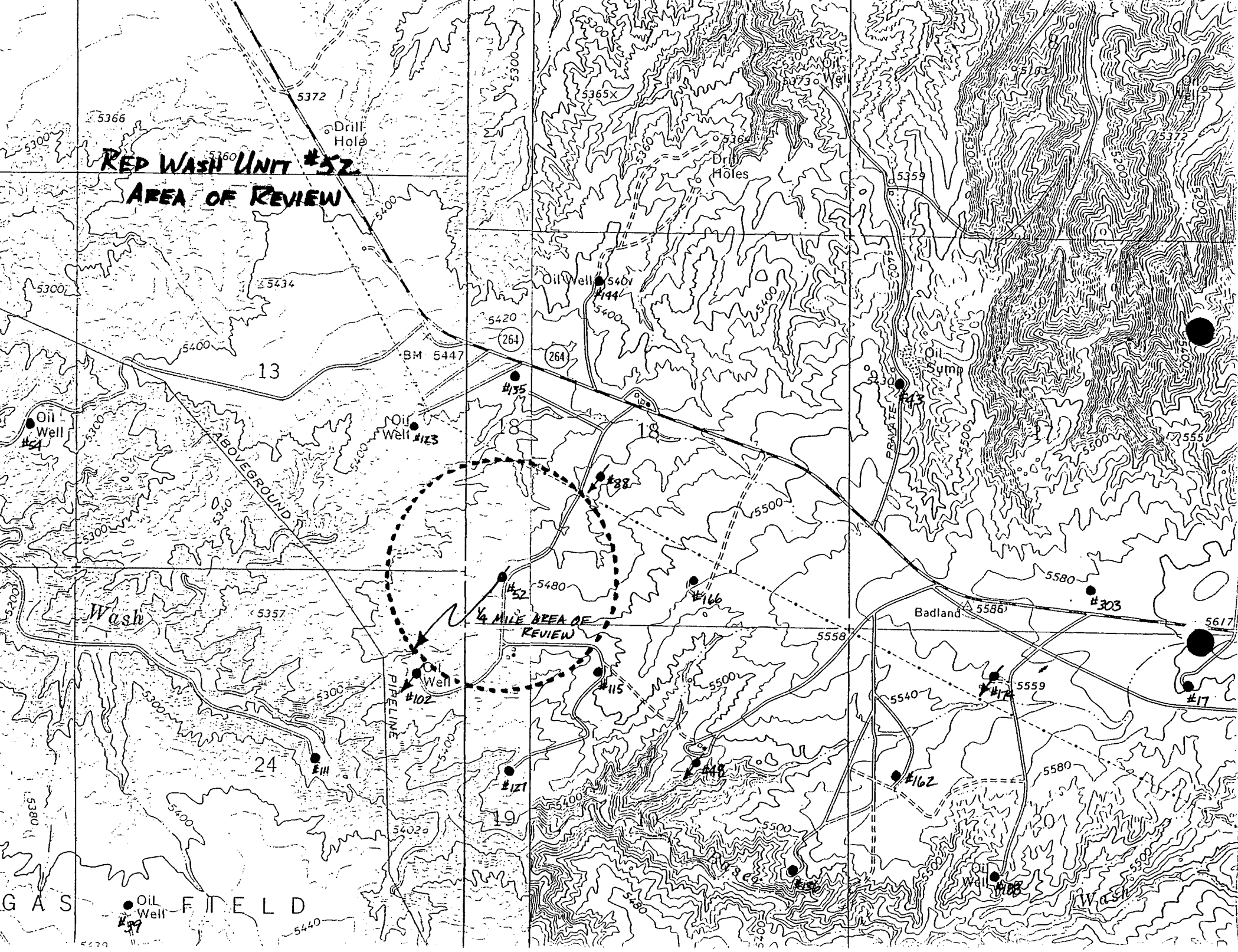
Chevron holds numerous UIC permits for Class II wells in the United States. Attachment T contains listings of class II wells operated from this office.

U. DESCRIPTION OF BUSINESS:

Chevron USA Production Co. is the domestic exploration and production company of Chevron Corporation, a major international oil company.

RED WASH UNIT #52
UINTAH COUNTY, UTAH

ATTACHMENT B


RED WASH UNIT #52
AREA OF REVIEW
1/4 MILE AREA OF REVIEW
Drill Hole
Drill Holes
Oil Well
Oil Sump
BM 5447
ABOVEGROUND
PIPELINE
PRIVATE
Badland
Wash
GAS FIELD
#54
#123
#135
#144
#88
#52
#166
#102
#115
#111
#121
#48
#162
#156
#188
#43
#303
#17
#39
13
18
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24
19
20
264

RED WASH UNIT #52
UINTAH COUNTY, UTAH

ATTACHMENT C

RED WASH UNIT #52 (14-18B)
660' FSL & 592' FWL
SWSW-SEC.18-T7S-R23E
UINTAH COUNTY, UTAH

API#:	43-047-15178
LEASE NUMBER:	U-0116
KB ELEVATION:	5477'
GL ELEVATION:	5465'
TD:	6359'
PBTD:	5730'
CEMENT TOP:	UNKNOWN

CASING DETAIL:

15" HOLE SIZE
10-3/4" 40.5# J-55 @ 425' W/275 SX. COMMON

9" HOLE SIZE
7" 23# J-55/N-80 @ 5800' W/160 SX. REGULAR OUT SHOE, 275 SX. REGULAR OUT DV TOOL @ 5200'.

TUBING DETAIL: REFER TO TOUR REPORTS - SI ROD PUMPING EQUIPMENT

PERFORATION DETAIL:

Open -		Excluded -
5104-30'	Hb/Hb50	
5134-48'	Hc	
5629'	Jb	
5660-88'	Jd/Je	
5714'	K	

RWU #52 (14-18B)
WELL HISTORY:

12/56: At completion, drilled out to 5730'. Perforated and stimulated as follows.
5660-88'; SOS with 150 bbl. oil and 11550# sand.
5134-48', 5104-30'; SOS with 185 bbl. oil and 11000# sand.
Cleaned out and ETP on rod pump.

3/59: Swabbed/flowed 100% oil from 5660-88'. Squeezed 5104-48' with 150 sx. Drilled out to 5730' and RTP.

4/62: SOS 5660-88' with 20000 gal. oil and 25100# sand. Cleaned out and RTP.

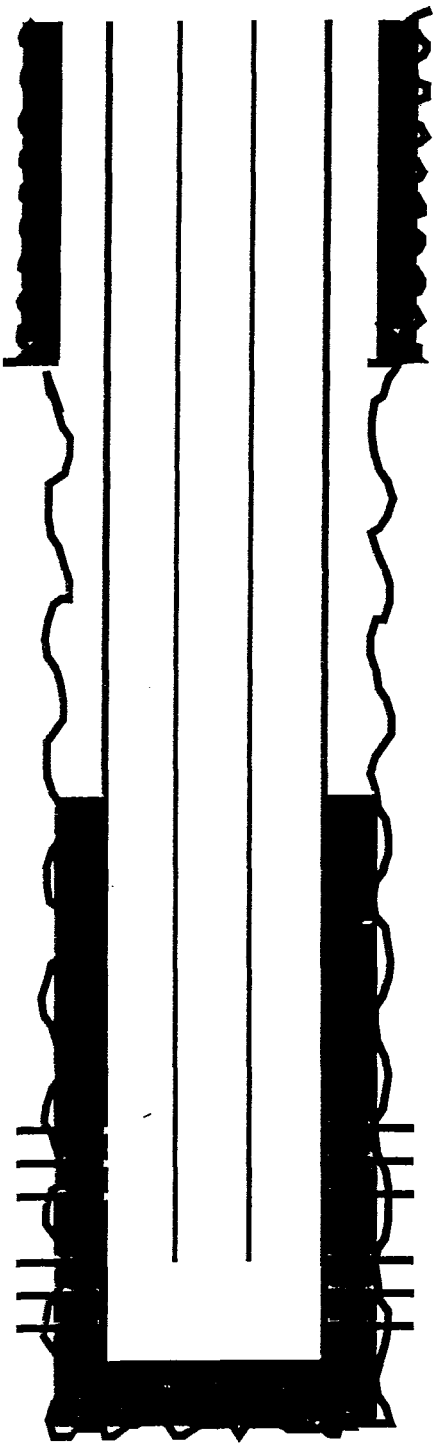
7/63: Notched 5714', 5669', 5629', 5683', 5669'. SOS with 26000 gal. oil and 35000# sand. Cleaned out and RTP.

12/81: Cleaned out to 5730'. Perforated 5104-30', 5134-48', swabbed 5% oil. Acidized 5660-88' with 4000 gal. 15% Hcl. RTP.

CURRENT
WELLBORE DIAGRAM

WELL:	RED WASH UNIT #52
LOCATION:	660' FSL & 592' FWL
	SWSW-SEC. 18-T7S-R23E
	UINTAH COUNTY, UTAH
LEASE:	U-0116
API #:	43-047-15178

KBE:	5477'
GLE:	5465'
TD:	6359'
PBTD:	5730'



ORIGINAL TOC @ UNKNOWN

PBTD: 5730'
TD: 6359'

SURFACE HOLE & CASING:

HOLE SIZE:	15"
CSG. TYPE & SIZE:	10-3/4" 40.5# J-55
SETTING DEPTH:	425'
CEMENT:	275 SX COMMON
CEMENT TOP:	SURFACE

GEOLOGIC MARKERS:

UINTA	SURFACE
GREEN RIVER	3115'
OIL SHALE	3865-3885'
TARGET INTERVAL	5629-5714'
WASATCH	6188'

PERFORATIONS:

5104-30'	Hb/Hb50	OPEN
5134-48'	Hc	OPEN
5629'	Jb	OPEN
5660-88'	Jd/Je	OPEN
5714'	K	OPEN

PRODUCTION HOLE AND CASING:

HOLE SIZE:	9"
CSG. TYPE & SIZE:	7" 23# J-55 / N-80
SETTING DEPTH:	5800'
CEMENT:	160 SX REGULAR OUT SHOE : 275 SX REGULAR OUT DV TOOL AT 5200'

ORIGINAL FORWARDED TO CASPER

Form 9-330

18

COMPLETION REPORT—NEW WELL

STANDARD OIL COMPANY OF CALIFORNIA

FIELD: Red Wash

PROPERTY: Section 18B

WELL NO: 14 - 18B (52)

Sec. 18 T. 7S R. 23E S.L.B. & M.

LOCATION: 660' North, 592' East of Southwest corner

LAND OFFICE: Salt Lake City
LEASE NO.: U-0116

ELEVATION: 5477' K.B.

K.B. is 9.0' above ground

DATE: January 9, 1957

By J. T. CROOKER
Manager, Producing Department

DRILLED BY: Kerr McGee Oil Industries

DATE COMMENCED DRILLING: October 31, 1956

DATE COMPLETED DRILLING: December 25, 1956

DATE OF INITIAL PRODUCTION: 1-11-57

PRODUCTION:							
Daily average, 1st	30	days	Gravity	28.5	° API	Pumping	X
Oil	106	Bbls.	T. P.	75	PSI	Flowing	
Water	48	Bbls.	C. P.	—	PSI	Gas Lift	
Gas	39	Mcf.	Bean		/64"		

SUMMARY

TOTAL DEPTH: 6359'

PLUGS: None

CASING: Conductor 16" cemented 22'
10 3/4", 40.5#, H-40 cemented 425'
7", 23#, J-55, N-80 cemented 5800'
C.P.'D. 5201'
Perf'd. 5660 - 5688
5134 - 5148
5104 - 5130

JUNK: None

LOGS RUN: Schlumberger Electric Logs.
Run 1 6266' - 425'
Run 2 6347' - 6266'

Schlumberger Microlog
Run 1 6264' - 2800'
Run 2 6344' - 6100'

McCullough Gamma Ray-Collar Log
Run 1 5731' - 4500'

U. S. GEOLOGICAL SURVEY
RECEIVED
FEB 14 1957
3177 OIL & GAS BR.
SALT LAKE CITY, UTAH

ORIGINAL FORWARDED TO CASPER

#52

ORIGINAL FORWARDED TO CASPER

RE-COMPLETION REPORT

U. S. GEOLOGICAL SURVEY
RECEIVED
FEB 8 - 1960
OIL & GAS BR.
SALT LAKE CITY, UTAH

STANDARD OIL COMPANY OF CALIFORNIA

FIELD: Red Wash PROPERTY: Section 18B

WELL NO: 34-18B (52) SW SW Sec 18 T 4 S R 21 E S.L.B. & M.

Following is complete and correct record of all work done on the well since the previous record dated 2-9-57

PURPOSE OF WORK: To exclude water.

UT 0116
Ref. #44

DATE OF REPORT: December 28, 1959 BY C. V. CHATTERTON
Supt. Manager, Producing Department

WORK DONE BY: R & R Well Service

COMMENCED OPERATIONS: 3-13-59 COMPLETED OPERATIONS: 3-25-59

DATE WELL LAST PRODUCED: 3-12-59 DATE RETURNED TO PRODUCTION: 3-26-59

PRODUCTION:	PRIOR TO WORK		AFTER WORK	
Oil	59	B/D	227	B/D
Water	34	B/D	23	B/D
Gas	23	Mcf/D	265	Mcf/D
Gravity	28.5	°API	28.5	°API
Tubing	50	PSIG	100	PSIG
Casing	75	PSIG	400	PSIG
Method of Production: Pumping	x		x	
Flowing				
Gas Lift				

SUMMARY

T. D. 6359'

Effective Depth 5730'

Casing: 7", 23#, J-55, N-80 cemented 5880'
C.P.'d 5201'

Perforations: 5104-5130) sealed w/
5134-5148) cement & excluded.
5660-5688

ORIGINAL FORWARDED TO CASPER

WELL NO: 14-18B (52) PROPERTY: Section 18B RED WASH FIELD

HISTORY

Subject well 14-18B (52) was completed in December 1956, for an IP of 106 B/D oil, 48 B/D water and 39 MCF/D. By January 1958 water production had increased to 112 B/D, and by February 1959 was producing 225 B/D water.

It is proposed to re-enter subject well and exclude water and also increase oil production by 50 B/D.

PROGRAM

1. Move in workover rig, circulate well with water, pull rods and tubing.

   a. If heavy waxing condition is indicated, run scraper before proceeding with step 2.

2. Run straddle tester on tubing, straddle perf'd interval 5660-5688' and swab test to determine:

   a. That high head water entry is not from this zone.

   b. Zone has adequate productivity without additional stimulation. If additional stimulation is indicated it will be carried out at a later stage in the program.

3. Set tester to straddle HOWCO DV collar at 5200', swab fluid down and establish that collar is not leaking.

4. If no high head water is encountered from the lower perforations (5660-5680') or from the DV collar, set drillable bridge plug about 5170' and magnesium Model K retainer at 5070' and squeeze perforated intervals 5104-5130' and 5134-5148' with cement.

   a. Have 150 sax cement on hand.

   b. Use hesitation squeeze. If satisfactory pressure build up is not obtained displace cement beyond perforations, pull out of retainer, stand 4 hours, stab back into retainer and repeat squeeze job.

5. Drill out retainer and cement to 5160', and pressure test with max. rig pump pressure. Drill out remaining cement and bridge plug and clean out to 5730'.

6. If deemed necessary, sand-oil squeeze perforated interval 5660-5688'.

7. Rerun tubing as before and return well to production.

WORK DONE

March 13, 1959
R & R Well Service moved in and rigged up.
Displaced well with 260 bbls Rangely crude.

March 14, 1959
Pulled rods. Installed BOP

WELL NO: 14-18B (52) PROPERTY: Section 18B RED WASH FIELD

March 15, 1959
Finished pulling tubing.
Ran paraffin scrapper and scrapped to bottom and circulated out paraffin.

March 16, 1959
Ran mill shoe and plugged tubing with paraffin. Finally circulated well clean.

March 17, 1959
Set straddle packers at 5654 and 5694.
Rigged up and swabbed interval 5660-5688.
Swabbed burner fuel and Rangely crude with fluid level at 300'.

March 18, 1959
Swab testing zone 5660-5688', packers set @ 5654 and 5694 (Halliburton straddle packers made 46 swab runs to 1800', fluid level standing @ 1000'). Swabbed oil and water for 31 runs, approximately 139 bbls. Made 15 runs believed to be mostly Red Wash Crude and a small amount of water. First fluid believed to have been a blend of Red Wash crude and Rangely crude. Total swabbed and flowed 240 bbls.

March 19, 1959
Well flowed @ est. 80 BOPD for 3 hrs. oil Red Wash crude. Zone 5660-5688'. Moved straddle packers up hole and tested DV collar @ 5200'. Made swab run after 30 min., pulled dry. Ran swab to 5150'.

March 20, 1959
Pulled straddle packers, set Model K Bridge plug @ 5171' and retrievable retainer @ 5072'. Halliburton squeezed away 150 sx regular cement by hesitation method. Final press. 3500 PSI. Zone squeezed 5104-5130 and 5134-5148'.

March 21, 1959
Located top of cement at 5057'. Drld. out cement to 5099'.

March 22, 1959
Drilled out cement from 5099 to 5114'.
Circulated 1/2 hr. on bottom and shut well in for night.

March 23, 1959
Drilled out hard cement from 5114 to 5161.
Tested cement scab 5104-5148 w/1400 PSI pressure for 30 min. No bleed off. Scab holding okay.

March 24, 1959
Drilled out cement and Model K Bridge plug and cleaned out to 5730'.
Landed 2½" tbg @ 5599'
Detail:

Bottom 1 jt.	30.96'	2½" EUE perf'd gas anchor
Next	10.00'	2½" EUE pup jt
Next	1.00'	PSN
Next 179 jts.	5543.85'	2½" EUE 6.5# J-55 tbg.
Top	12.58'	KB to tbg head
Landed	5598.66'	

Tore out BOP

WELL NO: 14-18B (52) PROPERTY: Section 18B RED WASH FIELD

March 25, 1959
Ran rods and pump
Detail:
AX Pump #45 - 3 top Cup
134 - 3/4 x 25' rods
87 - 7/8 x 25' rods
1 - 8' x 7/8" sub
2 - 2' x 7/8" sub
1 - 22' x 1¼ Poney rod.
Crew released.

WELL NO.: 14 PROPERTY: Section 18B RED WASH FIELD

Drill Stem Tests

#1	HFT	5110 - 5153
#2	HFT	5664 - 5700
#3	HFT	5846 - 5875
#4	HFT	6255 - 6278
#5	HFT	6326 - 6359

WORK DONE

0' - 22', 16" conductor.

October 27 - 31, 1956.

Kerr McGee Oil Industries moved in and rigged up.

Spudded 3:00 p.m., October 31, 1956.

Drilled 15" hole, 4½" F.H. drill pipe, water drilling fluid.

22' - 431' 409' Drilled.

Cemented 449' of 10 3/4" casing at 425'.
Mixed 275 sacks Ideal Common cement with 2% calcium chloride in 15 minutes to average 16 ppg slurry. Used Howco power equipment. 5 minutes displacing. Used one top rubber plug. Cement in place 2:50 p.m. Good cement returns to surface.

Casing Detail

All	11 jts.	449'	10 3/4" O.D., 40.5#, H-40, Range 3, new, seamless casing with short 8 round threads and couplings. Includes Baker cement guide shoe and Baker float collar two joints up.
Total	11 jts.	or 449'	
Above K.B.		24'	
Cemented at		425'	

Casing Summary

Landed 10 3/4" casing 15' below Kelley Bushing, leaving 410' of casing cemented at 425'.
Recovered 39' of 10 3/4" casing.

Cut and recovered 15' of 16" conductor.

Stood cemented 28 hours.

Installed Class III blowout prevention equipment. Pressure tested to 1200 psi with clear water for 30 minutes, O.K. (While standing cemented.)

Drilled out collar, cement, and guide shoe.

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Drilled 9" hole, 4½" drill pipe, 9.2 - 9.6 ppg mud.

431' - 4965' 4534' Drilled.

Lost approximately 150 barrels of mud @ 3752'. Full returns @ 3758'.

November 14, 1956.

Diamond Cored 6 7/8" hole, 4½" drill pipe, 9 ppg mud.

Core #1 - 4965' - 5030' - Recovered 65'

4965' - 4965½' S.s. - gr, vfg, v hd, perm NSOF
4965½' - 4968' S.s. & sh - f inbd; S.s., lt gr, hd, ti; Sh, gr-brn, m hd, irreg fracs.
4968' - 4970' S.s. - as in top of core.
4970' - 4971' S.s. & Sh - a.a.
4971' - 4972' S.s. - as in top of core
4972' - 4981' S.s. & Sh - s.s., gr-tn, vfg, dns, hd, v dol, NSOF; Sh, a.a., pred v crs, reworked.
4981' - 4982' S.s. - tn, dol, hd, dns, ti, NSOF
4982' - 4993½' S.s. & Sh - a.a.
4993½' - 4996' Sh
4996' - 4997½' S.s. - lt gr, fg, well sort, hd, well com, scat vf blk sphs, rare cstg, spot stn, dull yel fluor, gr-ol cut, wet.
4997½' - 5001' S.s. & Sh - a.a., crs, reworked.
5001' - 5004' Sh
5004' - 5005' S.s. - a.a.
5005' - 5011' Sh
5011' - 5013' S.s. - a.a.
5014' - 5023' Sh
5023' - 5027' S.s. - a.a.
5027' - 5030' S.s. - dk gr, fg, fair sort, hd, well com, wet, NSOF, bottom badly broken in bbl when jammed

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WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Core #2 (cont'd)

5098' - 5100'	Bcm S.s. a.a., except slightly crsr gr & oil stn'd. Oil in frac.
5100' - 5102'	Grades to Sltst, m gr, hd
5102' - 5106'	S.s. - lt gr, vfg, v hd, well cem, patches Sh & carb frags, spotty stn wi bri yel flsn & bl-gr cut, fnt pet odor. Generally tite.
5106' - 5108'	Bcm S.s. - a.a., ti wi 30% Sh in thin inlams to 1" strs, finaly reworked.
5108' - 5114'	Oil stn S.s. - m gr wi spotty brn stn, fg, sa/sr, well sort, hd, well cem, abd dk sh strs, bri yel flsn where stn wi inst silver-bl cut
5114' - 5116'	Bcm generally ti wi rare stn'd strs
5116' - 5120'	Oil stn'd S.s. - m gr wi dk brn stn, fg, sr, well sort, hd, difficultly fri, gld flsn wi inst gr-bl cut, good pet odor, occ strs & patches sh & ti unstn'd ss. Bottom 1½' badly broken in core bbl. Oil in frac.

Core #3 - 5120' - 5210' - Recovered 90'

5120' - 5131½'	Oil stn'd S.s., gr wi lt brn stn, fg, sa/sr, fair to good sort, strs ti s.s. and thi sh inlams, good pet odor, bri yel flsn, inst silver bl cut Bcm incr shaley
5131½' - 5135'	Grades to S.s. and Sh, s.s. pred lt gr, vfg, well cem & ti wi occ strs perm. Sh dk gr thi inlams
5135' - 5136½'	Sh, gr gr, m hd, irreg frac
5136½' - 5137½'	Grades to Sh a.a. wi dk gr sltst
5137½' - 5142½'	Dol oolite, tn wi fine tn ools, abd osts, NSOF
5142½' - 5144'	Bcm oil stn'd, spotty lt brn stn, bri yel flsn
5144' - 5153½'	Oil stn S.s., gr wi lt brn stn, fg, sr, well sort, hd, m fri, good pet odor, bri yel flsn
5153½' - 5156½'	Bcm pred ti s.s., vfg, ti, rare patch stn, strs dk sh
5156½' - 5157½'	Bcm incr shaley
5157½' - 5161½'	Bcm pred Sh, dk gr, hd
5161½' - 5162½'	Grades to S.s., vfg, v well cem, hd, ti, barren
5162½' - 5165'	Sh, sa, wi strs ti ss to 2"
5165' - 5170'	S.s., dk gr, fg, sr, well sort, hd, m fri, abd blk sphs, wet NSOF
5170' - 5176'	S.s., lt gr, vfg, hd, dns, ti except in occ strs, 15% reworked sh in thi inlams to 1" strs.
5176' - 5178½'	Bcm pred Sh, dk gr, hd, irreg frac
5178½' - 5180½'	S.s., fg, sa/sr, fair sort, hd, well cem, NSOF
5180½' - 5183'	Appears some porm
5183' - 5193'	Grades to S.s., m gr, m/crs, hd, fri, well sort, sa, perm, wet NSOF 2" misfi gr sh
5193' - 5196'	S.s., dk gr, fg, dns, hd, well cem, dolic abd blk sphs, ti, NSOF
5196' - 5203'	S.s., dk gr, mg, m hd, m fri, perm, wet, NSOF
5203' - 5210'	Bcm streaked wi dk sh inlams to 1/4" strs.

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Core #4 - 5210' - 5300' - Recovered 90'

5210' - 5217'	S.s., dk gr, fg, m hd, dns, m fri, perm, wet, NSOF
5217' - 5221'	S.s., dk gr, vfg, hd, dns, well cem, wet, becoming ti, strks dk sh inlams. Strks stn
5221' - 5221½'	6" S.s., dk gr, fg, v hd, v dns, ti, no perm, poor sort, well cem.
5221½' - 5226'	S.s., dk gr, fg, m hd, perm, well sort, wet, NSOF
5226' - 5227½'	Bcm vfg, m fri, perm, well sort, wet, NSOF
5227½' - 5228'	62 Siltstn, f gr, v hd
5228' - 5230'	S.s., vfg, hd, perm, lt gr, wet, NSOF
5230' - 5230½'	Sh, dk, hd, irreg frac
5232½' - 5234'	Siltstn, vfg, hd, dk brn sh inlams
5234' - 5241½'	S.s., lt gr, mg, sa, well sort, hd, mod fri, wet, perm, NSOF patchy sh, lt gr, soft
5241½' - 5242½'	10" Sh, dk gr, hd, w/strks s.s.
5242½' - 5247'	S.s., a.a.
5247' - 5250'	Siltstn, lt.gr, vfg, hd, bcm Sh, dk gr, m hd, carb frags, irreg frac
5250' - 5263'	Sh, a.a., bcm siltstn inlams, hd, ti, dk gr
5263' - 5265'	S.s., dk gr, fg, sa, hd, NSOF
5265' - 5270'	Siltstn, hd, w/Sh inlams, patchy oil stn
5270' - 5272'	Siltstn, lt gr, bcm sh
5272' - 5273'	S.s., lt gr, fg, sa, hd
5273' - 5280'	Siltstn, w/strks sh, dk gr, fg, dns, v hd
5280' - 5281'	S.s., fg, lt gr, sa, m hd, NSOF
5281' - 5287'	Strks Sh, dk gr, carb stn inlams
5287' - 5288'	Siltstn, dk gr, fg, dns, hd, well cem, dolic csts
5288' - 5291'	Siltstn, lt gr, fg, dns, hd, well cem, dolic, abd csts
5291' - 5294'	bcm S.s., mg, dolic lt gr, abd csts, perm, NSOF
5294' - 5300'	S.s., f/mg, lt gr, well sort, sa, bcm perm where sampled, NSOF crushed strks sh inlams, irreg in bottom 1'

November 20, 1956

DST #1 One hour formation test of interval 5110 - 5153, HR-HD, lower Green River sands

Ran Halliburton tester on 4½", 16.6# F.H. D.P., 226' of 5 3/4" O.D. drill collars, no cushion, sidewall anchor tool, three 8" O.D. packers, hydraulic valve, Howco jars and safety jt. Set packers at 5105, 5110 and 5153. Opened valve 3:30 p.m. for 1 hour then closed for 30 minutes shut in test.

Mild blow immediately. Gas to surface in 8 minutes. Mild blow balance of test. Pitot tube meas. 60 - 75 MCF/D rate. Recovered 620' including top 295' high pour point oil 28° API, 93° pour point. Bottom 325' watery mud grading to muddy water above tools. 150 ppm Cl⁻ 10n. Bottom recorder indicates bottom packer held o.k.

Charts:

	IH	IF	FF	SI	FH
Top BT	2571	74	212	1836	2558
Middle BT	2565	102	237	1870	2567

Core #5 - 5300' - 5385' - Recovered 81'

5300' - 5304'	S.s., vf/fg, lt gr, well sort, sa, perm, NSOF, wet, carb (gilsonitic) intrusions
5304' - 5311'	S.s., c.g., dk gr, conglom carb intrusions, poor sort, vy perm, NSOF, wet, scattered spns
5311' - 5313'	S.s., mg, lt gr, well sort, perm, NSOF, wet ½" Siltstn w sh inlams, ti, 5315' to 5316'
5313' - [illegible]	S.s., [illegible], well sort, [illegible] perm, NSOF, wet

WELL NO. 14 PROPERTY: Section 18 RED DASH FIELD

Core #5 (cont'd)

5320' - 5324'	Sh, silty, irreg frac, lt gr w/dk gr inlams
5324' - 5326½'	S.s., fg, lt gr, abd ostrcs, dolic, bcm mg, conglom, NSOF, perm, wet, 10" Sltstn, ti,
5326½' - 5336'	S.s., fg, lt gr, well sort, perm, NSOF, wet
5336' - 5340'	Bcm strks ti, dns, imperm, Sltstn wi ost coq and sub coq 1" Sh at 5338'
5340' - 5341'	4" Ost coq grading to sub coq
5341' - 5342'	1" Sh, dk gr, m hd
5342' - 5349½'	Grades to Sltst, m gray, hd wi strs reworked dk sh
5349½' - 5351'	S.s., lt gr, fg, sa/sr, fair sort, hd, well cem, NSOF
5351' - 5353'	Bcm very shaley, Sh in dk thi finely reworked inlams
5353' - 5354'	Grades to Sh, dk gr, m hd, irreg frac
5354' - 5355½'	Sltst & Sh, sltst lt gr, hd; Sh, a.a.
5355½' - 5366'	Grades to S.s., lt gr, fg, sr, v well sort, hd, well cem, wet, NSOF
5366' - 5370'	Bcm tighter wi strs lt gr Sltst and dk Sh
5370' - 5371'	Sltst, lt gr, hd
5371' - 5372½'	Bcm v shaley - th reworked inlams
5372½' - 5373½'	Bcm pred Sh., dk gr, m hd, irreg frac
5373½'	3" Ost. coq.
5382' - 5385'	No recovery

Core #6 - 5385' - 5438' - Recovered 52'

5385' - 5387½'	Sltst, m gr, very hd and dns, wi strs dk gr, m aft sh
5387½' - 5391'	Grades to Sh, dk gr, m aft, irreg frac
5391' - 5394½'	Ost-coq, blk & tn osts in dol mtrx, ti, NSOF
5394½' - 5402'	Sh, dk brn, m aft, poker chip frac
5402' - 5407'	Sltst & Sh., Sltst, m gr, hd; Sh, a.a. in thin coarsely reworked inlams to strs 4"
5407' - 5408½'	Oil stn'd S.s., dk brn stn, fine g, sa, fair sort, hd, well cem, abd blk gs, good pet odor, dull gold flsn, inst white cut
5408½' - 5409½'	Bcm strkd with 30% barren Sltst
5409½' - 5410'	Sltst, m gr, hd
5410' - 5411'	S.s., vfg, sr, mgr, hd, well cem, NSOF
5411' - 5412½'	Sltst, lt gr, hd, wi strs dark reworked sh
5412½' - 5415½'	Sh, dk gr, sft, irreg frac
5415½' - 5417'	Limestone, calcitic, m gr, v hd, dns, abd sphs and osts, ti, NSOF
5417' - 5417½'	Sh, gr-grn, m hd, irreg frac
5417½' - 5418½'	S.s., vfg, ti, wi NSOF
5418½' - 5419½'	Oil stn S.s., dk brn stn, mg, sa/sr, fair sort, hd, m fri, strong sulfur odor, dk brn flsn, inst li brn cut
5419½' - 5437'	Bcm S.s. a.a. without oil stn
5437' - 5438'	No recovery

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Core #7 - 5438' - 5528' - Recovered 90'

5438' - 5441'	S.s., lt gr, tn, fg, sa, silty, well sort, hd, NSOF, wet, perm
5441' - 5442'	Sltstn, dk gr, dns, ti, hd
5442' - 5444'	S.s., lt gr, fg, sa, clean, well sort, m fri, NSOF, wet, perm
5444' - 5447'	Sltstn, lt gr, ti, hd, sh inlams
5447' - 5451½'	Bcm pred Sh
5451½' - 5462'	Sh, dk gr, hd, irreg frac, silty in patch
5462' - 5464'	Sltstn, lt gr w/strks dk gr sh w/brush cast
5464' - 5465'	Bcm abd cstrcs
5465' - 5479'	Sh, dk gr, strks sltstn, hd, ti, bri irreg fracs
5479' - 5481'	S.s., lt gr, tn, fg, sa, well sort, NSOF, wet
5481' - 5482'	Sh, dk gr, hd, brittl irreg fracs, abd fanna casts
5482' - 5483'	S.s., lt gr, fg, sa, hd, ti, imperm
5483' - 5483½'	perm inlams, brn oil stn, mg, dood odor, yel flo, yel cut
5483' - 5484½'	6" Sh, dk gr brn (oil sh)
5484½' - 5487'	Sltstn, patchy sh
5487' - 5492'	Sh, dk gr, sltstn inlams, hd, irreg frac
5492' - 5504'	Sh, dk gr brn, brittle, lam fracs
5504' - 5505'	10" Sltstn, lmy
5507' - 5512'	Sltstn, patches - Sh, hd, irreg frac, lmy
5512' - 5523½'	Sh, a.a.
5523½' - 5525'	Dolo, abd cstrcs, hd, ti
5525' - 5527'	S.s., mg, dk gr brn, sa, well sort, NSOF, perm, wet
5527' - 5528'	Sltstn, dk gr, ti, vy hd

Core #8 - 5528' - 5592' - Recovered 64'

5528' - 5533'	Sltstn, dk gr, v hd, abd csts, calc, no perm, fw strks s.s., sa, lt gr, fg, mum csts, perm, NSOF, wet
5533' - 5542½'	Bcm strks Sh, dk gr inlams
5542½' - 5555'	Sh, dk gr, brtl, hd, irreg fracs, strks sltstn, mum carb foss
5555' - 5558'	S.s., vf-fg, lt gr, sa, hd, no perm, NSOF, well sort
5558' - 5559½'	5" dk grn Sh Sltstn, lt gr, hd, strks sh, mott spp
5559½' - 5592'	Sh, dk gr, brtl, pred irreg fracs, strks sltstn, fw grnsh & brn sh casts

Core #9 - 5592' - 5667' - Recovered 75'

5592' - 5598'	Sh & Sltstn, Sh dk gr, brtl, irreg fracs, fw carb intr, fw brnsh casts; Sltstn, lt gr, v hd, strks sh, dk gr, Sampled in sltstn for perm checks
5598' - 5612'	Pred 70% sltstn
5612' - 5618'	Pred 90% sltstn, a.a.
5618' - 5619'	S.s., inlams, ti, oil stn, tarnish v faint cut
5619' - 5624'	60% Sltstn, a.a.; 40% Sh, a.a.
5624' - 5639'	80% Sh, a.a.
5639' - 5640'	2" S.s., v ti, brn oil stn, yel flsn

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Core #9 (cont'd)

5640' - 5650'	Sltstn, lt gr, v hd, dns, lmy, irreg fracs, fw sh strks inlams
5650' - 5653'	brnsh oil stn, strks ti s.s., br yel flsn, li straw cut CCl_4
5653' - 5655'	strks oil stn'd s.s., aa, bcm perm, straw cut
5655' - 5657'	Bcm S.s., fg, sr, lt brn w/oil stn, m ti w/strks sh & sltstn, lt gr, hd, ti, 50% s.s.
5657' - 5659'	Bcm pred Sltstn w/fw strks oil s.s., aa., hd, ti, strkd sh, dk gr,
5659' - 5660'	5" S.s. fg, brn oil stn
5660' - 5667'	End of core

Core #10 - 5667' - 5750' - Recovered 83'

5667' - 5669'	5" Sltstn, dk gr, v hd, dns, lmy, vert frac
	S.s., dk gr, mg, sr, fri, v perm, blotchy flsn, wet?, no odor, blotchy stn
	5" Sltstn, lt gr, v hd, dns, lmy
5669' - 5672'	S.s., dk brn, mg, fri, v perm, slty, yel flsn, brn stn, gd pet odor, sr,
5672' - 5672½'	6" Sltstn, dk gr, v hd, dns, lmy
5672½' - 5679½'	S.s., dk brn, f-mg, fri, sr, v perm, slty, yel flsn, brn stn, gd pet odor, less fri below & more silty
	Sltstn,
5679½' - 5681'	Sh & Sltstn, dk gr, hd
5681' - 5683'	S.s., fg, dk gr-dk brn, hd, sr, blotchy flsn, yel blotchy brn stn, pet odor, possibly ti
5683' - 5684'	Sltstn, lt-dk gr, hd, bcm sh
5684' - 5687'	S.s., lt gr-tn, mg, sr, v perm, br yel flsn, blotchy tn stn
	4" Sh
5687' - 5688½'	S.s., f-mg, sr, fri, perm, blotchy brn stn & yel flsn
5688½' - 5689½'	10" Sh & Sltstn, dk gr, mott hd, irreg fracs
5689½' - 5692½'	S.s., f-mg, sr, v fri, perm, bri yel flsn, tn-brn stn, gd pet odor
5692½' - 5696'	Sltstn & Sh, pred sltstn, dk gr, hd, irreg fracs, mott app
5696' - 5698'	15" S.s., dk gr, fg, hd, perm? NSOF, sr
5698' - 5707'	5" S.s., gr, fg, sr, hd, dns, perm? NSOF
	Sh, dk gr, hd, pred irreg fracs, also fracs inlams
5707' - 5710½'	Sh aa
	1" S.s., fg-mg, sr, perm? tn & brn stn, free oil in fracs, gd flsn & pet odor
5710½' - 5711'	10" Sltstn, lt gr, v hd
5711' - 5720'	Sltstn, a.a.
5720' - 5728½'	Bcm 50% Sltstn, dk gr, hd
5728½' - 5735'	Sh, pred dk, gr-grn
5735' - 5745'	Sltstn, lt-dk gr, v hd, dns, fw strks, dk gr sh
5745' - 5747'	Sh, dk gr grn, hd irreg fracs
5747' - 5748'	Sltstn, dk gr, hd
5748' - 5750'	S.s., lt gr, v hd, dns, sr, blotchy brn oil stn & bri yel flsn. borders on sltstn, probably ti

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Core #11 - 5750' - 5840' - Recovered 90'

	5750' - 5756'	Sh & Sltstn (80% sh) Sh, dk gr brn, brtl, irreg fracs Sltstn, gr, v hd, irreg fracs, bed dips, visible v flat, mott
	5756' - 5760½'	Bcm pred Sltstn 90%
	5760½' - 5769½'	Bcm pred Sh 90%, irreg fracs tending in mott lams
	5769½' - 5771'	Bcm pred Sltstn, vcl, dk gr & lt gr
2	5771' - 5773'	fw strks lt gr & brn S.s., fg, pet odor, yel flsn
	5773' - 5774'	2" gilsonite
	5774' - 5781'	Sltstn, as
	5781' - 5784'	Bcm pred Sh, dk gr, brtl, irreg fracs
	5784' - 5793'	Bcm pred Sltstn, lt gr, v hd, strks sh inlams
	5793' - 5801'	Bcm pred Sh, gr grn, hd, brtl, irreg fracs
	5801' - 5812'	Bcm pred Sltstn, grn, hd, irreg fracs, lmy
	5812' - 5824'	Bcm pred lt gr color, v hd, dns, irreg fracs
	5824' - 5831'	Bcm pred Sh, dk gr, slty, brtl, irreg fracs
	5831' - 5834'	Bcm Sltstn, gr, fri, irreg fracs
6	5834' - 5840'	S.s., fg, lt gr, sl fri, dns, slty strks dk brn oil stn s.s., pet odor, yel flsn

December 2, 1955

DST #2 Two hour formation test of interval 5664 - 5700, J - K, lower Green River sands.

