Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1254757

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 North / South Line of Section
City:	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	Lease Name: Well #:
Designate Type of Completion:	
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
Oil WSW SWD SIOW	Producing Formation:
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW ☐ Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	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	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume: bbls
□ Commingled Permit #: □ Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
	Operator Name:
_	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	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:

1254757

Operator Name:				_ Lease	Name: $_$				Well #:		
Sec Twp	S. R	East W	/est	County	/:						
open and closed, flow	ow important tops of for ring and shut-in pressu o surface test, along w	res, whether sl	hut-in pre	ssure read	ched stati	c level, hydr	ostatic press				
	g, Final Logs run to ob ed in LAS version 2.0 o					gs must be	emailed to ke	cc-well-log	gs@kcc.ks.gov	/. Digital	electronic log
Drill Stem Tests Taker (Attach Additional		Yes [No		L	Ü	nation (Top),	Depth and			Sample
Samples Sent to Geo	logical Survey	Yes [No		Nam	e			Тор		Datum
Cores Taken Electric Log Run		Yes [No No								
List All E. Logs Run:											
		Papart all at	CASING		☐ Ne						
	Size Hole	Size Casi		Wei		ermediate, pro Setting		pe of	# Sacks	Type a	and Percent
Purpose of String	Drilled	Set (In O.		Lbs.		Depth		ement	Used		dditives
		ADI	DITIONAL	CEMENTI	NG / SQL	JEEZE RECO	ORD		I	l	
Purpose:	Depth Top Bottom	Type of Cer	ment	# Sacks	s Used		٦	Type and Pe	ercent Additives		
Perforate Protect Casing Plug Back TD											
Plug Off Zone											
Did you perform a hydrau	ulic fracturing treatment or	this well?				Yes	No	(If No. skir	o questions 2 an	nd 3)	
-	otal base fluid of the hydra		eatment ex	ceed 350,0	00 gallons		☐ No		question 3)	.u 0)	
Was the hydraulic fractur	ring treatment information	submitted to the	chemical d	lisclosure re	egistry?	Yes	No	(If No, fill o	out Page Three	of the ACC)-1)
Shots Per Foot		N RECORD - B				Acid	, Fracture, Sho		Squeeze Record	t	Depth
	, ,								,		
TUBING RECORD:	Size:	Set At:		Packer A	At:	Liner Run:	Yes	☐ No			
Date of First, Resumed	Production, SWD or ENH		ucing Meth	od:	ng \square	Gas Lift	Other (Exp	ulain)			
Estimated Production Per 24 Hours	Oil B			Mcf	Wate		Bbls.		as-Oil Ratio		Gravity
		I									
DISPOSITION Vented Solo	ON OF GAS: Used on Lease	Open H	_	IETHOD OF Perf.		TION: Comp.	Commingled		PRODUCTIO	N INTER\	/AL:
	bmit ACO-18.)	Other (S			(Submit		(Submit ACO-4				

Form	ACO1 - Well Completion
Operator	Ainsworth Operating Co.
Well Name	Davis 4
Doc ID	1254757

All Electric Logs Run

Dual Induction
Microresistivity
Compensated Porosity
CPI
Sonic Log

Form	ACO1 - Well Completion
Operator	Ainsworth Operating Co.
Well Name	Davis 4
Doc ID	1254757

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	256	80/20		3%cc, 2%gel
Production	7.875	5.5	15.5	3881	common	150	10%slt, 2%gel



API No.

15-065-24,098-00-00

County

Graham

Location

2,160' FNL & 440' FEL

Other Services
DIL MEL/BHCS

Pioneer Energy Services

Dual Compensated Porosity Log

Company Ainsworth Operating Company Well Davis No. 4 Field Red Sun

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Date Run Number

)epth Driller

CNL / CDI

One

3882 3861 388 3/2/2015

lottom Logged Interval op Logged Interva pe Fluid In Hole

Log Measured From Drilling Measured From Permanent Datum

Ground Level Kelly Bushing Kelly Bushing

6

Ft. Above Perm. Datum Elevation 2245

GDX LTB

Elevation 2255

Twp:

Comments

Thank you for using Pioneer Energy Services 785.625.3858

Hill City, 8 North to Y Road, 4 East to 310 Road, 1 North to Z Road, 1/2 East, South Into

Database File: ainsworth_davis_4hd.db

dil/ainsstck Dataset Pathname:

Run No.

맑

From 268

708 708 708

Size .625

23#

268 0

<<< Fold Here >>>

Casing Record From 8

Borehole Record

Randy Kilian

*N*itnessed By Recorded By -quipment

One

Wo

7.875

Operating Rig Time

Location

108

Hays

1/2 Hours

Max. Rec.

Temp.

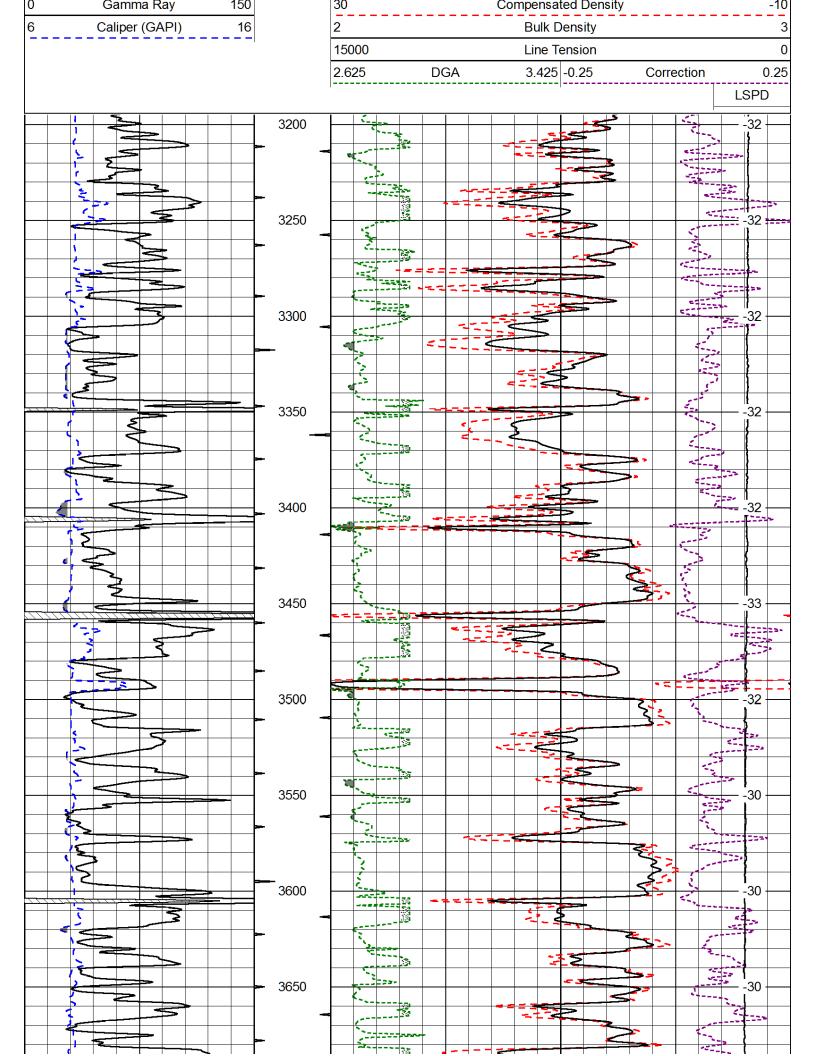
Level Density Salinity, PPM CI

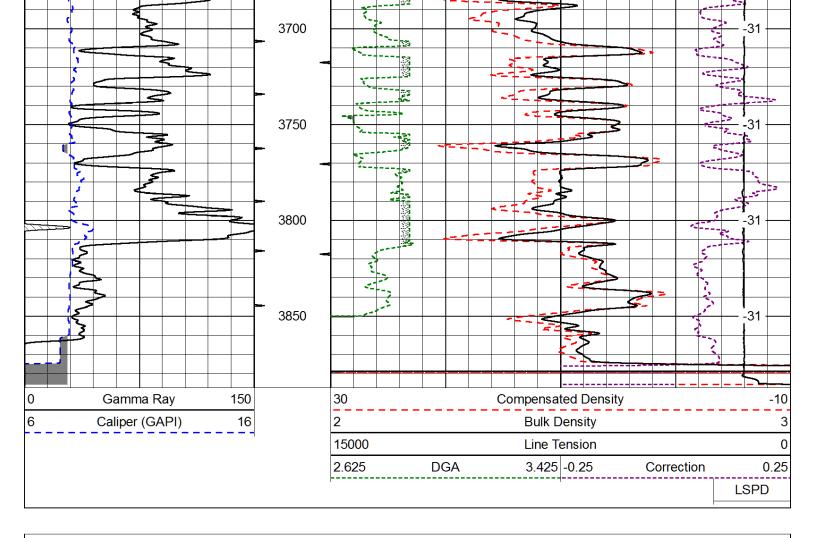
<u> hemical</u>

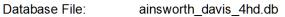
500 9.1 Full 115

Presentation Format:

Dataset Creation: Sun Mar 01 23:04:51 2015 Charted by: Depth in Feet scaled 1:600

