

CEMENTING TREATMENT REPORT



TREATMENT NUMBER SO2010016	DATE 7/8/2010
STAGE 1	JOB TYPE Surface

WELL NAME AND NO. Lucas 4-16	LOCATION (LEGAL) Sec.16, T31S, R38W	RIG NAME: Pioneer Natural Resources Rig # 3	CEMENT PUMPER: 2305
FIELD Hugoton-Panoma	FORMATION	WELL DATA	BOTTOM
COUNTY Grant	STATE Kansas	API NO. 1506-7217-13	FT TOP
RIG FOREMAN Derrick Berry/Tom Beardsley		BIT SIZE 12 1/4	CSG/Liner Size 8 5/8
CEMENT SUPERVISOR Stan Owens		TOTAL DEPTH 615	WEIGHT 24
		MUD TYPE	FOOTAGE 587.36
		<input type="checkbox"/> BHST	GRADE J-55
		<input type="checkbox"/> BHCT	THREAD LT&C
		MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 42
		MUD VISC	Disp. Capacity 34.7
		Include Footage From Ground Level To Head In Disp. Capacity	
		TYPE	DEPTH
		DEPTH	DEPTH
		TYPE	DEPTH
		DEPTH	DEPTH

SPECIAL INSTRUCTIONS	Head & Plugs	<input type="checkbox"/> TBG	<input type="checkbox"/> D.P.
	WEIGHT	SIZE	TOOL TYPE
	GRADE		DEPTH
	THREADS		TAIL PIPE: SIZE DEPTH
	<input type="checkbox"/> New <input type="checkbox"/> Used		TUBING VOLUME
	DEPTH		CSG VOL BELOW TOOL
			TOTAL
			ANNULAR VOLUME

LIFT PRESSURE 210 psi	BUMP PLUG TO 900 psi	NO. of Centralizers 4	CEMENT TEMPERATURE: 80	WATER QUALITY: 8 pH	320	SG	TEMP 76
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TIME 0001 to 2400	PRESSURE TBG CSG	VOLUME PUMPED INCR CUM	JOB SCHEDULED FOR TIME: 12:30 DATE: 7/8/2010	ARRIVE ON LOCATION TIME: 15:00 DATE: 6/30/2010	RIG UP TIME: 18:00 DATE: 6/30/2010	LEFT LOCATION TIME: 23:00 DATE: 7/1/2010
			RATE	FLUID TYPE	DENSITY	

20:30						Pre job safety meeting.
20:45			0.5	H2O	8.3	Test Pumps and Lines.
20:55	80	20	4	H2O	8.3	Pump H2O ahead.
21:01	60	86	4	CMT	12.5	Mix and pump lead cement @ 12.5 ppg.
21:32	60	33	4	CMT	15	Mix and pump tail cement @ 15 ppg.
21:45						Shut down and drop top plug.
21:46	220	14.6	4	H2O	8.3	Pump displacement.
21:55	900		2	H2O		Bump plug and check floats. (Held OK )
						Call Outs 10 Bbls 60 Psi. 20 Bbls 120 Psi Final 220 Psi. Bumped @ 900 psi.
						Well circulated cement at 5 bbls lead cement away.
						Pumped 45 bbls good cement to the pit.
22:30						Post job safety meeting.

System Used	No. of Sacks	Yield ft <sup>3</sup> /sk	COMPOSITION OF SYSTEM		SLURRY MIXED	
	220	2.06	SDC	BBLs	DENSITY	
	150	1.25	Surface Cement	86	12.5	
				33	15	

CIRCULATION <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	WASHED CASING DOWN <input type="checkbox"/> Yes <input type="checkbox"/> No	RETURNED TO SURFACE <input type="checkbox"/> Yes <input type="checkbox"/> No	BREAKDOWN BEFORE PLUG BUMP PRESSURE 220 PSI	PSI	FINAL 900 PSI
DISPLACEMENT VOL. 34.7 BBLs		45 Bbls.	RATE 2 BPM		