

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1081569

Form ACO-1
August 2013
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
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SHOW □ Gas □ D&A □ ENHR □ SIGW □ OG □ GSW □ Temp. Abd. □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. Twp. S. R. East West County: Permit #:

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								
Confidentiality Requested								
Date:								
Confidential Release Date:								
Wireline Log Received								
Geologist Report Received								
UIC Distribution								
ALT I II Approved by: Date:								

Page Two



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	Sacks Used		Type and Pe	ercent Additives	
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Caerus Kansas LLC
Well Name	Mortimer 31-32
Doc ID	1081569

All Electric Logs Run

Dual Induction	
MicroLog	
Porosity	
Sonic	

				JEFF LAWLER		By	Witnessed By
<<<				JASON CAPPELLUCCI	JAS(Ву	Recorded By
: Fo				HAYS, KS.			Location
old I				680		t Number	Equipment Number
Her				110F	perature	Maximum Recorded Temperature	Maximum
e >:						Time Logger on Bottom	Time Log
>>				2 HOURS		Time Circulation Stopped	Time Circ
				.38 @ 110F		_	Rm @ BHT
				MEASURED		Source of Rmf / Rmc	Source of
				.62 @ 82F		Rmc @ Meas. Temp	Rmc @ M
				.39 @ 82F		eas. Temp	Rmf @ Meas. Temp
				.52 @ 82F		as. Temp	Rm @ Meas. Temp
				FLOWLINE		Sample	Source of Sample
				9.0/8.0		Loss	pH / Fluid Loss
				9.0/56		/iscosity	Density / Viscosity
		M	CHLORIDES 4000 PPM	CHEMICAL MUD	0	in Hole	Type Fluid in Hole
				7 7/8			Bit Size
				843		gger	Casing Logger
				8 5/8" @ 846'		ller	Casing Driller
				820		nterval	Top Log Inter∨al
				3411		Bottom Logged Interval	Bottom Lo
				3421		lger	Depth Logger
				3420		ler	Depth Driller
				TWO)er	Run Number
				4/25/12			Date
	G.L. 1851		SHING	n KELLY BUSHING	Drilling Measured From	Sta	Co We
	D.F. 1862		ISHING 13' A.G.L.	KELLY BUSHING	Log Measured From	unt ate	
	K.B. 1864	1851		GROUND LEVEL	Permanent Datum		any
	Elevation		RGE 13W	31 TWP 17S	SEC	В	М
	([[[П	U-7/00/04 VIND		ETTE ART(ANS/	ORT
	ODL/CNL		//NIE //NIE	2310' FNL & 1490' FEL		NC AS	IMEF
	Other Services	0000	#: 15-009-25680-0000	API#:	_ocation:	_	
	SAS	KANSAS	State	BARTON	County B/		AS, LL 1-32
				SETTE	Field SE		C.
			-32	MORTIMER #31-32	Well Mo		
			, c				
			AS II C	CAFRUS KANSAS I I C	Company C/		
					Kansas		
		`	FOG COME		Hays,	V]	WELL SERVICES
		* *	SONIC		SUPERIOR		

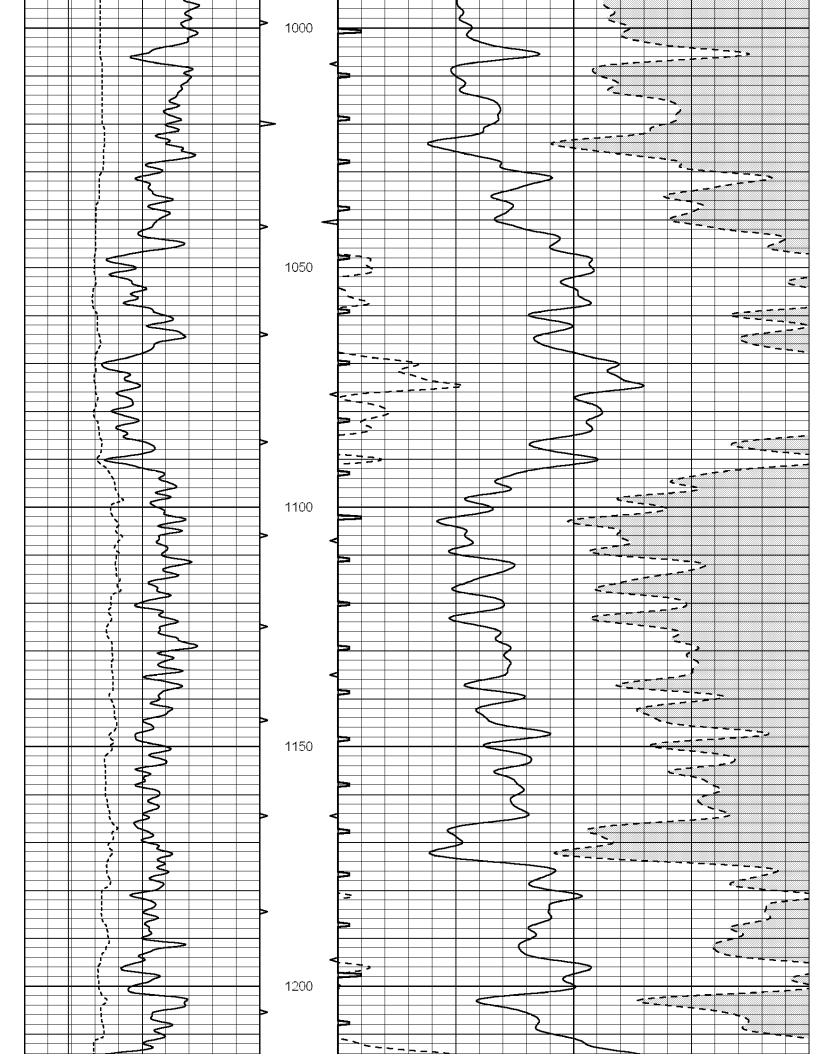
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

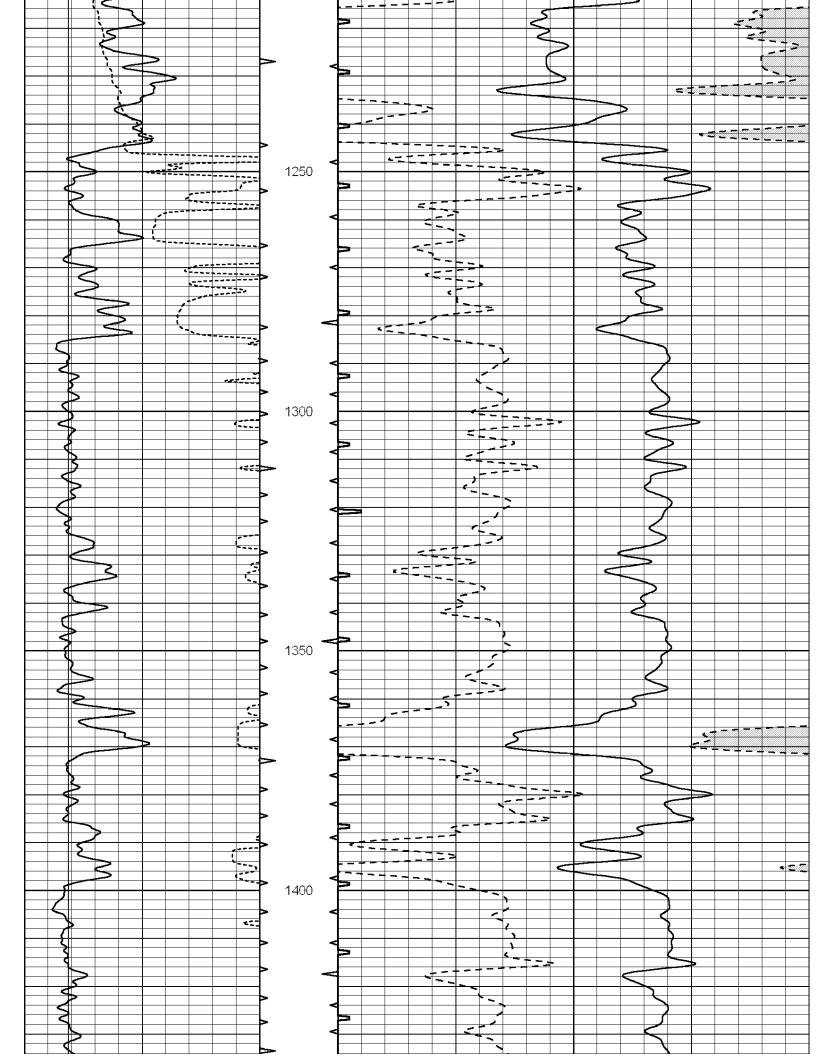
Comments

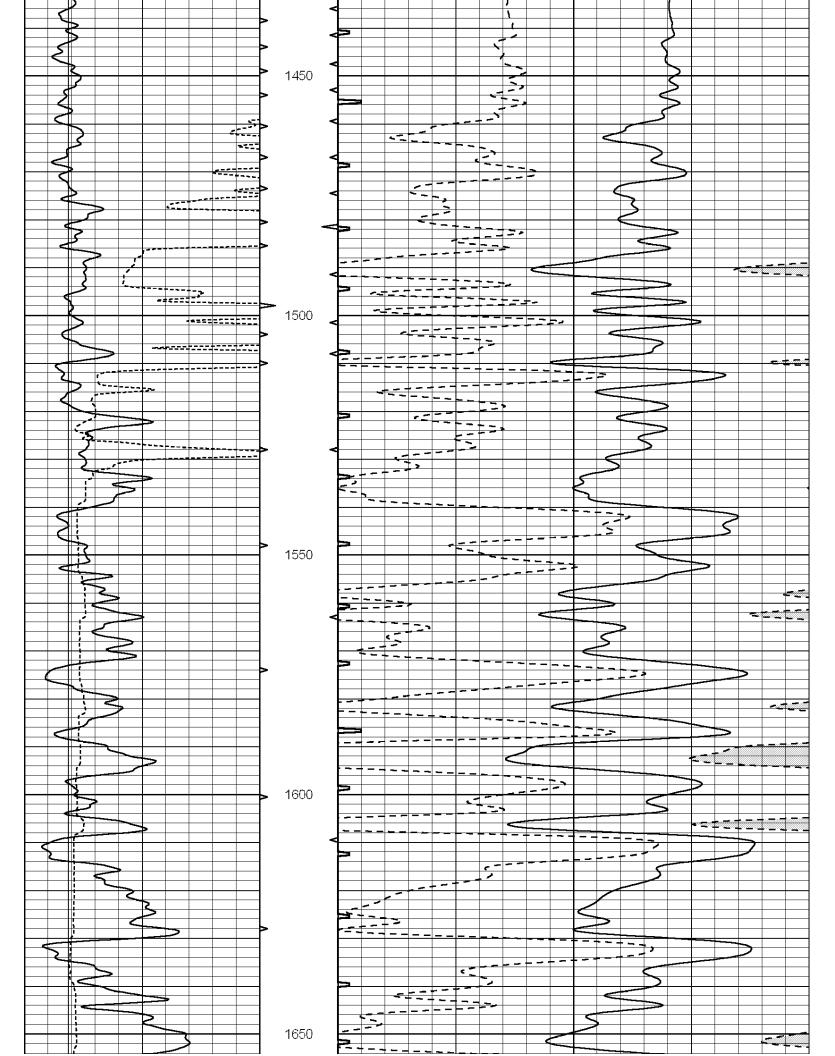
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395 DIRECTIONS RUSSELL, KS. - S. TO INTERSECTION OF HWY 281 & HWY 4 3 E. TO CURVE - 1/2 S. ON CURVE - W. INTO

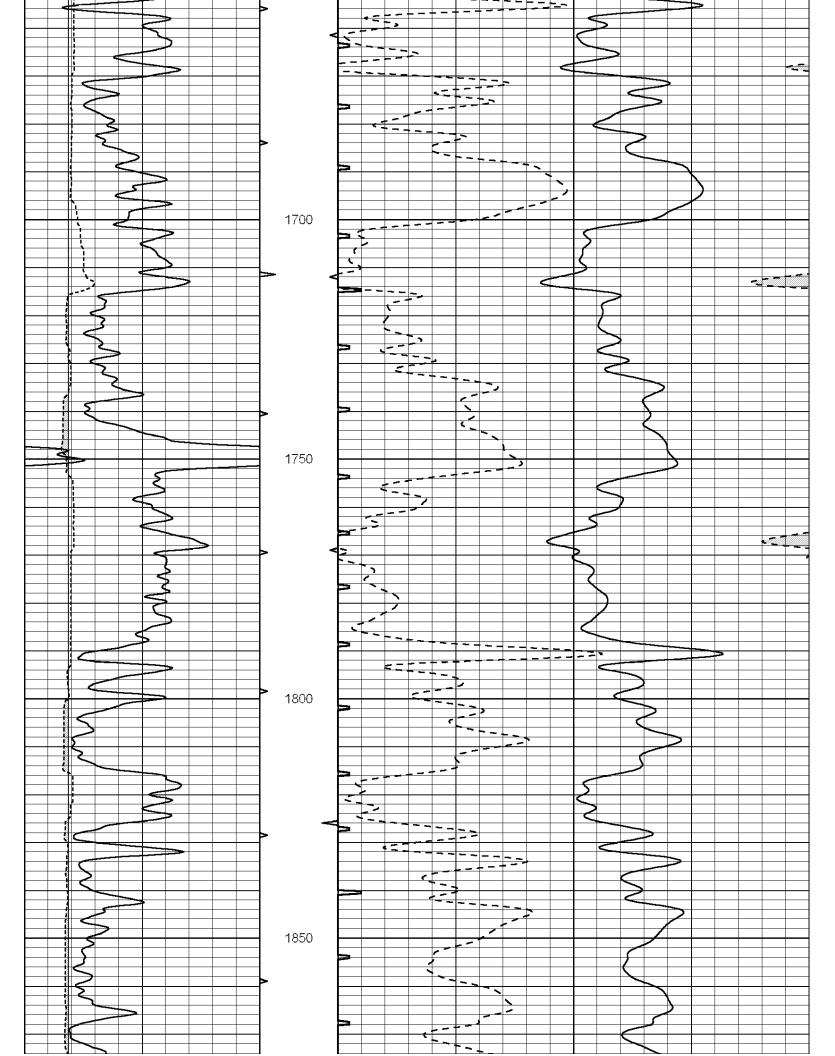


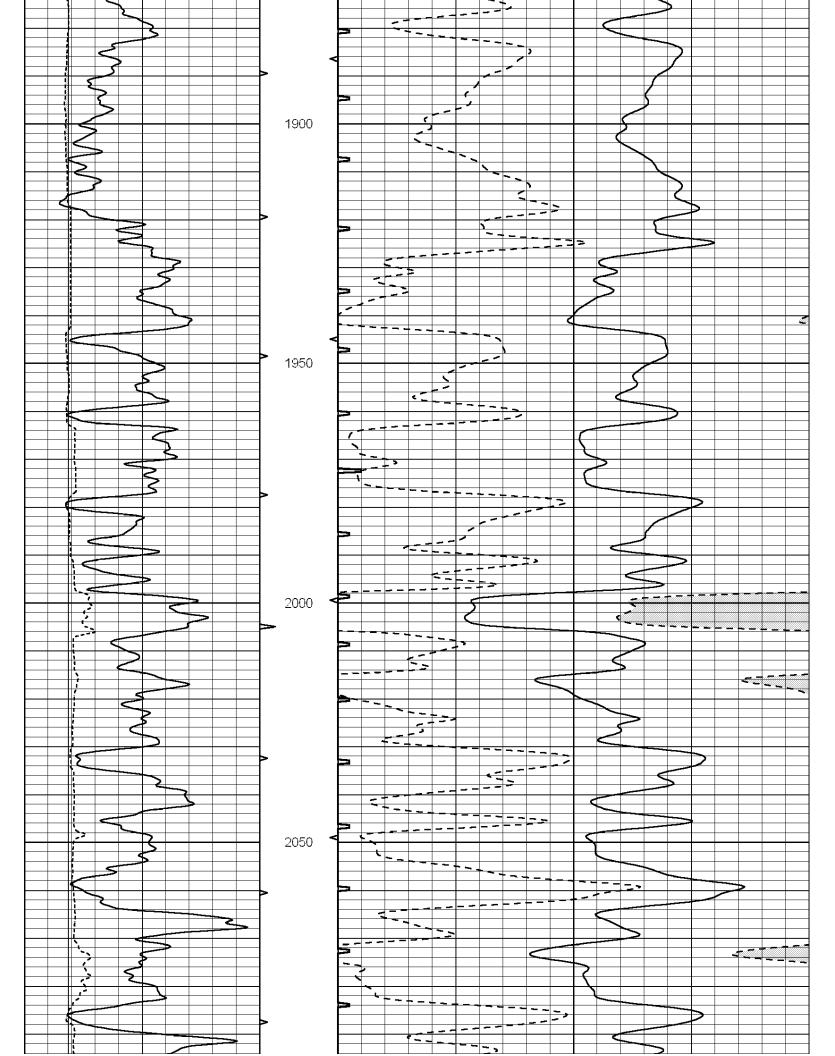
008849ddn.db Database File: pass7.2 Dataset Pathname: _slt Wed Apr 25 23:56:49 2012 by Calc Open-Cased 090629 Presentation Format: Dataset Creation: Charted by: Depth in Feet scaled 1:240 ABHV GAMMA RAY (GAPI) 150 140 DELTA TIME (usec/ft) 40 0 6 CALIPER (in) 16 10 (ft3) 0 30 SONIC POROSITY (pu) -10 TBHV 20 ITT (msec) (ft3) 10 850 900 950

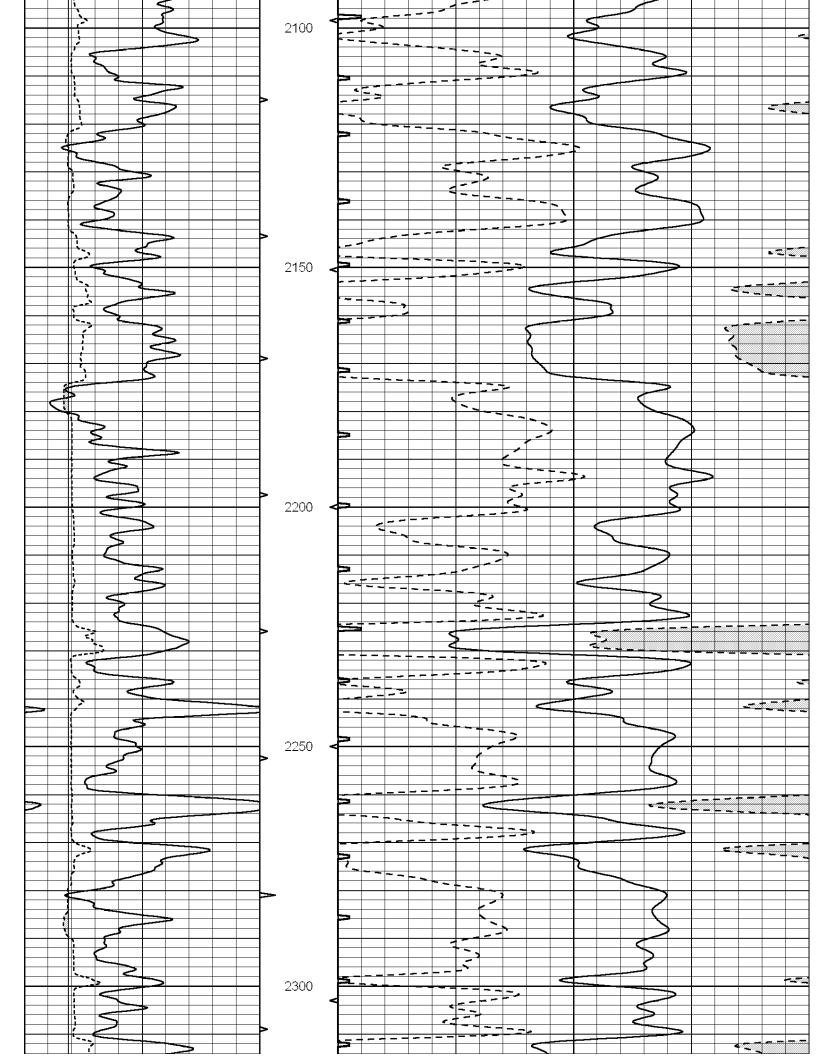


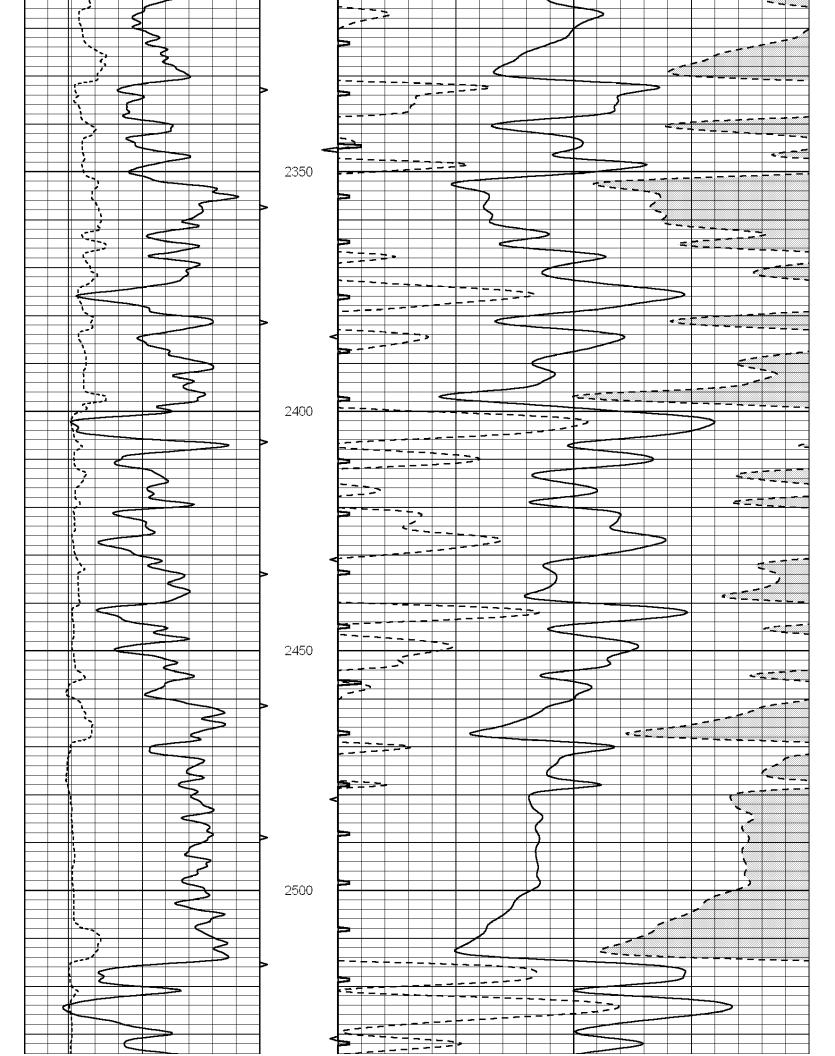


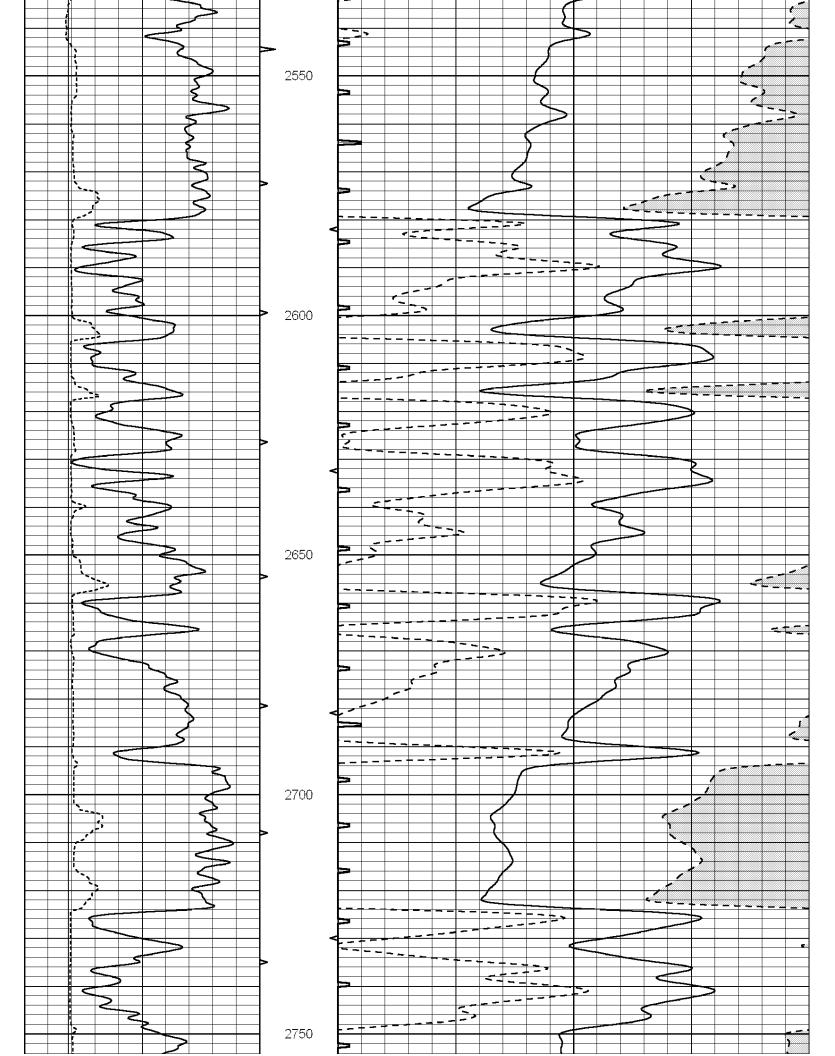


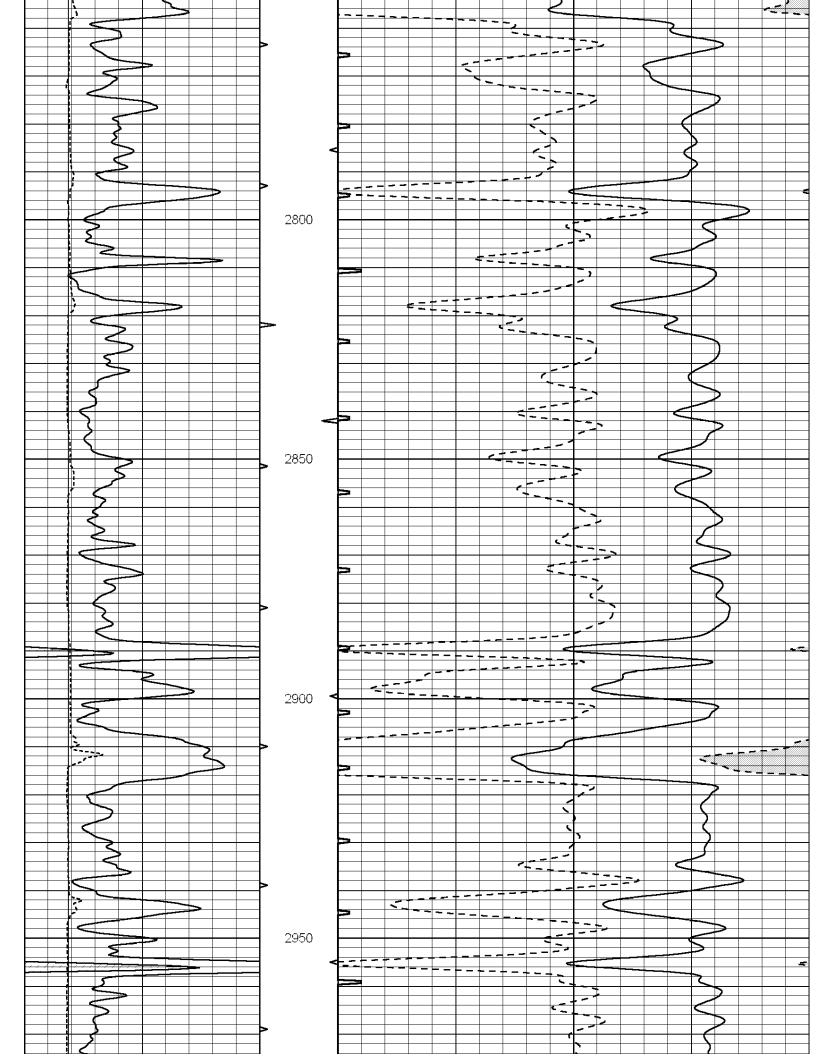


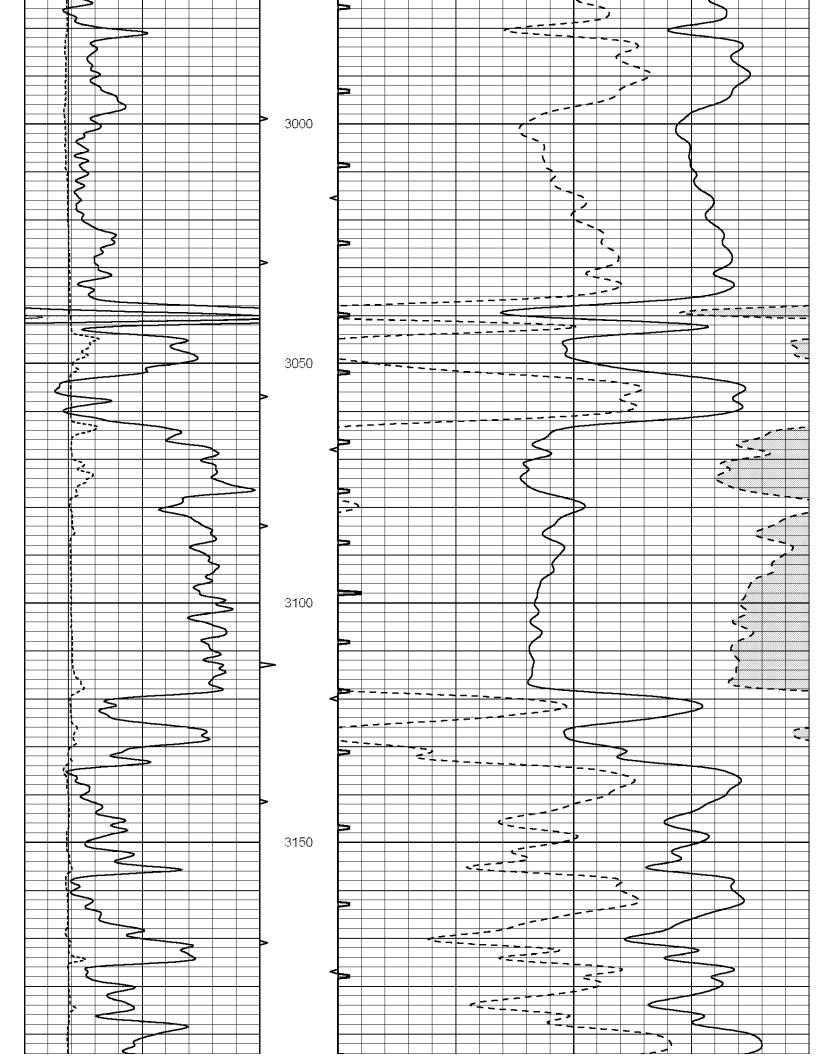


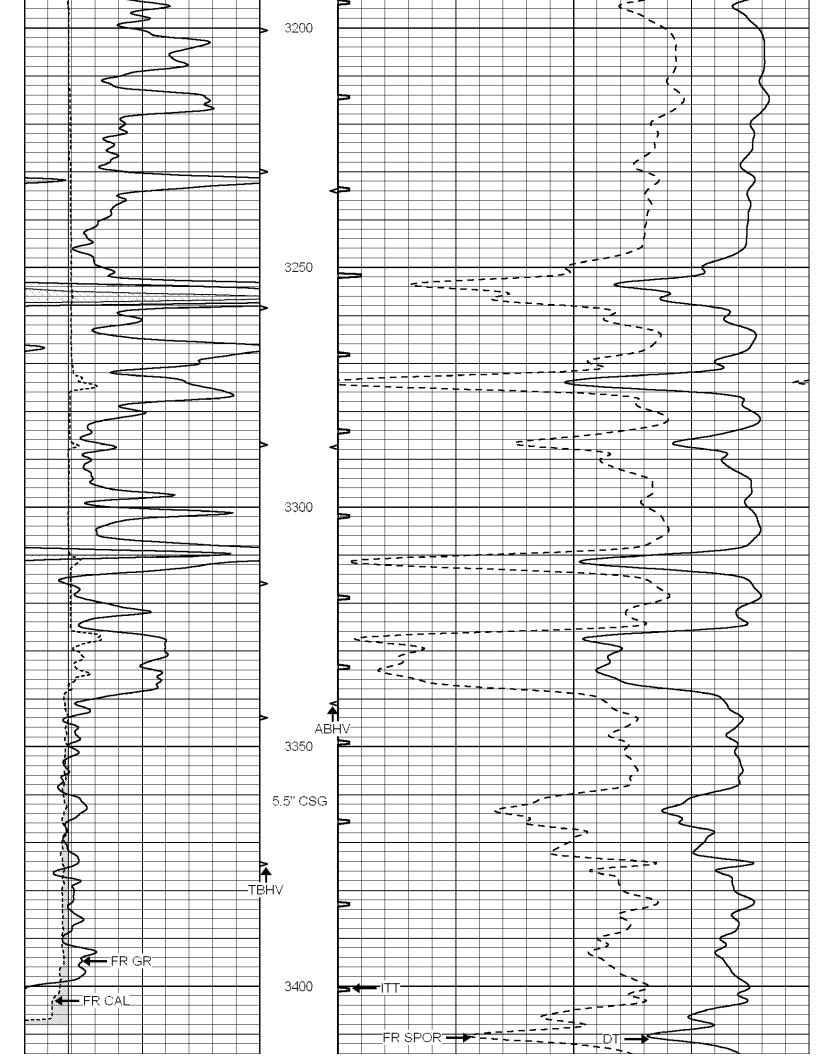












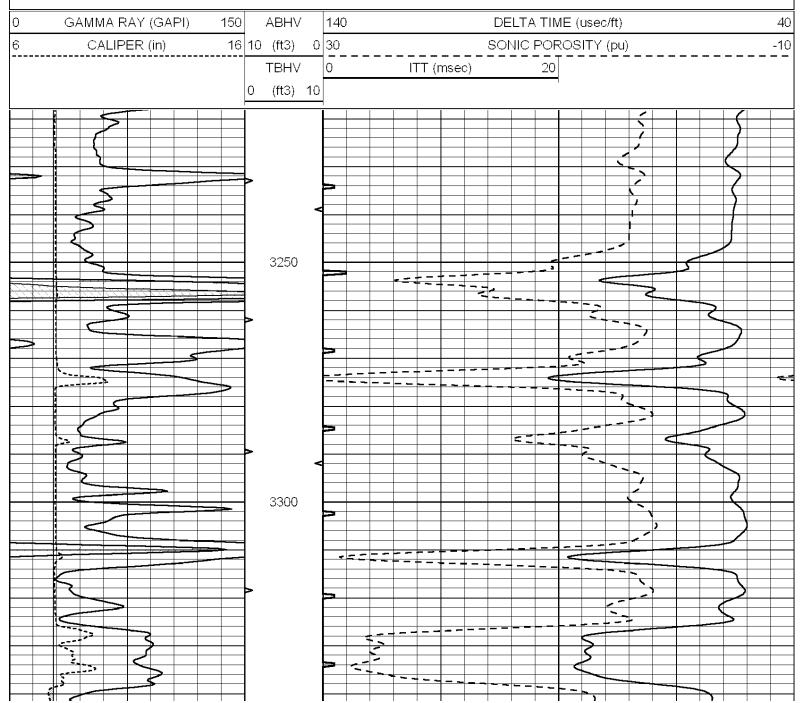
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																							 	-	 		
										LTD 3421																	_
_	=																									_	_
0		GA	MM	ΑR	ΑY	(GA	PI)	•	150	ABHV	140						DEI	_TA	TIM	1E (1	usec	/ft)					40
6	CALIPER (in) 16 1						10 (ft3) 0	30	30 SONIC POROSITY (pu)								-10										
										TBHV	0			TT (i	nsec	:)			20				 		 		
										0 (ft3) 10																	

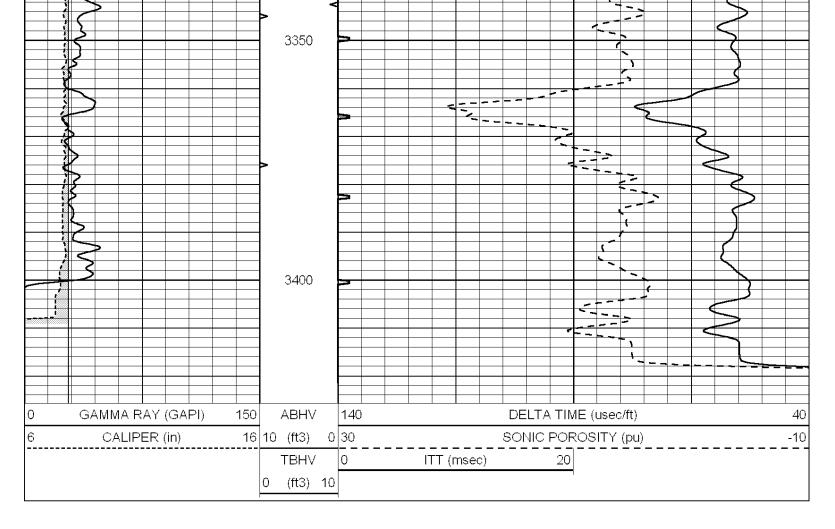


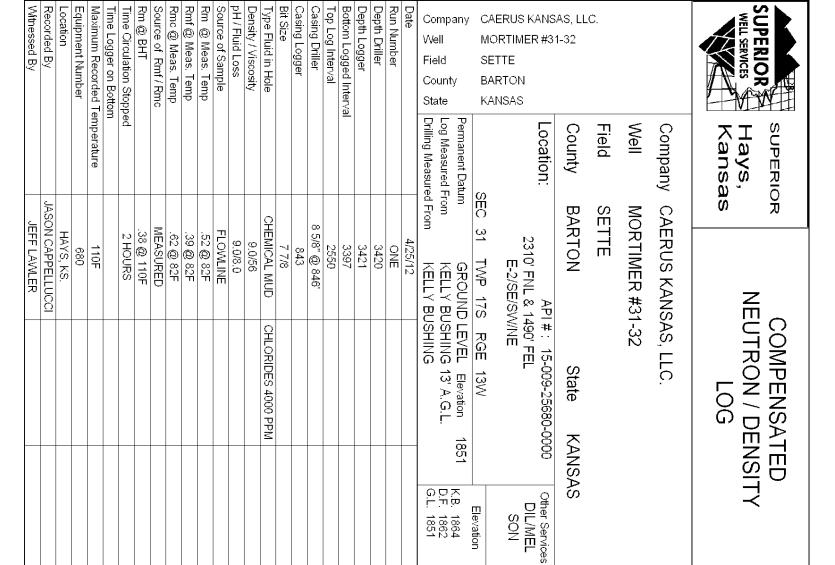
REPEAT SECTION

Database File: 008849ddn.db Dataset Pathname: pass6.2 Presentation Format:

_slt Wed Apr 25 23:07:11 2012 by Calc Open-Cased 090629 Dataset Creation:







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Comments

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DIRECTIONS
RUSSELL, KS. - S. TO INTERSECTION OF HWY 281 & HWY 4
3 E. TO CURVE - 1/2 S. ON CURVE - W. INTO



<<< Fold Here >>>

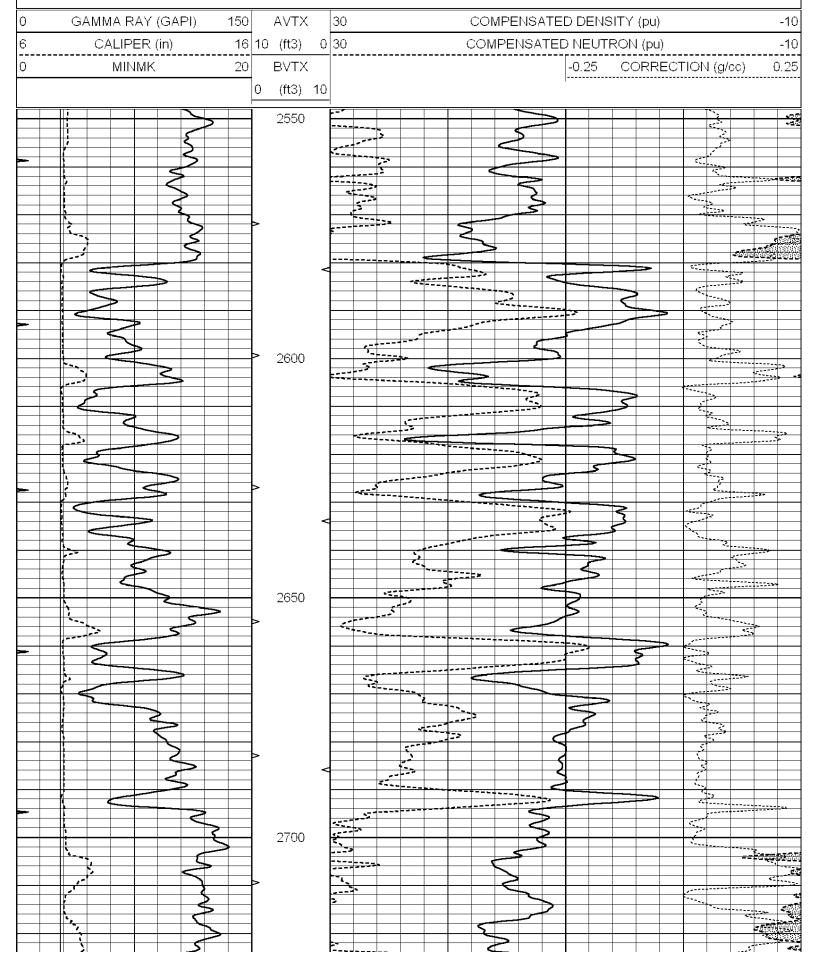
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Dataset Pathname:
Presentation Format:

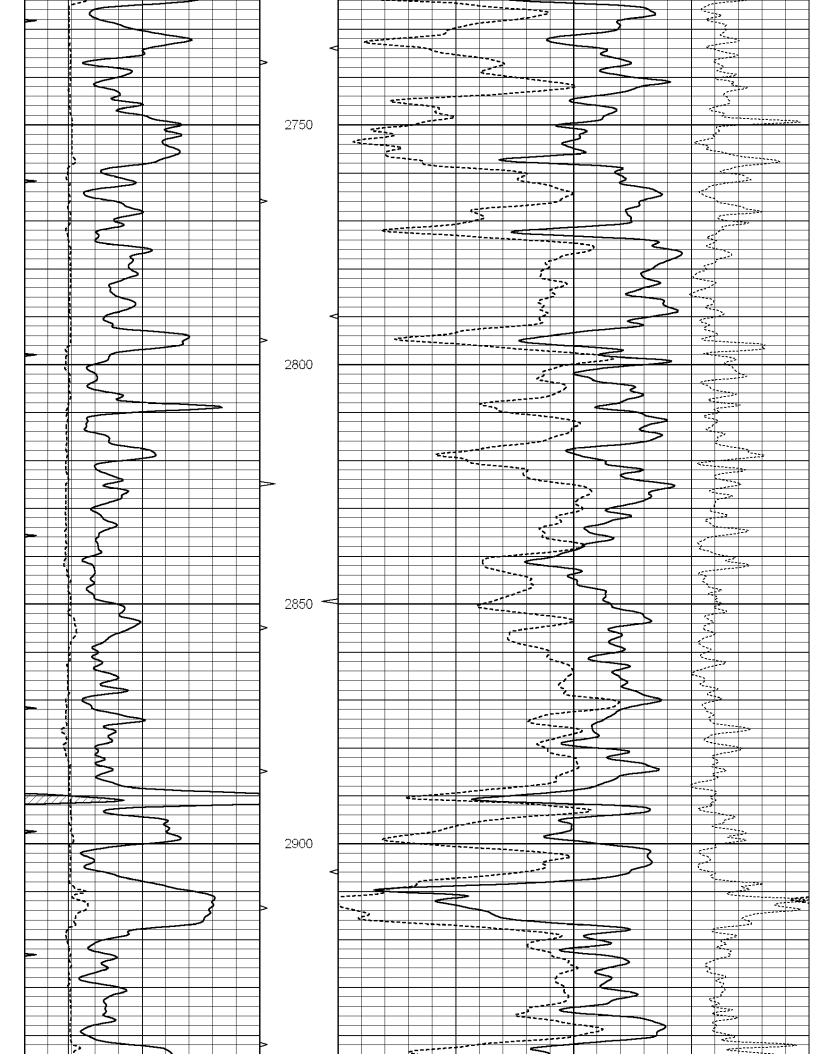
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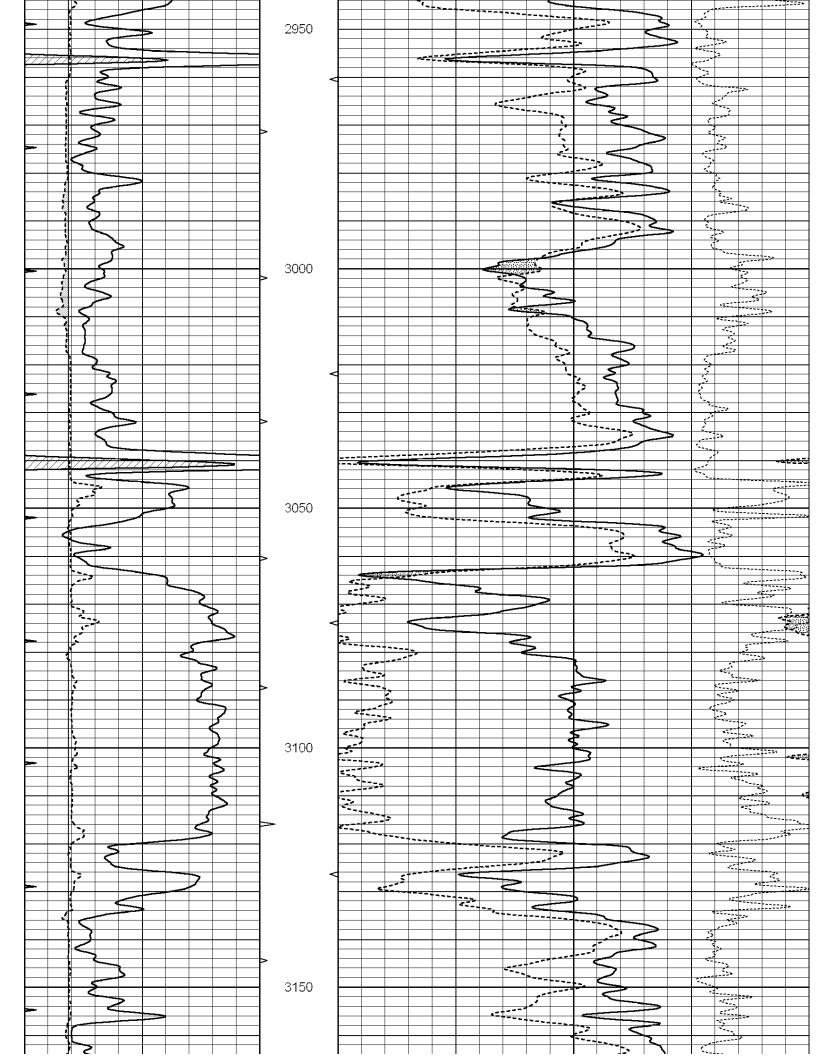
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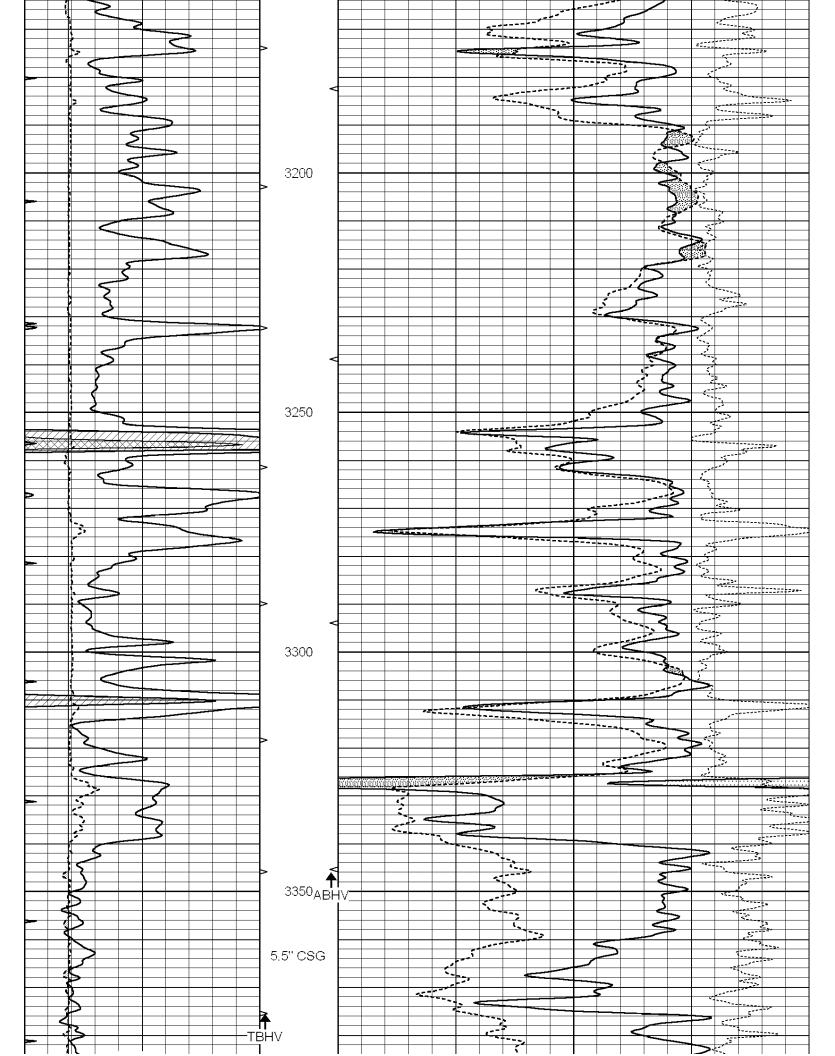
pass4.1

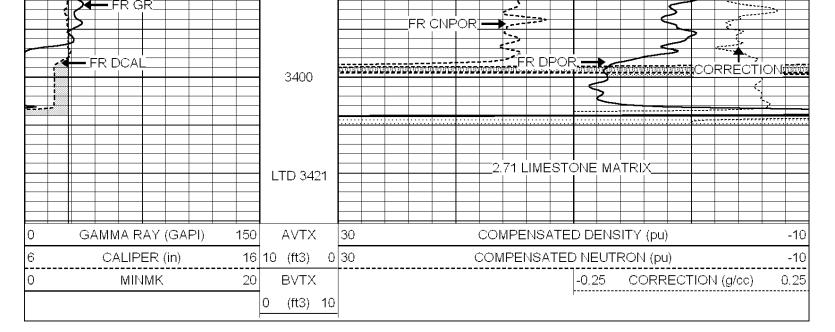
_den_neu Wed Apr 25 21:23:30 2012 by Calc Open-Cased 090629









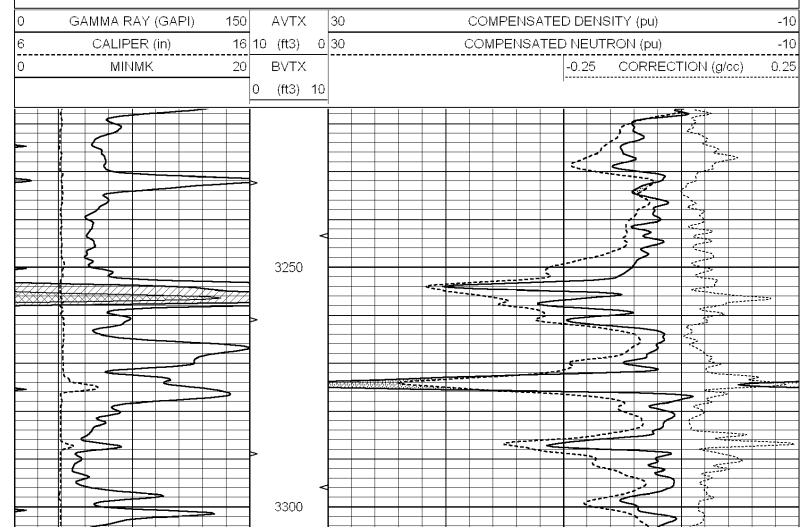


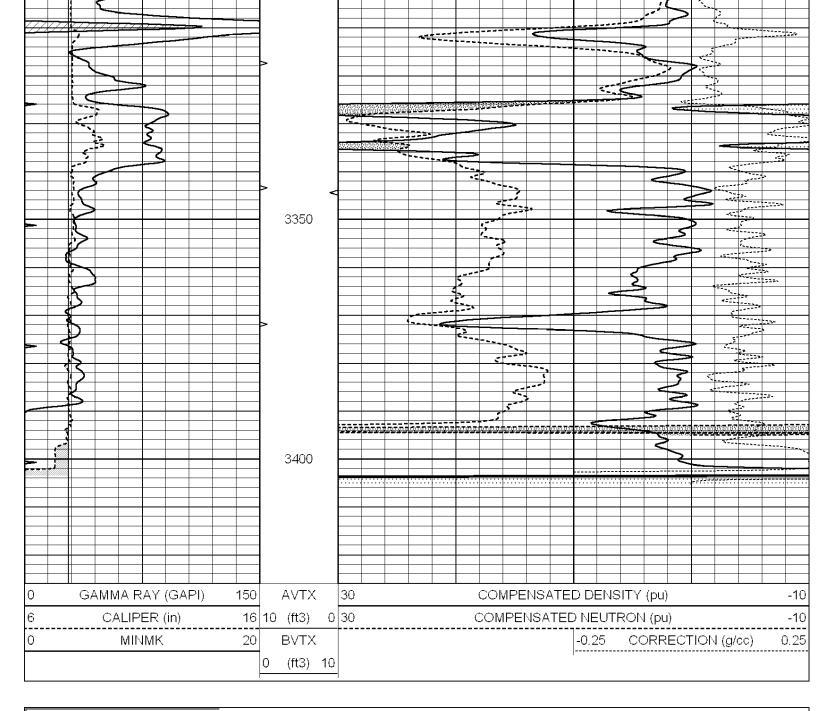


REPEAT SECTION

Database File: 008849ddn.db Dataset Pathname: pass3.2 Presentation Format: _den_neu

