CEMENTING TREATMENT REPORT

PIONEER NATURAL RESOURCES

TREATMENT NUMBER	DATE
JM2012013	7/2/2013
STAGE	**JOB TYPE**
2	Plug & Abandon

WELL NAME AND NO.	LOCATION (LEGAL)	
Maximus 12-2	SWNW Sec 2 T33S R68W	
FIELD	**FORMATION**	
Raton Basin	Raton/Vermejo	
COUNTY	**STATE**	**API NO.**
Las Animas	Colorado	05-071-09685

RIG NAME: Coil Unit Truck # 21004 Trailer # 17004

CEMENT PUMPER: 23004

RIG FORMAN: David Baca

CEMENT SUPER: Jose Madrid

Michael Vecellio

SPECIAL INSTRUCTIONS: Frank Gonzales, Gary Hessling, JR Ortiz, Don Wilson, Bruce Green, Ronnie Trujillo, Barry Clemmensen

WELL DATA			BOTTOM		FT	TOP		FT
BIT SIZE		CSG/Liner Size						
TOTAL DEPTH		WEIGHT						
MUD TYPE		FOOTAGE						
☐ BHST		GRADE						
☐ BHCT		THREAD						
MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)						TOTAL:
MUD VISC		Disp. Capacity						0

Include Footage From Ground Level To Head In Disp. Capacity

FLOAT	TYPE		Stage Tool	TYPE		
	DEPTH			DEPTH		
SHOE	TYPE			TYPE		
	DEPTH			DEPTH		

Head & Plugs		☐ TBG ☐ D.P.	SQUEEZE JOB	
		Size 2" Coil	TOOL	TYPE
☐ Double Box 6	WEIGHT	3.6# per foot		DEPTH
☐ Single	GRADE	Coil Tubing	TAIL PIPE:	SIZE / DEPTH
☐ Swage	THREADS		TUBING VOLUME	BBLs
☐ Knockout	☐ New ☐ Used		CSG VOL BELOW TOOL	BBLs
	DEPTH	847	TOTAL	BBLs

LIFT PRESSURE	900	psi		CEMENT TEMPERATURE:		ANNULAR VOLUME		BBLs
PRESSURE LIMIT	1500	psi	BUMP PLUG TO	WATER QUALITY:	7 pH	0 PPG	58	TEMP
			NO. of Centralizers					

TIME	PRESSURE		VOLUME PUMPED		JOB SCHEDULED FOR		ARRIVE ON LOCATION		RIG UP		LEFT LOCATION	
0001 to 2400	TBG	CSG	INCR	CUM	TIME:	DATE:	TIME: 11:30	DATE: 7/2/2013	TIME: 11:45	DATE: 7/2/2013	TIME: 16:30	DATE: 7/2/2013

TIME	PRESSURE TBG	PRESSURE CSG	VOLUME PUMPED INCR	VOLUME PUMPED CUM	RATE	FLUID TYPE	DENSITY	
11:30								Arrive on Location
11:45								Rig Up
12:15								Tailgate Safety Meeting
12:28	50		23.5	23.5	2	H2O	8.3	Load Lines and Casing
12:43	1500		1	24.5	1	H2O	8.3	Pressure Test 1500 psi, Test OK
12:45								Coil in Hole to 847'
12:57	1150		2	26.5	2	H2O	8.3	Circulate Hole
12:58	1200		25	51.5	1	CMT	15.8	Mix and Pump (122 sacks) 15.8 Class G cement
13:22	1000		24.5	76	1	H2O	8.3	Started Displacement Circulated cement at 19 bbls away
13:25	1000							Call out displacement, 10 bbls 1bpm 1000 psi, 18 bbls 1 bpm 900 psi, 22 bbls .5bpm 800 psi
13:48	800							End Displacement
15:30	0		2	78	1	H2O	8.3	Clear lines to top off
15:32	0		2.5	80.5	1	CMT	15.8	Pump Cement thru 1" (12 sacks) 15.8 Class G cement
15:40			40	120.5				Washed up pump and lines, rigged down, left location

System Used	No.of Sacks	Yield ft³/sk	COMPOSITION OF SYSTEM	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
Class G	134	1.15	Class G cement w/ 0.25% P65 Dispersant	27.5	15.8

CIRCULATION	☑ Yes ☐ No	WASHED CASING DOWN	☐ Yes ☑ No	BREAKDOWN	PSI	FINAL	800 PSI
DISPLACEMENT VOL.	24.5 BBLS	RETURNED TO SURFACE	Yes	BEFORE PLUG BUMP PRESSURE	PSI	RATE	1 BPM