

Woolsey Operating Company, LLC Scale 1:240 (5"=100") Imperial

Measured Depth Log

Well Name: Luthi GU #4 Location: NE NE SE

License Number: API: 15-007-23680-00-00 Region: Barber County, Kansas

Spud Date: April 12, 2011 Drilling Completed: April 20, 2011

Surface Coordinates: 2310' FSL, 330' FEL Section 36-Twp 33 South - Rge 11 West

Kochia Pool

Bottom Hole Vertical Hole

Coordinates:

Ground Elevation (ft): 1448 K.B. Elevation (ft): 1457 Logged Interval (ft): 4000 To: 5125 Total Depth (ft): 5125

Formation: McLish Shale

Type of Drilling Fluid: Chemical Mud, Displace at 3400'

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company,LLC

Address: 125 N. Market, Suite 1000

Wichita, KS 67202

GEOLOGIST

Name: W. Scott Alberg

Company: Alberg Petroleum, LLC Address: 609 Meadowlark Lane

Pratt, Kansas 67124

FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
HUSHPUCKNEY SHALE	4374(-2917)	4370(-2813)
B/KC	4429(-2972)	4425(-2967)
PAWNEE	4515(-3058)	4511(-3054)
CHEROKEE GROUP	4561(-3104)	4560(-3103)
CHEROKEE SAND	4586(-3128)	4585(-3128)
MISSISSIPPIAN	4592(-3135)	4590(-3133)
KINDERHOOK SHALE	4818(-3361)	4816(-3359)
WOODFORD SHALE	4900(-3443)	4895(-3438)
VIOLA	4938(-3481)	4936(-3479)
SIMPSON GROUP	5029(-3572)	5024(-3567)
SIMPSON SAND	5040(-3583)	5038(-3581)
MCLISH SHALE	5090(-3633)	5090(-3633)
RTD	5125(-3668)	
LTD		5122(-3665)

Pipe Strap at 4512' indicated board depth was 26' long to pipe strap. Tops above 4512' are corrected estimations of true horizon depths.

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 211' with 240 sxs Class A, 2% gel, 3% cc, plug down at 11:30 p.m. on April 12, 2011. Cement did Circulate.

Production Casing:

Deviation Surveys: 1/4- 215',1/4-1214', 1/4-1721', 3/4-2227, 3/4-2736', 1-3213', 1/4-3720', 1/2-3816', 1/2-3975. 1-4133',1-4512', 1 1/2-5125'.

Contractor Bit Record:

1- 14 3/4" out at 215'.

2- 7 7/8" out at 4512'

3-77/8" out at 5125'.

Gas Detector: Woolsey Operating Company, Trailer #2

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Superior Testers

Logged by Superior Well Services

LTD - 5122'

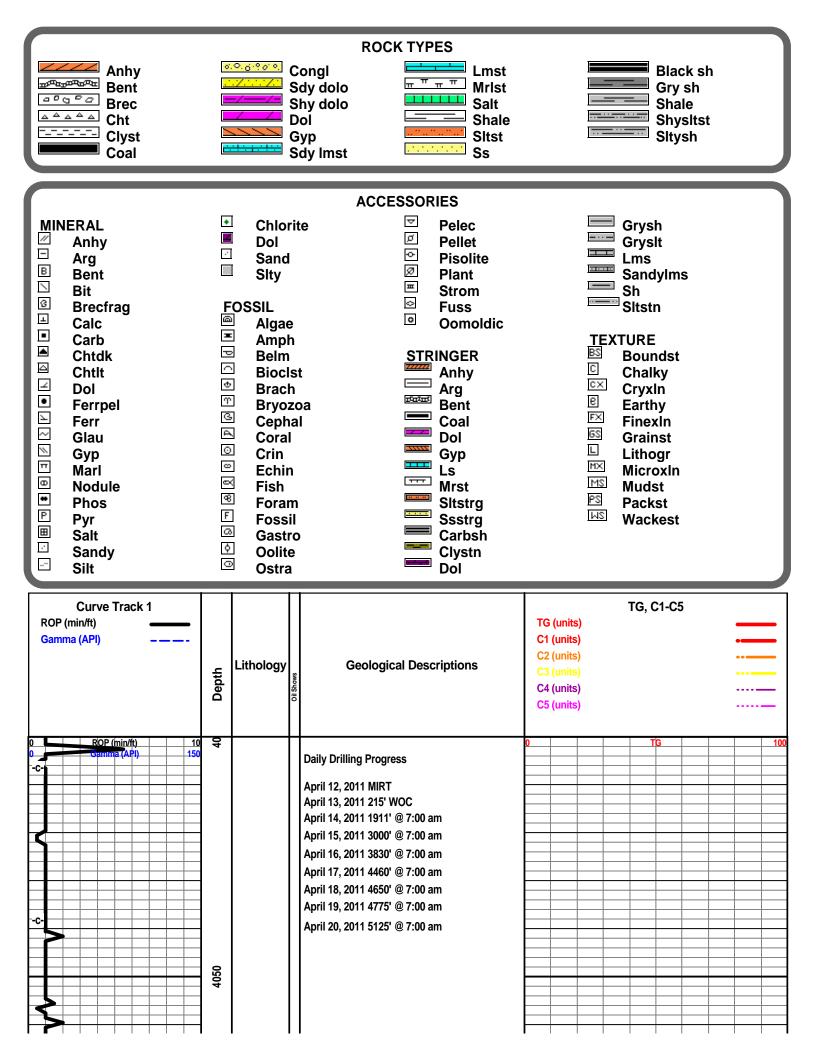
DSTs

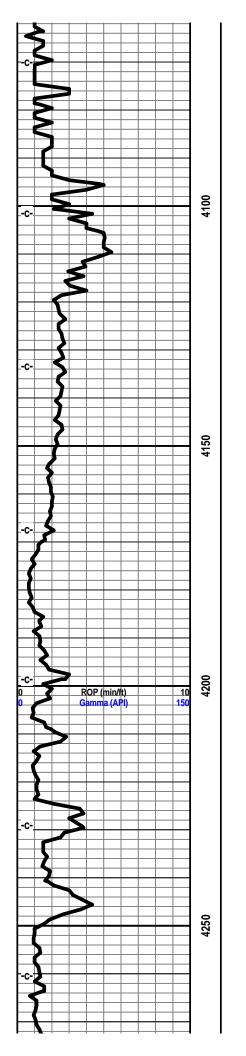
DST #1 4534 to 4650' Times 30-60-60-120 IF-Strong blow BOB in 13 minutes, no blow back FF-Strong blow BOB 2 minutes, no blow back. IHP 2290 FHP 2164 IFP 94-99 FFP 101-111 ISIP 458 FSIP 554

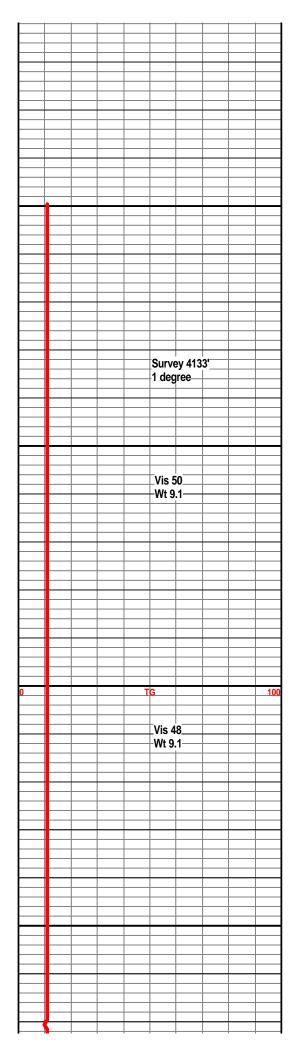
Recovery, 80' Drilling Mud, slight show of oil in tools.