Ran Halliburton tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" O.D. Drill Collars, sidewall anchor tool. Three 8" O.D. packers, hydraulic valve, Hemco jars and safety jt. Set packers 5659', 5664' and 5700'. Sidewall anchor at 5715'. Opened valve 4.06 a.m. for 2 hours then closed for 30 minute shut-in test.

Strong initial blow. Gas to surface in 8 min. at 60 MCF/D. Declined to weak blow at end of test. Recovered 2650' net rise including 2560' gassy black high pour point oil which blew out intermittently (29° API, 96° F. Pour Pt.) and 90' muddy water testing 200 ppm Cl⁻. Bottom recorder failed.

Charts:

	IH	IF	FF	SI	FH
Top BT	2820	90	698	2036	2820
Middle BT	2852	121	707	2090	2828

Diamond cored 8 7/8" hole 4½" drill pipe, 9.5 ppg mud

Core #12 - 5840' - 5930' - Recovered 90'

	5840' - 5848'	Sltstn, gr-grn, dns, m hd, irreg fracs, lmy
7	5848' - 5855'	S.s., m-dk brn, fg, sr, fri, gd oil stn, dull gold brn flsn, fnt pet odor, wet?, slty, v perm
	5855' - 5856'	Bcm patchy mott Sltstn
	5856' - 5857'	Sltstn, gr, lmy, brtl, irreg fracs
3	5857' - 5860'	S.s., brn, mg, sr, v fri, gd oil stn, dull gold flsn

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Core #12 (cont'd)

	5860' - 5861'	Sltstn, gr grn, m fri, dns
4	5861' - 5865'	S.s., f-mg, dk brn, fri, gd oil stn, pet odor, mott dull gold & brn flsn, fw sltstn patches
	5865' - 5866'	Sltstn, gr grn, m fri, dns
4	5866' - 5870'	Bcm patches S.s., dk brn, fg, gd oil stn, gold & yel flsn
2	5870' - 5872½'	S.s., v dk brn, f-mg, m fri, gd oil stn, fnt pet odor, sr, bleeding black oil, v perm
	5872½' - 5873'	5" Sltstn strks sh inlams
2	5873' - 5875'	S.s., aa, bcm m hd, patchy sltstn
	5875' - 5879'	Sltstn, lt gr, m fri, sh inlams, mott app, fw s.s. strks, gd stn, tn flsn
4	5879' - 5883'	S.s., gr-tn, fg, hd, dns, low perm, strks sh in patches
3	5883' - 5886'	Bcm patch S.s., dk brn, gd stn, dull tan flsn
	5886' - 5891½'	Sltstn, dk gr-grn, brtl, irreg fracs
	5891½' - 5892'	3" S.s., mg, dk brn, v fri, gd oil stn
1	5894' - 5895½'	S.s., dk brn, mg, v fri, gd oil stn, tn flsn, fnt pet odor, v perm
2	5895½' - 5897'	Bcm patches gr grn S.s., wet?
1	5897' - 5898'	S.s., lt gr, mg, decr fri, perm, wet
	5898' - 5900'	Sltstn, grn, dns, hd, irreg fracs, dns imperm
	5900' - 5902'	Sltstn, lt gr, vfg, chalky, m fri, borders on vfg s.s.
2	5902' - 5904'	S.s., fg, gr, v hd, dns, irreg fracs, silty, poor sort, NSOF
	5904' - 5905'	10" Sltstn, lt gr
	5905' - 5907'	Bcm fnt oil stn & flsn
	5907' - 5910'	Sltstn, gr, brtl, dns, mott app, fri, strks sh
2	5910' - 5912'	Bcm strks S.s., tn, dns, fg, imperm? NSOF 50%
2	5912' - 5914'	S.s., lt brn, f-mg, lt brn oil stn, sr, no flsn, sour odor
	5914' - 5918'	Sltstn, vcl, lt gr, grn-tn, dns, vfg, imperm
4	5918' - 5922'	S.s., gr, vfg, hd, brtl, irreg fracs
	5922' - 5924'	Sh, gr, grn, brtl, irreg fracs inlams
	5924' - 5930'	Sltstn, gr-grn, vfg, dns, hd

Core #13 - 5930 - 6020 - Recovered 90'

	5930' - 5933'	Sltstn, lt gr, dns, m hd, irreg fracs
6	5933' - 5939½'	S.s., gr, f-mg, sr, well sort, NSOF, silty, abd sph
	5939½' - 5942'	Sltstn, lt gr, dns, m hd, irreg fracs
11	5942' - 5953½'	S.s., gr, f-mg, sr, well sort, m hd, irreg fracs, abd sph, NSOF
	5953½' - 5959'	Sltstn, lt gr, dns, irreg fracs
	5959' - 5968½'	Sh, dk gr, m hd, irreg fracs, tending inlams, strks sltstn, lt gr, lmy, fw pebs 1/4"
10	5968½' - 5978'	S.s., lt gr, f-mg, sr, well sort, abd sph, irreg fracs, NSOF, fri
	5978' - 5980½'	Sltstn, tn, gr, lmy, abd sph, incl mg ss, bcms cgl, ti w/sh & pebs
	5980½' - 5988'	Sltstn 80% & Sh(clystn); sltstn, lt gr, dns, v hd, irreg fracs; clystn, dk gr, silty, hd
	5988' - 5993½'	Bcm pred Sh, a.a.
	5993½' - 5996'	Sltstn, bcm pred sltstn, a.a.
4	5996' - 6000'	S.s., gr-tn, fg, hd, burnt odor, abd sph, fw oolites, NSOF
	6000' - 6005½'	Sh, dk gr, hd, pred irreg fracs
	6005½' - 6021'	Sltstn, lt gr-tn, v hd, irreg fracs, lmy, strks sh, dk gr

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Core #13 (cont'd)

3	6011' - 6014½'	S.s., vfg, lt gr, dns, v hd, NSOF
	6014½' - 6018'	Sltstn, aa, w/strks sh
2	6018' - 6020'	S.s., lt gr, vfg, v hd, dns, NSOF

Core #14 - 6020' - 6110' - Recovered 90'

	6020' - 6025'	Sltstn, gr, chky, dns, v hd, strks dk gr sh, in mott app
4	6025' - 6029'	S.s., lt gr, vfg, dns, m hd, scat blk sph, strks sltstn & sh, mott app, NSOF
	6029' - 6034½'	Sltstn, M gr, dns, v hd, lmy, strks dk gr sh in mott pattern, irreg fracs
7	6034½' - 6041'	S.s., lt gr, m-fg, dns, m hd, sr, perm, NSOF
	6041' - 6048¾'	Sh, dk gr, brtl, fracs in lams, strks sltstn in mott pattern
1	6048¾' - 6049½'	S.s., gr, vfg, dns, m hd, NSOF
	6049½' - 6050'	6" Sh, a.a.
2	6050' - 6052½'	S.s., vcl, brn & gr, fg, m hd, blotchy sltstn & flsn, fnt odor
	6052½' - 6059'	Sltstn, dk gr grn, m hd, irreg fracs bcms lt gr col
	6059' - 6062'	Sh, dk gr, brtl, hd, fracs in lams, strks sltstn
2	6062' - 6064'	S.s., vfg, lt gr, sl fri, sr, poor sort, NSOF
	6064' - 6065'	Sh, dk gr, brtl, dns, hd
	6065' - 6066½'	Sltstn, gr, dns, hd, incl small pebs
2	6066½' - 6068½'	S.s., vcl, lt brn & gr, fg, sr, spotty oil stn & flsn, fnt pet odor
	6068½' - 6076'	Sltstn, gr, dns, v hd, bcms shy w/strks dk gr sh
4	6076' - 6080½'	S.s., lt gr, vfg, chky, dns, m hd, sl fri, NSOF
	6080½' - 6081½'	12" Sh, dk gr, brtl, w/strks sltstn
	6081½' - 6093'	Bcm gmg, fri, more perm, sr, well sort, abd oste
	6093' - 6104'	Sltstn, lt gr, v hd, sh patches, dk gr grn
	6104' - 6110'	Bcms no sh, also chky

December 8, 1956

DST #3 Two hour formation test of interval 5848 - 5875. X sand. Basal Green River

Ran Halliburton tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" O.D. Drill Collars, sidewall anchor tool, three 8" O.D. packers, hydraulic valve, Hosco jars and safety jt. Set packers 5843, 5848 and 5875. Sidewall anchor at 5883'. Opened valve 4:06 a.m. for 2 hours then closed for 30 min. shut-in test.

Mild initial blow decreased in 2 min. to weak for remainder of test. Recovered 2262' including 20' mud, 180' gassy muddy water and 2062' gassy water testing 260 ppm Cl⁻. (Mud filtrate 60 ppm). Bottom chart indicates bottom packer held o.k.

Charts:

	IH	IF	FF	SI	FH
Top BT	2816	73	970	2150	2791
Middle BT	2843	168	1000	2178	2796

WELL NO. 14 PROPERTY: Section 16B RED WASH FIELD

Core #15 - 6110' - 6194' - Recovered 79'

	6110' - 6111'	Sltstn, gr, dns, hd, strks dk gr sh
3	6111' - 6114½'	S.s., lt gr, vfg, at top bcms fg, sr, below, fw clystn incl, scat blk sph, app wet, perm
	6114½' - 6115'	5" Sltstn
	6118'	3" oil stn, dull gold flsn, pet odor
	6122½' - 6123½'	10" Sltstn, gr, dns, v hd, dk gr sh strks
1	6123½' - 6124'	S.s., tn, f-mg, no flsn, no odor, poss stn, app wet
	6124' - 6126'	Sltstn, dk gr, cly
4	6126' - 6130'	S.s., lt brn, f-mg, sr, perm, vcl, oil stn, dull gold flsn, pet odor, bcm no stn below
	6130' - 6132'	Sltstn, lt gr, mott w/gr grn clystn
	6132' - 6132½'	Sh, clystn, gr grn
Wasatch	6132½' - 6133'	Rd brn clystn patches, first occurance Wasatch
	6135' - 6144'	a.a., w/scat clusters rd brn clystn
	6144' - 6147'	Clstn, red brn, vcl, badly washed
	6147' - 6159'	Sltstn, gr-grn, v hd, dns, scat strks dk gr clystn, sh
	6159' - 6160½'	18" abd osts
	6162' - 6166'	Bcm abd strks sh, a.a.
	6166' - 6167'	10" Ost coq
	6167' - 6170½'	Sh, clystn, dk gr grn
	6170½' - 6172'	Sh, clystn, bcm rd brn, vcl
	6172' - 6178'	Sltstn, vcl, lt gr-gr, dns, v hd, lmy
	6178' - 6181'	Ost coq, dolic
	6181' - 6185'	Oil stn in fracs
	6185' - 6188½'	Sltstn, gr-dk gr, mott, v hd, irreg fracs in lams
	6188½' - 6190'	8" S.s., fg, sr, slty, abd ost, oil stn?
	6190' - 6194'	Lost recovery 5' possibly above in clystn sections

Core #16 - 6194' - 6278' - Recovered 74'

6194' - 6196'	Sh, purple, blk, m sft, slty
6196' - 6198'	Sltstn, gr, v hd, irreg fracs
6198' - 6199'	Bcm Sh, gr, clystn
6199' - 6202'	Bcm mott w/brn rd col
6202' - 6206½'	Sltstn, gr, v hd, a.a.
6206½' - 6207½'	Bcm mott w/brn red col clystn
6207½' - 6211½'	Bcm all gr, v hd, a.a.
6211½' - 6213'	Sh, red brn, vcl, mott w/gr grn, purple, etc.
6213' - 6220'	Sltstn, gr, v hd, dns, irreg fracs
6220' - 6229'	Sh, red brn, vcl, mott w/purple, gr, & grn
6229' - 6230'	Sltstn, gr, chky, m hd, dns
6230' - 6232'	S.s., fg, gr, w/brn stn, scat, m fri, dull gold flsn, extremely penetrating irritating sour odor. (Carbide)
6232' - 6237½'	Sltstn, gr, hd, irreg fracs, odor a.a.
6237½' - 6241½'	Sh, brn rd, vcl w/grn, etc, odor a.a.
6241½' - 6249'	Sltstn, gr, hd, v hd, irreg fracs
6249' - 6253'	S.s., purple, brn, fg, even oil stn & dull gold flsn
6253' - 6257'	Bcm spotty stn, patchy sltstn, gr, v hd
6257' - 6260'	Sltstn, gr, v hd, dns
6260' - 6262'	Sh, gr grn
6262' - 6268'	Bcms red brn, vcl m sft
6268' - 6278'	No recovery

December 11, 1956

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Ran Schlumberger Electric Log and Microlog - Caliper. Recorded intervals: Electric Log - 6265' - 425'; Microlog - 6264' - 2800'.

MARKERS

Top Green River	3167'	(SS + 2310')
H Point	5034'	(SS + 443')
K Point	5712'	(SS - 235')

Lost and regained circulation after logging.

December 12, 1956.

Attempted test interval 6216 - 6278. No packer seat.

December 13, 1956.

DST #4 Two hour formation test of interval 6255' - 6278', K Sands, Basal Green River.

Ran Halliburton Tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" O.D. Drill Collars, 5 3/4" X 23' perf anchor, two 8" packers, hydraulic valve, Howco jars and safety joint. Set packers 6255' and 6248'. Opened valve 7:49 a.m. for 2 hours then closed for 30 min. shut-in test.

Mild blow 5 min. Decreased to weak in 10 min. for remainder of test. Recovered 400' rise, including 45' oil (33.5° API - 105° Pour Pt) and 255' oily muddy water testing 5080 ppm Cl⁻ above tools.

Charts:

	IH	IF	FF	SI	FH
Top BT	3060	52	176	1728	2992
Bottom BT	3074	88	135	1737	3012

Diamond Cored 8 7/8" hole 4½" D.P., 9 ppg mud.

Core #17 - 6282' - 6359' - Recovered 77'

6282' - 6290½'	Sh, clystn & mudstn, red brn, vcl, badly washed
6290½' - 6303'	Sltstn, gr-lt gr, dns, m hd, sdy, chky
6303' - 6304½'	Bcms mott w/red brn sh (clystn)
6304½' - 6309'	Sh, clystn & mudstn, red brn, sft, badly washed
6309' - 6313'	Sh, a.a., m hd, not washed, mott w/gr sltstn
6313' - 6320'	Sltstn, gr-lt gr, dns, m hd, sdy, ti
6320' - 6327'	S.s., gr, buff, fg, m hd, ti, carbide odor, lt brn spotty stn
6327' - 6339'	Bcms mg, brn, evn stn, carbide odor, perm, some scat pebs, cgl
6339' - 6342'	Sltstn, dk gr, mott w/brn red clystn
6342' - 6350'	Sh, red brn, vcl, clystn & mud stn, badly washed as indicated
6350' - 6359'	Sltstn, gr, v hd, dns

December 15, 1956

WELL NO. 14 PROPERTY: Section 18H RED WASH FIELD

Ran Schlumberger Electric log and Microlog - Caliper. Recorded interval 6359' - 6265'.

MARKERS

None

DST #5 50 minute formation test of interval 6328 - 6359, K Sands, Basal Green River.

Ran Halliburton Tester on dry 4½", 16.6# F.H. D.P., 266' of 6 3/4" D.C., 5 3/4" X 31' perforated anchor, two 8" packers, hydraulic valve, Howco jars and safety joint. Set packers at 6328' and 6323'. Opened valve 7:58 p.m. for 50 min. then closed for 30 min. shut-in test.

Fair blow immediately. Gas to surface in 6 minutes. Flow pitot tube meas - 480 MCF/D @ 15 minutes. Fluid in 20 min. Flowed estimated 250 B/D oily water & 500 MCF/D gas for remainder of test. Fluid cut approximately 95%. Flow sample of water tested 8000 ppm Cl^-. Fair blow during bleed off after closing valve. Recovered 365' rise, including 100' oily water (approximately 85% cut). Oil appears high gravity and low pour pt, possibly due to condensate. Bottom 265' oily water.

Charts:

	IH	IF	FF	SI	FH
Top BT	3015	200	755	2485	2920
Bottom BT	3010	290	790	2670	2940

Laid down 4½" drill pipe.

December 16, 1956

Cemented 7", 23# casing at 5800' in two stages.
(Howco D.V. collar at 5200')

First Stage: Howco mixed 60 sacks Control mix to 12½ ppg slurry and followed with 100 sacks neat Type I cement mixed to 15½ ppg slurry. 15 minutes mixing and 5 minutes pumping in 19 bbl mud spacer. 55 min. displacing DV opening plug with 210 bbl mud. Pressure dropped 800 psi to 200 psi. Circulation partial only after 40 min. Pumped 10 bbl. through ports and started second stage.

Second Stage: Mixed 175 sacks Controlmix to 12½ ppg slurry and followed with 100 sacks neat Type I cement mixed to 15½ ppg. Closure plug ahead last 5 sacks. 45 minutes mixing (truck failed) and 28 minutes displacing. Unable to reciprocate casing after first stage. Cement in place 8:45 p.m.

December 16, 1956.

WELL NO. 14 PROPERTY: Section 18B RED WASH FIELD

Casing Detail

Bottom	24 jts.	1028'	7" O.D. 23# N-80 Rg 3 new Republic seamless casing with 8 rd LT&C. Includes Baker Guide Shoe and Baker Differential Float Collar 2 joints up. Centralizers 5' above shoe and collars approximately 5655', 5155' and 5070'. Scratchers 5155 - 5164'. Howco DV collar at 5200'.
Top	120 jts. or	4787'	7" O.D. 23# J-55 Rg 3 new National seamless with 8 rd LT&C.
Total	144 jts. or	5815'	
Above K.B.		15'	
Cemented at		5800'	

Casing Summary

Landed 7" casing with 49 tons tension 15' below K.B. leaving 5785' of casing cemented at 5800' (CPD at 5200')

Ran thermometric and located top annular cement at 3750'.

Stood cemented 51 hours. Made up 2 7/8" tubing.

D.O. cement & D.V. collar 5180' - 5205'. D.O. cement 5678' - 5730'.

Displaced hole fluid with 8.8 ppg oil base mud.

December 20, 1956.

Ran McCullough Gamma Ray Collar Locator Log.
Recorded interval 5730 - 4500'. Showed DV collar at 5202' (casing measurement 5200').

McCullough perforated following intervals with 3 jets and 4 bullets per foot using collars for reference.

Schlumberger Depth	Gamma Ray Depth	Core Depth
5660 - 5688	5665 - 5693	5666 - 5694
5134 - 5148	5136 - 5150	5137 - 5151
5104 - 5130	5106 - 5132	5107 - 5133

December 21, 1956.

WELL NO. 14 PROPERTY: Section 188 RED WASH FIELD

Ran casing scraper to 5730'.

S.O.S. #1 (perforations 5660' - 5688')

Ran Baker Full-bore Retrievable Cementer on 2 7/8" tubing. Spotted 2 barrels of Burner Fuel #5 opposite perfs. Pulled up and set cementer at 5640' after clearing tubing with Burner Fuel. Pressured annulus to 1000 psi. Halliburton broke down formation with 3500 psi. Pumped in 35 barrels Rangely crude in 5 minutes. Followed with 125 barrels B.F. #5 mixed with 2.2 #/ gal. 20-40 Ottowa sand in 27 minutes. Followed with 62 barrels Rangely crude then 20 barrels B.F. #5. Injected 135 plug-off balls after 100 barrels of sand oil mix. Maximum pressure 3900 psi while displacing in 15 minutes. Final pressure 1200 psi. Started bleed off after 15 minutes. Shut in after 15 min. bleeding for additional 45 minutes. Then flowed for 3 hours steady rate until formation crude appeared. (65 barrels flow back). Opened packer bypass and bled tubing to dead in 30 minutes.

December 22, 1956.

S.O.S. #2)perforations 5134' - 5148' and 5104' - 5130')

Ran Baker Retrievable Bridge Plug and Full Bore Retrievable Cementer. Set bridge plug 5172'. Cleared tubing with B.F. #5 and set cementer 5089'. Pressured annulus to 1000 psi. Breakdown pressure 2000 psi. Halliburton pumped in 30 barrels Rangely crude. Followed with 185 barrels B.F. #5 mixed with 1.5 #/gal. 20-40 Ottowa sand. Followed with 30 barrels Rangely crude and finally 34 barrels B.F. #5. Max pressure 2000 psi. Displacement times indeterminate due to numerous equipment failures. After 1 hour shut-in bled 1½ hours constant flow (20 barrels). Opened packer bypass and filled annulus. Found sand fill over bridge plug. Circulated over and pulled without recovering bridge plug. Reran and recovered bridge plug.

December 23, 1956.

Landed 2 7/8" tubing at 5619'.

Bottom	1 jt.	or	31'	2 7/8" UE 6.5# J-55 Range 2 perforated stinger with orange peeled end, 8 rd T&C.
Next	180 jts.	or	5575'	2⅞" UE 6.5# J-55 Range 2 & 3 8 rd T&C. PSN #16625 (Axelson 2⅞ x 45) at 5557' below K.B.
Total	181 jts.	or	5606'	
Below K.B.			13'	
	Hung		5619'	

Swabbed and flowed for production test. After producing back 165 barrels switched flow to formation crude tank. Produced total 942 barrels gross to formation crude tank with approx. 35-40% water cut. Guage last 9 hours 192 barrels gross with 35-40% water cut.

Displaced tubing with B.F. #5 and shut well in.

December 25, 1956.

Rig released 4:00 p.m. December 25, 1956.

Tore out equipment and moved out.

H. E. WHITNEY

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, CO

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 592' FWL
AT TOP PROD. INTERVAL: (SWSW)
AT TOTAL DEPTH:

5. LEASE
U-0116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Red Wash

8. FARM OR LEASE NAME

9. ~~WELL~~ NO.
52 (14-18B)

10. FIELD OR WILDCAT NAME
Red Wash

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18, T17S, R23E

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

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
DF 5430

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.)*

This well was acidized as follows:

1. MIRU, hot oil csg. & tbg, POOH w/rods & tbg. Made run with bit & scraper. C/O to 5730' RIH w/Pkr.
2. Perfed 5104-30 & 5134-48 w/2 spf. Breakdown perfs w/2% KCL., SWBD Perfs.
3. Acidize Perfs 5660-88'.
4. Swb. & tested Perfs. POOH w/Pkr.
5. RIH w/prod. string, ND BOPE, NU TREE.
6. RIH w/pump & rods, RD MOL.

3 - USGS
2 - State
3 - Partners
1 - Field Foreman
1 - Sec. 723
1 - File

RECEIVED
NOV 2 1 1986
DIV OF OIL, GAS & MINING

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

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

SIGNED [signature] TITLE Engineer Asst. DATE January 27, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

RED WASH UNIT #52
UINTAH COUNTY, UTAH

ATTACHMENT H

PETROLITE

Petrolite Corporation
369 Marshall Avenue
St. Louis, MO 63119-1897

(314) 961-3500
Fax (314) 968-6219

WATER ANALYSIS REPORT

Company: Chevron USA, Inc.

Sampling Date: 29-Jan-96
Analysis Date: 15-Feb-96
Sample ID: 1351

Sample Source
Lease: Red Wash
Well: Central Battery
Sample Pt: WIS Pump Suction

Submitted by: Campbell R L
Sampled by: Campbell R L
Chem. Treatment:
Sample Condition:

ANALYTICAL RESULTS

pH at the time of sampling: 8.50
pH at the time of analysis: 8.50
Density: 1.007
Hydrogen Sulfide (H2S):
TDS: Calculated 9996.8 mg/L

CONSTITUENT		mg/L	meq/L	method	comments
ANIONS					
*Bicarbonate	HCO3-	3170.0	51.95	FIA	
Boron	B(OH)4-	59.5	.75	ICP	
*Carbonate	CO3--	624.0	20.80	FIA	
*Chloride	Cl-	2720.0	76.72	FIA	
Phosphate	PO4---	.0	.00	ICP	DL=2.02
*Sulfate	SO4--	48.0	1.00	FIA	
	SUM OF ANIONS=		151.23		
CATIONS					
Aluminum	Al+++	16.7	1.86	ICP	
*Barium	Ba++	.0	.00	ICP	DL=2.02
*Calcium	Ca++	5.7	.28	ICP	
Chromium	Cr+++	.0	.00	ICP	DL=10.1
Copper	Cu++	.0	.00	ICP	DL=2.02
*Iron	Fe++	.0	.00	ICP	DL=2.02
Lead	Pb++	.0	.00	ICP	DL=10.1
Lithium	Li+	.0	.00	N.A.	
*Magnesium	Mg++	.0	.00	ICP	DL=2.02
Manganese	Mn++	.0	.00	ICP	DL=2.02
Nickel	Ni++	.0	.00	ICP	DL=2.02
Potassium	K+	21.2	.54	ICP	
Silica	SiO2	44.7	.00	ICP	
*Sodium	Na+	3287.0	142.98	ICP	
*Strontium	Sr++	.0	.00	ICP	DL=2.02
Vanadium	V++	.0	.00	N.A.	
	SUM OF CATIONS=		145.66		

Ratio of ANIONS:CATIONS 1.04

PETROLITE

Petrolite Corporation
369 Marshall Avenue
St. Louis, MO 63119-1897

(314) 961-3500
Fax (314) 968-6219

SATURATION INDEX TABLE

Sample ID: 1351
pH (at 25.0 deg C): 8.50

Temperature		Scale Component				
deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00	.00	.853	-4.472	-3.654	-97.664	-93.886
68.00	20.00	.794	-4.244	-3.754	-97.681	-94.215
77.00	25.00	.779	-4.190	-3.768	-97.677	-94.292
104.00	40.00	.737	-4.034	-3.791	-97.649	-94.511
140.00	60.00	.700	-3.837	-3.797	-97.586	-94.781
176.00	80.00	.708	-3.651	-3.791	-97.505	-95.030
212.00	100.00	.768	-3.466	-3.781	-97.416	-95.263

S.I.=SATURATION INDEX
S.I.=log(Product of activities of component ions/Ksp)

S.I. less than 0	The water is undersaturated and indicates a non-scaling situation.
S.I. near or equal to 0	The water is saturated and scale formation is likely.
S.I. greater than 0	The water is supersaturated and favors scale formation.

POSSIBLE SCALE FORMATION

Temperature		Scale Component (mg/1000 g H2O)				
deg F	deg C	CaCO3 (Calcite)	CaSO4 (Anhydrite)	CaSO4*2H20 (Gypsum)	SrSO4 (Celestite)	BaSO4 (Barite)
32.00	.00	12.	0.	0.	0.	0.
68.00	20.00	12.	0.	0.	0.	0.
77.00	25.00	12.	0.	0.	0.	0.
104.00	40.00	12.	0.	0.	0.	0.
140.00	60.00	11.	0.	0.	0.	0.
176.00	80.00	11.	0.	0.	0.	0.
212.00	100.00	12.	0.	0.	0.	0.

The POSSIBLE SCALE FORMATION predicts the maximum amount of any one scale component that could precipitate from the water as analyzed. As precipitation progresses, these predictions become less accurate.

To estimate the POSSIBLE SCALE FORMATION in lbs/1000 barrels (US 42 gal) use the following:
APPROXIMATE lbs/1000 barrels = (mg/1000g H2O) x 0.35

RED WASH UNIT #52
UINTAH COUNTY, UTAH

ATTACHMENT L

RWU #52: CONVERSION TO INJECTION PROCEDURE

1. MIRU. HOT OIL WELL AS NEEDED. TOH AND LD RODS AND PUMP.
2. ND WH AND NU BOPE. RELEASE TUBING ANCHOR AND TOH.
3. CLEAN OUT TO PBTD. TOH AND LD BARE TUBING.
4. RUN GR-CBL-CCL FROM PBTD TO A MINIMUM OF 200' ABOVE CEMENT TOP.
5. TIH WITH RETRIEVABLE TANDEM PACKERS SPACED TO EXCLUDE Hb/Hb50 AND Hc PERFORATIONS FROM THE TARGET INJECTION INTERVAL. CIRCULATE CORROSION INHIBITED PACKER FLUID AND DIESEL FREEZE BLANKET. SET PACKERS AT ~5050' AND ~5200'. NOTE - TUBING SIZE (2-3/8: OR 2-7/8") WILL DEPEND UPON IDLE EQUIPMENT INVENTORY AT TIME OF CONVERSION. ALL EQUIPMENT WILL BE INTERNALLY COATED.
6. ND BOPE AND NU WH. CONDUCT MECHANICAL INTEGRITY TEST (ANNULUS PRESSURE OF 1000 PSI WITH NO MORE THAN 10% LOSS IN 15 MIN). RECORD ON CHART.
7. RDMO.
8. RU WIRELINE UNIT AND RUN PRESSURE BOMB TO DETERMINE STATIC BOTTOM HOLE PRESSURE. RD WIRELINE.
9. TWOTP. INJECTION WILL COMMENCE FOLLOWING COMPLETION OF INJECTION FLOWLINE, METER RUN INSTALLATION AND EPA AUTHORIZATION IN INJECT.

RED WASH UNIT #52
UINTAH COUNTY, UTAH

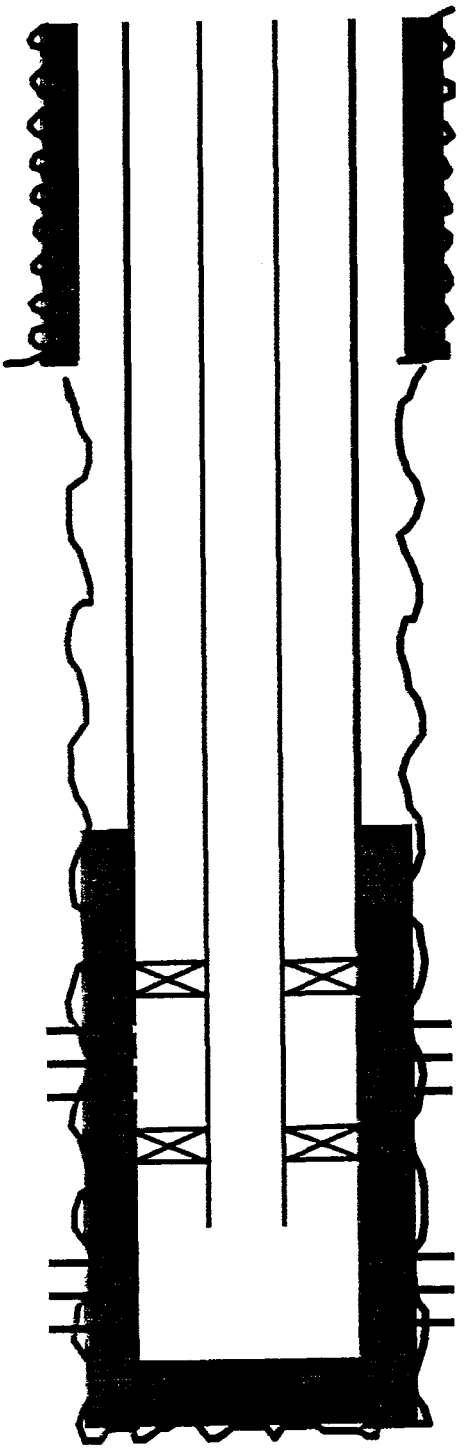
ATTACHMENT M

PROPOSED
WELLBORE DIAGRAM

WELL: RED WASH UNIT #52
LOCATION: 660' FSL & 592' FWL
SWSW-SEC. 18-T7S-R23E
UINTAH COUNTY, UTAH

LEASE: U-0116
API #: 43-047-15178

KBE: 5477'
GLE: 5465'
TD: 6359'
PBTD: 5730'



TUBING DETAIL:
2 7/8" 6.5# J-55 -or-
2 3/8" 4.7# J-55

ORIGINAL TOC @ UNKNOWN

PACKER #1 SET @ 5050'

PACKER #2 SET @ 5200'

PBTD: 5730'
TD: 6359'

SURFACE HOLE & CASING:

HOLE SIZE: 15"
CSG. TYPE & SIZE: 10-3/4" 40.5# J-55
SETTING DEPTH: 425'
CEMENT: 275 SX COMMON
CEMENT TOP: SURFACE

GEOLOGIC MARKERS:

UINTA: SURFACE
GREEN RIVER: 3115'
OIL SHALE: 3865-3885'
TARGET INTERVAL: 5629-5714'

PERFORATIONS:

5104-30'	Hb/Hb50	EXCLUDED
5134-48'	Hc	EXCLUDED
5629'	Jb	OPEN
5660-88'	Jd/Je	OPEN
5714'	K	OPEN

PRODUCTION HOLE AND CASING:

HOLE SIZE: 9"
CSG. TYPE & SIZE: 7" 23# J-55 / N-80
SETTING DEPTH: 5800'
CEMENT: 160 SX REGULAR OUT SHOE :
275 SX REGULAR OUT DV TOOL
AT 5200'

RED WASH UNIT #52
UINTAH COUNTY, UTAH

ATTACHMENT Q

P & A PLAN
WELLBORE DIAGRAM

WELL: RED WASH UNIT #52
LOCATION: 660' FSL & 592' FWL
SWSW-SEC. 18-T7S-R23E
UINTAH COUNTY, UTAH

LEASE: U-0116
API #: 43-047-15178

KBE: 5477'
GLE: 5465'
TD: 6359'
PBTD: 5730'

PLUG #4: SURFACE PLUG
PERFORATATE @ 300' AND
CIRCULATE 142.81 SX CLASS H
CEMENT TO SURFACE.
TOP @ SURFACE
BOTTOM @ 300'

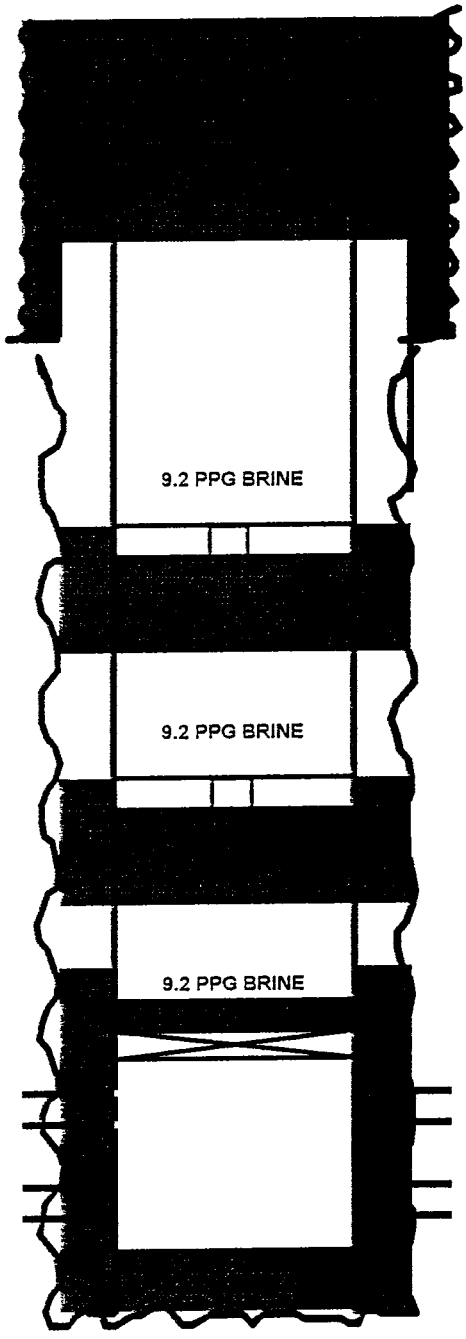
ORIGINAL TOC @ UNKNOWN

PLUG #3: GREEN RIVER PLUG
PERFORATE @ 3165' & SET
CICR @ 3065'. SQUEEZE 37.31
SX CLASS H CEMENT UNDER CICR.
TOP @ 3065'
BOTTOM @ 3165'

PLUG#2: OIL SHALE PLUG
PERFORATE AT 3935' & SET
CICR @ 3815'. SQUEEZE
44.77 SX CLASS H CEMENT
UNDER CICR.
TOP @ 3815'
BOTTOM @ 3935'

PLUG #1: CIBP @ 5050'
DUMP-BAIL 35' CLASS H
CEMENT ON CIBP
TOP @ 5015'
BOTTOM @ 5050'

PBTD: 5730'
TD: 6359'



SURFACE HOLE & CASING:

HOLE SIZE:	15"
CSG. TYPE & SIZE:	10-3/4" 40.5# J-55
SETTING DEPTH:	425'
CEMENT:	275 SX COMMON
CEMENT TOP:	SURFACE

GEOLOGIC MARKERS:

UINTA:	SURFACE
GREEN RIVER:	3115'
OIL SHALE:	3865-3885'
TARGET INTERVAL:	5629-5714'
WASATCH:	6188'

PERFORATIONS:

5104-30'	Hb/Hb50
5134-48'	Hc
5629'	Jb
5660-88'	Jd/Je
5714'	K

PRODUCTION HOLE AND CASING:

HOLE SIZE:	9"
CSG. TYPE & SIZE:	7" 23# J-55 / N-80
SETTING DEPTH:	5800'
CEMENT:	160 SX REGULAR OUT SHOE : 275 SX REGULAR OUT DV TOOL AT 5200'

RWU #52: PLUGGING PROCEDURE

1. MIRU. ND WH AND NU BOPE.
2. RELEASE PACKER, TOH AND RIH WITH INTERNALLY COATED INJECTION STRING.
3. POH BIT, SCRAPER AND WORKSTRING. CLEAN OUT TO ~5065'.
4. PLUG #1: SET CIBP @ 5050' AND DUMP-BAIL 35' (7.30 SX) CLASS H CEMENT ON THE SAME. DISPLACE WELL WITH 9.2 PPG BRINE TO ~3800'.
5. PLUG #2 (OIL SHALE 3865-3885'): PERFORATE @ 3935' AND SET CICR @ 3815'. SQUEEZE 44.77 SX CLASS H CEMENT UNDER CICR, STING-OUT OF CICR AND CIRCULATE CLEAN. DISPLACE WELL VOLUME ABOVE CICR WITH 9.2 PPG BRINE TO ~3050'.
6. PLUG #3 (GREEN RIVER 3115'): PERFORATE @ 3165' AND SET CICR @ 3065'. SQUEEZE 37.31 SX CLASS H CEMENT UNDER CICR, STING-OUT OF CICR AND CIRCULATE CLEAN. DISPLACE WELL VOLUME ABOVE CICR WITH 9.2 PPG BRINE TO SURFACE.
7. PLUG #4 (SURFACE CASING PLUG): TOP OF CEMENT UNKNOWN. PERFORATE @ 300' AND PUMP 142.81 SX CLASS H CEMENT. CIRCULATE TO SURFACE.
8. CUT OFF WH AND INSTALL DRY HOLE MARKER.
9. RDMO. NOTIFY OPERATIONS TO REHAB LOCATION.