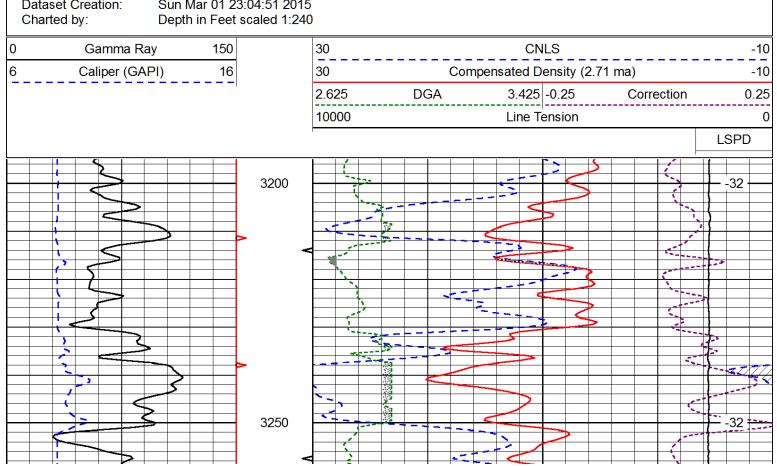


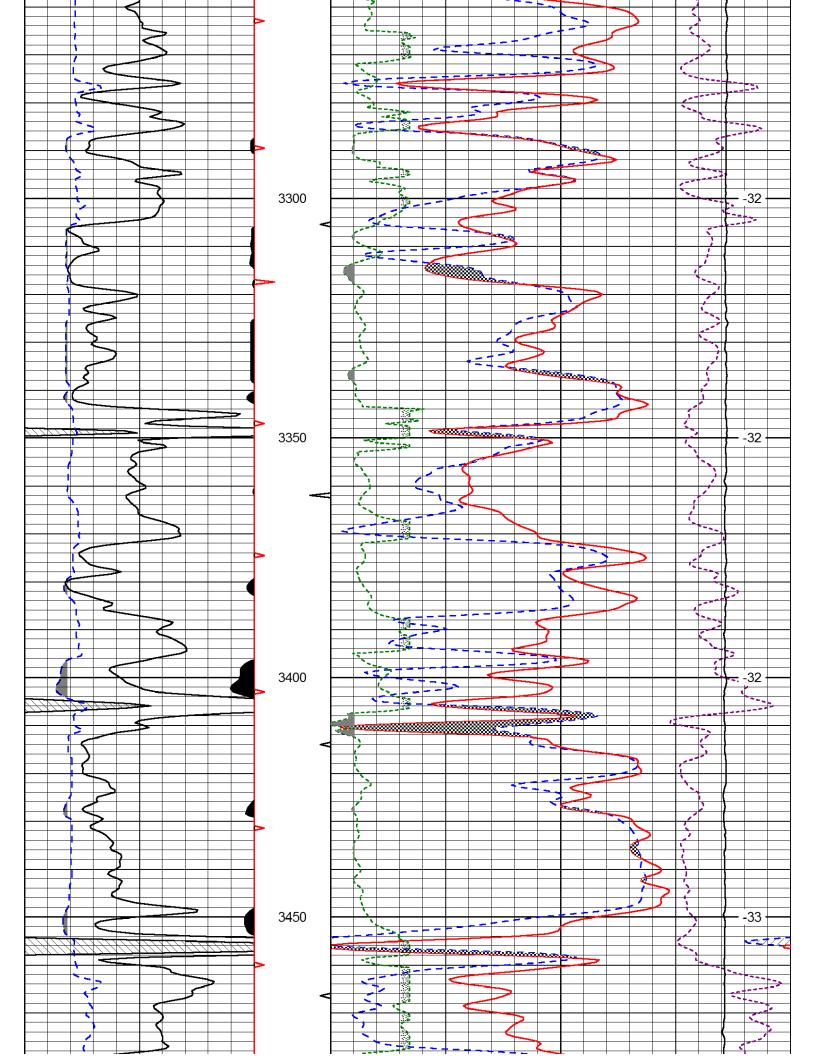


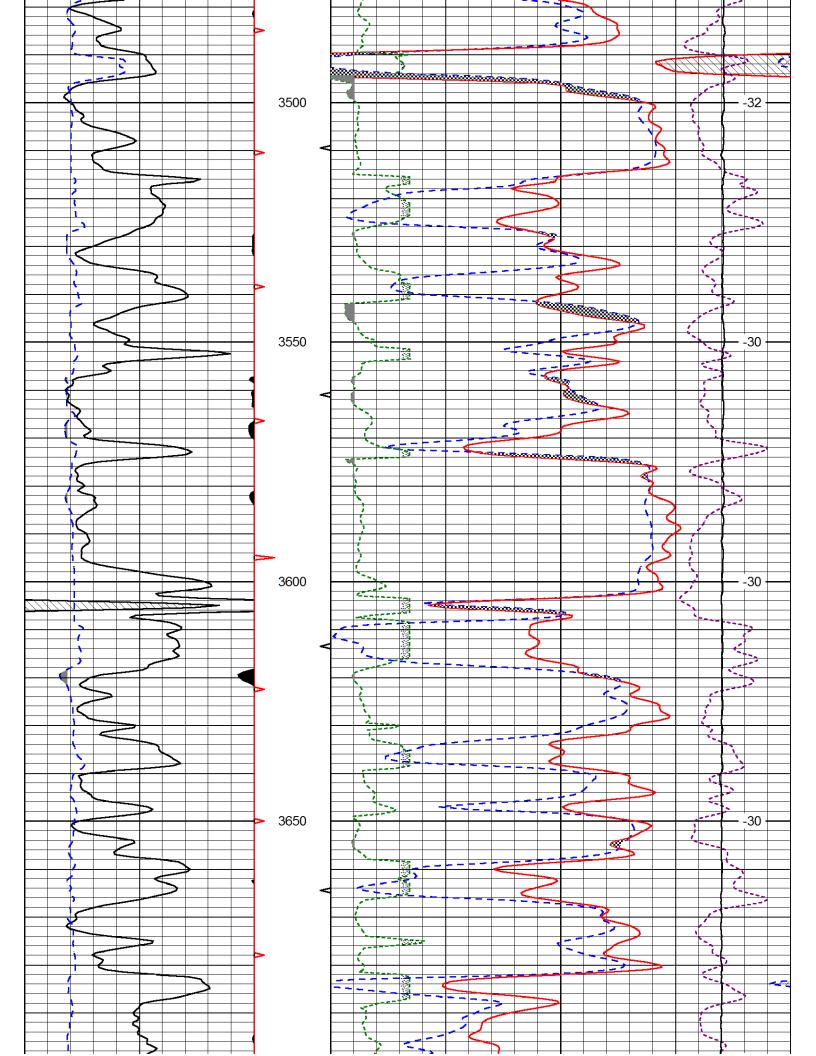


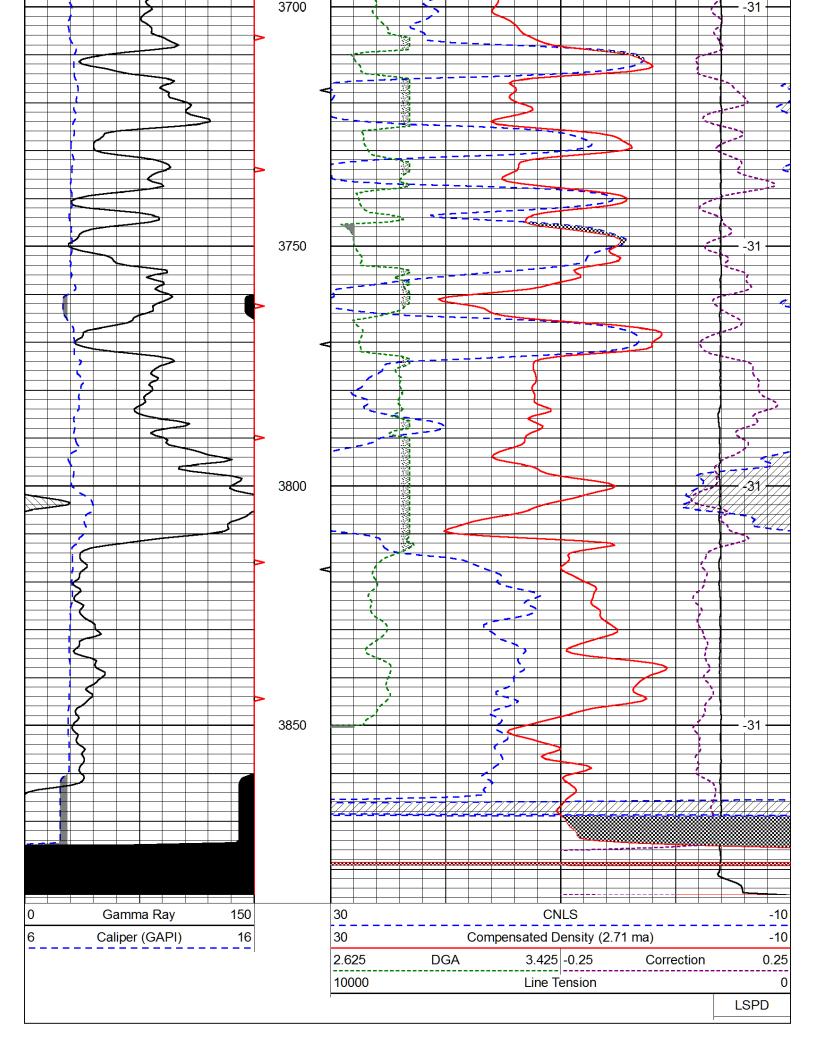
Dataset Pathname: dil/ainsstck Presentation Format: cndlspec

Sun Mar 01 23:04:51 2015 **Dataset Creation:** Depth in Feet scaled 1:240 Charted by:











15-065-24,098-00-00

Field

Red Sun

Location

2,160' FNL & 440' FE

Other Services
CNL/CDL
DIL/BHCS

County

Graham

Pioneer Energy Services

API No.

Company Ainsworth Operating Company

Davis No. 4

Microresistivity Log

<<< Fold Here >>>
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Permanent Datum
Log Measured From
Drilling Measured From

Ground Level Kelly Bushing Kelly Bushing

6

Elevation 2245 Ft. Above Perm. Datum

GDX LTB

Elevation . 2255

Twp:

<u>6</u>S

Comments

Thank you for using Pioneer Energy Services 785.625.3858

Hill City, 8 North to Y Road, 4 East to 310 Road, 1 North to Z Road, 1/2 East, South Into

Database File: ainsworth_davis_4hd.db

Dataset Pathname: dil/ainsstck
Presentation Format: micro

Recorded By Mitnessed By

quipment Number

perating Rig Time

1/2 Hours

15

Hays

108

<u>Charts</u>

999

888

®

115

Rec.

mc @ Meas. Temp ource of Rmf / Rmc

Temp Temp

.89 .60

Flowline

ource of Sample

Fluid Loss

ensity / Viscosity

Fluid in Hole

Chemica

44

.875

66 (9)

268

<u>asing Driller</u>

Log Interva

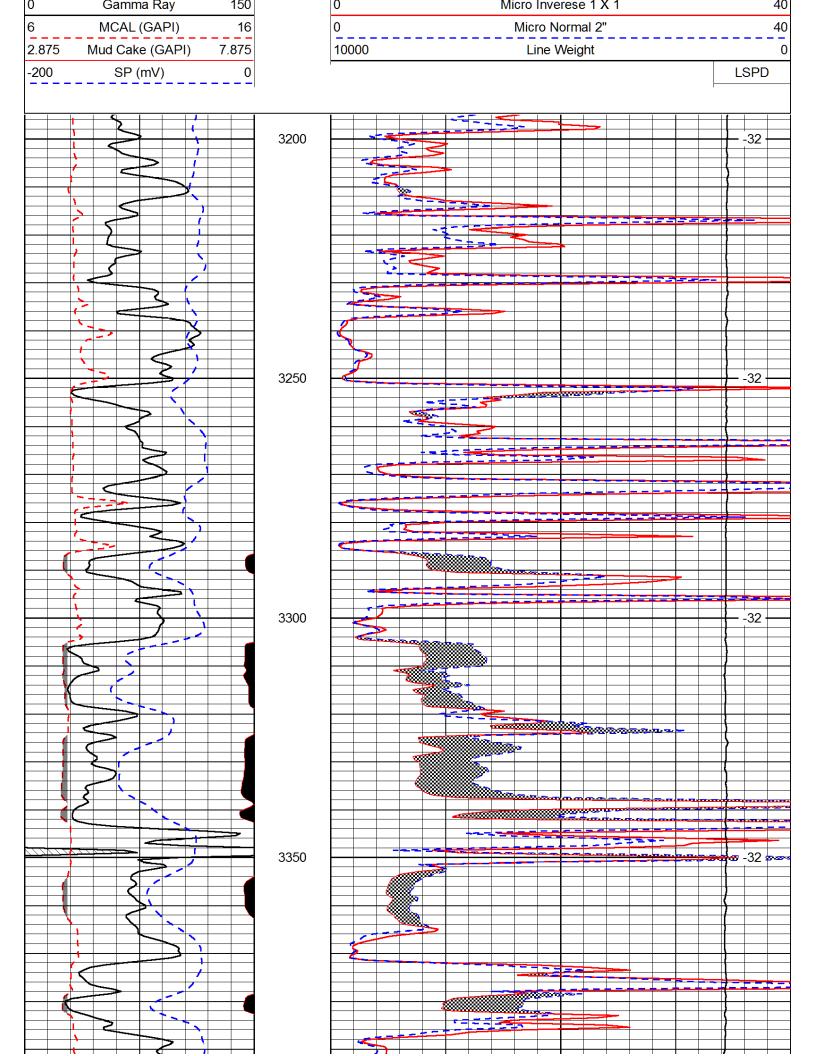
ttom Logged

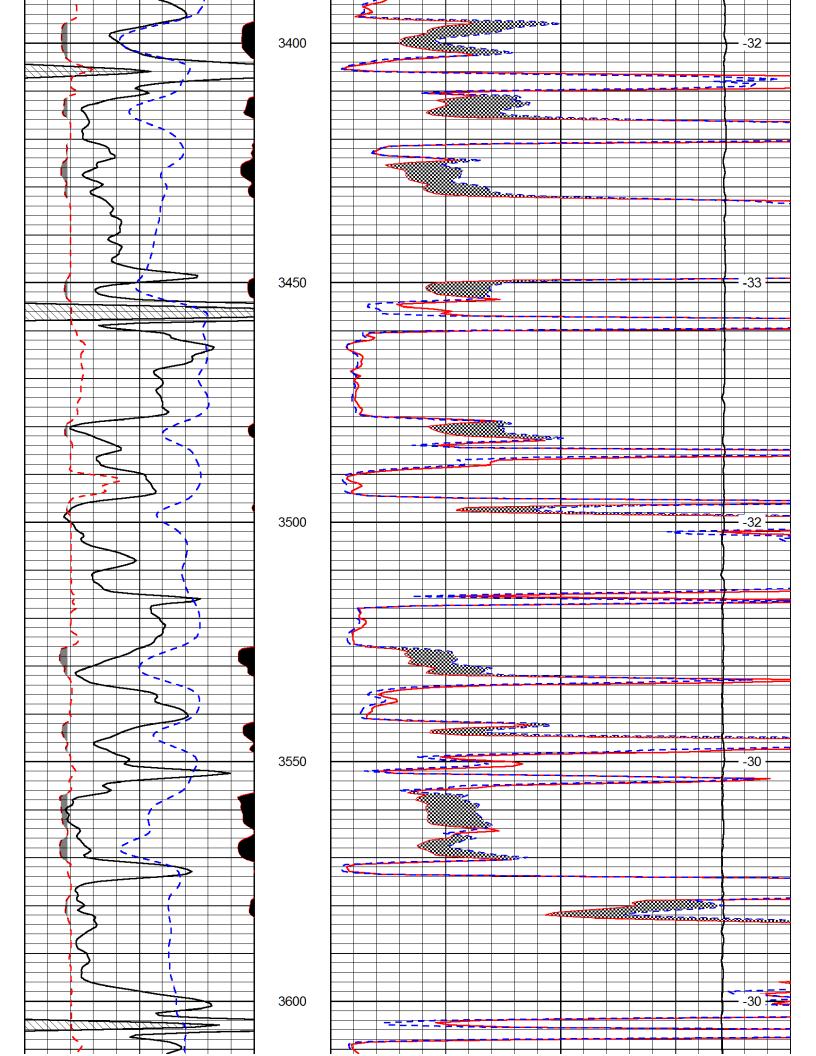
Interval

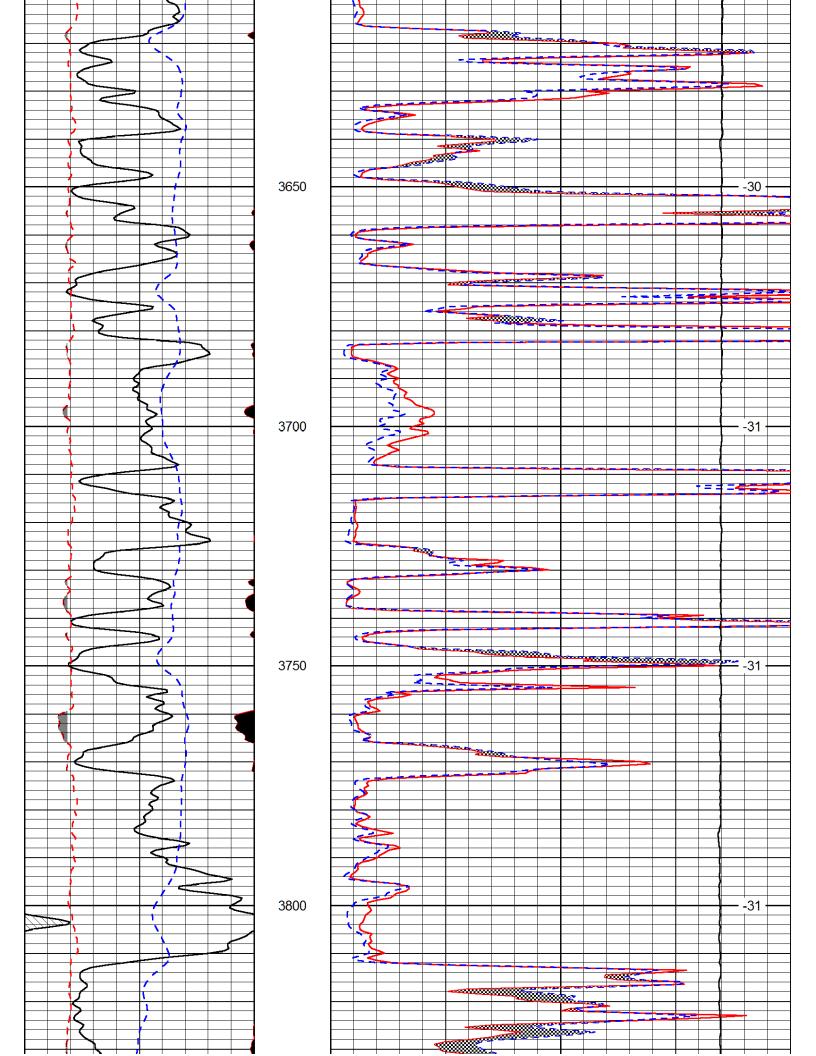
388

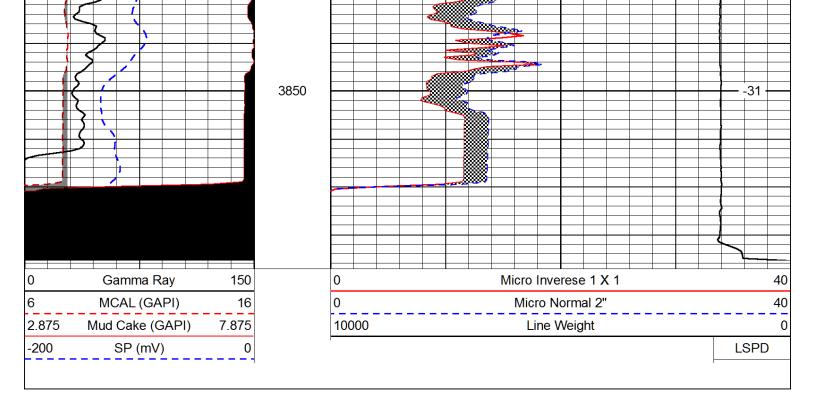
<u> Driller</u>

Dataset Creation: Sun Mar 01 23:04:51 2015 Charted by: Depth in Feet scaled 1:240











15-065-24,098-00-00

API No.

ONEER	Dual Induction Log	<u>ű</u>
er Energy Services		
Company Ainswo	Ainsworth Operating Company	
Well Davis No. 4	lo. 4	
Field Red Sun	D	
County Graham	າ State Kansas	
Location 2,160' FN	Other CN 2,160' FNL & 440' FEL MEI	Other Services CNL/CDL MEL/BHCS
Sec: 34 Twp:	6S Rge: 22W	Elevation
tum Ground Level From Kelly Bushing red From Kelly Bushing	Elevation 2245 10 Ft. Above Perm. Datum D.F. G.L. 2	2255 2245
3/2/;	3/2/2015	
38	One	
	3882	
nterval	3881	
8.625 (© 268	
r 26	66	
Hole Cher	mical The second	
	500	
osity 9.1	44	
nnle Flov	D 8.4	
np 1.4	20 66	
1.05	@ 66	
1.89	8 66	
t/Rmc Ch	Charts	·>
_	잂	e >>
	115	Her
Imber 10	108	old
J. I	long	<<
Randy	Randy Kilian	

