CEMENTING TR	EATMENT	REPORT			DIC	DNEER					TREATMENT NUMI GH	BER		DATE	7/30/2013				
					NATURA	AL RESOURCES					STAGE	ЈОВ ТҮ	PE	longstring			-		
WELL NAME AND NO.					LOCATIO	N (LEGAL)	RIG NAME:			1	CEMENT PUMPER:			longstring					
Schmidt ATU 1 221' FNL,& 222' F FIELD FORMATION					L,& 222' FWL Sec 23, T3	30S, R 38W	WELL DATA		Trinidad	drilling Rig 216	BOTTOM	r –		FT	тор	23004	FT		
							BIT SIZE	-		CSG/Liner Size	5 1/2								
COUNTY			STATE	API NO.		TOTAL DEP	тн	3000	WEIGHT	15.5									
		Grant Co				KS		MUD TYPE			FOOTAGE	2975.9							
				Same Mandia			BHST		-	GRADE									
RIG FORMAN Dave Mai				Jave Martine	SZ		BHCT MUD DENSI	T V	-	THREAD LESS FOOTAGE SHOE JOINT(S)	42.22					-	TOTAL:		
CEMENT SUPER Gary Hessling						MUD DENSI MUD VISC	TY		SHOE JOINT(S) Disp. Capacity	42.22 69						69			
CEMENT DOT EX						8			e From Ground	Level To Head In		07						0,7	
												loc	TYPE						
l-												Stage Tool	DEPTH TYPE						
SPECIAL INSTRUCTIONS Cement production casing								DEPTH					DEPTH						
								Head & Plugs			SIZE	⊉ D.P.		TYPE		SQUEE	EZE JOB		
								Double B	ox 6	WEIGHT	SIZE		TOOL	DEPTH					
								Single		GRADE			TAIL PIPE:			SIZE		DEPTH	
								Swage	Swage THREADS TUBING VOLUME BBLs										
					1			Knockout								BBLs			
LIFT PRESSURE PRESSURE LIMI	r		750	psi	BUMP PLU	IC TO	1750	CEMENT TH	MPEDATID	DEPTH F.		TOTAL ANNULAR VOLUME					BBLs BBLs		
TRESSURE LIMI				psi	NO. of Cent		CEMENT TEMPERATURE: WATER QUALITY:				SG			TEMP					
TIME PRESSURE		SURE	VOLUME	PUMPED		DULED FOR	16	ARRIVE ON LOCATION				pH RIG UP				LEFT LOCATION	OCATION	1	
0001 to 2400	TBG	CSG	INCR	CUM	TIME:	19:00 DATE: FLUID TYPE		TIME:	18:30	DATE:	7/30/2013	TIME:	19:00	DATE:	7/2302013	13	22:30:00 PM	DATE:	7/30/2013
					RATE	FLUID ITPE	DENSITY												
10.00																			
18:30												Arriv	e on locat	10 n					
40																			
19:00								Rig up pumps and bulk equipment											
20:12	2000		2			H2o	8.34				Test pu	mps and li	nes to 200	0 psi. 7	Fest good.				
20:13		150	73		4	H2o	8.34					pumped 7	5 bbls H2	o ahead	1.				
20:32		160	130	203	4	Cmt					Mix and pur	np130 bbl	s (304 sks	s) 12.5	# lead cen	nent			
21:10		30	46	249	4	Cmt	13.5				Mix and p	ump 41 bł	ols (142 sl	ks)13.5	tail ceme	nt			
21:22		50	67	311	4	H2o	8.34	Wash pumps and lines, drop plug and start displacement 69 bbls.											
								mush pumps and mus, drop plug and start displacement 07 0018.											
		100							Pump 5 bbls fresh water displacement/ then pump 64bbls KCL displacement for to								for total of 69) bbls	
								Call outs 22 bbls away 4 bpm 200 psi. 44 away 4 bpm 520 psi 66 bbls away 4 bpm 710											
								Can outo 22 0016 away 4 0pm 200 por 44 away 4 0pm 520 por 00 0016 away 4 0pm 710											
								finale lift 750 sent 25 bbls good coment to nit											
								finale lift 750 sent 35 bbls good cement to pit											
21:54								Land plug at 1560 psi tested float, float held											
21.54					Lanu piug at 1500 psi testeu fioat, fioat netu														
								<u> </u>											
								<u> </u>											
23:30	N -	77-11						000000	TION OF T	17723.6	1	rigged dov	n and left	locatio	on			MITTE	
System Used	No.of Sacks	Yield ft ³ /sk						COMPOSI	TION OF SYS	TEM							SLURRY BBLS	MIXED DE	NSITY
Lead	304	2.4				25/7	5 SDC blend 3	3% P20, 2% S	1, 0.25#/sxP29	9, 0.25#/sx P46	@ 12.5 #/gal						130		12.5
Surface Set	142	1.61									p167, 2% p20 @ 13.5	# gal					41		13.5
out	142	1.01				Gainee act 23.13 (, 2 10/0A P+2, .	.= /0 /31, 0.23							-			<u>a </u>
			L			—	—											I	
CIRCULATION	∏ Ye	es 🗌	NO	WASHED CA	ASING DOW		URNED TO	SURFACE			BREAKDOWN BEFORE PLUG BUMI	p		PSI	FINAL		1560	PS	I
DISPLACEMENT	VOL.		69	BBLS		K	35				PRESSURE		50	PSI	RATE		2	BPM	

										-							
CEMENTING TREATMENT REPORT (PAGE 2)											TREATMENT NUM	1BER GH2013012		DATE			
NATURAL RESOURCES									STAGE					JOB TYPE longstring			
WELL NAME AND NO. LOCATION (LEGAL) Schmidt ATU 1 221' FNL,& 222' FWL Sec 23, T							30S. R 38W	RIG NAME:	Trinidad d	drilling Rig 216			CEMENT PUMP: 23004				
FIELD		FORMATION				RIG FOREMAN: Dave Martinez					CEMENT SUPERVISOR: Gary Hessling						
COUNTY Grant Co					STATE API NO. KS				ARRIVE ON LOCATION TIME: 18:30	7/30/2013 RIG UP TIME: 19:00			LEFT LOCATION DATE: 7/2302013 TIME: 22:30:00 PM DATE: 7/30/2013				
TIME 0001 to 2400	TIME PRESSURE VOLUME PUMPED			JOB SCHEDULED FOR TIME: 19:00 DATE: 7/30/2013				DATE:	1130/2013		COMMENT	Differ #250201		1150/2015			
000110.2400	150	0.00	inc	COM	RATE	FLUID 1	TYPE	DENSITY	1								
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JOB SUMARY: