

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1056017

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 # 33168	API No. 15 - 15-007-23593-00-00
Name: Woolsey Operating Company, LLC	Spot Description:
Address 1: 125 N MARKET STE 1000	S2 - NE NE NE Sec. 16 Twp. 34 S. R. 11 ☐ East West
Address 2:	
City: WICHITA State: KS Zip: 67202 + 1729	
Contact Person: DEAN PATTISSON	Footages Calculated from Nearest Outside Section Corner:
Phone: (316) 267-4379	_
CONTRACTOR: License #33793	County: Barber
Name: H2 Drilling LLC	Lease Name: DIEL D Well #: 4
Wellsite Geologist: SCOTT ALBERG	Field Name: SCHUPACH
Purchaser: BLUESTEM GAS MKTG / PLAINS MKTG	Producing Formation: MISSISSIPPIAN
Designate Type of Completion:	Elevation: Ground: 1331 Kelly Bushing: 1340
✓ New Well Re-Entry Workover	Total Depth: 5175 Plug Back Total Depth: 4920
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: 243 Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used?
✓ OG GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data fills) be conscient from the Neserve Fit)
Original Comp. Date: Original Total Depth:	Chloride content: 36000 ppm Fluid volume: 1800 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SW	
Conv. to GSW	
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name: WOOLSEY OPERATING COMPANY LLC
Dual Completion Permit #:	Lease Name: SWARTZ License #: 33168
SWD Permit #:	Quarter NE Sec. 1 Twp. 34 S. R. 11 East / West
ENHR Permit #:	_
GSW Permit #:	County: BARBER Permit #: D30567
09/14/2010 09/23/2010 10/20/2010	
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: Deans Garrison Date: 05/23/20/kl

Side Two



Operator Name: Wo	olsey Operating (Compan	y, LLC	Lease	Name: _	DIEL D		Well #:4		<u> </u>	
Sec. 16 Twp. 34					_{y: Barb}						
INSTRUCTIONS: Shi time tool open and clo recovery, and flow rat line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressi st, along v	ures, whether si with final chart(s	hut-in pres	sure rea	ched static level,	hydrostatic p	oressures, bottom	hole temp	erature, fluid	
Drill Stem Tests Taker	•	₹ Y	es No		 ✓L	og Formatio	n (Top), Dept	h and Datum		Sample	
Samples Sent to Geo	•	✓ Y	es 🗌 No		Nam			Top 1762		Datum -422 -2344	
Cores Taken		ΩY	_		DOUG	_		3684	·		
Electric Log Run Electric Log Submitte	d Electronically	✓ Y			MISSI	SSIPPIAN		4551	-3	211	
(If no, Submit Cop))	_	_		SIMPS	SON		4981	-3	641	
List All E. Logs Run:											
Compensated Density/Co Dual Induction	mp Neutron PE										
		Repo		RECORD	√ Ne	ew Used ermediate, product	ion, etc.				
Purpose of String	Size Hole Driiled		te Casing t (In O.D.)		ight / Ft,	Setting Depth	Type of Cemen			end Percent dditives	
Attached	Attached	Attache	d	Attache	d	Attached	Attached	Attached	Attach	ed	
							-				
			ADDITIONAL	CEMENT	ING / SQL	JEEZE RECORD	<u> </u>				
Purpose: Perforate Protect Casing	Depth Top Bottom	Туре	of Cement	# Sack	s Used		Туре	and Percent Additive	s 		
Plug Back TD Plug Off Zone	-	•			. "						
Shots Per Foot			RD - Bridge Plug Each Interval Per					ement Squeeze Reco of Material Used)	rd	Depth	
4	4539-4542 & 456	2-4588				3050 GAL 1	0% MIRA			4539-4610 OA	
2	4550-4560 & 459	2-4610				367,700 gal t	reated 2% K	Cl wtr, 133,500# 3	30/70 sd,	:	
						25,000# 16/3	30 sd & 12,0	00# 16/30 resin o	coated sd	4539-4610 OA	
TUBING RECORD:	Size: 2.875	Set At: 4678		Packer /	At:	Liner Run:	Yes	No		_	
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod: Pumpi	ng 🗀	Gas Lift (Other (Explain) .				
Estimated Production Per 24 Hours	Oil 5	Bbis.	Gas 64	Mcf	Wat	er B 100	bls.	Gas-Oil Ratio 12800		Gravity	
DISPOSITI	ON OF GAS:		_	METHOD O	Dually	y Comp. Cor	mmingled	PRODUCTI 4539-4610 OA		VAL:	
, - -	bmit ACO-18.)		Other (Specify)		(Submit .	ACO-5) (Sub	mit ACO-4)				

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	DIEL D 4
Doc ID	1056017

Casing

CONDUC TOR	30	20	53	43	GROUT	4	(4yds not sx)
SURFACE	14.75	10.75	32.75	243	CLASS A	230	2% gel, 3% cc
PRODUC TION	7.875	5.5	15.5	4962	60/40 POZ	50	4% gel, ¼ # Celoflake
PRODUC TION	7.875	5.5	15.5	4962	CLASS H	130	10% salt, 10% Gypseal, 6# Kolseal, 1/4# Celoflake, .8% fluid loss

ALLIED CEMENTING CO., LLC. 036828

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 SERVICE POINT:

G-eg+ B =-445

DATE 9-15-10 14 345		CALLED OUT	ON LOCATION	JOB START	JOB FINISH
	11			COUNTY	STATE
LEASE ON WELL# Y	LOCATION MELL	ine boder	50-4-281	Barber	<u> </u>
OLD OR (EW) (Circle one)	To scott c	9	3 East 50w	143-c70	
CONTRACTOR H-2 R:5	<u> </u>	OWNER 🕶	oor san ol	<u> </u>	· Co·
TYPE OF JOB Surface	215	CERTERIE			
	245 TH 231.30	CEMENT	DERED 230	SV 61.	
	TH 18.50	AMOUNT UK	2% 6-1	VI CIA	03 14
	TH		~ 10 G+1		
	<u>тн</u>				
	NMUM	COMMON	234	@ 15.45	3.553. ⁵⁰
	DE JOINT	POZMIX			
CEMENT LEFT IN CSG. 20		GEL	4	@ 20.80	¥3. 20
PERFS.		CHLORIDE_	8	@ 58.20	455.40
DISPLACEMENT 22. 2 BBLS		ASC			
EQUIPMENT					
24011.411341			TC!		
PUMPTRUCK CEMENTER	TAT	ELLFI	تنديا	^	
# HELPER		Cotteshor	dence	_@	
BULK TRUCK .			KOABIS	_@	
# 344 DRIVER BILL	Ung	s / Meters Ope	Harro		
BULK TRUCK	10			@	
# DRIVER				_@	
	····	HANDLING_	236	@ <u>2.40</u>	552.00
		MILEAGE A	30 x 12 x.		
REMARKS:				TOTAL	4.966, 30
Pipe on Bossom B-	<u>.ak ci-eulatio</u>	^			••
with Ris much Shut	Carre at		SERVI	CF	
			SERVI	CE	
HOOK 40 To coment h	ine mix 23a	-			
Sh class A 390 12 286	ine mix 23a Sel	DEPTH OF JO	DB 243.3	•	
Have up To general h. 5x class A 3% 4 2% (Displace 22:23 BOLS A-e	ine mix 23a Schoolsto	DEPTH OF JO PUMP TRUCK	0B 243. 8	0	018.00
Haak 40 To coment h 5x class A 38 44 286 Displace 22:23 BOLS Are Coment Ald Circult	ine mix 23a Schwater stership	DEPTH OF JO PUMP TRUCI EXTRA FOOT	OB		
Have up To sement h Sh Class A 3% 11 2% (Displace 22:23 BOLS Are	ine mix 23a Schwater stership	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE	OB	@ 	84.00
Hack up To coment h SX Class A 3% 11 2% Displace 22:23 BOLS Are Coment all circult	ine mix 23a Sel Showater ate 3hatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE	08	@ 	84.60
Hack up To coment h SX Class A 3% 11 2% Displace 22:23 BOLS Are Coment all circult	ine mix 23a Schwater ate . 3hat in	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE	08	@ 	84.60
Hack up To coment h SX Class A 396 12 286 Displace 22.23 BBLS A-c Cemant all circult Wath up Rig Dow	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE	08	@ 	84.00
Haak 40 To coment h 5x class A 38 44 286 Displace 22:23 BOLS Are Coment Ald Circult	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE	08	@ 7.0° @	84.00
Hack up To coment h SX Class A 396 12 286 Displace 22.23 BBLS A-c Cemant all circult Wath up Rig Dow	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE	08 243. 3 C CHARGE TAGE	@ 7.0° @	84.60
Hack up To coment he Sh Class A 3% 12 2% 12% 12% 12% 12% 12% 12% 12% 12%	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE	08 243. 3 C CHARGE TAGE	@ 7.0° @	84.00
Hack up To coment he Sx closs A 3800 2860 Displace 22.23 BBLS Are Coment ally circult wash up Rig Dow	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	@	84.00
Hack up To coment he Sh Class A 3% 12 2% 12% 12% 12% 12% 12% 12% 12% 12%	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	@	84.00
Hack up To coment he shall also a 380 cc 286	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	@ 7.00 @ 7.00 @ @ ###########################	84.00 //02.60
Hack up To coment he Sh Class A 3% 12 2% 12% 12% 12% 12% 12% 12% 12% 12%	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	@ 7.00 @ 7.00 @ @ TOTAL	84.00 . 1/02.60
Hask up To coment h Sh Class A 3% 12 2% (Displace 22:23 BOLS A-e Coment dist circult wash up Rig Dow CHARGE TO: wooley open STREET CITY STATE	ine mix 23a fel sch water ate 3tatin	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	O TOTAL TEQUIPMEN O O O	84.00 . 1/02.60
Hack up To cement he Shalas A 3844 2864 2864 2864 2864 2864 2864 2864 2	caping co.	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	@ 7.00 @ 7.00 @ @ TOTAL	84.00 . 1/02.60
CHARGE TO: Waskey OPEN STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cent	ZIP	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	TOTAL TEQUIPMEN	84.00 . 1/02. 60
CHARGE TO: WOOLEY OPEN STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cent and furnish cementer and helper(s) to	ZIP	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	TOTAL TEQUIPMEN	84.00 . 1/02.00
CHARGE TO: Washey OPEN STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cent and furnish cementer and helper(s) to contractor to do work as is listed. The state of the contractor to do work as is listed.	ZIP	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	TOTAL TEQUIPMEN	84.00 //oz.00
CHARGE TO: Washey STATE To Allied Cementing Co., LLC. You are hereby requested to rent cen and furnish cementer and helper(s) to contractor to do work as is listed. Ti done to satisfaction and supervision	ZIP	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE "MANIFOLD	08 243. 3 C CHARGE TAGE	TOTAL TEQUIPMEN	84.00 //oz.00
CHARGE TO: Washey age. CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cent and furnish cementer and helper(s) to contractor to do work as is listed. To done to satisfaction and supervision contractor. I have read and understated.	ZIP menting equipment or assist owner or ne above work was of owner agent or and the "GENERAL"	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE MANIFOLD	OB 243. 3 C CHARGE TAGE / 2 PLUG & FLOAT	TOTAL TEQUIPMEN	84.00 //oz. 00
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CHARGE TO: Washey age. CHARGE TO: Washey age. STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cent and furnish cementer and helper(s) to contractor to do work as is listed. The done to satisfaction and supervision contractor. I have read and understated the contractor.	ZIP	DEPTH OF JO PUMP TRUCI EXTRA FOOT MILEAGE MANIFOLD	OB 243. 3 C CHARGE CAGE / 2 PLUG & FLOAT	TOTAL TEQUIPMEN	84.00 //oz. 00
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ALLIED CEMENTING CO., LLC. 042212

REMIT TO P.O. BOX RUSSEL		NSAS 6766	55			SER	VICE POINT:	reledget
DATE()9 24 10 S	EC/6	34,	RANGE // W		ALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE DIE D V	VELL#	4	LOCATION 2	181 ¢ A	Rattlesnate	Rd, 3 / w/o	COUNTY	STATE
OLD OR NEW (Circle								
CONTRACTOR			- -		OWNER	Woolsey	9000	
TYPE OF JOB Pa.	duc	tion Ca	(/ ()			7)3013 49	7 30/	***
HOLE SIZE 7/4		T.D.	. 5175		CEMENT	~~ <u> </u>	1-0.11	1111
CASING SIZE 5	<u>~</u>			4962	AMOUNT OF	RDERED 75 S	x 60.70 Sx Jass H	
TUBING SIZE 22		DEI DEI			+10% 40	+ 6 47/50	+4 " Fl.	J+ 8% F
TOOL			тн		1: - 79//	29 als Chypno.		
PRES. MAX / 500		MIN	NIMUM -		_COMMON_	45 ATT	_@_ 	695.25
MEAS, LINE		SHO	DE JOINT 4	舞 42.	/2POZMIX _	<u> 3≿</u>	@ % . ĐU	240 -
CEMENT LEFT IN C PERFS.	SG. C	-			GEL CHLORIDE _		_@ <u>_{</u>	62.40
DISPLACEMENT	118	BL/s	1% KCL	Jahr.	ASC			
D.0.12.102.112.11		JIPMENT		~	Hoseal	51.25	<u>್ಮವ್ಯಾ</u>	128-12
	LQt	788 17882171		,	Class H	B QSX	_@ <i>_1</i> <u>6</u> .7S	2177.5
PUMPTRUCK CE	EMENT	ER to F	al ci		GYRSEG		_@ <i>_79.20</i>	379.60
		m. Th	imesch		Soft	/4 sx	_@ <i>12</i> ; <u>9</u> 0	294.20
BULK TRUCK			14		Lolyn	97.76	@ <u>.27</u> @ <u>./3.3</u> 0	1300.00
	RIVER	K. Gi	lles		TO DEV	12 99/5	- 627.30	375.40
BULK TRUCK		VV	ELL]			0/40	@	<u></u>
# DI	RIVER		ul <u>stery</u> Come	. <u>15011042</u>	HANDLING	254, ,	@ 2.40	609-60
J.		Drig Tests MARKS:	/Comp	Workeye Churshir	າ MILEAGE _	254/10/1	<u> </u>	381.00 7211.4
tail Coment; Rolense Plus. S	1),x = 5 5 +0 +0.00	Pump, W Drips	July warp	17: ₂₈ (3 4	F . ✓ DEPTH OF J	SERVI OB <u>4962</u>	ICE	
See-Steady in	وليبشمن		T, Slow Kas	<u> </u>	PUMP TRUC		<u> 2185 - "</u>	
Plant Did Ho		A Disp	, <u>(Classe</u>	PE,	EXTRA FOO	TAGE	- @ 	
Float Via H				is .	MILEAGE_	Headfahtal	_@ 	105 -
			4 1	-	MYMILOTD		- @ 	
1.1			•		7,0		_ @	
CHARGE TO: w_{ϵ}	olse	4 Open.						•
STREET		<i>1</i> \		<u>*</u> _			TOTAL	<i>7290</i> –
CITY	\$1	ATE	ZJP			PLUG & FLOA	T EOUIPME	NT
•					I-AFU	Floort Shoe	@	214.20
					1- Latch	dawn Pluz 1955)	L. @	163.80
To Allied Cementin	ig Co.,	LLC.			11- tuelo	lizers !	_@ <i>40.60</i>	3000
You are hereby requ					15-Rea	p. Scartcheas	@ _/<i>2-</i>79 @	J7-10
and furnish cement					-	· É	_ ~	
contractor to do wo							TYCTA	1183-70
done to satisfaction							IOIAI	
contractor. I have r TERMS AND CON					SALES TAX	(If Any)		
TERMIS MIND CON	אוועי	1140 11966	i on me teact	ac aiue.	TOTAL CHA			ı
PRINTED NAME	<		Alb					
PRINTED NAME	<u> </u>	SOFF.	171 000		DISCOUNT		IF PA	ID IN 30 DAYS
			(M)			1869	2 <i>6</i> 000	
SIGNATURE	1	<u></u>				1800	منعنوت	



Woolsey Operating Company, LLC

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

Well Name: Diel #D 4 Location: S2 NE NE NE

License Number: API: 15-007-23593-00-00

Region: Barber County, Kansas Spud Date: September 14, 2010 Drilling Completed: September 24, 2010

Surface Coordinates: 500' FNL, 330' FEL Section 16-Twp 34 South - Rge 11 West

Field Schupach

Bottom Hole Vertical Hole

Coordinates:

Ground Elevation (ft): 1331' Logged Interval (ft): 2600

K.B. Elevation (ft): 1340'

Total Depth (ft): 5175

To: 5175

Formation: McLish Sand

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	4313(-2973)	4320(-2980)
B/KC	4365(-3025)	4370(-3030)
PAWNEE	4457(-3117)	4462(-3122)
CHEROKEE GROUP	4506(-3166)	4514(-3174)
CHEROKEE SAND	4533(-3193)	4539(-3199)
MISSISSIPPIAN	4542(-3202)	4550(-3210)
COWLEY C2	4582(-3242)	4589(-3249)
COMPTON LIMESTONE	4743(-3403)	4744(-3404)
KINDERHOOK SHALE	4753(-3413)	4756(-3416)
WOODFORD SHALE	4835(-3495)	4840(-3500)
MAQUOKETA	4863(-3523)	4870(-3530)
VIOLA	4886(-3546)	4892(-3552)
SIMPSON GROUP	4981(-3641)	4983(-3643)
SIMPSON WILCOX	5006(-3666)	5006(-3666)
MCLISH SHALE	5049(-3709)	5053(-3713)
MCLISH SAND	5128(-3788)	5133(-3793)
RTD	5175(-3835)	` '
LTD		5182(-3842)

COMMENTS

Surface Casing: Set 6 joints 10 3/4" at 243' (tally 231') with 230 sxs Class A, 2% gel, 3% cc, plug down at 4:45 am on September 15, 2010. Cement did Circulate.

Production Casing: 5 1/2" Casing Ran, set at 4962' w/ 50 sks 60/40 poz, 130 sks Class H. 25 sks 60/40 poz in Rathole.

Deviation Surveys: 245-3/4, 742 1/2, 1253 1/4, 1759 1/4, 2268 1, 2588 3/4, 30923/4, 3600 1, 4045 3/4, 4600 3/4, 5175 1.

Pipe Strap @ 4045', Strap 4034.98 - 4033.46 (Board) = Strap long 1.52', no correction.

Contractor Bit Record: 1-14 3/4" out at 245'

2- 7 7/8" PDC Smith out at 4045' 3 - 7 7/8" Smith F 27 out at 5175'

Gas Detector: GeoDynamics Well Logging, Unit 16

Mud System: Mud Co, Brad Bortz, Jason Witting, Engineers

DSTs: One DST, See DST Remarks

DSTs

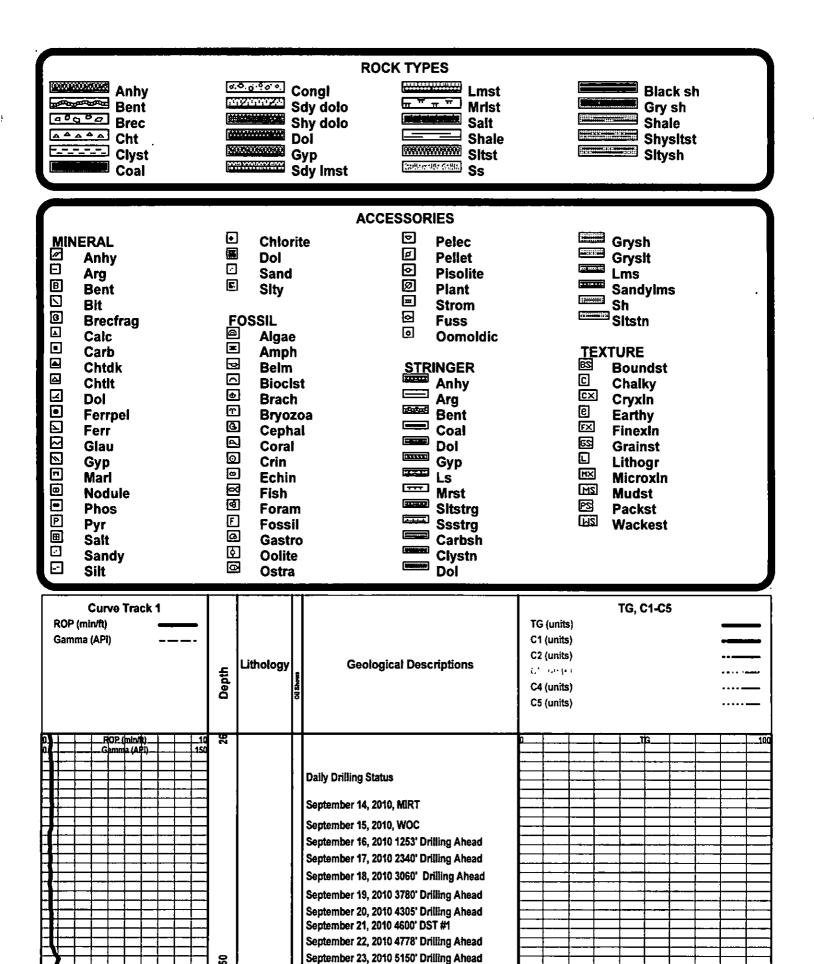
DST #1 4475 to 4600' Mississippian Times 30-60-60-120

SB both openings, No GTS IHP 2347 FHP 2262 IFP 46-88 FFP 66-132 ISIP 1302 FSIP 1400

Recovery: 77' DM, 63' DM w/ few oil specks.

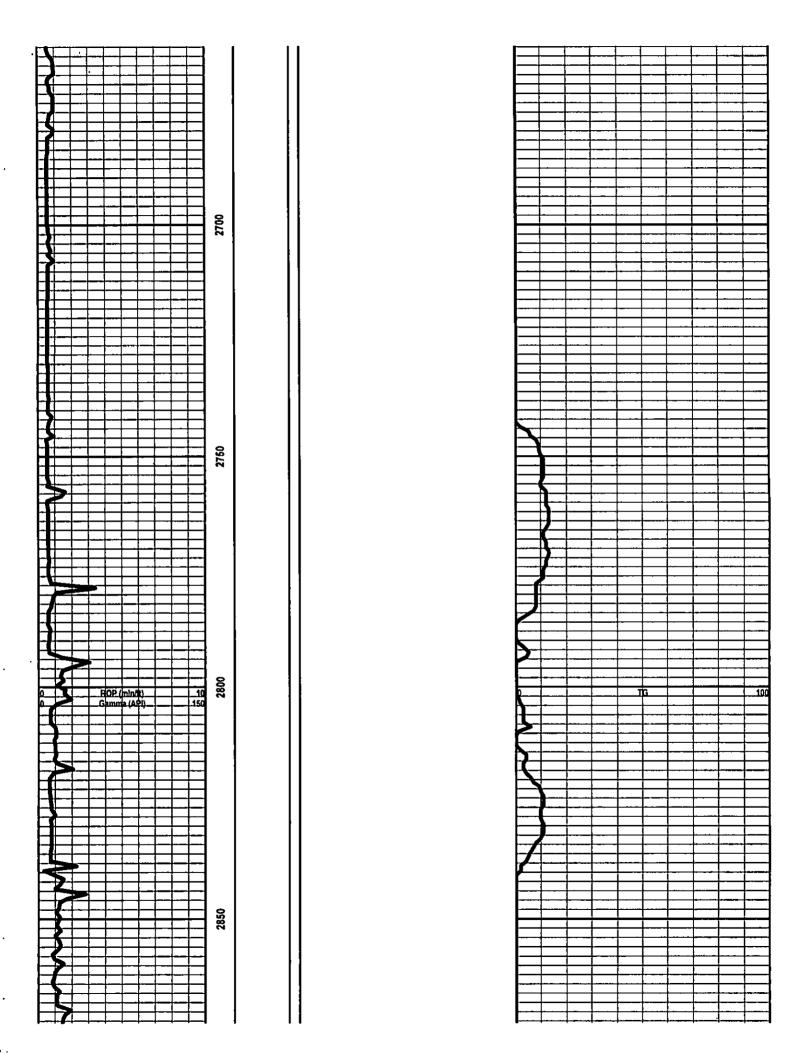
CREWS

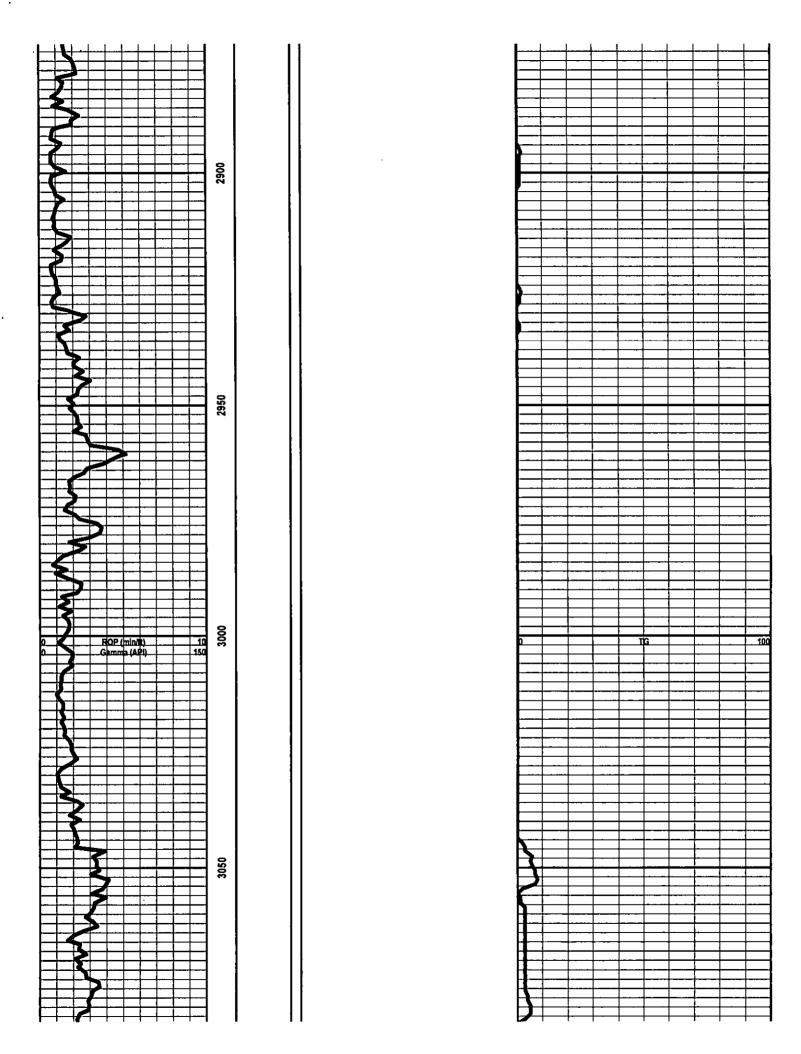
H2 Drilling Rig #3
Tool Pusher - James Schultz
Drillers - Jose Ortiz
Guillermo Alarcon
Randon Smith
Jose Fabla

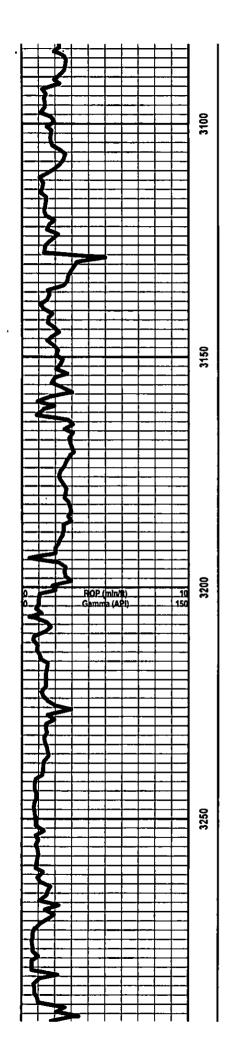


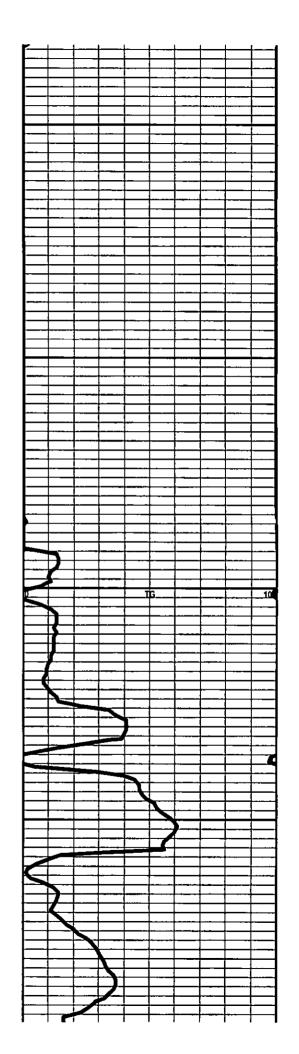
September 24, 2010 5175' Finish Running

Casing

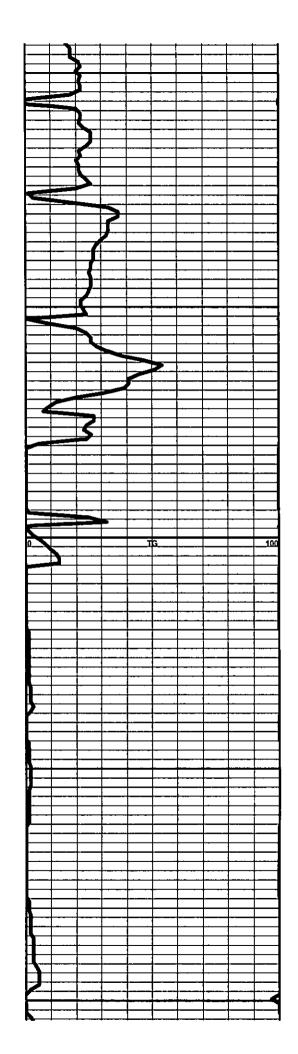


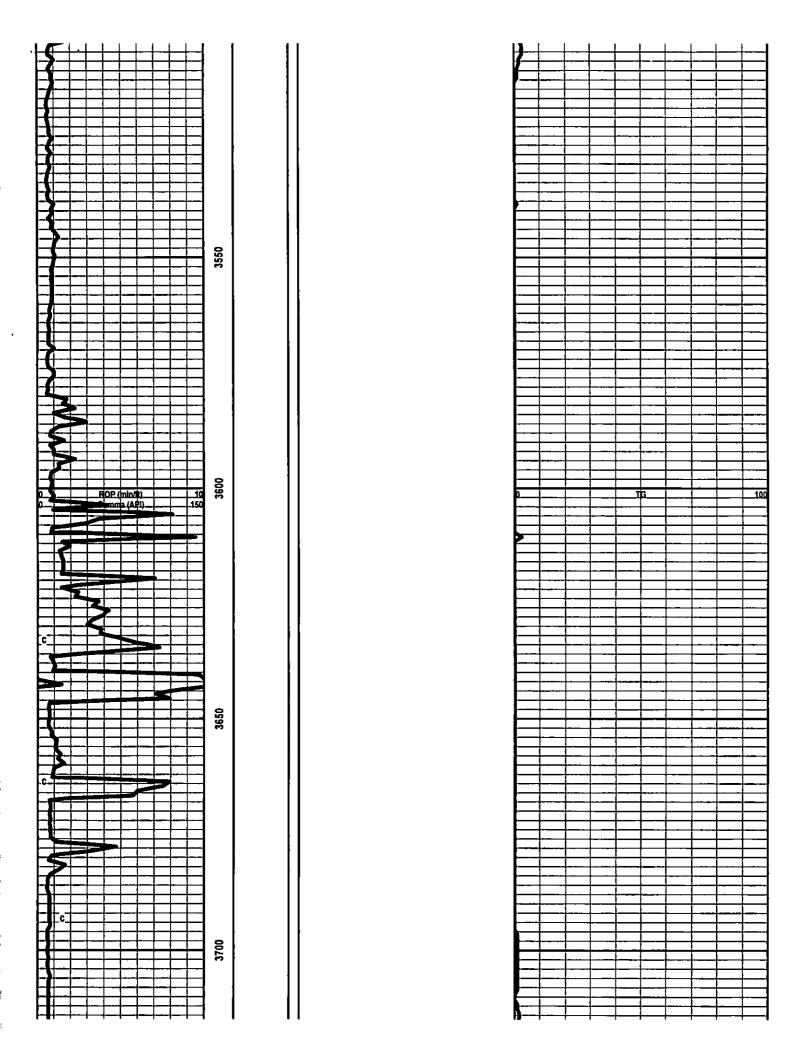




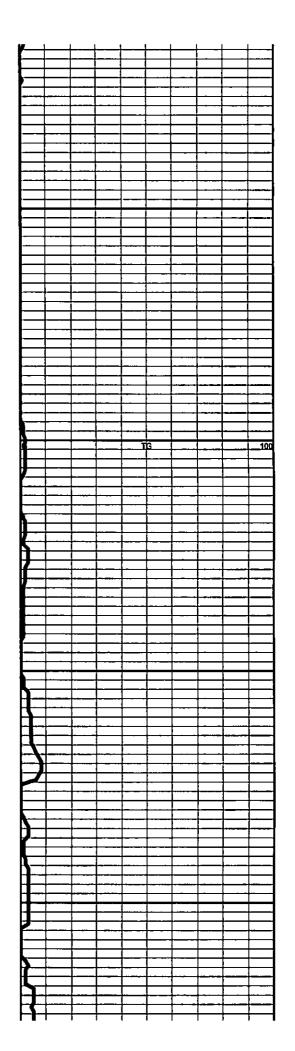


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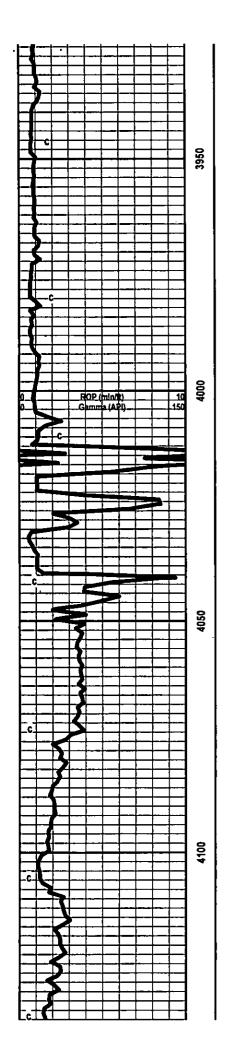


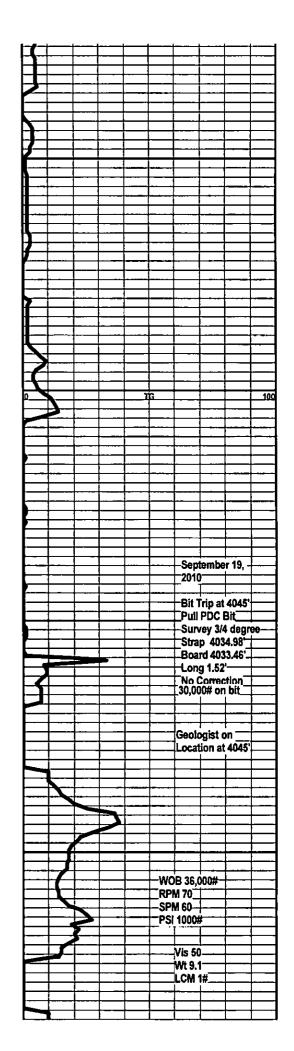
150 ROP (min/k) Gamma (API)

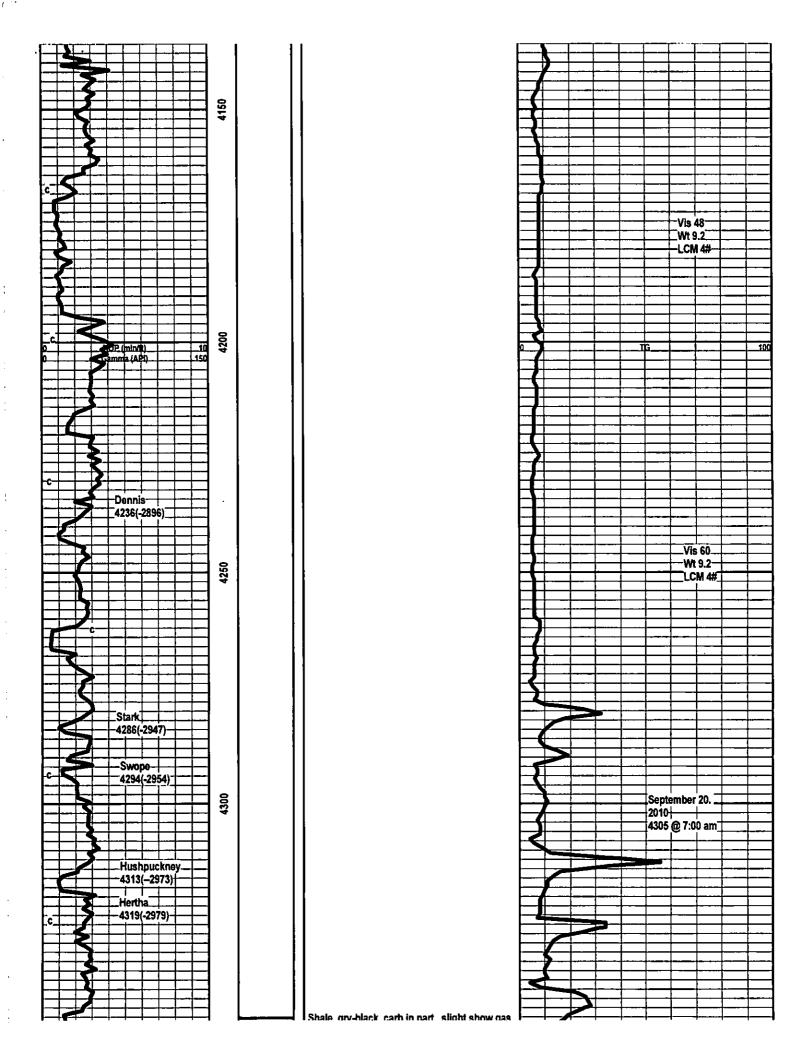


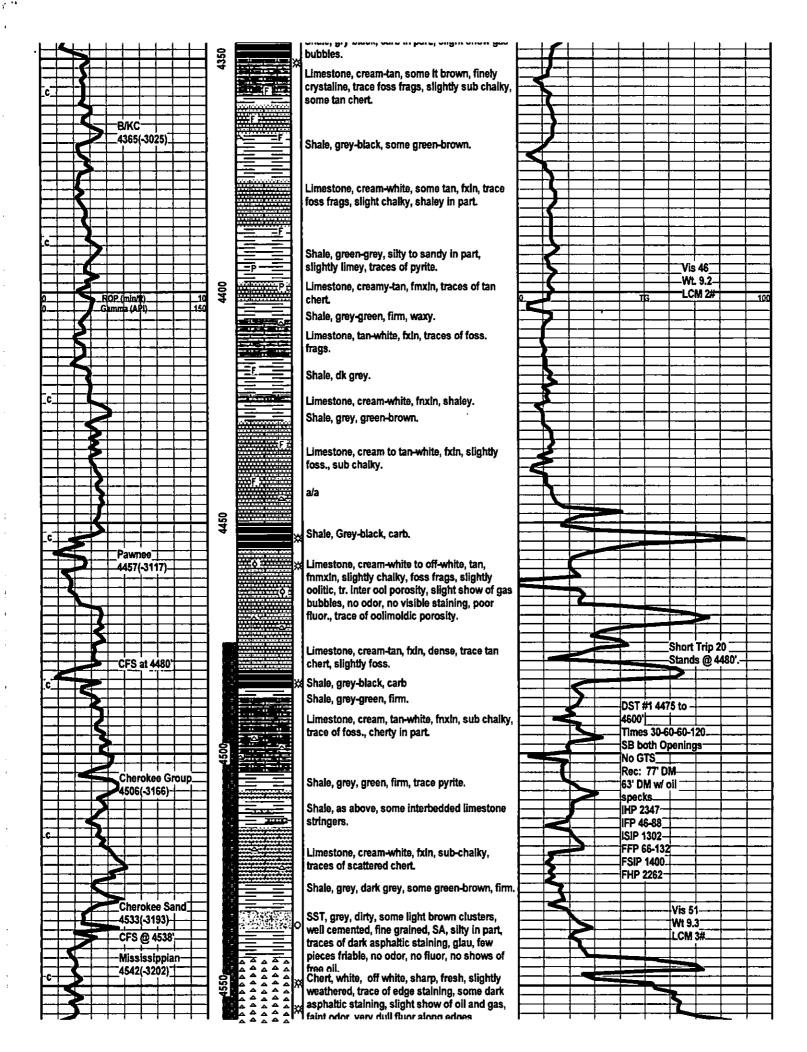
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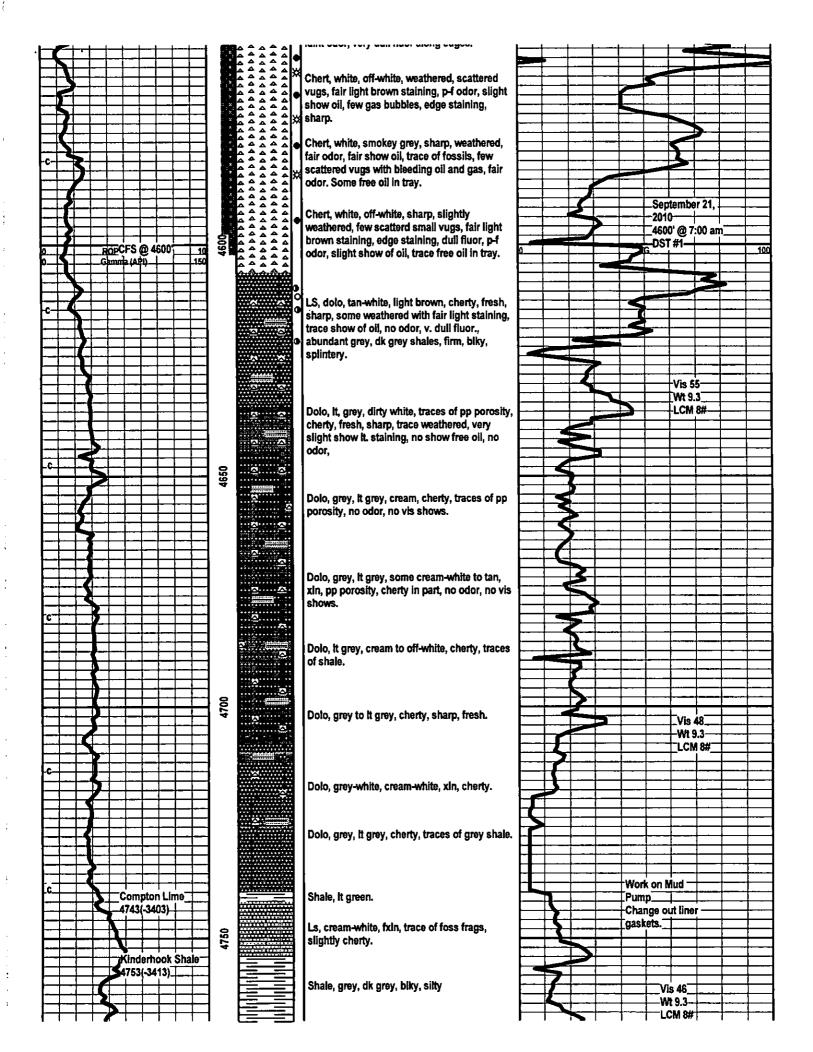
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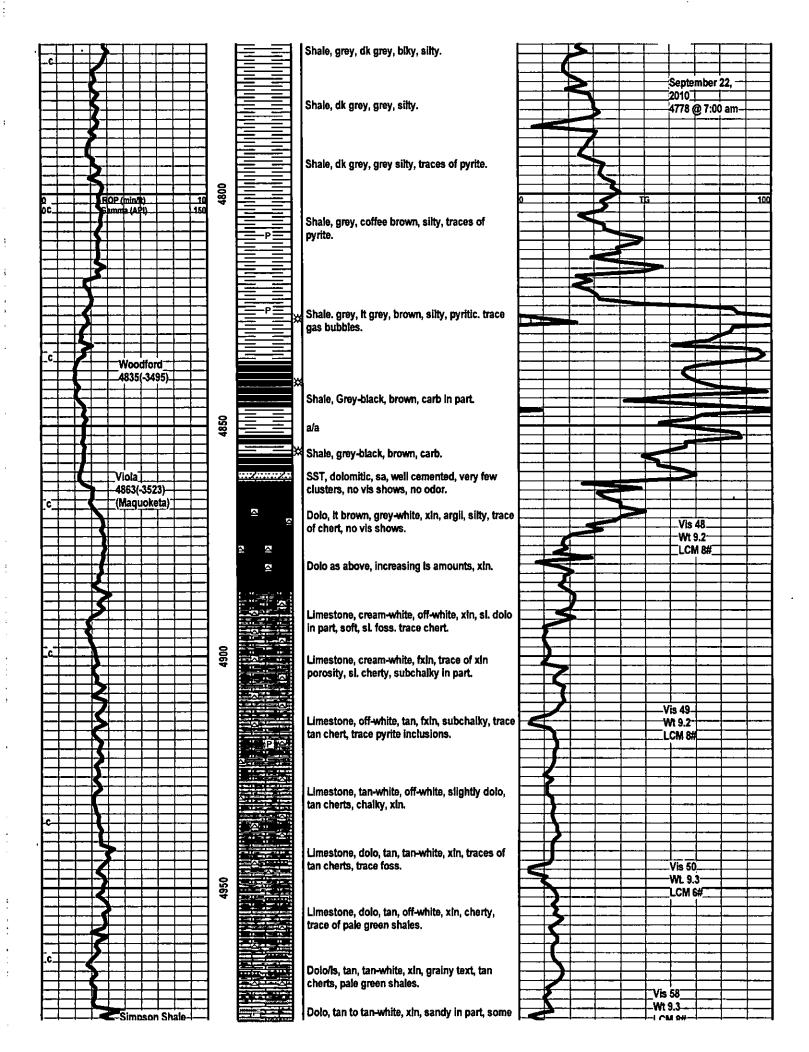