RED WASH UNIT #52
UINTAH COUNTY, UTAH

ATTACHMENT T

INJECTI WELL INVENTORY
RED WASH UNIT
UINTAH COUNTY, UTAH

WELL	LOCATION	API #	EPA ID #
#100A (43-21A)	NESE-21-7S-22E	43-047-15219	UT02463
#102 (41-24A)	SENE-24-7S-22E	43-047-15221	UT02406
#11 (34-27B)	SWSE-27-7S-23E	43-047-15142	UT02395
#14 (14-13B)	SWSW-13-7S-23E	43-047-15144	UT02396
#148 (13-22B)	NWSW-22-7S-23E	43-047-15261	UT02407
#156 (23-15B)	NESW-15-7S-23E	43-047-15267	UT02409
#173 (21-21B)	NENW-21-7S-23E	43-047-16496	UT02439
#174 (21-20B)	NENW-20-7S-23E	43-047-15281	UT02411
#182 (14-21B)	SWSW-21-7S-23E	43-047-16497	UT02440
#183 (33-13B)	NWSE-13-7S-23E	43-047-15289	UT02412
#185 (41-14B)	NENE-14-7S-23E	43-047-16498	UT02441
#199 (43-22A)	NESE-22-7S-22E	43-047-15301	UT02414
#2 (14-24B)	SWSW-24-7S-23E	43-047-16472	UT02416
#213 (41-33B)	NENE-33-7S-23E	43-047-20060	UT02444
#216 (21-27A)	NENW-27-7S-22E	43-047-30103	UT02446
#23 (21-23B)	NENW-23-7S-23E	43-047-15151	UT02397
#25 (23-23B)	NESW-23-7S-23E	43-047-16476	UT02420
#264 (31-35B)	NWNE-35-7S-23E	43-047-30519	UT02449
#275 (31-26B)	NWNE-26-7S-23E	43-047-31077	UT02455
#279 (11-36B)	NWNW-36-7S-23E	43-047-31052	UT02453
#34 (23-14B)	NWSW-14-7S-23E	43-047-15161	UT02398
#56 (41-28B)	NENE-28-7S-23E	43-047-15182	UT02400
#59 (12-24B)	SWNW-24-7S-23E	43-047-16477	UT02421
#6 (41-21B)	NENE-21-7S-23E	43-047-16482	UT02426
#61 (12-27A)	SWNW-27-7S-22E	43-047-16478	UT02422
#7 (41-27B)	NENE-27-7S-23E	43-047-15205	UT02417
#88 (23-18B)	NESW-18-7S-23E	43-047-15210	UT02404
#91 (33-22B)	NWSE-22-7S-23E	43-047-16479	UT02423
#93 (43-27B)	NESE-27-7S-23E	43-047-16480	UT02424
#271 (42-35B)	SENE-35-7S-23E	43-047-31081	UT02458
#281 (11-25B)	NWNW-25-7S-23E	43-047-31078	UT02456
#134 (14-29B)	SWSW-29-7S-23E	43-047-16489	UT02433
#139 (43-29B)	NESE-29-7S-23E	43-047-16490	UT02434
#150 (31-22B)	NWNE-22-7S-23E	43-047-15263	UT02408
#16 (43-28B)	NESE-28-7S-23E	43-047-16475	UT02419
#161 (14-20B)	SWSW-20-7S-23E	43-047-15271	UT02410
#170 (41-15B)	NENE-15-7S-23E	43-047-16495	UT02438
#202 (21-34A)	NENW-34-7S-22E	43-047-15303	UT02415
#215 (43-28A)	NESE-28-7S-22E	43-047-30058	UT02445
#263 (24-26B)	SESW-26-7S-23E	43-047-30518	UT02448
#265 (44-26B)	SESE-26-7S-23E	43-047-30520	UT02450
#266 (33-26B)	NWSE-26-7S-23E	43-047-30521	UT02451
#269 (13-26B)	NWSW-26-7S-23E	43-047-30522	UT02452
#48 (32-19B)	SWNE-19-7S-23E	43-047-15174	UT02399
#60 (43-30B)	NESE-30-7S-23E	43-047-15184	UT02401
#68 (41-13B)	NENE-13-7S-23E	43-047-16485	UT02429
#97 (23-18C)	NESW-18-7S-24E	43-047-15216	UT02405

RWUINJ.XLS

INJECTION WELL INVENTORY
WONSITS VALLEY FEDERAL UNIT
UINTAH COUNTY, UTAH

WELL	LOCATION	API#	EPA ID#
SC #12-23	NESE-23-3S-21E	43-047-20203	UT02367
WVFU #126	NWNE-21-3S-21E	43-047-30796	UT02509
WVFU #140	NWNW-15-3S-21E	43-047-31707	UT03508
WVFU #143	NWSE-10-3S-21E	43-047-31808	UT03509
WVFU #16	NENE-15-3S-21E	43-047-15447	UT02469
WVFU #21	NENE-16-3S-21E	43-047-15452	UT02471
WVFU #23-2	NESW-11-3S-21E	43-047-31524	UT02510
WVFU #31	NENW-14-3S-21E	43-047-15460	UT02394
WVFU #36	NESW-10-3S-21E	43-047-15464	UT02479
WVFU #40-2	NESE-10-3S-21E	43-047-31798	UT02511
WVFU #41	NENW-15-3S-21E	43-047-15496	UT02483
WVFU #59	SWNW-14-3S-21E	43-047-20018	UT03505
WVFU #60	SWSE-15-3S-21E	43-047-20019	UT03506
WVFU #67	NESW-15-3S-21E	43-047-20043	UT02497
WVFU #68	NESE-15-3S-21E	43-047-20047	UT02498
WVFU #71-2	SWSW-15-3S-21E	43-047-32449	UT2712-03777
WVFU #72	SWSW-16-3S-21E	43-047-20058	UT02501
WVFU #73	NESE-16-3S-21E	43-047-20066	UT02502
WVFU #78	NESW-16-3S-21E	43-047-20115	UT02504
WVFU #9	NESE-12-3S-21E	43-047-15440	UT02466
WVFU #50	SWNE-15-3S-21E	43-047-15477	UT03504
WVFU #52	NENE-13-3S-21E	43-047-15479	UT02460
WVFU #61	NENW-18-3S-22E	43-047-20023	UT02495
WVFU #66	SWSE-14-3S-21E	43-047-20042	UT03098
WVFU #120	NENW-22-3S-21E	43-047-32462	UT2770-04264

INJECTION WELL IN NTORY
GYPSUM HILLS UNIT
UINTAH COUNTY, UTAH

WELL	LOCATION	API #	EPA ID #	WELL STATUS
COSTAS FED #1-20-4B	NESW-20-8S-21E	43-047-31006	UT2726-03792	AC
COSTAS FED #2-20-3B	NESE-20-8S-21E	43-047-31066	UT03722	AC
COSTAS FED #3-21-1D	SWNW-21-8S-21E	43-047-31604	UT02714	AC
GHU #10	NWSE-21-8S-20E	43-047-32306	UT03721	AC
GHU #12	NESE-19-8S-21E	43-047-32458	UT2727-03794	AC
GHU #3	NENE-20-8S-21E	43-047-20002	UT2759-04241	AC
GHU #6	NENW-20-8S-21E	43-047-30099	UT2760-04242	AC
GHU #8-I	SWNE-20-8S-21E	43-047-31932	UT02715	AC

NOTICE OF AGENCY ACTION
CAUSE NO. UIC-186

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

IN THE MATTER OF APPLICATION OF CHEVRON USA, INC. FOR ADMINISTRATIVE APPROVAL OF THE RED WASH 17, 52 AND 258 WELLS LOCATED IN SECTION 20, 18 AND 22, TOWNSHIP 7 SOUTH, RANGE 22 AND 23 EAST, S.L.M., UINTAH COUNTY, UTAH AS CLASS II INJECTION WELLS

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

Notice is hereby given that the Division of Oil, Gas and MIning (the "Division") is commencing an informal adjudicative proceeding to consider the application of Chevron USA Inc. for administrative approval of the Red Wash 17, 52 and 258 wells, located in Sections 20, 18 and 22, Township 7 South, Range 22 and 23 East, S.L.M., Uintah County, Utah for conversion to Class II injection wells. The proceedings will be conducted in accordance with Utah Admin. R649-0, Administrative Procedures.

The interval from 5507 feet to 5714 feet (Green River Formation) will be selectively perforated for water injection. The maximum injection pressure will be limited for each individual well based on perforation depth and submittal fracture pressure information.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 16th day of December 1996.

STATE OF UTAH DIVISION OF OIL, GAS & MINING

R. J. FIRTH,
Associate Director, Oil & Gas

Published in the Vernal Express Dec. 25, 1996.

PROOF OF PUBLICATION

STATE OF UTAH,
} SS.
County of Uintah

OFFICE COPY

I, SHEILA S. WHEELER,
being duly sworn, depose and say, that I am the Business Manager of The Vernal Express, a weekly newspaper of general circulation, published each week at Vernal, Utah, that the notice attached hereto was published in said newspaper

for 1 publications,

the first publication having been made on

the 25th day of December, 1996 and the

last on the 25th day of December, 1996,

that

said notice was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in a supplement.

By Sheila S. Wheeler
Manager

Subscribed and sworn to before me, this 25th day of December A.D. 1996.

Jack R. Wallis
Notary Public, Residence, Vernal, Utah

JACK R WALLIS
Notary Public
STATE OF UTAH
My Comm. Expires JUN 18, 1997
54 N VERNAL AVE VERNAL UT 84078

143 SOUTH MAIN ST.
P.O.BOX 45838
SALT LAKE CITY, UTAH 84145
FED.TAX I.D.# 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune DESERET NEWS

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL, GAS & MINING 1594 W NORTH TEMPLE STE # 1210 SALT LAKE CITY UT 84114	D5385340L-07	12/21/96

ACCOUNT NAME	
DIV OF OIL, GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TLCI8200561
SCHEDULE	
START 12/21/96 END 12/21/96	
CUST. REF. NO.	
UIC-186	
CAPTION	
NOTICE OF AGENCY ACTIONCAUSE N	
SIZE	
74 LINES 1.00 COLUMN	
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	121.36
	TOTAL COST
	121.36

OFFICE COPY

NOTICE OF AGENCY ACTION
CAUSE NO. UIC-186
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF CHEVRON USA, INC. FOR ADMINISTRATIVE APPROVAL OF THE RED WASH 17, 52 AND 258 WELLS LOCATED IN SECTIONS 20, 18 AND 22, TOWNSHIP 7 SOUTH, RANGE 22 AND 23 EAST, S.L.M., UINTAH COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 16th day of December, 1996.

STATE OF UTAH
DIV. OF OIL, GAS AND MINING
R. J. Firth
Associate Director, Oil & Gas
CI820050

AFFIDAVIT OF PUBLICATION

PAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED
SEMENT OF NOTICE OF AGENCY ACTIONCAUSE N FOR
OIL, GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY
TION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS
IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED
LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

D ON START 12/21/96 END 12/21/96

E Jane Moore

12/21/96

Notary Public
Jane Moore
2120 Hartford St.
Salt Lake City, UT 84106
My Commission Expires
March 31, 2000
STATE OF UTAH

IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

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

---ooOoo---

IN THE MATTER OF THE APPLICATION OF CHEVRON USA, INC. FOR ADMINISTRATIVE APPROVAL OF THE RED WASH 17, 52 AND 258 WELLS LOCATED IN SECTIONS 20, 18 AND 22, TOWNSHIP 7 SOUTH, RANGE 22 AND 23 EAST, S.L.M., UINTAH COUNTY, UTAH, AS CLASS II INJECTION WELLS	:	NOTICE OF AGENCY ACTION CAUSE NO. UIC-186

---ooOoo---

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Dated this 16th day of December 1996.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

R. J. Firth
Associate Director, Oil & Gas

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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

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

December 16, 1996

Newspaper Agency Corporation
Legal Advertising
Tribune Building, Front Counter
143 South Main
Salt Lake City, Utah 84111

Re: Notice of Agency Action - Cause No. UIC-186

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Larraine Platt

Larraine Platt
Secretary

Enclosure

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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

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

December 16, 1996

Vernal Express
P.O. Box 1000
54 North Vernal Avenue
Vernal, Utah 84078

Re: Notice of Agency Action - Cause No. UIC-186

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Larraine Platt

Larraine Platt
Secretary

Enclosure

Chevron USA, Inc.
Red Wash 17, 52 and 258 Wells
Cause No. UIC-186

Publication Notices were sent to the following:

Chevron USA, Inc.
11002 East 17500 South
Vernal, Utah 84078-8526

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Vernal Express
P.O. Box 1000
54 North Vernal Avenue
Vernal, Utah 84078

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

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

Larraine Platt

Larraine Platt
Secretary
December 16, 1996

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

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

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

December 31, 1996

Chevron USA Production Company
11002 East 17500 South
Vernal, Utah 84078-8526
Attention: John Conley

Re: Injection Applications for Red Wash Unit Wells 17, 52, 258 and Wonsits Valley Wells 35 and 97

Dear Mr. Conley:

Applications for the above referenced wells have been received by the Division. A public notice was sent to the Salt Lake Tribune and the Vernal Express, both of which were published on or about December 24, 1996.

The applications are technically complete, however pursuant to Division rules the area of review (AOR) is a one-half mile radius around the proposed well. Additionally, Division rules require that an affidavit be submitted stating that all operators, surface owners and lease holders within the one-half mile AOR have been notified of your intent.

Please submit the above information at your earliest convenience so that the review of the application can be completed. If you have any questions please call me at 801-538-5338.

Sincerely,

Dan Jarvis

Dan J. Jarvis
UIC Geologist

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

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

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

May 6, 1997

Chevron USA, Inc.
11002 East 17500 South
Vernal, Utah 84078-8526

Re: Red Wash Unit 17, 52 and 258 wells, Sections 20, 18 and 22, Township 7 South, Range 22 and 23 East, Uintah County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced wells to Class II injection wells. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.

2. Conformance with all conditions and requirements of the complete application submitted by Chevron USA, Inc.

If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

Lowell P. Braxton
Deputy Director

cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Vernal

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

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

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

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-186

Operator: Chevron USA, INC.

Wells: Red Wash Unit 17, 52 and 258

Location: Sections 20, 18, and 22 Township 7 South, Range 22 and 23 East, County: Uintah

API No.: 43-047-15146, 43-047-15178 and 43-047-30458

Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on May 6, 1997

2. Maximum Allowable Injection Pressure: 1917 psig for the RWU 17, 1936 psig for the RWU 52 and 1894 psig for the RWU 258

3. Maximum Allowable Injection Rate: (restricted by pressure limitation)

4. Injection Interval: 5507 feet to 5714 feet (Green River Formation)

Approved by: Lowell P. Braxton — 5/6/97

Lowell P. Braxton
Deputy Director

Date

Chevron

MARCH 11, 1998

MINOR PERMIT MODIFICATION REQUESTS
FRACTURE GRADIENT ASSIGNMENT
RED WASH UNIT

Chevron U.S.A. Production Co.
Rocky Mountain Profit Center
11002 East 17500 South
Vernal, UT 84078-8526
(801) 781-4300

MR. CHUCK WILLIAMS
UIC IMPLEMENTATION SECTION
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, CO 80202-2466
8P2-W-GW

RECEIVED
MAR 20 1998
DIV. OF OIL, GAS & MINING

Dear Mr. Williams:

Based on January 1998 step-rate data from several Red Wash Unit wells, Sharon L. Kercher, Director, Technical Enforcement Program, approved the use of a 0.81 psi/ft. fracture gradient in the calculation of maximum surface injection pressure for rule authorized wells in the Unit. Ms. Kercher's February 18, 1998 letter stated that this authorization does not apply to any wells in Red Wash Unit with individual UIC Permits. Please recall that a value of 0.78 psi/ft. was assigned to Red Wash Unit several years ago and has been used in all UIC Permit Applications since. Given recent step-rate data, we believe a value of 0.81 psi/ft. should be assigned to all water injectors in Red Wash Unit and respectfully request several minor permit modifications to reflect this change. The following permits are involved: S. 18 T. 7S R. 23E

Well	EPA ID#	Water S.G.	Top Perf. ft.	Max. Surface Pressure, psi	
RWU #17	UT2810-04346	1.015	5572	2064	43-047-15146
RWU #52	UT2811-04347	1.0071	5660	2116	43-047-15178
RWU #258	UT2812-04348	1.025	5507	2016	43-047-30458
RWU #261	UT2835-04402	1.015	5655	2095	43-047-32739
RWU #268	UT2832-04399	1.015	5573	2064	43-047-32980
RWU #283	UT2833-04400	1.0071	5583 (est.)	2087	43-047-32982
RWU #301	UT2834-04401	1.015	5090	1886	43-047-31682

Please note that water specific gravities relate to the injection station each well will be tied to. Details can be found in our 1997 UIC Annual Monitoring Report, which was previously submitted. If you need additional information, please call S. D. McPherson at (435) 781-4310.

Sincerely,

J. T. Conley

J. T. CONLEY
RED WASH ASSET TEAM LEADER

cc Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114-5801
Attn. Mr. Gil Hunt

U.S Department of the Interior
Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

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

5. Lease Designation and Serial No.
U-0116

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

7. If Unit or CA, Agreement Designation
RED WASH UNIT

8. Well Name and No.
RED WASH UNIT 52 14-18B

9. API Well No.
43-047-15178

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

11. County or Parish, State
UINTAH, UTAH

SUBMIT IN TRIPLICATE

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

2. Name of Operator
CHEVRON U.S.A. PRODUCTION COMPANY

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)
660' FSL & 592' FWL (SW SW) SECTION 18, T7S, R23E, SLBM

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

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

CHEVRON IS REQUESTING A TA STATUS ON THE ABOVE WELL. THIS WELL HAS POTENTIAL FUTURE USE IN RECONFIGURED PATTERN WATERFLOOD.

RECEIVED
DEC 19 1997
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Signed D C Jarner Title **COMPUTER SYSTEMS OPERATOR** Date **12/10/97**

(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**

Chevron

FEBRUARY 3, 1998

RWU #17 (41-20B), UT2810-04346
RWU #52 (14-18B), UT2811-04347
RWU #258 (34-22A), UT2812-04348
RED WASH UNIT
WVFU #35, UT2813-04351
WVFU #97, UT2814-04350
WONSITS VALLEY FEDERAL UNIT
UINTAH COUNTY, UTAH

RECEIVED
FEB 05 1998
DIV. OF OIL, GAS & MINING

Chevron U.S.A. Production Co.
Rocky Mountain Profit Center
11002 East 17500 South
Vernal, UT 84078-8526
(801) 781-4300

MR. CHUCK WILLIAMS
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, CO 80202-2466
8P2-W-GW

Dear Mr. Williams:

UIC Permits for the captioned wells will expire during March and April of 1997 if conversions to injection have not been completed. While much of the delay in converting these wells is due to capital budget constraints during 1997, we have also had some difficulty obtaining injection flowline right-of-ways. Although we plan to complete the conversions during the first half of 1998, right-of-way issues and a recent shortage of downhole equipment in our industry may delay the actual timing beyond the expiration dates.

For these reasons, Chevron respectfully requests a one year extension for the captioned UIC permits. EPA's prompt approval of this request will be greatly appreciated. Please contact Steven McPherson at (435) 781-4310 with any questions or additional information needs you may have.

Sincerely,

J. T. Conley

J. T. CONLEY
RED WASH ASSET TEAM LEADER

Enclosures

cc Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114-5801
Attn. Mr. Gil Hunt

U.S Department of the Interior
Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

Chevron

FEBRUARY 24, 1999

PERMIT EXTENSION REQUESTS
RWU #52 (14-18B), UT2811-04347
~~RWU #[illegible] (15B), UT2834-04401~~
RED WASH UNIT
UINTAH COUNTY, UTAH

43-047-15178

Chevron U.S.A. Production Co.
Rocky Mountain Basin
Red Wash Asset Team
11002 East 17500 South
Vernal, UT 84078-8526
(435) 781-4300

MR. CHUCK TINSLEY
EPA REGION VIII
999 18th STREET - SUITE 500
DENVER, CO 80202-2466
8P2-W-GW

Dear Mr. Tinsley:

We request approval of one year permit extensions for the captioned wells. While we remain convinced that both will be very effective Class II ER water injectors, the very poor oil industry business environment resulting from record low product prices has caused us to reconsider and defer certain projects. We plan to defer projects such as these conversions until business conditions improve.

Economic factors beyond our control have led to this request, and your approval of the extensions would be appreciated. If you have questions or would like to discuss this matter, please contact me at (435) 781-4301.

Sincerely,

J. T. CONLEY
RED WASH ASSET TEAM LEADER

cc

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114-5801
Attn. Mr. Gil Hunt

U.S Department of the Interior
Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

Approved by the
Utah Division of
Oil, Gas and Mining
Date: 3/2/99
By:

COPY SENT TO OPERATOR
Date: 3-2-99
Initials: CHD

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.: U-0116

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

7. If Unit or CA, Agreement Designation: RED WASH UNIT

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

8. Well Name and No.: RED WASH UNIT 52 14-18B

2. Name of Operator: CHEVRON U.S.A. PRODUCTION COMPANY

9. API Well No.: 43-047-15178

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 660' FSL & 592' FWL (SW SW) SECTION 18, T7S, R23E, SLBM

11. County or Parish, State: UINTAH, UTAH

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 TA STATUS FOR WELL	[ ] 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)

WE REQUEST A TA STATUS APPROVAL FOR THIS WELL.

WE HAVE BEEN PERMITTED TO CONVERT THIS WELL TO INJECTION.

RECEIVED
MAR 22 1999
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed D. C. BEAMAN DC Beaman Title COMPUTER SYSTEMS OPERATOR Date 3/18/1999

(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

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-JRB ✓
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)
Division of Oil, Gas & Mining
Minerals Adjudication Group U-932
File - Red Wash Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

UT931:TAThompson:tt:2/4/00

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

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.: U-0116

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

7. If Unit or CA, Agreement Designation: RED WASH UNIT

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

8. Well Name and No.: RED WASH UNIT 52 14-18B

2. Name of Operator: SHENANDOAH ENERGY, INC

9. API Well No.: 43-047-15178

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 660' FSL & 592' FWL (SW SW) SECTION 18, T7S, R23E, SLBM

11. County or Parish, State: UINTAH, UTAH

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 TA STATUS FOR WELL	[ ] 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)

WE REQUEST A TA STATUS APPROVAL FOR THIS WELL.

WE HAVE BEEN PERMITTED TO CONVERT THIS WELL TO INJECTION.

RECEIVED
APR 17 2000
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.
Signed D. C. BEAMAN *Doris Beaman* Title OFFICE MANAGER Date 04/13/00

(This space for Federal or State office use)

Approved by: Title Date

Conditions of approval, if any

~~The Extension for Shut-in Time issued 08-March-1999 EXPIRED 08-March-2000~~ **Accepted by the Utah Division of Oil, Gas & Mining**

In accordance with R649-3-36.3, provide the Division of Oil, Gas & Mining a Showing of Good Cause as to why this well should not be plugged. M. Hebertson

COPY SENT TO OPERATOR
Date: 4-20-00
Initials: CHD

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

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

5. Lease Designation and Serial No.: U-0116

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

7. If Unit or CA, Agreement Designation: Red Wash Unit

8. Well Name and No.: RWU #52 (14-18B)

9. API Well No.: 43-047-15178

10. Field and Pool, or Exploratory Area: Red Wash

11. County or Parish, State: UINTAH, UTAH

SUBMIT IN TRIPLICATE

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

2. Name of Operator
SHENANDOAH ENERGY INC.

3. Address and Telephone No.
11002 E. 17500 S. VERNAL, UT 84078-8526
Contact : jpennell@shenandoahenergy.com
435-790-5469 Fax 435-828-5044

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL, 592' FWL, SWSW Sec. 18, T7S, R23E SLB&M

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

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

Please be advised that we intend to recomplete this well in the Wasatch as follows:

1) MIRU service rig. NDWH and release "T" anchor. NU BOP's. POOH w/2-7/8" tubing.
2) Drill out float collar @ 5730'. Circ. hole clean. Clean out 7" casing shoe from 5730' to 5800'. Circ. clean.
3) Clean out open hole from 5800' to TD @ 6359'. Stabilize w/8.8# - 9.2# mud.
4) RU and run open hole logs, density at minimum
5) Set packer @ 6300' and test interval 6310' – 6330'.
6) Swab test. If production and shows warrant, run 4-1/2" liner w/liner hanger @ +/- 5600'.
7) Cement liner, run cased hole logs, perforate and stimulate as needed.

3 - BLM, 2- Utah OG&M, 1 – Denver, 1 – file Word file-server

RECEIVED ~~CONFIDENTIAL~~
SEP 24 2001
DIVISION OF
OIL, GAS AND MINING

COPY SENT TO OPERATOR
Date: 10-11-01
Initials: CHD

14. I hereby certify that the foregoing is true and correct.
Signed: Jim Simonton JP
Title: Completion Supervisor
Date: 8-10-01

(This space for Federal or State office use)

Approved by:
Title: Federal Approval Of This Action Is Necessary
Date:

Conditions of approval, if any

Accepted by the Utah Division of Oil, Gas and Mining
Date: 10/11/01
By: [illegible]

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 Instructions on Reverse Side

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
UTU 0116

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
8920007610

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
RWU 52 14-18B

2. Name of Operator
SHENANDOAH ENERGY INC.

Contact: ANN PETRIK
E-Mail: ann.petrik@questar.com

9. API Well No.
43-047-15178

3a. Address
11002 EAST 17500 SOUTH
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 435.781.4306
Fx: 435.781.4329

10. Field and Pool, or Exploratory
RED WASH

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 18 T7S R23E SWSW 660FSL 592FWL

11. County or Parish, and State
UINTAH COUNTY, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☒ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

WE REQUEST A TA STATUS APPROVAL FOR THIS WELL.

WE BELIEVE A RETURN TO INJECTION COULD BE JUSTIFIED IN THE FUTURE.

RECEIVED
SEP 30 2002
DIVISION OF
OIL, GAS AND MINING

10-15-02
CHD

INCIDENT #RA02096

THIS SUNDRY IS BEING RETURNED; INSUFFICIENT DATA WAS SUBMITTED TO APPROVE THE REQUESTED ACTION.

The well has been nonactive or nonproductive for *10 years 5 months*. In accordance with R649-3-36, a sundry notice shall be filed indicating the reasons and length of time for the well shut-in or temporary abandonment and a demonstration of the well's integrity; evidence that the well is not a risk to public health and safety or the environment.

October 11, 2002
Utah Division of Oil, Gas and Mining

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #14615 verified by the BLM Well Information System
For SHENANDOAH ENERGY INC., sent to the Vernal

Name *(Printed/Typed)* ANN PETRIK — Title ADMINISTRATIVE CONTACT

Signature (Electronic Submission) — Date 09/27/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

~~CONFIDENTIAL~~

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

5. Lease Designation and Serial No.: U-0116

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

7. If Unit or CA, Agreement Designation: Red Wash Unit

8. Well Name and No.: RWU 14-18B (#52)

9. API Well No.: 43-047-15178

10. Field and Pool, or Exploratory Area: Red Wash

11. County or Parish, State: Uintah County, Utah

SUBMIT IN TRIPLICATE

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

2. Name of Operator: SHENANDOAH ENERGY INC.

3. Address and Telephone No.: 11002 E. 17500 S. VERNAL, UT 84078-8526 Jane Pennell (435) 828-3038

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 660' FSL, 592' FWL, SWSW Sec. 18, T7S, R23E SLB&M

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

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

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

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please be advised that we wish to rescind the NOI to recomplete dated 8-10-~~10~~ 01 because the Wasatch test is not economically feasible. We intend to plug & abandon this well as follows:

1) MIRU well service unit. ND wellhead & NU BOP's.
2) Circulate hot water to surface to clean up oil. POOH w/tubing.
3) RIH w/CIBP & set @ 5630'. Dump bail 35' cement on top of BP.
4) RIH w/CIBP & set @ 5080'. Dump bail 35' cement on top of BP.
5) Spot balanced plugs from 350' – 500'.
5) Perforate @ 100' w/4 spf. Establish circulation and pump good cement to surface.
6) Cut off wellhead & insure cement to surface. Install dry hole marker & rehab per BLM specifications.
Proposed P&A wellbore attached.

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3 - BLM, 2- Utah OG&M, 1 – Denver, 1 – file, Word File – server

COPY SENT TO OPERATOR
Date: 12-3-02
Initials: CHD

14. I hereby certify that the foregoing is true and correct.
Signed: Jim Simonton Title: Completion Supervisor Date: 11-20-02

(This space for Federal or State office use)

Approved by: Accepted by the Utah Division of Oil, Gas and Mining Title: Federal Approval Of This Action Is Necessary Date:

Conditions of approval, if any

Date: 12/3/2002
By: [signature]

* Recommend plug across top of Green River (±3177') and Above TOC in annulus (±3750') [±3100'-3200']

FIELD: Red Wash | GL: 5465 ' KBE: 5477 ' | Spud Date: 10-31-56 Last Date Worked or 8-26-91

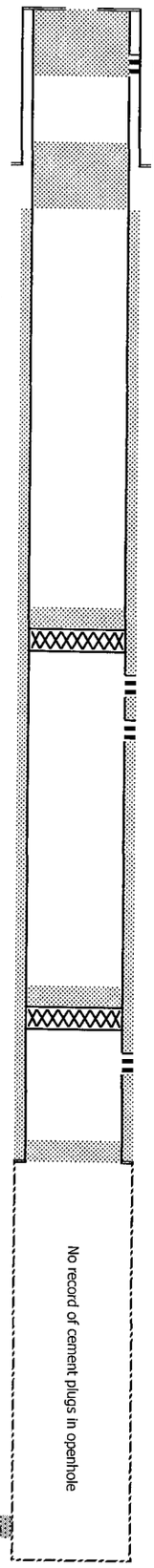
Well: RWU #14-18B (#52) | TD: 6359 ' PBTD: 5730 ' | Current Well Status: **Shut-in Oil Well**

Location:
SW¼SW¼ S18-T7S-R23E
Uintah County, Utah

API# 43-047-15178

Reason for Pull/Workover:

Proposed P&A Wellbore



Surface casing
Size 10 3/4"
Weight 40½#
Grade J-55
Cmtd w/ 275 sxs
Set @ 425'
Hole size 15"

Perf @ 100' w/4 spf

Balanced plug - 350' - 500'

TOC - unknown. No CBL run

EXCLUDED PERFS

OPEN PERFS

CIBP @ 5080'

5104'-5130' **Hb / Hb_{50}**

5134'-5148' **Hc**

CIBP @ 5630'

5660'-5688' **Jd / Je**

Production casing
Size 7", 23#, J-55/N-80
Cmtd w/ 435 sxs
Set @ 5800'

Orig PBTD @ 5730 '
Float Collar @ 5730 '

DST @ 480 Mcfpd; 250 BWPD w/ condensate

6210'-6230' **Wasatch**

TD @ 6359 '

Hole size 9"

Tubing Landing Detail:

Description	Size	Footage	Depth
	2 7/8		
EOT			0.00

Tubing Information
Condition:
New: ____ Used: ____ Rerun: ____
Grade: J-55
Weight (#/ft): 6.5

Sucker Rod Detail:

Size	Rods	Rod Type

Rod Information
Condition:
New: ____ USED ____ RERUN ____
Grade: ____
Manufacturer: ____

Pump Information:
API Designation Unknown
Example:
Pump SN#: ____ Original Run Date: 8/28/91
Rerun: ____ New Run: X Rebuild: ____

ESP Well
Cable Size: ____
Pump Intake @ ____
End of Pump @ ____

Flowing Well
"R" NIPPLE ____
PKR @ ____
EOT @ ____

Wellhead Detail:
7 1/16" 2000# ____
7 1/16" 3000# ____
7 1/16" 5000# ____
Other: ____

Tbg Hanger Type: Donut: ____ Bonnet: X

SUMMARY

Wellwork: 08/28/1991

Pump stuck, backoff rods at pump and lay down same. Pump still stuck in tubing but all rods should be recovered.

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Prepared By: J. Pennell Date: 11-4-02

Wellbore Diagram

API Well No: 43-047-15178-00-00 **Permit No:** UIC-186.1 **Well Name/No:** RWU 52 (14-18B)

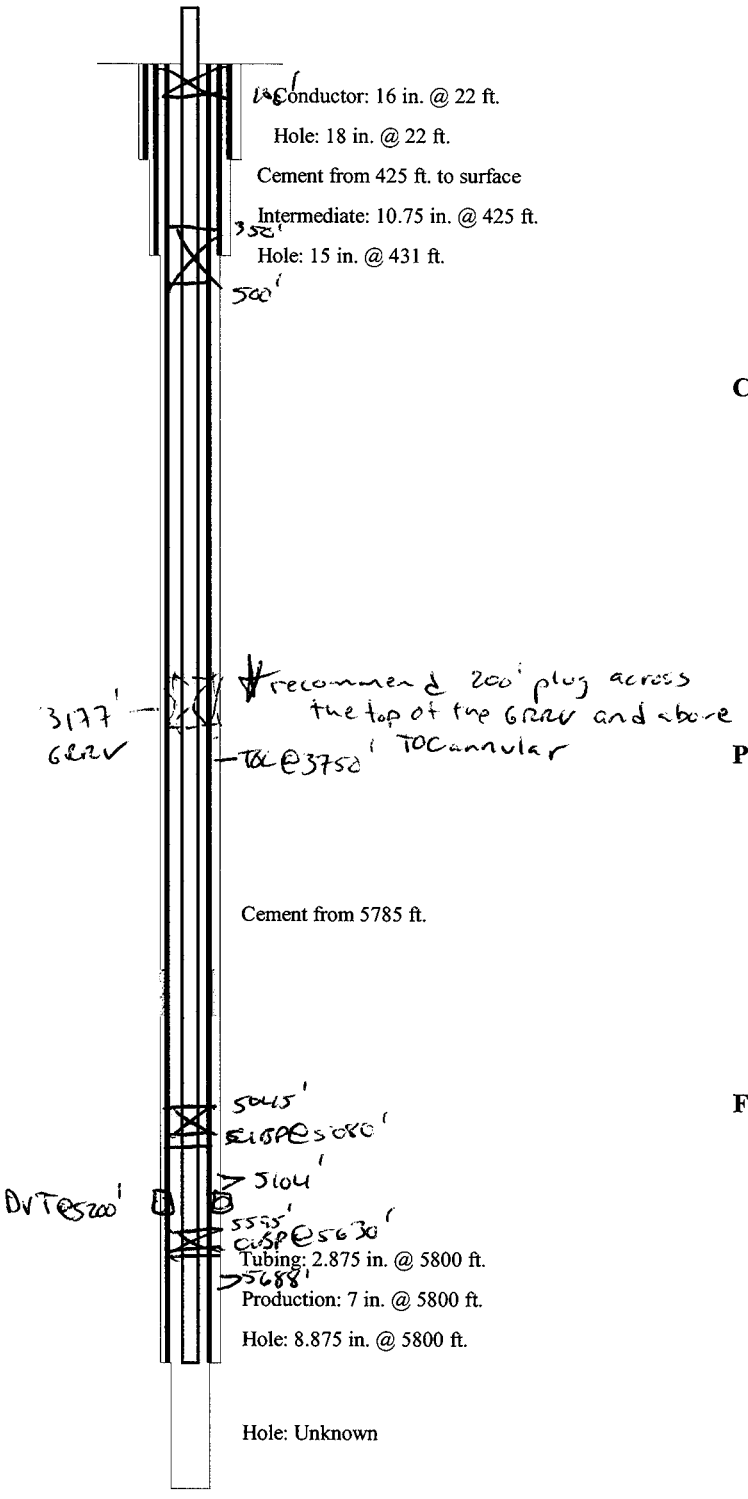
Company Name: SHENANDOAH ENERGY INC

Location: Sec: 18 T: 7S R: 23E Spot: SWSW

Coordinates: X: 638210 Y: 4451477

Field Name: RED WASH

County Name: UINTAH



TD: 6359 **TVD:** **PBTD:**

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	22	18		
COND	22	16		
HOL2	431	15		
I1	425	10.75	40.5	425
HOL3	5800	8.875		
PROD	5800	7	23	4787
PROD	5800	7	23	1028
T1	5800	2.875		

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
I1	425	0	UK	275
PROD	5785			

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
5104	5688			

Formation Information

Formation	Depth	Formation	Depth
GRRV	3177		

BMSGW ± 4500' → 5500'

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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	N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526
Phone: (435) 781-4341	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 70 (23-22A)	22	070S	220E	4304715192	5670	Federal	OW	P	
RWU 50 (14-23A)	23	070S	220E	4304715176	5670	Federal	OW	P	
RWU 53 (41-25A)	25	070S	220E	4304715179	5670	Federal	OW	TA	
RWU 74 (12-13B)	13	070S	230E	4304715196	5670	Federal	GW	P	
RWU 77 (21-13B)	13	070S	230E	4304715199	5670	Federal	OW	P	
RWU 52 (14-18B)	18	070S	230E	4304715178	5670	Federal	OW	TA	
RWU 66 (34-18B)	18	070S	230E	4304715189	5670	Federal	OW	P	
RWU 63 (21-22B)	22	070S	230E	4304715186	5670	Federal	GW	TA	
RWU 67 (42-22B)	22	070S	230E	4304715190	5670	Federal	OW	TA	
RWU 8 (32-22B)	22	070S	230E	4304715139	5670	Federal	OW	P	
RWU 75 (21-26B)	26	070S	230E	4304715197	5670	Federal	OW	TA	
RWU 64 (32-27B)	27	070S	230E	4304715187	5670	Federal	OW	TA	
RWU 69 (21-27B)	27	070S	230E	4304715191	5670	Federal	OW	TA	
RWU 72 (23-27B)	27	070S	230E	4304715194	5670	Federal	OW	TA	
RWU 79 (12-27B)	27	070S	230E	4304715201	5670	Federal	OW	TA	
RWU 80 (14-27B)	27	070S	230E	4304715202	5670	Federal	OW	P	
RWU 78 (32-28B)	28	070S	230E	4304715200	5670	Federal	OW	P	
RWU 57 (12-18C)	18	070S	240E	4304715183	5670	Federal	OW	P	
RWU 71 (21-18C)	18	070S	240E	4304715193	5670	Federal	OW	P	
RWU 76 (32-18C)	18	070S	240E	4304715198	5670	Federal	GW	S	

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

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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)
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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)

RECEIVED
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

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.: **UTU 0166**

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

7. If Unit or CA, Agreement Designation: **Redwash Unit**

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

8. Well Name and No.: **RWU 14-18B**

2. Name of Operator: **QEP UINTA BASIN, INC.**

9. API Well No.: **43-047-15178**

3. Address and Telephone No.: **11002 E. 17500 S. VERNAL, UT 84078-8526**
Contact: Lucius McGillivray (435) 781-4341
lucius.mcgillivray@questar.com

10. Field and Pool, or Exploratory Area: **Redwash**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FSL, 592' FWL, SWSW, SECTION 18, T7S, R23E, SLBM

11. County or Parish, State: **UINTAH COUNTY, UTAH**

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

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

Questar requests approval to plug and abandon this well as follows:

1. **Set cement retainer at 5080'**
2. **Stab into retainer and squeeze 35 sx cement, unstab and dump 35 sx of cement on top of retainer**
3. **Fill hole with minimum 9 ppg fluid.**
4. **Perforate the production casing @ 3194'**
5. **Balance plug from 3194' - 2984' inside production casing and in production casing x open hole annulus.**
6. **Perforate production casing @ 450', cement from 450' to surface in production casing and in production casing x surface casing annulus.**
7. **Cut off wellhead, install dryhole marker**

Work will start after Questar receives BLM and UDOGM approval

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AUG 1 3 2007
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Signed: Lucius McGillivray Title: **Associate Production Engineer** Date: 8-7-07

(This space for Federal or State office use)

Approved by: _____ Title: _____

Conditions of approval, if any

Accepted by the Utah Division of Oil, Gas and Mining
8/21/07

Federal Approval Of This Action Is Necessary

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

*See instruction on Reverse Side

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

5. Lease Serial No.
UTU 0116

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

7. If Unit or CA/Agreement, Name and/or No.
Redwash

8. Well Name and No.
RW 14-18B

9. API Well No.
43-047-15178

10. Field and Pool, or Exploratory Area
Redwash

11. County or Parish, State
Uintah

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator **Questar Exploration and Production Inc.**

3a. Address
11002 E. 17500 S. VERNAL, UT 84078-8526

3b. Phone No. *(include area code)*
435-781-4319

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660' FSL, 592' FWL, SWSW, SECTION 18, T7S, R23E, SLBM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☑ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Questar requests approval to recomplete this well as follows:

MIRU. ND WH and NU BOP
RU wireline and run CBL.
Depending on CBL results,
if no cement above 2800'
RU wireline and perforate @ >3206' to squeeze cement
squeeze 100 sacks through perfs between casing and hole
WOC, run CBL
RU wireline and perforate 3100'-06' with 4 JSPF with 90° phasing
Acidize with 500 gal. of 15% HCL w/ additives
Swab test
The well will be placed on production or plugged and abandoned based on the swab test results.

Work will start after Questar receives BLM and UDOGM approval

COPY SENT TO OPERATOR
Date: 1-24-2008
Initials: KS

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Lucius McGillivray lucius.mcgillivray@questar.com

Title **Associate Petroleum Engineer**

Signature Lucius McGillivray

Date 1-8-08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Office

Accepted by the Utah Division of Oil, Gas and Mining
1/22/08

Federal Approval Of This Action is Necessary

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

RECEIVED
JAN 18 2008
DIV. OF OIL, GAS & MINING

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

5. Lease Serial No.
UTU 0116

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

7. If Unit or CA/Agreement, Name and/or No.
Redwash

8. Well Name and No.
RW 14-18B

9. API Well No.
43-047-15178

10. Field and Pool, or Exploratory Area
Redwash

11. County or Parish, State
Uintah

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator **Questar Exploration and Production Inc.**

3a. Address
11002 E. 17500 S. VERNAL, UT 84078-8526

3b. Phone No. *(include area code)*
435-781-4319

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
SWSW, SECTION 18, T7S, R23E, SLBM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☑ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Questar Exploration and Production reports the following work to plug and abandon was finished on March 2, 2009 as follows:

1. **Set CICR @ 5060'**
2. **Pump 70 sacks under and 35 sacks on top**
3. **Perforate @ 3195', good rate into perfs**
4. **Perforate @ 475'**
5. **Set CICR @ 3120', pump 50 sacks under and 20 on top**
6. **Pump 170 sacks down production casing through annulus to surface**
7. **Cut off wellhead**
8. **Weld on plate**

BLM on location was Bill Owens.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Lucius McGillivray lucius.mcgillivray@questar.com

Title **Associate Petroleum Engineer**

Signature Lucius McGillivray

Date 3-3-09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

RECEIVED
MAR 10 2009
DIV. OF OIL, GAS & MINING

API Well No: 43047151780000 Received: 11/9/2010

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

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
RW 14-18B

2. TYPE OF WORK
DRILL NEW WELL ○ REENTER P&A WELL ◉ DEEPEN WELL ○

3. FIELD OR WILDCAT
RED WASH

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME
RED WASH

6. NAME OF OPERATOR
QEP ENERGY COMPANY

7. OPERATOR PHONE
303 308-3068

8. ADDRESS OF OPERATOR
11002 East 17500 South, Vernal, Ut, 84078

9. OPERATOR E-MAIL
debbie.stanberry@questar.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU0116

11. MINERAL OWNERSHIP
FEDERAL ◉ INDIAN ○ STATE ○ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ◉ INDIAN ○ STATE ○ FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ○ (Submit Commingling Application) NO ◉

19. SLANT
VERTICAL ◉ DIRECTIONAL ○ HORIZONTAL ○

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20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	659 FSL 592 FWL	SWSW	18	7.0 S	23.0 E	S
Top of Uppermost Producing Zone	659 FSL 592 FWL	SWSW	18	7.0 S	23.0 E	S
At Total Depth	659 FSL 592 FWL	SWSW	18	7.0 S	23.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
592

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
1250

26. PROPOSED DEPTH
MD: 11652 TVD: 11652

27. ELEVATION - GROUND LEVEL
5465

28. BOND NUMBER
ESB000024

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
A36125 / 49-2153

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**
- ☑ **COMPLETE DRILLING PLAN**
- ☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**
- ☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
- ☐ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**
- ☑ **TOPOGRAPHICAL MAP**

NAME Jan Nelson	**TITLE** Permit Agent	**PHONE** 435 781-4331
SIGNATURE	**DATE** 11/09/2010	**EMAIL** jan.nelson@questar.com

API NUMBER ASSIGNED
43047151780000

APPROVAL

Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	15	10.75	0	425		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 ST&C	425	40.5			

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Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
I1	9	7	0	5800		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	5800	23.0			

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Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	6.125	4.5	0	11652		
Pipe	**Grade**	**Length**	**Weight**			
	Grade N-80 LT&C	11652	13.5			

CONFIDENTIAL

'APIWellNo:43047151780000'

QEP Energy Company
RW 14-18B Drilling Prog
API#: 43-047-15178
Summarized Re-Entry Procedure

1. Excavate around Dry-Hole Marker, expose P&A well.
2. Slip-on and weld 9-5/8" conductor back to surface.
3. MIRU Pulling unit.
4. Wash over and remove 7" casing to approximately 450'.
5. RIH and screw on new 7" casing back to surface.
6. Install wellhead and pressure test to 3,000 psi.
7. Fill backside of 7" casing with cement back to surface.
8. NU BOP. RIH, drill out P&A plugs to original PBTD.
9. Pressure test previously squeezed perfs. Remediate if necessary.
10. RDMO with pulling unit.
11. MIRU drilling rig.
12. NU and test BOPE.
13. Drill out shoe and down to 11,652' TVD with a 6 1/8" bit.
14. If hole conditions permit, Log.
15. Run and cement 4 ½" casing.
16. ND BOPE.
17. RDMOL.

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ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 14-18B (API#: 43-047-15178)

RE-ENTRY DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

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1. Formation Tops

The estimated top of important geologic markers are as follows:

Formation	Depth, TVD & MD
Green River	3,177'
Mahogany	3,944'
Original TD	6,359'
Wasatch	6,602'
Mesaverde	9,362'
Sego	11,552'
TD	11,652'

2. Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones

The estimated depths at which the top of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

Substance	Formation	Depth, TVD & MD
Gas	Wasatch	6,602'
Gas	Mesaverde	9,362'
Gas	Sego	11,552'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125

(which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment

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A. 7 1/16" or 11" as available 5000 psi double ram with blind rams and pipe rams, annular preventer and drilling spool or BOP with 2 side outlets.

B. All BOP connection subject to pressure shall be flanged, welded or clamped.

C. Kill line (2" min), 2 choke line valves (3" min), choke line (3" min), 2 kill line valves (2" min) and a check valve, 2 chokes with one remotely controlled from rig floor and a pressure gauge on choke manifold.

D. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.

E. IBOP or float sub available.

F. Fill up line must be installed above the uppermost preventer.

G. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc…, for a 5M system and individual components shall be operable as designed.

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.	Expected MW(ppg)
15"	10 ¾"	sfc	425'	40.5#	J-55	STC	Existing	N/A
9"	7"	sfc	5,800'	23#	J-55	LTC	Existing	N/A
6 1/8"	4 1/2"	sfc	11,652'	13.5#	N-80	LTC	New	8.8 – 9.6

Casing Strengths:				Collapse	Burst	Tensile (min)
10 ¾"	40.5#	J-55	STC	1,580 psi	3,130 psi	420,000 lb.
7"	23#	J-55	LTC	3,270 psi	4,360 psi	313,000 lb.
4 1/2"	13.5#	N-80	LTC	8,540 psi	9,020 psi	270,000 lb.

Casing Design Factors
Burst: 1.4
Collapse: 1.3
Tension: 1.4

Maximum anticipated mud weight: 11 ppg (RW 34-34AD)
Anticipated Frac Pressure: 4,500 psi

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5. Cementing Program

4-1/2" Production Casing: sfc – 11,652'

Lead Slurry: 3,000 – 5,800'. 130 sks (310 ft^3) Halliburton Light Premium, 0.2% WG-17 (Gelling Agent), 0.2% CFR-3 (Dispersant), 0.2% HR-5 (Retarder) Slurry Weight 11.5 lb/gal, 2.57 ft^3/sk, 0% excess

Tail Slurry: 5,800' – 11,652'. 410 sks (690 ft^3) 50/50 Poz Premium Cement, 3 lb/sk Silicalite (Light Weight Additive), 0.2% Super CBL (Expander), 0.3% HR-5 (Retarder), 0.5% Halad-344 (Fluid Loss Control), 20% SSA-1 (Fluid Loss Control), 0.3% CFR-3 (Dispersant), Slurry Weight 13.5 lb/gal, 1.70 ft^3/sk, 25% excess over open hole portion

*Final cement volumes to be calculated from caliper log and will attempt to pump cement to 3,000'.

6. Auxiliary Equipment

A. Kelly Cock – yes

B. Float at the bit – yes

C. Monitoring equipment on the mud system – PVT/Flow Show

D. Full opening safety valve on the rig floor – yes

E. Drilling below the 7" casing will be done with water based mud. Maximum anticipated mud weight is 11 ppg.

'APIWellNo:43047151780000'

F. No minimum quantity of weight material will be required to be kept on location.

G. Gas detector will be used from intermediate casing depth to TD.

7. Testing, logging and coring program

A. Cores – none.

B. DST – none anticipated

C. Logging – Mud logging – Surface Casing to TD
GR-SP-Induction, Neutron Density.

D. Formation and Completion Interval:
– Stimulation will be designed for the particular area of interest as encountered.

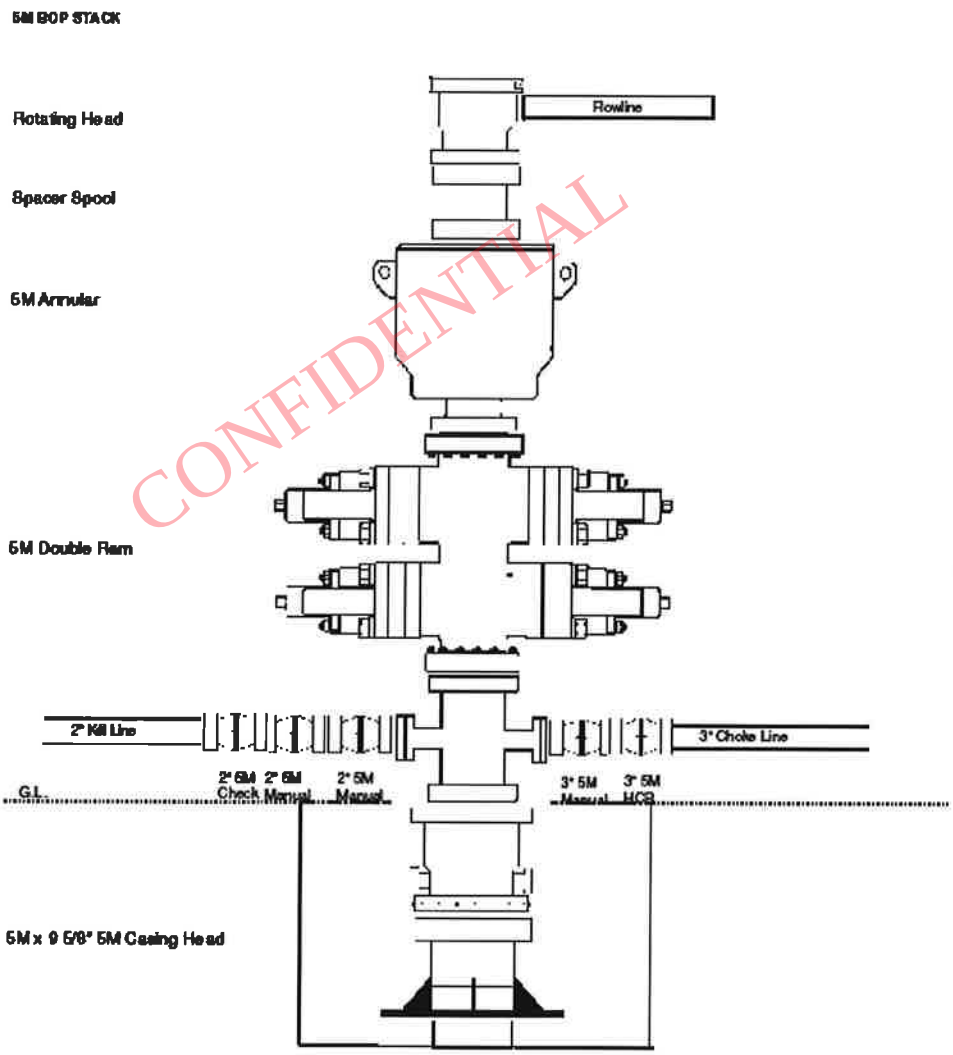
CONFIDENTIAL

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. Maximum anticipated bottom hole pressure equals approximately 6,664 psi. Maximum anticipated bottom hole temperature is 210° F.

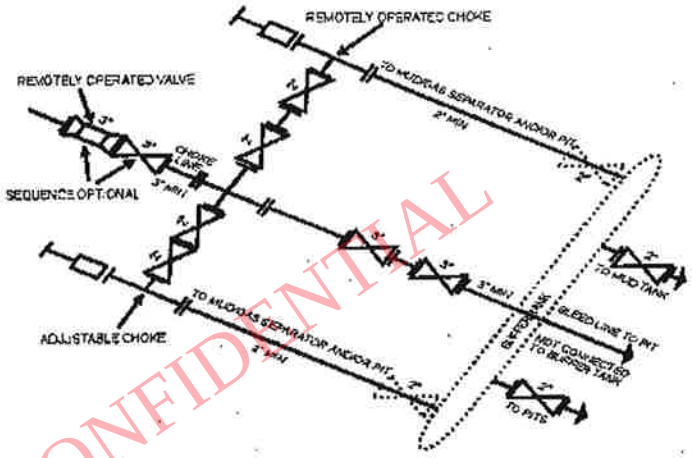
H2S has not been encountered in other wells drilled to similar depths in the general area.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 14-18B (API#: 43-047-15178)



CONFIDENTIAL

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 14-18B (API#: 43-047-15178)



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5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

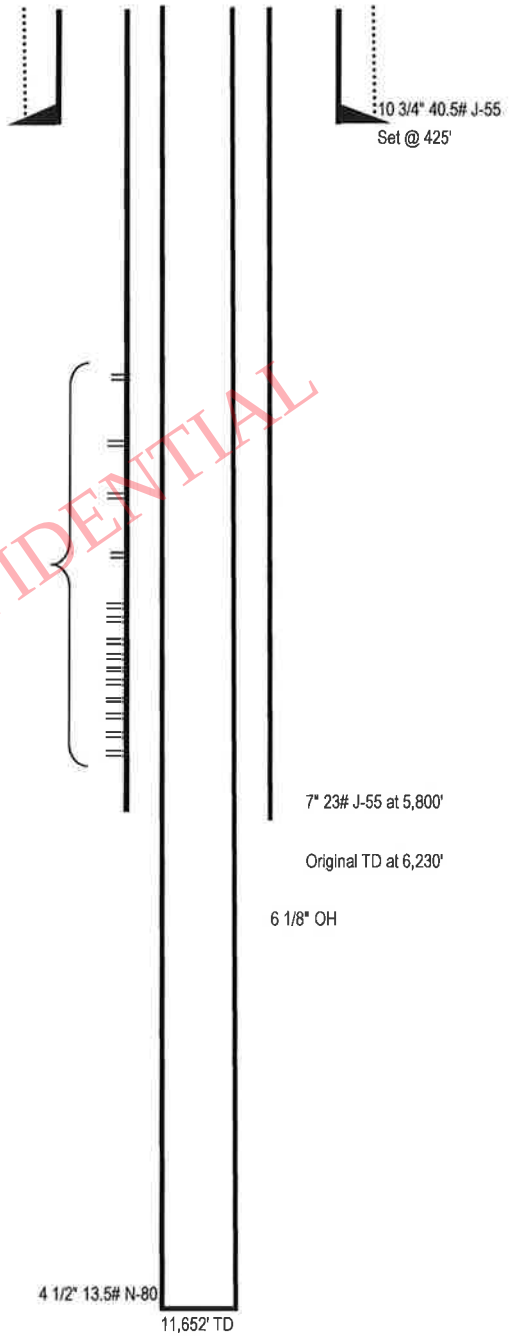
Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to these situations.

[54 FR 39528, Sept. 27, 1989]

'APIWellNo:43047151780000'

Updated MPG 09-23-2010

RW 14-18B
API# 43-047-15178
SWSW Sec 18 T7S R23E
Uintah County, Utah
KB
GL 5,465'
Currently P&A'd



CONFIDENTIAL

API Well No: 43047151780000

T7S, R23E, S.L.B.&M.

R 22 E | R 23 E

S89°57'W – 5138.10' (G.L.O.)

N00°00'E – 2640.00' (G.L.O.)

N00°08'38"W – 2640.00' (Meas.)

N00°03'31"W – 2639.62' (Meas.)

N00°09'09"W – 2639.32' (Meas.)

S89°53'41"W – 2504.75' (Meas.)

S89°53'04"W – 2639.79' (Meas.)

Lot 1

Lot 2

Lot 3

Lot 4

18

1937 Brass Cap 0.8' High, Pile of Stones

1937 Brass Cap 1.0' High, Scattered Pile of Stones

Brass Cap

Brass Cap

Brass Cap

Brass Cap

592'

659'

RW #14–18B (Re–Entry)

Elev. Ungraded Ground = 5465'

QEP ENERGY COMPANY

Well location, RW #14–18B (Re–Entry), located as shown in Lot 4 of Section 18, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

N

1000' 500' 0' 1000'

SCALE

CONFIDENTIAL

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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161318
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°12'14.67" (40.204075)
LONGITUDE = 109°22'36.33" (109.376758)
(NAD 27)
LATITUDE = 40°12'14.80" (40.204111)
LONGITUDE = 109°22'33.87" (109.376075)

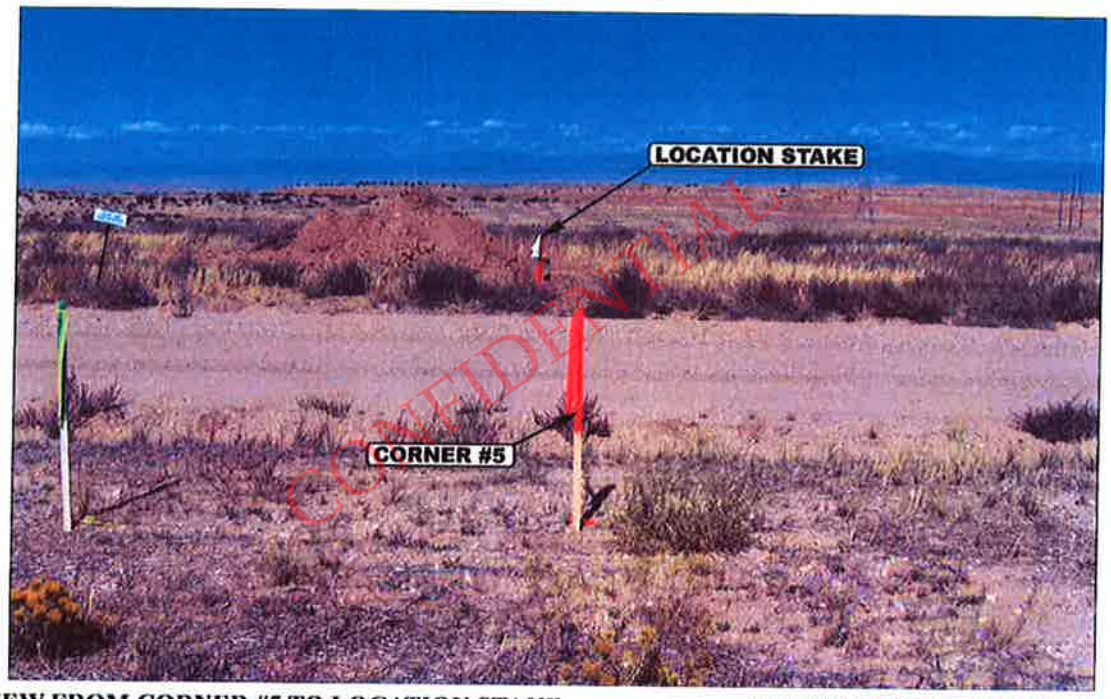
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789–1017

SCALE 1" = 1000'	DATE SURVEYED: 09–13–10	DATE DRAWN: 09–15–10
PARTY D.K. J.M. C.C.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QEP ENERGY COMPANY	

QEP ENERGY COMPANY

RW #14-18B (RE-ENTRY)

LOCATED IN UINTAH COUNTY, UTAH
SECTION 18, T7S, R23E, S.L.B.&M.



CONFIDENTIAL

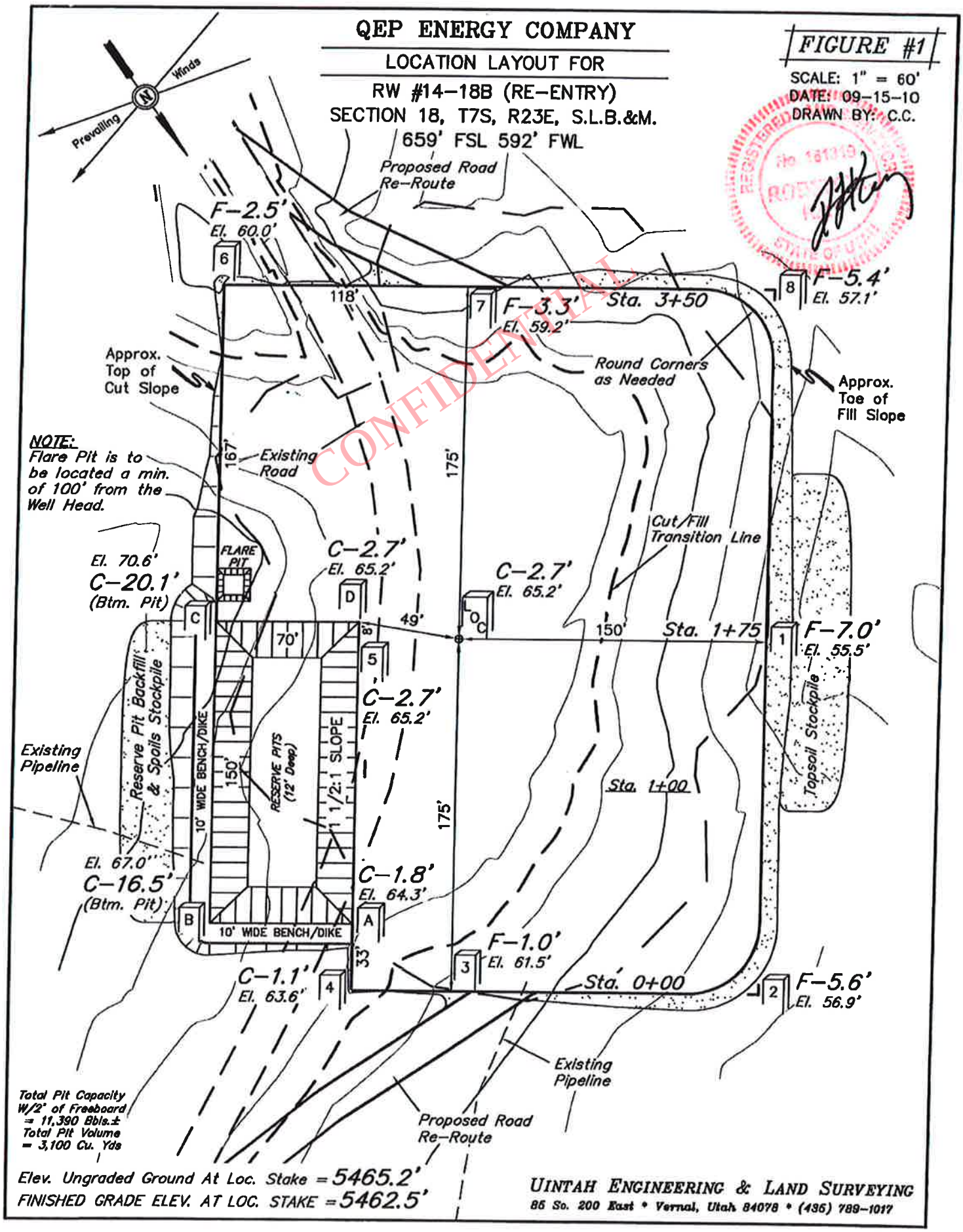
PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: NORTHWESTERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: SOUTHWESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS	09 MONTH	16 DAY	10 YEAR	PHOTO
TAKEN BY: D.K.	DRAWN BY: J.J.	REVISED: 00-00-00		

'APIWellNo:43047151780000'



'APIWellNo:43047151780000'

1" = 40'
X-Section Scale
1" = 100'
DATE: 09-15-10
DRAWN BY: C.C.

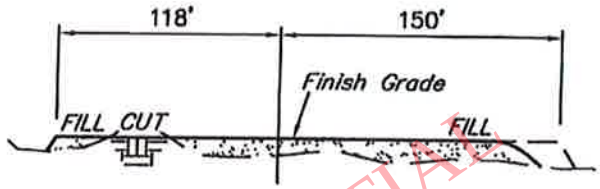
QEP ENERGY COMPANY

TYPICAL CROSS SECTION FOR

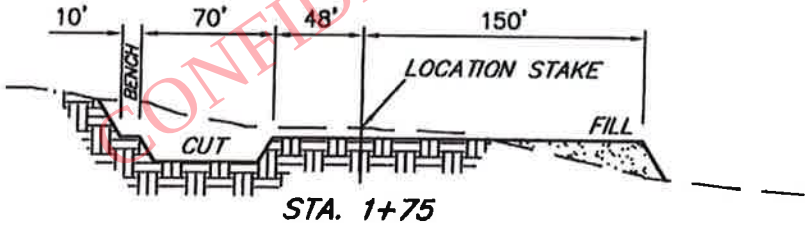
RW #14-18B (RE-ENTRY)
SECTION 18, T7S, R23E, S.L.B.&M.
659' FSL 592' FWL

FIGURE #2

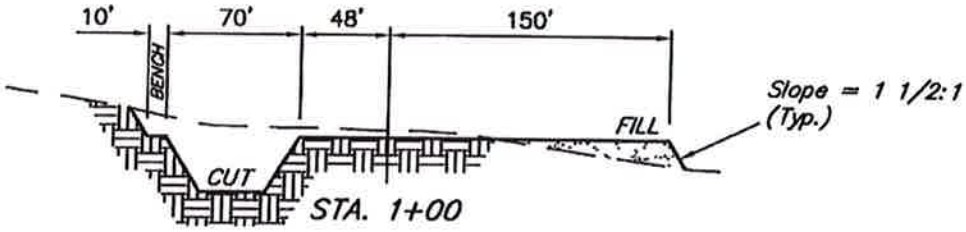
SCALE: 1" = 60'
DATE: 09-15-10
DRAWN BY: C.C.



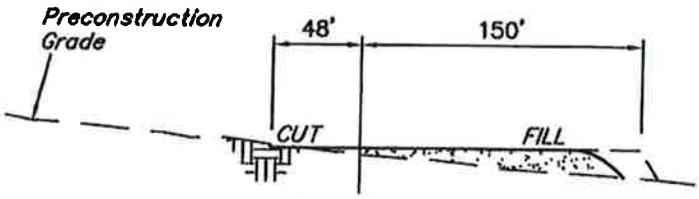
STA. 3+50



STA. 1+75



STA. 1+00



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.674 ACRES
ACCESS ROAD DISTURBANCE = ± 0.201 ACRES
PIPELINE DISTURBANCE = ± 3.517 ACRES
TOTAL = ± 6.392 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping (New Construction Only)	=	1,960 Cu. Yds.
Remaining Location	=	7,220 Cu. Yds.
TOTAL CUT	=	9,180 CU.YDS.
FILL	=	5,670 CU.YDS.

EXCESS MATERIAL	=	3,510 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,510 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

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85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

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QEP ENERGY COMPANY

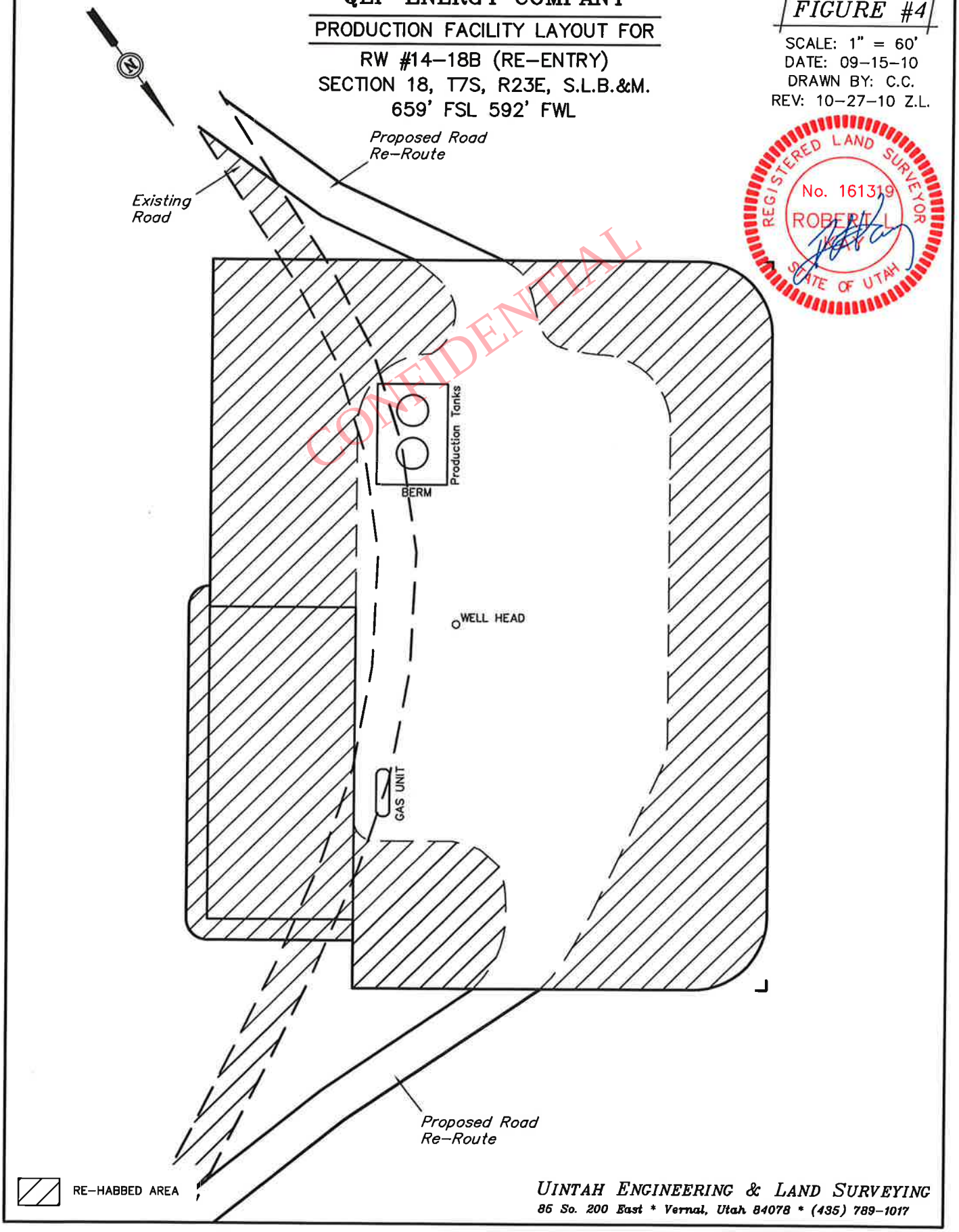
PRODUCTION FACILITY LAYOUT FOR

RW #14-18B (RE-ENTRY)
SECTION 18, T7S, R23E, S.L.B.&M.
659' FSL 592' FWL

FIGURE #4

SCALE: 1" = 60'
DATE: 09-15-10
DRAWN BY: C.C.
REV: 10-27-10 Z.L.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



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'APIWellNo:43047151780000'

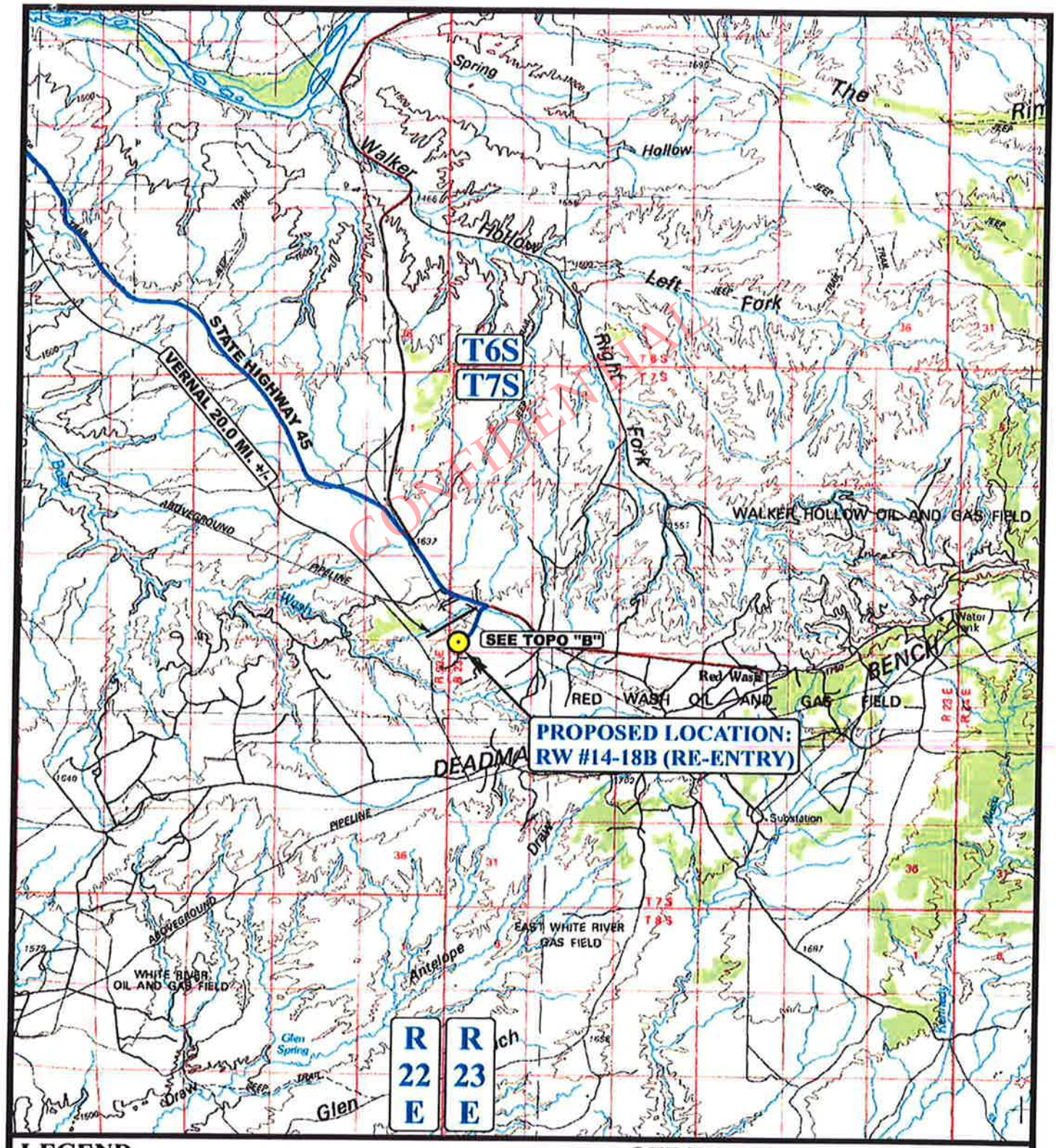
QEP ENERGY COMPANY
RW #14-18B (RE-ENTRY)
SECTION 18, T7S, R23E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 16.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 182' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 20.5 MILES.