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

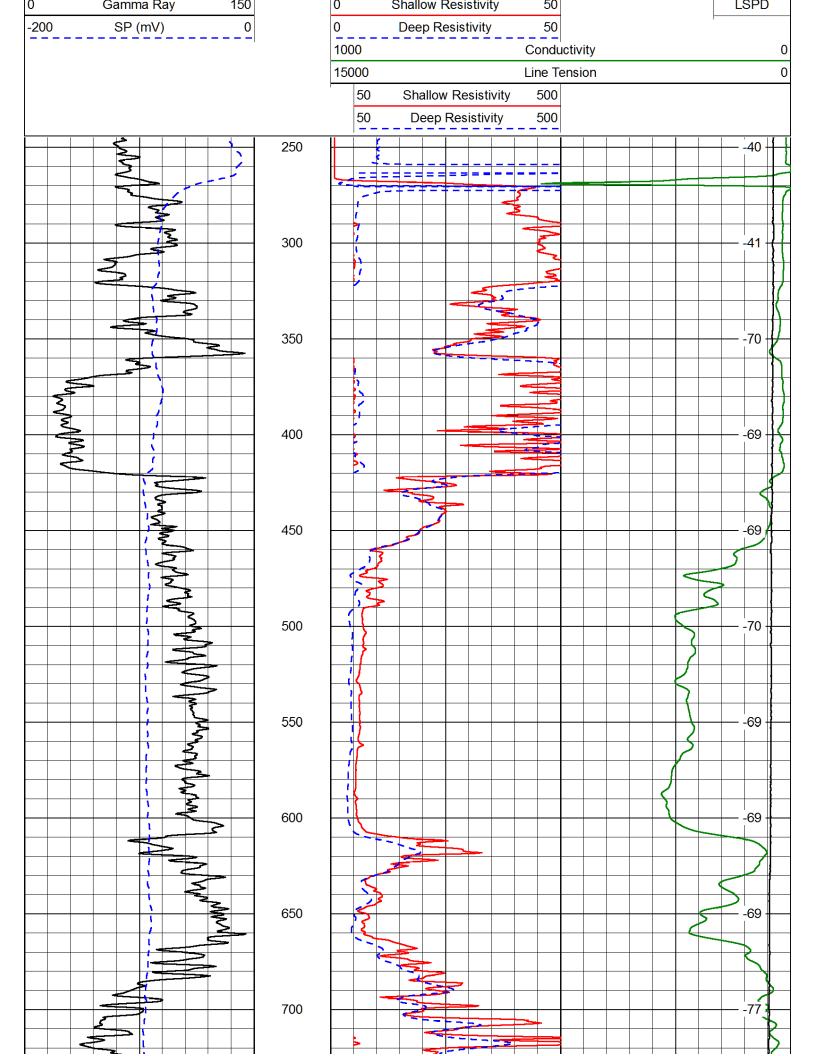
Thank you for using Pioneer Energy Services 785.625.3858

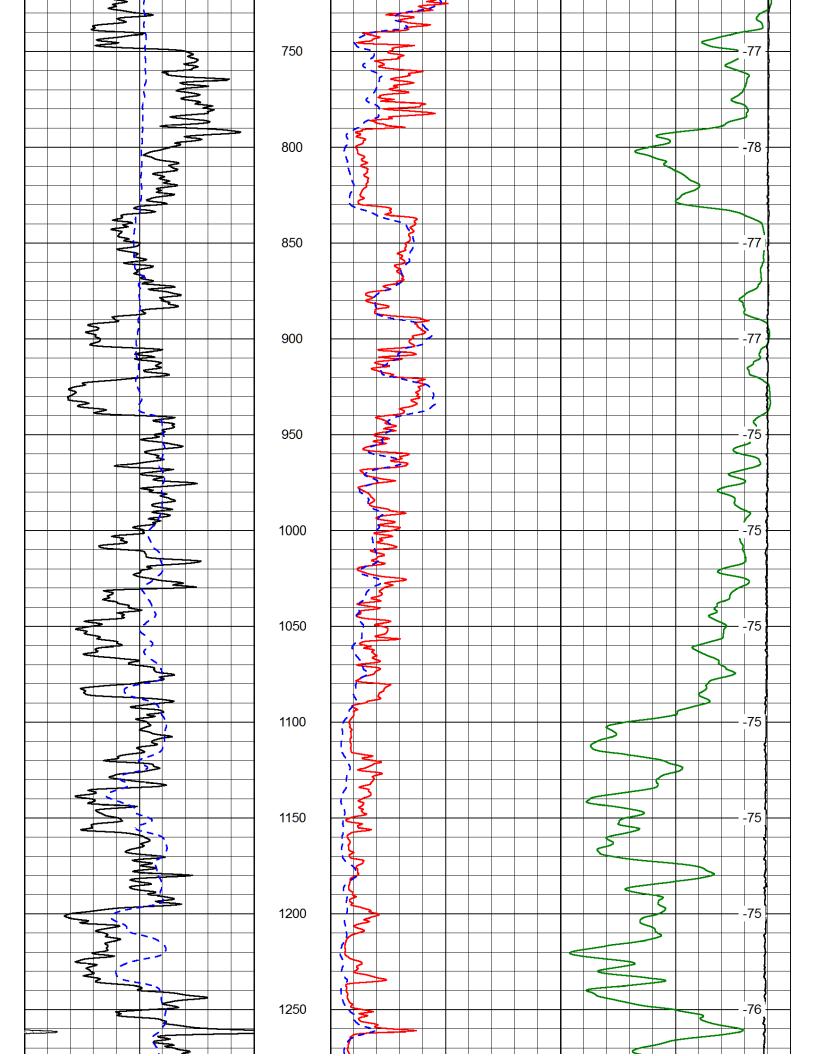
Hill City, 8 North to Y Road, 4 East to 310 Road, 1 North to Z Road, 1/2 East, South Into

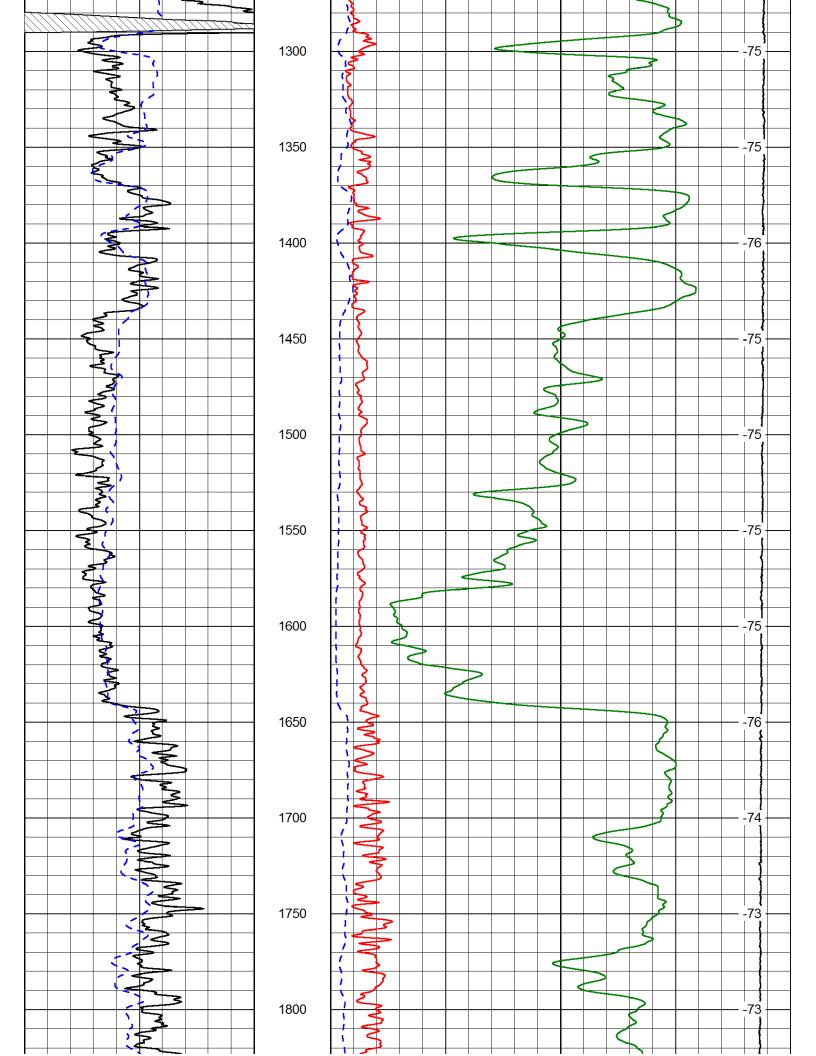
Database File: ainsworth_davis_4hd.db

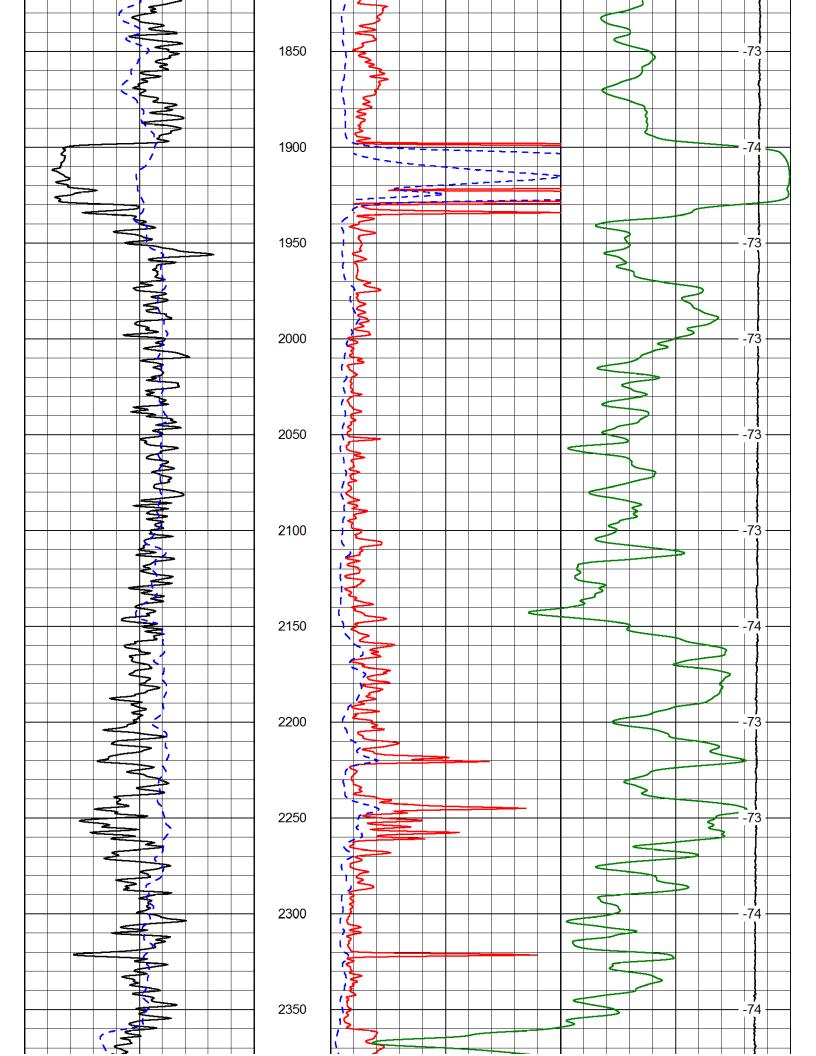
dil/ainsstck Dataset Pathname: Presentation Format: dil2in

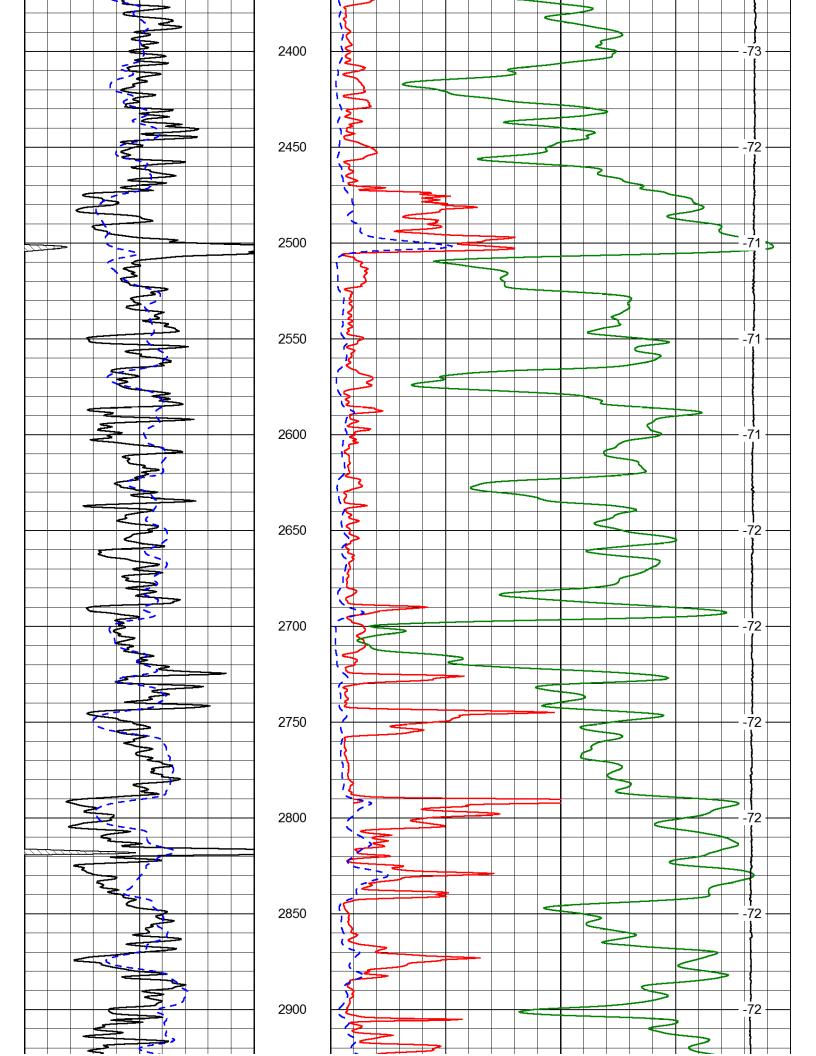
Dataset Creation: Sun Mar 01 23:04:51 2015 Charted by: Depth in Feet scaled 1:600

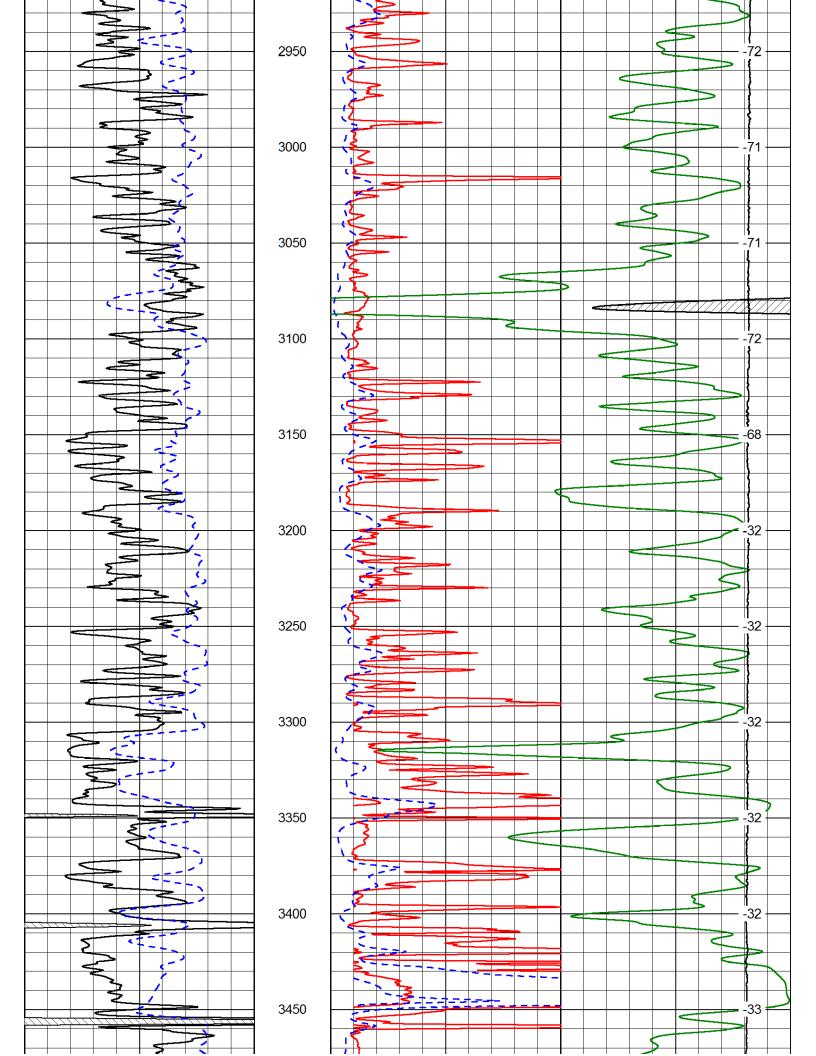


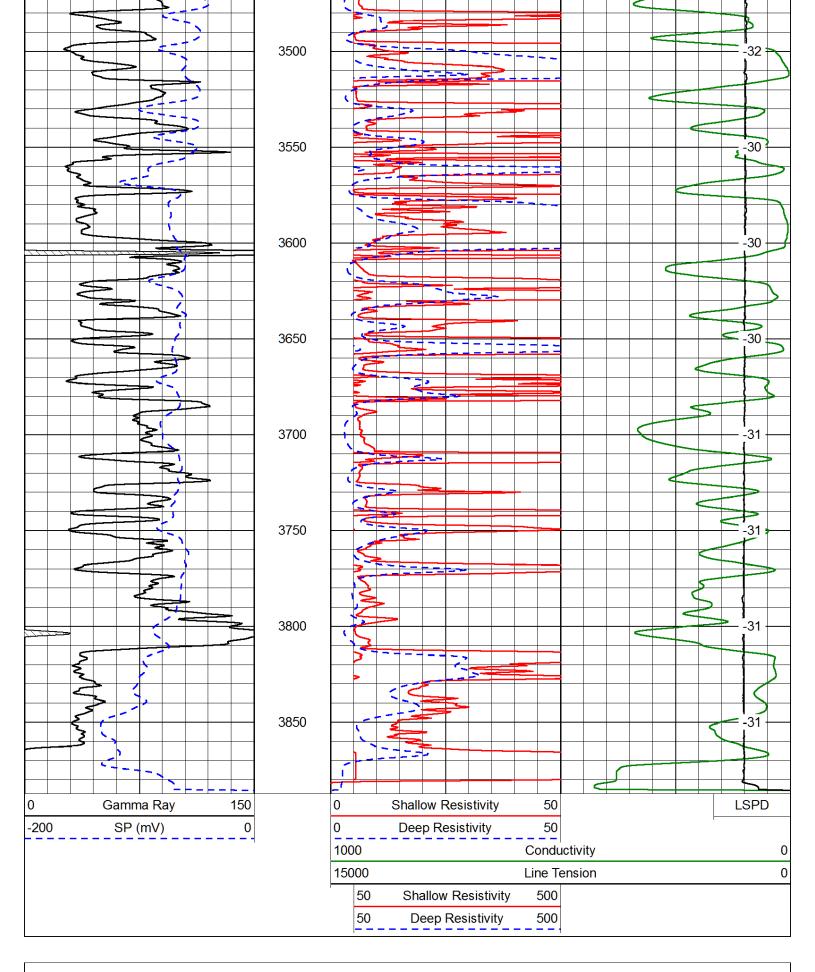










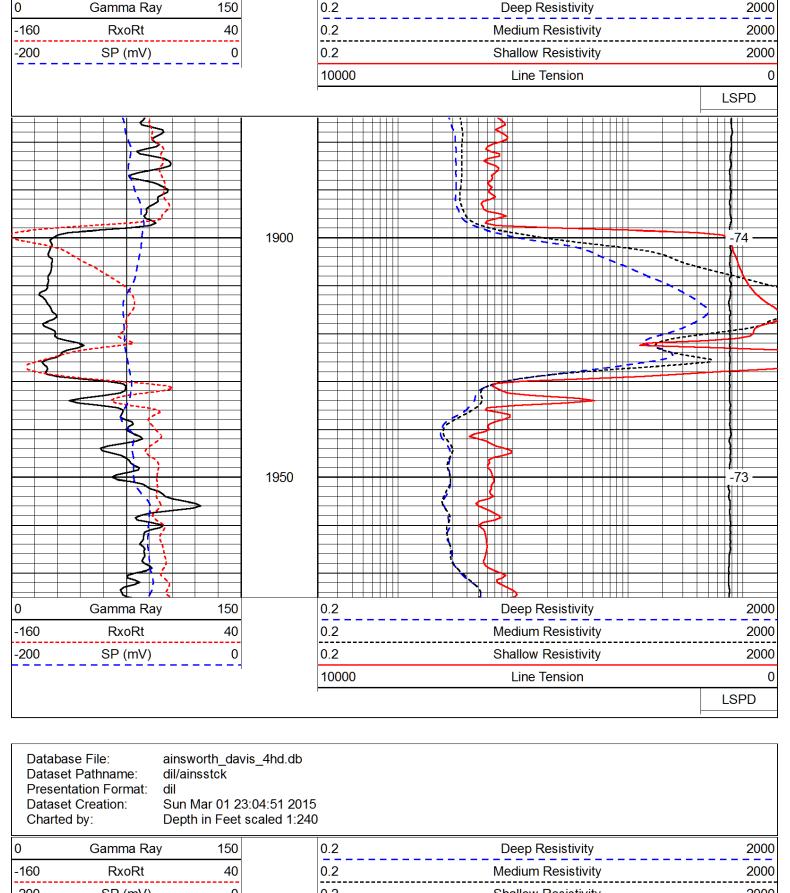


ainsworth_davis_4hd.db dil/ainsstck Database File:

Dataset Pathname:

Presentation Format: dil

Dataset Creation: Sun Mar 01 23:04:51 2015 Depth in Feet scaled 1:240 Charted by:

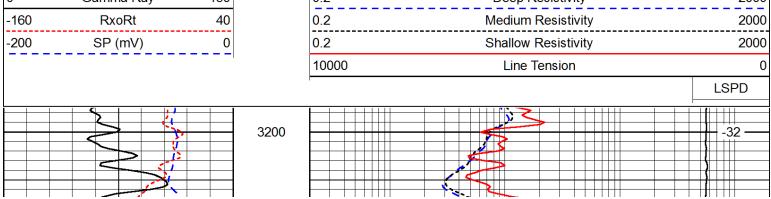


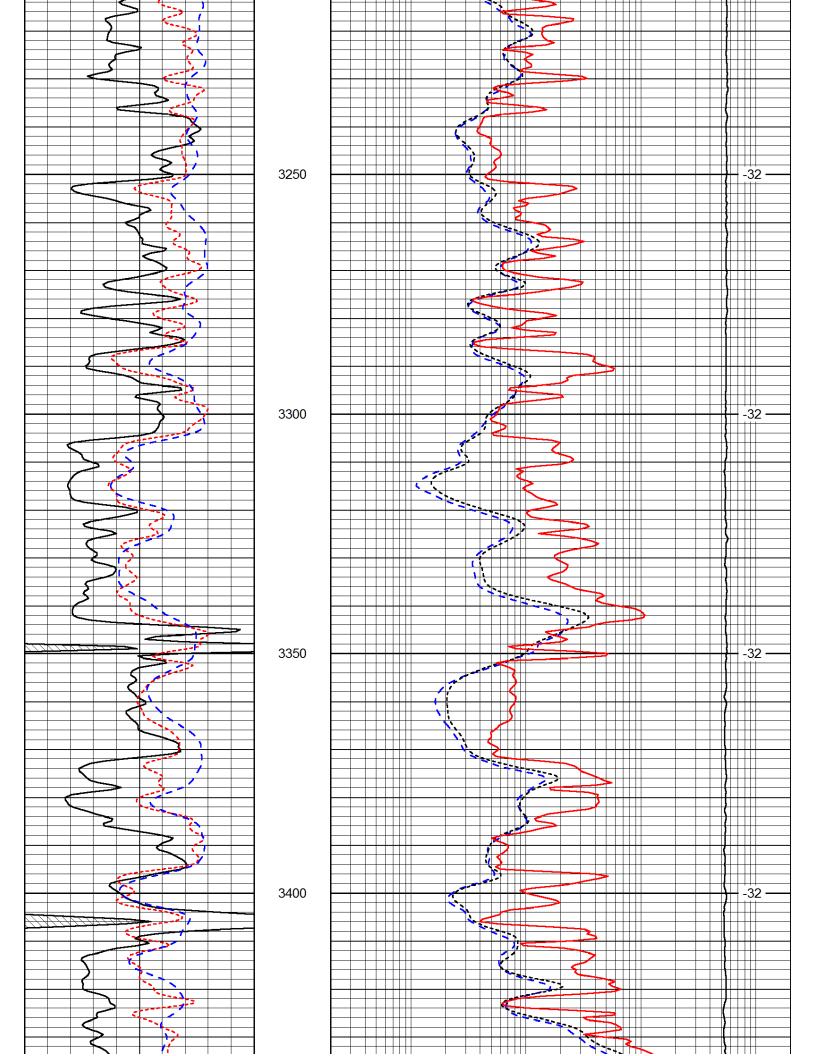
0.2

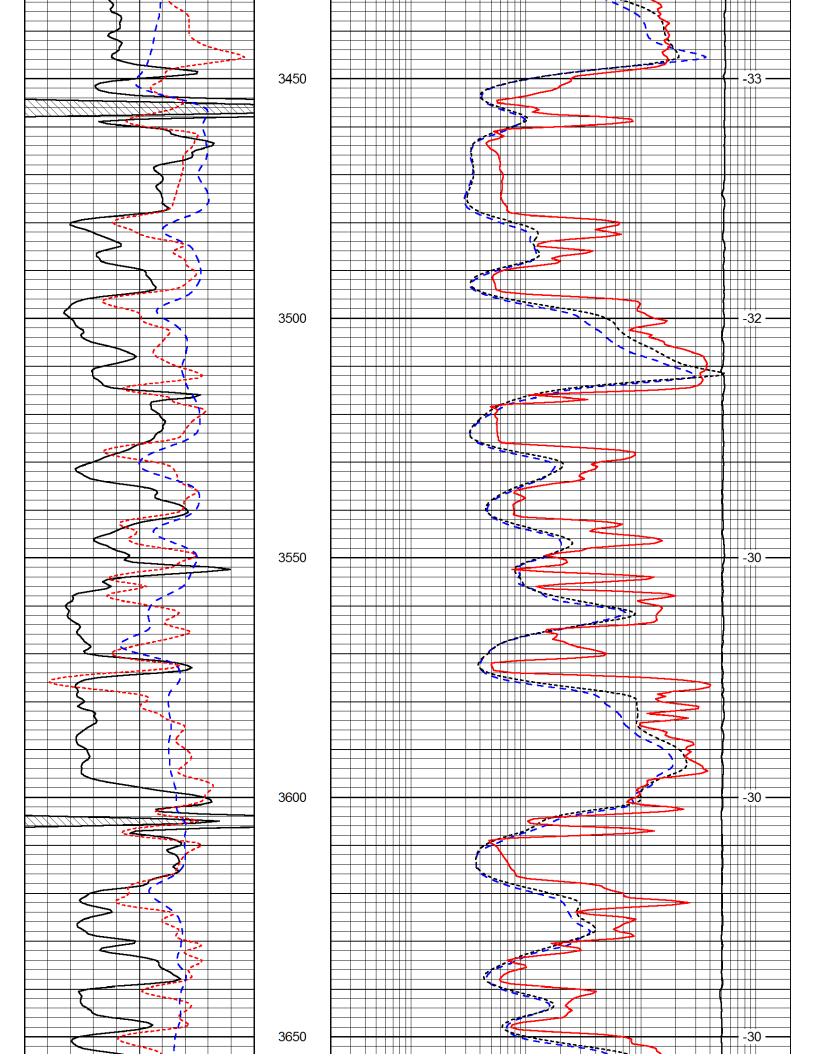
2000

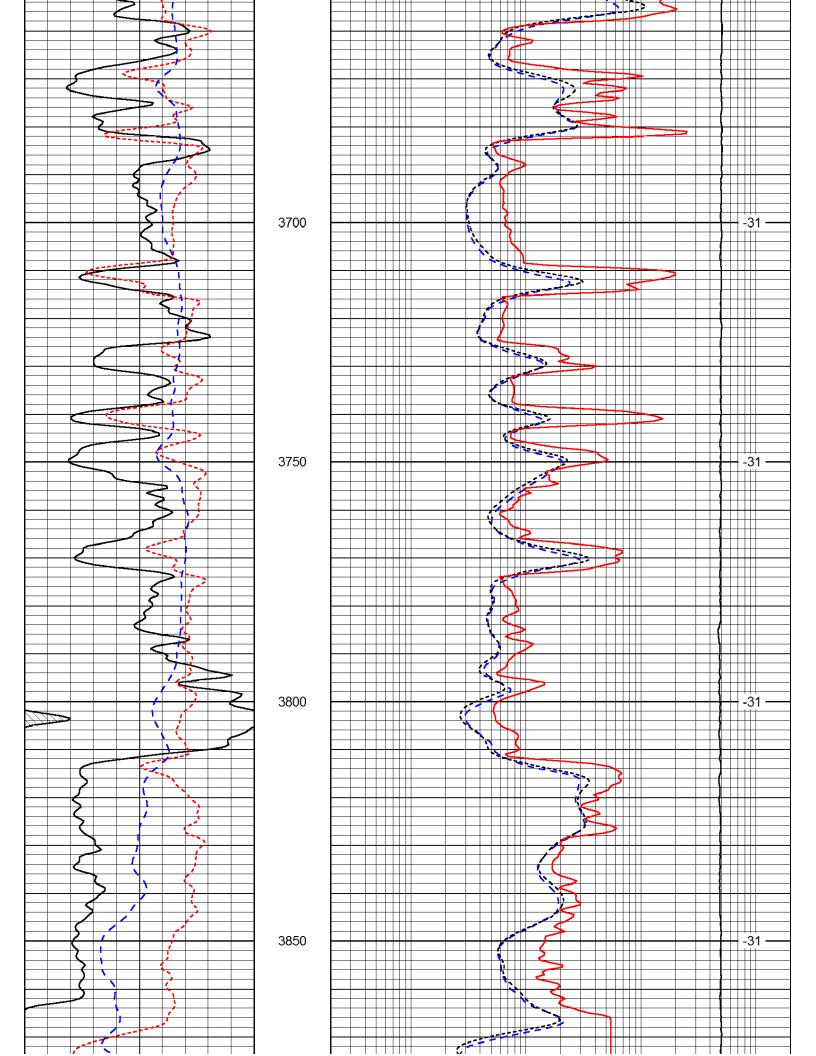
Gamma Ray

150









0	Gamma Ray	150	0.2 Deep Resistivity	2000
-160	RxoRt	40	0.2 Medium Resistivity	2000
-200	SP (mV)	0	0.2 Shallow Resistivity	2000
			10000 Line Tension	0
				LSPD



Pioneer Energy Services

API No.