Dataset Creation: Wed Apr 25 21:17:10 2012 by Calc Open-Cased 090629





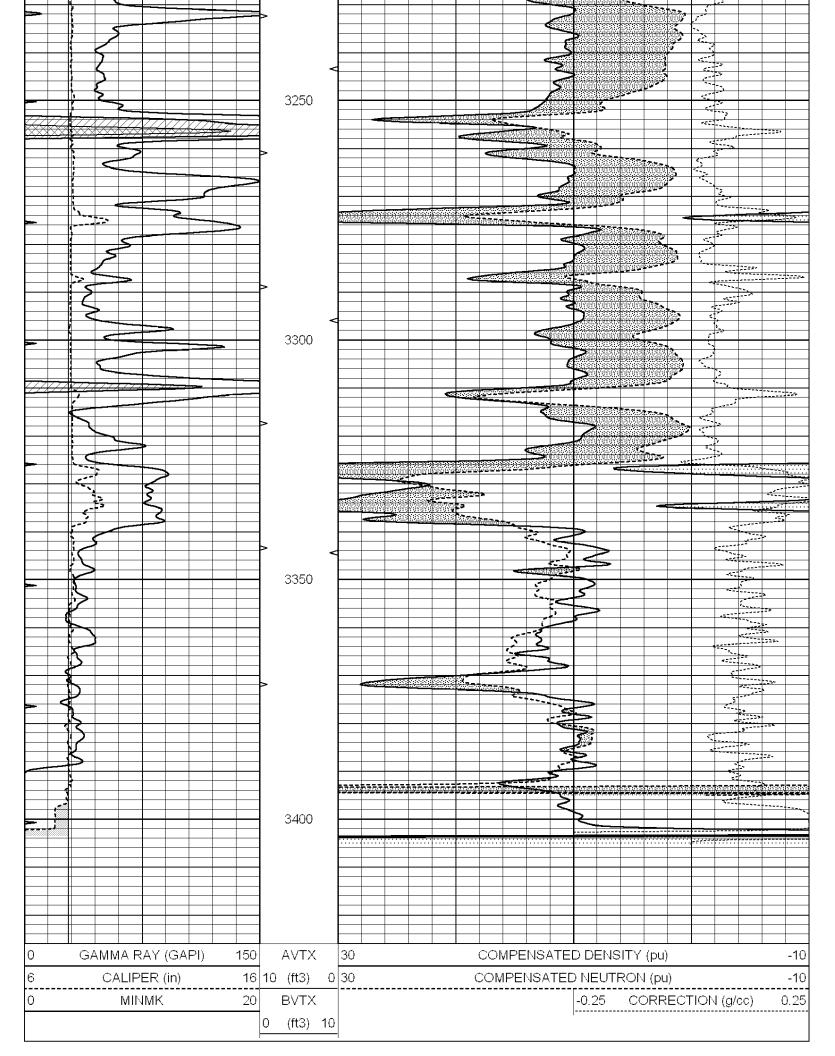


DOLOMITE MATRIX

Database File: 008849ddn.db
Dataset Pathname: pass3.4
Presentation Format: _den_neu

Dataset Creation: Wed Apr 25 21:20:02 2012 by Calc Open-Cased 090629

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 1	0	ļ 	
<u>,</u>						



\sim 1	ibration		
2011	inration.	\sim	$\neg \neg r r$
van	เผเฉนบา	170	$\omega \omega \Gamma \iota$

Database File: 00 Dataset Pathname: pa

008849ddn.db

pass3.2

Dataset Creation: Wed Apr 25 21:17:10 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:

PROBE8-DILG

Surface Cal Performed: Downhole Cal Performed: Fri Aug 01 06:33:19 2008 Mon Jul 28 11:08:27 2008 Mon Jul 28 11:08:27 2008

After Survey Verification Performed:

Surface Calibra	111011	Readings			References		Resu	llts
Loop:	Air	Loop		Air	Loop		m	b
Deep Medium	0.015 0.029	0.648 0.796	V V	0.000	400.000 464.000	mmho/m mmho/m	632.616 605.049	-9.730 -17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep Medium	0.017 0.016	0.657 0.757	V V	0.000 0.000	400.000 464.000	mmho/m mmho/m	625.153 625.992	-10.619 -9.739
Downhole Calib	oration	Readings			References		Resu	ilte
	Zero	Cal		Zero	Cal		m'	b'
Deep Medium LL3	0.000 0.000	0.000 0.000 7.500 0.000 -7.200	mmho/m mmho/m V V	2.011 7.590	405.777 503.393 1500.000 20.000 3800.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	1.000 1.000	0.000 0.000
After Survey Ve	erification	Readings			Targets		Resu	ılts
	Zero	Cal		Zero	Cal		m'	b'
Deep Medium LL3	0.000 0.000	0.000 0.000 1.000 0.000 1.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	0.000 0.000	0.000 0.000 1.000 0.000 1.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	0.000 0.000	0.000 0.000
			Compensated	Density Calibr	ation Report			
		Model: e / Verifier: · Calibration F	erformed:	1.	EAR3-GEAF 43 / 143 hu Jan 26 19			

	Density		Far Detector	Near Detector	
Magnesium	 1.710 g/cc	C	971.18	557.33	cps
Aluminum	2.580 g/cc	C	212.31	367.26	cps
	Spine Angle = 74.66	6	Density/Spine	Ratio = 0.552	
	Size		Reading		
Small Ring	8.00 in		4.29	V	

Compensated Neutron Calibration Report

6.24

14.00

in

Large Ring

	Serial N Tool Mo		6I G			
CALIBRATION						
Detector	Reading	gs	Target		Normalization	
Short Space Long Space	1.00 1.00	cps cps	1.00 1.00	cps cps	1.0000 1.0000	
	Ga	mma Ray (Calibration R	eport		
Serial Number: Tool Model: Performed:	(#8 DPEN Mon Jun 13	16:56:43 20	11		
Calibrator Value:	1	50.0	GA	PI		
Background Reading: Calibrator Reading:).0 75.0	cps cps			
Sensitivity:	C).8371	GA	PI/cps		

				JEFF LAWLER				ed By	Witnessed By
<<<				JASON CAPPELLUCCI	JASO			d By	Recorded By
< Fo				HAYS, KS.					Location
old				680			nber	nt Nur	Equipment Number
Her				110F	ire	Maximum Recorded Temperature	orded T	n Reco	1aximur
e >						n	Time Logger on Bottom	jger or	ime Lo
>>				2 HOURS		ed	Time Circulation Stopped	culatio	ïme Cir
				.38 @ 110F				ᆿ	Rm @ BHT
				MEASURED			/ Rmc	of Rmf	Source of Rmf / Rmc
				.62 @ 82F			Temp	vleas.	Rmc @ Meas. Temp
				.39 @ 82F			emp	1eas. T	Rmf @ Meas. Temp
				.52 @ 82F			emp	1eas. T	Rm @ Meas. Temp
				FLOWLINE			ple	of Samı	Source of Sample
				9.0/8.0				d Loss	pH / Fluid Loss
				9.0/56			sity	Viscos	Density / Viscosity
		Mdc	CHLORIDES 4000 PPM	CHEMICAL MUD	0		ole	id in H	Type Fluid in Hole
				7 7/8					Bit Size
				843				.ogger	Casing Logger
				8 5/8" @ 846')riller	Casing Driller
				2550			<u>a</u>	Interva	Top Log Interval
				3403			Bottom Logged Interval	.ogged	ottom L
				3421				gger	Depth Logger
				3420				iler	Depth Driller
				TWO				1ber	Run Number
				4/25/12					Date
	G.L. 1851		SHING	n KELLY BUSHING	Drilling Measured From	Drilling N	Co Sta	Fie	Co We
	D.F. 1862	•	SHING 13' A.G.L	KELLY BUSHING	Log Measured From	Log Mea	unt ate		
	K B 1864	1851		GROUND LEVEL	Permanent Datum	Perman	y		any
	Elevation		RGE 13W	31 TWP 17S	SEC				
	DIL/SON		//NE #90, FEC	2310' FNL & 1490' FEL E-2/SE/SW/NE			RTON NSAS	TTE	ERUS K DRTIMEI
	Other Services	0-0000	#: 15-009-25680-0000	API#:	tion:	Location:			
	3AS	KANSAS	State	BARTON		County			
				SETTE		Field			.C.
			-32	MORTIMER #31-32		Well			
			AS, LLC.	CAERUS KANSAS, LLC	Company C/	Com			
		3 ′ O	MICRO LOG		Hays, Kansas	Hays, Kansa	A W	RVICES	SUPERIOR WELL SERVICES
					0 0 0 0	<u> </u>			

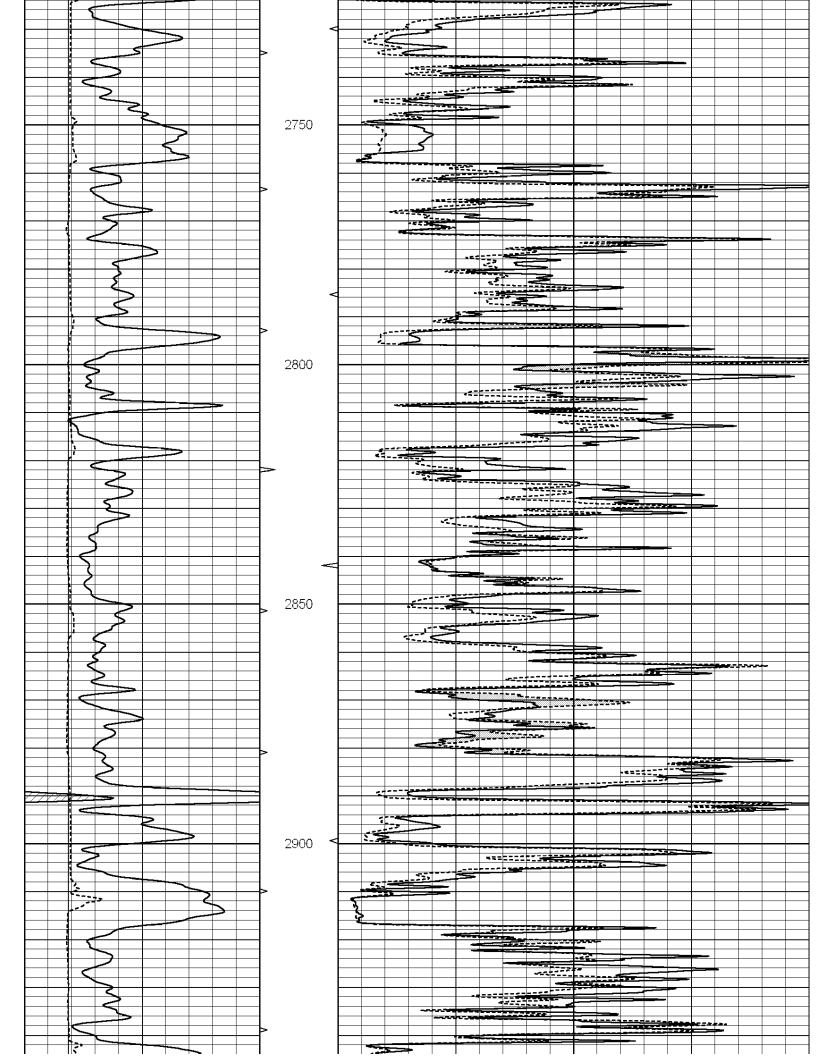
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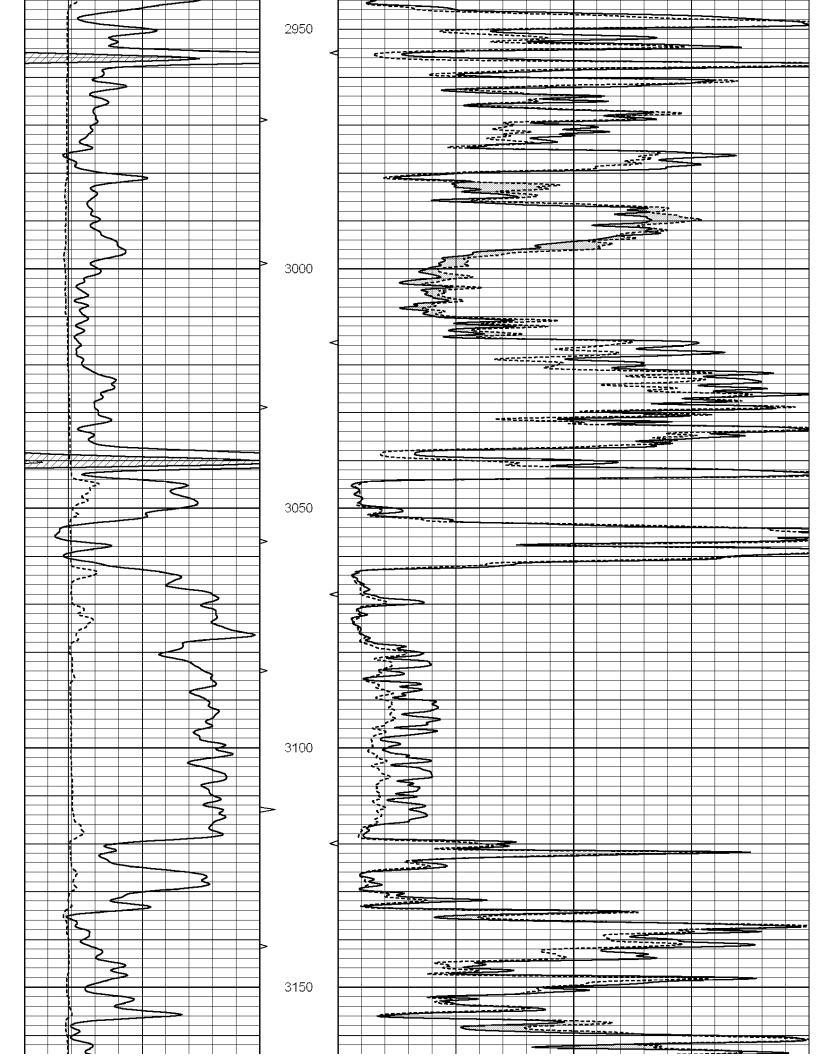
Comments

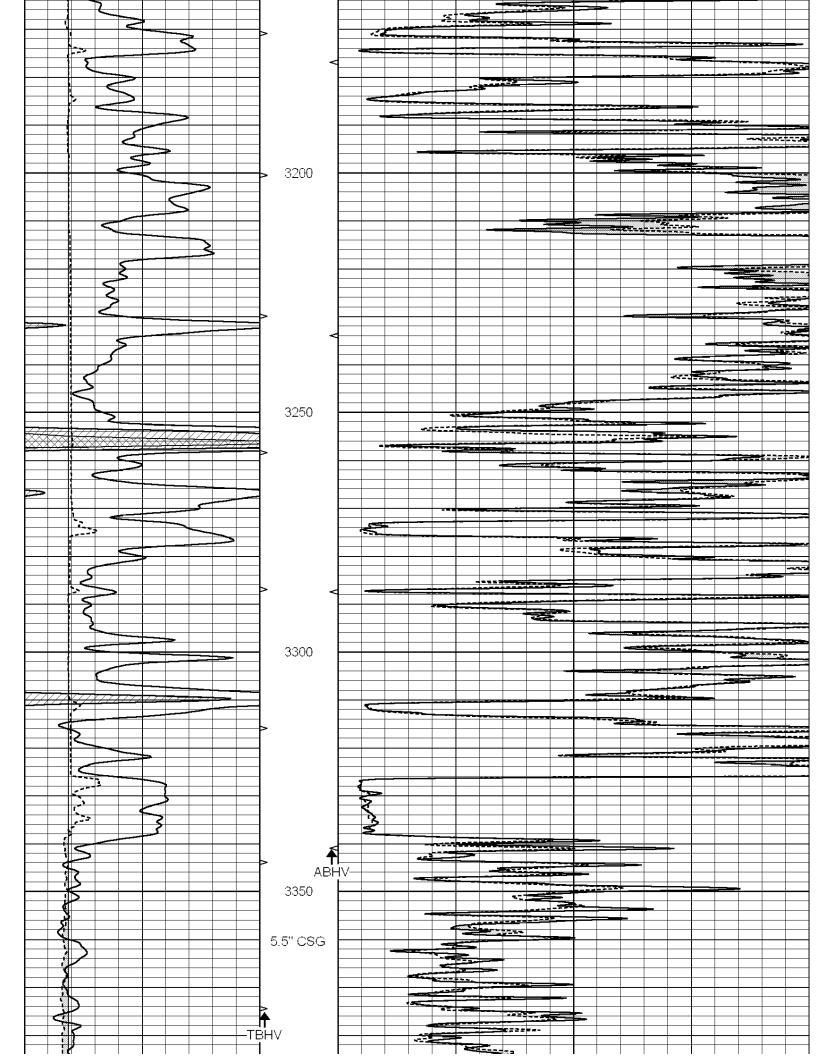
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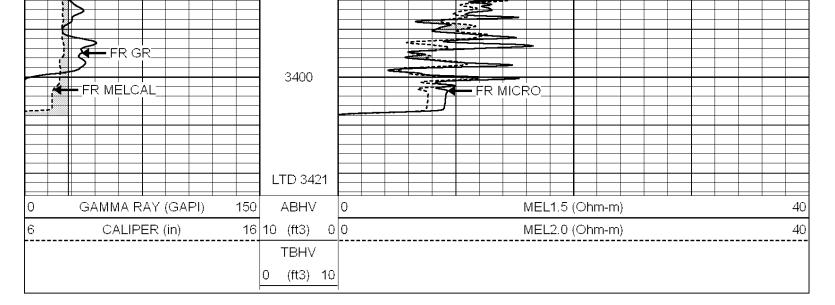


008849ddn.db Database File: Dataset Pathname: pass7.1 _micro Wed Apr 25 23:20:02 2012 by Calc Open-Cased 090629 Presentation Format: Dataset Creation: Charted by: Depth in Feet scaled 1:240 GAMMA RAY (GAPI) 150 **ABHV** 0 MEL1.5 (Ohm-m) 40 0 0 6 CALIPER (in) 16 10 (ft3) MEL2.0 (Ohm-m) 40 TBHV (ft3) 10 2550 2600 2650 2700