CONFIDENTIAL

'APIWellNo:43047151780000'



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LEGEND:

PROPOSED LOCATION

N

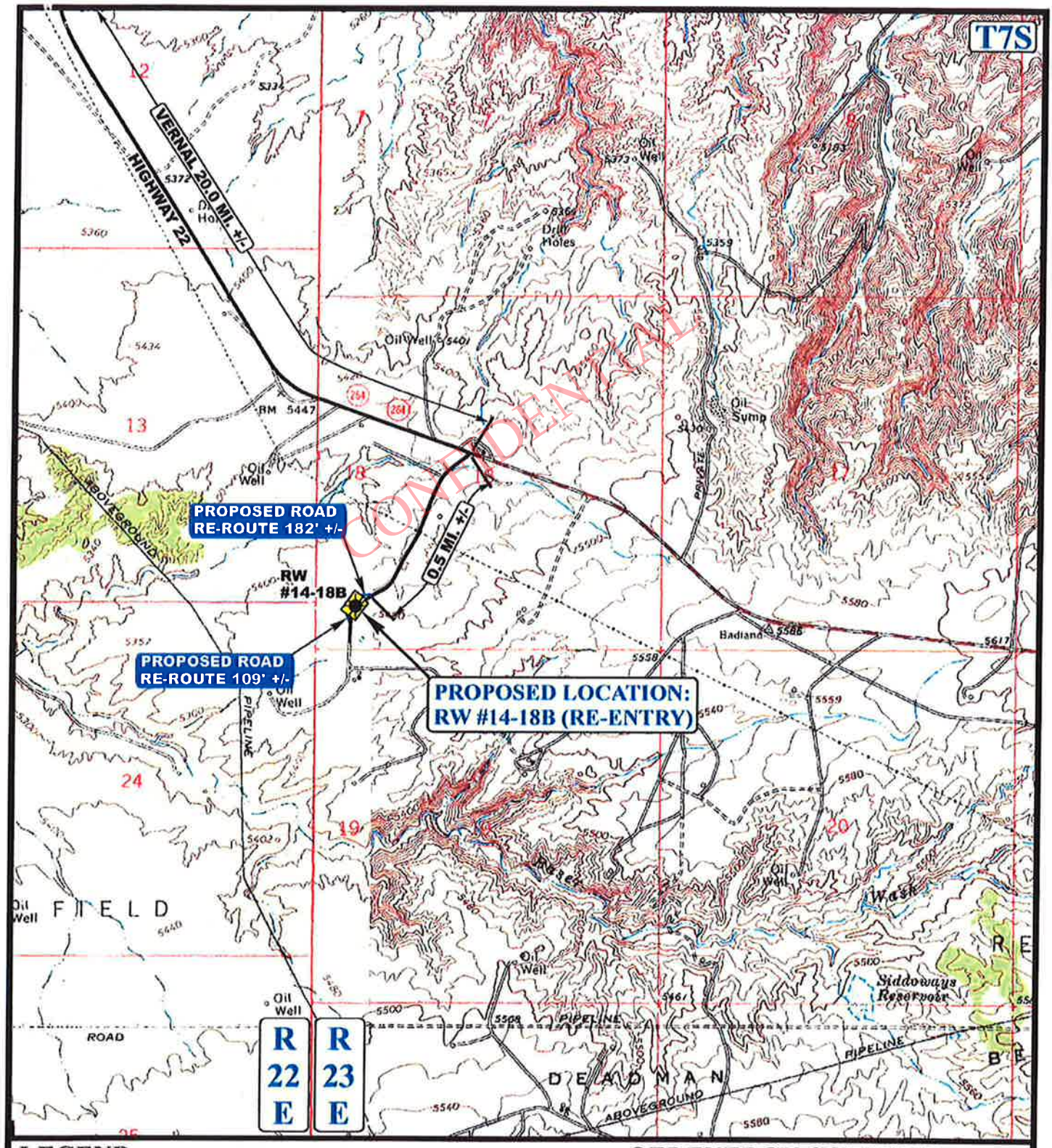
QEP ENERGY COMPANY

RW #14-18B (RE-ENTRY)
SECTION 18, T7S, R23E, S.L.B.&M.
659' FSL 592' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	09 MONTH	16 DAY	10 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: J.J.	REVISED: 00-00-00		

'APIWellNo:43047151780000'



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

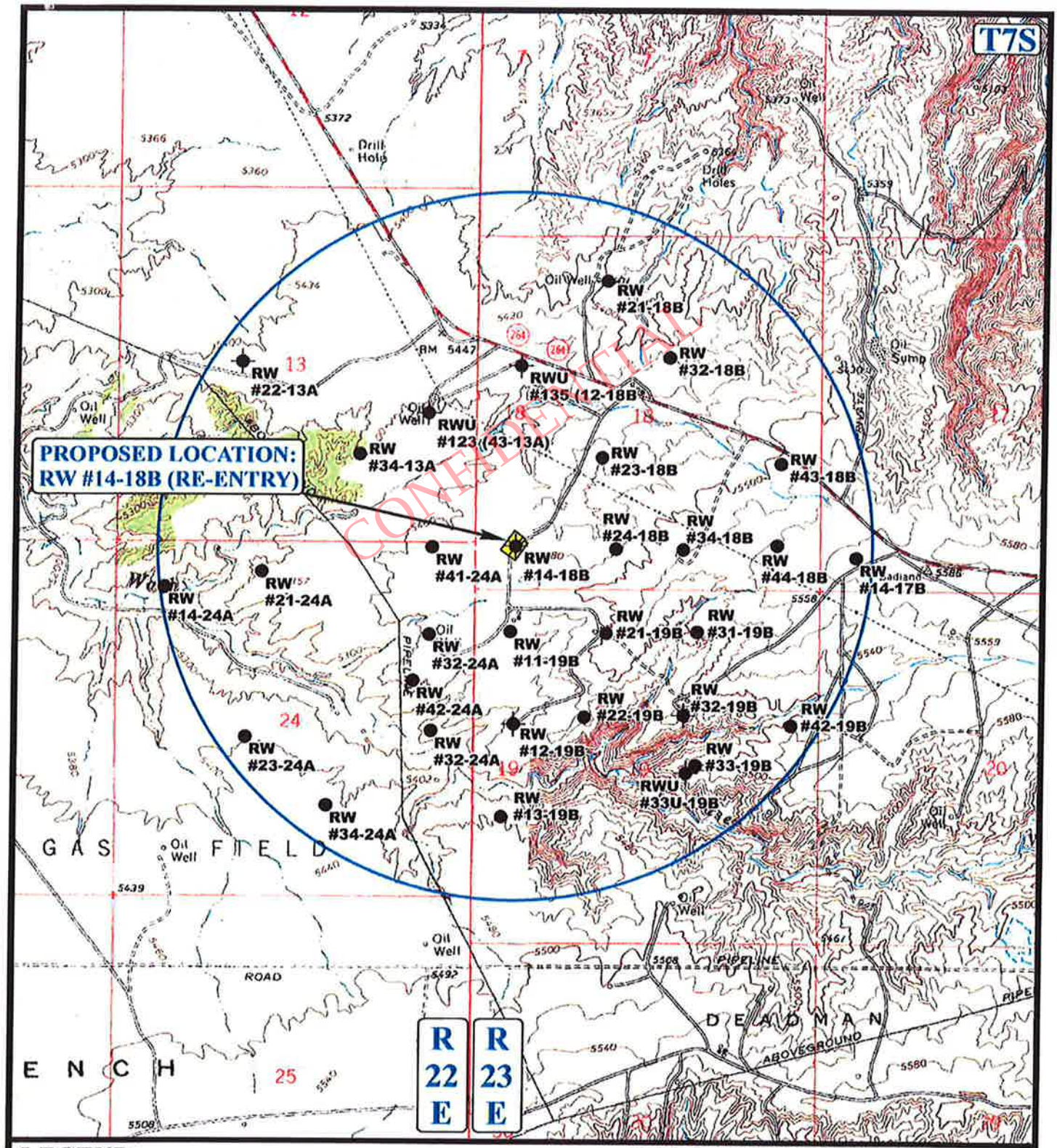
QEP ENERGY COMPANY

RW #14-18B (RE-ENTRY)
SECTION 18, T7S, R23E, S.L.B.&M.
659' FSL 592' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	09 MONTH	16 DAY	10 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: J.J.	REVISED: 00-00-00		

'APIWellNo:43047151780000'



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

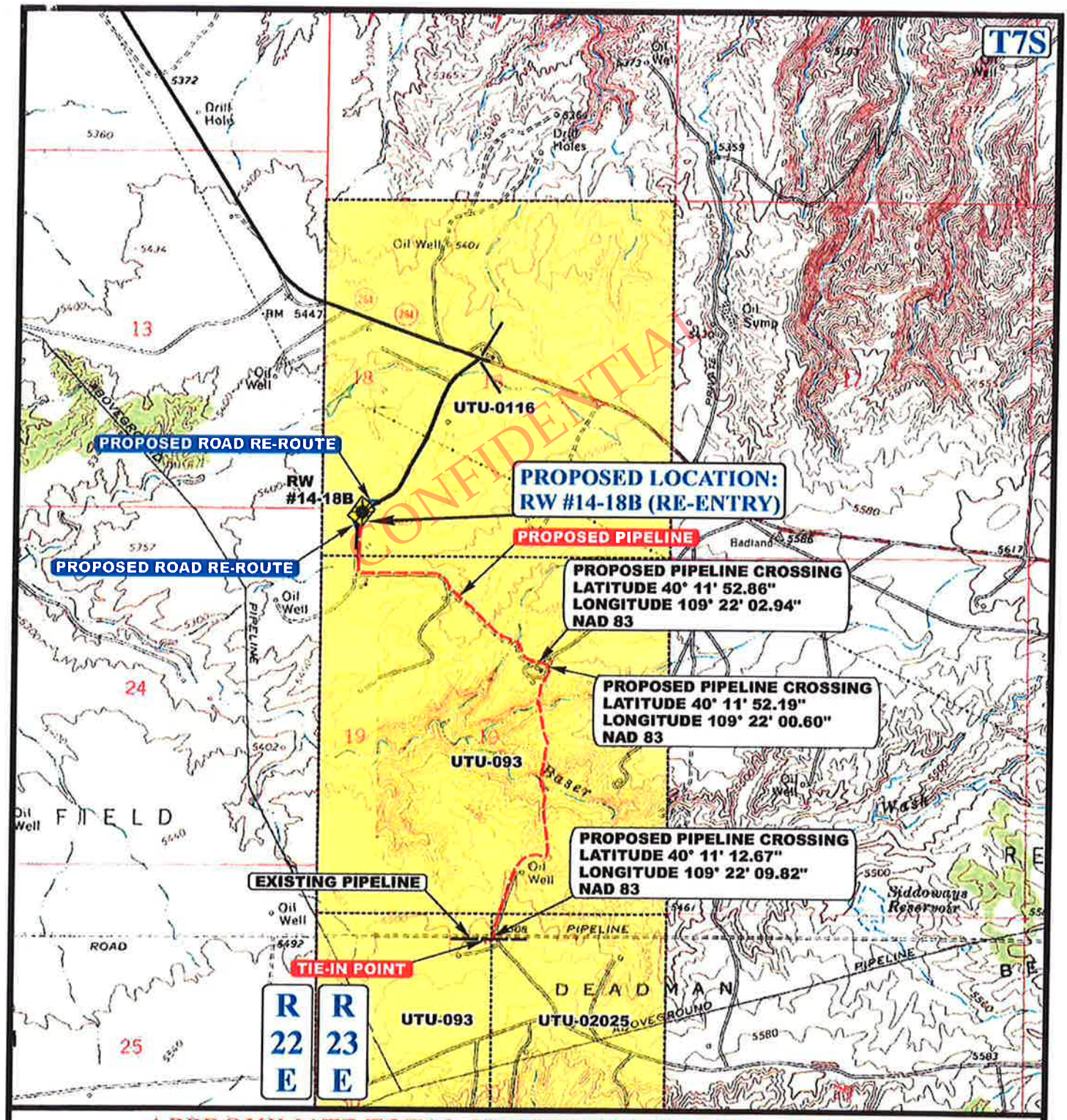
QEP ENERGY COMPANY

RW #14-18B (RE-ENTRY)
SECTION 18, T7S, R23E, S.L.B.&M.
659' FSL 592' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	16 DAY	10 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: J.J.	REVISED: 00-00-00		

'APIWellNo:43047151780000'



APPROXIMATE TOTAL PIPELINE DISTANCE = 8,736' +/-

LEGEND:

- PROPOSED ROAD RE-ROUTE
- EXISTING PIPELINE
- PROPOSED PIPELINE

N

QEP ENERGY COMPANY

RW #14-18B (RE-ENTRY)
SECTION 18, T7S, R23E, S.L.B.&M.
659' FSL 592' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	16 DAY	10 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: J.J.	REVISED: 00-00-00		

Additional Operator Remarks

QEP Energy Company proposes to re-enter the existing plugged and abandoned well bore for the RW 14-18B and drill to a depth of 11, 652' to test the Mesa Verde Formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements"

Please see Onshore Order No. 1.

Please refer to QEP Energy Company Greater Deadman Bench
EIS UT-080-2003-0369V Record of Decision dated March 31, 2008.

Please be advised that QEP Energy Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is QEP Energy company via surety as consent as provided for the 43 CFR 3104.2.

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'APIWellNo:43047151780000'

QEP ENERGY COMPANY
RW 14-18B
659' FSL 592' FWL
LOT 4, SECTION 18, T7S, R23E
UINTAH COUNTY, UTAH
LEASE # UTU-0116

ONSHORE ORDER NO. 1
MULTI – POINT SURFACE USE & OPERATIONS PLAN

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An onsite inspection was conducted for the RW 14-18B on October 13, 2010. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Aaron Roe	Bureau of Land Management
Kevin Sadlier	Bureau of Land Management
Jan Nelson	QEP Energy Company
Stephanie Tomkinson	QEP Energy Company
Guy Betts	QEP Energy Company
Bob Haygood	QEP Energy Company
Valyn Davis	QEP Energy Company
Wade Hafey	QEP Field Service
Andy Floyd	Uintah Engineering & Land Surveying

1. Existing Roads:

The proposed well site is approximately 21 miles South of Vernal, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

All existing roads will be maintained and kept in good repair during all phases of operation.

2. Planned Access Roads:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Refer to Topo Map B for the location of the proposed access road.

No new access road is proposed. The access to be used is the access to the existing RW 14-18B location. Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Should conditions warrant, rock, gravel or culverts will be installed as needed.

3. **Location of Existing Wells Within a 1 – Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

The following guidelines will apply if the well is productive.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). These dikes will be constructed of compacted impervious subsoil; hold 110% of the capacity of the largest tank; and, be independent of the back cut. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded to meet SPCC requirements with approval by the BLM/VFO AO. The specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed.

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All loading lines will be placed inside the berm surrounding the tank batteries.

All permanent (on site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a color approved by the State.

Refer to Topo Map D for the location of the proposed pipeline.

All existing equipment will be moved off location before any construction begins.

The proposed surface pipeline will be constructed utilizing existing disturbed areas to minimize surface disturbance. No construction activities will be allowed outside of the permitted ROW area.

Prior to construction, the Permittee will develop a plan of installation to minimize surface disturbance. Pipe will be strung along the ROW with either a flatbed trailer and rubber tired backhoe or a tracked typed side boom. Where surface conditions do not allow the pipe to be strung along the ROW using conventional methods, the Permittee will utilize pull sections to run the fabricated pipe through the area from central staging areas along the ROW.

Upon completion of stringing activities the Permittee will fabricate the pipeline on wooden skids adjacent to the centerline of the ROW using truck mounted welding machines. All fabricated piping will be lowered off of the wooden skids and placed along the ROW centerline. Upon completion of all activities, the wooden skids will be removed from the ROW using a flatbed truck or flatbed truck and trailer.

'APIWellNo:43047151780000'

Grading will be necessary to install the RW 14-18B pipeline lateral which will traverse the ravine between the RW 32-19B and the RW 33-19B. Grading using a track type bulldozer and track hoe will be used as necessary to provide a safe and horizontally level work surface during the installation of the pipeline. The Permittee will strip the top 6"-8" of topsoil as necessary and stockpile it separately from the sub grade native soils. Upon completion of the pipeline, cut and fill native sub grade soils will be replaced to restore the area to its original contours. Additionally, topsoil will be replaced and tracked in with a track type bulldozer upon completion of construction.

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Additionally, grading will be necessary to install the RW 14-18B lateral through the ravine between RW 33-19B and the RW 34-19B. Grading using a track type bulldozer and track hoe will be used as necessary to provide a safe and horizontally level work surface during installation of the pipeline. Through the bottom of the ravine, the proposed lateral pipeline will be installed underground with a minimum of 6' of ground cover from high water mark to high water mark. Through this area the pipeline will be bedded and shaded with native soils that are <1" in diameter. A minimum of 6" of bedding and 6" of shading will be installed to protect the pipeline. Additionally, the Permittee will field locate and install a minimum of two sandbag type pyramid trench breakers to mitigate future erosion. Native soils that were excavated to construct the pipe trench will be used to backfill the trench back to the original shape and contours prior to disturbance.

Prior to excavating the pipe trench and grading the ROW, the Permittee will strip and stockpile the top 6"-8" of topsoil separately. Upon completion of all construction activities through the ravine, the Permittee will replace and track in the stockpiled topsoil with a track type bulldozer.

Upon completion of the pipeline installation, the permitted ROW will be restored to the pre-disturbance surface contours.

The proposed pipeline will be a surface 10" or smaller, 8,736', containing 6.016 acres.

Road Crossings

Fusion Bond or concrete coated pipe will be used for all road crossings to alleviate future corrosion.

All pipe and fittings used for road crossings will be prefabricated within the proposed ROW to minimize the duration of open pipe trench across the roadway. Pipe used for road crossings will be isolated on each end with a flange set and insulation kit and cathodically protected with a magnesium type anode. Adequately sized equipment will be used for minor and major road crossings. Depth of cover for minor roads will be >4' and the depth of cover for major roads will be >6'.

Prior to lowering the pipe in the trench, the Permittee will "Jeep" the pipe to locate and repair any Holidays in the pipe coating. Upon lowering the pipe in the trench, 6" of bedding and a minimum of 6" of shading will be installed to protect the pipe using either native soils <1" in diameter or imported sand. Pipe trenches that extend across gravel roads will be backfilled with native soils to within 8" of the driving surface and capped with 3/4" road base. Pipe trenches that extend across asphalt paved roads will be backfilled to 4" of the driving surface with 3/4" road base and capped asphalt material.

5. **Location and Type of Water Supply:**

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Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Water for drilling purposes would be obtained from Wonsits Valley Water Right # A 36125 (which was filed on May 7, 1964) or Red Wash Water Right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System.

6. **Source of Construction Materials:**

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

7. **Methods of Handling Waste Materials:**

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 6 months after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists

or surface runoff will or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

It will be determined at the on-site inspection if a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner, a minimum of 20 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

No trash or scrap will be disposed of in the pit.

Reserve pit leaks are considered an undesirable event and will be orally reported to the AO.

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After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order #7, all produced water will be contained in tanks on location and then hauled to the Wonsits Valley water injection station located in the SWNW Section 12, T8S, R21E; or, the Red Wash disposal well located in the NESW, Section 28, T7S, R22E; or, the Red Wash Central Battery Disposal located SWSE, Section 27, T7S, R23E, or third-party surface evaporative pits.

Produced water, oil, and other byproducts will not be applied to roads or well pads for the control of dust or weeds. The dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site. The spills will be reported to the AO and other authorities as appropriate.

A chemical porta-toilet will be furnished with the drilling rig. The chemical porta-toilet wastes will be hauled to Ashley Valley Sewer and Water System for disposal.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location. All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig. All trash and waste material will be hauled to the Uintah County Landfill.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas. Specific APD's shall address any modifications from this policy.

8. Ancillary Facilities:

None anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram rig orientation, parking areas, and access roads, as well as the location of the following:

The reserve pit.

The stockpiled topsoil (first six inches), will not be used for facility berms. All brush removed from the well pad during construction will be stockpiled with topsoil.

The flare pit or flare box will be located downwind from the prevailing wind direction.

Any drainage that crosses the well location will be diverted around the location by using ditches, water diversion drains or berms. If deemed necessary at the on-site, erosion drains may be installed to contain sediments that could be produced from access roads and well locations.

A pit liner is required. A felt pit liner will be required if bedrock is encountered.

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10. Fencing Requirements:

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces.

Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched using a stretching device before it is attached to corner posts.

The reserve pit will be fenced on three (3) sides during drilling operations. The fourth side will be put in place when the rig moves off location. The pit will be fenced and maintained until it is backfilled. If drilling operations does not commence within 3 days, the fourth side of the fence will be installed

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11. Plans for Reclamation of the Surface:

Please refer to QEP Energy Company Uinta Basin Division Reclamation Plan

Site Specific Procedures:

Site Specific Reclamation Summary:

Reclamation will follow Questar Exploration and Production Company, Uinta Basin Division's Reclamation Plan, September 2009 (Questar's Reclamation Plan) and the BLM Green River District Reclamation Guidelines.

All trash and debris will be removed from the disturbed area.

The disturbed area will be backfilled with subsoil.

Topsoil will be spread to an even, appropriate depth and disked if needed.

Water courses and drainages will be restored.

Erosion control devices will be installed where needed.

Seeding will be done in the fall, prior to ground freeze up.

Seed mix will be submitted to a BLM AO for approval prior to seeding.

Monitoring and reporting will be conducted as stated in Questar's Reclamation Plan. A reference site has been established and is included in this application.

It was determined and agreed upon that there is 6" inches of top soil.

12. Surface Ownership:

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078
(435) 781-4400

13. Other Information:

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on September 22, 2010, **Moac Report No. 10-183** by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on October 22, 2010, **IPC # 10-171** by Stephen D. Sandau. The inspection resulted in the location of no fossil resources. However, if vertebrate fossil(s) are found during construction a paleontologist should be immediately notified. QEP will provide paleo monitor if needed.

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Per the onsite on October 13, 2010, the following items were requested/ discussed.

Corners of the location will be rounded as needed.

It was determined on the onsite by the BLM VFO AO that the facilities will be painted Covert Green.

Existing road will be re-routed. Please see location layout.

Lessee's or Operator's Representative & Certification:

Jan Nelson
Permit Agent
QEP Energy Company
11002 East 17500 South
Vernal, UT 84078
(435) 781-4331

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Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

QEP Energy Company is considered to be the operator of the subject well. QEP Energy Company agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104.2 for lease activities is being provided by Bond No. ESB000024

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operations; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

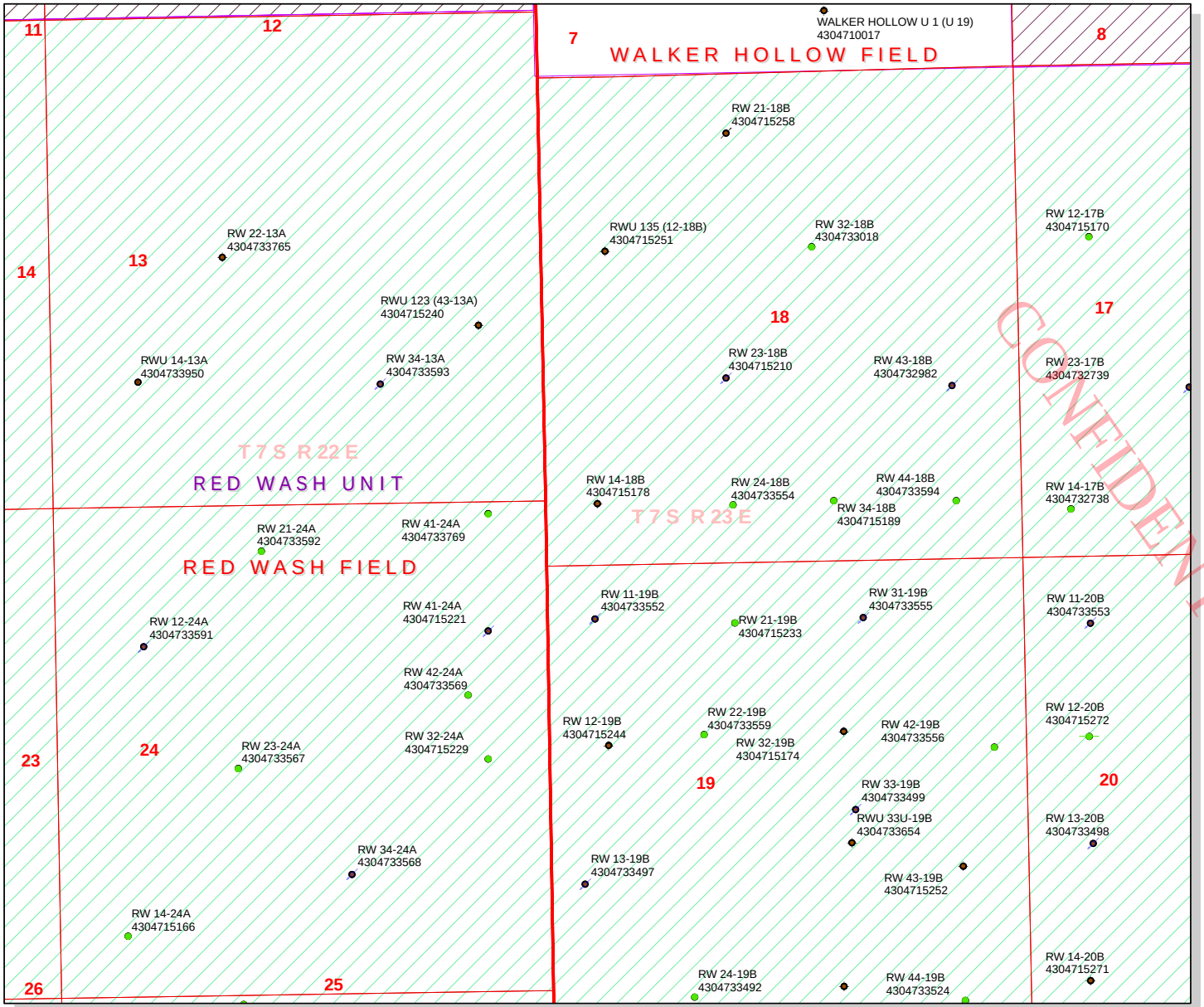
Jan Nelson

Jan Nelson

11/9/2010

Date

'APIWellNo:4304715178000'



API Number: 4304715178

Well Name: RW 14-18B

Township 07.0 S Range 23.0 E Section 18

Meridian: SLBM

Operator: QEP ENERGY COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
- Sections
- Township
- Bottom Hole Location - AGRC

Wells Query
- <all other values>

Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

N

1,400 700 0 1,400 Feet

1:13,286

'APIWellNo:43047151780000'

United States Department of the Interior

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

IN REPLY REFER TO:
3160
(UT-922)

November 15, 2010

CONFIDENTIAL

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Red Wash Unit, Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for deepening and completion in the Mesaverde Formation. The work is planned for calendar year 2010 within the Red Wash Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MESAVERDE)		
43-047-15178	RW 14-18B	Sec 18 T07S R23E 0659 FSL 0592 FWL
43-047-30341	RW 14-25B	Sec 25 T07S R23E 0660 FSL 0660 FWL
43-047-15295	RW 43-24B	Sec 24 T07S R23E 1984 FSL 0661 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.11.15 09:29:09 -07'00'

bcc: File - Red Wash Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-15-10

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 14-18B (API#: 43-047-15178)

RE-ENTRY DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

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1. Formation Tops

The estimated top of important geologic markers are as follows:

Formation	Depth, TVD & MD
Green River	3,177'
Mahogany	3,944'
Original TD	6,359'
Wasatch	6,602'
Mesaverde	9,362'
Sego	11,552'
TD	11,652'

2. Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones

The estimated depths at which the top of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

Substance	Formation	Depth, TVD & MD
Gas	Wasatch	6,602'
Gas	Mesaverde	9,362'
Gas	Sego	11,552'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/9/2010 **API NO. ASSIGNED:** 43047151780000

WELL NAME: RW 14-18B

OPERATOR: QEP ENERGY COMPANY (N3700) **PHONE NUMBER:** 435 781-4331

CONTACT: Jan Nelson

PROPOSED LOCATION: SWSW 18 070S 230E **Permit Tech Review:** ✔

SURFACE: 0659 FSL 0592 FWL **Engineering Review:** ☐

BOTTOM: 0659 FSL 0592 FWL **Geology Review:** ✔

COUNTY: UINTAH

LATITUDE: 40.20411 **LONGITUDE:** -109.37607

UTM SURF EASTINGS: 638211.00 **NORTHINGS:** 4451466.00

FIELD NAME: RED WASH

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU0116 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE:** NO

CONFIDENTIAL

RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** FEDERAL - ESB000024
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** A36125 / 49-2153
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: RED WASH

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: Cause 187-07

Effective Date: 9/18/2001

Siting: Suspends General Siting

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed
501031 UNIT EFF:000925 OP FR N0210 EFF 1-1-00:030902 OP FR N4235:070430 FR N2460:NM FR RWU 52 (14-18B):

Stipulations: 4 - Federal Approval - dmason

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: RW 14-18B
API Well Number: 43047151780000
Lease Number: UTU0116
Surface Owner: FEDERAL
Approval Date: 11/16/2010

Issued to:
QEP ENERGY COMPANY, 11002 East 17500 South, Vernal, Ut 84078

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 187-07. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month

API Well No: 43047151780000

- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
NOV 1 0 2010
BLM

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL

1a. Type of Work: ☐ DRILL ☒ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

5. Lease Serial No.
UTU0116

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
UTU63010Ø X

8. Lease Name and Well No.
RW 14-18B

2. Name of Operator
QEP ENERGY COMPANY
Contact: JAN NELSON
E-Mail: jan.nelson@questar.com

9. API Well No.
43-047-15178

3a. Address
11002 EAST 17500 SOUTH
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 435.781.4331
Fx: 435.781.4395

10. Field and Pool, or Exploratory
RED WASH

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface Lot 4 659FSL 592FWL 40.20408 N Lat, 109.37676 W Lon

At proposed prod. zone Lot 4 659FSL 592FWL 40.20408 N Lat, 109.37676 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 18 T7S R23E Mer SLB

14. Distance in miles and direction from nearest town or post office*
21 MILES FROM VERNAL, UT

12. County or Parish
UINTAH

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
592'

16. No. of Acres in Lease
1263.16

17. Spacing Unit dedicated to this well
40.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
1250'

19. Proposed Depth
11652 MD

20. BLM/BIA Bond No. on file
ESB000024

21. Elevations (Show whether DF, KB, RT, GL, etc.
5465 GL

22. Approximate date work will start
03/01/2011

23. Estimated duration
30 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
JAN NELSON Ph: 435.781.4331

Date
11/09/2010

Title
PERMIT AGENT

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
AUG 3 0 2011

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

Electronic Submission #97096 verified by the BLM Well Information System
For QEP ENERGY COMPANY, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 11/10/2010 (11RRH0206AE)

RECEIVED
SEP 0 6 2011
DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UDOGM

11SXS0010AE

NOS 9/30/2010

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**QEP Energy Company**	**Location:**	**Lot 4, Sec. 18, T7S, R23E**
Well No:	**RW 14-18B**	**Lease No:**	**UTU-0116**
API No:	**43-047-15178**	**Agreement:**	**Red Wash Unit**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved 03/31/2008. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 03/31/2013 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

- This project will be implemented on or after the Application for Permit to Drill (APD) approval date. If the well has not been spudded by March 31, 2013 this APD will expire and the operator is to cease all operations related to preparing to drill the well.

- During operations, if any vertebrate paleontological resources are discovered, all operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Vernal BLM office shall be notified within 48 hrs of the discovery, and a decision as to the preferred alternative course of action will be rendered.

- A Paleontologist acceptable to the BLM will monitor construction activity during the pipeline construction. If paleontological resources are uncovered during construction activities, the operator shall immediately suspend all operations that will further disturb such resources, and immediately notify the Authorized Officer (AO). The AO will arrange for a determination of significance and, if necessary, recommend a recovery or avoidance plan.

- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur and a completed Weed Inventory Form will be submitted to the BLM Authorized Officer.

Reclamation

- Reclamation will be completed in accordance with the Questar Exploration and Production Company, Uintah Basin Division's Reclamation Plan on file with the Vernal Field Office of the BLM.

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) three growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- All requirements for Drilling operations in Onshore Order #2 shall be adhered to.
- Advance 24-hour notification through UT_VN_OpReport@blm.gov is required for BOPE tests. Operator shall provide notification prior to installing/testing BOPE for the 5M BOPE system. For the e-mail notification, please place in the e-mail notification subject line the following text, "Deepening well work, BOPE test for 5M System . . . . well name."

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0116

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: RED WASH

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP ENERGY COMPANY

9. API NUMBER: 43047151780000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078

PHONE NUMBER: 303 308-3068 Ext

9. FIELD and POOL or WILDCAT: RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0659 FSL 0592 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/16/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

QEP ENERGY COMPANY HEREBY REQUESTS A ONE YEAR EXTENSION FOR THE APD ON THE ABOVE CAPTIONED WELL.

Approved by the Utah Division of Oil, Gas and Mining

Date: 11/23/2011

By: [signature]

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Valyn Davis	435 781-4369	Regulatory Affairs Analyst

SIGNATURE	DATE
N/A	11/17/2011

RECEIVED Nov. 17, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047151780000

API: 43047151780000
Well Name: RW 14-18B
Location: 0659 FSL 0592 FWL QTR SWSW SEC 18 TWNP 070S RNG 230E MER S
Company Permit Issued to: QEP ENERGY COMPANY
Date Original Permit Issued: 11/16/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Valyn Davis **Date:** 11/17/2011
Title: Regulatory Affairs Analyst **Representing:** QEP ENERGY COMPANY

RECEIVED Nov. 17, 2011

Federal Approval of this Action is Necessary

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0116

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME: RED WASH

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP ENERGY COMPANY

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3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078

PHONE NUMBER: 303 308-3068 Ext

9. FIELD and POOL or WILDCAT: RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0659 FSL 0592 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/2/2012	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

QEP ENERGY COMPANY REQUESTS APPROVAL TO CHANGE THE 4.5" PRODUCTION CASING WEIGHT AND GRADE- FROM: 4.5", 13.5#, N-80 LTC, COLLAPSE:8,450 PSI, BURST:9,020 PSI, TENSILE:270,000 LBS(JOINT STRENGTH CONSTRAINED). TO: 4.5", 11.6#, HCP-110 LTC, COLLAPSE:8,830PSI, BURST:10,710 PSI, TENSILE:279,000 LBS(JOINT STRENGTH CONSTRAINED).

Accepted by the Utah Division of Oil, Gas and Mining

Date: 01/05/2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Valyn Davis	435 781-4369	Regulatory Affairs Analyst

SIGNATURE	DATE
N/A	12/22/2011

RECEIVED Dec. 22, 2011

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; **QEP ENERGY COMPANY**

Well Name: **RW 14-18B (RE-ENTRY)**

Api No: **43-047-15178** Lease Type **FEDERAL**

Section **18** Township **07S** Range **23E** County **UINTAH**

Drilling Contractor **PROPETRO** RIG # _____

SPUDDED:

Date **01/27/2012**

Time **06:00 AM**

How **ROTARY**

Drilling will Commence: _____

Reported by **DARRELL**

Telephone # _____

Date **01/26 /2012** **Signed** **CHD**

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0116

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: RED WASH

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP ENERGY COMPANY

9. API NUMBER: 43047151780000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078

PHONE NUMBER: 303 308-3068 Ext

9. FIELD and POOL or WILDCAT: RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0659 FSL 0592 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 4/1/2012
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Change in spud date.

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

QEP ENERGY COMPANY HEREBY PROVIDES NOTIFICATION THAT DUE TO SCHEDULING ISSUES, THE ABOVE MENTIONED WELL, WILL NOT SPUD UNTIL APPROXIMATELY APRIL 1, 2012.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 17, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Valyn Davis	435 781-4369	Regulatory Affairs Analyst

SIGNATURE	DATE
N/A	2/16/2012

RECEIVED: Feb. 16, 2012

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0116

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: RED WASH

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP ENERGY COMPANY

9. API NUMBER: 43047151780000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078

PHONE NUMBER: 303 308-3068 Ext

9. FIELD and POOL or WILDCAT: RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0659 FSL 0592 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 4/11/2012	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

DRILLING ON THIS WELL COMMENCED: 04/11/2012

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 18, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Valyn Davis	435 781-4369	Regulatory Affairs Analyst

SIGNATURE	DATE
N/A	4/12/2012

RECEIVED: Apr. 12, 2012

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0116

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: RED WASH

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP ENERGY COMPANY

9. API NUMBER: 43047151780000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078

PHONE NUMBER: 303 308-3068 Ext

9. FIELD and POOL or WILDCAT: RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0659 FSL 0592 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/3/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

WHILE PREPARING THIS WELLBORE FOR RE-ENTRY, AN UNDOCUMENTED FISH WAS DISCOVERED AT APPROXIMATELY 5,350' THAT COULD NOT BE MILLED THROUGH. SUBSEQUENTLY A CASING INSPECTION LOG WAS RUN TO VERIFY THE CONDITION OF THE CASING AND A PART WAS DISCOVERED AT 5,204'. A BRIDGE PLUG HAS BEEN SET AT 5,063' TO ISOLATE THE REMAINDER OF THE WELLBORE. QEP ENERGY COMPANY REQUESTS APPROVAL TO SET A WHIPSTOCK ON THE BRIDGE PLUG AT 5,063' TO SIDETRACK THE WELL AND CONTINUE WITH DEEPENING OPERATIONS. ALSO, QEP ENERGY COMPANY WOULD LIKE TO OPTIMIZE BOTTOM HOLE SPACING OF THE MESA VERDE DEVELOPMENT THEREFORE, QEP ENERGY COMPANY WOULD LIKE TO DRILL THIS WELL WITH A SMALL STEP OUT +/- 350'. PLEASE SEE ATTACHED DIRECTIONAL DRILLING PLAN. BOTTOM HOLE FOOTAGES ARE: LOT 4, SEC., 18, T7S, R23E, 431' FSL, 379' FWL. QEP ENERGY COMPANY IS REQUESTING THAT THIS INFORMATION BE HELD AS "CONFIDENTIAL".

Approved by the Utah Division of Oil, Gas and Mining

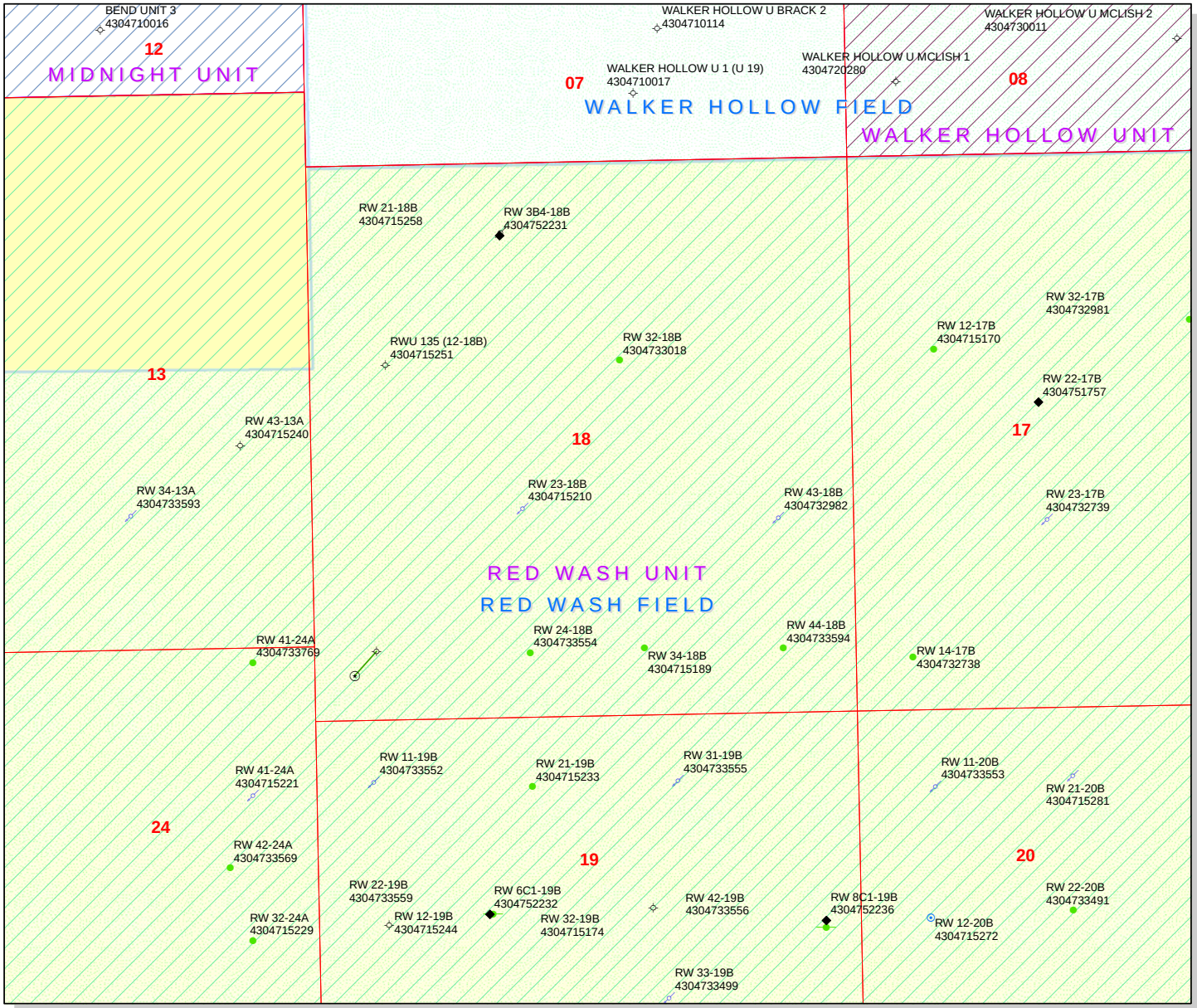
Date: April 18, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Valyn Davis	435 781-4369	Regulatory Affairs Analyst

SIGNATURE	DATE
N/A	4/3/2012

RECEIVED: Apr. 03, 2012



API Number: 4304715178

Well Name: RW 14-18B

Township T0.7 . Range R2.3 . Section 18

Meridian: SLBM

Operator: QEP ENERGY COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,200 600 0 1,200 Feet

1:11,785

RECEIVED: Apr. 11, 2012

QEP Energy Company

QEP ENERGY (UT)

Red Wash
RW 14-18B
RW 14-18B

Re-Entry

Plan: Plan ver.0

Standard Planning Report

30 March, 2012

QEP Energy Company

QEP Energy Company

QEP Resources, Inc.
Planning Report

QEP Energy Company

Database:	EDMDB_QEP	**Local Co-ordinate Reference:**	Well RW 14-18B
Company:	QEP ENERGY (UT)	**TVD Reference:**	RKB @ 5478.50usft (FRONTIER 2)
Project:	Red Wash	**MD Reference:**	RKB @ 5478.50usft (FRONTIER 2)
Site:	RW 14-18B	**North Reference:**	True
Well:	RW 14-18B	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Re-Entry		
Design:	Plan ver.0		

Project Red Wash

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site RW 14-18B

Site Position:		**Northing:**	7,250,098.432 usft	**Latitude:**	40.204075
From:	Lat/Long	**Easting:**	2,233,392.409 usft	**Longitude:**	-109.376759
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.36 °

Well RW 14-18B

Well Position	**+N/-S**	-0.01 usft	**Northing:**	7,250,098.420 usft	**Latitude:**	40.204075
	+E/-W	0.00 usft	**Easting:**	2,233,392.410 usft	**Longitude:**	-109.376759
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,462.50 usft	**Ground Level:**	5,462.50 usft

Wellbore Re-Entry

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/28/2012	10.95	66.04	52,374

Design Plan ver.0

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	4,800.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	222.99

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,063.00	0.00	0.00	5,063.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,244.70	14.54	252.55	5,242.76	-6.87	-21.87	8.00	8.00	0.00	252.55	
5,884.34	14.54	252.55	5,861.92	-55.01	-175.03	0.00	0.00	0.00	0.00	
7,337.96	0.00	0.00	7,300.00	-110.00	-350.00	1.00	-1.00	0.00	180.00	
8,637.96	0.00	0.00	8,600.00	-110.00	-350.00	0.00	0.00	0.00	0.00	
8,987.96	3.50	131.00	8,949.78	-117.01	-341.93	1.00	1.00	0.00	131.00	
11,779.39	3.50	131.00	11,736.00	-228.81	-213.32	0.00	0.00	0.00	0.00	

QEP Energy Company

QEP Resources, Inc.

Planning Report

QEP Energy Company

Database:	EDMDB_QEP	**Local Co-ordinate Reference:**	Well RW 14-18B
Company:	QEP ENERGY (UT)	**TVD Reference:**	RKB @ 5478.50usft (FRONTIER 2)
Project:	Red Wash	**MD Reference:**	RKB @ 5478.50usft (FRONTIER 2)
Site:	RW 14-18B	**North Reference:**	True
Well:	RW 14-18B	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Re-Entry		
Design:	Plan ver.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,063.00	0.00	0.00	5,063.00	0.00	0.00	0.00	0.00	0.00	0.00
5,244.70	14.54	252.55	5,242.76	-6.87	-21.87	19.94	8.00	8.00	0.00
5,884.34	14.54	252.55	5,861.92	-55.01	-175.03	159.59	0.00	0.00	0.00
7,337.96	0.00	0.00	7,300.00	-110.00	-350.00	319.13	1.00	-1.00	0.00
8,637.96	0.00	0.00	8,600.00	-110.00	-350.00	319.13	0.00	0.00	0.00
8,987.96	3.50	131.00	8,949.78	-117.01	-341.93	318.76	1.00	1.00	0.00
11,779.39	3.50	131.00	11,736.00	-228.81	-213.32	312.83	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RW 14-18B (13C1-18)	0.00	0.00	9,350.00	-168.40	-282.35	7,249,923.381	2,233,114.163	40.203613	-109.377769
- plan misses target center by 407.88usft at 8987.96usft MD (8949.78 TVD, -117.01 N, -341.93 E)									
- Circle (radius 100.00)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,177.00	3,177.00	Green River			
3,944.00	3,944.00	Mahog. Bench			
6,642.25	6,606.00	Wasatch			
9,404.96	9,366.00	Mesaverde			
11,679.20	11,636.00	Sego			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
4,800.00	4,800.00	0.00	0.00	Start 263.00 hold at 4800.00 MD
5,063.00	5,063.00	0.00	0.00	CIBP @ 5063
5,063.00	5,063.00	0.00	0.00	Start Build 8.00
5,244.70	5,242.76	-6.87	-21.87	Start 639.64 hold at 5244.70 MD
5,884.34	5,861.92	-55.01	-175.03	Start Drop -1.00
7,337.96	7,300.00	-110.00	-350.00	Start 1300.00 hold at 7337.96 MD
8,637.96	8,600.00	-110.00	-350.00	Start Build 1.00
8,987.96	8,949.78	-117.01	-341.93	Start 2791.42 hold at 8987.96 MD
11,779.39	11,736.00	-228.81	-213.32	TD at 11779.39

Company Name: QEP ENERGY (UT)

QEP Energy Company

Azimuths to True North
Magnetic North: 10.95°

Magnetic Field
Strength: 52374.4snT
Dip Angle: 65.04°
Date: 3/28/2012
Model: IGRF2010

Project: Red Wash
Site: RW 14-18B
Well: RW 14-18B
Wellbore: Re-Entry
Design: Plan ver.0

WELL DETAILS: RW 14-18B

Ground Level: 5462.50

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7250098.420	2233392.410	40.204075	-109.376758	

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RW 14-18B, True North
Vertical (TVD) Reference: RKB @ 5478.50usft (FRONTIER 2)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: RKB @ 5478.50usft (FRONTIER 2)
Calculation Method: Minimum Curvature

PROJECT DETAILS: Red Wash

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

System Datum: Mean Sea Level

DESIGN TARGET DETAILS

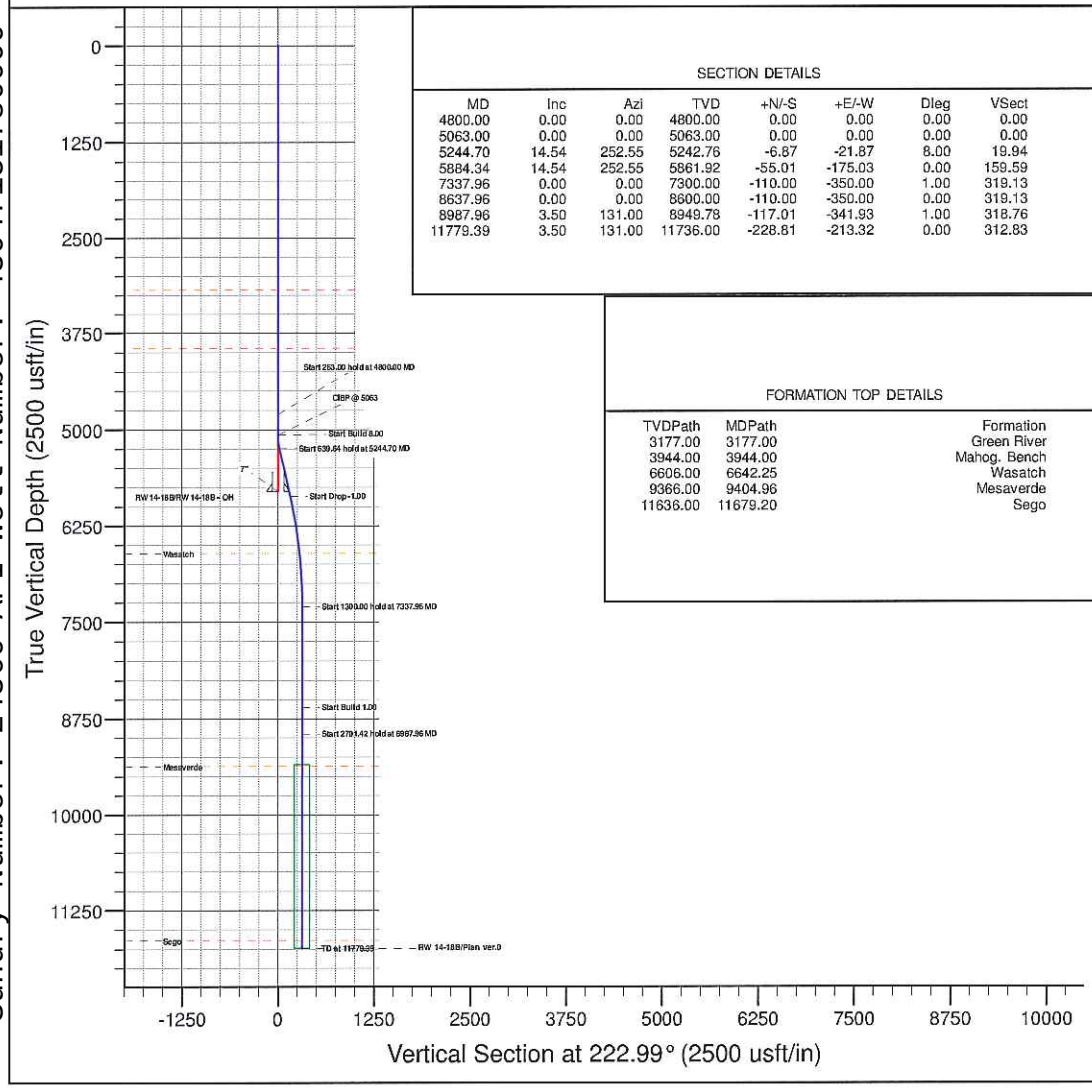
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
RW 14-18B (13C1-18)	9350.00	-168.40	-282.35	7249923.381	2233114.163	Circle (Radius: 100.00)

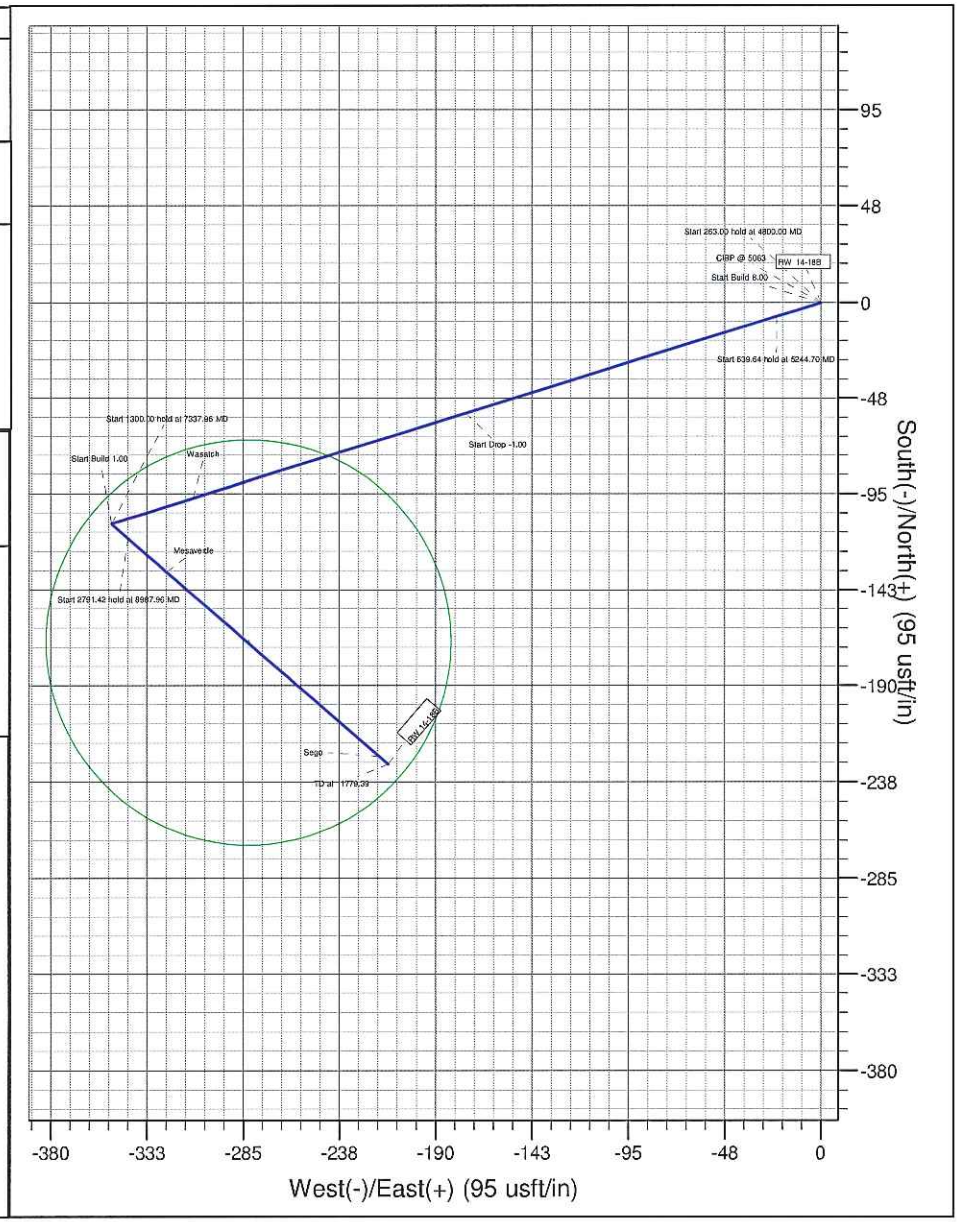
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00
5063.00	0.00	0.00	5063.00	0.00	0.00	0.00	0.00
5244.70	14.54	252.55	5242.76	-6.87	-21.87	8.00	19.94
5884.34	14.54	252.55	5861.92	-55.01	-175.03	0.00	159.59
7337.96	0.00	0.00	7300.00	-110.00	-350.00	1.00	319.13
8637.96	0.00	0.00	8600.00	-110.00	-350.00	0.00	319.13
8987.96	3.50	131.00	8949.78	-117.01	-341.93	1.00	318.76
11779.39	3.50	131.00	11736.00	-228.81	-213.32	0.00	312.83

FORMATION TOP DETAILS

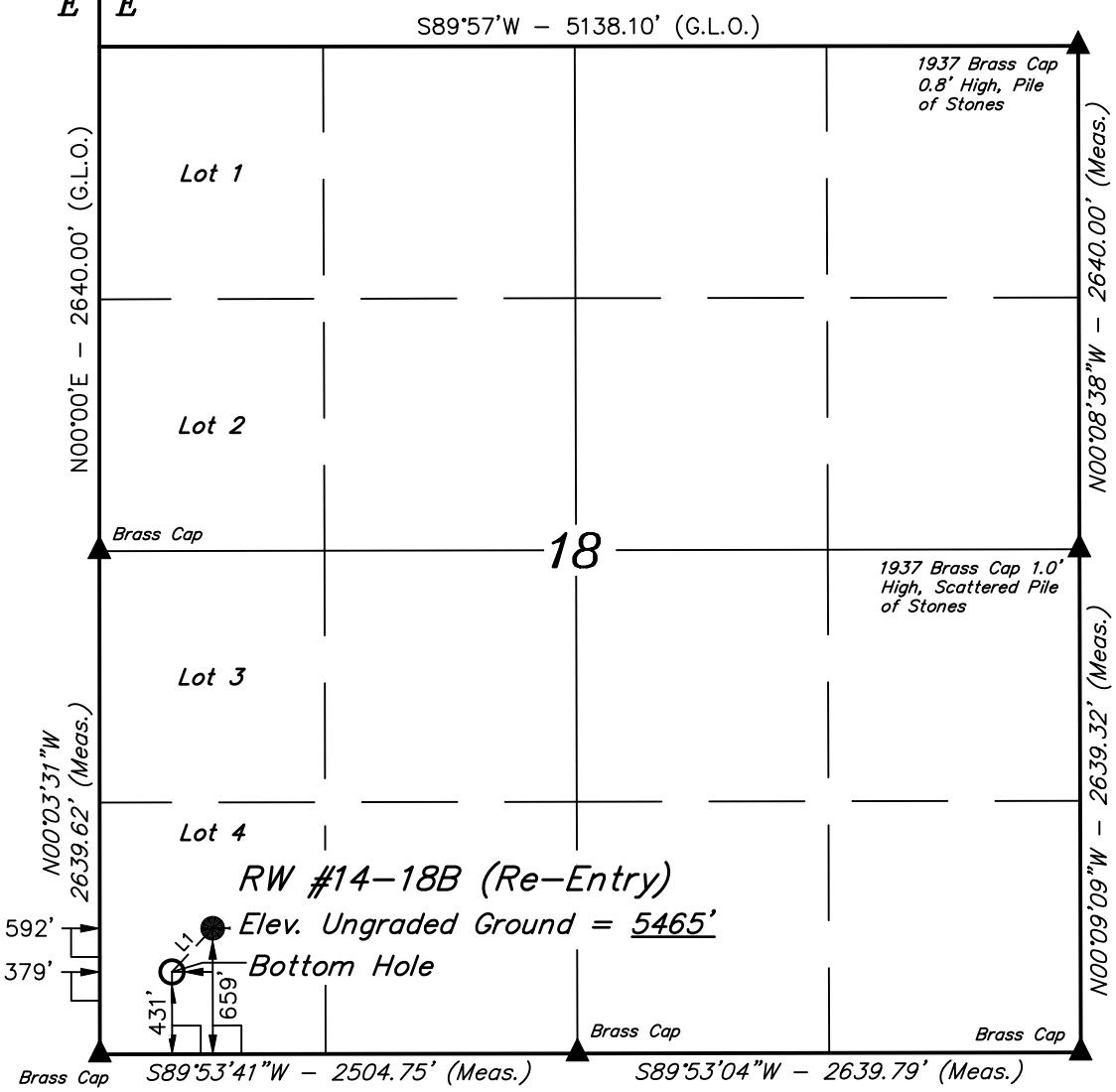
TVDPath	MDPath	Formation
3177.00	3177.00	Green River
3944.00	3944.00	Mahog. Bench
6606.00	6642.25	Wasatch
9366.00	9404.96	Mesaverde
11636.00	11679.20	Sego





Sundry Number: 24360 API Well Number: 43047151780000

T7S, R23E, S.L.B.&M.



QEP ENERGY COMPANY

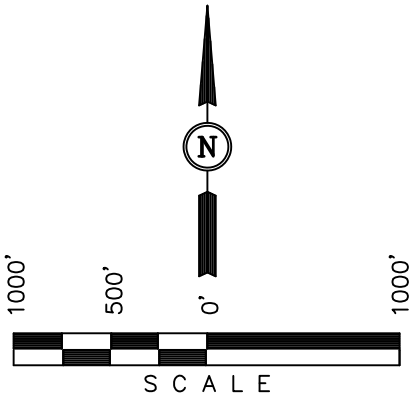
Well location, RW #14-18B (Re-Entry), located as shown in Lot 4 of Section 18, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REGISTERED LAND SURVEYOR REGISTRATION NO. 161319 STATE OF UTAH

04-02-12

REVISED: 04-02-12

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

LINE TABLE		
LINE	BEARING	LENGTH
L1	S42°59'36"W	312.82'

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°12'12.42" (40.203450)	LATITUDE = 40°12'14.67" (40.204075)
LONGITUDE = 109°22'39.08" (109.377522)	LONGITUDE = 109°22'36.33" (109.376758)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°12'12.54" (40.203483)	LATITUDE = 40°12'14.80" (40.204111)
LONGITUDE = 109°22'36.62" (109.376839)	LONGITUDE = 109°22'33.87" (109.376075)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 09-13-10	DATE DRAWN: 09-15-10
PARTY D.K. J.M. C.C.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QEP ENERGY COMPANY	

RECEIVED: Apr. 03, 2012

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: U-0116

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: RED WASH

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP ENERGY COMPANY

9. API NUMBER: 43047151780000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078

PHONE NUMBER: 303 308-3068 Ext

9. FIELD and POOL or WILDCAT: RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0659 FSL 0592 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 5/17/2012
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

THIS WELL COMMENCED PRODUCTION ON 05/17/2012.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 18, 2012

NAME (PLEASE PRINT) Valyn Davis

PHONE NUMBER 435 781-4369

TITLE Regulatory Affairs Analyst

SIGNATURE N/A

DATE 5/17/2012

RECEIVED: May. 17, 2012

C

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

FORM 6

ENTITY ACTION FORM

Operator: QEP ENERGY COMPANY
Address: 11002 EAST 17500 SOUTH
city VERNAL
state UT zip 84078

Operator Account Number: N 3700
Phone Number: (435) 781-4369

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304715178	RW 14-18B		SWSW	18	7S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	5670	18478	4/11/2012			1/1/2012	

Comments: GRRV TO WMVRD
WMMFD
CONFIDENTIAL 5/11/12

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304715296	RW 12-14B		SWNW	14	7S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	5670	18478	4/23/2012			1/1/2012	

Comments: GRRV TO WMVRD
WMMFD 5/11/12
CONFIDENTIAL

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752238	RW 9C1-26B		NESE	26	7S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	new	18478	4/26/2012			1/1/2012	

Comments: WMVRD
WMMFD 5/11/12
CONFIDENTIAL

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Valyn Davis
Name (Please Print)
Valyn Davis
Signature
Regulatory Affairs Analyst
Title
4/30/2012
Date

RECEIVED
MAY 01 2012
Div. of Oil, Gas & Mining

(5/2000)

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

CONFIDENTIAL

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU63010

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: Red Wash

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☑ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP Energy Company

9. API NUMBER: 4304715178

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

PHONE NUMBER: (303) 672-6900

10 FIELD AND POOL, OR WILDCAT: Red Wash

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 659 FSL 592 FWL

AT TOP PRODUCING INTERVAL REPORTED BELOW: 484 FSL 288 FWL

AT TOTAL DEPTH: 415 FSL 330 FWL BHL by HSM

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 18 7S 23E

12. COUNTY: Uinta

13. STATE: UTAH

14. DATE SPUDDED: 4/11/2012

15. DATE T.D. REACHED: 4/28/2012

16. DATE COMPLETED: 5/17/2012 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5479 RKB

18. TOTAL DEPTH: MD 11,860 TVD 11,810

19. PLUG BACK T.D.: MD 11,855 TVD 11,805

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

Quad Combo

23.

WAS WELL CORED?	NO ☑	YES ☐	(Submit analysis)
WAS DST RUN?	NO ☑	YES ☐	(Submit report)
DIRECTIONAL SURVEY?	NO ☐	YES ☑	(Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
6.125	4.5 HCP-110	11.6	0	11,857		900	357	2200	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	11,704		2.375	11,704				

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Mesa Verde	10,322	11,750		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
10,322 11,750	.35	144	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
10322 to 11750	57 BBL 15% KCl, 11,487 BBL Slick Water, 215,500 lb 30/50 sand

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JUN 21 2012
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☑ OTHER: Ops. Summary

30. WELL STATUS: Gas Well

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
5/17/2012	5/22/2012	24		34	2,429	118	Flows from V

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
	2,463	2,983					34	2,429	118	PGW

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Green River	2,890
Mohogany	3,567
Wasatch	6,602
Mesa Verde	9,018
Sego	11,827

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Andrew Schmid TITLE Engineering Technician

SIGNATURE DATE 6/18/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

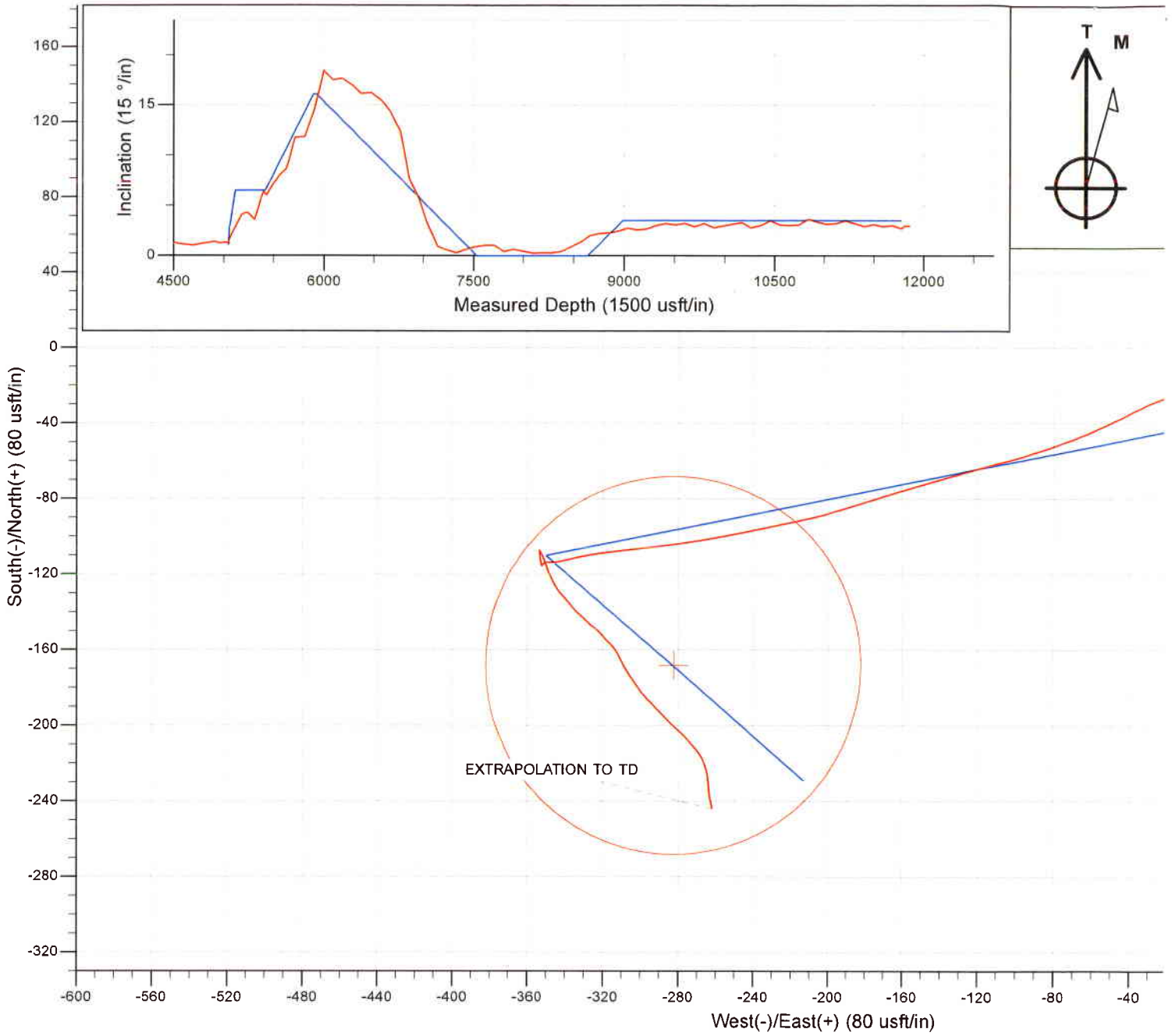
QEP ENERGY

RED WASH (UTAH)
RW 14-18B
RW 14-18B
RE-ENTRY - JOB #2009-98

11 June, 2012

Survey: FINAL SURVEYS - RE-ENTRY

total



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect
5039.4	5040.0	1.21	115.09	-38.7	8.6	22.4
11809.9	11860.0	2.90	170.30	-244.1	-262.2	357.3

Company:	QEP ENERGY	**Local Co-ordinate Reference:**	Well RW 14-18B
Project:	RED WASH (UTAH)	**TVD Reference:**	KB-EST @ 5478.5usft (Original Well Elev)
Site:	RW 14-18B	**MD Reference:**	KB-EST @ 5478.5usft (Original Well Elev)
Well:	RW 14-18B	**North Reference:**	True
Wellbore:	RE-ENTRY - JOB #2009-98	**Survey Calculation Method:**	Minimum Curvature
Design:	FINAL SURVEYS - RE-ENTRY	**Database:**	EDM_5000_1_7

Project RED WASH (UTAH)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site RW 14-18B

Site Position:		**Northing:**	7,250,098.43 usft	**Latitude:**	40° 12' 14.670 N
From:	Lat/Long	**Easting:**	2,233,392.22 usft	**Longitude:**	109° 22' 36.332 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	1.36 °

Well RW 14-18B

Well Position	**+N/-S**	0.0 usft	**Northing:**	7,250,098.43 usft	**Latitude:**	40° 12' 14.670 N
	+E/-W	0.0 usft	**Easting:**	2,233,392.22 usft	**Longitude:**	109° 22' 36.332 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	5,462.5 usft

Wellbore RE-ENTRY - JOB #2009-98

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	11/04/2012	10.95	66.04	52,371

Design FINAL SURVEYS - RE-ENTRY

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	222.99

Survey Program **Date** 11/06/2012

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
5,088.0	11,860.0	FINAL SURVEYS - RE-ENTRY (RE-ENTF	MWD	MWD - Standard

Survey

Measured Depth (usft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (usft)**	**Subsea Depth (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Vertical Section (usft)**	**Dogleg Rate (°/100usft)**	**Build Rate (°/100usft)**	**Turn Rate (°/100usft)**
TIE ON POINT										
5,040.0	***1.21***	***115.09***	***5,039.4***	***439.1***	***-38.7***	***8.6***	***22.4***	***0.00***	***0.00***	***0.00***
5,088.0	2.28	334.04	5,087.4	391.1	-38.1	8.6	21.9	6.89	2.23	-293.85
5,176.0	4.00	352.67	5,175.3	303.2	-33.4	7.5	19.4	2.25	1.95	21.17
5,209.0	4.17	351.26	5,208.2	270.3	-31.1	7.2	17.9	0.60	0.52	-4.27
5,241.0	4.22	338.17	5,240.1	238.4	-28.9	6.5	16.7	2.99	0.16	-40.91
5,304.0	3.52	308.28	5,302.9	175.6	-25.5	4.2	15.8	3.34	-1.11	-47.44
5,335.0	4.44	290.62	5,333.9	144.6	-24.5	2.3	16.4	4.91	2.97	-56.97
5,367.0	5.49	275.41	5,365.8	112.7	-23.9	-0.4	17.8	5.23	3.28	-47.53
5,398.0	6.33	267.94	5,396.6	81.9	-23.8	-3.6	19.9	3.67	2.71	-24.10
5,430.0	5.98	266.89	5,428.4	50.1	-24.0	-7.0	22.3	1.15	-1.09	-3.28
5,461.0	6.55	263.35	5,459.2	19.3	-24.3	-10.4	24.8	2.22	1.84	-11.42
5,492.0	7.08	259.68	5,490.0	-11.5	-24.8	-14.0	27.7	2.21	1.71	-11.84

Company:	QEP ENERGY	**Local Co-ordinate Reference:**	Well RW 14-18B
Project:	RED WASH (UTAH)	**TVD Reference:**	KB-EST @ 5478.5usft (Original Well Elev)
Site:	RW 14-18B	**MD Reference:**	KB-EST @ 5478.5usft (Original Well Elev)
Well:	RW 14-18B	**North Reference:**	True
Wellbore:	RE-ENTRY - JOB #2009-98	**Survey Calculation Method:**	Minimum Curvature
Design:	FINAL SURVEYS - RE-ENTRY	**Database:**	EDM_5000_1_7

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,524.0	7.47	253.97	5,521.7	-43.2	-25.8	-18.0	31.1	2.57	1.22	-17.84
5,556.0	7.91	249.49	5,553.5	-75.0	-27.1	-22.0	34.8	2.32	1.37	-14.00
5,619.0	8.57	244.83	5,615.8	-137.3	-30.6	-30.3	43.1	1.49	1.05	-7.40
5,647.0	9.36	245.09	5,643.5	-165.0	-32.5	-34.3	47.1	2.83	2.82	0.93
5,710.0	11.69	243.51	5,705.4	-226.9	-37.5	-44.6	57.9	3.73	3.70	-2.51
5,804.0	11.78	247.02	5,797.4	-318.9	-45.5	-62.0	75.5	0.77	0.10	3.73
5,900.0	14.37	250.80	5,890.9	-412.4	-53.2	-82.3	95.0	2.84	2.70	3.94
5,994.0	18.41	254.49	5,981.1	-502.6	-61.0	-107.6	118.0	4.44	4.30	3.93
6,089.0	17.45	254.14	6,071.5	-593.0	-68.9	-135.8	143.0	1.02	-1.01	-0.37
6,185.0	17.63	253.35	6,163.0	-684.5	-77.0	-163.5	167.9	0.31	0.19	-0.82
6,280.0	16.92	252.39	6,253.7	-775.2	-85.3	-190.5	192.3	0.81	-0.75	-1.01
6,375.0	16.08	258.71	6,344.8	-866.3	-92.1	-216.6	215.0	2.08	-0.88	6.65
6,471.0	16.17	257.92	6,437.1	-958.6	-97.5	-242.7	236.8	0.25	0.09	-0.82
6,567.0	15.47	260.65	6,529.4	-1,050.9	-102.4	-268.4	257.9	1.06	-0.73	2.84
6,662.0	14.29	263.90	6,621.2	-1,142.7	-105.7	-292.5	276.8	1.52	-1.24	3.42
6,757.0	12.39	262.93	6,713.7	-1,235.2	-108.2	-314.3	293.5	2.01	-2.00	-1.02
6,852.0	7.69	258.10	6,807.2	-1,328.7	-110.7	-330.7	306.5	5.02	-4.95	-5.08
6,947.0	5.63	256.25	6,901.5	-1,423.0	-113.2	-341.4	315.6	2.18	-2.17	-1.95
7,042.0	2.99	276.73	6,996.3	-1,517.8	-114.0	-348.4	320.9	3.17	-2.78	21.56
7,137.0	0.88	211.25	7,091.2	-1,612.7	-114.3	-351.2	323.1	2.89	-2.22	-68.93
7,231.0	0.53	209.58	7,185.2	-1,706.7	-115.3	-351.8	324.3	0.37	-0.37	-1.78
7,326.0	0.22	280.95	7,280.2	-1,801.7	-115.7	-352.2	324.8	0.53	-0.33	75.13
7,421.0	0.57	342.56	7,375.2	-1,896.7	-115.2	-352.5	324.6	0.53	0.37	64.85
7,516.0	0.83	352.14	7,470.2	-1,991.7	-114.0	-352.8	324.0	0.30	0.27	10.08
7,611.0	0.97	347.60	7,565.2	-2,086.7	-112.6	-353.0	323.1	0.17	0.15	-4.78
7,706.0	0.97	357.33	7,660.2	-2,181.7	-111.0	-353.3	322.1	0.17	0.00	10.24
7,800.0	0.35	354.95	7,754.2	-2,275.7	-109.9	-353.3	321.3	0.66	-0.66	-2.53
7,895.0	0.57	348.98	7,849.2	-2,370.7	-109.1	-353.4	320.8	0.24	0.23	-6.28
7,990.0	0.40	355.31	7,944.2	-2,465.7	-108.4	-353.6	320.3	0.19	-0.18	6.66
8,085.0	0.18	16.93	8,039.2	-2,560.7	-107.9	-353.5	320.0	0.25	-0.23	22.76
8,180.0	0.22	320.32	8,134.2	-2,655.7	-107.6	-353.6	319.8	0.20	0.04	-59.59
8,275.0	0.22	85.83	8,229.2	-2,750.7	-107.4	-353.5	319.7	0.41	0.00	132.12
8,370.0	0.34	157.73	8,324.2	-2,845.7	-107.7	-353.3	319.7	0.36	0.13	75.68
8,465.0	0.79	155.27	8,419.2	-2,940.7	-108.5	-352.9	320.0	0.47	0.47	-2.59
8,559.0	1.27	153.42	8,513.1	-3,034.6	-110.1	-352.1	320.6	0.51	0.51	-1.97
8,654.0	1.93	160.72	8,608.1	-3,129.6	-112.5	-351.1	321.7	0.73	0.69	7.68
8,749.0	2.15	162.82	8,703.0	-3,224.5	-115.7	-350.1	323.4	0.24	0.23	2.21
8,844.0	2.20	156.41	8,798.0	-3,319.5	-119.1	-348.8	325.0	0.26	0.05	-6.75
8,938.0	2.37	156.23	8,891.9	-3,413.4	-122.5	-347.3	326.5	0.18	0.18	-0.19
9,033.0	2.68	143.49	8,986.8	-3,508.3	-126.1	-345.2	327.6	0.67	0.33	-13.41
9,128.0	2.50	149.64	9,081.7	-3,603.2	-129.7	-342.8	328.6	0.35	-0.19	6.47
9,223.0	2.59	136.72	9,176.6	-3,698.1	-133.0	-340.3	329.4	0.61	0.09	-13.60
9,318.0	2.94	136.99	9,271.5	-3,793.0	-136.4	-337.2	329.7	0.37	0.37	0.28
9,413.0	3.12	137.25	9,366.4	-3,887.9	-140.1	-333.8	330.0	0.19	0.19	0.27
9,508.0	2.99	135.40	9,461.2	-3,982.7	-143.7	-330.3	330.3	0.17	-0.14	-1.95
9,602.0	3.16	124.59	9,555.1	-4,076.6	-146.9	-326.4	330.1	0.64	0.18	-11.50
9,696.0	2.81	135.58	9,649.0	-4,170.5	-150.1	-322.7	329.8	0.71	-0.37	11.69
9,791.0	3.16	136.02	9,743.9	-4,265.4	-153.6	-319.2	330.0	0.37	0.37	0.46
9,885.0	2.72	135.23	9,837.7	-4,359.2	-157.1	-315.9	330.3	0.47	-0.47	-0.84
9,980.0	2.90	151.14	9,932.6	-4,454.1	-160.8	-313.1	331.1	0.84	0.19	16.75
10,075.0	3.08	150.87	10,027.5	-4,549.0	-165.1	-310.7	332.6	0.19	0.19	-0.28
10,170.0	3.21	151.31	10,122.3	-4,643.8	-169.7	-308.2	334.2	0.14	0.14	0.46
10,265.0	2.72	147.88	10,217.2	-4,738.7	-173.9	-305.7	335.7	0.55	-0.52	-3.61

Company:	QEP ENERGY	**Local Co-ordinate Reference:**	Well RW 14-18B
Project:	RED WASH (UTAH)	**TVD Reference:**	KB-EST @ 5478.5usft (Original Well Elev)
Site:	RW 14-18B	**MD Reference:**	KB-EST @ 5478.5usft (Original Well Elev)
Well:	RW 14-18B	**North Reference:**	True
Wellbore:	RE-ENTRY - JOB #2009-98	**Survey Calculation Method:**	Minimum Curvature
Design:	FINAL SURVEYS - RE-ENTRY	**Database:**	EDM_5000_1_7

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,360.0	2.94	143.58	10,312.1	-4,833.6	-177.8	-303.1	336.7	0.32	0.23	-4.53
10,455.0	3.43	143.84	10,407.0	-4,928.5	-182.0	-299.9	337.7	0.52	0.52	0.27
10,550.0	2.99	137.25	10,501.8	-5,023.3	-186.1	-296.6	338.4	0.60	-0.46	-6.94
10,644.0	2.94	135.23	10,595.7	-5,117.2	-189.7	-293.2	338.7	0.12	-0.05	-2.15
10,739.0	2.99	136.81	10,690.5	-5,212.0	-193.2	-289.8	338.9	0.10	0.05	1.66
10,834.0	3.56	135.75	10,785.4	-5,306.9	-197.1	-286.1	339.2	0.60	0.60	-1.12
10,928.0	3.30	133.47	10,879.2	-5,400.7	-201.1	-282.1	339.4	0.31	-0.28	-2.43
11,023.0	3.08	130.83	10,974.1	-5,495.6	-204.6	-278.1	339.3	0.28	-0.23	-2.78
11,118.0	3.16	140.24	11,068.9	-5,590.4	-208.3	-274.5	339.6	0.55	0.08	9.91
11,213.0	3.43	138.57	11,163.8	-5,685.3	-212.4	-271.0	340.2	0.30	0.28	-1.76
11,308.0	3.16	150.70	11,258.6	-5,780.1	-216.8	-267.8	341.2	0.79	-0.28	12.77
11,403.0	2.86	163.44	11,353.5	-5,875.0	-221.4	-265.9	343.2	0.77	-0.32	13.41
11,498.0	3.03	166.25	11,448.4	-5,969.9	-226.1	-264.6	345.8	0.23	0.18	2.96
11,594.0	2.86	179.79	11,544.2	-6,065.7	-231.0	-264.0	349.0	0.74	-0.18	14.10
11,687.0	2.94	173.02	11,637.1	-6,158.6	-235.7	-263.7	352.2	0.38	0.09	-7.28
11,782.0	2.64	167.83	11,732.0	-6,253.5	-240.2	-262.9	355.0	0.41	-0.32	-5.46
11,805.0	2.90	170.30	11,755.0	-6,276.5	-241.3	-262.7	355.6	1.24	1.13	10.74
EXTRAPOLATION TO TD										
11,860.0	***2.90***	***170.30***	***11,809.9***	***-6,331.4***	***-244.1***	***-262.2***	***357.3***	***0.00***	***0.00***	***0.00***

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TARGET - RW 14-18I	0.00	0.00	9,350.0	-168.4	-282.3	7,249,923.38	2,233,113.97	40° 12' 13.006 N	109° 22' 39.971 W
- survey misses target center by 59.5usft at 9399.6usft MD (9353.0 TVD, -139.5 N, -334.3 E)									
- Circle (radius 100.0)									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,040.0	5,039.4	-38.7	8.6	TIE ON POINT
11,860.0	11,809.9	-244.1	-262.2	EXTRAPOLATION TO TD

Checked By: _____ Approved By: _____ Date: _____

QEP ENERGY

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/3/2012	06:00 - 18:00	12.00	LOC	3	PJSM WITH ALL RIG CREWS & WESTROC PERSONEL RIG DOWN & MOVE TO NEW LOCATION,BACK YARD,MUD PITS ,REMOVE DERRICK FROM FLOOR,SPLITDRAWWORK,MOTOR SHED,CENTER STEEL, SUB STRUCTURE,DOG HOUSE,KOOMEY UNIT,CHOKE MANIFOLD, 100% RIG DOWN 90% MOVE RWU 14 -18B
	18:00 - 06:00	12.00	LOC	3	WAIT ON DAYLITES
4/4/2012	06:00 - 18:00	12.00	LOC	4	PJSM, WITH RIG CREW AND WESTROC PERSONEL RIG UP ,SET MATS ,SUB STRUCTURE,CENTER STEEL,ROTATE TABLE,DRAWWORKS, BACK YARD,MUD PITS, MOTOR SHED,DOG HOUSE,KOOMEY UNIT , CHOKE MANIFOLD,ASSEMBLE DERRICK,MAN CAMPS. 65% RIG UP 100% MOVED
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLITES
4/5/2012	06:00 - 18:00	12.00	LOC	4	PJSM, WELD PAT EYES ON DERRICK ,INSTALL CLAMPS ON DERRICK FOR TOP DRIVE AND SET DERRICK ON FLOOR AND PIN, RAISE A-LEGS CONTINUE FAB. GAS BUSTER LINES 70% RIG UP TOP DRIVE RIG UP 5%
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLITES
4/6/2012	06:00 - 09:30	3.50	LOC	4	PJSM AND GET DERRICK READY TO RAISE & FABRICATE GAS BUSTER LINES AND CHOKE MANIFOLD LINES
	09:30 - 10:30	1.00	LOC	4	PJSM RAISE DERRICK
	10:30 - 06:00	19.50	LOC	4	RIG UP TORQUE TUBE FOR TOP DRIVE,HOOK UP ROTATE CHAIN, CHANGE LINER AND SWAPS IN PUMPS TO 5" MISCELLANEOUS RIG UP
4/7/2012	06:00 - 06:00	24.00	LOC	4	PJSM RIG TORQUE TUBE PICK UP TOP DRIVE FABICATE BUSTER LINES,CHOCKE LINES,MUD LINES FROM PUMPS TO POPOFF LINES HOOK UP FLARE LINES
4/8/2012	06:00 - 20:00	14.00	LOC	4	PJSM RIG TORQUE TUBE WORK ON TOP DRIVE HOOK UP BUSTER LINES,CHOKE LINES,FABCATE MUD LINES FROM PUMPS TO POPOFF LINES HOOK UP CHOKE LINES (PJSM WITH NIGHT CREW)CHANGE OUT KELLY HOSE TROUBLE SHOOT TOP DRIVE RECEIVED 390 JOINTS OF 3 1/2 DRILL PIPE 30 JOINTS HEAVY WEIGHT DRILL PIPE AND 6 DRILL COLLAR (STAND DOWN SAFETY MEETING TUESDAYAPRIL10)
	20:00 - 06:00	10.00	RIG	2	WAIT ON OMRON ELETRICTION
4/9/2012	06:00 - 06:00	24.00	RIG	2	WAIT ON OMRON ELECTRIC, HOOK UP POP OFF LINE TO PUMP CHANGE OUT PIPE RAMS TO FLEX RAMS 3 1/2 X 5, NIPPLE UP BOPE AND ROTATE HEAD,FILL MUD PITS AND WATER TANK AND GENERAL HOUSE CLEANING AND RIG UP
4/10/2012	06:00 - 09:00	3.00	RIG	2	WAIT ON OMRON ELECTRIC
	09:00 - 00:00	15.00	RIG	2	WORK ON TOP DRIVE,ADJUST TRACK, RE PROGRAM SCR UNIT
	00:00 - 06:00	6.00	BOP	2	PJSM AND TEST BOP- ANNULAR 2500 PSI HIGH,250 LOW. PIPE,BLIND AND HCR AND CHOKE MANIFOLD VALVES 5000 PSI HIGH,250 LOW FUNTION TEST ACCUMALATOR
4/11/2012	06:00 - 07:00	1.00	BOP	2	TEST BOPE(TEST PIPE RAMS WITH 3 1/2 AND 4 1/2 DRILL PIPE)
	07:00 - 09:00	2.00	RIG	2	PJSM CHANGE OUT SWIVEL PACKING ON TOP DRIVE
	09:00 - 10:00	1.00	RIG	1	RIG SERVICE CHANGE OIL IN TOP DRIVE
	10:00 - 11:00	1.00	RIG	7	STAND DOWN SAFETY MEETING WITH ALL RIG HAND AND THIRD PARTY PERSONEL, FRONTIER SAFETY, SUPERINTENT AND QEPS SAFETY HAND
	11:00 - 13:00	2.00	LOG	4	WIRE LINE GYRO
	13:00 - 14:30	1.50	OTH		TEST MUD PUMP LINE AND RESET POP OFF
	14:30 - 15:00	0.50	RIG	7	PJSM WITH RIG HANDS AND WETHERFORD PICK UP MACHINE
	15:00 - 21:30	6.50	TRP	1	PICK UP BHA AND 3 1/2 DRILL PIPE TAGGED UP @5063'
	21:30 - 23:00	1.50	CIRC	1	CIRCULATE BOTTOMS UP, RIG DOWN LAY DOWN TRUCK
	23:00 - 01:00	2.00	RIG	2	ADJUST TOP DRIVE TRACK AND CHANGE OUT BAILS
	01:00 - 04:00	3.00	TRP	2	TRIP OUT OF HOLE FOR WHIP STOCK
	04:00 - 06:00	2.00	RIG	2	CHANGE OUT BLOWER ON TOP DRIVE MOTOR
4/12/2012	06:00 - 11:00	5.00	RIG	2	RIG REPAIR INSTALL BLOWER MOTOR AND ADJUST TURN BUCKLES ON

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/12/2012	06:00 - 11:00	5.00	RIG	2	TRACK ,CHANGE OUT DIES ON GRABBER BOX ,INSTALL NEW AELLEN BOLTS ON BELL CLAMPS
	11:00 - 12:30	1.50	DRL	7	PICK UP WHIPSTOCK AND ORITENT ANCHOR
	12:30 - 17:00	4.50	TRP	2	TRIP IN HOLE WITH WIP-STOCK ASSSEMBLY
	17:00 - 17:30	0.50	LOG	4	RUN IN HOLE WITH GYRO
	17:30 - 18:00	0.50	DRL	3	ORIENT AND SET WHIP STOCK TOOL@253 AZ
	18:00 - 19:00	1.00	OTH		SHEAR LOSS FROM WHIP STOCK, P.O.O.H WITH WIRE LINE AND RIG DOWN
	19:00 - 02:30	7.50	DRL	7	SET TORQUE ON TOP DRIVE AND MILL F/5049 T/5059 MADE 10'
	02:30 - 04:30	2.00	TRP	2	TRIP OUT OF HOLE FOR NEW MILLS
	04:30 - 05:00	0.50	TRP	1	CHANGE OUT MILLS
	05:00 - 06:00	1.00	RIG	2	CHANGE OUT BAILS TO LONGER ONES
4/13/2012	06:00 - 10:00	4.00	TRP	2	PJSM TRIP IN HOLE WITH MILL
	10:00 - 13:30	3.50	DRL	1	MILL FROM 5059 TO 5062 (3')(400 PSI) (90 RPM)(180 GPM)
	13:30 - 14:30	1.00	REAM	1	REAM OUT WINDOW
	14:30 - 15:30	1.00	RIG	1	RIG SERVICE TOP DRIVE
	15:30 - 16:30	1.00	RIG	2	RIG REPAIR REPLACE RAM AND ADJUST TOP DRIVE
	16:30 - 21:00	4.50	TRP	2	TRIP OUT FOR DRECTIONAL TOOLS- LAY DOWN MILLING ASSEMBLY
	21:00 - 23:30	2.50	TRP	1	PICK UP DIRECTIONAL TOOLS AND ORIENT
	23:30 - 03:00	3.50	TRP	10	TRIP IN HOLE
	03:00 - 05:00	2.00	DRL	3	PJSM RIG UP SIDE ENTRY SUD RUN WIYH GRYO AND ORIENT
	05:00 - 06:00	1.00	DRL	2	SLIDE DRILL F/ 5062 TO 5064(ROP 2 ')(255 GPM) (66 DHRPM)(1100PSI)
4/14/2012	06:00 - 16:00	10.00	DRL	2	CONTROL DRILL F/ 5064 TO 5098 (3.4' PR HR) (GPM 255) (1400 PSI) (DRPM 66)
	16:00 - 17:00	1.00	OTH		PJSM PULL OUT GYRO LINE AND CONNECTION RUN IN GRYO
	17:00 - 17:30	0.50	RIG	1	RIG SERVICE TOP DRIVE
	17:30 - 19:30	2.00	DRL	2	CONTROL DRILL F/ 5098 TO5120(2' ROP)(GPM 255) (1400 PSI)(DRPM66)
	19:30 - 20:30	1.00	OTH		P.O.O.H WITH GYRO TOOL AND MAKE CONNECTION
	20:30 - 21:00	0.50	DRL	2	ROTATE DRILING F/5120 T/5157 (74' PR HR)(GPM 255)(1400 PSI)(DRPM 66)
	21:00 - 23:30	2.50	OTH		RUN IN HOLE WITH GYRO AND ORIENT TOOL. COULD NOT GET TO BOTTOM ON THE FIRST RUN DOTO A BENT CENTRILIZER
	23:30 - 05:00	5.50	DRL	1	CONTROL DRILLING F/5157 T/5189 (5.8'PR HR) (GPM 255)(1500 PSI)(DRPM 66)
	05:00 - 06:00	1.00	OTH		P.O.O.H WITH GYRO AND MAKE CONNECTIONA AND SURVEY
4/15/2012	06:00 - 07:30	1.50	DRL	2	SLIDE DRILLF/ 5189T 5215 (24'=16 FPH)(255 GPM)(RPM 66)(1350 PSI)
	07:30 - 08:30	1.00	DRL	1	ROTATE DRILLF/ 5215 T5240 (25'=25FPH)(255 GPM)(RPM110)(1350PSI)
	08:30 - 09:30	1.00	DRL	2	SLIDE DRILLF/ 5240 T5255 (15'=15 FPH)(255 GPM)(RPM 66)(1350 PSI)
	09:30 - 10:00	0.50	DRL	1	ROTATE DRILLF/ 5255 T 5270 (15'=30 FPH)(255 GPM)(RPM110)(1350PSI)
	10:00 - 11:00	1.00	DRL	2	SLIDE DRILLF/ 5270 T 5286 (16'=16 FPH)(255 GPM)(RPM 66)(1350 PSI)
	11:00 - 12:30	1.50	DRL	1	ROTATE DRILLF/ 5286 T 5310 (36'=24 FPH)(255 GPM)(RPM110)(1350PSI)
	12:30 - 13:30	1.00	DRL	2	SLIDE DRILLF/ 5310 T 5330 (20'=20 FPH)(255 GPM)(RPM 66)(1350 PSI)
	13:30 - 14:00	0.50	DRL	1	ROTATE DRILLF/ 5330 T/5340 (10'=20 FPH)(255 GPM)(RPM110)(1350PSI)
	14:00 - 14:30	0.50	DRL	2	SLIDE DRILLF/ 5340 T/5349(9'=18 FPH)(255 GPM)(RPM 66)(1350 PSI)
	14:30 - 15:00	0.50	DRL	1	ROTATE DRILLF/ 5349 T/5364 (16'=32 FPH)(255 GPM)(RPM110)(1350PSI)
	15:00 - 16:00	1.00	DRL	2	SLIDE DRILLF/ 5364 T/5380(16'=16 FPH)(255 GPM)(RPM 66)(1350 PSI)
	16:00 - 17:00	1.00	RIG	1	RIG SERVICE
	17:00 - 19:00	2.00	DRL	2	SLIDE DRILLF/ 5380 T/395(15'=7.5FPH)(255 GPM)(RPM 66)(1350 PSI)
	19:00 - 19:30	0.50	DRL	1	ROTATE DRILLF/ 5395 T/5415 (20'=40 FPH)(255 GPM)(RPM110)(1350PSI)
	19:30 - 21:00	1.50	DRL	2	SLIDE DRILLF/ 5415 T/5424(9'=6 FPH)(255 GPM)(RPM 66)(1350 PSI)
	21:00 - 21:30	0.50	DRL	1	ROTATE DRILLF/ 5424 T/5445 (21'=42 FPH)(277 GPM)(RPM117)(1200PSI)
	21:30 - 22:30	1.00	DRL	2	SLIDE DRILLF/ 5445 T/5460(15'=15 FPH)(277GPM)(RPM 72)(1200 PSI)
	22:30 - 23:00	0.50	DRL	1	ROTATE DRILLF/ 5460 T/5472 (12'=24 FPH)(290 GPM)(RPM120)(1200PSI)
	23:00 - 02:30	3.50	CIRC	1	CURCULATE ON CHOKE TO KILL WATER FLOW, RAISE MUD WEIGHT TO 10.1 PPG WATER FLOW STARTED @ 5422'
	02:30 - 04:30	2.00	DRL	2	SLIDE DRILLF/ 5472 T/5486 (14'=7'/HR FPH)(290GPM)(RPM 75)(1750 PSI)

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/15/2012	04:30 - 06:00	1.50	RIG	2	REPAIR HYDRAULIC LINE ON TOP DRIVE
4/16/2012	06:00 - 07:00	1.00	RIG	2	WORK ON TOP DRIVE
	07:00 - 09:00	2.00	DRL	2	SLIDE DRILLF/ 5485 T/5501(16'=8 FPH)(278GPM)(RPM 75)(2000 PSI)
	09:00 - 09:30	0.50	DRL	1	ROTATE DRILLF/ 5501 T/5521 (20'=40 FPH)(278 GPM)(RPM120)(2000PSI)
	09:30 - 11:30	2.00	DRL	2	SLIDE DRILLF/ 5521 T/5537(16'=8 FPH)(278GPM)(RPM 75)(2000 PSI)
	11:30 - 12:00	0.50	DRL	1	ROTATE DRILLF/ 5537 T/5569 (32'=64 FPH)(278 GPM)(RPM120)(2000PSI)
	12:00 - 12:30	0.50	RIG	1	RIG SERVICE RIG AND TOP DRIVE
	12:30 - 13:00	0.50	DRL	1	ROTATE DRILLF/ 5569 T/5581 (12'=24 FPH)(278 GPM)(RPM120)(2000PSI)
	13:00 - 15:30	2.50	DRL	2	SLIDE DRILLF/ 5581 T/5601(20'=8 FPH)(278GPM)(RPM 75)(2000 PSI)
	15:30 - 16:00	0.50	DRL	1	ROTATE DRILLF/ 5601 T/5616 (15'=30 FPH)(278 GPM)(RPM120)(2000PSI)
	16:00 - 18:00	2.00	DRL	2	SLIDE DRILLF/ 5616 T/5634(18'=9 FPH)(278GPM)(RPM 75)(2000 PSI)
	18:00 - 18:30	0.50	DRL	1	ROTATE DRILLF/ 5634 T/5643 (9'=18 FPH)(278 GPM)(RPM120)(2000PSI)
	18:30 - 20:00	1.50	DRL	2	SLIDE DRILLF/ 5643 T/5658(15'=10 FPH)(278GPM)(RPM 75)(2000 PSI)
	20:00 - 20:30	0.50	DRL	1	ROTATE DRILLF/ 5658 T/5661 (3'=50 FPH)(278 GPM)(RPM120)(2000PSI)
	20:30 - 22:00	1.50	CIRC	1	CIRCULATE AND CONDTITION HOLE FOR TRIP-SPOT ECD PILL
	22:00 - 00:30	2.50	TRP	10	TRIP OUT OF HOLE TO CHANGE MOTOR BEND
	00:30 - 02:00	1.50	TRP	1	CHANGE OUT MOTOR AND BIT, CHECK MWD TOOLS
	02:00 - 05:00	3.00	TRP	1	TRIP IN HOLE FILL PIPE
	05:00 - 05:30	0.50	CIRC	1	CIRCULATE OUT WATER FLOW THUR CHOKE
	05:30 - 06:00	0.50	TRP	2	TRIP IN HOLE
4/17/2012	06:00 - 06:30	0.50	DRL	1	ROTATE DRILLF/ 5661T5671 (10'=20 FPH)(278 GPM)(RPM120)(2000PSI)
	06:30 - 07:00	0.50	DRL	2	SLIDE DRILLF/ 5671T 5684(13'=26 FPH)(278GPM)(RPM 75)(2000 PSI)
	07:00 - 07:30	0.50	DRL	1	ROTATE DRILLF/ 5684T5700 (16'=32 FPH)(278 GPM)(RPM120)(2000PSI)
	07:30 - 08:30	1.00	DRL	2	SLIDE DRILLF/ 5700T 5713(13'=13 FPH)(278GPM)(RPM 75)(2000 PSI)
	08:30 - 09:00	0.50	DRL	1	ROTATE DRILLF/ 5713T5737 (24'=48 FPH)(278 GPM)(RPM120)(2000PSI)
	09:00 - 09:30	0.50	DRL	2	SLIDE DRILLF/ 5737T 5742(5'=10 FPH)(278GPM)(RPM 75)(2000 PSI)
	09:30 - 10:00	0.50	DRL	1	ROTATE DRILLF/ 5742T5771 (29'=58 FPH)(278 GPM)(RPM120)(2000PSI)
	10:00 - 10:30	0.50	DRL	2	SLIDE DRILLF/ 5771T 5781(10'=20 FPH)(278GPM)(RPM 75)(2000 PSI)
	10:30 - 11:30	1.00	DRL	1	ROTATE DRILLF/ 5781T5801 (20'=20 FPH)(278 GPM)(RPM120)(2000PSI)
	11:30 - 12:30	1.00	DRL	2	SLIDE DRILLF/ 5801T 5808(7'=7 FPH)(278GPM)(RPM 75)(2000 PSI)
	12:30 - 13:00	0.50	DRL	1	ROTATE DRILLF/ 5808T5821 (13'=26 FPH)(278 GPM)(RPM120)(2000PSI)
	13:00 - 14:00	1.00	DRL	2	SLIDE DRILLF/ 5821T 5839(18'=18 FPH)(278GPM)(RPM 75)(2000 PSI)
	14:00 - 14:30	0.50	DRL	1	ROTATE DRILLF/ 5839T5850 (11'=22 FPH)(278 GPM)(RPM120)(2000PSI)
	14:30 - 15:30	1.00	RIG	1	RIG SERVICE
	15:30 - 16:00	0.50	DRL	1	ROTATE DRILLF/ 5850T5858 (8'=16FPH)(278 GPM)(RPM120)(2000PSI)
	16:00 - 18:00	2.00	DRL	2	SLIDE DRILLF/ 5858T 5882(24'=12 FPH)(278GPM)(RPM 75)(2000 PSI)
	18:00 - 19:30	1.50	DRL	2	SLIDE DRILLF/ 5882 T/5892(10'=6.6FPH)(278GPM)(RPM 75)(2000 PSI)
	19:30 - 20:00	0.50	DRL	1	ROTATE DRILLF/ 5892 T/5916 (24'=48FPH)(278 GPM)(RPM120)(2000PSI)
	20:00 - 21:30	1.50	DRL	2	SLIDE DRILLF/ 5916 T/5934(18'=12FPH)(278GPM)(RPM 75)(2000 PSI)
	21:30 - 22:00	0.50	DRL	1	ROTATE DRILLF/ 5934 T/5943 (9'=18FPH)(278 GPM)(RPM120)(2150PSI)
	22:00 - 23:30	1.50	DRL	2	SLIDE DRILLF/ 5943 T/5958(15'=10FPH)(278GPM)(RPM 75)(2150 PSI)
	23:30 - 00:00	0.50	DRL	1	ROTATE DRILLF/ 5958 T/5978 (20'=40FPH)(278 GPM)(RPM120)(2150PSI)
	00:00 - 02:00	2.00	DRL	2	SLIDE DRILLF/ 5978 /5991(13=6.5FPH)(278GPM)(RPM 75)(2200 PSI)
	02:00 - 06:00	4.00	DRL	1	ROTATE DRILLF/ 5991 T/6180 (189'=47.3FPH)(278 GPM)(RPM120)(2450PSI)
4/18/2012	06:00 - 07:30	1.50	DRL	1	ROTATE DRILLF/ 6180 T/6276 (96'=64FPH)(278 GPM)(RPM120)(2450PSI)
	07:30 - 08:30	1.00	DRL	2	SLIDE DRILLF/ 6276/6282(6'=6FPH)(278GPM)(RPM 75)(2200 PSI)
	08:30 - 09:00	0.50	DRL	1	ROTATE DRILLF/ 6282 /6290 (8'=16FPH)(278 GPM)(RPM120)(2450PSI)
	09:00 - 10:00	1.00	DRL	2	SLIDE DRILLF/ 6290/6300(10'=10FPH)(278GPM)(RPM 75)(2200 PSI)
	10:00 - 11:30	1.50	DRL	1	ROTATE DRILLF/ 6300/6334 (34'=22'.6FPH)(278 GPM)(RPM120)(2450PSI)
	11:30 - 12:30	1.00	DRL	2	SLIDE DRILLF/ 6334/6372(38'=38FPH)(278GPM)(RPM 75)(2200 PSI)
	12:30 - 13:00	0.50	DRL	1	ROTATE DRILLF/ 6372/ 6424 (52'='104FPH)(278 GPM)(RPM120)(2450PSI)
	13:00 - 14:00	1.00	RIG	1	RIG SERVICE AND TOP DRIVE SERVICE
	14:00 - 14:30	0.50	DRL	1	ROTATE DRILLF/ 6421/ 6451 (30'=60'FPH)(278 GPM)(RPM120)(2450PSI)

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/18/2012	14:30 - 15:30	1.00	DRL	2	SLIDE DRILLF/ 6451/ 6466'(15'=15'FPH)(278GPM)(RPM 75)(2200 PSI)
	15:30 - 16:00	0.50	DRL	1	ROTATE DRILLF/ 6466'/ 6478' (12"=24'FPH)(278 GPM)(RPM120)(2450PSI)
	16:00 - 17:00	1.00	DRL	2	SLIDE DRILLF/ 6478 / 6488'(15'=15'FPH)(278GPM)(RPM 75)(2200 PSI)
	17:00 - 18:00	1.00	DRL	1	ROTATE DRILLF/ 6488'/ 6535' (47'=47'FPH)(278 GPM)(RPM120)(2450PSI)
	18:00 - 22:00	4.00	DRL	2	SLIDE DRILLF/ 6535 T/6570'(135'=8.8FPH)(278GPM)(RPM 66)(2200 PSI)
	22:00 - 22:30	0.50	DRL	1	ROTATE DRILLF/ 6570 T/6575' (5'=10FPH)(278 GPM)(RPM120)(2450PSI)
	22:30 - 23:30	1.00	DRL	2	SLIDE DRILLF/ 6675 T6590'(15'=15FPH)(278GPM)(RPM 66)(2200 PSI)
	23:30 - 01:00	1.50	DRL	1	ROTATE DRILLF/ 6590 T/6610 (20'=40FPH)(278 GPM)(RPM120)(2450PSI)
	01:00 - 06:00	5.00	DRL	2	SLIDE DRILLF/ 6610 T/6717(107'=21.4FPH)(66GPM)(RPM70)(2200 PSI)
4/19/2012	06:00 - 07:30	1.50	DRL	2	SLIDE DRILLF/ 6717T/6738(21'=14FPH)(266GPM)(DHRPM 66)(2200 PSI)
	07:30 - 08:00	0.50	DRL	1	ROTATE DRILLF/ 6738 T/6743 (5'=10FPH)(278 GPM)(RPM120)(2450PSI)
	08:00 - 10:30	2.50	DRL	2	SLIDE DRILLF/ 6743T/6768(25'=10FPH)(266GPM)(DHRPM 66)(2200 PSI)
	10:30 - 12:30	2.00	DRL	2	ROTATE DRILLF/ 6768 T/6786 18'=9FPH)(278 GPM)(RPM120)(2450PSI)
	12:30 - 13:30	1.00	TRP	10	TRIP OUT FOR BIT TO 5288, UNABLE TO SLIDE
	13:30 - 15:00	1.50	REAM	1	WASH REAM OUT FROM 5288 TO 5060
	15:00 - 15:30	0.50	CIRC	1	FLOW CHECK FLOWING 20 BBLS/HR, SPOT 25 BBLS OF 13.0 PPG ECD & PUMP SLUG
	15:30 - 17:30	2.00	TRP	10	CONTINUE TRIP OUT FOR BIT
	17:30 - 18:00	0.50	OTH		FUNCTION TEST BOP
	18:00 - 19:30	1.50	TRP	1	BREAK OFF BIT, L/D MUD MOTOR, P/U MUD MOTOR 1.83 ORIENT DIR TOOLS CHECK MWD TEST W/ 209 GPM 420 PSI
	19:30 - 22:00	2.50	TRP	2	M/U BIT & T.I.H TO 4990'
	22:00 - 00:30	2.50	RIG	2	CHANGE OUT GRABBER DIES AND SAVER SUB
	00:30 - 02:30	2.00	CIRC	1	TRIP OUT TO 2800' TRY TO ESTABLISH CIRCULATION LOST RETURN
	02:30 - 04:00	1.50	TRP	2	TRIP IN HOLE TO SHOE @ 5045
	04:00 - 06:00	2.00	CIRC	1	SPOT 70 BBLS LCM PILL @ 15 P/BBLS AFTER PUMPIMG 60 BBLS HAD SOME RETURNS
4/20/2012	06:00 - 08:00	2.00	CIRC	1	CIRC BOTTOM UP @ 5080' & BUILD VOLUME
	08:00 - 09:00	1.00	TRP	2	TRIP IN HOLE F/ 5080' TO 6786'
	09:00 - 10:00	1.00	CIRC	1	CIRCULATE OUT GAS W/ 15' FLARE NO LOSSES
	10:00 - 11:00	1.00	DRL	2	SLIDE DRILLF/ 6786T/6802(16'=16FPH)(266GPM)(DHRPM 69)(2200 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	11:00 - 11:30	0.50	RIG	1	LUBRICATE RIG
	11:30 - 13:30	2.00	RIG	2	CHANGE OUT BLOWER MOTOR ON TOP DRIVE
	13:30 - 14:00	0.50	DRL	1	ROTATE DRILLF/ 6802 T/6817 (15'=30FPH)(266 GPM)(RPM124)(2250PSI)(WOB 15-18)
	14:00 - 15:00	1.00	DRL	2	SLIDE DRILLF/ 6817T/6832(15'=15FPH)(266GPM)(DHRPM 69)(2200 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	15:00 - 16:00	1.00	DRL	1	ROTATE DRILLF/ 6832 T/6857 (22'=22FPH)(266 GPM)(RPM124)(2250PSI)(WOB 15-18)
	16:00 - 17:00	1.00	DRL	2	SLIDE DRILLF/ 6857T/6872(15'=15FPH)(266GPM)(DHRPM 69)(2200 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	17:00 - 19:00	2.00	DRL	1	ROTATE DRILLF/ 6872 T/6929(57'=28.5FPH)(266GPM)(RPM124)(2250PSI)(WOB 15-18)
	19:00 - 21:00	2.00	DRL	2	SLIDE DRILLF/ 6929T/6950(21'=10.5FPH)(266GPM)(DHRPM 69)(2200 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	21:00 - 23:00	2.00	DRL	1	ROTATE DRILLF/ 6950 T/6992(42'=21FPH)(266GPM)(RPM124)(2250PSI)(WOB 15-18)
	23:00 - 23:30	0.50	DRL	2	SLIDE DRILLF/ 6992T/7007(15'=30FPH)(266GPM)(DHRPM 69)(2200 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	23:30 - 00:00	0.50	DRL	1	ROTATE DRILLF/ 7007 T/7025(18'=36FPH)(266GPM)(RPM124)(2250PSI)(WOB 15-18)
	00:00 - 01:30	1.50	DRL	2	SLIDE DRILLF/ 7025T/7043(18'=12FPH)(266GPM)(DHRPM 69)(2200

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/20/2012	00:00 - 01:30	1.50	DRL	2	PSI)(WOB10-15K)(DIFF PRESS 100-175)
	01:30 - 03:00	1.50	DRL	1	ROTATE DRILLF/ 7043 T/7097(54'=36FPH)(266GPM)(RPM124)(2250PSI)(WOB 15-18)
	03:00 - 05:00	2.00	DRL	2	SLIDE DRILLF/ 7097T/7122(25'=12.5FPH)(266GPM)(DHRPM 69)(2200 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	05:00 - 06:00	1.00	DRL	1	ROTATE DRILLF/ 7122 T/7167(45'=45FPH)(266GPM)(RPM124)(2250PSI)(WOB 15-18)
4/21/2012	06:00 - 14:00	8.00	DRL	1	ROTATE DRIL/7167/7466(299'=37.3FPH)(266GPM)(RPM124)(2550PSI)(WOB 15-18)
	14:00 - 14:30	0.50	RIG	1	LUBRICATE RIG & TOP DRIVE
	14:30 - 06:00	15.50	DRL	1	ROTATE DRIL/7466/8067(601'=38.7FPH)(280GPM)(RPM128)(2790PSI)(WOB 15-20)
4/22/2012	06:00 - 12:30	6.50	DRL	1	ROTATE DRIL/8067/8225(158'=24.3FPH)(280GPM)(RPM128)(3100PSI)(WOB 15-20) (MUD LOST @ 8185' 160BBLS)
	12:30 - 13:00	0.50	RIG	1	LUBRICATE RIG & TOP DRIVE
	13:00 - 06:00	17.00	DRL	1	ROTATE DRIL/8225/8876(651'=38.2FPH)(280GPM)(RPM128)(3100PSI)(WOB 15-20)
4/23/2012	06:00 - 09:30	3.50	DRL	1	ROTATE DRIL/8876/8998(122'=34.8FPH)(280GPM)(RPM128)(3150PSI)(WOB 15-20) (MUD LOST @ 8950' 140BBLS)
	09:30 - 10:30	1.00	DRL	2	SLIDE DRILLF/ 8998T/9006(8'=8FPH)(280GPM)(DHRPM 73)(3100 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	10:30 - 14:30	4.00	DRL	1	ROTATE DRIL/9006/9173(167'=41.7FPH)(280GPM)(RPM128)(3150PSI)(WOB 15-20) (MUD LOST 75 BBLS)
	14:30 - 15:00	0.50	RIG	1	LUBRICATE RIG & TOP DRIVE
	15:00 - 16:00	1.00	DRL	1	ROTATE DRIL/9173/9191(18'=18FPH)(280GPM)(RPM128)(3150PSI)(WOB 15-20)
	16:00 - 17:00	1.00	DRL	2	SLIDE DRILLF/ 9191T/9201(10'=10FPH)(280GPM)(DHRPM 73)(3100 PSI)(WOB10-15K)(DIFF PRESS 100-175)
	17:00 - 19:30	2.50	DRL	1	ROTATE DRIL/9201/9268(67'=26.8FPH)(280GPM)(RPM128)(3150PSI)(WOB 15-22)
	19:30 - 20:30	1.00	CIRC	1	CIRCULATE WHILE MIX SLUG & FLOW CHECK PUMP SLUG
	20:30 - 22:30	2.00	TRP	2	P.O.O.H TO CHANGE BIT & MUD MOTOR TO 5061'
	22:30 - 23:00	0.50	CIRC	1	CIRCULATE BOTTOMS UP AT WINDOW, 39 BBLS WATER BACK TO SURFACE 7320 UNITS GAS NO FLARE, SPOT 25 BBL 13.2 ECD PILL, PUMP SLUG
	23:00 - 01:30	2.50	TRP	10	P.O.O.H. FOR BIT,CHECK FLOW AT BHA NO FLOW
	01:30 - 03:00	1.50	TRP	1	CHANGE OUT BIT AND MOTOR, SCRIBE MWD
	03:00 - 06:00	3.00	TRP	10	TRIP IN HOLE TO 2500 & SHOE CIRC BOTTOMS UP TO CLEAR ECD PILL
4/24/2012	06:00 - 06:30	0.50	CIRC	1	CIRCULATE OUT ECD PILL
	06:30 - 08:00	1.50	RIG	6	SLIP & CUT DRILL LINE
	08:00 - 08:30	0.50	RIG	1	LUBRICATE RIG & TOP DRIVE
	08:30 - 09:30	1.00	TRP	2	T.I.H TO 5,910' WELL FLOWING GAIN 30BBLS
	09:30 - 10:30	1.00	CIRC	1	CIRCULATE OUT GAS THUR CHOKE W/30 BBLS OF WATER BACK W/ 20' FLARE
	10:30 - 11:00	0.50	TRP	2	CHANGE OUT ROT HEAD RUBBER
	11:00 - 12:30	1.50	TRP	2	T.I.H TO 9180'
	12:30 - 13:00	0.50	REAM	1	WASH & REAM F/9180' TO 9268' 20' FILL
	13:00 - 16:00	3.00	DRL	1	ROTATE DRIL/9268'/9385(117'=39'FPH)(280GPM)(RPM133)(3450PSI)(WOB 15-20)
	16:00 - 17:00	1.00	DRL	2	SLIDE DRILLF/ 9385'T/9393(8'=8FPH)(280GPM)(DHRPM 73)(3050 PSI)(WOB10-15K)(DIFF PRESS 75-125)
	17:00 - 19:00	2.00	DRL	1	ROTATE DRIL/9393'/9473'(80'=40'FPH)(280GPM)(RPM133)(3450PSI)(WOB 15-20)
	19:00 - 21:00	2.00	DRL	2	SLIDE DRILLF/ 9473'T/9483(10'=5FPH)(280GPM)(DHRPM 73)(3050 PSI)(WOB10-15K)(DIFF PRESS 75-125)