15-065-24,098-00-00

				TD	268	
268	00	23#	8.625	268	00	
То	From	Wgt.	Size	То	From	
	Casing Record				Borehole Record	Bor
			ň	Randy Kilian		
				J. Long		
			Hays	108 Ha	_ocation	Loc
			S	4 1/2 Hours	е	Time
				115	F	mp.
				Full		
				9.1		
				500	<u> </u>	M C
				Chemical		Hole
				250	al	<u>nterval</u>
				3871	d Interval	d In
				3882		
				3881		
			0	BHC Sonic		
				Two		
				3/2/2015		
.L. 2245					om	red
K.B. 2255 D.F.)atum	Elevation ZZ45 Above Perm. [Ground Level Kelly Bushing 10		From
Elevation	2776	ryer.		- wp. 06	۲	
!	Ros. 33W	Rge.	,,	Twn: 65	Sec: 34	S
WEL/DIL			440' F	2,160' FNL & 440' FEL		
Other Services					Location	٦٥٦
as	State Kansas	(0		Graham	County (С
				Red Sun	Field	<u>Fi</u>
			4	Davis No. 4		Well
~	Compan	ating	Oper	Ainsworth Operating Company	Company A	င္ပ
)	•)			

Operating Ric

Density

Level

quipment --

One Two

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Comments

Thank you for using Pioneer Energy Services 785.625.3858

Hill City, 8 North to Y Road, 4 East to 310 Road, 1 North to Z Road, 1/2 East, South Into

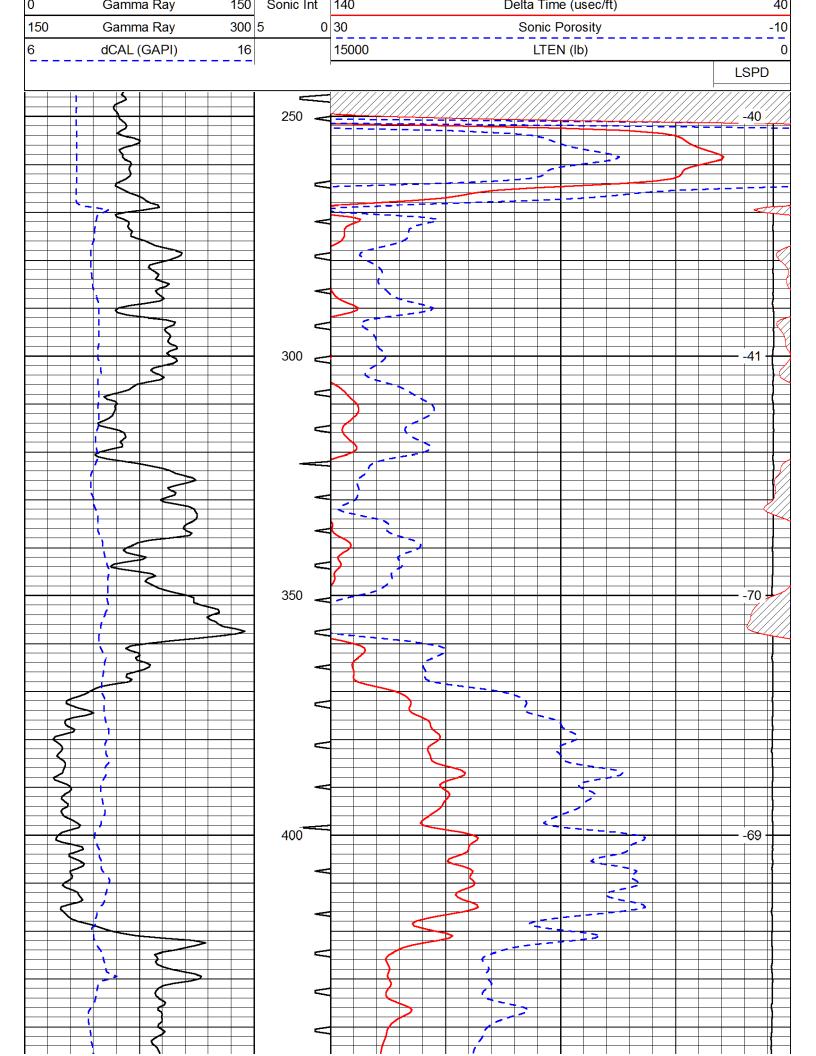
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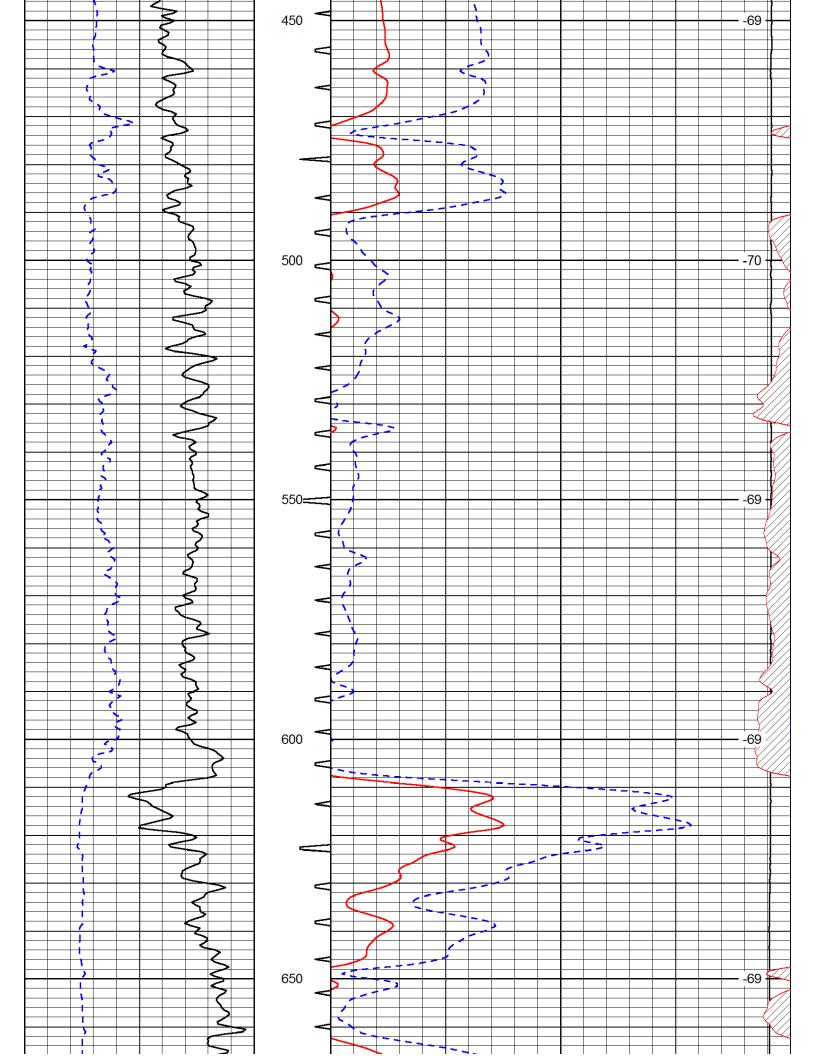
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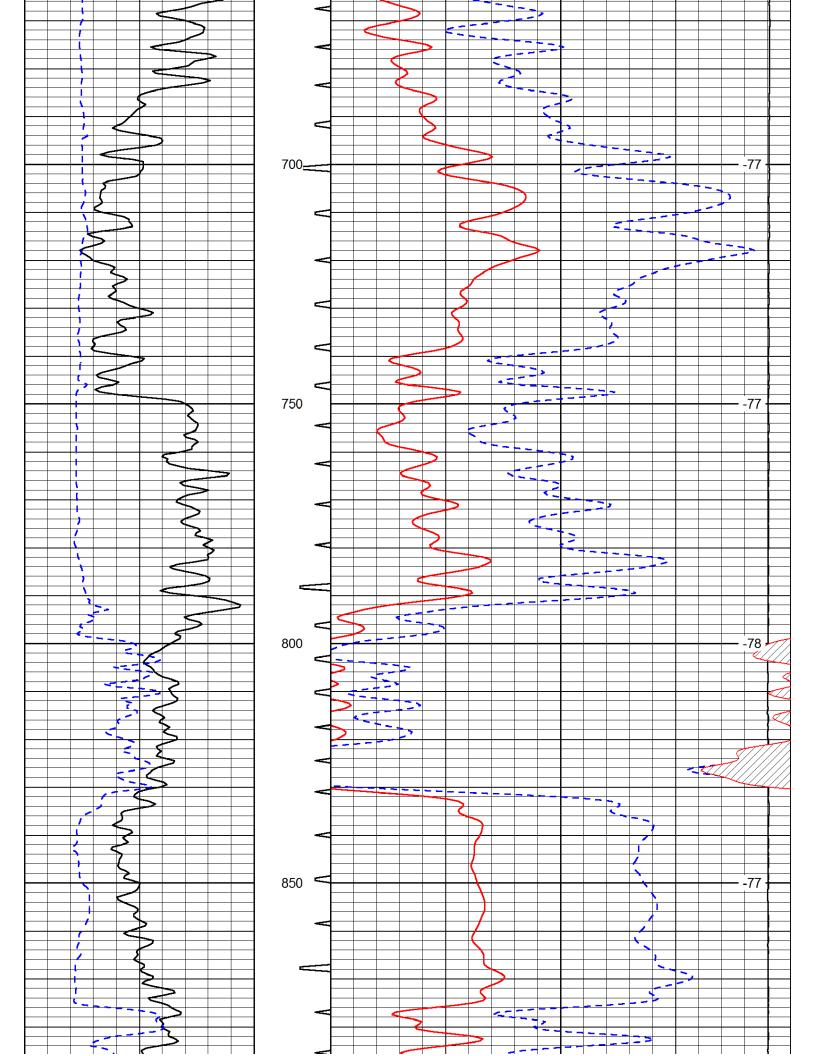
Presentation Format: sonic

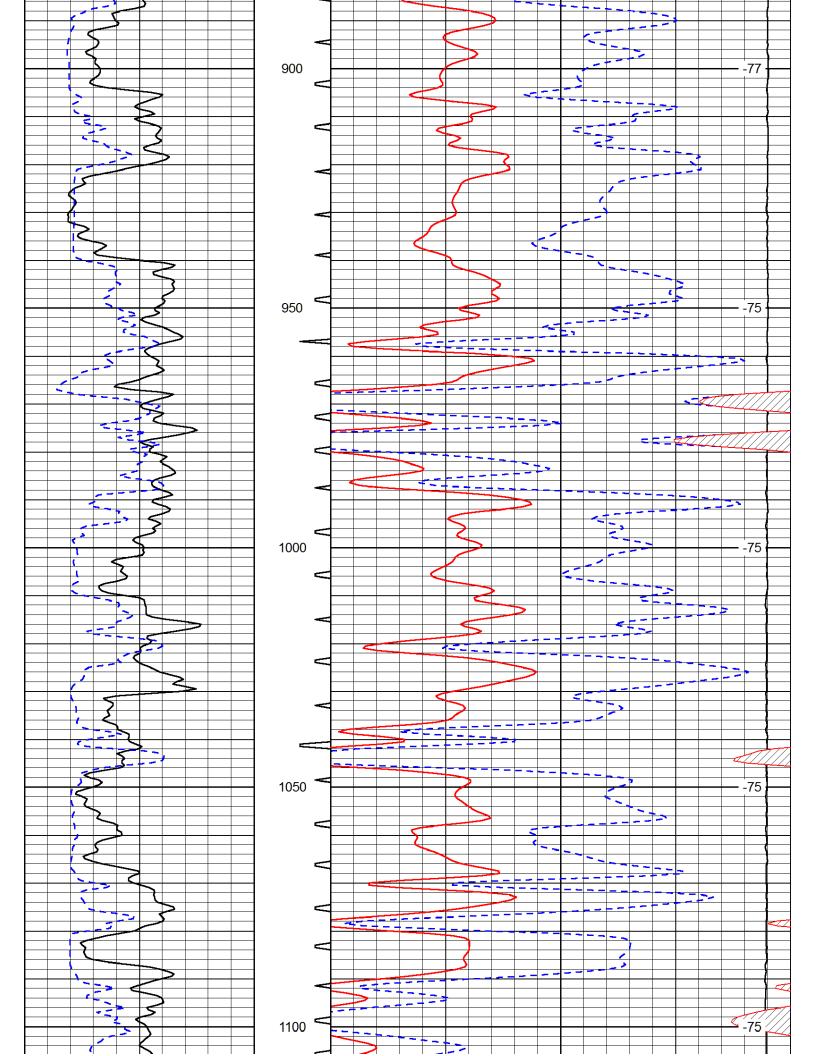
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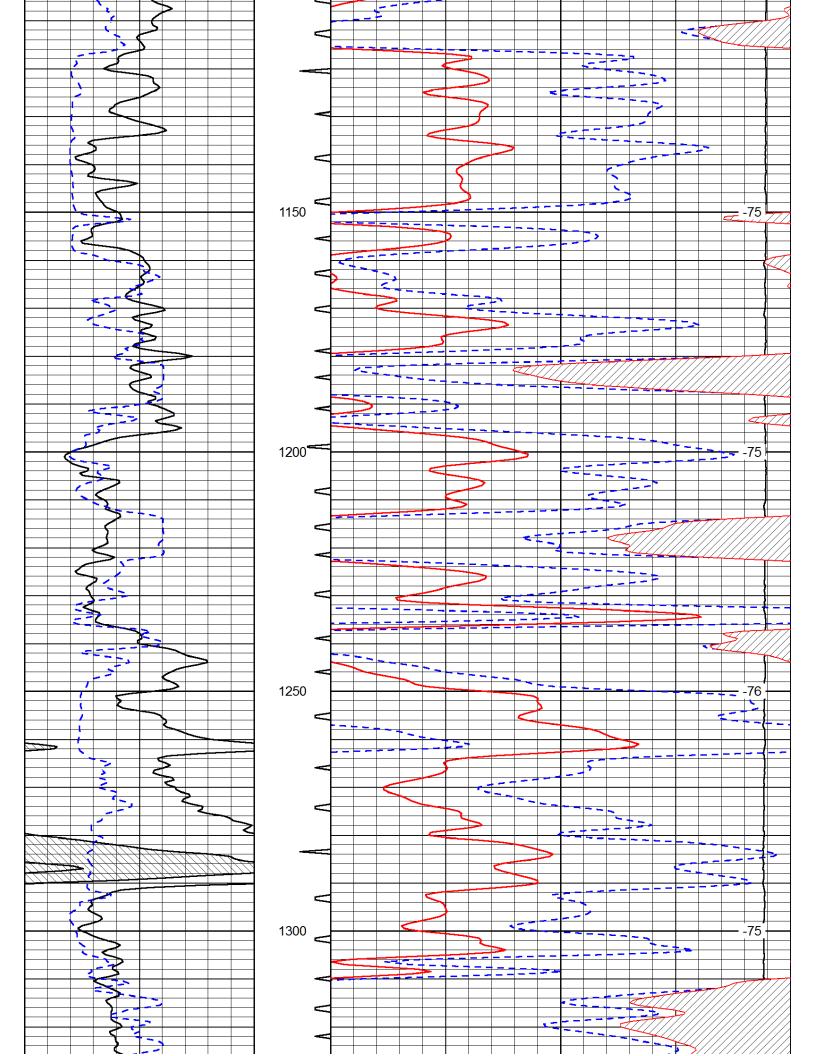
Dataset Creation: Sun Mar 01 23:04:51 2015 Charted by: Depth in Feet scaled 1:240