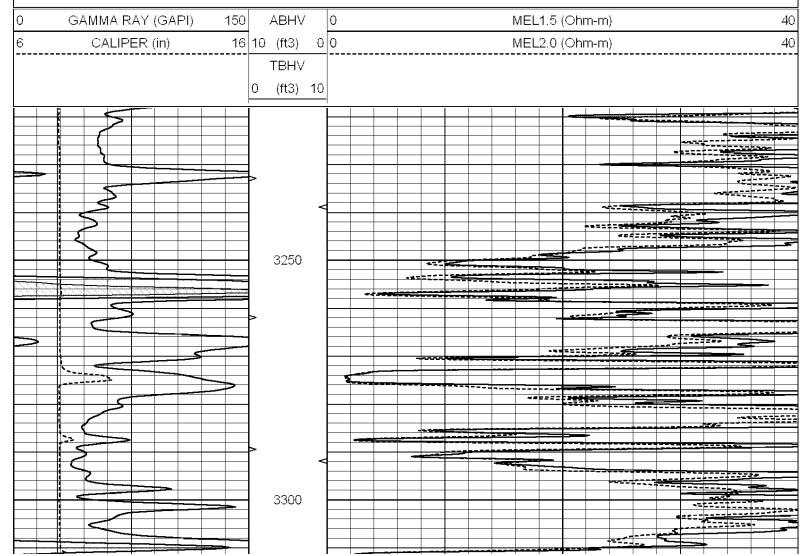


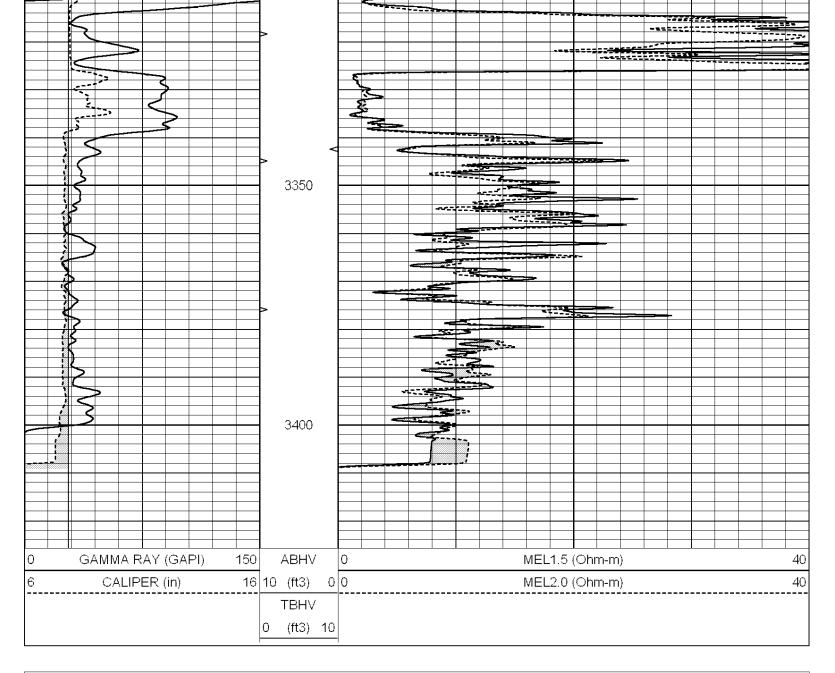


REPEAT SECTION

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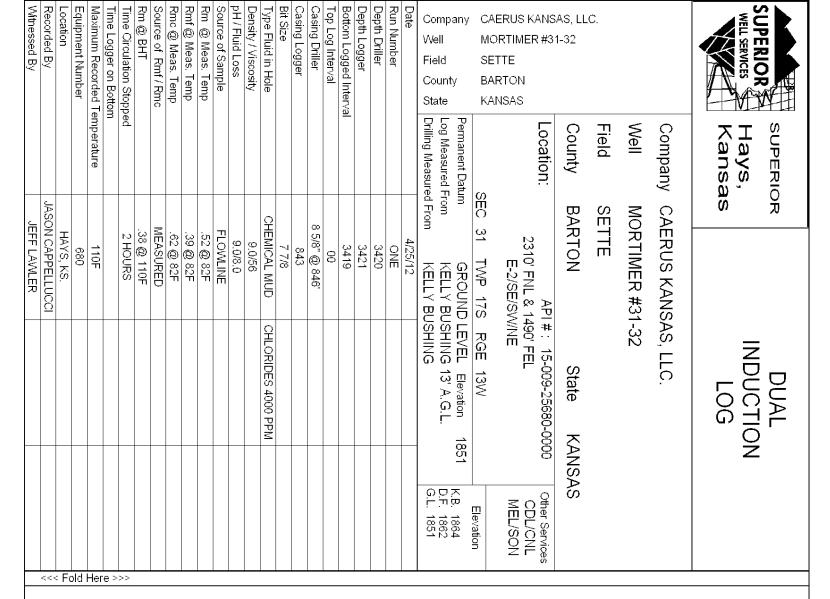
Dataset Creation: Wed Apr 25 23:07:11 2012 by Calc Open-Cased 090629





	Calibration F	Report	
008849ddn.db			
)12 by Calc Open-Case	≥d 090629	
- 110d Apr 20 20.07.11 20	TE by Gaio Gpoil Gao.		
	MICRO Calibrat	ion Report	
mber:	MICRO6		
	PROBE		
d: 	Sat Mar 24 05:2	5:46	
alibration:	Gain=6.253	Offset=-1.368	
	Low Cal	High Cal	
es	5.800	13.000	
	1.1/8	2.330	
ration:	Gain=30.075	Offset=-0.200	
	Low Cal	High Cal	
es	0.000	20.000	
	0.004	1.196	
tion:	Gain=33.041	Offset=-0.300	
	pass6.2	008849ddn.db pass6.2 Wed Apr 25 23:07:11 2012 by Calc Open-Case MICRO Calibrat mber: MICRO6 el: PROBE di: Sat Mar 24 05:29 alibration: Gain=6.253 Low Cal 5.800 1.178 ration: Gain=30.075 Low Cal 0.000 0.004	Dass 6.2 Wed Apr 25 23:07:11 2012 by Calc Open-Cased 090629

References Readings	Low Cal 0.000 0.006	High Cal 20.000 0.913
	Gamma Ray Calibra	tion Report
Serial Number: Tool Model: Performed:	#8 OPEN Mon Jun 13 16:56:	43 2011
Calibrator Value:	150.0	GAPI
Background Reading: Calibrator Reading:	0.0 175.0	cps cps
Sensitivity:	0.8371	GAPI/cps



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.

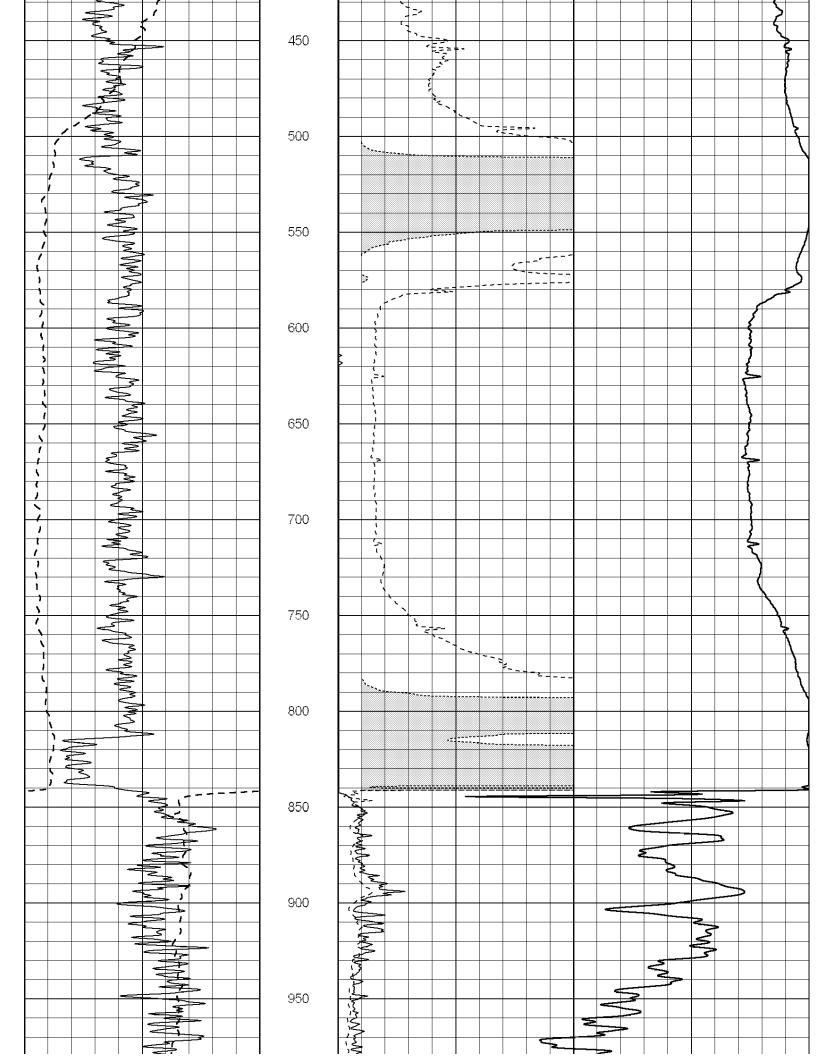
Comments

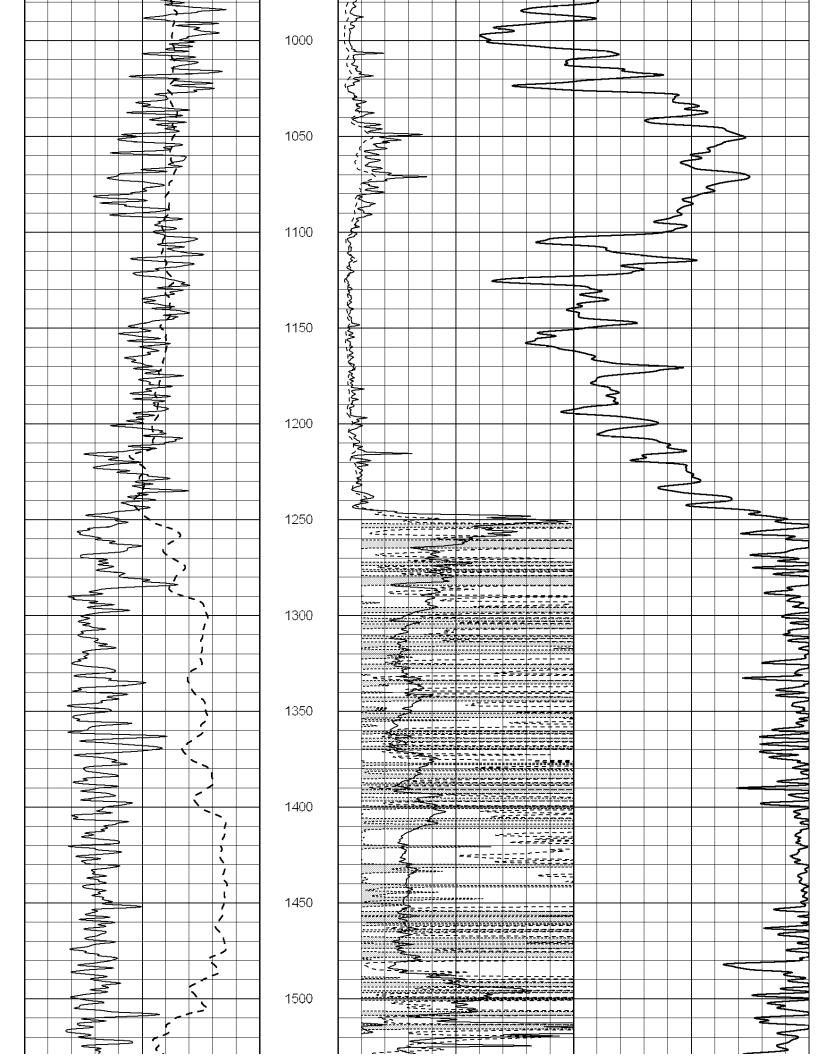
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
RUSSELL, KS. - S. TO INTERSECTION OF HWY 281 & HWY 4
3 E. TO CURVE - 1/2 S. ON CURVE - W. INTO

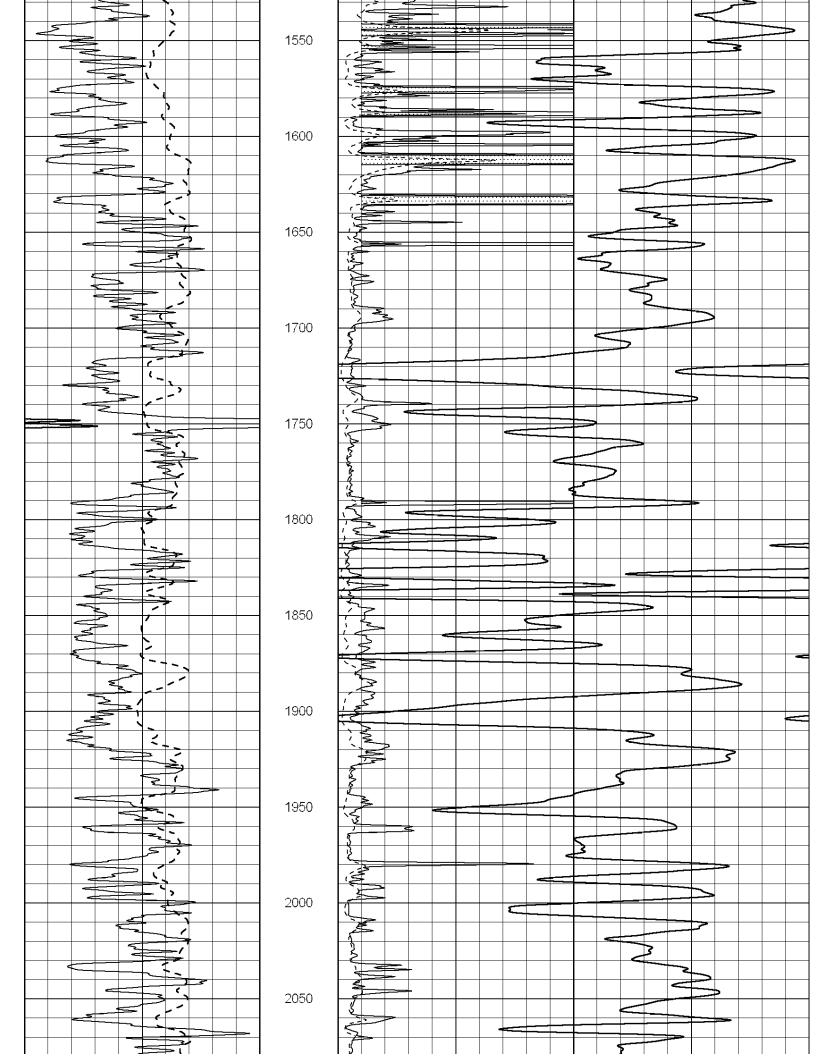


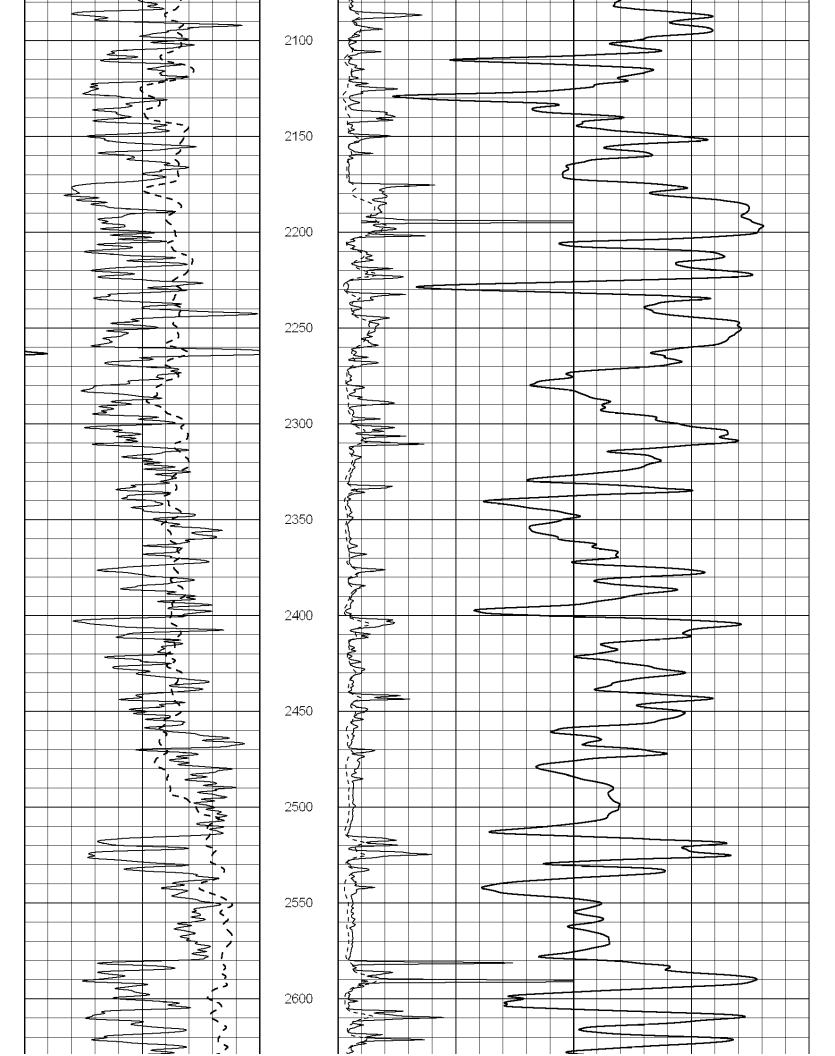
MAIN SECTION

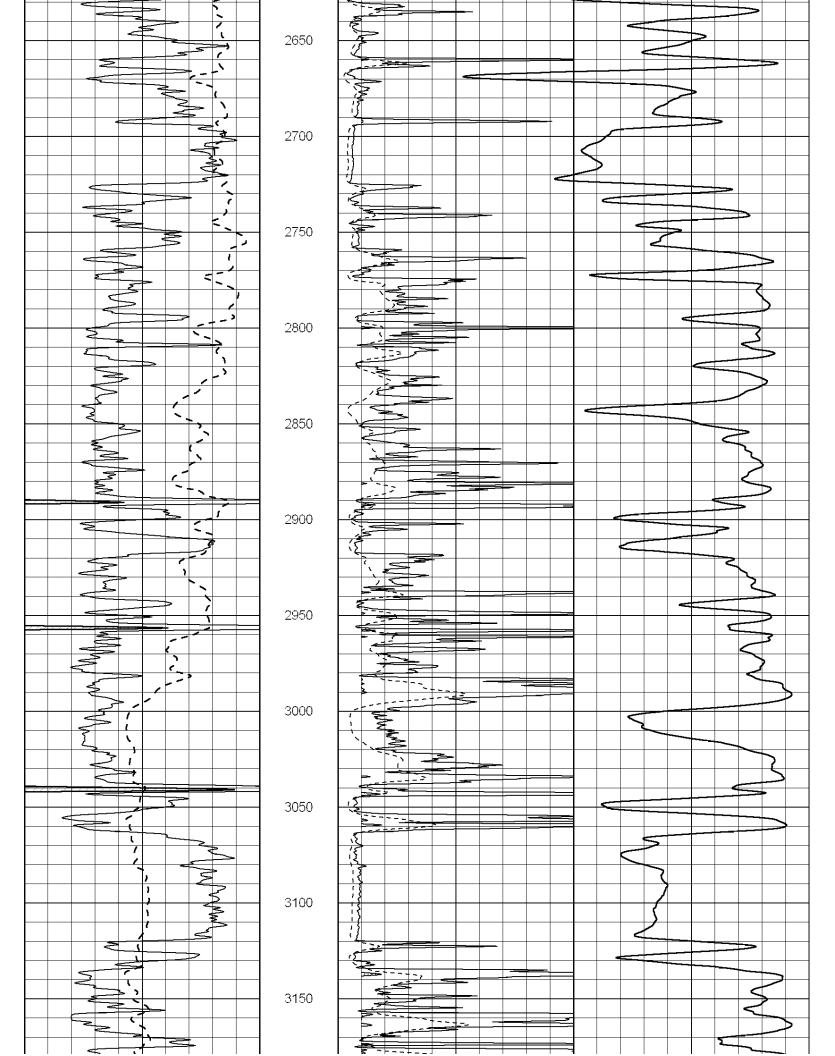
008849ddn.db Database File: Dataset Pathname: pass4.2 _dil2 Presentation Format: Wed Apr 25 21:55:16 2012 by Calc Open-Cased 090629 Dataset Creation: Charted by: Depth in Feet scaled 1:600 RLL3 (Ohm-m) Gamma Ray (GAPI) 150 50 -100 SP (mV) 100 0 Deep Induction (Ohm-m) 50 1000 CILD (mmho/m) 50 RILD X10 (Ohm-m) 500 50 500 RLL3 X10 (Ohm-m) 50 100 150 200 250) 300 350 ١ 400

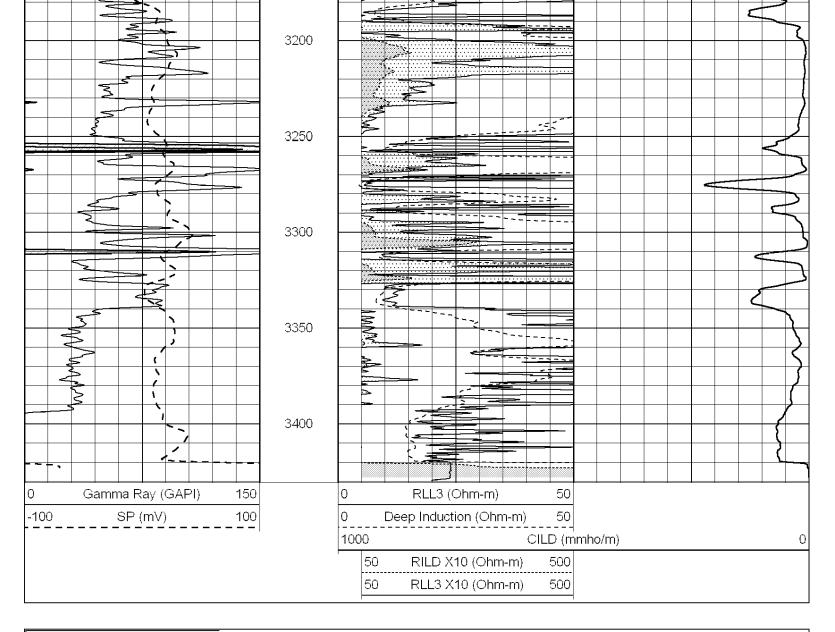














ANHYDRITE

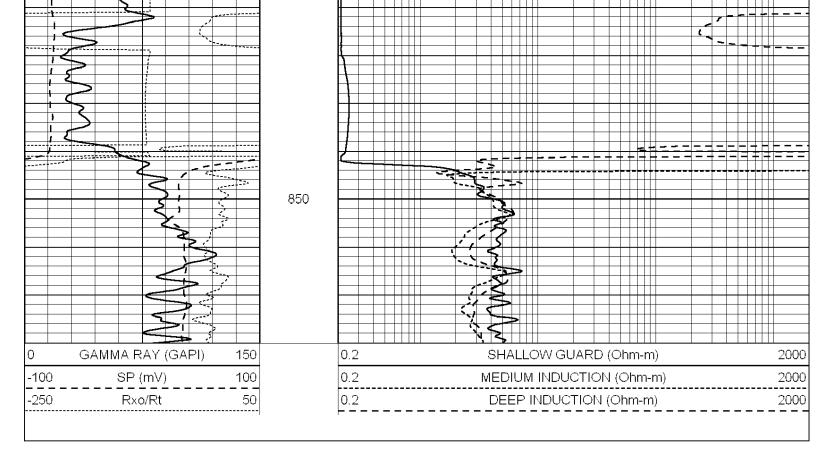
Database File: 008849ddn.db Dataset Pathname: pass4.3

Presentation Format: _dil

Dataset Creation: Wed Apr 25 21:33:07 2012 by Calc Open-Cased 090629

Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150		0.2 SHALLOW GUARD (Ohm-m)					2000										
-100	SP (mV)	100		0.2 MEDIUM INDUCTION (Ohm-m)					2000										
-250	Rxo/Rt	50		0.2 DEEP INDUCTION (Ohm-m)					2000										
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MAIN SECTION

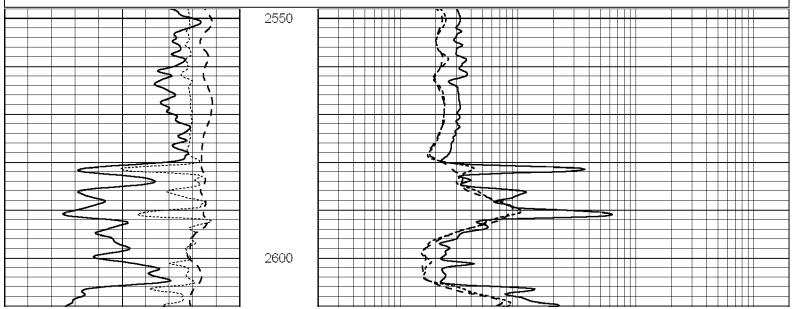
Database File: 008849ddn.db Dataset Pathname: pass4.1

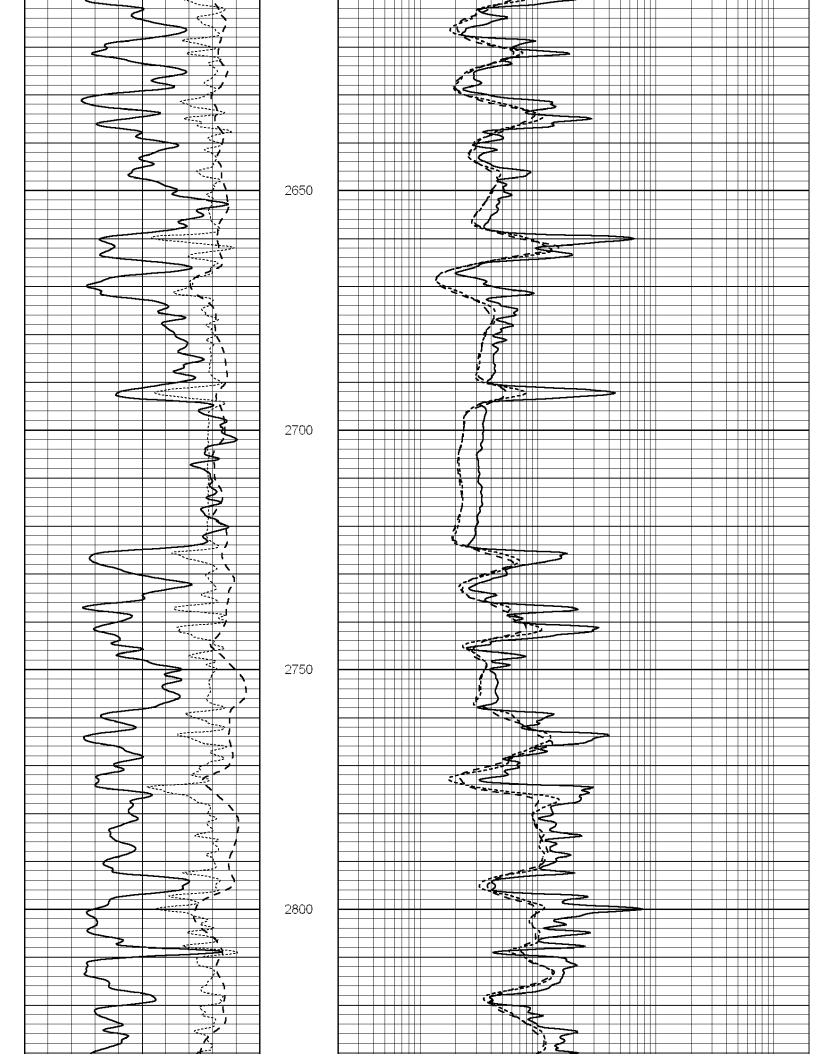
Presentation Format: __dil

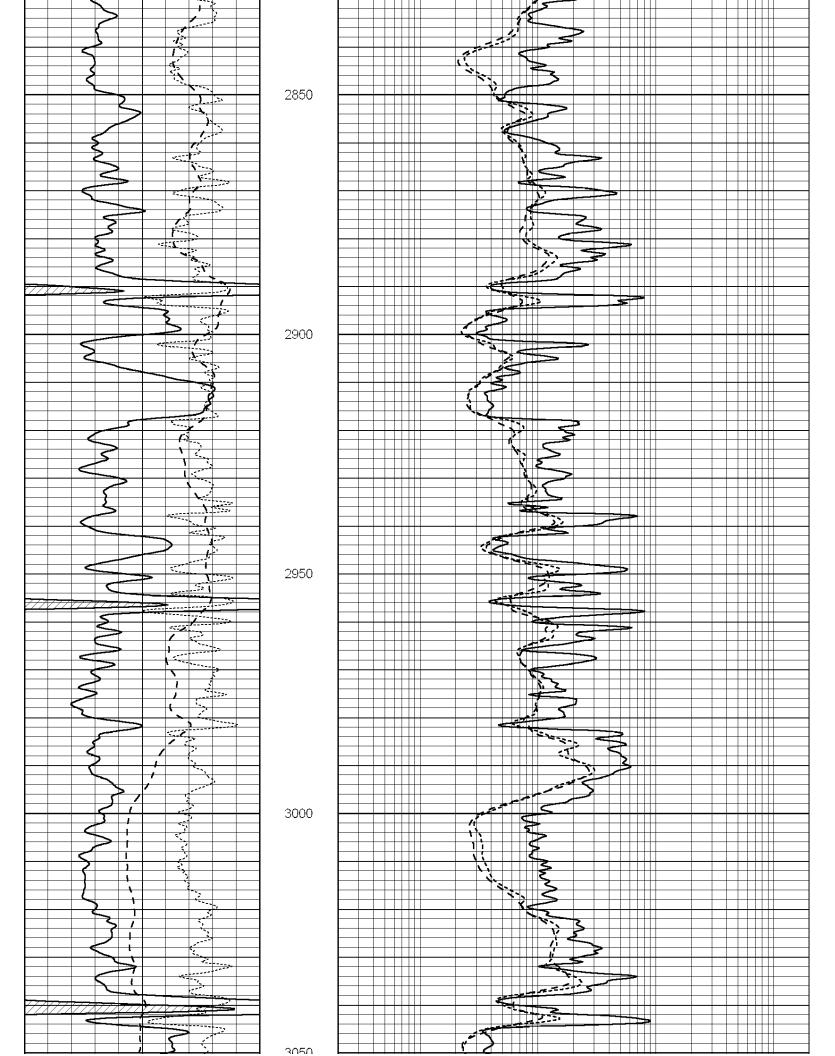
Dataset Creation: Wed Apr 25 21:23:30 2012 by Calc Open-Cased 090629

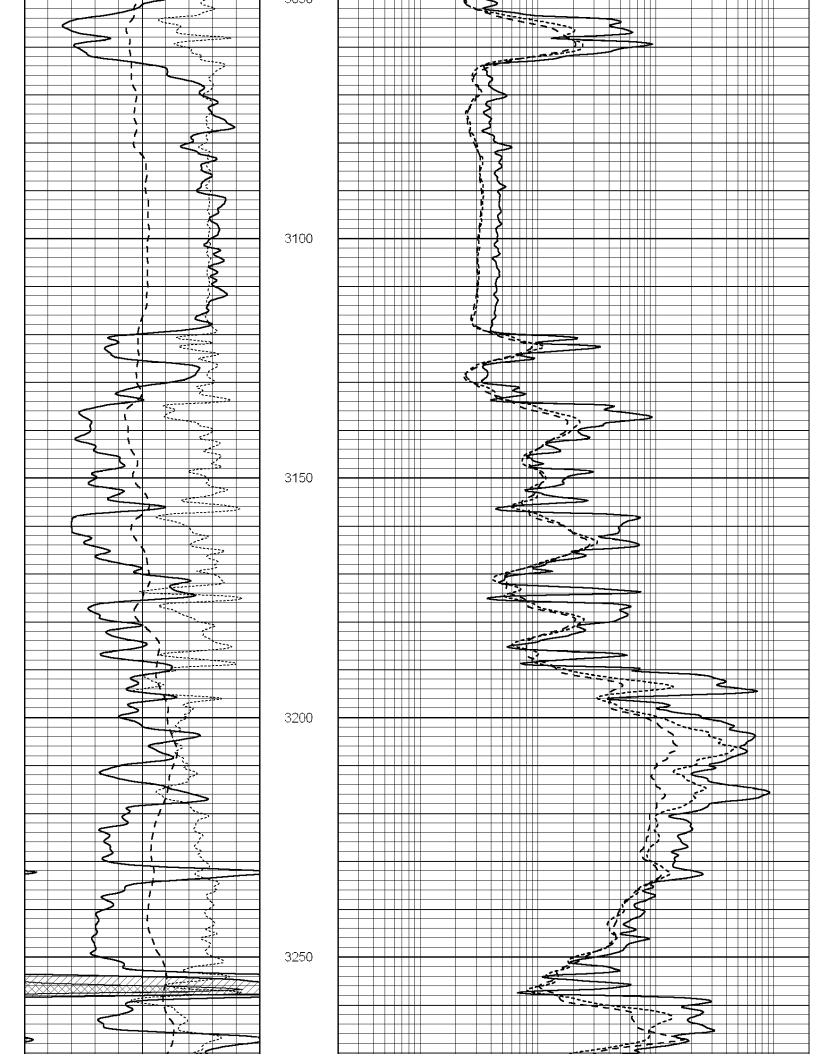
Charted by: Depth in Feet scaled 1:240

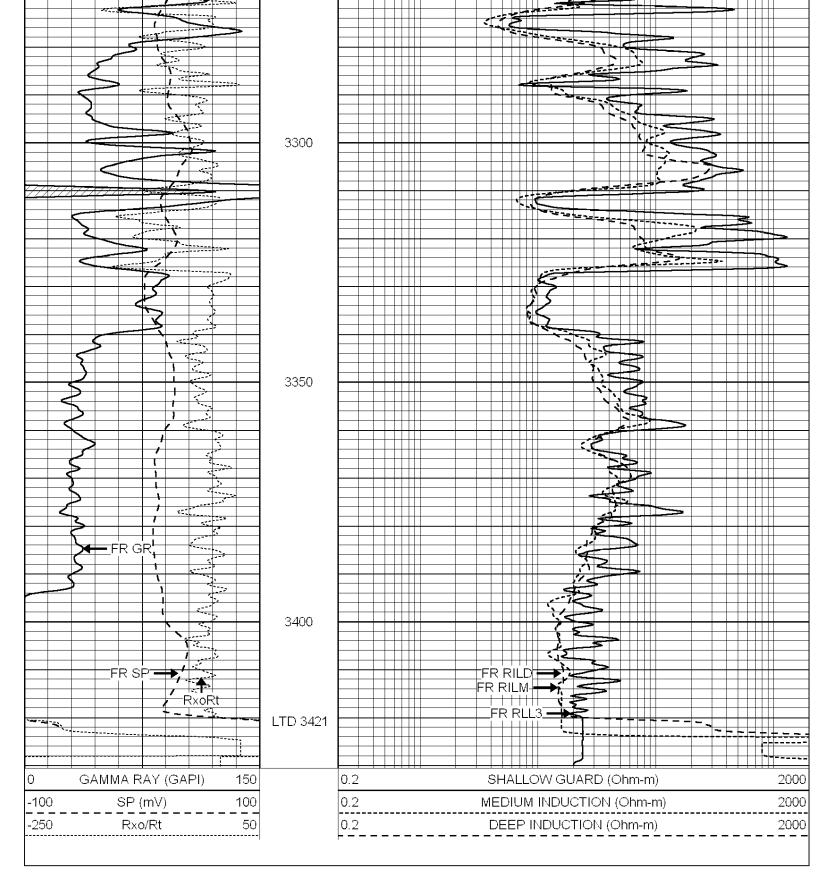
0	GAMMA RAY (GAPI)	150	0).2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0).2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0).2	DEEP INDUCTION (Ohm-m)	2000
			1-			









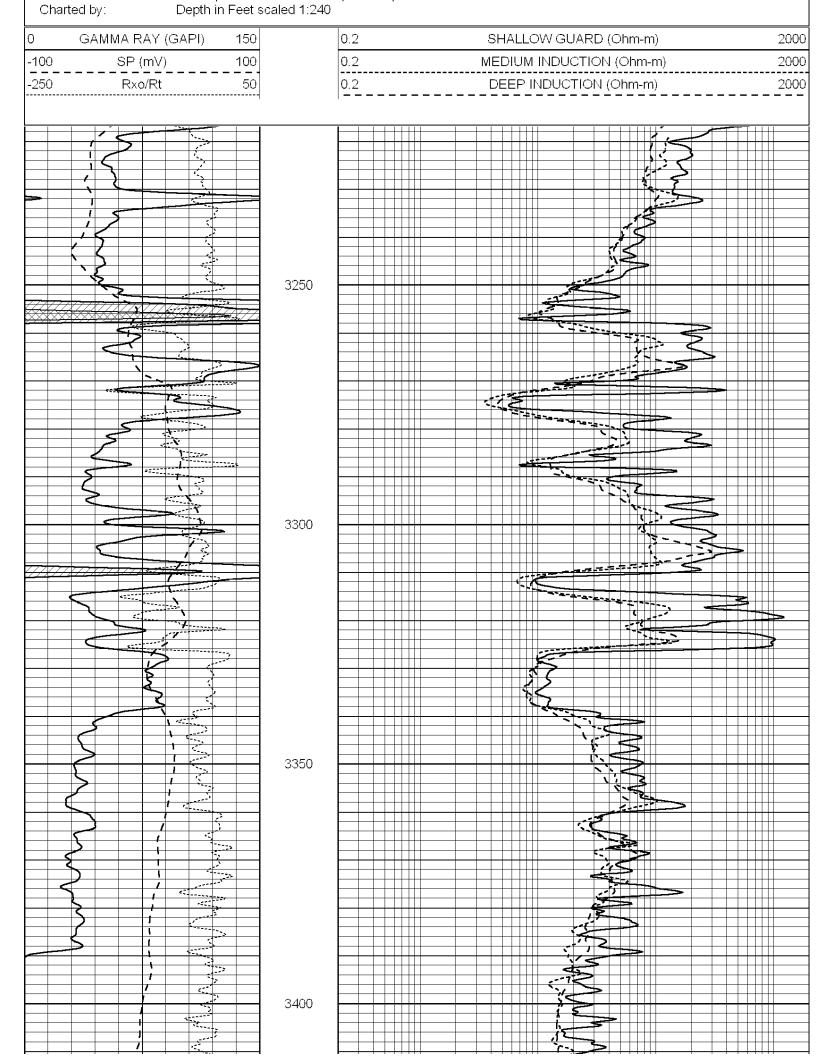


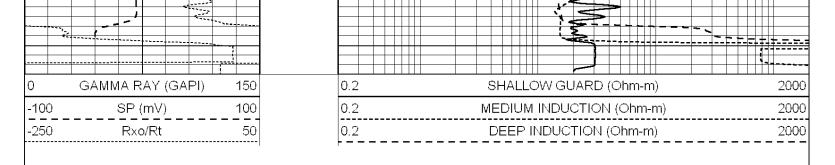


REPEAT SECTION

Database File: 008849ddn.db Dataset Pathname: pass3.2 Presentation Format: _dil

Dataset Creation: Wed Apr 25 21:17:10 2012 by Calc Open-Cased 090629





\cap a	libration	Panart
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Database File: 008849ddn.db Dataset Pathname: pass3.2

Dataset Creation: Wed Apr 25 21:17:10 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG

Surface Cal Performed: Fri Aug 01 06:33:19 2008
Downhole Cal Performed: Mon Jul 28 11:08:27 2008
After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibra	ntion							
		Readings		I	References		Resu	llts
Loop:	Air	Loop		Air	Loop		m	b
Deep Medium	0.015 0.029	0.648 0.796	V V	0.000	400.000 464.000	mmho/m mmho/m	632.616 605.049	-9.730 -17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep Medium	0.017 0.016	0.657 0.757	V V	0.000	400.000 464.000	mmho/m mmho/m	625.153 625.992	-10.619 -9.739
Downhole Calib	oration							
		Readings			References		Resu	llts
	Zero	Cal		Zero	Cal		m'	b'
Deep Medium LL3	0.000 0.000	0.000 0.000 7.500 0.000 -7.200	mmho/m mmho/m V V V	2.011 7.590	405.777 503.393 1500.000 20.000 3800.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	1.000 1.000	0.000 0.000
After Survey V	erification	Deadin			T		D	.14
		Readings			Targets		Resu	IIIS
	Zero	Cal ———		Zero	Cal		m'	p,
Deep Medium LL3	0.000 0.000	0.000 0.000 1.000 0.000	mmho/m mmho/m Ohm-m Ohm-m	0.000 0.000	0.000 0.000 1.000 0.000	mmho/m mmho/m Ohm-m Ohm-m	0.000 0.000	0.000 0.000

Compensated Density Calibration Report

1.000

mmho-m

Serial-Model: GEAR3-GEARHART

Source / Verifier: 143 / 143

mmho-m

1.000

Master Calibration Performed: Thu Jan 26 19:46:16 2012

Master Calibration

Density Far Detector Near Detector

Magnesium Aluminum	1.710 2.580	g/cc g/cc			971.18 212.31		557.33 367.26	cps cps
	Spine Angle :	= 74.66		Der	sity/Spine	Ratio = 0	.552	
	Size			R	eading			
Small Ring Large Ring	8.00 14.00	in in			4.29 6.24	V V		
		Compen	sated Neu	tron Calibrati	on Report			
		Serial No Tool Mo		61 G				
CALIBRATION								
Detector		Reading	S	Target		Noi	malization	
Short Space Long Space		1.00 1.00	cps cps	1.00 1.00	cps cps		000 000	
		Gar	mma Ray (Calibration R	eport			
Serial Number: Tool Model: Performed:			PEN	16:56:43 20	11			
Calibrator Value:		1	50.0	GAI	기			
Background Reading Calibrator Reading:	g :	0. 1	0 75.0	cps cps				
Sensitivity:		0.	8371	GAI	PI/ops			



Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378

Mortimer 31-32

Hays KS 67601

Job Ticket: 47366 DST#: 1

ATTN: Jeff Lawler Test Start: 2012.04.23 @ 01:50:00

GENERAL INFORMATION:

LKC "DE&F" Formation:

Deviated: Test Type: Conventional Bottom Hole (Initial) No Whipstock: 1864.00 ft (KB)

Time Tool Opened: 04:51:30 Tester: Jim Svaty Time Test Ended: 08:58:00 Unit No: 42

Interval: 3162.00 ft (KB) To 3198.00 ft (KB) (TVD) Reference Elevations: 1864.00 ft (KB)

Total Depth: 3198.00 ft (KB) (TVD) 1851.00 ft (CF)

7.88 inches Hole Condition: Fair 13.00 ft Hole Diameter: KB to GR/CF:

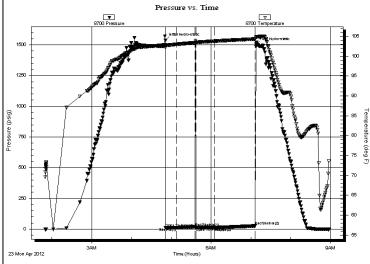
Serial #: 8700 Outside

Press@RunDepth: 3165.00 ft (KB) 13.17 psig @ Capacity: 8000.00 psig

Start Date: 2012.04.23 End Date: 2012.04.23 Last Calib.: 2012.04.23 Start Time: 01:50:05 End Time: 08:57:59 Time On Btm: 2012.04.23 @ 04:51:00 2012.04.23 @ 07:08:00 Time Off Btm:

TEST COMMENT: 15-IFP- No Blow

30-ISIP- No Blow 30-FFP- No Blow 60-FSIP- No Blow



PRESSURE SUMMARY									
Ī	Time	Pressure	Temp	Annotation					
	(Min.)	(psig)	(deg F)						
	0	1535.18	102.88	Initial Hydro-static					
	1	12.87	102.22	Open To Flow (1)					
	17	12.87	103.00	Shut-In(1)					
-	45	18.32	103.40	End Shut-In(1)					
Temperature (deg F)	47	13.69	103.38	Open To Flow (2)					
rature	75	13.17	103.81	Shut-In(2)					
(deq l	136	26.83	104.34	End Shut-In(2)					
و	137	1501.69	104.77	Final Hydro-static					

Recovery

Description	Volume (bbl)
No Fluid	0.00
	·

Gas Rat	es	
Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 47366 Printed: 2012.04.23 @ 09:35:27



FLUID SUMMARY

Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378 Hays KS 67601 Mortimer 31-32 Job Ticket: 47366

Serial #:

DST#:1

ATTN: Jeff Law ler

Test Start: 2012.04.23 @ 01:50:00

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/gal Cushion Length: ft
Viscosity: 49.00 sec/qt Cushion Volume: bbl

Water Loss: 8.76 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No Fluid	0.000

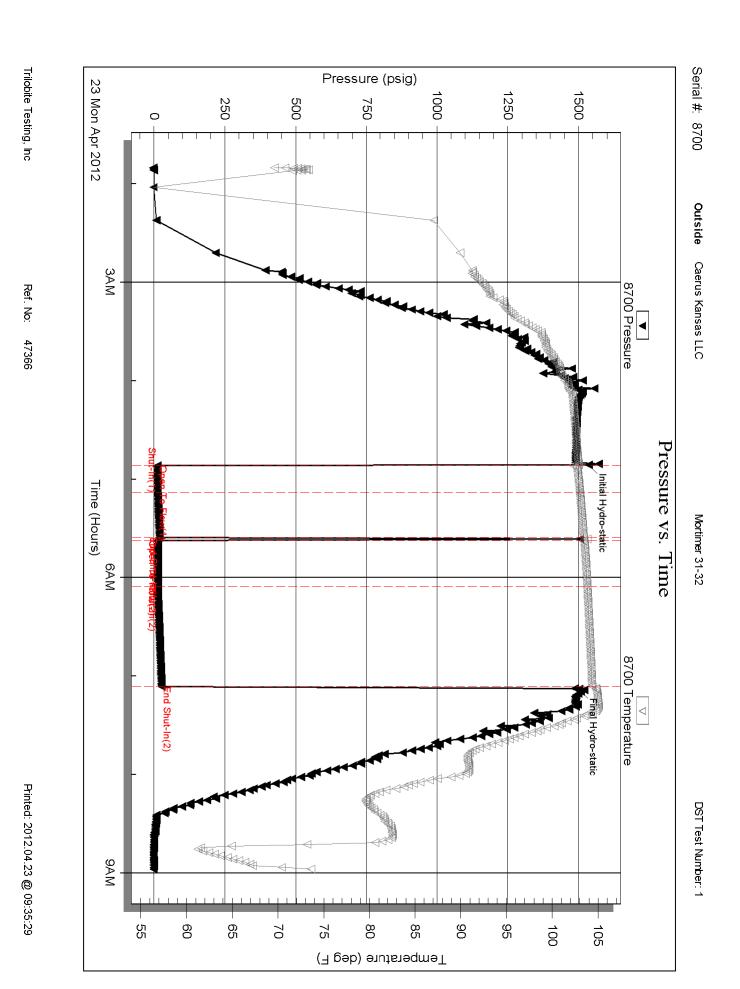
Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47366 Printed: 2012.04.23 @ 09:35:28





Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378

Mortimer 31-32

Tester:

Unit No:

Hays KS 67601

Job Ticket: 47367 DST#: 2

ATTN: Jeff Lawler

Test Start: 2012.04.23 @ 19:00:00

GENERAL INFORMATION:

LKC "H" Formation:

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: 1864.00 ft (KB)

Time Tool Opened: 20:55:30 Time Test Ended: 02:53:30

> Reference Elevations: 1864.00 ft (KB)

Jim Svaty

42

3252.00 ft (KB) To 3280.00 ft (KB) (TVD) Total Depth: 3280.00 ft (KB) (TVD)

1851.00 ft (CF)

7.88 inches Hole Condition: Fair Hole Diameter:

Outside

13.00 ft KB to GR/CF:

Serial #: 8700

Interval:

Press@RunDepth: 3253.00 ft (KB) 13.87 psig @

Capacity: 8000.00 psig

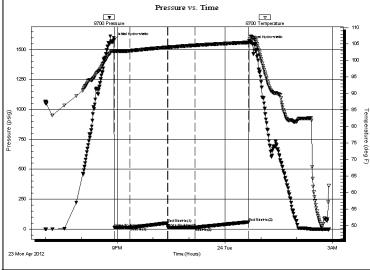
Start Date: 2012.04.23 End Date: 2012.04.24 Last Calib.: 2012.04.24 Start Time: 19:00:05 End Time: 2012.04.23 @ 20:55:00 02:53:29 Time On Btm:

> Time Off Btm: 2012.04.24 @ 00:40:30

> > PRESSURE SUMMARY

TEST COMMENT: 30-IFP- Surface Blow Died in 12 min

60-ISIP- No Blow 45-FFP- No Blow 90-FSIP- No Blow



T KESSOKE SOMMAN									
Time	Pressure	Temp	Annotation						
(Min.)	(psig)	(deg F)							
0	1581.59	102.92	Initial Hydro-static						
1	12.64	102.59	Open To Flow (1)						
27	13.96	102.95	Shut-In(1)						
89	50.81	104.00	End Shut-In(1)						
90	10.64	104.00	Open To Flow (2)						
135	13.87	104.62	Shut-In(2)						
225	59.38	105.48	End Shut-In(2)						
226	1557.31	105.99	Final Hydro-static						
	(Min.) 0 1 27 89 90 135 225	Time (Min.) Pressure (psig) 0 1581.59 1 12.64 27 13.96 89 50.81 90 10.64 135 13.87 225 59.38	Time (Min.) Pressure (psig) (deg F) 0 1581.59 102.92 1 12.64 102.59 27 13.96 102.95 89 50.81 104.00 90 10.64 104.00 135 13.87 104.62 225 59.38 105.48						

Cac Datas

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SLOCM 1%o 99%m	0.07
* Recovery from mult	iple tests	

Ous rui	.00	
Choka (inahaa)	Drocoure (poig)	Coo Roto (Mof/d)

Trilobite Testing, Inc. Ref. No: 47367 Printed: 2012.04.24 @ 07:32:55



FLUID SUMMARY

Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378 Hays KS 67601 Mortimer 31-32

Job Ticket: 47367

Serial #:

DST#: 2

ATTN: Jeff Law ler

Test Start: 2012.04.23 @ 19:00:00

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/gal Cushion Length: ft
Viscosity: 48.00 sec/qt Cushion Volume: bbl

7.95 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2000.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
5.00	SLOCM 1%o 99%m	0.070

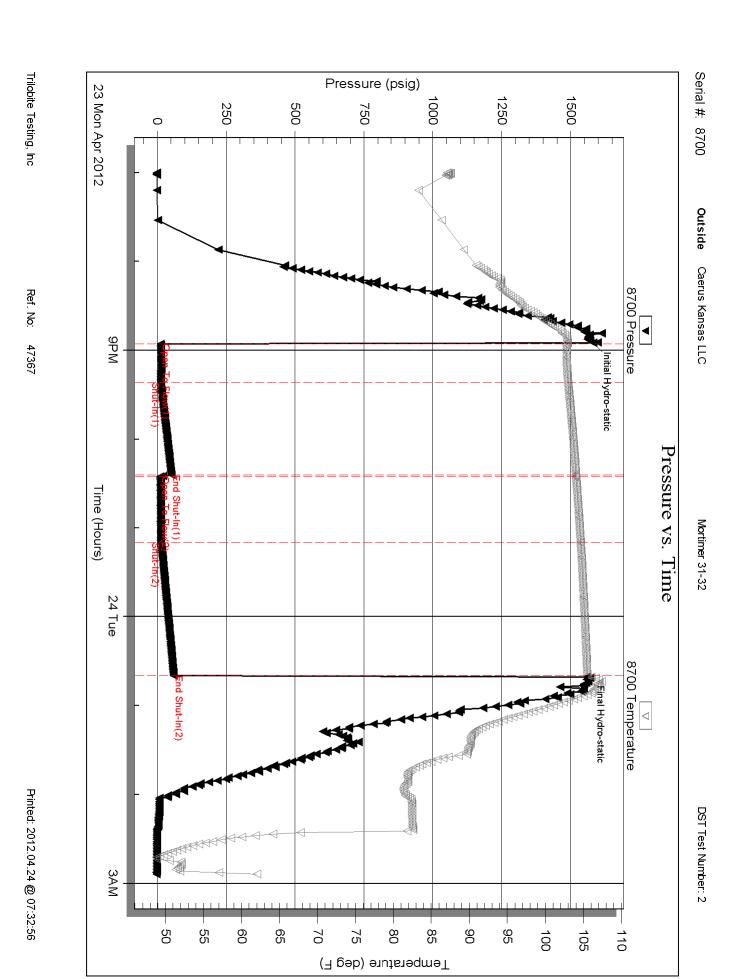
Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47367 Printed: 2012.04.24 @ 07:32:55





Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378

Mortimer 31-32

Tester:

Hays KS 67601

Job Ticket: 47368 DST#: 3

ATTN: Jeff Lawler

Test Start: 2012.04.24 @ 12:30:00

Jim Svaty

GENERAL INFORMATION:

Formation: **Arbuckle**

Interval:

Total Depth:

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) No 1864.00 ft (KB)

Time Tool Opened: 15:02:30 Time Test Ended: 21:28:00

> Reference Elevations: 1864.00 ft (KB)

Unit No: 42 3325.00 ft (KB) To 3355.00 ft (KB) (TVD)

1851.00 ft (CF)

7.88 inches Hole Condition: Fair Hole Diameter: KB to GR/CF: 13.00 ft

Serial #: 8700 Outside

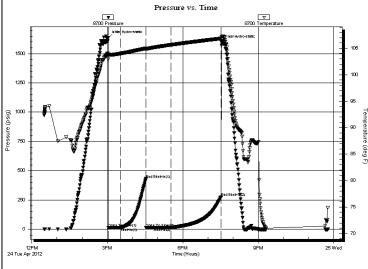
Press@RunDepth: 3326.00 ft (KB) 14.65 psig @ Capacity: 8000.00 psig