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/24/2012	21:00 - 02:30	5.50	DRL	1	ROTATE DRIL/9483'/9647'(164'=29.8'FPH)(242GPM)(RPM127)(2908PSI)(WOB 15-20)
	02:30 - 03:30	1.00	RIG	1	RECALIBRATE ALL TOP DRIVE SETTINGS
	03:30 - 06:00	2.50	DRL	1	ROTATE DRIL/9647'/9741'(94'=37.6'FPH)(242GPM)(RPM127)(2908PSI)(WOB 15-20)
4/25/2012	06:00 - 16:00	10.00	DRL	1	ROTATE DRIL/9741'/10025'(284'=28.4'FPH)(265GPM)(RPM129)(3250PSI)(WOB 15-20)
	16:00 - 16:30	0.50	RIG	1	LUBRICATE RIG & TOP DRIVE
	16:30 - 02:30	10.00	DRL	1	ROTATE DRIL/100025'/10419'(394'=39.4'FPH)(265GPM)(RPM129)(3250PSI) (WOB 15-20)
	02:30 - 04:30	2.00	CIRC	1	CIRCULATE WORK TIGHT HOLE AT CONNECTION, ATTEMPT TO DRILL MOTOR STALLING, PUMP OUT TWO STANDS, BUILD & PUMP SLUG
	04:30 - 06:00	1.50	TRP	12	TRIP OUT FOR MOTOR STALL
4/26/2012	06:00 - 08:30	2.50	TRP	2	WORK TIGHT SPOT @ 8800' & P.O.O.H TO 5080'
	08:30 - 09:00	0.50	CIRC	1	FLOW CHECK CIRCULATE & SPOT 25 BBLS ECD PILL 12.7 PPG & PUMP SLUG
	09:00 - 12:00	3.00	TRP	2	P.O.O.H BREAK OFF BIT, L/D MUD MOTOR, MWD & P/U NEW MOTOR FUNCTION TEST BOP
	12:00 - 13:00	1.00	TRP	1	SCRIBE MOTOR, MWD & TEST W/ 70 SPM 265 PSI & M/U BIT
	13:00 - 15:00	2.00	TRP	2	T.I.H W/ BHA & DRILL PIPE TO 3000'
	15:00 - 15:30	0.50	CIRC	1	CIRCULATE B/U @ 3000'
	15:30 - 16:30	1.00	TRP	2	T.I.H. TO 5080'
	16:30 - 17:00	0.50	CIRC	1	CIRCULATE OUT ECD PILL 2 5080'
	17:00 - 19:00	2.00	TRP	2	T.I.H TO 8809' FILL PIPE 7500'
	19:00 - 19:30	0.50	REAM	1	WASH & REAM F/8800' TO 8890'
	19:30 - 20:00	0.50	TRP	2	T.I.H TO 10,213
	20:00 - 20:30	0.50	REAM	1	SAFTEY REAM FROM 10,213 TO 10,419
	20:30 - 22:00	1.50	DRL	1	ROTATE DRIL/10,419'/10,500'(81'=54'FPH)(275GPM)(RPM134)(3250PSI) (WOB 15-20)
	22:00 - 22:30	0.50	RIG	1	DAILY RIG SERVICE
	22:30 - 06:00	7.50	DRL	1	ROTATE DRIL/10,500'/10,816'(316'=42'FPH)(275GPM)(RPM134)(3250PSI) (WOB 15-20)
4/27/2012	06:00 - 15:30	9.50	DRL	1	ROTATE DRIL/10,816'/11,258'(442'=46.5'FPH)(265GPM)(RPM130)(3350PSI) (WOB 5-20)
	15:30 - 16:00	0.50	RIG	1	LUBRICATE RIG & TOP DRIVE
	16:00 - 19:00	3.00	DRL	1	ROTATE DRIL/11,258'/11,11,355'(97'=32'FPH)(265GPM)(RPM130)(3350PSI) (WOB 5-20)
	19:00 - 19:30	0.50	OTH		TROUBLE SHOOT MWD NO COMMUINACATION
	19:30 - 00:00	4.50	DRL	1	ROTATE DRIL/11,355'/11,11,500'(145'=32'FPH)(265GPM)(RPM130)(3350PSI) (WOB 5-20)
	00:00 - 02:00	2.00	RIG	2	WORK ON BOTH PUMPS, #1 PUMP REPLACE SUCTION VALVE STEM SHEARED, #2 REPLACE PULSATION DAMPNER GAUGE
	02:00 - 06:00	4.00			ROTATE DRIL/11,500'/11,11586,'(86'=21.5'FPH)(265GPM)(RPM130) (3350PSI) (WOB 5-20)
4/28/2012	06:00 - 17:00	11.00	DRL	1	ROTATE DRIL/11,586'/11,795,'(209'=19'FPH)(265GPM)(RPM130) (3350PSI) (WOB 5-20) DRILL SINGLES AND P/U RE-LOG GAMMA
	17:00 - 18:00	1.00	RIG	7	HELD SAFETY STAND DOWN MEETING WITH ALL CREWS
	18:00 - 19:00	1.00	RIG	7	HELD SAFETY STAND DOWN MEETING WITH ALL CREWS & 3rd PARTY PERSONEL
	19:00 - 22:30	3.50	DRL	1	ROTATE DRIL/11,795'/11,850,'(55'=15.7'FPH)(265GPM)(RPM130) (3350PSI) (WOB 5-20) DRILL SINGLES AND P/U RE-LOG GAMMA
	22:30 - 00:00	1.50	CIRC	1	CIRCULATE WAIT ON ORDERS FOR TD DEPTH, TD CALLED AT 10850, NEED 10,865 FOR CASING

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/28/2012	00:00 - 01:00	1.00	DRL	1	DRILLED 4' TO 10854, MOTOR STALLED, ATTEMPT TO DRILL NO DIFF
	01:00 - 01:30	0.50	CIRC	1	CIRCULATE BUILD AND PUMP SLUG
	01:30 - 05:30	4.00	TRP	2	WIPER TRIP OUT CHNAGE MOTOR BIT, LAY DOWN DIRECTIONAL
	05:30 - 06:00	0.50	CIRC	1	CIRCULATE BOTTOMS UP AT 5554, CIRCULATE OUT WATER AND GAS
4/29/2012	06:00 - 06:30	0.50	CIRC	1	CIRCULATE OUT GAS & WATER
	06:30 - 09:30	3.00	TRP	2	T.I.H B/ CIRC @ 8,500' 10.550'
	09:30 - 10:30	1.00	REAM	1	WASH & REAM F/11,820' TO 11,854' 20' FILL
	10:30 - 12:00	1.50	CIRC	1	PUMP SWEEP& CIRCULATE SPOT WALNUT IN OPEN HOLE FLOW CHECK
	12:00 - 15:00	3.00	TRP	2	P.O.O.H TO 5,520'
	15:00 - 16:00	1.00	CIRC	1	CIRCULATE OUT WATER & GAS SPOT 30 BBLS ECD PILL 12.9 PPG PUMP SLUG FLOW CHECK
	16:00 - 19:00	3.00	TRP	2	P.O.O.H F/ LOGGING
	19:00 - 04:00	9.00	LOG	1	RIG UP OPEN HOLE WIRE LINE LOG QUAD COMBO WITH THRU BIT SOLUTIONS, LOG DEPTH 11,320, RIG DOWN LOGGERS WIRE LINE LOGS
	04:00 - 04:30	0.50	TRP	2	STRAP OD & ID, THRU BIT DEPLOYABLE LOGGING BHA, BIT,BIT SUB,FLOAT SUB, X-O
	04:30 - 06:00	1.50	RIG	8	WORK ON TOP DRIVE, WILL NOT TURN ON THROWING BREAKERS IN SCR HOUSE
4/30/2012	06:00 - 07:30	1.50	RIG	2	TROUBLE SHOOT TOP DRIVE RE-SET BREAKER IN SCR HOUSE
	07:30 - 10:30	3.00	TRP	2	MAKE UP TRU BIT LOGGING TOOLS & T.I.H W/DRILL PIPE RABBIT EVERY STAND
	10:30 - 11:00	0.50	TRP	2	INSTALL ROT HEAD
	11:00 - 11:30	0.50	CIRC	1	CIRCULATE B/U @ 3300'
	11:30 - 12:30	1.00	TRP	2	T.I.H W/DRILL PIPE RABBIT EVERY STAND 4190'
	12:30 - 14:30	2.00	TRP	1	MOVE HWDP TO DRILL SIDE
	14:30 - 17:00	2.50	TRP	2	P/U 33 JTS. 3.5" DRILL PIPE
	17:00 - 18:00	1.00	TRP	2	T.I.H W/DRILL PIPE RABBIT EVERY STAND 6454'
	18:00 - 19:00	1.00	CIRC	1	CIRCULATE ECD PILL & WATER, GAS @ 6454'
	19:00 - 20:30	1.50	TRP	2	T.I.H W/DRILL PIPE RABBIT EVERY STAND 8900'
	20:30 - 21:30	1.00	CIRC	1	CIRCULATE GAS OUT 9100 UNITS
	21:30 - 22:30	1.00	TRP	2	T.I.H W/DRILL PIPE RABBIT EVERY STAND 11,345'
	22:30 - 23:00	0.50	REAM	1	TAG BRIDGE REAM FROM 11,345 TO 11,371
	23:00 - 00:00	1.00	TRP	2	T.I.H W/DRILL PIPE RABBIT EVERY STAND TO 11,778'
	00:00 - 00:30	0.50	REAM	1	SAFTEY REAM FROM 11,778 TO 11,854
	00:30 - 02:00	1.50	CIRC	1	PJSM CIRCULATE MAKE UP SIDE ENTRY TOOLS,PJSM RIG UP LOGGERS SHIEVES
	02:00 - 04:30	2.50	LOG	4	PULL 1 STAND AND LAY DOWN SINGLE, PICK UP SIDE ENTRY ASSEMBLY, MAKE UP WIRE LINE LOGS, RUN LOGS
	04:30 - 06:00	1.50	LOG	4	ATTEMPT TO RELEASE TOOLS FROM WIRE LINE
5/1/2012	06:00 - 08:00	2.00	LOG	1	PULL WIRELINE OUT & LAY DOWN SIDE ENTRY
	08:00 - 10:30	2.50	CIRC	1	WORK PIPE FREE 11,742, SHUT IN WELL WITH 175 PSI ON CASING, CIRCULATE OUT WATER AND GAS, 30 BBL WATER BACK W/25' FLARE, RUN ONE STAND WHILE WAIT ON WIRELINE TO RE-HEAD AND CHECK TOOLS
	10:30 - 11:00	0.50	TRP	2	TOOH TO 11,367
	11:00 - 15:00	4.00	LOG	1	RIG UP SIDE ENTRY & THRU BIT TOOLS, LOG F/11,367 TO BOTTOM, PULL OUT WIRELINE, RIG DOWN TOOLS AND SIDE ENTRY
	15:00 - 15:30	0.50	TRP	2	TIH TO 11,851
	15:30 - 16:30	1.00	CIRC	1	CIRCULATE OUT WATER & GAS RIG DOWN THRU BIT WIRELINE SHIEVES
	16:30 - 19:00	2.50	TRP	2	FLOW CHECK PUMP SLUG POOH WITH WIRE LINE BHA TO 5500
	19:00 - 20:00	1.00	CIRC	1	CIRC OUT WATER & GAS, PUMP 30 BBL 12.9 ECD PILL, PUMP SLUG
	20:00 - 22:30	2.50	TRP	2	TOOH TO WIRELINE BHA
	22:30 - 00:00	1.50	LOG	1	RIG DOWN THRU BIT BHA, PICK UP SIDE TRACK ASSEMBLY AND RIG DOWN
	00:00 - 03:00	3.00	TRP	2	PICK UP BIT, BIT SUB, RIG BHA & TIH TO 3000'

QEP ENERGY

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: FRONTIER

Spud Date: 4/12/2012
Rig Release: 5/3/2012
Rig Number: 2

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/1/2012	03:00 - 04:00	1.00	RIG	6	SLIP CUT DRILL INE 24 WRAPS
	04:00 - 05:00	1.00	TRP	2	TIH TO 5570
	05:00 - 06:00	1.00	CIRC	1	CIRC ECD PILL, WATER & GAS OUT
5/2/2012	06:00 - 08:30	2.50	TRP	2	T.I.H TO 11,845' FILL PIPE @ 9,000' & 10,500'
	08:30 - 09:30	1.00	REAM	1	WASH & REAM F/11,845' TO 11,854' DRILL F/11,854' TO 11,860
	09:30 - 11:00	1.50	CIRC	1	PUMP LCM SWEEP CIRCULATE OUT & SPOT WALL NUT IN OPEN HOLE FLOW CHECK PUMP SLUG
	11:00 - 12:00	1.00	TRP	2	PULL 20 STANDS F/LAYING DOWN DRILL PIPE
	12:00 - 13:00	1.00	TRP	3	PJSM WITH ALL CREWS R/U ROCKY MOUNTAIN L/D TRUCK
	13:00 - 15:00	2.00	TRP	3	LAY DOWN 3.5" DRILL PIPE TO 5510'
	15:00 - 16:00	1.00	CIRC	1	CIRCULATE OUT WATER & GAS SPOT 25 BBLS ECD PILL 12.9 PPG, PUMP SLUG FLOW CHECK
	16:00 - 18:00	2.00	TRP	3	LAY DOWN 3.5" DRILL PIPE TO 1,010
	18:00 - 19:30	1.50	TRP	2	TRIP 31 STANDS FROM DERRICK
	19:30 - 22:30	3.00	TRP	3	LAY DOWN DRILL PIPE AND BHA
	22:30 - 02:30	4.00	CSG	1	PJSM RIG UP CASING CREW
	02:30 - 06:00	3.50	CSG	2	MAKE UP FLOAT SHOE,FLOAT COLLAR, PUMP THRU TO TEST FLOATS AND FILL TOOL, RUN 4.5,11.6,HCP-110 CASING FILL EVERY 25 JTS & CIRC 5 MIN, FILL & CIRC BOTTOMS UP @ 3000
5/3/2012	06:00 - 13:00	7.00	CSG	2	RUN 4 1/2 CASING, FILL EVERY 25 JTS.
	13:00 - 14:00	1.00	CIRC	1	CIRCULATE AND WORK CASING AT 8550.
	14:00 - 18:00	4.00	CSG	2	RUN CASING AND CIRCULATE DOWN CASING FROMM 8550 TO 11857.
	18:00 - 20:00	2.00	CIRC	1	CIRCULATE CASING ON BOTTOM 1.5 X CASING.
	20:00 - 00:30	4.50	CMT	2	PJSM, RIG UP CEMENTERS AND CEMENT 4 1/2 CASING. RAN 287 JTS. OF 4.5, 11.60 LB. ,LT&C, HCP-110 CASING, LANDED AT 11857 RKB. CEMENTED W/ 620 SKS. OF LEAD, 233 SKS. OF TAIL CEMENT, W/ 20 BBL WATER SPACER, AND 20 BBL. SUPER FLUSH. PLUG BUMPED AT 23:00 5 / 02 / 2012. FLOATS HELD. 50 SKS. OF CEMENT TO RES. PIT. RIG DOWN HALLIBURTON
	00:30 - 02:30	2.00	BOP	1	NIPPLE DOWN BOPS , FLOW LINE CLEAN ON MUD PITS
	02:30 - 03:30	1.00	OTH		PJSM RIG UP WINCHS,PICK UP BOPS
	03:30 - 04:00	0.50	CSG	7	SET SLIPS AND CUT CASING OFF
	04:00 - 06:00	2.00	LOC	7	RIG DOWN WINCHS AND CLEAN MUD PITS AND NIPPLE DOWN
5/4/2012	06:00 - 11:00	5.00	LOC	7	NIPPLE DOWN AND CLEAN PITS RELEASE RIG @ 11:00 AM 5/03/2012

QEP ENERGY

Operations Summary Report

Well Name: RWU 14-18B
Location: 18- 7-S 23-E 27
Rig Name: MARTINEZ WELL SERVICE

Spud Date: 4/12/2012
Rig Release:
Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Description of Operations
5/11/2012	-				GAUGE RING AND CBL/VDL/GR/LOG
5/14/2012	06:00 -				INSTALL FRAC HEAD AND TEST FRAC HEAD AND CSG. PERFORATE MV ZONE #1 WILL FRAC ON 5/15/2012
5/15/2012	08:00 - 09:00	1.00			FRAC ZONE #1 (11708-11750') WITH 67500# OF 30/50 SAND PER DESIGN
	09:00 - 10:30	1.50			SET FRAC PLUG AT 11500' AND PERF.GROSS INTERVAL 11080-11288' (6 INTERVALS).
	10:30 - 13:00	2.50			FRAC ZONE #2 WITH 83800# OF SAND--DESIGN WAS FOR 166M#--ZONES WOULD NOT TAKE MORE
	13:00 - 14:30	1.50			SET FRAC PLUG AT 10700' AND PERFORATE GROSS INT.10322-10656' (2 INTRVALS)
	14:30 - 15:30	1.00			FRAC ZONE #3 WITH 64200# OF 3/50 SAND PER DESIGN-SCREEN OUT WITH 700 GAL.OF FLUSH LEFT
	15:30 - 16:30	1.00			SET COMP.BP AT 6000'. BLED OFF WELL AND SI WELL. RD CREWS.
5/16/2012	05:30 - 07:00	1.50	TRAV	1	5/16/2012. CREW TRAVEL
	07:00 - 07:15	0.25	RIG	7	SAFETY MEETING
	07:15 - 08:15	1.00	LOC	4	SPOT IN RIG & EQUIPMENT. RU RIG
	08:15 - 10:30	2.25	BOP	1	CHECK SICP=400. BLEED OFF. ND FRAC VALVE. NU BOPS. RU FLOOR & 2 3/8" TBG EQUIPMENT
	10:30 - 15:00	4.50	TRP	5	TALLY & BHA. RIH W/ MILL, PUMP OFF BIT SUB. START PICK 2 3/8" TBG EQUIPMENT. PICK UP 184 JNTS TAG KILL PLUG @6005'
	15:00 - 16:00	1.00	SEQ	1	R.U. POWER SWIVEL , AND PUMP , STAB WASHINGTON RUBBER, GET CIRCULATION W/ 24 BBLS
	16:00 - 16:30	0.50	DRL	5	DRILL UP KILL PLUG, 1600 PSI ON PUMP , 800 PSI ON CASING
	16:30 - 17:00	0.50	SEQ	1	R.D POWER SWIVEL
	17:00 - 19:00	2.00	TRP	2	CONTINUE TO TALLEY AND RABBIT , RIH W/ 75 JTS, EOT @ 8455' SWIFN, CASING UP SELLS
	19:00 - 20:30	1.50	TRAV	1	TRAVEL TO TOWN
5/17/2012	05:30 - 07:00	1.50	TRAV	1	5/17/2012. CREW TRAVEL
	07:00 - 07:15	0.25	RIG	7	SAFETY MEETING. CHECK SITP=0, FCP=800 PSI ON A 36/64 CHOKE
	07:15 - 09:30	2.25	TRP	2	TALLY & PICK UP 70 JNTS OF 2 3/8" TBG TAG FRAC PLUG @10,700.
	09:30 - 10:00	0.50	SEQ	1	RU SWIVEL & RIG PUMP GET CIRC 2 BBLS
	10:00 - 13:00	3.00	DRL	5	DRILL PLUG OUT IN 15 MINS. STAND SWIVEL BACK. RIH 16 JNTS TAG UP @ 11,230' RU SWIVEL CLEAN OUT 5 MIN. SWIVEL IN 24 JNTS TAG UP ON FRAC PLUG @ 11,500'. DRILL PLUG OUT IN 15 MIN. CLEAN OUT TO PBTD 11,855'
	13:00 - 14:00	1.00	CIRC	1	ROLL HOLE FOR 15 MIN. PUMP 15 GALS OF CHEM TO EOT WITH 45 BBLS
	14:00 - 14:30	0.50	TRP	5	RD SWIVEL. POOH LD 5 JNTS. MAKE UP TBG HANGER
	14:30 - 16:00	1.50	BOP	1	LAND TBG IN WELL HEAD EOT @ 11,704'. RD FLOOR. ND BOPS, NU WELL HEAD. RU FLOW LINE
	16:00 - 16:45	0.75	CIRC	3	DROP BALL DOWN TBG PUMP 40 BBLS TO SEAT BALL. PSI UP TO 2200 PSI TO PUMP BIT OFF. SHUT WELL IN
	16:45 - 18:00	1.25	OTH		RACK OUT EQUIPMENT. GET PREP & READY TO RIG DOWN. CAN NOT RIG DOWN DO TO HIGH WINDS. SDFN
	18:00 - 19:30	1.50	TRAV	1	CREW TRAVEL

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: U-0116

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: RED WASH

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: RW 14-18B

2. NAME OF OPERATOR: QEP ENERGY COMPANY

9. API NUMBER: 43047151780000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078

PHONE NUMBER: 303 308-3068 Ext

9. FIELD and POOL or WILDCAT: RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0659 FSL 0592 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 18 Township: 07.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 7/16/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	✓ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

QEP ENERGY COMPANY REQUESTS THAT THE WILDCAT TAX CREDIT BE APPLIED TO THE RW 14-18B WELL. THIS IS THE FIRST WELL IN THE MESAVERDE POOL WITHIN A ONE MILE(5280') RADIUS (SEE ATTACHED MAP). OFFSET WELLS INCLUDE: RW 41-24A, API #: 43-047-33769, TD: 5970', FORMATION AT TD: GREEN RIVER. RW 24-18B, API #: 43-047-33554, TD: 6000', FORMATION AT TD: GREEN RIVER.

Approved by the Utah Division of Oil, Gas and Mining

Date: September 05, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Valyn Davis	435 781-4369	Regulatory Affairs Analyst

SIGNATURE	DATE
N/A	7/16/2012

RECEIVED: Jul. 16, 2012

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047151780000

See Wildcat Well Determination Statement of Basis (Attached).

RECEIVED: Jul. 16, 2012

DIVISION OF OIL, GAS AND MINING
Wildcat Well Determination
STATEMENT OF BASIS

Applicant: QEP ENERGY COMPANY

Location: SWNW SEC 18 T07S R23E Uintah County, **Utah**

WELL NAME: RW 14-18B **API #:** 43-047-15178

FINDINGS

1. This well was originally completed on December 25, 1956 in the Green River formation. Pipe was set at a Total Depth of 6,359 feet.
2. There are multiple wells within 1 Mile of the subject well that have also produced out of the Green River formation. (Attachment A)
3. The well was plugged March 10, 2009. A permit to re-enter this well was approved on November 16, 2012.
4. This well was re-completed on April 28, 2012 in the **Mesa Verde** formation, to a Total Depth of 11,810 feet.
5. This well was > 1 mile from known production in the **Mesa Verde** formation at the time of recompletion and the start of production on May 17, 2012. (Attachment A)
6. There has been no previous production out of the Mesa Verde formation within a 1-mile radius of this well.

CONCLUSIONS

Based on the findings above the Division has determined the RW 14-18B well was drilled into an unknown area for the **Mesa Verde** formation. The Division finds that this well qualifies for the severance tax exemption under Section 59-5-102(5)(b) for wildcat wells. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35. If the operator disagrees with this determination, the decision may be appealed to the Board of Oil Gas and Mining.

Reviewer(s): Dustin K. Doucet DKD Date: 9/5/2012

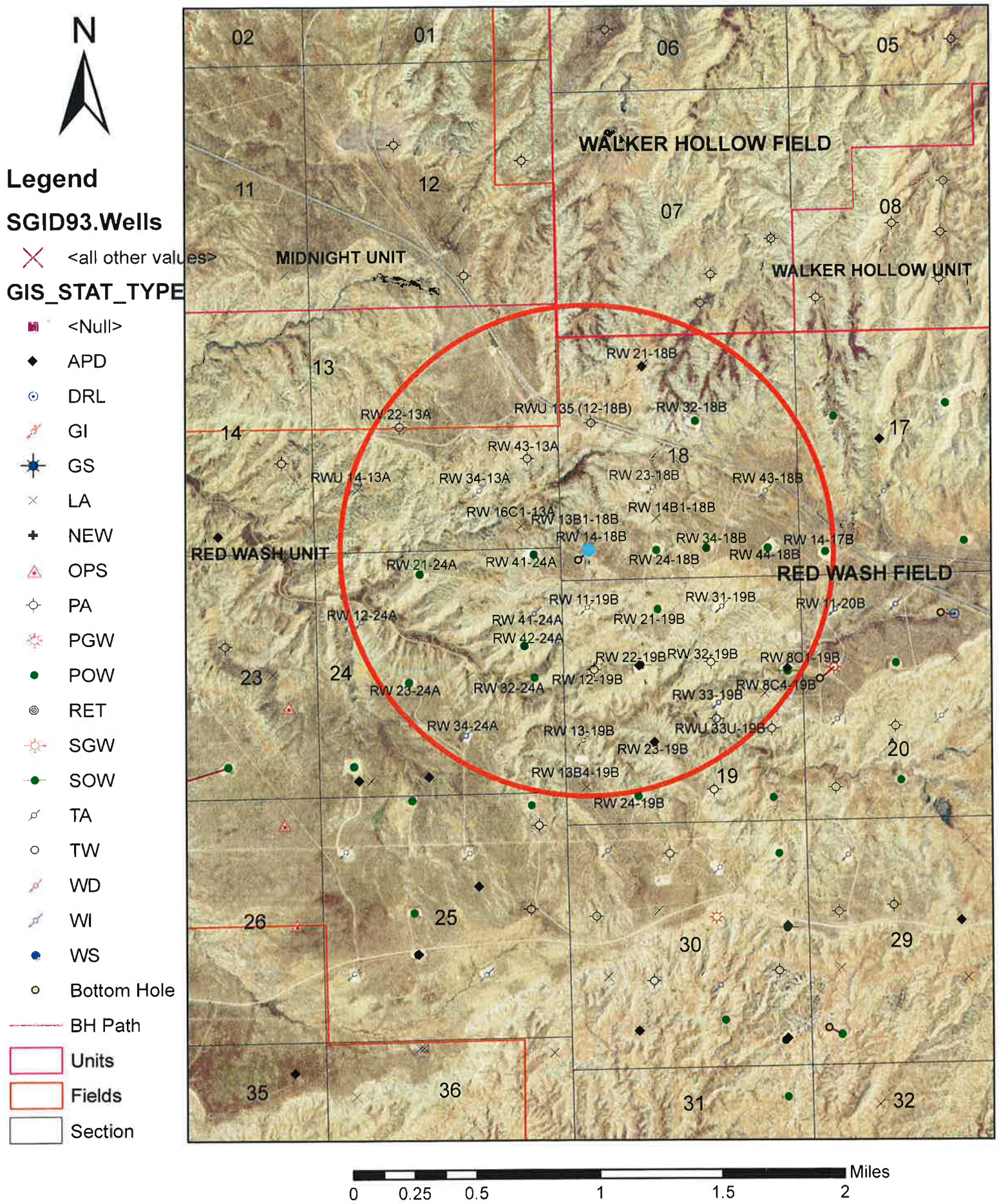
Joshua J. Payne Date: 9/5/2012

CC: Utah State Tax Commission
ATTN: Shandra Winters

ATTACHMENT A

1 Mile Area of Review

API	WELL_NAME	Well Status	QTR	Sect	Town	Range	Cum Oil	Cum Gas	Field Type	Dx From Well(ft)	Rotar Spud	Date TD Reached	Date First Produced	Producing Formation	Depth TD
4304752236	RW 8C1-19B	APD	SENE	19	T07.0S	R23.0E	0	0	D	4555				PROPOSED (MESA VERDE)	0
4304752232	RW 6C1-19B	APD	SENW	19	T07.0S	R23.0E	0	0	D	2492				PROPOSED (MESA VERDE)	0
4304752231	RW 3B4-18B	APD	NENW	18	T07.0S	R23.0E	0	0	D	3769				PROPOSED (MESA VERDE)	0
4304751885	RW 13B4-19B	LA	SWSW	19	T07.0S	R23.0E	0	0	D	4686				NA	0
4304751876	RW 16C1-13A	LA	SESE	13	T07.0S	R22.0E	0	0	D	1394				NA	0
4304751796	RW 13B1-18B	LA	SWSW	18	T07.0S	R23.0E	0	0	D	421				NA	0
4304751795	RW 14B1-18B	LA	SESW	18	T07.0S	R23.0E	0	0	D	1469				NA	0
4304751770	RW 8C4-19B	LA	SENE	19	T07.0S	R23.0E	0	0	D	4479				NA	0
4304751725	RW 23-19B	APD	NESW	19	T07.0S	R23.0E	0	0	D	4008				PROPOSED (MESA VERDE)	0
4304733950	RWU 14-13A	LA	SWSW	13	T07.0S	R22.0E	0	0	D	4677				NA	0
4304733769	RW 41-24A	P	NENE	24	T07.0S	R22.0E	138589	21338	D	1079	4/11/2001	4/21/2001	5/18/2001	GREEN RIVER	5970
4304733765	RW 22-13A	PA	SENW	13	T07.0S	R22.0E	0	0	D	4417	8/14/2001	9/1/2001	10/18/2001	NA	6175
4304733654	RWU 33U-19B	PA	NWSE	19	T07.0S	R23.0E	0	0	D	4177		10/7/2000		NA	3200
4304733594	RW 44-18B	P	SESE	18	T07.0S	R23.0E	54715	13048	D	3531		9/18/2000	11/10/2000	GREEN RIVER	5976
4304733593	RW 34-13A	A	SWSE	13	T07.0S	R22.0E	8940	705	D	2440		10/18/2000	11/27/2000	GREEN RIVER	6089
4304733592	RW 21-24A	P	NENW	24	T07.0S	R22.0E	23214	5263	D	3339	9/24/2000	10/8/2000	11/30/2000	GREEN RIVER	5926
4304733591	RW 12-24A	A	SWNW	24	T07.0S	R22.0E	11441	4273	D	4681	12/3/2000	12/15/2000	1/29/2001	GREEN RIVER	5967
4304733569	RW 42-24A	P	SENE	24	T07.0S	R22.0E	45972	14165	D	2276		9/27/2000	12/9/2000	GREEN RIVER	5901
4304733568	RW 34-24A	A	SWSE	24	T07.0S	R22.0E	20140	106	D	4380		8/12/2000	9/20/2000	GREEN RIVER	5933
4304733567	RW 23-24A	P	NESW	24	T07.0S	R22.0E	79521	5765	D	4393		11/10/2000	1/3/2001	GREEN RIVER	5919
4304733559	RW 22-19B	S	SENW	19	T07.0S	R23.0E	7481	8123	D	2500		9/6/2000	11/11/2000	GREEN RIVER	5907
4304733556	RW 42-19B	S	SENE	19	T07.0S	R23.0E	12036	556	D	4584		6/28/2000	8/24/2000	GREEN RIVER	5826
4304733555	RW 31-19B	A	NWNE	19	T07.0S	R23.0E	3546	0	D	2846		10/16/2000	1/9/2001	GREEN RIVER	5973
4304733554	RW 24-18B	P	SESW	18	T07.0S	R23.0E	112015	23529	D	1335		8/26/2000	10/19/2000	GREEN RIVER	6000
4304733552	RW 11-19B	A	NWNW	19	T07.0S	R23.0E	0	0	D	1137		8/13/2000	9/15/2000	NA	5960
4304733499	RW 33-19B	A	NWSE	19	T07.0S	R23.0E	6514	0	D	3943		5/11/2000	6/5/2000	GREEN RIVER	5800
4304733497	RW 13-19B	A	NWSW	19	T07.0S	R23.0E	9409	11878	D	3752		6/7/2000	7/24/2000	GREEN RIVER	8594
4304733018	RW 32-18B	P	SWNE	18	T07.0S	R23.0E	128463	96802	D	3295		2/19/1998	3/26/1998	GREEN RIVER	5937
4304732982	RW 43-18B	A	NESE	18	T07.0S	R23.0E	0	0	D	3678		4/5/1998		NA	5996
4304732738	RW 14-17B	P	SWSW	17	T07.0S	R23.0E	151559	38752	D	4659		11/15/1997	12/17/1997	GREEN RIVER	5982
4304715258	RW 21-18B	TA	NENW	18	T07.0S	R23.0E	97718	30232	D	3797		4/20/1961	5/2/1961	GREEN RIVER	5875
4304715251	RWU 135 (12-18B)	PA	SWNW	18	T07.0S	R23.0E	366667	439544	D	2488			10/8/1960	GREEN RIVER	5875
4304715244	RW 12-19B	PA	SWNW	19	T07.0S	R23.0E	126015	116833	D	2385		5/12/1960	10/15/1960	GREEN RIVER	5810
4304715240	RW 43-13A	PA	NESE	13	T07.0S	R22.0E	482006	272310	D	2148		3/22/1960	4/1/1960	GREEN RIVER	5825
4304715233	RW 21-19B	P	NENW	19	T07.0S	R23.0E	473070	439314	D	1793		12/19/1959	1/20/1960	GREEN RIVER	5761
4304715229	RW 32-24A	P	SWNE	24	T07.0S	R22.0E	167088	242842	D	2737		10/28/1959	12/16/1959	GREEN RIVER	5755
4304715221	RW 41-24A	A	SENE	24	T07.0S	R22.0E	140511	173681	D	1651		6/18/1959	8/5/1959	GREEN RIVER	5755
4304715210	RW 23-18B	A	NESW	18	T07.0S	R23.0E	47605	39969	D	1771		11/27/1958	12/31/1958	GREEN RIVER	5790
4304715189	RW 34-18B	P	SWSE	18	T07.0S	R23.0E	171564	150136	D	2325		12/18/1957	12/26/1957	GREEN RIVER	6420
4304715178	RW 14-18B	P	SWSW	18	T07.0S	R23.0E	195165	172370	D	0		12/25/1956 - 4/28/2012	1/11/1957 - 5/17/2012	GREEN RIVER - MESA VERDE	6359 - 11810
4304715174	RW 32-19B	PA	SWNE	19	T07.0S	R23.0E	0	0	D	3278				NA	6186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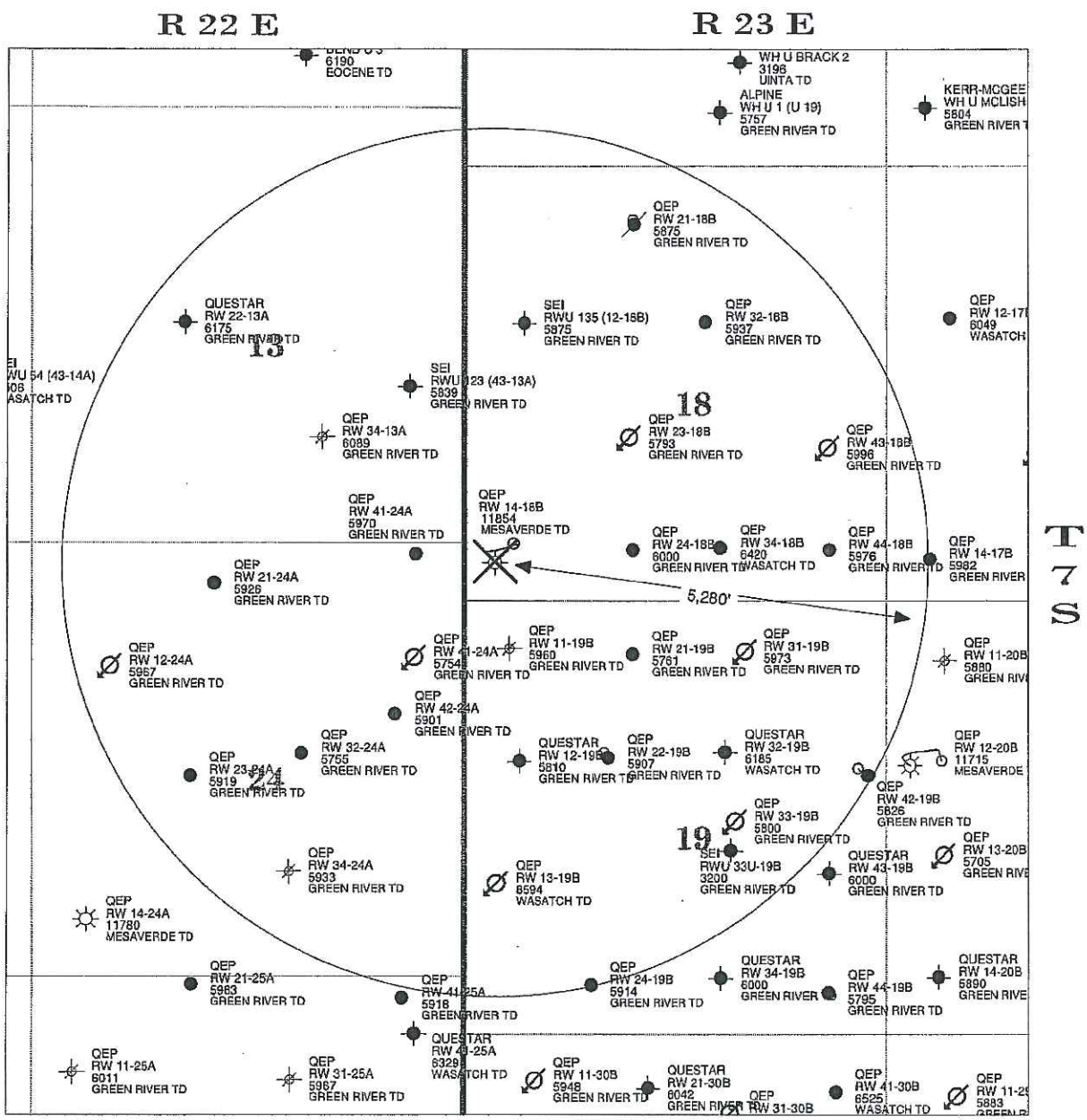
GS
LA
NEW
OPS
PA
PGW
POW
RET
SGW
SOW
TA
TW
WD
WI
WS
Bottom Hole
BH Path
Units
Fields
Section
WALKER HOLLOW FIELD
MIDNIGHT UNIT
WALKER HOLLOW UNIT
RED WASH UNIT
RED WASH FIELD
RW 21-18B
RW 22-13A
RWU 135 (12-18B)
RW 32-18B
RW 43-13A
RWU 14-13A
RW 34-13A
RW 23-18B
RW 43-18B
RW 16C1-13A
RW 13B1-18B
RW 14B1-18B
RW 14-18B
RW 34-18B
RW 14-17B
RW 44-18B
RW 21-24A
RW 41-24A
RW 24-18B
RW 11-19B
RW 31-19B
RW 11-20B
RW 12-24A
RW 41-24A
RW 21-19B
RW 42-24A
RW 22-19B
RW 32-19B
RW 8C1-19B
RW 23-24A
RW 32-24A
RW 12-19B
RW 33-19B
RW 8C4-19B
RW 34-24A
RW 13-19B
RWU 33U-19B
RW 23-19B
RW 13B4-19B
RW 24-19B
02
01
06
05
11
12
07
08
13
14
17
18
23
24
20
19
26
25
30
29
35
36
31
32
Miles
0
0.25
0.5
1
1.5
2



Well Symbol Key

- Location
- Gas
- Oil
- Abd loc.
- D&A
- Inj
- Inj P&A
- Inj SI
- O&G P&A
- Oil P&A
- Gas P&A

N

1:24000

1000 0 1000 2000 3000 ft

1050 17th, Suite 500
Denver, Colorado 80265
303 672-6900

QEP Energy Company

RW 14-18B

Date: 16 July, 2012	Geologist:
Tech:	Geophysicist:
Engineer:	File:...\Uinta\CJO_RAGTaxCR\RW_14_18B.gmp