

Rangely Weber Sand Unit

Well Details:	
STATE & CO	COLTHARP J.E. 9X
State Location	CO - Rio Blanco
NAD83 location:	SWSE Section 35, T2N, R102W, 6TH P.M.
API #	LAT: 40.09359757 LONG: 108.807136
CHEVNO	05-103-08535
	EL1345

Casing Details:	
Type	Depth
KB	5215
GL	5201
16 in. #ft. UNKNOWN	0 - 55' sxs cmt
9 5/8 in. 36 #ft. K-55	0 - 821' 560 sxs cmt
7 in. 23 #ft. K-55	0 - 5230' sxs cmt
7 in. 28 #ft. K-55	5230 - 6531' 775 sxs cmt
Perfs. Top	5732
Perfs. Btm	6382
PBTD	6500
TD	6530

Formation	Depth
Nodular	
Frontier	2895
Frontier Std	
Mowry	
Dakota	3255
Morrison	
Curtis	3920
Entrada	4045
Carmel	4210
Nawajo	4275
Charlie	4850
Shinarump	4952
Moenkopi	5075
Weber	5717

GOC, CALC	5545	FT	PAY
Weber 1a	5717	173	21
Weber 2	5890		
Weber 3a	5897	92	29
Weber 4	5989		
Weber 5a	6021	114	32
Weber 6	6135		
Weber 7a	6160	93	28
Weber 8	6253		
Weber 9a	6280	109	9
Weber 10	6389		
Weber 11a	6409	0	0
		581	117
OWC, CALC	6315		

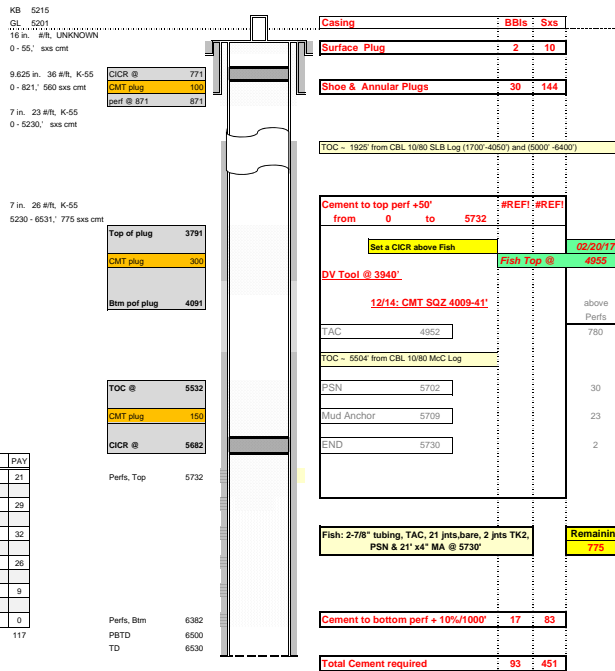
Notes:

- 1-
- 2-
- 3-

COLTHARP JE 9X Current Wellbore

02/01/17

Craig Burger, COGCC @ 970-625-2497 x2



COLTHARP J.E. 9X Cement Schedule, P&A

Cement Plug		Cmt	Cmt	Cmt	50 sxs minimum		
Casing	depth	Top	Btm	Length	Bbls	BBIs	Sxs
Surface Plug							
7" 23#ft	50	0	50	50	0.0393	2	10
9 5/8" 36# x 7"	50	0	0	0	0.0297	0	0
Shoe & Annular Plugs							
7" 28#ft	821	771	871	100	0.0393	4	19
9 5/8" 36# x 7"	821	0	871	871	0.0297	26	125
Intermediate Plug							
7" 23#ft	0 - 5230	3791	4091	300	0.0393	12	57
7" 28#ft	5230 - 6382	5532	5682	150	0.0393	6	29
Intermediate & Weber Plug							
7" 28#ft	Set CIRC - 50' above top perf.	5682	6382	700	0.0382	27	129
Cement to top perf + 50'	Top perf	5732					
Cement to bottom perf + 10%/1000'	Bottom perf	6382					
				Excess =	10%/1000'	17	83
Total Cement required						BBIs	Sxs
						10%/1000'	93 451

Type Cement:	"G" cmt	
Cu Ft / bbl	5.61	cuhbbl 4.84 Sxs / Bbl
Yield, cu ft/Sx	1.16	cuf/Sx
Water Requirement, ggs	4.98	ggs
Cement Weight, ppg	15.6	ppg

On Wed, Feb 22, 2017 at 5:51 AM, Heil, Kevin <kevinheil@chevron.com> wrote:
Mr. Andrews

Sorry for the delay in getting this to you, but here are the details of our P&A plans in writing per our conversation yesterday. This is assuming that we recover the 7" TAC and tailpipe/BHA. If we do not recover everything I will update you with our plan which will be setting the 7" CIRC 50' above the fish top and proceeding from there.

1. Set 7" CIRC at 5,682' (50' above top perforation), test 7" casing to 300 psi. Squeeze Weber perforations and spot 150' of cement on top of CIRC to 5,532'.
a. If casing test fails, hunt for the leak interval and repair with squeeze or spot balanced cement plug. Spot 9 ppg mud above and below leak/cement.
2. Spot 9 ppg mud/fluid from 5,582' to 4,091'
3. Spot 300' balanced cement plug from 4,091' to 3,791' (covers old squeeze from 2014 and DV tool).
4. Spot 9 ppg mud/fluid from 3,791' to 871'.
5. Perforate 50' below 9 5/8" surface casing shoe at 871'
6. Establish circulation or injection rate down 7" production casing while taking returns up 7" x 9 5/8" annulus.
7. Set 7" CIRC at 771'. If circulation is established, circulate cement to surface in 7" x 9 5/8". If unable to circulate, squeeze surface shoe. Spot 100' of cement on top of CIRC to 671'.
8. Spot 9 ppg mud from 671' to 50'
9. Spot 50' cement plug to surface in 7" production casing.
10. Cut off WH and top out if necessary.

Please call or email if you have any questions. I will give Kyle a call this morning and let him know our progress and when we might be ready to start pumping cement.

Thanks

Kevin Heil
Well Site Manager
Chevron MCBU
970-250-9554

DRAFT