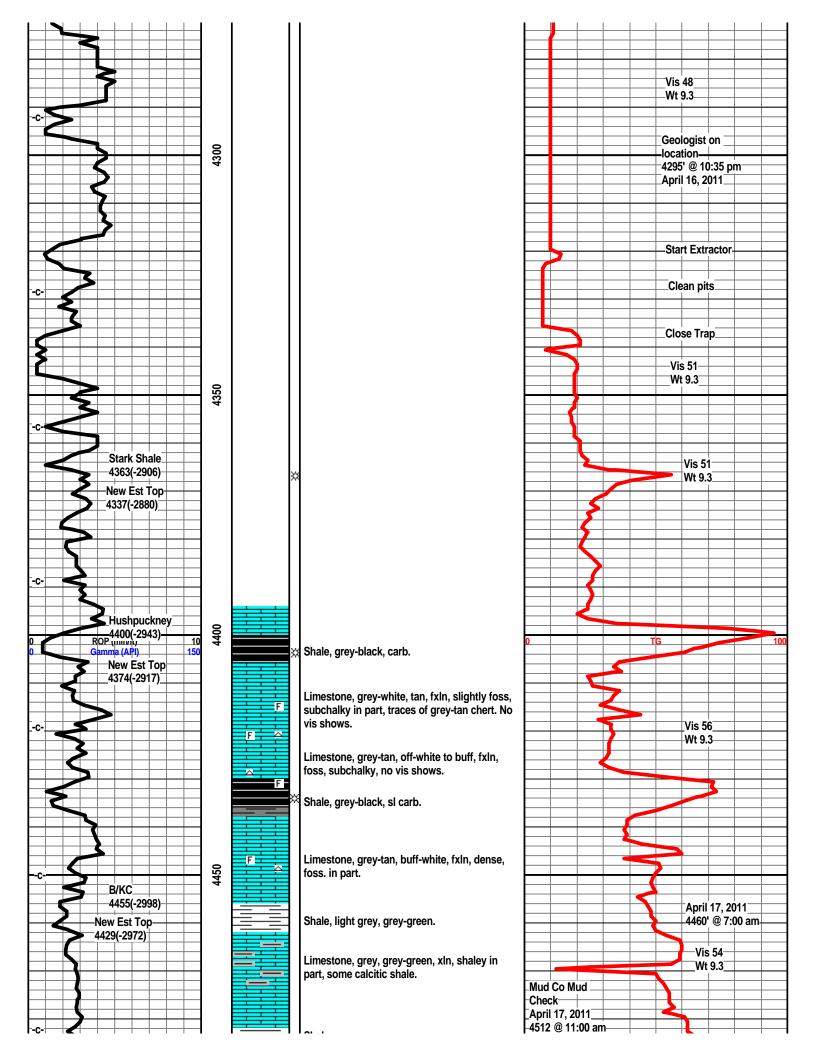
CREWS

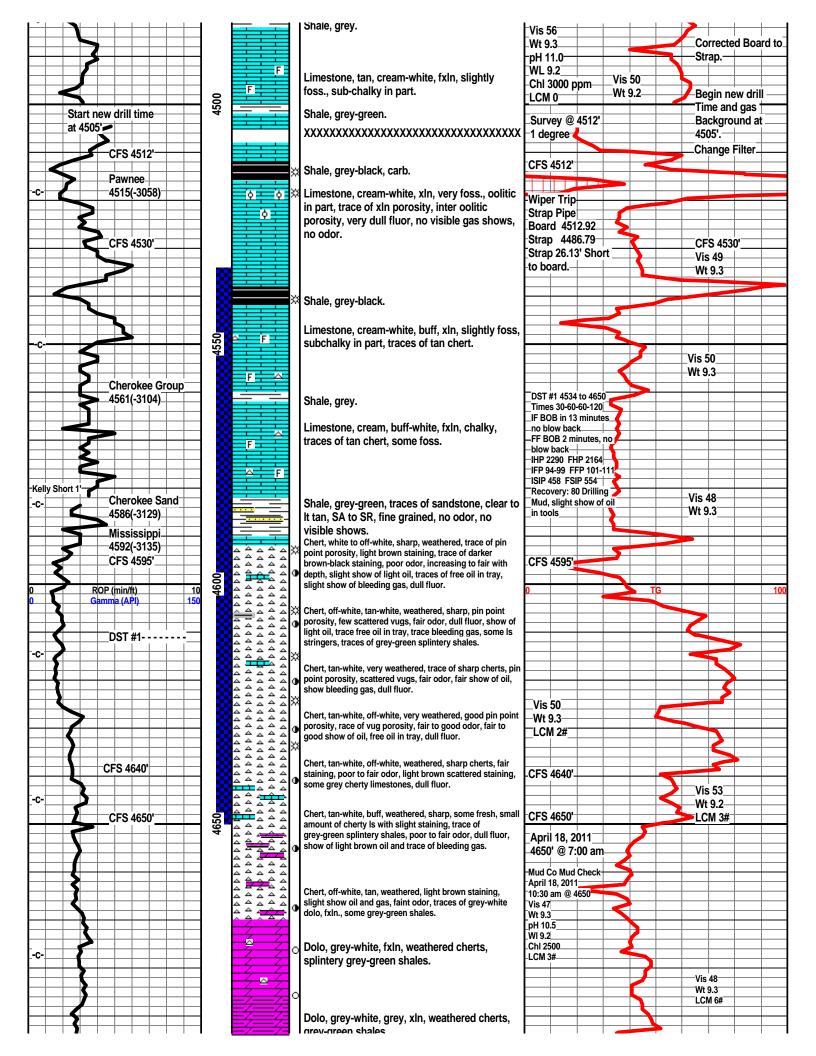
H2 Drilling Rig #3
Tool Pusher - Randy Smith
Drillers - Gary Axtell
Luis Marquez
Cain Charles

