CEMENTING TREATMENT REPORT

PIONEER NATURAL RESOURCES

TREATMENT NUMBER JM2013029	**DATE** 8/6/2013
STAGE 1	**JOB TYPE** P&A

WELL NAME AND NO. Lorencito 7-13	**LOCATION (LEGAL)**	
FIELD Raton - Lorencito	**FORMATION**	
COUNTY Las Animas	**STATE** Colorado	**API NO.**

RIG NAME: PPS Coil

CEMENT PUMPER: 23005

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		

RIG FORMAN: Galen Muncy

CEMENT SUPER: Jose Madrid

SPECIAL INSTRUCTIONS
Crew Berry W. Bruce G.

Head & Plugs		☑ TBG ☐ D.P.	SQUEEZE JOB	
		SIZE 2" coil	TOOL	TYPE
☐ Double Box 6	**WEIGHT**			DEPTH
☐ Single	**GRADE**		**TAIL PIPE:** 2" SIZE	DEPTH 722'
☐ Swage	**THREADS**		**TUBING VOLUME**	23.8 BBLs
☐ Knockout	☐ New ☐ Used		**CSG VOL BELOW TOOL**	BBLs
	DEPTH	9000 ft coil	**TOTAL**	BBLs
CEMENT TEMPERATURE:			**ANNULAR VOLUME**	BBLs

LIFT PRESSURE	1400	psi		**WATER QUALITY:**	7	**pH**		**SG**	**TEMP**
PRESSURE LIMIT	2000	psi	**BUMP PLUG TO**						
			NO. of Centralizers						

TIME 0001 to 2400	PRESSURE TBG	PRESSURE CSG	VOLUME PUMPED INCR	VOLUME PUMPED CUM	RATE	FLUID TYPE	DENSITY	
					JOB SCHEDULED FOR TIME: 15:00 DATE 8/6/2013			**ARRIVE ON LOCATION** TIME: 14:30 DATE: 8/6/2013 / **RIG UP** TIME: 14:35 DATE: 8/6/2013 / **LEFT LOCATION** TIME: 18:25 DATE: 8/6/2013
14:30								ARRIVE ON LOCATION
14:35								Rig Up Pumps And Lines
15:00								Held Safety Meeting
15:18		25	7		1	H20	8.3	Load Casing with H20
15:25		237	2	9	1	H20	8.3	Test Casing to 300psi attempted 2 times pressure fell back to 230psi
15:30								Coil got on well and to run in hole
15:53	800		25	34	2	H20	8.3	While Coil Running in Hole Pumped 25bbls H20
16:08								Coil Tag Plug at 722'
16:09		269	2	36	1	H20	8.3	Again attempted to pressure up to 300psi pressure drop to 269psi Call was made got ok to pump cement
16:32	1200		18	54	2	CMT	15.8	at 720' pumped 18bbls (90 sk) 15.8ppg
16:55	1800		21	75	2	H20	8.3	Displace with 21bbls Got cement to surface. We shut down Coil to pull up to surface
17:16	128		2.75	77.75	1.5	H20	8.3	At Surface Finished Final 2.75bbls of Displacment
17:23			30	107.75				Switched Cement Pump to Washed Up pumps and Lines
17:45								Coil Off Well Cement 2' From Surface No Top Off Needed
17:55								Rig Down Left Location

System Used	No.of Sacks	Yield ft^3/sk	COMPOSITION OF SYSTEM	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
Class G	90	1.15	Class G	18	15.8

CIRCULATION	☑ Yes ☐ No	**WASHED CASING DOWN**	☐ Yes ☑ No	**BREAKDOWN**	**PSI**	**FINAL** 128	**PSI**
DISPLACEMENT VOL.	23.8 **BBLS**	**RETURNED TO SURFACE** yes		BEFORE PLUG BUMP **PRESSURE**	**PSI**	**RATE**	**BPM**