Start Date: 2012.04.24 End Date: 2012.04.24 Last Calib.: 2012.04.24 Start Time: 12:30:05 End Time: 2012.04.24 @ 15:02:00 23:45:30 Time On Btm: Time Off Btm: 2012.04.24 @ 19:32:00

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 5min

3355.00 ft (KB) (TVD)

60-ISIP- No Blow 60-FFP- No Blow 120-FSIP- No Blow



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1634.41	104.06	Initial Hydro-static
	1	11.59	102.94	Open To Flow (1)
	29	14.30	103.99	Shut-In(1)
_	90	430.56	104.99	End Shut-In(1)
Temperature	91	14.73	104.83	Open To Flow (2)
rature	150	14.65	105.65	Shut-In(2)
(deg l	270	274.99	106.86	End Shut-In(2)
F)	270	1598.12	107.19	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
2.00	SLOCM 1%o 99%m	0.03
* Recovery from mult	iple tests	

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

Gas Rates

Trilobite Testing, Inc. Ref. No: 47368 Printed: 2012.04.25 @ 07:33:29



FLUID SUMMARY

Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378 Hays KS 67601 Mortimer 31-32

Job Ticket: 47368

DST#:3

ATTN: Jeff Law ler

Test Start: 2012.04.24 @ 12:30:00

Mud and Cushion Information

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

Viscosity: 49.00 sec/qt Cushion Volume: bbl

Water Loss: 9.17 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	SLOCM 1%o 99%m	0.028

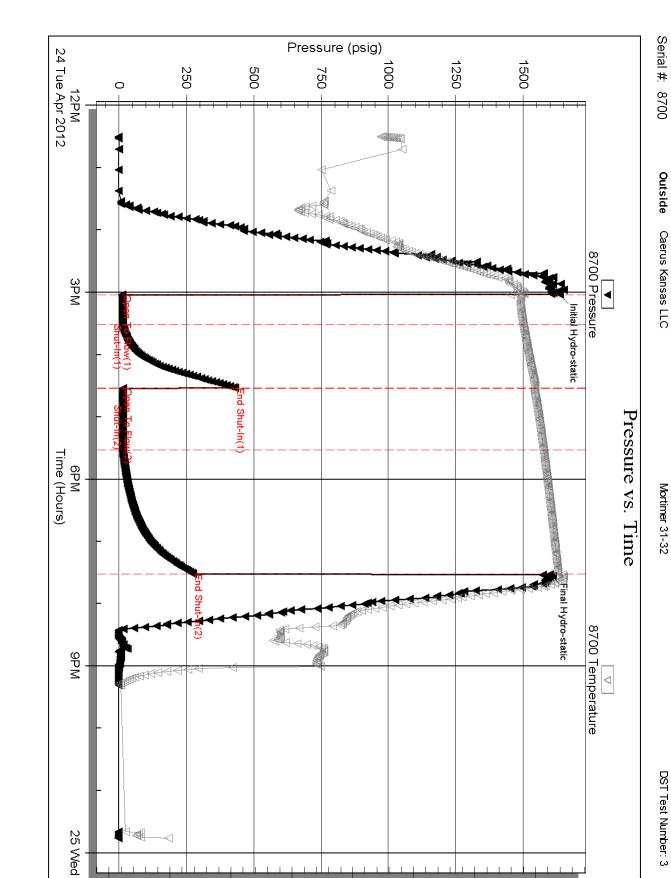
Total Length: 2.00 ft Total Volume: 0.028 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47368 Printed: 2012.04.25 @ 07:33:29



Temperature (deg F)

Trilobite Testing, Inc



Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378

Mortimer 31-32

Hays KS 67601

Job Ticket: 47369 DST#: 4

ATTN: Brian Karlin

Test Start: 2012.04.25 @ 02:55:10

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 04:53:05 Time Test Ended: 12:16:35 Tester: Ray Schwager

Unit No:

Reference Elevations:

1864.00 ft (KB)

3355.00 ft (KB) To 3369.00 ft (KB) (TVD) 3369.00 ft (KB) (TVD)

1851.00 ft (CF) 13.00 ft

Hole Diameter:

KB to GR/CF:

7.85 inches Hole Condition: Fair

Serial #: 6625 Press@RunDepth: Inside

360.88 psig @

3356.00 ft (KB)

Capacity: 2012.04.25 Last Calib.: 8000.00 psig

Start Date: Start Time:

Interval:

Total Depth:

2012.04.25 02:55:10 End Date: End Time:

12:16:35

Time On Btm: 2012.04.25 @ 04:49:35

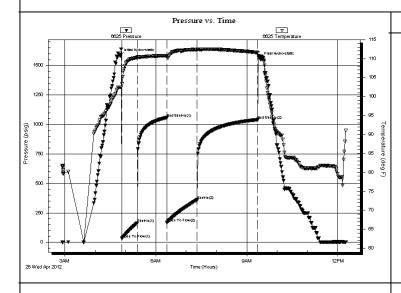
2012.04.25

Time Off Btm: 2012.04.25 @ 09:26:34

TEST COMMENT: 30-IFP-wk to strg in 5min

60-ISIP-surface bl bk 60-FFP-wk to strg in 9min

120-FSIP-no bl



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1580.87	102.41	Initial Hydro-static
4	34.04	103.37	Open To Flow (1)
34	164.69	110.26	Shut-In(1)
92	1058.05	110.73	End Shut-In(1)
93	168.39	110.48	Open To Flow (2)
152	360.88	112.38	Shut-In(2)
272	1040.88	111.56	End Shut-In(2)
277	1554.00	110.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	90'GIP	0.00
920.00	∞	12.91
40.00	MGO 25%G20%M55%O	0.56
* Recovery from mult	tiple tests	

Gas Rates

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

Printed: 2012.04.25 @ 12:41:41 Trilobite Testing, Inc. Ref. No: 47369



Caerus Kansas LLC

31 17s 13w Barton

P. O. Box 1378

Mortimer 31-32

Hays KS 67601

Job Ticket: 47369 DST#: 4

ATTN: Brian Karlin Test Start: 2012.04.25 @ 02:55:10

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 04:53:05 Time Test Ended: 12:16:35

Tester:

Unit No:

Ray Schwager

1864.00 ft (KB)

3355.00 ft (KB) To 3369.00 ft (KB) (TVD) Total Depth: 3369.00 ft (KB) (TVD)

Reference Elevations: 1851.00 ft (CF)

KB to GR/CF: 13.00 ft

Hole Diameter: 7.85 inches Hole Condition: Fair

Serial #: 8700

Interval:

Outside

3356.00 ft (KB) psig @

Capacity:

8000.00 psig

Press@RunDepth: Start Date:

2012.04.25

End Date:

2012.04.25 Last Calib.: Time On Btm: 12:15:04

2012.04.25

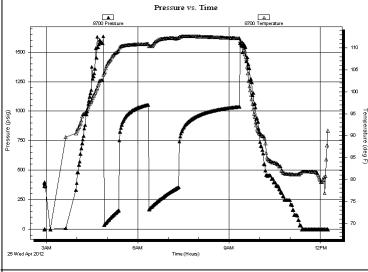
Start Time: 02:55:39 End Time:

Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 5min

60-ISIP-surface bl bk 60-FFP-wk to strg in 9min

120-FSIP-no bl



PRESSURE SUMMARY

				00111111111111111
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Tem				
heratii				
Temnerature (den F)				
9				
		1		i l

Recovery

Length (ft)	Description	Volume (bbl)		
0.00	0.00 90'GIP			
920.00	co	12.91		
40.00	MGO 25%G20%M55%O	0.56		
* Recovery from mul	tiple tests			

Gas Rates

CI	noke (inches)	Pressure (psig)	Gas Rate (Mcf/d)	
----	---------------	-----------------	------------------	--

Printed: 2012.04.25 @ 12:41:41 Trilobite Testing, Inc. Ref. No: 47369



FLUID SUMMARY

ppm

Caerus Kansas LLC 31 17s 13w Barton

P. O. Box 1378 Hays KS 67601 Mortimer 31-32

Job Ticket: 47369 **DST#: 4**

ATTN: Brian Karlin Test Start: 2012.04.25 @ 02:55:10

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 40 deg API

 Mud Weight:
 9.00 lb/gal
 Cushion Length:
 ft
 Water Salinity:

 Viscosity:
 50.00 sec/at
 Cushion Volume:
 bbl

Viscosity:50.00 sec/qtCushion Volume:bWater Loss:9.16 in³Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	90'GIP	0.000
920.00	co	12.905
40.00	MGO 25%G20%M55%O	0.561

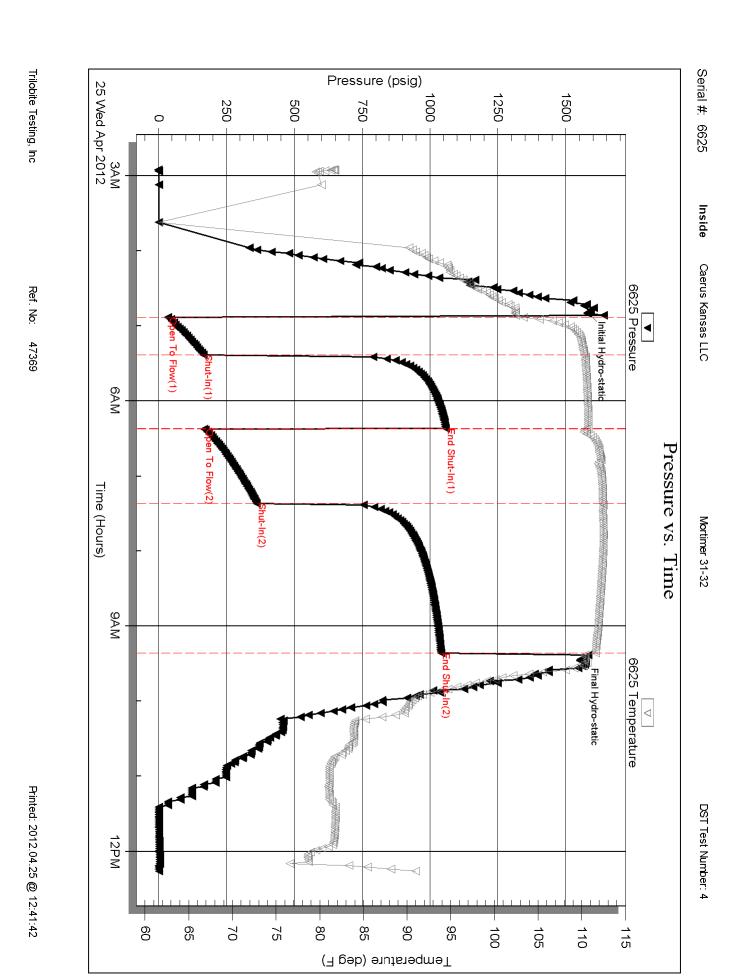
Total Length: 960.00 ft Total Volume: 13.466 bbl

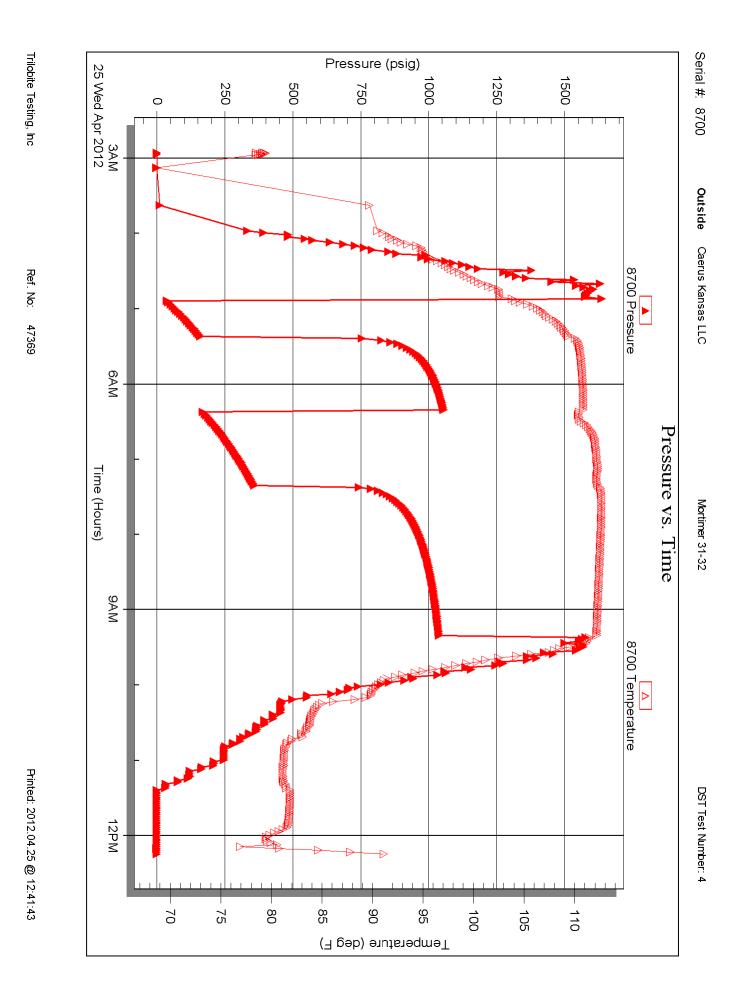
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47369 Printed: 2012.04.25 @ 12:41:42







TREATMENT REPORT

energy ser		L Lease No) .			Date , ,		
Lease M	, LLC	Well # -2	1 77	· · · · · · · · · · · · · · · · · · ·		4	-()	(6-1)
Field Order # Station	20 11 1	•	1-32 Gasir/g'	5 Depth	3,604	<u> </u>	$\frac{\alpha}{\alpha}$	ton state
Type Job	ratt, h		1012	トラット トラー Formation	<u> 3,6041</u>	teet		ton Itansas Scriptions - 13W
PIPE DATA	-Ongst 1	ating data	a a feed de	ISED		TREA	TMENT P	
					·			
	1	15050	Arold 60/4	OPOZL			SS CTION	(SIP) Keclucer, 5 Min.
	From		Se Pard 5LL	15/5.6				10 Min. J.
Volume Not Volume Max Press Max Press	From	√	8 6 6 Gal	4.30(Min 15 1 Ava	r., 1.18	CU.F	15 Min.
Well Connection Annulus Vol.	From	To	Jup D a l	P 1/2	HHP Used	1 40	(0)	Annulus Pressure
Plug Depth Packer Depth	From 50		/40Poztopl		(OSactos) Gasi Volumo SN Wal	and Mo	<u>1950 (20</u>	OSuc (TS) 170 les Total Load
3,5831 € 1 Customer Representative By	From	To Statio	1 00,31	, , , , , , , , ,			D	
2721/16			1/41	rid Sca	- 11-	Clave	Nee IZ'	Messich
Driver	٠ ۸ ،	905 19,8	1					
Names Me 551CT	Malta Tubing	bls. Pumped	awyence Rate			l	ing Low	
Time (1, //\) Pressure F	Pressure Bi	ois. Fulliped	Cementer				ce Log	s o ti a b
9:00		Vuctor 6	n location		A	1 .		carron
11.							J	nt with Latch Dow
1 1		, ,	larandata			,		Tested 15.5 Lb/F7
			talled on top					= installed
	19.77)9/3K	VI WU JUL		on Colla				
2:40							•	1 Rotate Por 1 Hour.
· I	.500					essure T		
1:48 300		:	6			later Pr		
		20	6 .	Start				
		32	6.			Vater Si	Dacer.	
1:57 300		52	5					10 Pozcement
-0-		93						sh pump and lines
				Releas	Latch	DownP	lyOp	en Well.
2:15 100			65					ement.
		65	5			Cement		
2:27 700	(82.3	•	Plugd	own.			·
1,750		·	· .	Pressu	re up.			
``				Peleas	e bleze			hoeheld.
		7-5	3			Mouse h		
				1 1 / .		ptiruch		
3:15				Top C	SMOLET	<u>.</u>		
10244 NE Hiway	y 61 • P.O.	Box 8613	 Pratt, KS 6 	7124-861	3 • (620)	672-120	1 • Fax	(620) 672-5383

Thank You Clarence, Mitte, Mitte

Taylor Printing, Inc. 620-672-3656

QUALTY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410 Office / Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

	Sec.	Twp.	Range	(County	State	On Location	Finish
Date H-20-12	31	17	13	Ber	ton	KS		7:00
Lease Mortamer	Vell No.	31-32	Location	on Hasington, us 11/2 w winter				
Contractor NIMESCAN DELLING					Owner			
Type Job Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish				
Hole Size	T.D. 850			cementer and helper to assist owner or contractor to do work as listed.				
Csg. 8 7/8		Depth 846			Charge Coerus Kansas LLC			
Tbg. Size		Depth			Street			
Tool		Depth			City State			
Cement Left in Csg. 44.09		Shoe Joint 44.09			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace 5/66/		Cement Amount Ordered 4/50 SV com 3 % CC 2/6901				
EQUIPMENT								
Pumptrk No. K		David			Common			
Bulktrk No. 7	170000			Poz. Mix				
Bulktrk No.				Gel.				
Pickup No.				Calcium				
JOB SERVICES & REMARKS					Hulls			
Rat Hole					Salt			
Mouse Hole					Flowseal			
Centralizers					Kol-Seal			
Baskets					Mud CLR 48			
D/V or Port Collar					CFL-117 or CD110 CAF 38			
Ran 19 sts of 85/8 casing and					Sand			
landing 1+					Handling			
					Mileage			
Est Circulation with mud					FLOAT EQUIPMENT			
numn					Guide Shoe			
					Centralizer			
Hooked up mixed 150 st - Shut down					Baskets			
Released plug and disp with 51					AFU Inserts			
bbl H20 - plug landed @ 700 psi					Float Shoe			
Shutin					Latch Down			
					Rubber Plug			
							J	
Cement D. & Circulate is					Pumptrk Charge			
p)					Mileage			
Thank You'i						Tax		
							Discount	
Signature						1	Total Charge	
			777					Taylor Printing, Inc.

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

May 29, 2012

Amy Lay Caerus Kansas LLC 600 17TH ST, STE 1600 N DENVER, CO 80202

Re: ACO1 API 15-009-25680-00-00 Mortimer 31-32 NE/4 Sec.31-17S-13W Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Amy Lay