WELL NAME AND NO. Weirich 32-33 FIELD COUNTY Grant Co RIG FORMAN Data			DIC	DNEER				TREATMENT NUM GI	DATE 7/18/2013									
					NATURA	AL RESOURCES				STAGE	JOB TY	PE	longstring					
WELL NAME AN					LOCATIO	N (LEGAL)		RIG NAME:		<u>I</u>			CEMEN	T PUMPER:		longstring		
FIELD	W	eirich 32-3	3		207'FN FORMATI	L & 228' FEL , Sec 30 , ON	T29S R37W	WELL DATA	Patt	erson UTI 190	BOTTOM	1		FT	тор	23004	FT	
11110					10120111			BIT SIZE		CSG/Liner Size	5 1/2				101			
COUNTY					STATE	API NO).	TOTAL DEPTH	3002	WEIGHT	15.5							
		Grant Co				KS		MUD TYPE		FOOTAGE	2980.92							
DIG DODI (11)					Davis Mantin			ВНЯТ		GRADE								
RIG FORMAN				1	Dave Martine	SZ		BHCT MUD DENSITY		THREAD LESS FOOTAGE SHOE JOINT(S)	33.32	-				-	TOTAL:	
CEMENT SUPER					Gary Hesslin	σ		MUD DENSITY MUD VISC	-	SHOE JOINT(S) Disp. Capacity	55.52 68	-				-	68	
CEMENT SOLEK					oury ricosiin	6		Include Footage From Gro	ound Level To Head		08						00	
								TYPE			loc	TYPE						
								E DEPTH B TYPE			Stage Tool	DEPTH TYPE						
SPECIAL INSTRUC	TIONS			Cment produc	tion casing			DEPTH				DEPTH						
								Head & Plugs		SIZE	⊿ D.P.		TYPE		SQUEE	EZE JOB		
								Double Box 6	WEIGHT	SIZE		TOOL	DEPTH					
								 \$ingle	GRADE			TAIL PIPE:			SIZE		DEPTH	
						_ \$wage	THREADS			TUBING VO					BBLs			
			700					Knockout	New	Used		CSG VOL B	ELOW TO	OOL			BBLs	
LIFT PRESSURE PRESSURE LIMIT	r		722	psi	i i BUMP PLU	IC TO	1722	CEMENT TEMPERAT	DEPTH TURE:			TOTAL	OLUME			1	BBLs BBLs	
pa pa			NO. of Cen		18	WATER QUALITY:	OKE.		ANNULAR VOLUME SG					TEMP				
TIME PRESSURE VOLUME PUMPED		JOB SCHEDULED FOR			ARRIVE ON LOCATIO	ON	- I				LEFT L	OCATION	1					
0001 to 2400	TBG	CSG	INCR	CUM	TIME:	22:00 DATE FLUID TYPE	: 7/17/2013 DENSITY	TIME: 21:30	0 DATE:	7/17/2013	TIME:	22:00	DATE:	7/17/2013	13	11:30	DATE: 7/18/2013	
					RATE	FLOID ITTE	DENSITY											
21.20																		
21:30							+	<u> </u>			Arriv	e on locat	10 n					
22:00										Rig up	pumps and	l bulk equi	pment	(7-17-13)				
23:45								Rig	g unable to br	eak cirrculation, 1	need to per	forate casi	ng abo	ve float co	ollar. R	leturn 8:00 7-	18-13	
8:54	2000		2			H2o	8.34			Test pu	mps and li	nes to 200	0 psi. T	'est good.				
8:56		250	73		4	H2o	8.34				pumped 7	5 bbls H2	o ahead	l.				
9:17		375	129	204	4	Cmt				Mix and put	mp129 bbl	s (302 sks	s) 12.5 ;	# lead cen	nent			
9:52		80	40	244	4	Cmt	13.5			Mix and p	ump 40 bl	ols (140 sl	ks)13.5	tail cemer	nt			
										1	1 1		.,					
10:05		100	67	311	4	H2o	8.34	Dron	nlug and star	t displacement 67	bbls No	float Cut	displace	ement fror	n 68 (CV with floa	it) to 67	
10.00		100	07	511		1120	0.01	Diop	ping und star	t displacement of	00101110	nout. out	anoprae			e i mai not	u) to '07	
10:05		100						Pu	umn 5 bbls fre	sh water displace	ment/ then	numn 62k	ble KC	I displace	ement	for total of 6	7 bbls	
10.05		100						1 u	mp 5 0013 ne	sii water uispiace	ment then	pump 020	JUIS ICC	L displace	linein		7 0013	
									G II		200 .	40 4	1 67	75 . 641		4.1 00	0	
									Call outs 21	bbls away 4 bpn	1 200 psi. 4	42 away 4	opin 5	/5 psi 64 t	odis av	vay 4 opin 99	0	
									c 1 1:0		20.111							
							finale lif	t 990 sent	30 bbls g	ood cer	nent to pit							
					-													
								l										
				ļ				-										
								ļ										
11:30											rigged dov	vn and left	locatio	on				
System Used	No.of Sacks	Yield ft ³ /ek						COMPOSITION OF	SYSTEM						SLURRY MIXED BBLS DENSITY			
T		ft ³ /sk	1				75 800 1	204 D20 204 61 0 2511	D20 0.254/ P.1	@ 125#/1								
Lead	302	2.4	1					3% P20, 2% S1, 0.25#/s								129	12.5	
Surface Set	140	1.61				Surface set 25:75	p:G) + 2% P20	0, 5 lb/sx p42, .2% S1, 0.	.25 #/sx P46, .15%	p167, 2% p20 @ 13.5	# gal					40	13.5	
			<u> </u>	1														
CIRCULATION	□ Ye	es 🗌	No	WASHED CA	ASING DOW		No			BREAKDOWN			PSI	FINAL		990	PSI	
DISPLACEMENT	VOL		67	BBLS	1	R	ETURNED TO 30	SURFACE		BEFORE PLUG BUM PRESSURE		90	PSI	RATE		44	BPM	

Weirich 32-33

WELL NAME AND NO.

PIONEER NATURAL RESOURCES
LOCATION (LEGAL) 207'FNL & 228' FEL , Sec 30 , T29S R37W
FORMATION

RIG NAME:

TREATMENT NUMBER GH2013003 DATE TAGE JOB TYPE longstring CEMENT PUMP: Patterson UTI 190 23004 CEMENT SUPERVISOR:

Weirich 32-33 207FNL & 228' FEL, Sec 30, T298 R37W FIELD FORMATION								729S R37W		Patterso		23004 CEMENT SUPERVISOR: Gary Hessling				
									RIG FOREMAN:	Dave						
COUNTY Grant Co.						STATE API NO. KS JOB SCHEDULED FOR TIME: 22:00 DATE: 7/17/2013			ARRIVE ON LOCATION TIME: 21:30	DATE:	7/17/2013	RIG UP TIME: 22:0) DATE: 7/17/2012	LEFT LOCATION TIME: 11:30	DATE:	7/18/2013
TIME	PRE	Grant Co SSURE	VOLUME PU INC	MPED	JOB SCHE	DULED FOR			TIME: 21.30	DATE:	//1//2013			TIME: 11.30	DATE:	//18/2015
0001 to 2400	TBG	CSG	INC	CUM	TIME: RATE	22:00	DATE: YPE	7/17/2013 DENSITY				COMME	т			
					RAIL	TLOID I	III	DEAGITT								
	1															
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JOB SUMARY:	•	•	-	-	•			-	·							