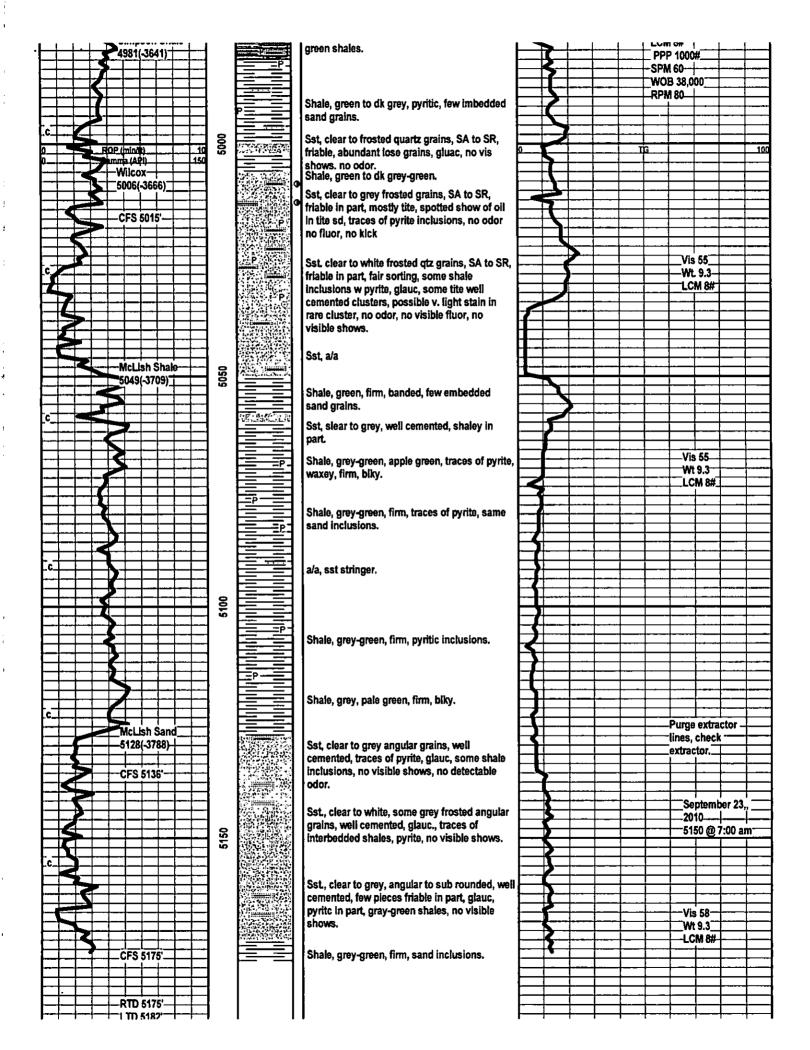












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DRILL STEM TEST REPORT

Woolsey Operating Company

Diel D#4

125 N Market Ste 1000 Wichita KS 67202

16 34s 11w Barber

Job Ticket: 37539

DST#: 1

ATTN: Scott Alberg

Test Start: 2010.09.21 @ 05:43:13

GENERAL INFORMATION:

Time Tool Opened: 08:38:43

Time Test Ended: 15:45:13

Formation:

Miss

Deviated:

Interval:

No

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Esak Hadley

Unit No:

34

1340.00 ft (KB)

Reference Bevations:

1331.00 ft (CF)

Total Depth: Hole Diameter: 4600.00 ft (KB) (TVD) 7.88 InchesHole Condition: Fair

4475.00 ft (KB) To 4600.00 ft (KB) (TVD)

KB to GR/CF:

9.00 ft

Serial #: 6753 Press@RunDepth: Outside

132.13 psig @

4476.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time: 2010.09.21 05:43:18 End Date: End Time: 2010.09.21

Last Calib.:

2010.09.21

15:45:13 Time On Btm: Time Off Btm:

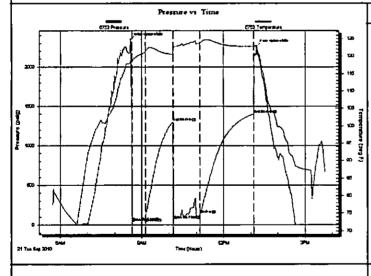
2010.09.21 @ 08:35:13 2010.09.21 @ 13:13:13

TEST COMMENT: IF Fair to strong blow BOB in 4 min.

ISI No blow.

FF Strong blow . BOB in 2 sec.

FSI No blow.



PRESSURE SUMMARY

			·- • • · · · · · · · · · · · · · · · · ·
Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2346.76	118.60	Initial Hydro-static
4	45.98	118.56	Open To Flow (1)
33	87.59	121.23	Shut-In(1)
93	1302.08	120.58	End Shut-In(1)
95	66.04	122.17	Open To Flow (2)
153	132.13	123.81	Shut-In(2)
272	1399.84	122.83	End Shut-In(2)
278	2261.83	123.09	Final Hydro-static
	,		

Recovery

Description	Volume (bbl)
drlg mud w / oil specs	0.31
drlg mud	0.38
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	<u> </u>
	drlg mud w / oil specs

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcl/d)



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

Diel D#4

125 N Market Ste 1000 Wichita KS 67202

16 34s 11w Barber Job Ticket: 37539

DST#:1

ATTN: Scott Alberg

Test Start: 2010.09.21 @ 05:43:13

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal Mud Weight:

Viscosity:

48.00 sec/qt Water Loss: 10.38 in³

Resistivity: Salinity: Filter Cake:

0.00 ohm.m 5600.00 ppm

0.20 inches

Cushion Type:

Cushion Length: Cushion Volume:

Oil API: Water Salinity: deg API ppm

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Vatume bbl
63.00	drig mud w / oil specs	0.310
77.00	drlg mud	0.379

Total Length:

140.00 ft

Ref. No: 37539

Total Volume:

0.689 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Printed: 2010.09.21 @ 16:58:43 Page 2

