

Kansas Corporation Commission Oil & Gas Conservation Division

1053577

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Onv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

Side Two



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc. Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	d		Type and F	Percent Additives	
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify) _						

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	HIBBARD 1 SWD
Doc ID	1053577

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Tyep and Percent Additives
CONDUC TOR	30	20	53	43	GROUT	5	(5 yds not 5 sx)
SURFACE	17.25	13.375	54	245	CLASS A	300	2% gel, 3% cc
PRODUC TION	9.625	7	23	5295	60/40 POZ	50	4% gel, 1/4# Celoflake
PRODUC TION	9.625	7	23	5295	CLASS H	150	10% salt, 10% Gypseal, 6# Kolseal, 1/4# Celoflake, .8% fluid loss

P.O. # ORDERED BY Mike That Bill To Woolsey (BIG BUCKETS RATHOLE DRI P.O. Box 5252 Enid, Oklahoma 73702 Phone (580) 233-9850 Fax (580) 233-4588		NO Date 1 3-3-202	4549 11/30/ #1-5we 45-94 Rs	10 >
	DESCRIPTION	1119		AMOUN	JT
	BESCHI HON			/	
Furnish Men & Equipment To	e rat mouse holes	2 Cellar &	43A		
ef 30" %	rale - remove dis	A Ston loc.	,E		
· · · · · · · · · · · · · · · · · · ·		0			
Materials Furnished 43 47. 4	120 "Dine - 4/h yda	of & phalout		:	
Telda & mati	reals - 5 el 60 " ster	e cellan for	m	A.	
mud tile	w Willa mud	<u> </u>		6425	20
					l (
				Common	
1				***	
Operator Paul Wand	Approved By		Total	6425	00

9 .

ALLIED CEMENTING CO., LLC. 041423 Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT:
	ALLED OUT ON LOCATION JOB START A YOB FINISH A
DATE / 23 34 5 9 W	3:30 - 6:00 - 10:30 - 11:15 - COUNTY STATE
LEASE TIBOARD WELL WELL LOCATION BAL	vin Rel South Harmer Kansas
OLD OR NEW (Circle one)	at Zeast Yw
CONTRACTOR Tom-CAT	OWNER Molsey Edwarfing
TYPE OF JOB SONFACE	OWNER COOK SELECTION
HOLE SIZE 17/2 T.D.	CEMENT
CASING SIZE 13 3/8 DEPTH 256	AMOUNT ORDERED
TUBING SIZE DEPTH	300 sx Clas H+3/.cc+2/.gz
DRILL PIPE DEPTH	· · · · · · · · · · · · · · · · · · ·
TOOL DEPTH PRES. MAX SOO MINIMUM —	COMMON C19SS A 300 @ 15.45 4,635
PRES. MAX SOO MINIMUM — MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG.	GEL BSY @ 20.80 124.80
PERFS.	CHLORIDE 105x @ 58.20 582.00
DISPLACEMENT 36 1/2 Bbls Freshwater	ASC@
EQUIPMENT	
PUMPTRUCK CEMENTER Land Balchey	Pagulatory Correspondence @
#360265 HELPER Etymonel Ke	Walkover
BULK TRUCK	Orlg Comp Operations@ Tests / Meters @
# 364 DRIVER RSYMONEL	@
BULK TRUCK	@
# DRIVER	HANDLING 366 Spo @ 2.40 758.46
	MILEAGE 316 5255,10 796,00
REMARKS:	TOTAL 6,890.20
Din 26 133/2 Call	
pou 20 10 la casing	SERVICE
Bleak circulation	
Bleak Sirculation, Mix 300 sx A 3+2	DEPTH OF JOB 256 C
	DEPTH OF JOB
Mix 300 sx A 3+2 Diglace with 36'c flot water- leave, 20 Coment in Pipe + Shorting Comment Didcirculate	DEPTH OF JOB
Mix 300 sx A 3+2 Diglace with 36'c flot water- leave, 20 Coment in Pipe + Shorting Comment Didcirculate	DEPTH OF JOB
Mix 300 sx A 3+2 Diglace with 362 flot water- lews, 20 coment in pipe + Shut in Comment in pipe Charge To: Weeksey Episteday	DEPTH OF JOB
Mix 300 sx A 3+2 Diglace with 36'c flot water- leave, 20 Coment in Pipe + Shorting Comment Didcirculate	DEPTH OF JOB
Mix 300 sx A 3+2 Diglace with 362 flot water- lews, 20 coment in pipe + Shut in Comment in pipe Charge To: Weeksey Episteday	DEPTH OF JOB
Mix 300 sx A 5+2 Diglace with 36 effs water- leave, 20 coment in Pipe + Shut in Comment in Pipe Charge To: Woolsey Epwatary STREET	DEPTH OF JOB
Mix 300 sx A 5+2 Diglace with 36 effs water- leave, 20 coment in Pipe + Shut in Comment in Pipe Charge To: Woolsey Epwatary STREET	DEPTH OF JOB
Mix 300 sx A 5+2 Diglace with 36 effs water- leave, 20 coment in Pipe + Shut in Comment in Pipe Charge To: Woolsey Epwatary STREET	DEPTH OF JOB
Mix 300 sx A 5+2 Dirlace with 36 cffs water Leave, 20 Genert in Pipe + Short in Comment in Pipe CHARGE TO: UBOLSEY Extractor STREET CITY STATE ZIP	DEPTH OF JOB
Mix 300 sx A 5+2 Diplace With 36 cfffs water Leave, 20 Coment in Pipe + Shut in Canal Did Circlete CHARGE TO: Weblsey Episted STREET CITY STATE ZIP To Allied Cementing Co., LLC.	DEPTH OF JOB
Mix 300 sx A 5+2 Dirlace With 36 effs water Leave, 20 General in Pipe H Shut in Charge To: Woolsey Opward STREET CITY STATE ZIP To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment	DEPTH OF JOB
CHARGE TO: USOLS EY EMENT IN PIPE STREET CITY STATE ZIP To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or	DEPTH OF JOB
Mix 300 sx A 5+2 Dirlace With 36 effs water Leave, 20 General in Pipe H Shut in Charge To: Woolsey Opward STREET CITY STATE ZIP To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment	DEPTH OF JOB
CHARGE TO: LIBOLS ey Opwork STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was	DEPTH OF JOB
CHARGE TO: LIBOLS ey Entrata STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	DEPTH OF JOB
CHARGE TO: LIBELS EXPLACED STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL"	DEPTH OF JOB
CHARGE TO: LIBELS EXPLACED STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL"	DEPTH OF JOB