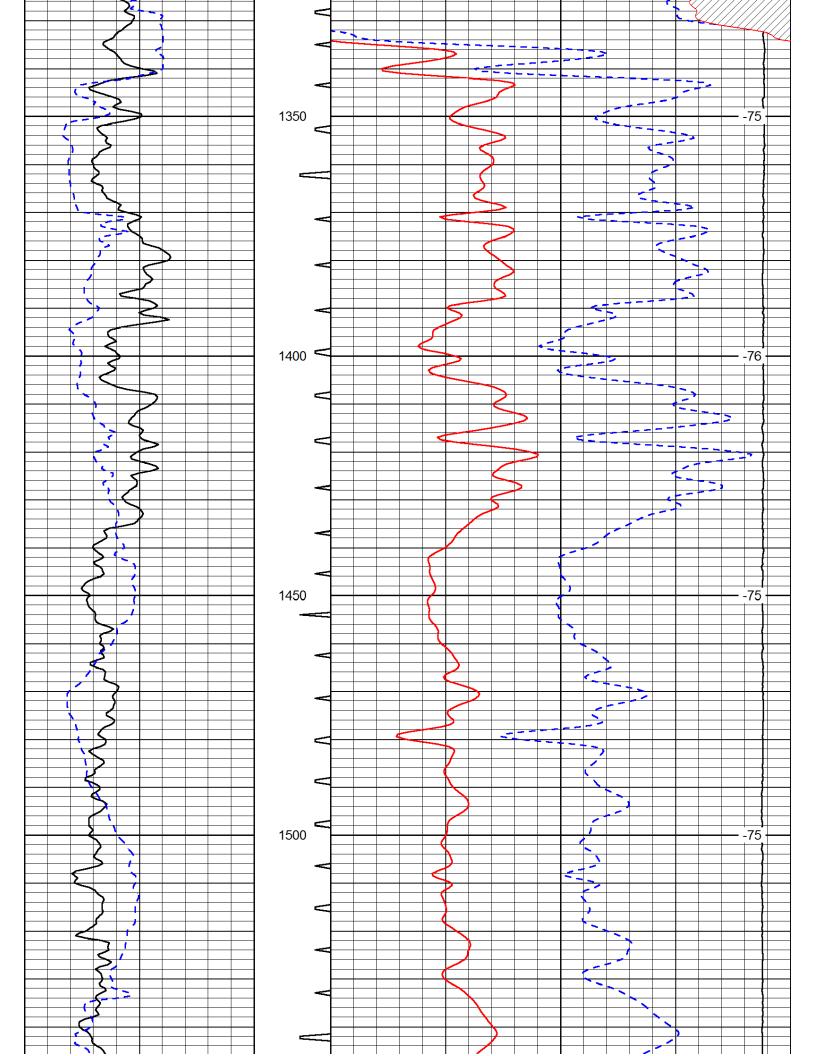


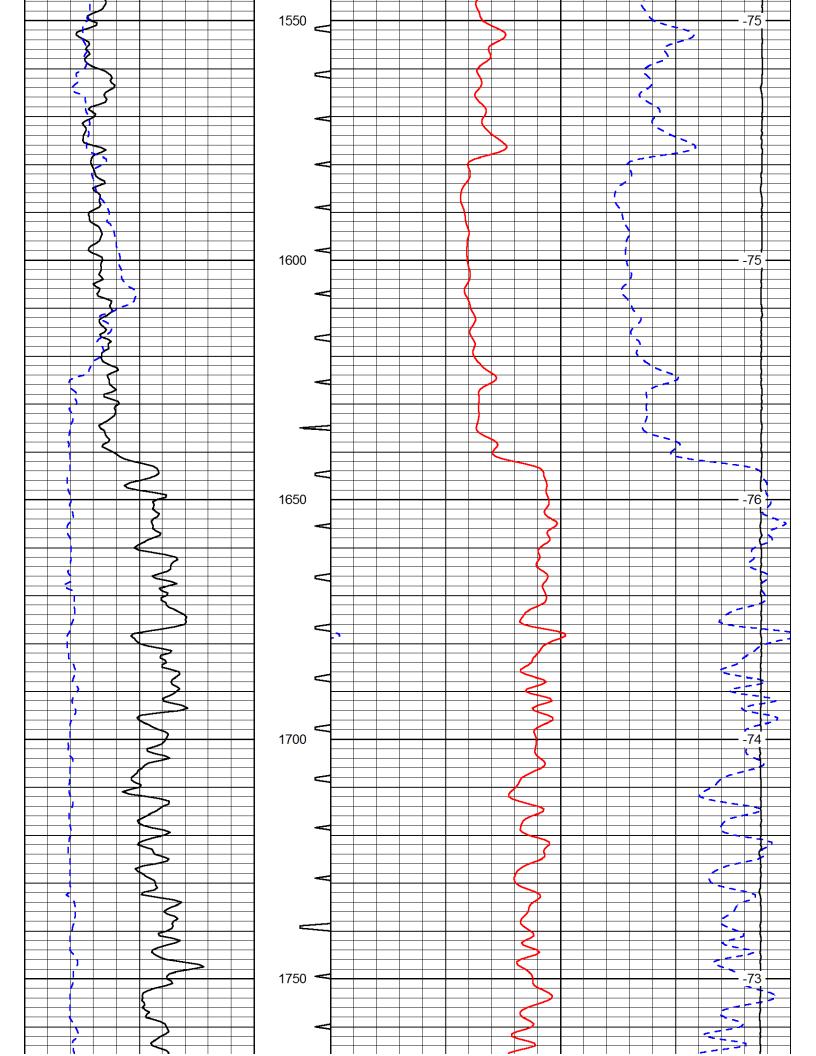


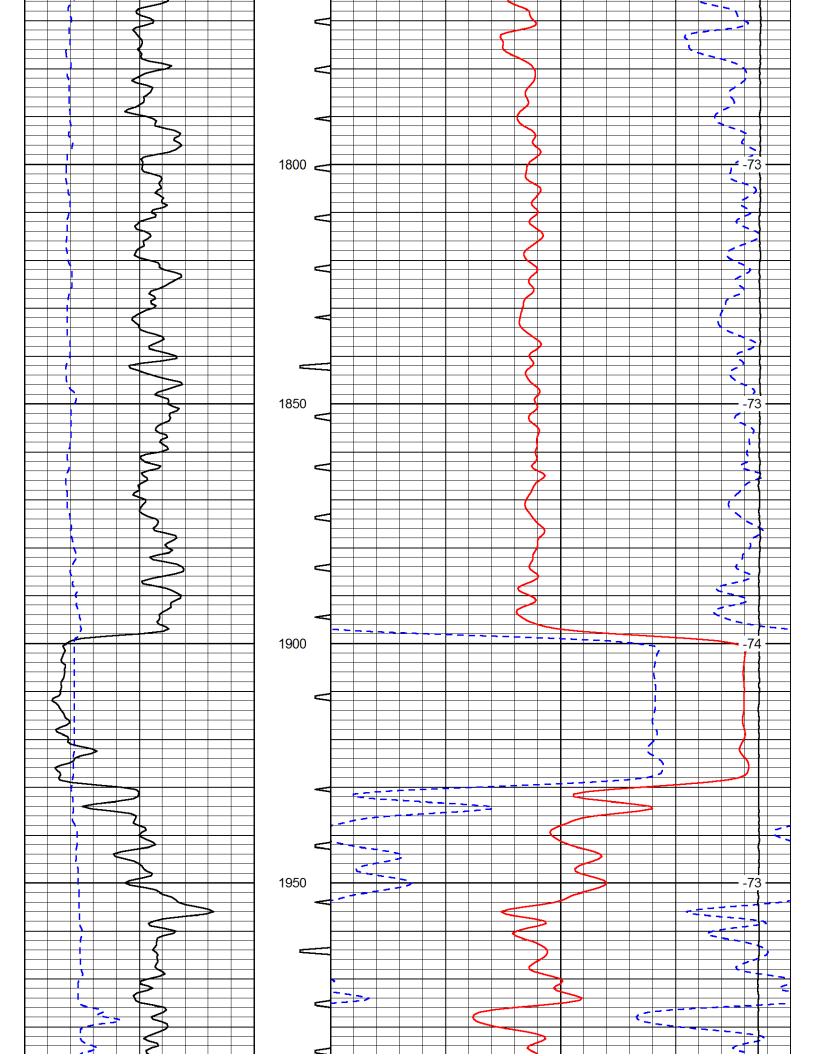


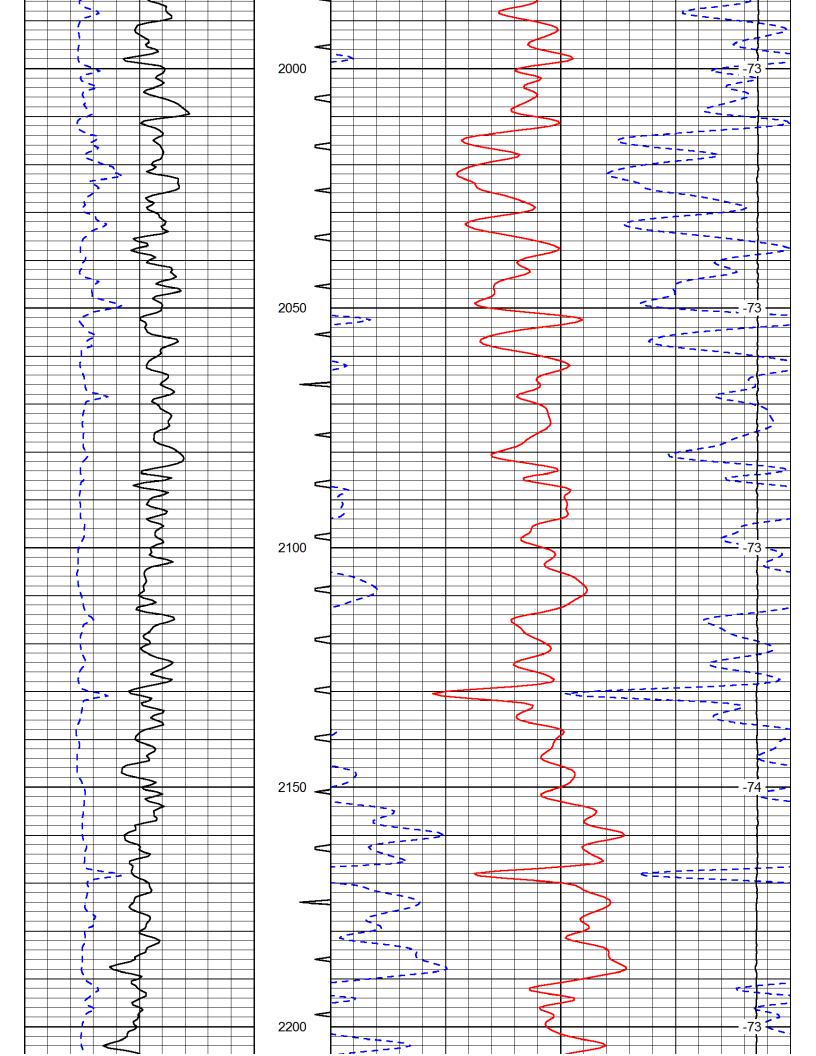


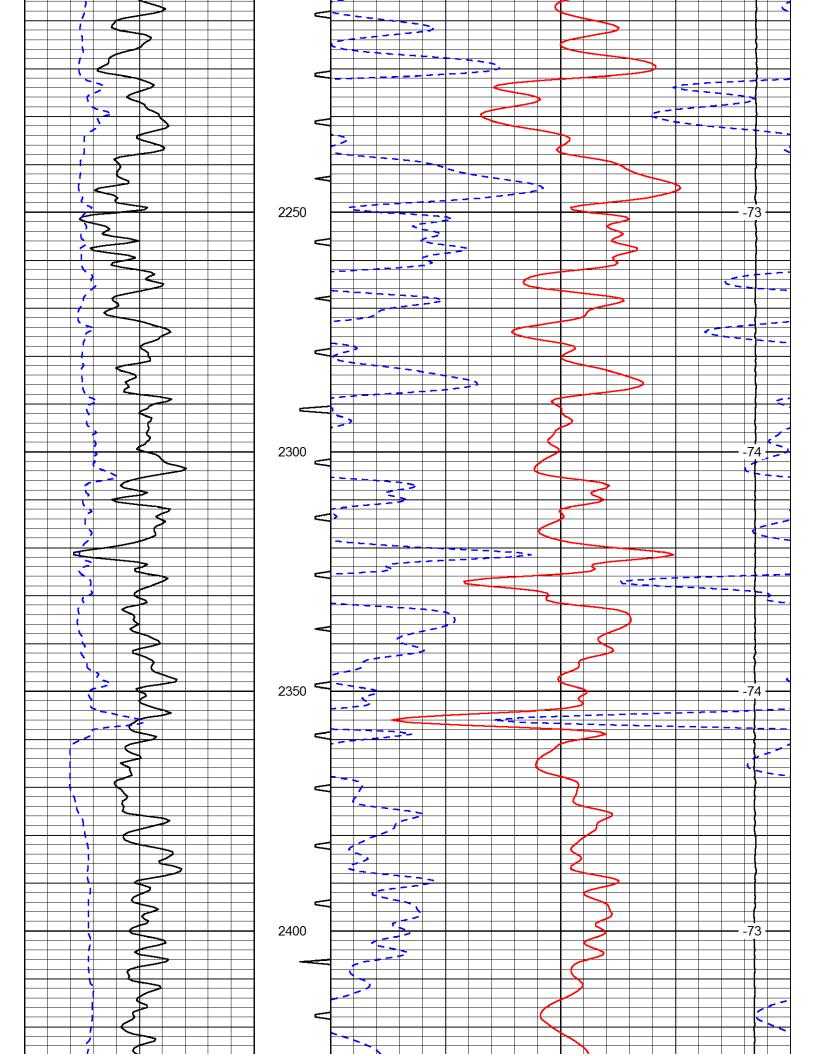


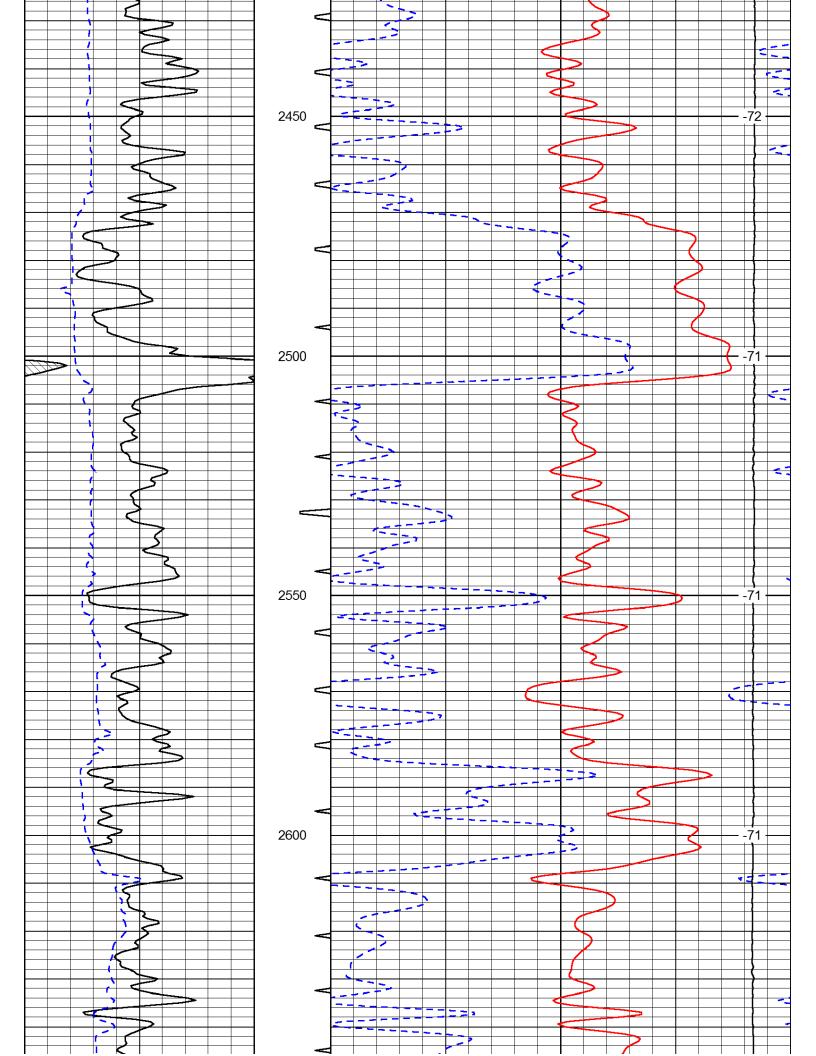


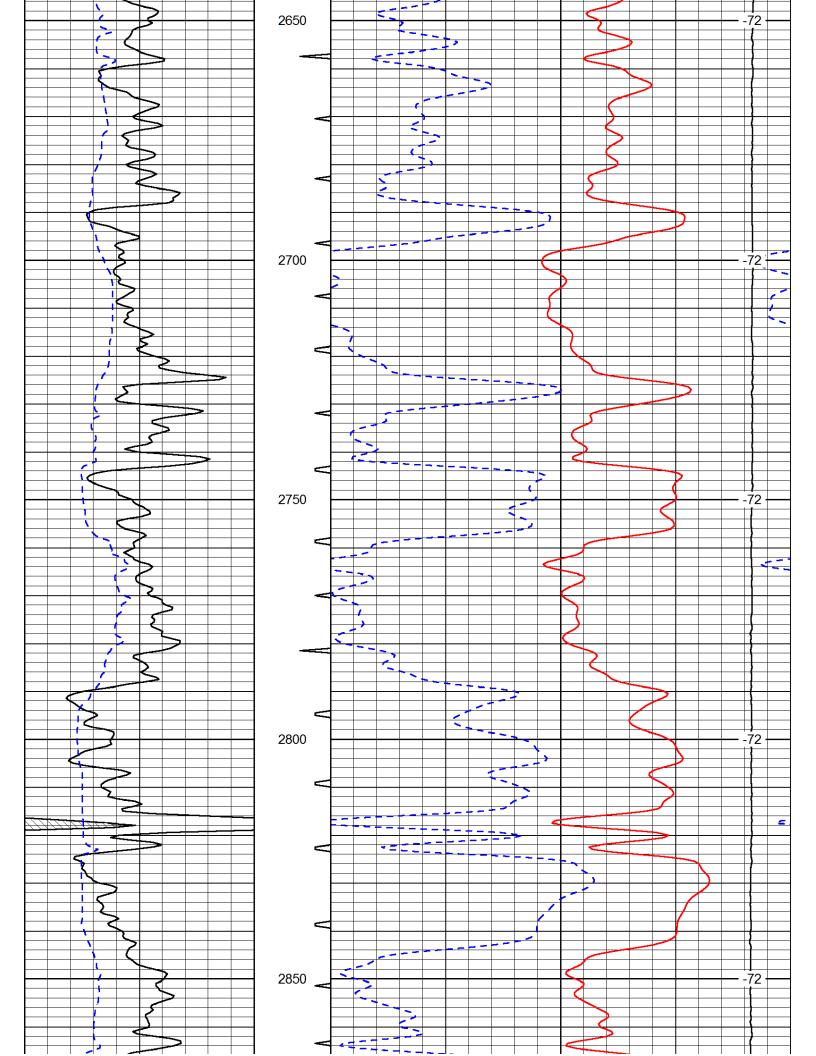


