CEMENTING TREATMENT REPORT

PIONEER NATURAL RESOURCES

TREATMENT NUMBER	FG2013014
DATE	7/13/2013
STAGE	1
JOB TYPE	Surface

WELL NAME AND NO.	Jarvis ATU1	LOCATION (LEGAL)	
FIELD	Hugoton/Panoma	FORMATION	Glorieta
COUNTY	Grant	STATE	Kansas
API NO.			

RIG NAME:

CEMENT PUMPER: 23004

WELL DATA			BOTTOM		FT	TOP	FT
BIT SIZE	12 1 /4	CSG/Liner Size	8 5 / 8				
TOTAL DEPTH	700	WEIGHT	24#				
MUD TYPE		FOOTAGE	676.37				
☐ BHST		GRADE	J-55				
☐ BHCT		THREAD	STC				
MUD DENSITY		SHOE JOINT(S)	42.26				TOTAL:
MUD VISC		Disp. Capacity	40.3				40.3

Include Footage From Ground Level To Head In Disp. Capacity

RIG FORMAN: Kevin Swafford

CEMENT SUPER: Frank L. Gonzales

Mike Vecellio

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

SPECIAL INSTRUCTIONS

Head & Plugs: ☑ TBG ☐ D.P.

☐ Double Box 6 ☐ Single ☐ Swage ☐ Knockout

SIZE	2 7/8		
WEIGHT	6.4		
GRADE	J-55		
THREADS	EUE		
☐ New	☑ Used		
DEPTH			

SQUEEZE JOB

TOOL	
TYPE	
DEPTH	

Personnel; J.R. Ortiz,Ronald Trujillo, Eric Wheeler, Robert Ashe

TAIL PIPE:	SIZE		DEPTH		
TUBING VOLUME			BBLs		
CSG VOL BELOW TOOL			BBLs		
TOTAL			BBLs		
ANNULAR VOLUME			BBLs		

LIFT PRESSURE	244	psi			
PRESSURE LIMIT	1000	psi	BUMP PLUG TO	800	
			NO. of Centralizers	5 + 1 basket	

CEMENT TEMPERATURE:						
WATER QUALITY:		Ph		PPG		TEMP

ARRIVE ON LOCATION				RIG UP				LEFT LOCATION			
TIME:	22:15	DATE:	7/12/2013	TIME:	11:40	DATE:	7/12/2013	TIME:	3:00	DATE:	7/13/2013

TIME 0001 to 2400	PRESSURE TBG	PRESSURE CSG	VOLUME PUMPED INCR	VOLUME PUMPED CUM	RATE	FLUID TYPE	DENSITY	
0:15								Safety meeting
0:58		1000	2	2	1	H2O	8.3	Pressure Test
0:59		20	43	45	4	H2O	8.3	Pump Water Ahead
1:09		100	113	158	4	H2O	15	Pump Cement @ 15 PPG
1:44						Cmt.		DROP PLUG
1:45		30	40.3		4	H2O	8.3	Pump Displacement
1:48		125		170	4	Cmt.	8.3	1ST. Call Out
1:51		200		182	4	Cmt.	8.3	2nd. Call Out
1:54		200		194	4	H2O	8.3	3rd. Call Out
1:58		240		198.3	2	H2O	8.3	Final Lift
1:59		1000				H2O	8.3	Bump Plug
2:10								PLUG HELD
			50	248.3	4	H2O	8.3	Wash Up Pump and Lines
2:30								RIG DOWN

System Used	No.of Sacks	Yield ft^3/sk	COMPOSITION OF SYSTEM	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
Surf. Set	526	1.21	Class G,Pozz,S1,P29,P46	113	15

CIRCULATION	yes	WASHED CASING DOWN	no	BREAKDOWN	20 PSI	FINAL	1000 PSI
☑ Yes ☐ No		☑ Yes	RETURNED TO SURFACE ☐ No	BEFORE PLUG BUMP			
DISPLACEMENT VOL.	40.5 BBLS		40	PRESSURE	240 PSI	RATE	4 BPM

CEMENTING TREATMENT REPORT (PAGE 2)

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FG2013014	7/13/2013
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1	Surface

WELL NAME AND NO. Jarvis ATU1	**LOCATION (LEGAL)**	**RIG NAME:**	**CEMENT PUMP:** 23004
FIELD Hugoton/Panoma	**FORMATION** Glorieta	**RIG FOREMAN:** Kevin Swafford	**CEMENT SUPERVISOR:** Frank L. Gonzales
COUNTY Grant	**STATE** Kansas / **API NO.**	**ARRIVE ON LOCATION** **TIME:** 22:15 **DATE:** 7/12/2013	**RIG UP** **TIME:** 11:40 **DATE:** 7/12/2013 / **LEFT LOCATION** **TIME:** 3:00 **DATE:** 7/13/2013

JOB SCHEDULED FOR **TIME:** 22:30 **DATE:** 7/12/2013

TIME	PRESSURE		VOLUME PUMPED		RATE	FLUID TYPE	DENSITY	COMMENT
0001 to 2400	TBG	CSG	INC	CUM				

JOB SUMARY:

ADDITIONAL NOTES: