CEMENTING TREATMENT REPORT						NEER					TREATMENT NUMBER SO2011004 DATE					4/18/2011							
					-	AL RESOURCES						STAGE											
WELL NAME AND NO.					LOCATION			RIG NAME:			<u> </u>	1		CEMEN'	T PUMPER:	Surface							
Thurow-Hill B ATU FIELD						Sec. 32 T30S R36		Pioneer Natur			ral Resources Rig # 3 BOTTOM					2305							
Hugoton			FORMATI	Chase/Council Grove	WELL DATA BIT SIZE 12 1/4			CSG/Liner Size	+		FT TOF	<u> </u>	FT										
COUNTY				STATE	AFE	TOTAL DEPTH 597		WEIGHT	8 5/8 24	1													
	Grant			1	Kansas	MUD TYPE			FOOTAGE														
				•	20195	ВНЅТ																	
RIG FOREMAN			Phillip Gibsor	1		ВНСТ			THREAD	LT&C													
							MUD DENSI	ГҮ		LESS FOOTAGE SHOE JOINT(S)						TOTAL:							
CEMENT SUPERVISOR Stan Owens							MUD VISC			Disp. Capacity						0							
CEMENT EMPLOYEES John Vail, Br					Omico Cucon or	ad I.D. Outic			e From Ground	Level To Head In	Disp. Capacity	<u> </u>	TYPE	1	1								
					Stuce Green ar	id J.R. Offiz		TYPE DEPTH				 	DEPTH										
								TYPE				Stage Tool											
SPECIAL INSTRUCTIONS								[™] DEPTH					DEPTH										
								Head & Plugs			TBG SIZE	D.P.	٦	TVDE									
								Double F	Box 6	WEIGHT	SIZE		TOOL	TYPE DEPTH									
								Single		GRADE			TAIL PIPE:	DLI III	SIZE	<u> </u>	DEPTH						
								Swage		THREADS			TUBING VO	LUME			BBLs						
								Knockou	t	New	Used		CSG VOL B	ELOW TO	OOL		BBLs						
LIFT PRESSURE			70	psi						DEPTH	ļ		TOTAL				BBLs						
PRESSURE LIMIT			500 ps		BUMP PLUG TO 200				MPERATURI	Ε:	68		ANNULAR V				BBLs						
TIME DDE		CLIDE	T VOLUME	DUMBED	NO. of Centralizers JOB SCHEDULED FOR		5	WATER QUA			8	pH	325		SG		TEMP 70						
TIME 0001 to 2400	TBG	SSURE CSG	INCR	E PUMPED CUM	TIME:	20:00 DATE	: 4/18/2011	ARRIVE ON TIME:	19:30	DATE:	4/18/2011	RIG UP TIME:	21:00	DATE:	4/18/2011 TIN	T LOCATION ME:	DATE 4/19/2011						
					RATE	FLUID TYPE	DENSITY			-						-							
22:00												Pre job	safety me	eting.									
												, , , ,	J	<u> </u>									
22:24		500	2	2 0.5 H20 8.3 Test Pumps and Lines.																			
22,24		500			0.5	1120	0.3	 	Test rumps and lines.														
												Pump H20 till circulation established											
22:30		40	3		3	H20	8.3		Pump H20 till circulation established.														
22:33		90	100		3	CMT	15	Mix and pump CMT @ 15 ppg.															
												31 1											
							Slow down and drop top plug.																
23:06		220	30		3	H20	8.3	8.3 Pump displacement.															
23:22		800	5		2	H20	8.3	Bump plug and check floats. (Held O.K.)															
							1	Dump plug and effects flows. (Held O.IX.)															
					 			-															
			<u> </u>	1	 		1	<u> </u>															
					1			Call Outs 10 Bbls/75 Psi. 20 Bbls/140 Psi 30 Bbls./ 220 Psi. Final 800 Psi.															
				<u> </u>	 												si.						
					1																		
				<u> </u>	<u> </u>			<u> </u>															
					<u> </u>			<u> </u>															
											Pumr	ed 15 bbls	s good cen	nent to	the pit.								
			1					1							.								
					1																		
			<u> </u>																				
22.55								Post job safety meeting.															
23:55	No.of	Yield	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	COMPOSI	TION OF SYS	TEM		rost job	salety me	zung.	Τ	SLURRY	MIXED						
System Used	Sacks	ft ³ /sk	ļ					2 311 0.01	01 010							BBLS	DENSITY						
Surface Set 460 1.23									Surface Set							100	15 ppg.						
	<u> </u>	<u> </u>	<u> </u>												<u> </u>		<u> </u>						
CIRCULATION	√Y	es _	No	WASHED CA	ASING DOW		No ETURNED TO	SURFACE			BREAKDOWN BEFORE PLUG BUMI)		PSI	FINAL	800	PSI						
DISPLACEMENT VOL. 35 BBLS							15 Bbls.	OUNTACE			PRESSURE		220	PSI	RATE	2	BPM						

CEMENTING TREATMENT REPORT (PAGE 2)					PIC	NEE	3			TREATMENT NUMBER			DATE						
			L RESOURCE							STAGE			JOB TYPE Surface						
WELL NAME ANI	NO.				LOCATION				RIG NAME:	<u> </u>	CEMENT PUMP:								
FIELD		FORMATI	ON			RIG FOREMAN:	ral Resources Rig # 3			2305 CEMENT SUPERVISOR:									
Hugoton-Panoma COUNTY					STATE		API NO.		ARRIVE ON LOCATION		RIG UP			Stan Owens LEFT LOCATION					
TIME	Stevens		MDED	Kansas JOB SCHEDULED FOR			TIME:	DATE: TIME:				DATE:	TIM	E:	DA	ATE:			
0001 to 2400	TBG	CSG			TIME: DATE:			D. D. LOVING					COMMENT						
					RATE	FLUID TY	PE	DENSITY											
							+												