ALLIED CEMENTING CO., LLC. 040599

Federal Tax I.D	.# 20-5975804			, 10000
REMIT TO P.O. BOX 31		SERV	VICE POINT:	
RUSSELL, KANSAS 67665			Medici	ne Loise
	12-23	12-23		
	ALLED OUT	ON LOCATION	JOB START	JOB FINISH
	:30 pm	18:00 pm	7.30An	8:30 Am
Hibbara SUD WELL# LOCATION Huy 2	& Corwin	122.6 sou	Herper	105
OLD ORNEW (Circle one)	_	0		
10012035 1-1542	·) - 1- 1350	,	ليـ	
CONTRACTOR JOMCS + #2	OWNER WC	DOISEY OP.	oscz,ng	<u> </u>
TYPE OF JOB Production				
HOLE SIZE 95/8 T.D. 6268	CEMENT			
CASING SIZE Jei DEPTH 52951		DERED 853		
TUBING SIZE DEPTH	150s	1955 14 + 10	O lo Gap of	10 90 5512
DRILL PIPE VV LIA DEPTH	6 # Keise	=c, +. 80/cF	1160 - 14	#10509
TOOL Regulatory Correspondent	G01414011 A	<i>-1</i> -1	@ 15.45	787 95
FICES. MAX DING ON WHINING ON	COMMON A	7./		272-00
MEAS. LINE Tests 7 Meters SHOE JOINT 42	POZMIX	34 SX	_@ <u></u>	62.40
CEMENT LEFT IN CSG.	GEL	3 3X		82:70
PERFS.	CHLORIDE _		@	
DISPLACEMENT 206 hh/s of fresh water	ASC	150 sx	_@ _@ <i>J6</i> .7 <i>5</i>	2512-50
EQUIPMENT	Class H Gynseal	150 SX 14 SX	_@ <i>_78.75</i> 	408.80
	5014	16 sx	_@ <i>_[J].6</i> 0	192 00
PUMPTRUCK CEMENTER Darin F.	Lo Iseal	900 ±	_@ <i>_8</i> 9	801 =
# 352 HELPER Doug F/Ron G	F1-160	113 =	<u>@ 73,30</u>	1502-90
BULK TRUCK	Floseal	375=	@2.50	937,50
#381-252 DRIVER Reymons 2	1_10000	<u></u>	_ <u> </u>	
BULK TRUCK				
# DRIVER	HANDLING_	290	@	696
	MILEAGE	290/-25/-10	5	725 00
REMARKS:			TOTAL	8898,05
Pipeon bettom Lbresk Circulation				
my 25 so for Reshole my lose few		SERVI	CE	
mousehole: My Sos for Soquenser		OLZIE V R		
Cement, My 15050 Of Hij Comers, Shut	DEPTH OF IC	DB 52981		
down wash pump Elines, Release Pluc	PUMP TRUCI		2185	
Start Lisplanment, Lift pressure Et	EXTRA FOOT		@	
180 bb15, 8/0w rere to 3 hpn 84	MILEAGE		@ 7 ==	175
190 bhis Bumpplus 12 206 bhis	MANIFOLD _		@	
700-1400 psi, flocat die hoid		Les a renje,	@	
			@	
CHARGE TO: Woolsey Operating				
			TOTAL	<u> 2360 </u>
STREET				
CITYSTATEZIP				YOUR .
	71	PLUG & FLOA	I EQUIPMEN	1.T.
	1-Triple	ex Shee	@	1005
	1-498ch	Down Plug		205
To Allied Cementing Co., LLC.		1,200	_@ <i>50=</i>	200
You are hereby requested to rent cementing equipment	1-B9516=	-4	@	200- ==
and furnish cementer and helper(s) to assist owner or			@	
contractor to do work as is listed. The above work was				•
done to satisfaction and supervision of owner agent or			TOTAL	1610 -
contractor. I have read and understand the "GENERAL	*			
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX ((If Any)		
TEMMS AND CONDITIONS HISTER OF THE TEVELSE SIDE.			3563	
· All This	TOTAL CHAI	KUES		
PRINTED NAME Y Allen F. Dick	DISCOUNT _		IF PAI	D IN 30 DAY
		DE ON		

Thank You!!!



DRILL STEM TEST REPORT

Woolsey Operating Company LLC

Hibbard #1SWD

125 N Market Ste 1000 Wichita KS 67202

ATTN: Curtis Covey

23 34s 9w Harper

Job Ticket: 37407

Test Start: 2010.12.20 @ 02:22:50

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: Test Type: Conventional Bottom Hole ft (KB)

Time Tool Opened: 08:28:45 Tester: Esak Hadley 34

Time Test Ended: 16:21:15 Unit No:

Interval: 5786.00 ft (KB) To 5827.00 ft (KB) (TVD) Reference Elevations: 1303.00 ft (KB) Total Depth: 5827.00 ft (KB) (TVD)

1291.00 ft (CF)

DST#: 1

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 12.00 ft

Serial #: 6773 Inside

Press@RunDepth: 5787.00 ft (KB) 2494.42 psig @ Capacity: 8000.00 psig

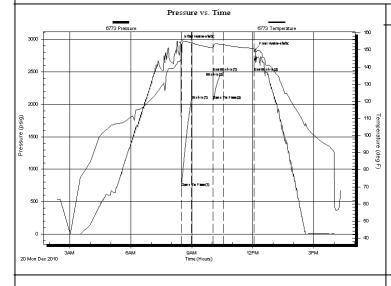
Start Date: 2010.12.20 End Date: 2010.12.20 Last Calib.: 2010.12.20 Start Time: 02:22:45 End Time: Time On Btm: 2010.12.20 @ 08:26:09 16:21:10

Time Off Btm: 2010.12.20 @ 12:08:25

TEST COMMENT: IF Strong blow . BOB in 60 sec.

ISI Weak blow . Slow increase to 3". FF Strong blow . BOB in 60 sec.

FSI Weak surface blow. No more than 1/4".



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2951.41	144.32	Initial Hydro-static
3	728.41	143.65	Open To Flow (1)
33	2070.12	154.18	Shut-In(1)
97	2502.23	151.35	End Shut-In(1)
97	2065.87	151.39	Open To Flow (2)
127	2494.42	153.15	Shut-In(2)
218	2502.38	150.99	End Shut-In(2)
223	2845.91	149.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
283.00	WCM 40%w 60%m	2.29
95.00	MCW 30%m 70%w	1.33
189.00	MCW 20%m 80%w Rw .23@63deg=35	Kp2.65
378.00	MCW 10%m 90%w	5.30
4055.00	MCW 5%m 95%w Rw .11@63deg=80K	or56.88

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 37407 Printed: 2010.12.20 @ 22:16:24 Page 1



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company LLC

Hibbard #1SWD

125 N Market Ste 1000

23 34s 9w Harper

Wichita KS 67202

ATTN: Curtis Covey

Job Ticket: 37407 **DST#:1**

Test Start: 2010.12.20 @ 02:22:50

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:55.00 sec/qtCushion Volume:bbl

Water Loss: 9.58 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
283.00	WCM 40%w 60%m	2.294
95.00	MCW 30%m 70%w	1.333
189.00	MCW 20%m 80%w Rw .23@63deg=35Kppn	n 2.651
378.00	MCW 10%m 90%w	5.302
4055.00	MCW 5%m 95%w Rw .11@63deg=80Kppm	56.881

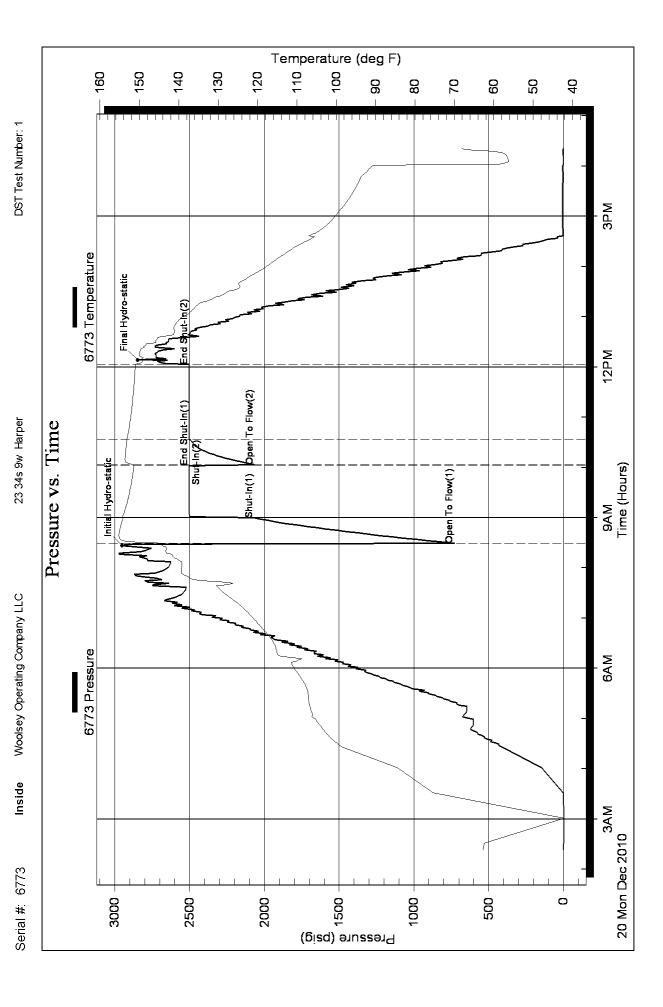
Total Length: 5000.00 ft Total Volume: 68.461 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 37407 Printed: 2010.12.20 @ 22:16:24 Page 2



37407 Ref. No: Trilobite Testing, Inc

Printed: 2010.12.20 @ 22:16:24 Page 3



Scale 1:240 (5"=100') Imperial **Measured Depth Log**

Well Name: HIBBARD #1 SWD

Section 23 - Township 34 South - Range 9 West Location:

License Number: 15-077-21,719 - 00-00 Region: Harper County, KS.

Spud Date: 5 December 2010 Drilling Completed: 22 December 2010

Surface Coordinates: 250' FNL & 200' FEL

(Approx NE NE NE NE)

Bottom Hole Coordinates:

Ground Elevation (ft): 1,289' K.B. Elevation (ft): 1,300' Logged Interval (ft): 5,000' To: 6,262' Total Depth (ft): 6,262'

Formation: Kinderhook Shale -----> Arbuckle Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

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

OPERATOR

WOOLSEY OPERATING COMPANY, LLC

125 North Water, Suite 1000 Address: Geologist: **Dean Pattisson**

Wichita, Kansas 67202

(316) 267-4379

GEOLOGIST

Name: Curtis Covey

Company: COVEY - The Well Watchers

Address: 6548 Bedford Circle wellsitegeo1@gmail.com

Derby, Kansas 67037

Office: (316) 776 - 0367 Cell: (316) 217-4679

KB: 1,300' GL: 1,289' **FORMATION TOPS**

Rotary Sample Depth (Datum) E-log Depth (Datum) **Formation**

Wilcox Sand 5,038' (-3,738') 5,040' (-3,740') 5,186' (-3,886') McLish Sand 5,188' (-3,888') Arbuckle 5,228' (-3,928') 5,228' (-3,928')

iRTD: 5,302' LTD: 5,304' iATD: 5,304' Rotary sample depth is 2' lower than E-logger's depth.

FINAL RTD: 6,262' E-Loggers: Weatherford

Liberal, Kansas

DST #1 - ARBUCKLE

Rotary Depth: 5,786' - 5,827'

Logger's Depth: NA

IFP: 728# - 2,070# / 30" ISIP: 2.502# / 60" FFP: 2,066# - 2,494# / 60"

FSIP: 2,502#/90"

MH: 2,971# - 2,332#

151 deg F

Rec: 283' Water cut Mud (40%W,60%M)

95' Mud cut Water (30%m,70%W) 189' Mud cut Water (20%M,80%W)

378' Mud cut Water (10%M, 90%W)

4,055' Muc cut Water (5%M,95%W)

Recovery Water: (35M - top) (80M - rest)

System Water: (4,000 ppm) Reported Rw =

0.23 ohms @ 63 deg F - top 0.11 ohms @ 63 deg F - rest

Total Fluid: 5.000'

IF: BOB in 1 minute, Strong Blow. ISI: Weak Blow - slow build to 3 inches. FF: BOB in 1 minute, Strong Blow.

FSI: Weak Surface Blow, no more than 1/4 inch.

Trilobite Testing, Inc. Pratt, KS.

2010

DAILY DRILLING STATUS -- DECEMBER

2010

30" Hole

3 Nov -- 20" conductor set @ 43' with 5 yds grout. 5'x5' cellar.

17-1/4" Hole

5 Nov -- Spud @ 10:30am. Drill to 280'. Run 13-3/8" casing. Set casing @ 245'. Cemented w/ 230 sx Class A (2% gel+3%CC). [Allied] Cement did circulate. Plug down @ 11:15pm. WOC.

> 9-7/8" Hole Tri-Cone: 280' ---> RTD.

6 Nov -- WOC. 6am @ 280'. Under surface casing @ 1:45pm.

9-7/8" Hole Tri-Cone: 280' ---> RTD.

7 Dec -- 6am @ 776'.

Work on Pump & clutches.

8 -- 6am @ 1,710'. -- 6am @ 2,221'. 9 -- 6am @ 2,800'.

10 -- 6am @ 3,374'. 11 12 -- 6am @ 4,013'.

--- Bit Trip @ 4,314'. 13 Resumed Drilling.

> 6am @ 4,324'. -- 6am @ 4.675'.

14 15 -- 6am @ 5,050'. Bit Trip @ 5,057'.

16 -- Resumed Drilling. 6am @ 5,123'.

Drill to 5,302' @ 8:50pm. Prep hole for E-log.

7-7/8" Hole Tri-Cone: 5,302' ---> RTD.

17 Dec -- 6am @ 5,302'.

19

21

E-log.

18 -- Resumed Drilling @ 5am.

6am @ 5,312'. -- 6am @ 5,680'.

Drill to 5,827'. Prep Hole. Start &

20 -- 6am @ 5,827'.

Finish DST #1: Arbuckle (5.786' - 5,827'). T/I after test, repeated circ.

-- 6am @ 5,827'. Resumed Drilling @ 6:20am.

DOGLEG deg/100'

22 -- 6am @ 6,120'.

RTD @ 6,262' @ 1:30pm.

HOLE DEVIATION (280' - 5,777') & STRAP

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST
280' /	1.00 (Surface)					
996' /	0.50					
1,490' /	0.75					
2,000' /	1.25				O OTD AD	
2,251' /	1.25				G STRAP -	
2,598' /	1.00				30ard: 5,30	
3,037' /	1.00			,	Strap: 5,30	
4,013' /	0.75				Diff:	5.07
4,324' /	0.75 (Bit Trip)					
4,706' /	0.25					
5,057' /	1.00					
5,302' /	1.00 (E-log)					
5,777' /	0.75					

TOMCAT DRILLING, LLC.

100 South Main, # 508 Wichita, Kansas 67202

(316) 262-8554

Drilling Rig #2 - (620) 282-0370

Toolpusher: Carlos Ayala (620) 282-8667

On main hole (tri-cone), 80 RPM.

Mud Pump: Main: 3ND 1000

20 Dec

6" x 12" @ 100 SPM.

280' --> 5,302':

Dry Wt of Collars: 73,025# [117.2' x 140.5#/ft = 16,467#] [616.44' x 91.75#/ft = 56,558] Drill Collars: 7-7/8" OD x 3" ID & 6-1/4" x 2-3/16" ID

Buoyancy Wt of Collars: 62,655#

[73,025# x .858 (9.3ppg) = 62,655#] Available WOB: 53,291# [62,695# x .85 = 53,257#]

Contractor reports running 48M on bit
[At & See Conc @ 4,894' for details]
Tension on drill string - 9,398#
[15% Design Factor]
to keep drill string straight.

Weight Indicator light by 15%; therefore, 48M showing has true WOB 55,200M.

15 - 15 - 15

Pump Pressure: 1,400 psi @ standpipe.

7-7/8"

REED R30AP

5,303' ---> RTD

Dry Wt of Collars: 59,445#
[647.91' x 91.75#/ft = 59,445]
Drill Collars: 6-1/4" x 2-3/16" ID
Buoyancy Wt of Collars: 51,123#
[59,445# x .860 (9.2ppg) = 51,123#]
Available WOB: 43,454#
[51,123# x .85 = 43,454#]
Weight Indicator weighs
light by 15%, therefore
WI of 37,786# = true WOB 43,454#.

Contractor report running 28M on bit in Arbuckle @ 5,303'. Contractor report running 36M on bit in Arbuckle @ 5,338'.

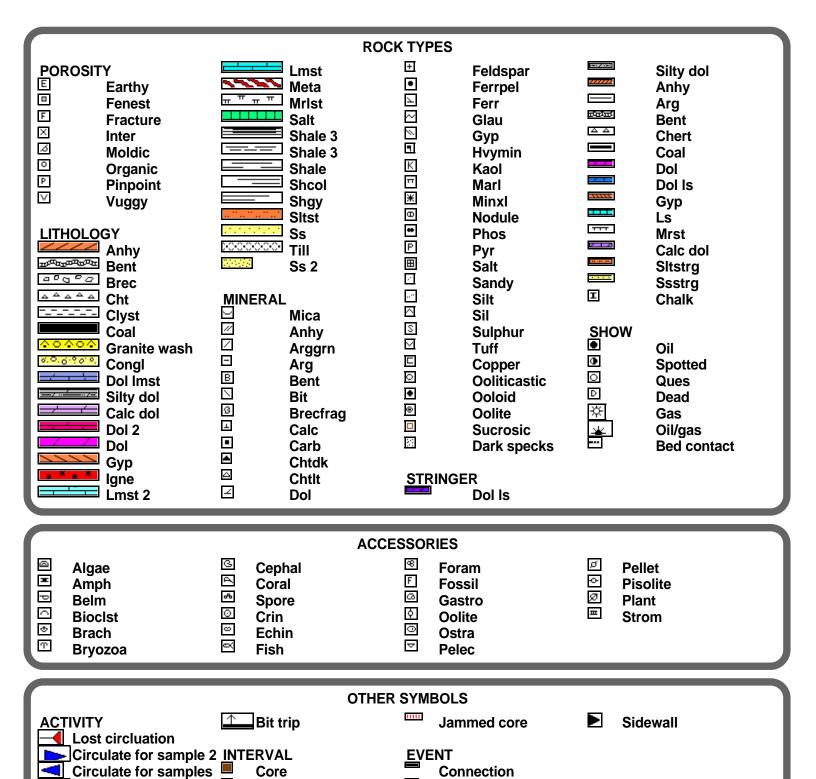
435'

31.00

14.0

BIT RECORD TYPE DATE SIZE **JET SIZE DEPTH IN / OUT** CUM. FT. **HOURS ROP** 17-1/4" REED 14 - 16 - 16 - 16 0' / 280' 5 Dec 280' 6.00 35.0 6 Dec 9-7/8" REED TD52X * 16 - 16 - 16 280' / 4,324' 4,044' 133.25 30.4 **REED ETD 35** 4,324' / 5,057' 13 Dec 9-7/8" 16 - 16 - 16 732' 43.25 18.3 REED TD52X * 5,057' / 5,302' 16 Dec 9-7/8" 16 - 16 - 16 247' 19.50 12.7 * Same Bit 18 Dec 7-7/8" REED TD53AM 16 - 16 - 16 5,302' / 5,827' 525' 30.25 17.4

5,827' / 6,262'

