CEMENTING TREATMENT REPORT

PIONEER NATURAL RESOURCES

TREATMENT NUMBER	DATE
FG2013033	8/27/2013
STAGE 1	**JOB TYPE** Misc. Pump (1 inch Top Off)

WELL NAME AND NO.	LOCATION (LEGAL)	
Scott 21-4	4-32S-67W	
FIELD Raton- Spanish Peaks	**FORMATION**	
COUNTY Las Animas	**STATE** COLORADO	**API NO.** 05-071-07685

RIG NAME: N/A

CEMENT PUMPER: 23004

WELL DATA			BOTTOM	FT	TOP		FT
BIT SIZE	12 1 /4	**CSG/Liner Size**	8 5 / 8				
TOTAL DEPTH		**WEIGHT**	24#				
MUD TYPE		**FOOTAGE**					
☐ BHST		**GRADE**	K-55				
☐ BHCT		**THREAD**	STC				
MUD DENSITY		SHOE JOINT(S)					TOTAL:
MUD VISC		**Disp. Capacity**					0

Include Footage From Ground Level To Head In Disp. Capacity

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

RIG FORMAN: Vince Santievan

CEMENT SUPER: Frank L. Gonzales

SPECIAL INSTRUCTIONS

Personel: Jose Madrid ,Mike Vecellio, Anthony Apodaca

Head & Plugs		☑ TBG	☐ D.P.	SQUEEZE JOB	
		SIZE	1	TOOL TYPE	
☐ Double Box 6	**WEIGHT**	N/A		DEPTH	
☐ Single	**GRADE**	N/A		**TAIL PIPE:** SIZE	DEPTH
☐ Swage	**THREADS**	N/A		**TUBING VOLUME**	BBLs
☐ Knockout ☑ New ☐ Used				**CSG VOL BELOW TOOL**	BBLs
	DEPTH	Tagged @ 10'		**TOTAL**	BBLs
CEMENT TEMPERATURE:				**ANNULAR VOLUME**	BBLs
WATER QUALITY:		7 **Ph**		0 **PPG** 80	**TEMP**

LIFT PRESSURE	N/A	psi			
PRESSURE LIMIT	N/A	psi	**BUMP PLUG TO**	N/A	
			NO. of Centralizers	N/A	

TIME	PRESSURE		VOLUME PUMPED				
0001 to 2400	TBG	CSG	INCR	CUM	RATE	FLUID TYPE	DENSITY
9:10							
9:30	0		1	1	0.5	H2O	8.3
9:49	0		1	2	0.5	Cmt.	15.8
9:52			0.5	2.5	0.5	Cmt.	15.8
9:55			2.5	5	0.5	Cmt.	15.8
			35	40	4	H2O	8.3
10:10							

JOB SCHEDULED FOR TIME: 10:00 Date: 8/27/2013

ARRIVE ON LOCATION TIME: 9:05 DATE: 8/27/2013

RIG UP TIME: 9:10 DATE: 8/27/13

LEFT LOCATION TIME: 10:15 DATE: 8/27/2013

9:10	Safety meeting
9:30	Water Ahead
9:49	Pump Cement @ 15.8 PPG - (25 Sks.)
9:52	Pull 1 inch and Top Off casing
9:55	Pumped to Pit
	Wash up Pump and Lines
10:10	RIG DOWN

System Used	No.of Sacks	Yield ft^3/sk	COMPOSITION OF SYSTEM	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
Neat G	25	1.15	Class G Cement	5	15.8

CIRCULATION	yes	**WASHED CASING DOWN**	no	**BREAKDOWN**	30 **PSI**	**FINAL**	30 **PSI**
☐ Yes ☐ No		☐ Yes ☐ No	**RETURNED TO SURFACE**	BEFORE PLUG BUMP			
DISPLACEMENT VOL.	N/A **BBLS**		N/A	**PRESSURE**	N/A **PSI**	**RATE**	1 **BPM**