

CEMENTING TREATMENT REPORT



TREATMENT NUMBER GH2013003	DATE 2/22/2013
STAGE 2 stage	JOB TYPE longstring

WELL NAME AND NO. Weirich 32-33	LOCATION (LEGAL) T20S R-50Wsec 33	RIG NAME: Patterson UTI 190	CEMENT PUMPER: 23005
FIELD	FORMATION	WELL DATA	BOTTOM
COUNTY Kiowa	STATE CO	API NO. 506106876	FT TOP
RIG FORMAN Dave Martinez	CEMENT SUPER Gary Hessling	BIT SIZE	CSG/Liner Size
		TOTAL DEPTH	WEIGHT
		MUD TYPE	FOOTAGE
		<input type="checkbox"/> BHST	GRADE
		<input type="checkbox"/> BHCT	THREAD
		MUD DENSITY	LESS FOOTAGE (SHOE JOINT(S))
		MUD VISC	Disp. Capacity
		Include Footage From Ground Level To Head In Disp. Capacity	

SPECIAL INSTRUCTIONS	SHOE	DEPTH	STAGE TOOL	DEPTH	TOTAL:
					119.6

Head & Plugs	<input type="checkbox"/> TBG	<input checked="" type="checkbox"/> D.P.	SQUEEZE JOB		
<input type="checkbox"/> Double Box 6	WEIGHT	SIZE	TOOL	DEPTH	
<input type="checkbox"/> Single	GRADE	TAIL PIPE:	SIZE	DEPTH	
<input type="checkbox"/> Swage	THREADS	TUBING VOLUME		BBLs	
<input type="checkbox"/> Knockout	<input type="checkbox"/> New <input type="checkbox"/> Used	CSG VOL BELOW TOOL		BBLs	
	DEPTH	TOTAL		BBLs	

LIFT PRESSURE	1350	psi	NO. of Centralizers	54
PRESSURE LIMIT		psi	BUMP PLUG TO	2750
			WATER QUALITY:	pH
				SG
				TEMP

TIME	PRESSURE	VOLUME PUMPED	JOB SCHEDULED FOR			ARRIVE ON LOCATION	RIG UP	LEFT LOCATION
0001 to 2400	TBG	INCR	TIME:	DATE:	TIME:	TIME:	TIME:	
	CSG	CUM	RATE	FLUID TYPE	DENSITY	DATE:	DATE:	
17:30						2/21/2013	2/21/2013	Arrive on location
8:00								Rig up pumps and bulk equipment (2-22-13)
8:30								Held safety meeting
11:00	3500							Test pumps and lines to 3500 psi. Test good.
11:01	175	35		H2o	8.34			pumped 35 bbls H2o ahead.
11:14	200	19.5	54.5	2	Cmt	15		Mix and pump 19.5 bbls ( 90.5 sks) 15 # cement
11:30	115	128.2	182.7	3	H2o	8.34		drop 1st stage plug and start displacment
12:04	280							Did not land plug rather cut displacment at .5 bbls over calculated displacment of 127.8 per proceedure
12:08								Drop opening bomb and wait for 30 minutes
12:50	1750	1	183.7	1				Open tool start 10 bbls H2o to clear tool
12:55	210	194	377.7	3		12.5		Mixed and pumped 194 bbls (533 sks) 12.5 SDC lead cement
13:45								Lost circulation with 140 bbls lead cement away
14:20	230	66	443.7	3	Cmt	15		Mix and pump 66 bbls (306 sks) 15# surface set tail
14:40								Shut down and dropped closing plug. Start displacment
14:43	140	119.6		3	H2O			At 18 bbls displacement gone pressured up to 1800 psi surged back several time
								was able to regain pump rate of 3bpm at 250 psi for another 6 bbls bridged off @ 23 bbls away
								surge back several time to a max pressure of 4000 Psi. Call job
16:15								rigged down and left location

System Used	No. of Sacks	Yield ft <sup>3</sup> /sk	COMPOSITION OF SYSTEM			SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY	
SDC	533	2.11	25/75 SDC blend 6% P20, 3% S1, 0.25#/sx P29, 0.25#/sx P46 @ 12.5 #/gal			194	12.5
Surface Set	306	1.21	Surface set 25:75 (p:G) + 2% P20, .35% P13, .25 #/sx P46 @ 15 # gal			66	15

CIRCULATION	<input type="checkbox"/> Yes <input type="checkbox"/> No	WASHED CASING DOWN	<input type="checkbox"/> Yes <input type="checkbox"/> No	BREAKDOWN	PSI	FINAL	4000	PSI
DISPLACEMENT VOL.	97.8	BBLs	0	RETURNED TO SURFACE	BEFORE PLUG BUMP	PRESSURE	RATE	0.5 BPM