CEMENTING TR	EATMENT	REPORT			DIC	NEE	D			TREATMENT NUMBER GH2013008 DATE 7/16/20:					3 2/12/2013					
		PIC	INCL	CEC				STAGE				PE		_						
WELL NAME AND NO.					LOCATION	N (LEGAL)	LES		RIG NAME:								surface			
Gano ATU1					207'F	NL&228' FEL,s	sec 30,T29	S,R37W		Trinidad 1	Drilling Rig #216	CEMENT PUMPER:				23004				
FIELD					FORMATI	ON			WELL DATA BIT SIZE	1	CSG/Liner Size	8 5/8	 		FT	TOP		FT		
COUNTY					STATE		API NO.		TOTAL DEPTH	700	WEIGHT	24								
Grant Co			KS AFINO.			MUD TYPE	700	FOOTAGE	676											
					<u> </u>		BHST		GRADE											
RIG FORMAN				K	Levin Swaffor	rd			ВНСТ		THREAD									
									MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)	42.2						TOTAL:		
CEMENT SUPER				(Gary Hesslin	g			MUD VISC		Disp. Capacity	40.3						40.3	٦	
									Include Footage From Ground	Level To Head In			1				I			
									TYPE DEPTH			loo	TYPE DEPTH						_	
									# TYPE				TYPE						-	
SPECIAL INSTRUCTIONS									DEPTH			Stz	DEPTH							
									Head & Plugs		TBG	□D.P.				SQUEE	ZE JOB		_	
									Double Box 6		SIZE		1001	TYPE					_	
							Single	WEIGHT GRADE			TAIL PIPE:	DEPTH		CITE		DEPTH	_			
										THREADS	TAIL PIPE: SIZE TUBING VOLUME						BBLs	_		
									Knockout	New	Used		CSG VOL B		OOL.			BBLs	_	
LIFT PRESSURE			234	psi						DEPTH			TOTAL	LLO II TO	JOL			BBLs	-	
PRESSURE LIMIT 1000					psi BUMP PLUG TO			over lift	CEMENT TEMPERATURI		1		ANNULAR	VOLUME				BBLs	-	
					NO. of Cent	NO. of Centralizers			WATER QUALITY:		pH		i	SG			•	TEMP		
TIME	PRES	SSURE	VOLUMI	E PUMPED	ll .	DULED FOR			ARRIVE ON LOCATION			RIG UP					OCATION		_	
0001 to 2400	TBG	CSG	INCR	CUM	TIME:	0:30	DATE:		TIME: 0:00	DATE:	7/16/2013	TIME:	0:30	DATE:	7/16/2013	TIME:	5:30	DATE: 7/16/2013	_	
		1		1	RATE	FLUID T	YPE	DENSITY											_	
0:00		ļ		ļ								Arriv	e on locat	ion					_	
0:30											Ri	g up pumn	s and bulk	equipn	nent					
		1		1	1									1					_	
1.20												11-14	C-4	41						
1:30												Heid	safety mee	eung					_	
3:37		1000	2								Test pui	nps and li	nes to 100	0 psi. T	est good.				_	
3:30		120	40		4	H2c)	8.34	pumped H2o ahead. Cirrculation at 0 bbls away											
2:38									Mirr	and numn	114 bbla	(520 a)	lsa) 15 # av	urfo.co.	sat aamant					
3:38 80 114 154 4 Cmt 15									IVIIX	and pump	114 DDIS	(328 SF	KS) 15 # St	irrace :	set cement		_			
4:12		40.3	40.3	194.3	4	H2c)	8.34			D	op plug a	nd start dis	splacem	ent					
4:16]	Diaplacme	ent callo	outs 12 bb	ls 4 bp	m 120 psi			
7.45													•							
												24 h	bls 4 bpm	200 psi						
4:19												24 0	ois 4 opin	200 psi					_	
4:22										361	obls 4 bpm 250 p	si slow ra	te to 3 bpn	n until l	ast 2 bbls	then 2	bpm .		_	
4:26										Lanc	l plug at 1000 ps	i. lift 300 j	psi held fo	r 15 mii	n test floa	t testec	d good			
-																			_	
																			_	
			1																	
									ļ										_	
																			_	
			1																	
			 	 					 										_	
			1																	
			1																	
		1																	-	
												D:- ::		1	_					
5:30	No.of	Yield		<u> </u>		l			COMPOSITION OF SYS	TEM		Kigged do	own a left	iocation	1		SLIIDDA	MIXED	_	
System Used	Sacks	ft ³ /sk	<u></u>														BBLS	DENSITY	_	
																		-		
Surface Set 528 1.21 Surface set 25:75 (p:G) + 3% S1, 0.25 lb / sx p 29 , 0.25 lb / sx p 46 @ 15 # gal 114														_						
Surface Set	528	1.21	 				Surface	set 25:75 (p:0	a) + 3% S1, 0.25 lb / sx p 29	, 0.25 lb / sx p	46 @ 15 # gal						114	15	_	
			<u> </u>																_	
		ļ																		
		<u> </u>	<u> </u>																	
CIRCULATION	□ _V	es Γ	No .	WASHED CA	ASING DOM	/N	Yes	√No			BREAKDOWN	-		PSI	FINAL		1000	PSI	_	
CIRCULATION				TAROHED CA	LING DOW			TURNED TO	SURFACE		BEFORE PLUG BUMI)		2.01	LUME		1000	1 31	_	
DISPLACEMENT	VOI.		40.3	BBLS	1			25			PRESSURE		00	PSI	RATE		2	BPM		

CEMENTING TR	EATMENT	REPORT (P	AGE 2)		PIONEEK								UMBER GH2013008		JOB TYPE	:	2/12/2013			
WELL NAME AN	D NO					N (LEGAL)	it's		RIG NAME:			STAGE			surface CEMENT PUMP:					
FIELD	(Gano ATU1			207'F	NL&228' FEL,	sec 30,T29	9S,R37W	Trinidad I			Drilling Rig #216			23004 CEMENT SUPERVISOR:					
						UN	T			Kevin Swafford						Ga	ary Hessling			
COUNTY Grant Co TIME PRESSURE VOLUME PUMPED					STATE API NO. KS JOB SCHEDULED FOR				ARRIVE ON TIME:	0:00	DATE:	7/16/2013	RIG UP TIME:	0:30	DATE: 7/16/2013	TIME:	5:30	DATE:	7/16/2013	
TIME 0001 to 2400	PRESSURE VOLUME PUMPED TBG CSG INC CUM			JOB SCHEDULED FOR TIME: 0:30 DATE: 7/16/2013 RATE FLUID TYPE DENSITY									COMMENT							
·																				
JOB SUMARY:		1	1	1	<u> </u>	L			<u> </u>											