CEMENTING TREATMENT REPORT

PIONEER NATURAL RESOURCES

TREATMENT NUMBER GH2012021	**DATE** 9/20/2012
STAGE 2 plugs	**JOB TYPE** P&A

WELL NAME AND NO. Furu 23-6V	**LOCATION (LEGAL)** NE/SW Sec 6 T 33S R 67W	**RIG NAME:**
FIELD Raton	**FORMATION**	**CEMENT PUMPER:** 2304
COUNTY Las Animas	**STATE** CO	**API NO.** 05-071-08270

RIG FORMAN: Eddie Morris

CEMENT SUPER: Gary Hessling

SPECIAL INSTRUCTIONS

Cement production casing

Crew on location: Green, Madrid, Vercellio, Ortiz, Hessling

WELL DATA			**BOTTOM**	**FT**	**TOP**		**FT**
BIT SIZE		**CSG/Liner Size**	5 1/2				
TOTAL DEPTH	2200	**WEIGHT**	17				
MUD TYPE		**FOOTAGE**	2200				
☐ 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.	plug to abondon	
	SIZE			TOOL TYPE	CIBP
☐ Double Box 6	**WEIGHT**			DEPTH	2200
☐ Single	**GRADE**			**TAIL PIPE:** SIZE	DEPTH
☐ Swage	**THREADS**			**TUBING VOLUME**	BBLs
☐ Knockout	☐ New	☐ Used		**CSG VOL BELOW TOOL**	BBLs
	DEPTH			**TOTAL**	BBLs
CEMENT TEMPERATURE:				**ANNULAR VOLUME**	BBLs
WATER QUALITY:		**pH**		**SG**	**TEMP**

LIFT PRESSURE	psi		
PRESSURE LIMIT 500	psi	**BUMP PLUG TO**	
		NO. of Centralizers	

JOB SCHEDULED FOR **TIME:** 8:00 **DATE:** 9/20/2012

ARRIVE ON LOCATION **TIME:** 7:45 **DATE:** 9/20/2012

RIG UP 8:30 **DATE:** 9/20/2012

LEFT LOCATION **TIME:** 12:30 **DATE:** 9/20/2012

TIME 0001 to 2400	PRESSURE TBG	PRESSURE CSG	VOLUME PUMPED INCR	VOLUME PUMPED CUM	RATE	FLUID TYPE	DENSITY	
7:45								Arrive on location 07:45 Held safety meeting @ 9:00
9:13		60	51		3	H2o	8.34	51 bbls H2o to load casing
9:32		500	1	52	1	H2o	8.34	Test pumps and lines and CIBP to 500 PSI test good
9:44		150	2	54	2	Cmt	15.8	Mix and pump 2 bbls (10 sks) 15.8 Cmt
9:45		80	11.5	65.5	3	H2o	8.34	Displace with 11.5 bbls H2o
9:55								POOH to 660'
10:30		130	8.5	74	3	Cmt	15.8	Mix and pump 8.5 bbls (41.5 sks)
10:33		60	1.5	75.2	2	H2o	8.34	Displace with 1.2 bbls H20
10:40								POOH to 300'
10:51		172	7.5	82.2	2	Cmt	15.8	Mix and pump 7.5 bbls (36.6 sks) 15.8 Cmt to surface
								Rig down pull slips and check for cement in surface casing
10:30		20	5.5	87.7	1	H2o	8.34	9-24-12 RIH 1" tubing to 50' load hole with 5.5 bbls H2o
10:45		30	3.5	91.2	0.5	Cmt	15.8	Mix and pump 3.5 bbls (17 sks) 15.8 Cmt in annulus of 8-5/8 and 5.5 to surface top off 5.5
10:30								Rig down and leave location

System Used	No.of Sacks	Yield ft^3/sk	COMPOSITION OF SYSTEM	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
Class G	113	1.15	Glass G, calcium cholride	21.5	15.8
			113 Sacks Class G Cement		
			27 lbs CDI-26 Dispersant		

CIRCULATION ☑ Yes ☐ No	**WASHED CASING DOWN** ☐ Yes ☐ No	**BREAKDOWN**	**PSI**	**FINAL**	**PSI**
DISPLACEMENT VOL.	**BBLS**	**RETURNED TO SURFACE** 0	BEFORE PLUG BUMP **PRESSURE**	**PSI**	**RATE** **BPM**