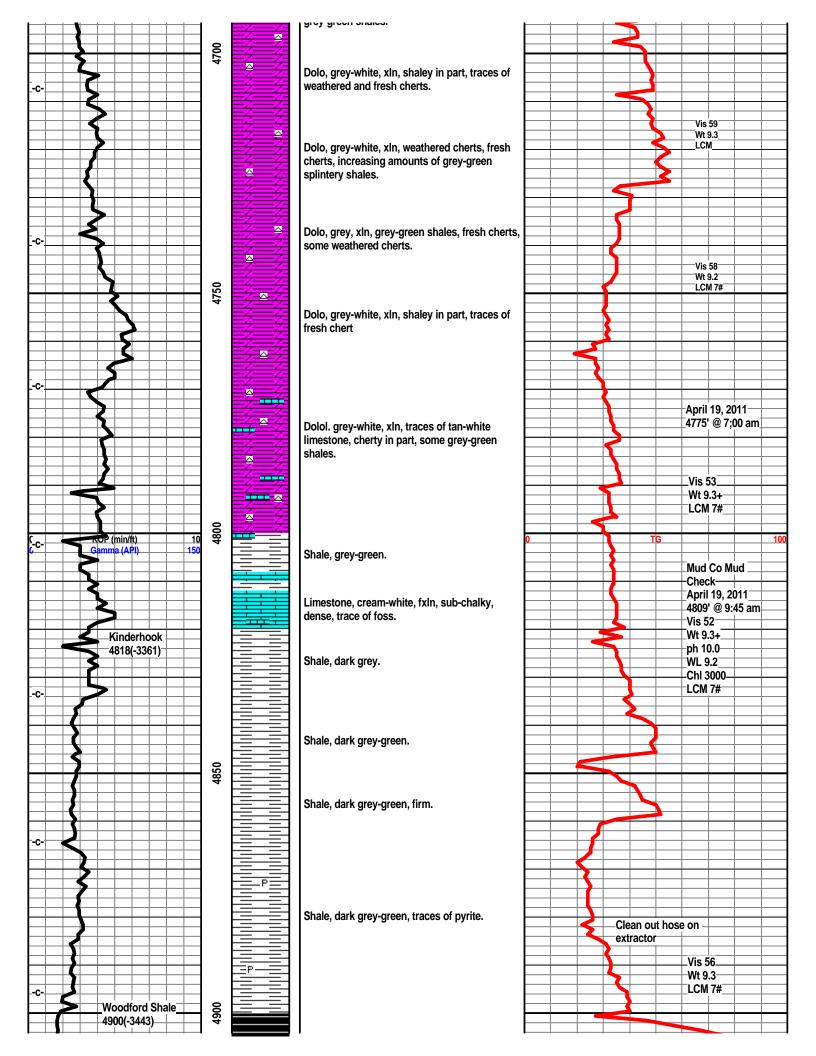


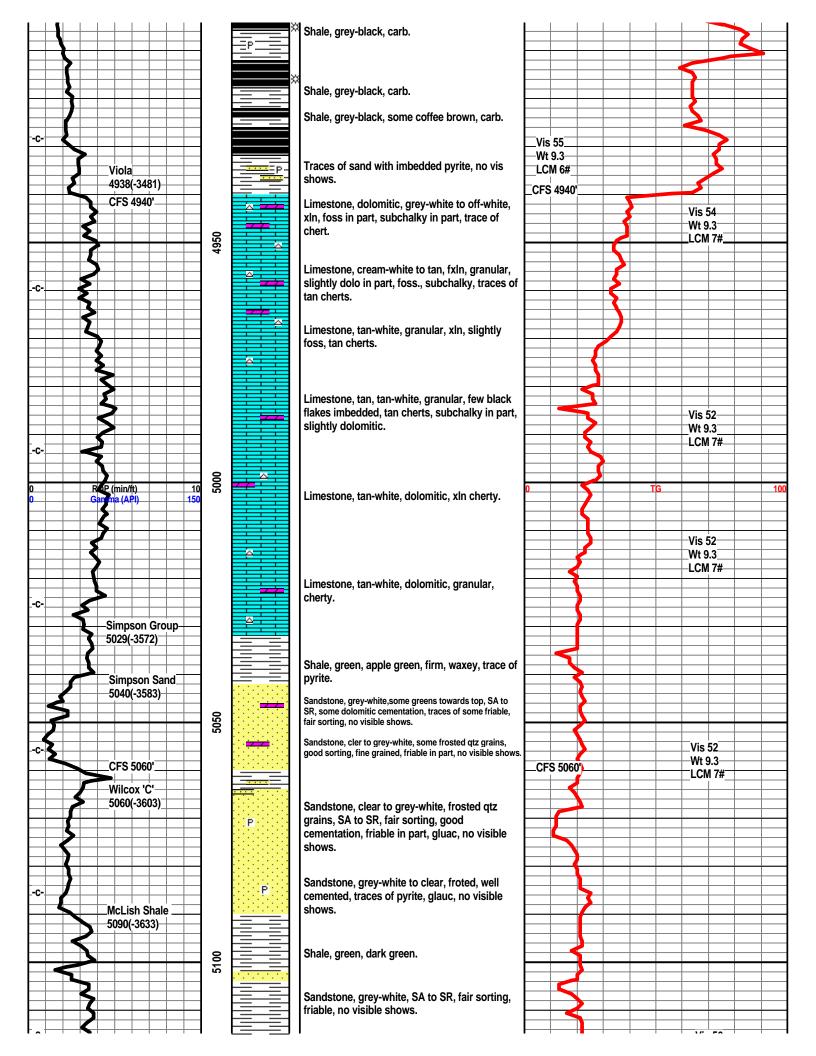












լ-Ե-լ	_			1		\vdash			I	\vdash						Vis	56		
\vdash				+		\vdash										Wt	9 2	\longrightarrow	
Н		4		+	_				Shale, dark green, firm, traces of pyrite.		_		TD E4				VI 6#	\rightarrow	
		_}		+	_				' ' ' ' '		-	—к	TD 51	25		1			
	$\overline{}$	-				\vdash		= = P-								-Mud	Cp N	lud 🕂	
			⊢KII.	5125	,—							L	TD 51	22'		_Che	ck	-	
																		1044	
			\sqsubseteq LTD	5122									April 1	20, 20°	11	_Apri	1 20, 2	2011+	
			\perp	\perp		\sqcup						<u>'</u>	Api II 2	20, 20	<u>'</u> '	512	5' @ 8	:35 am	1
\vdash				+		\vdash							5125	@ 7:0	0 am	—Vis ∙	49	\longrightarrow	
	-			+												−Wt 9		\rightarrow	
\vdash	-			+-	_	\vdash				\vdash	Surv	ey @ 5	5125'		H			\rightarrow	
				+		\vdash					1 1/2	degre				_pH 9	7.0	\rightarrow	
				\top							-1 1/2	uegre	:C			-WL		\neg	
							_									Chl	5000		
ш						\sqcup	5150									-LCN	18#_	\longrightarrow	
-				+		\vdash	51											\longrightarrow	
		_	\vdash	+														\rightarrow	
	\rightarrow	_		+	_	\vdash				\vdash								\rightarrow	
	\rightarrow	-		+														\rightarrow	
				\vdash														\neg	
						\sqcup												\longrightarrow	
\vdash			\vdash	+				1										\longrightarrow	
\vdash			\vdash	+				1										\longrightarrow	
\vdash		-	\vdash	+	_			I I		\vdash					\vdash			\longrightarrow	
\vdash	-	_		+	_	\vdash		I I		\Box					\vdash	-		\rightarrow	
				+				1										-	
	\neg			+		\vdash		I I										\rightarrow	
	\neg			\neg				I I										\neg	
								I I											
								I I											
				\perp		\Box		I I											
			\vdash	+		\vdash		I I										\longrightarrow	
\vdash				+	_	\vdash		1										\longrightarrow	
\vdash			\vdash	+	_		00	I I		\vdash					\vdash			\longrightarrow	
							Ó												