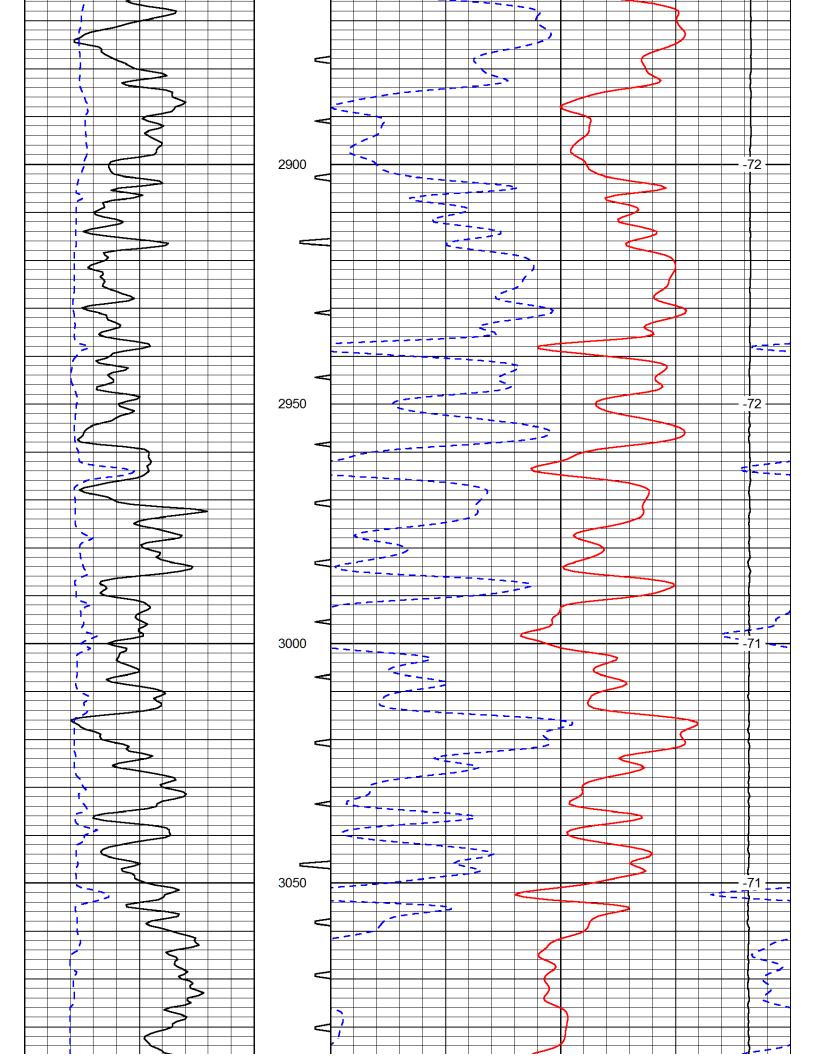


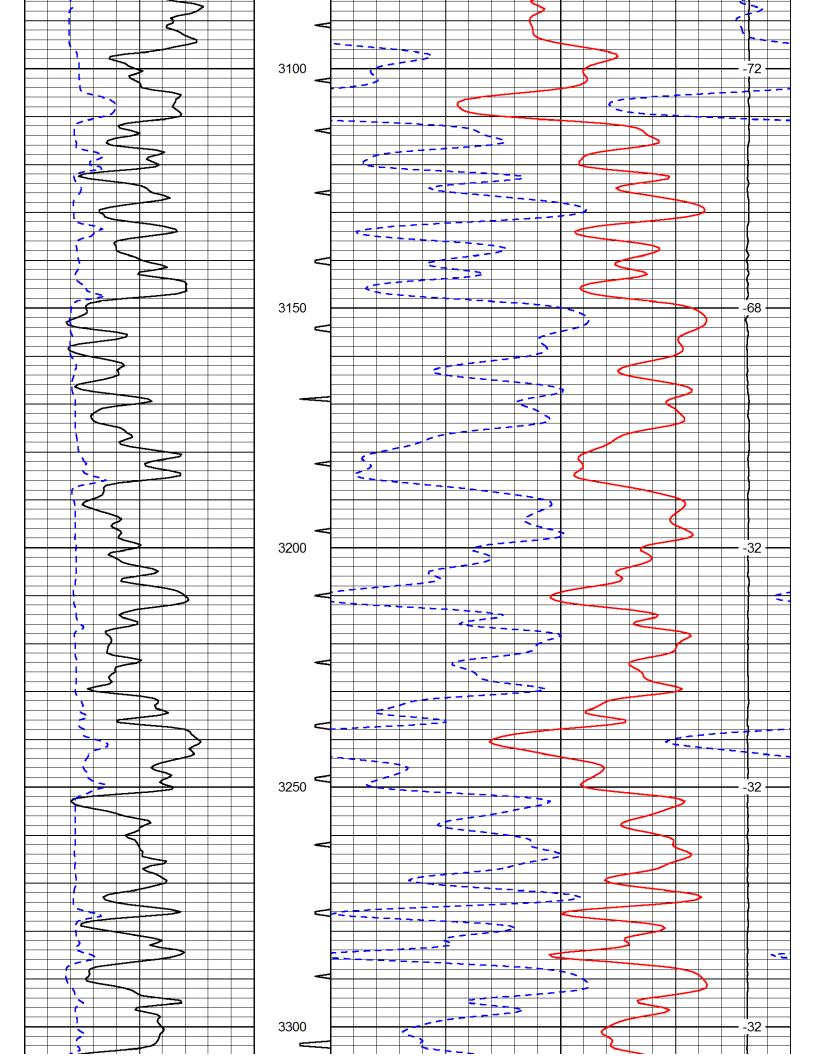


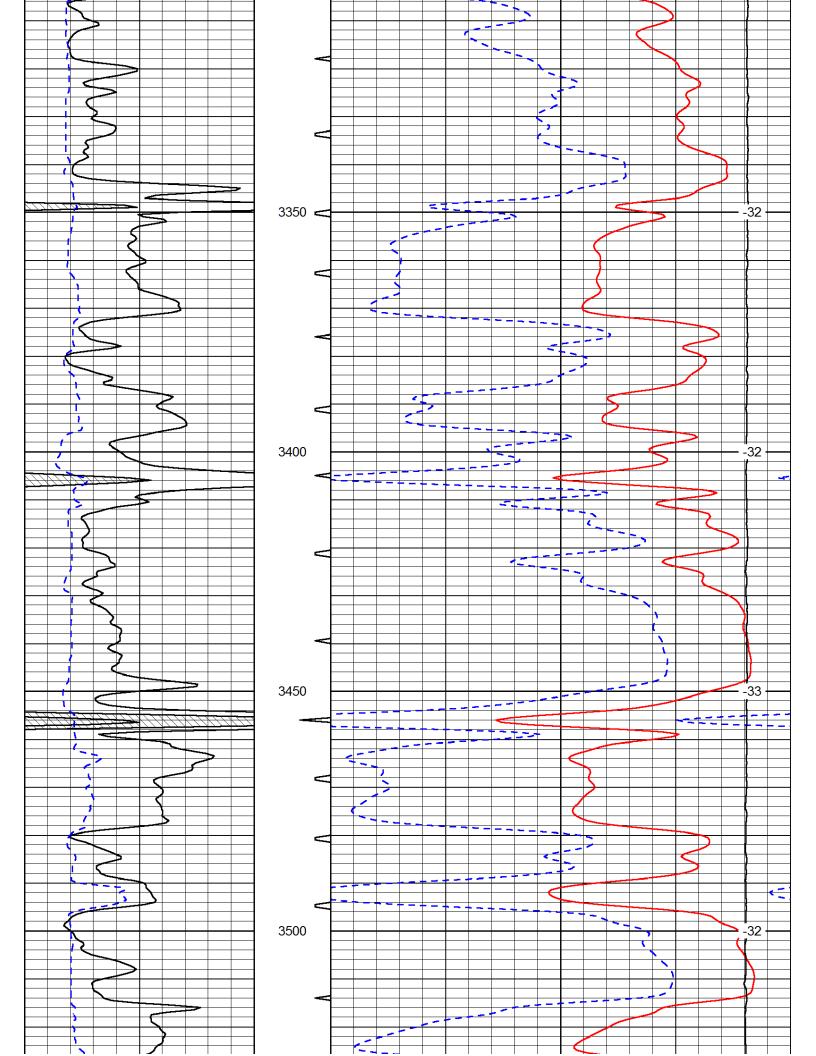


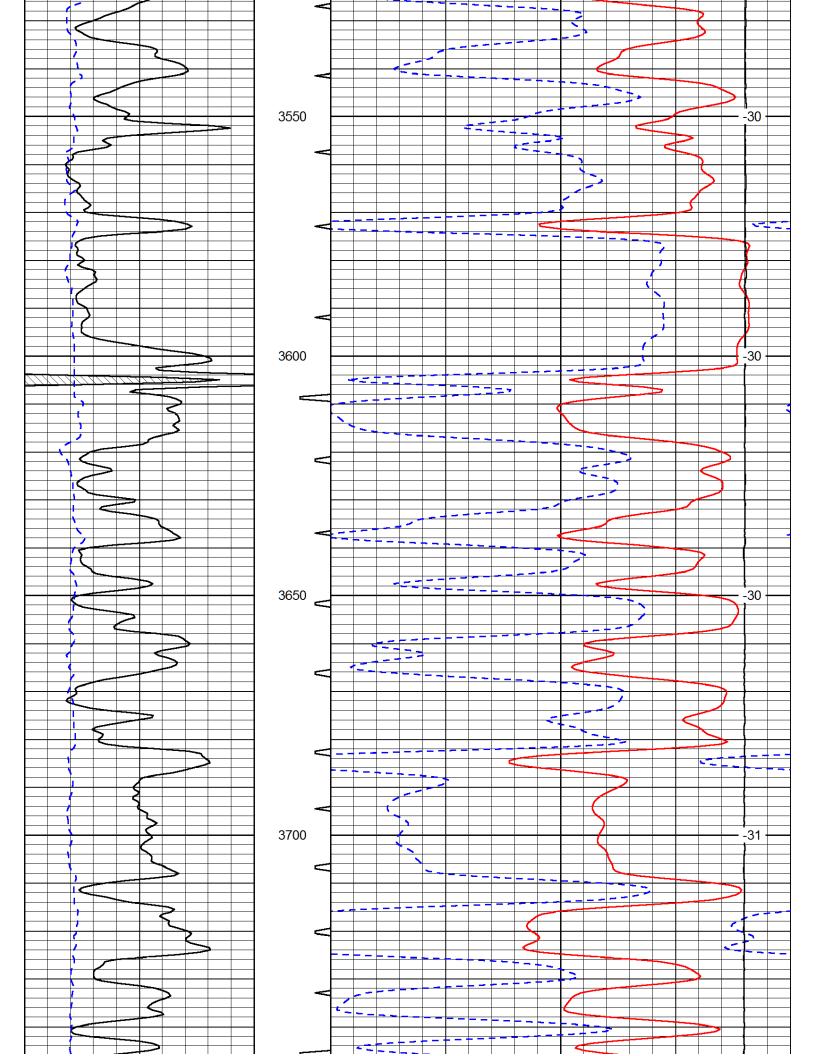


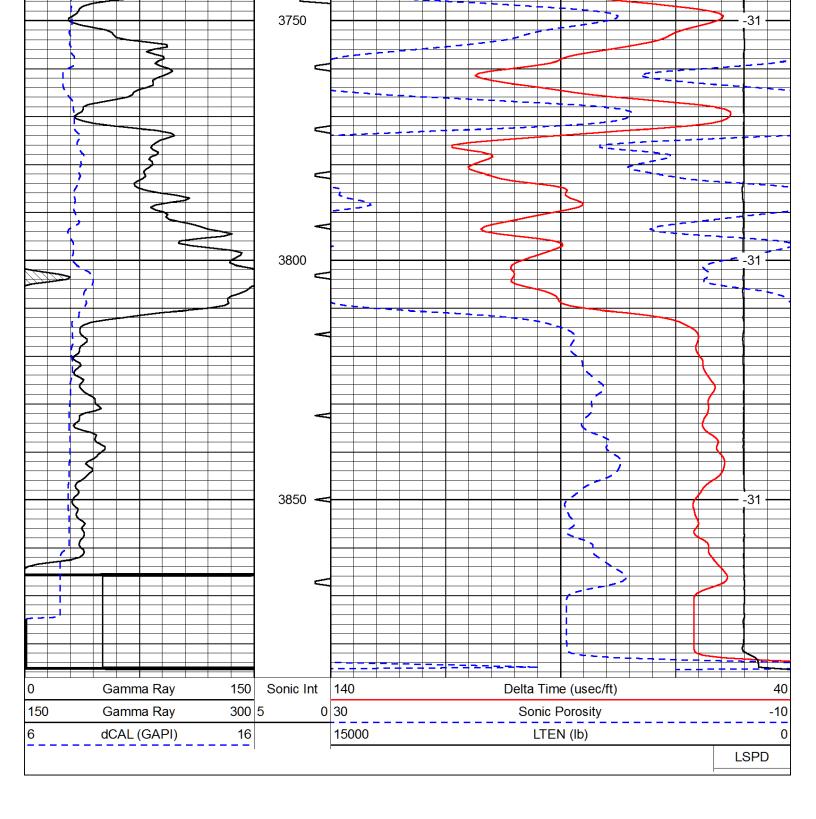














15-065-24,098-00-00

Location

2,160' FNL & 440' FEI

API No.

