

## CEMENTING TREATMENT REPORT



TREATMENT NUMBER	FG2014014	DATE	4/21/2014
STAGE	2	JOB TYPE	Intervention

WELL NAME AND NO.	San Pablo 11-4 WDW	LOCATION (LEGAL)	NW/NE SEC 4 T15 R67W	WELL NAME:	Pence #31	CEMENT PUMPER:	
FIELD	Raton	FORMATION	RATON	WELL DATA	12 1/4 CSG/Jarret Slat	9 5/8	
COUNTY	LAS ANIMAS	STATE	COLORADO	API NO.	05-071-09W16		
RIG FORMER	Dave Martinez / Tom Beardslee			WELL DATA	12 1/4 CSG/Jarret Slat	9 5/8	
CEMENT SUPPL	Frank L. Gonzales			TOTAL DEPTH	2940	WEIGHT	360
	Mike Vucellio			MUD TYPE		FOOTAGE	2956.13
				<input type="checkbox"/> B-GT		GRADE	1.55
				<input type="checkbox"/> B-CT		THREAD	ST&C
				MUD DENSITY	Shave Joint	64.78	TOTAL
				MUD VISC.	Disp. Capacity	221.5	221.5
				Include Footage From Ground Level To Head In Disp. Capacity			
				<input type="checkbox"/> TYPE		TYPE	SCP / DV
				DEPTH		DEPTH	Top @ 2311.5 - Bottom @ 2345.6
				<input type="checkbox"/> TYPE		TYPE	
				DEPTH		DEPTH	

## SPECIAL INSTRUCTIONS

Lost circulation 3 times during job. Had circulation at end of job.

Personnel:	Jose Madrid, Ronald Trujillo, Don Wilson, J.R. Ortiz, Bruce Green	<input type="checkbox"/> Double Box S	WEIGHT		<input type="checkbox"/> TYPE		TYPE	SCP / DV
Engineer:	Greg Wright	<input type="checkbox"/> Single	GRADE		<input type="checkbox"/> DEPTH		DEPTH	Top @ 2311.5 - Bottom @ 2345.6
		<input type="checkbox"/> Swage	THREADS		<input type="checkbox"/> TYPE		TYPE	
		<input type="checkbox"/> Snodgrass	<input type="checkbox"/> New	<input type="checkbox"/> Used	<input type="checkbox"/> DEPTH		DEPTH	
LIFT PRESSURE	839	psi	BUMP PLUG TO	1300	CEMENT TEMPERATURE:	74.7	ANNULAR VOLUME	
PRESSURE LIMIT	3500	psi	NO. of Centralizers	12	WATER QUALITY:	6 pH	0 FPM	69.5 TEMP
			JOB SCHEDULED FOR	14:00	DATE:	4/21/2014	TIME:	16:25
			ARRIVE ON LOCATION	14:15	DATE:	4/21/2014	TIME:	16:25
			LEFT LOCATION	0:10	DATE:	4/22/2014	TIME:	0:10

TIME (HH:MM)	THRO	CSG	VOLUME PUMPED INCR	CUM	NO. of Centralizers	FLUID TYPE	DENSITY	DESCRIPTION
17:25								Safety meeting
17:48			3	3	1	H2O		Load Lines
17:50		1500	0.5	3.5	1	H2O	8.3	Pressure Test
17:55		78	215	238.5	4.2	H2O	8.3	Water Ahead
18:23		60			4.1	H2O	8.3	1st. Call Out
18:47		50			4.1	H2O	8.3	2nd. Call Out
18:55		70	46	284.5	4.1	Cmt.	13.7	Pump 1st. Stage Cement @ 13.7 PPG ( 175 Sks. )
						Cmt.	13.7	Start 13.9, 20b-13.7, 40b-13.6
19:13						H2O	8.3	DROP PLUG
19:15		20	226.5		3	H2O	8.3	Pump Displacement
19:31		85		359.5	5	H2O	8.3	1st. Call Out
19:46		84		444.5	5	H2O	8.3	2nd. Call Out
20:00		30		504.5	3	H2O	8.3	3rd. Call Out
20:12		80			1	H2O	8.3	Final Lift
20:15		1014			1	H2O	8.3	Bump Plug
			1.5	506	1.5	H2O	8.3	1045 PSI-1200PSI-1400PSI-1611 PSI - open ECP
20:27						H2O	8.3	Drop Bomb - Wait 15 Minutes
20:42		748			1	H2O	8.3	Open DV Tool
20:45		30	64	570		H2O	8.3	Pump Water Ahead
21:21		35	242	812		H2O	8.3	Pump 2nd. Stage Cement @ 13.5 PPG. ( 957 Sks. )
System Used	No. of Sacks	Yield P/gal	COMPOSITION OF SYSTEM					SLURRY MIXED
50/50	175	1.42	Class G.Poz, P167, PK5, P154, P046					BBLs
50/50	957	1.48	Class G.Poz, P167, PK5, P154, P046					DENSITY
								46
								242
								13.7
								13.5

CIRCULATION	YES	WASHED CASING DOWN	NO	BREAKDOWN	78 PSI	FINAL	2290	PSI
DISPLACEMENT VOL.	456.7	BBLs	RECEIVED TO SURFACE	BEFORE PLUG BUMP	875	PSI	RATE	4 BPM