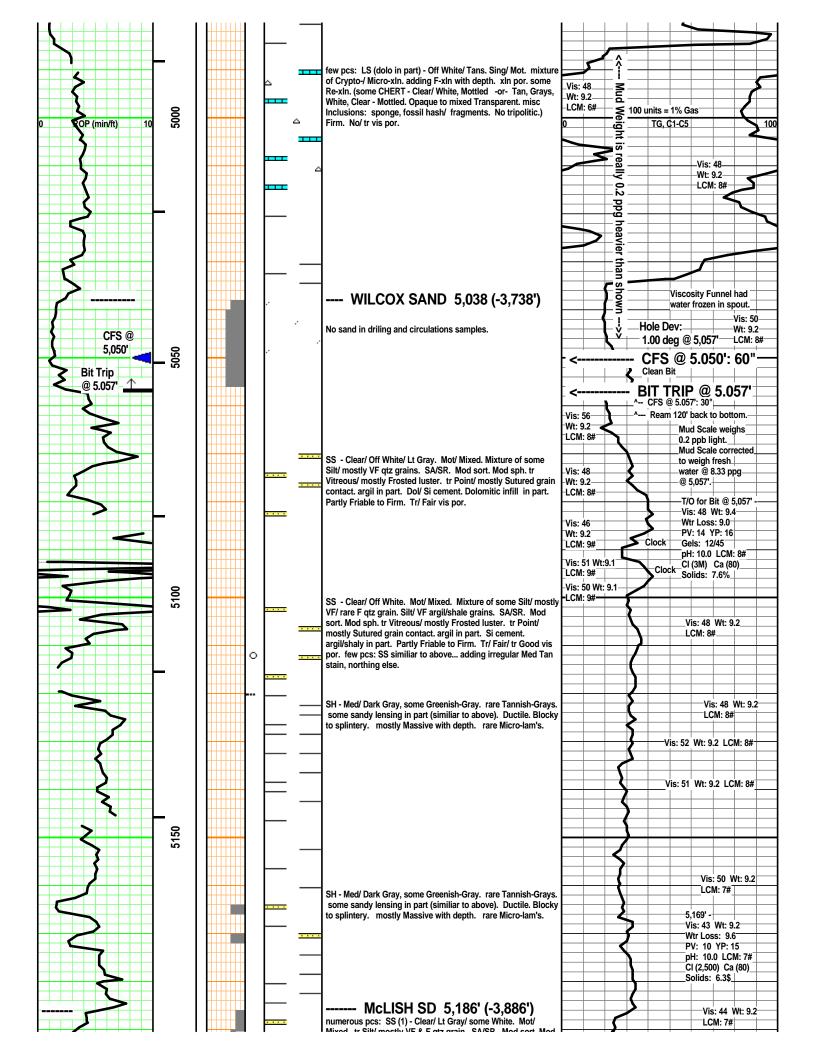


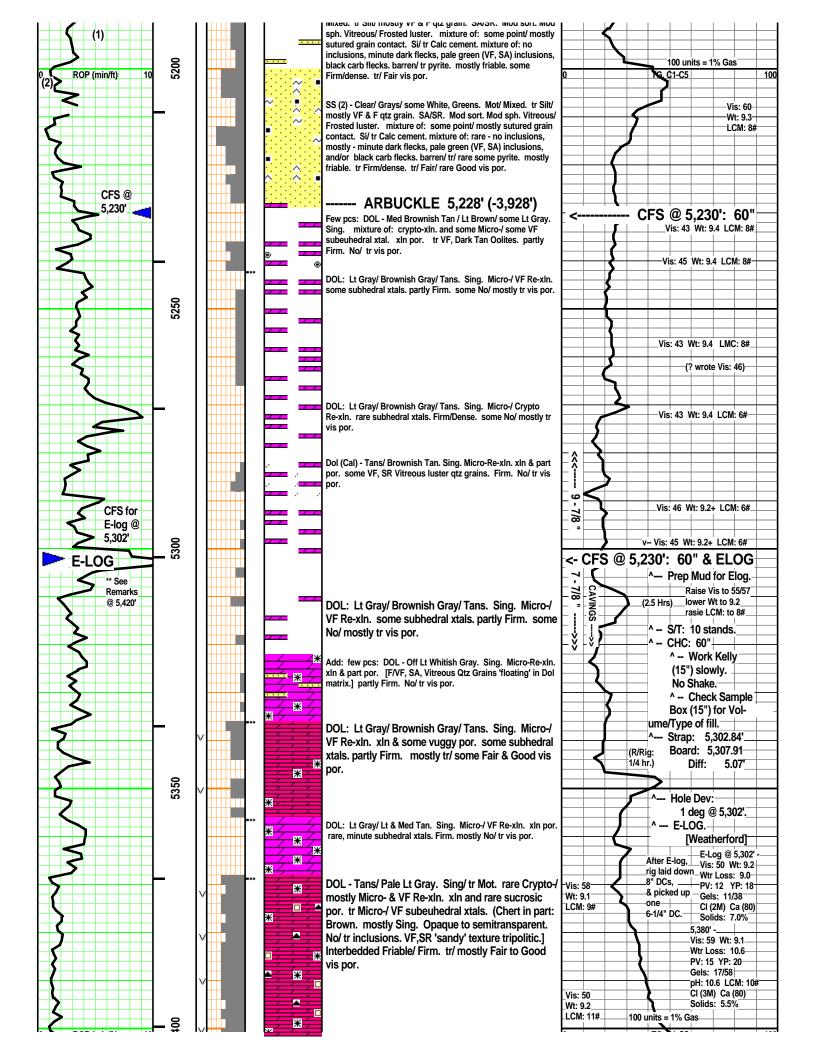
Rft

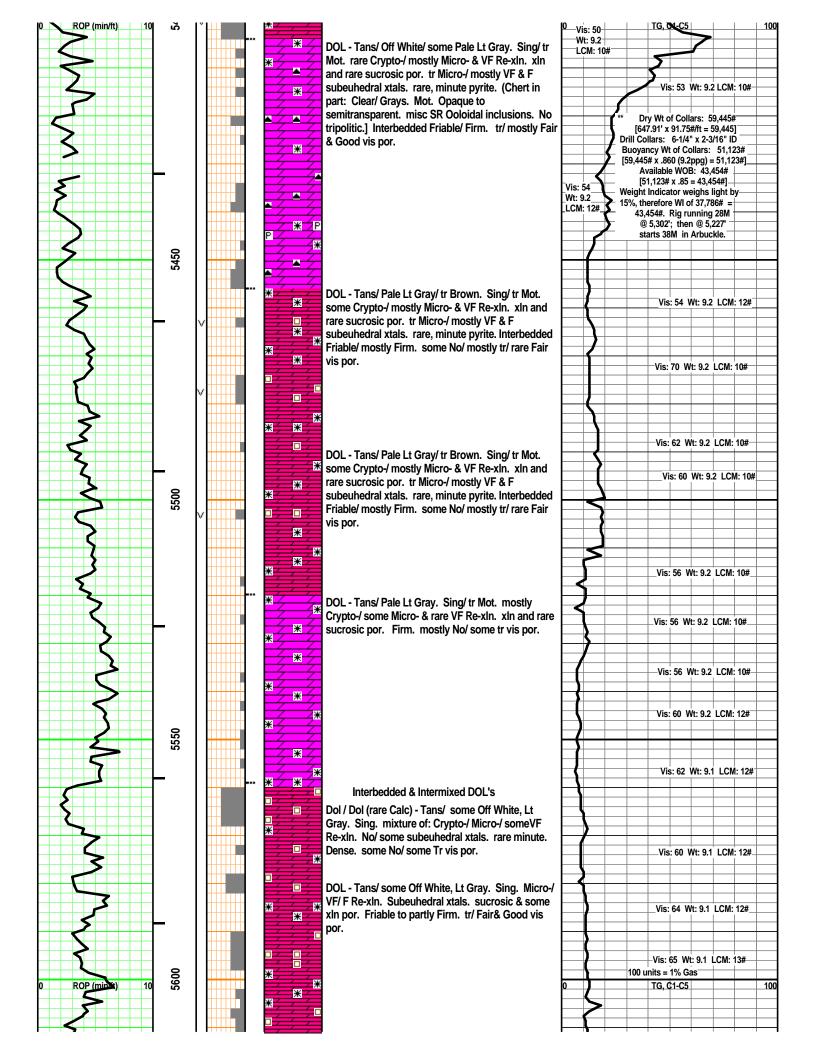
RTD Rtd

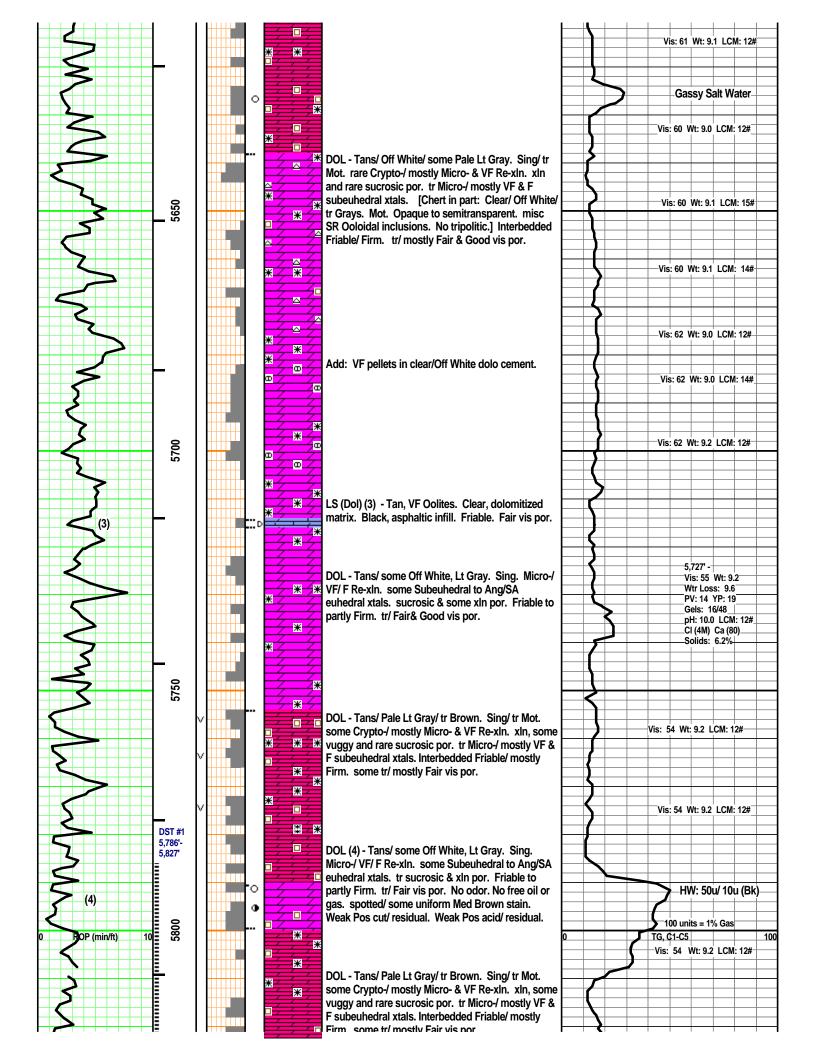
Dst

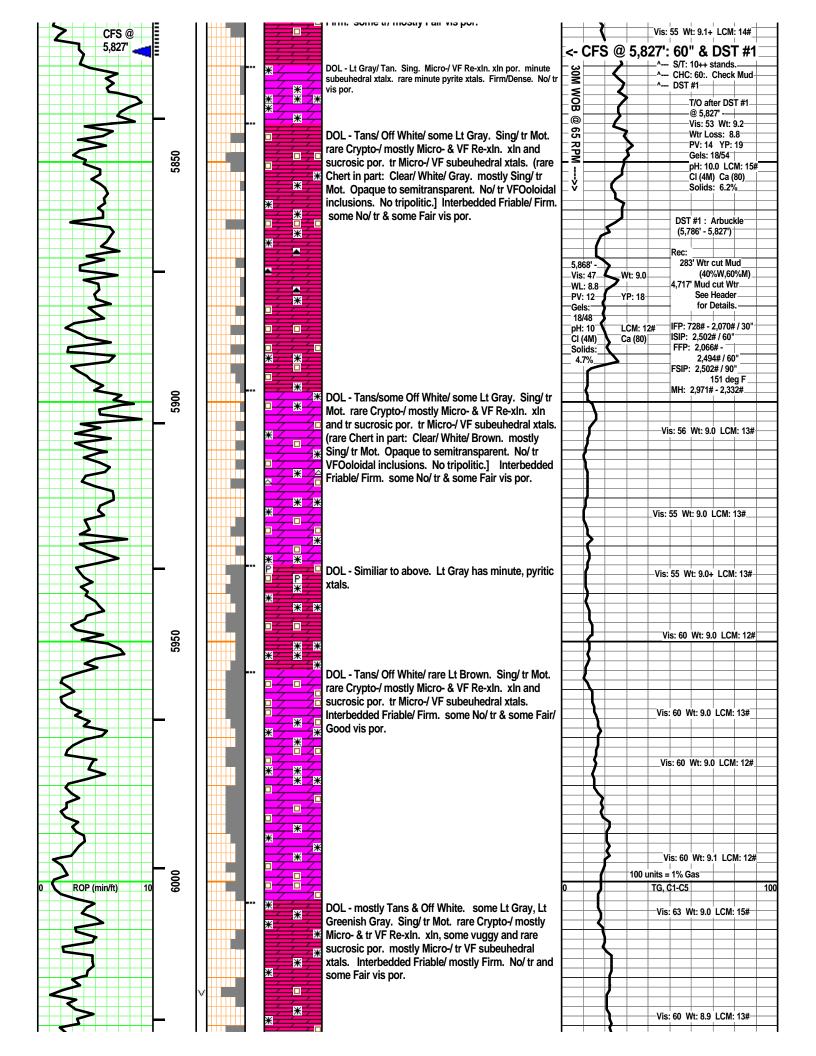
Curve Track 1		П		TG C1-C		TG, C1-C5	
ROP (min/ft)———							TG (Units)
			,				C1 (units)
	Depth	Type	Porosity	s N	Lithology	Geological Descriptions	C3 (units)
		orosity	orc	Į į			C4 (units)
		•					C5 (units)
		Ц	24% 18% 12% 6%	L			
0 ROP (min/ft) 10	48						0 TG, C1-C5 100 Geolog PC:
		Н					Dry Wt of Collars: 73,025#
		H		1			[117.2' x 140.5#/ft = 16,467#]
							[616.44' x 91.75#/ft = 56,558] Drill Collars: 7-7/8" OD x 3" ID &
							6-1/4" x 2-3/16" ID
