



Pioneer Energy Services

## Borehole Compensated Sonic Log

API No.	15-193-20889-00-00		
Company	Culbreath Oil & Gas Company, Inc.		
Well	Ostmeyer #1-20		
Field	Wildcat		
County	Thomas		
Location	850' FNL & 1220' FWL		
	Sec: 20	Twp: 10S	Rge: 31W
			Elevation 2970
			K.B. 2980
			D.F. 2970
			G.L. 2970
	Other Services CNL/CDL MEL/DIL		

Permanent Datum	Ground Level	Elevation 2970
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	

Date	4/14/2013
Run Number	Two
Type Log	BHC Sonic
Depth Driller	4676
Depth Logger	4676
Bottom Logged Interval	4665
Top Logged Interval	300
Type Fluid In Hole	Chemical
Salinity, PPM CL	2000
Density	9.3
Level	Full
Max. Rec. Temp. F	125
Operating Rig Time	5 Hours
Equipment -- Location	91 Hays
Recorded By	D. Schmidt
Witnessed By	Steve Murphy

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	310	8.625	23#	00	310
Two	7.875	310	TD				

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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.

### Comments

Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
 Oakley (Mittens),  
 1 1/2 West on Old Hwy 40 to 450 Rd, 1 North to the T,  
 1 East to 460 Rd, 2 1/2 North,  
 East & North into

Database File: culbreath\_041413hd.db  
 Dataset Pathname: dil/culstk  
 Presentation Format: sonic  
 Dataset Creation: Sun Apr 14 21:23:00 2013  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	dCAL (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)













































