Company	CH TODD, INC.
Well	C-S UNIT #1
Field	WILDCAT
County	BARTON
State	KANSAS

NABORS
COMPLETION & PRODUCTION SERVICES CO.

DUAL RECEIVER CEMENT BOND LOG

Company	SHELBY RESOURCES LLC
Well	C-S UNIT #1
Field	WILDCAT
County	BARTON
State	KANSAS
Location	1875' FSL; 1925' FEL SEC 24 TWP 17S RGE 14W
Other Services	DIGITAL SONIC
Permanent Datum	G.R.
Log Measured From	1984
Drilling Measured From	1989
Elevation	1984
	G.L. 1980
	K.B. 1989

Date	10-Dec-12		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3524		
Bottom Logged Interval	3524		
Top Log Interval	2400		
Open Hole Size	7.875		
Type Fluid in Hole	GEL		
Density / Viscosity	9.2	50	
Max. Rec. Temp.	100		
Estimated Cement Top	2400		
Time Logger at Bottom	3:00		
Equipment Number	10-C		
Location	HAYS	KS	
Recorded By	J. ALLEN		
Witnessed By	CHRIS SCHRAMM		

Bit	Size	From	To
1	7.875	0	3524

Casing	Size	Wt.	Grade	From	To
Surface	8.625	23	J-55	0	1000
Production	5.500	15.5	J-55	0	3524

Stage	Top	Bottom	Type	Amount
1	2400	3524	60/40 POZ	175 sks

Equipment	Type	Location
Cement Head		
Centralizer	5	Shoe, Collar, 1 Below DV, 1 Above DV, 1 Above Stage
Scratchers	20	Every Other Joint Through Zone of Interest
Stage Collar		
DV Tool		
Guide Shoe		
Insert Float		
Baffle		
Latch Down Plug & Baffle		
Porting Collar		

Rig Time		
Arrive Location	10-Dec	1:00
Start Rig Up	10-Dec	2:00
Finish Rig Up	10-Dec	3:00
Start Rig Down	10-Dec	6:00
Finish Rig Down	10-Dec	7:00

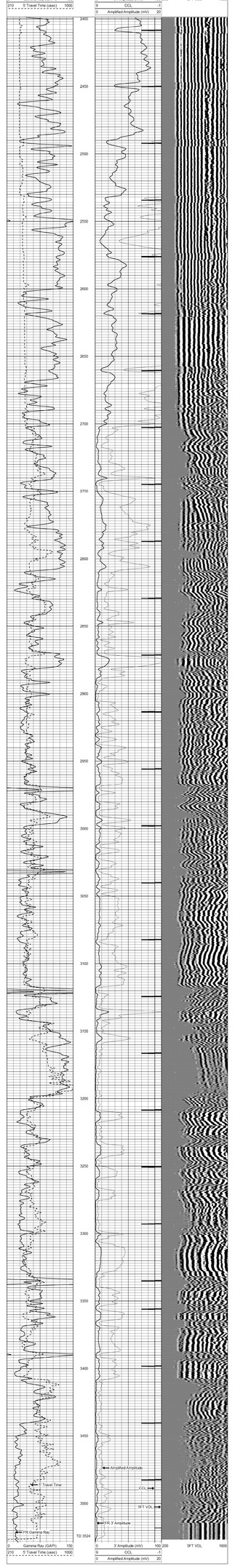
Equipment Used	
Pump Truck	10-C
Bulk Truck	10-C
Cement Head	
Centralizer	5
Scratchers	20
Stage Collar	
DV Tool	
Guide Shoe	
Insert Float	
Baffle	
Latch Down Plug & Baffle	
Porting Collar	

Cement Data			
Lead	60/40 POZ	175 sks	14.2 ppg
Tail			
Displacement	83.5 bbls		
Mud Flush	500 gal		
Cement to Surface	YES		
Cement Top	2400		
Time Cement Mixed	3:00		
Time Cement Pumped	3:00		
Time Plug Down	3:00		
Time Circulation Stopped	2:00		
Time Circulation Started	2:00		
Time Reciprocation Stopped			
Time Reciprocation Started			
Time Pipe Reached Bottom	1:00		
Time Pipe Left Bottom	1:00		
Time Arrived at Bottom	1:00		
Time Arrived at Casing	1:00		
Time Start Circulating	1:00		
Time Start Cementing	3:00		
Time Finish Cementing	3:00		
Time Cement in Place	3:00		
Time Release Pressure	3:00		
Time Finish Job	3:00		

Pressures		
Max. Rate	5	bpm
Max. Pressure	1000	psi
Lift Pressure	0	psi
Bump Plug To	1000	psi
Pressure Before Bump	0	psi
Pressure After Bump	0	psi
Pressure Before Release	0	psi
Pressure After Release	0	psi
Pressure Before Float	0	psi
Pressure After Float	0	psi
Pressure Before Stage		psi
Pressure After Stage		psi

Water Data		
Fresh Water	100	bbls
Mud Water		bbls
Brine Water		bbls

Comments
THANK YOU FOR USING NABORS COMPLETION & PRODUCTION SERVICES, HAYS, KS (785) 628-6395 DIRECTIONS: HWY 4 & HWY 281 - 2 EAST TO RD 20TH - 1 NORTH - 1/4 WEST - NORTH INTO

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

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Charted by: Depth in Feet scaled 1:240