							Buoyancy Wt of Collars: 62,655# [73,025# x .858 (9.3ppg) = 62,655#]
		H					Available WOB: 53,257# [62,695# x .85 = 53,257#]
		Н					
							Weight Indicator Check @ 4,894.64'.
							DC - (See Ábove) = 73,025# DP - 2,899' x 16#/ft = 46,384#
	1 2						- 1,220' x 19.2#/ft = 23,424# Total Dry Wt = 142,833#
	4850	Н					Buoyancy Wt = 122,551#
							[142,833# x .858 (9.3ppg)] = 122,551#]
							Buoyancy Wt + Surface
		Н					Equipment = String Weight [122,551# + 24,000# = 146,551#]
\		Н					String Weight = 146,551#
\$							Weight Indicator shows 124M;
<i></i>							therefore, weight indicator
							light by about 15%. Contractor reports running
5							48M on bit on WI is actually 55,200# WOB.
3	<u>_</u>						-vs- Calculated 53,257# WOB
S	8						
	4900	Н					
\$							7
S		Н					Vis: 48 Wt: 9.3
3							LCM: 6.5#
		Н					
	L						
							Vis: 42 Wt: 9.3
3							LCM: 6#
							Vis: 45
	li i						Wt: 9.3 LCM: 4#
	4950						
	<u> </u>						
\					.		
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					<u> </u>		

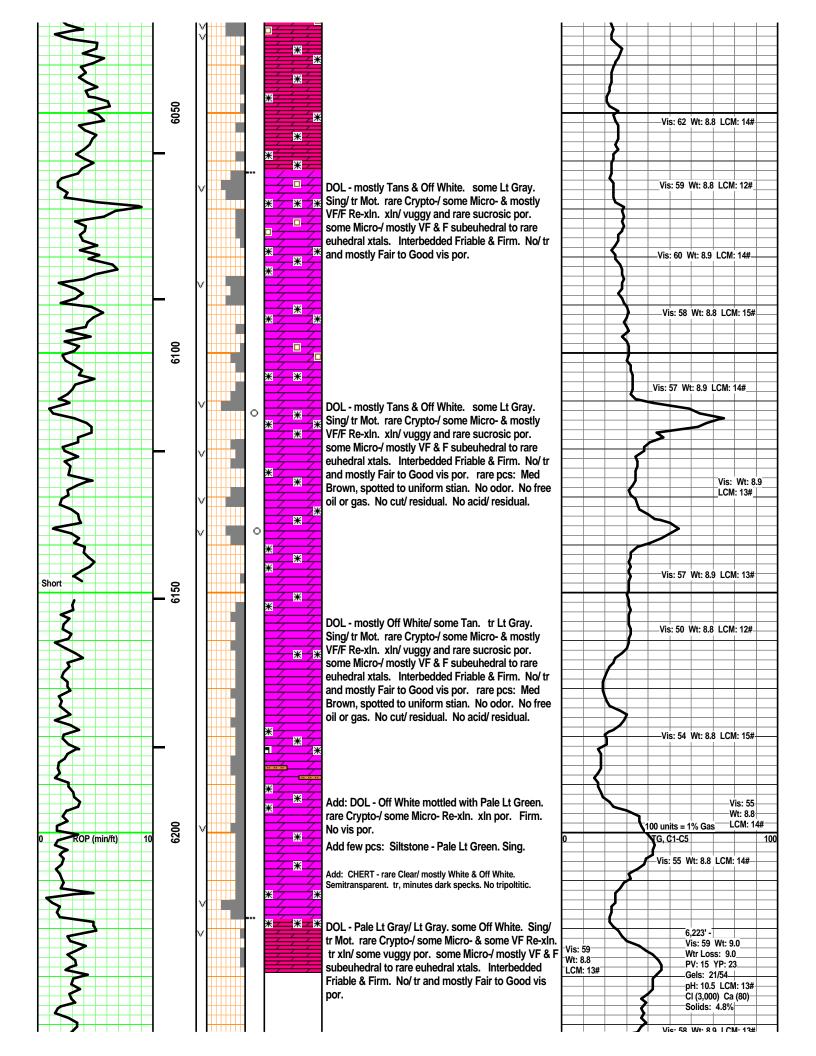












LOST CIRC @	6250			XXXX osing I			58 Wt: 9.	0 LCM: 1	14#
RTD: 6,262'			XX	(XXX	XXXX	RTD	_	XXXX	
No LTD:		HIBBARD #1 SWD							
	6300	250' FNL & 200' FEL, NE/4 23-T34S-R9W Harper County, Kansas		CC	Cu DVEY - 1		/ey		
		WOOLSEY OPERATING CO., LLC. Wichita, Kansas							