Company

Field ⊱ ell

Davis No. 4

County

Red Sun Graham

State

Other Services
DIL/CNL/CDL BHCS/MEL

Ainsworth Operating Company

Computer Processed Interpretation

<<< Fold Here >>>

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Permanent Datum Ground Level Log Measured From Kelly Bushing Drilling Measured Fronkelly Bushing

6

Ft. Above Perm. Datum

Elevation 2245

Sec:

ω

Twp:

S S

Rge:

22W

Elevation 2255

Comments

Thank you for using Pioneer Energy Services 785.625.3858

Hill City, 8 North to Y Road, 4 East to 310 Road, 1 North to Z Road, 1/2 East, South Into

Database File: c:\warrior\data\cross plots\3wxplt.db

BVW

BVWSXO

Caliper

Bulk Volume Water In Flushed Zone

Bulk Volume Water

Density - Neutron Crossplot Shale Corrected

Payflag DGA SPC DCAL

If: PHIE>

2, VCL<

6

, SPC>

10

SW<

50 & DCAL<

Apparent Grain Density SP Corrected For Baseline

Analysis By

Witnessed By Recorded By

Randy Kilian

Martin

J. Long

\CL

Volume Of Clay

Water Saturation In The Flushed Zone

Water Saturation

Curve Definitions

WS

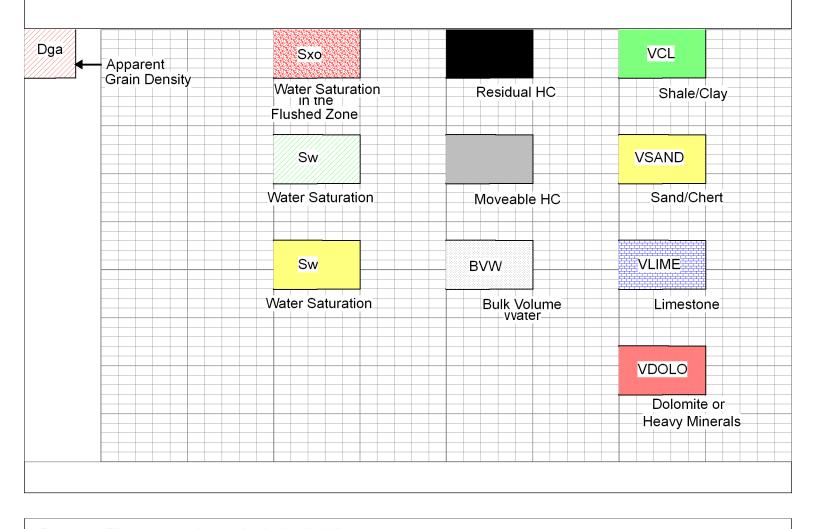
Depth Logger Date Recorded

3882

3/2/2015

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Dataset Creation: Wed May 14 10:04:54 1997 Charted by: Depth in Feet scaled 1:240

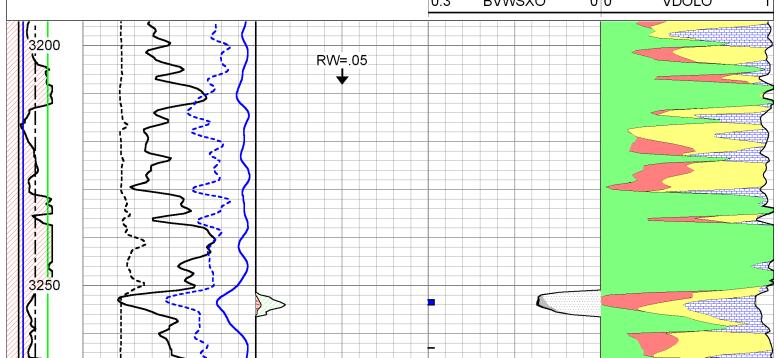


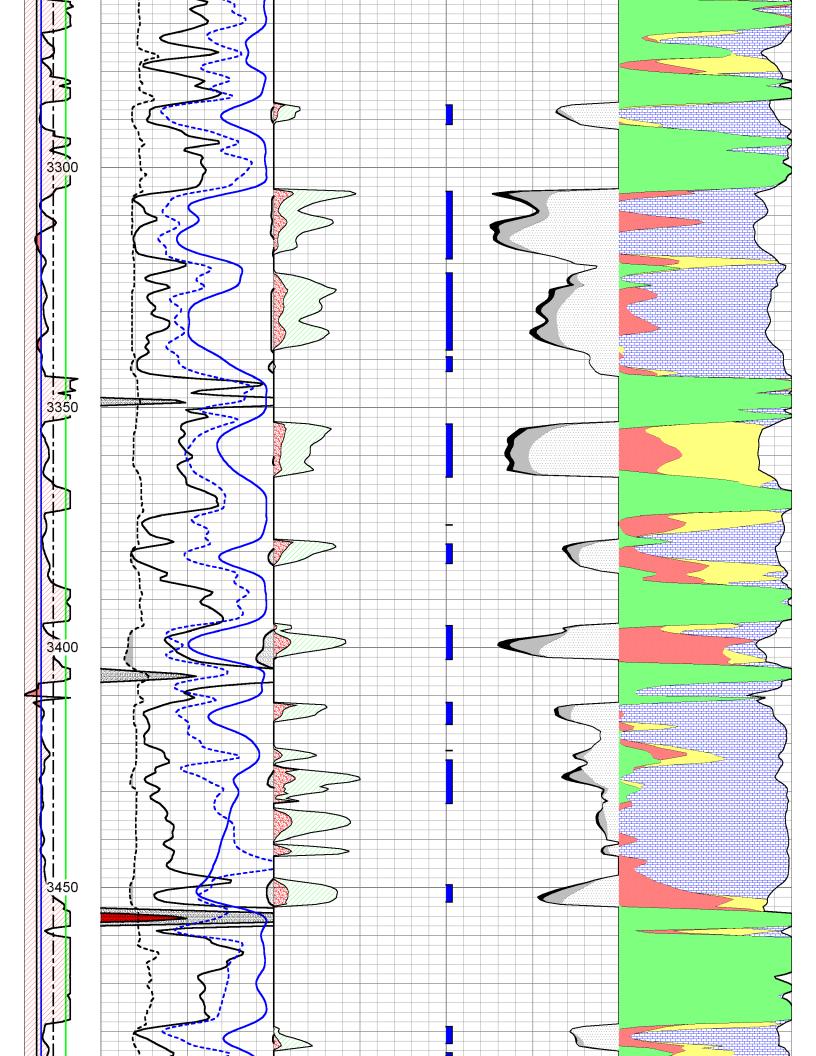
ainsworth_davis_4hd.db dil/ainscpi Database File:

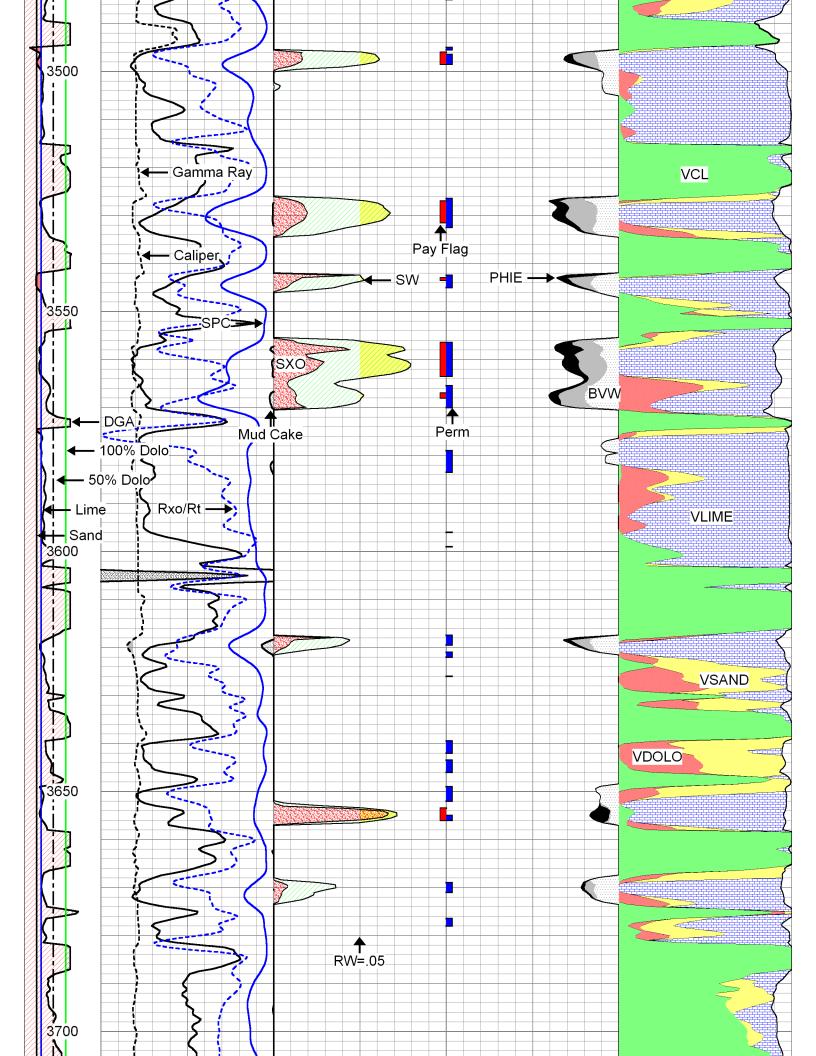
Dataset Pathname: Presentation Format: aalitho

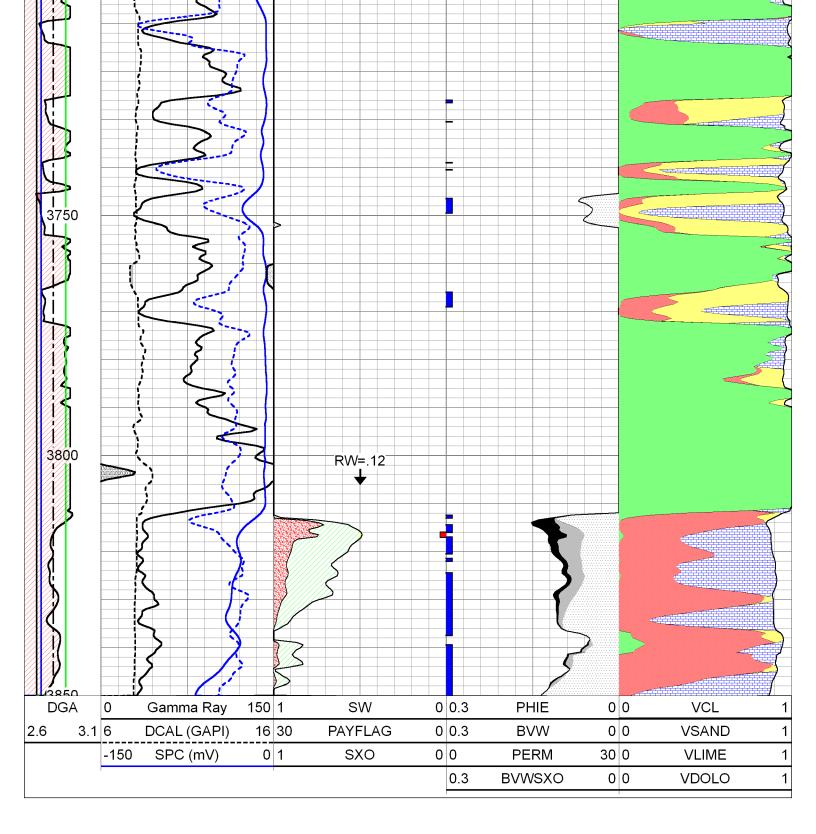
Dataset Creation: Mon Mar 02 01:31:38 2015 Charted by: Depth in Feet scaled 1:240

	Commo Boy	150	1 SW	^	0.3	PHIE	0	Λ	VCL	4
DGA 0	Gamma Ray	150	500	U	0.3	PHIE	- 0	U	VCL	
2.6 3.1 6	DCAL (GAPI)	16	30 PAYFLAG	0	0.3	BVW	0	0	VSAND	1
-150	SPC (mV)	0	1 SXO	0	0	PERM	30	0	VLIME	1
					0.3	BVWSXO	0	0	VDOLO	1









QUALITY OILWELL CEMENTING, INC. Federal Tax 1.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 1136

Cell 785-324-1041	- 1970 -	1 -		State	On Location	Finish
Sec.	Twp. Range		ounty	X		1100 PM
Date 3-2-15 34	6 08	1	Ham	Ju Ka o D	to YRd, SE +	310 RA IN
Marie T	Davis	Locatio	on Hell Co	1-1/1-	3/Into	2
Lease	Well No.		Owner 10 Z	11 0	Ino	
Contractor Southward				والمسلمين والمسلم	ent cementing equipmer owner or contractor to d	it and furnish lo work as listed.
Type Job Top Stage	TD 3881'		Charge 1	insworth	operation	
Hole Size	20011		To 19	111000.117	7 - 11	
Csg. 50" 14# New	Depth 3841		Street	gradient Control	State	
Tbg. Size	Depth 1991		City	and done to eatisfacti	on and supervision of owner	er agent or contractor.
Tool DU lool	Depth 18931	-		nount Ordered	SD 60/20	ambe 1/4#
Cement Left in Csg.	Shoe Joint	315	Flo sent	ount ordered by		
Meas Line EQUIPI			Common	2011 7	350	
No. Cementer	VO.V O° V		Poz. Mix	70		
Pumptrk D Helper	TICE KICK		Gel.			
Bulktrk 2) No. Driver	Ser					
Bulktrk Driver	INIO		Calcium Hulls			
JOB SERVICES	3 & HEMARKS		Salt			
Remarks:			Flowseal	87H		
Rat Hole	<u> </u>	<u> </u>	Kol-Seal	0 1 51		
Mouse Hole			Mud CLR	10		
Centralizers				r CD110 CAF 38		
Baskets	15.0.2		1,11	CDTIG CAL GO		:
6/Vor Port Collar #45	2 1893	() e	Sand	772		
Pipe on bottom		<u>wlatibe</u>		330		
plug Rathole W130		varop	Mileage	FLOAT EQ	LUPMENT	
W/150x Hook 1	10 Casing FM	***			O	:
30'5 Sx ('ementi.	Shut down	<u> wash</u>	7A 1 *******	,		
Pump + lines Keleas	red plug + D	<u>gzbjar</u> e	4 .	ar		
W146 BLS of G	xter.	الدوري	Baskets			
Keleased r held	off Discorns	30 A	AFU Inse			
Land plug to	<i>j50</i> 2 井		Float Sho			
	1 100		Latch Dov	-		
Conem	b did					TOP
	11040				1 Chair	2 Stage
	a rare		Pumptrk	Charge DV6	<u>d 3111774</u>	2 3/ 5/
	section of the sectio		Mileage	NICI		Tax
	e Martin de la companya de la compa		1 L		Disco	
					Total Cha	
Signature And Warneling	government of the second				. ¡ (Otal Offa	.9.

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

No. 1092

705 483-2025	Home Office P.O. Box	32 Russell, KS 67003	
Phone 785-483-2025 Cell 785-324-1041			On Location Finish
Sec.	IWD. I many	ounty	1230 AM
	6 22 GR	HAMA KANSAS	1 1/2 1
Date 2 - 25 - 15 34	Location	Hill City BN	HE IN BE
	4	Owner /	
Lease Jayis	Well No.	T- Quality Oilwell Cementing, Inc.	enting equipment and furnish
Contractor SOUTHWIND	DALB RIGHT	cementer and neiper to assist our re-	
Type Job Surface		Charge A NIS WORTH	OPERATING CO
Hole Size 12 4	T.D. 270.	, .	
0.56	Depth 270	Street	tate
<u> </u>	Depth	The above was done to satisfaction and s	upervision of owner agent or contractor.
TBG. 0129	Depth	The above was done to satisfaction and s	80/20
Tool		Cement Amount Ordered 180	2 Geh
Cement Left in Csg. 26	1/4 8 3	3%cc 2	10 Gre =
Meas Line EQUIP	Displace	Common /45	
Comonter	GRENN G	Poz. Mix 35	
Helper	DOUG It.	Gel. 3	
Bulktrk 15 No. Driver		177	
No. Driver		Calcium /	
JOB SERVICES	S & REMARKS	Hulls	
		Salt	
Remarks:		Flowseal	
Rat Hole		Kol-Seal	
Mouse Hole		Mud CLR 48	
Centralizers		CFL-117 or CD110 CAF 38	
Baskets		Sand	
D/V or Port Collar	- // // // // // // // // // // // // //	Handling 190	
Set@ 270		Mileage FLOAT EQUIPM	ENT
_80			1
		Guide Shoe	
		Centralizer	
- N	DID CIRCULATE	Baskets	
(ement	DID COTROLL	AFU Inserts	- 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4
		Float Shoe	
		Latch Down	

	150		
	ANK	Bumptrk Charge Sur face	
		Furipar Company	
——————————————————————————————————————		Mileage 45	Tax
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	grand of the first of the second of the seco	Discount
	1.		Total Charge
	Motor -		Total Orlango
X Signature			and the second s

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665

No. 1135

OCI 703-324-1041						
3-2-15 Sec.	Twp. Range	County	State		On Location	Finish 11015 AM
Date 0 & 10 51		ation Hill (177 K2	Nto	YRL, SE	40 310 RA
Lease Davis	Well No. 4	Owner 1	1 201	3/48	opries 5	
Contractor Southwind	TVVEITNO.	To Quality C	Dilwell Cementi eby requested	to rent cen	nenting equipme	nt and furnish
Type Job Bottom stage		cementer ar	nd helper to as	sist owner	or contractor to	do work as listed.
Hole Size 77/8"	T.D. 3881'	Charge H	ins ward	h op	erating	
Csg. 55" New 14#	Depth 38811	Street		<u> </u>	V	
Tbg. Size	Depth	City			State	
Tool DU Tool	Depth 18931					er agent or contractor.
Cement Left in Csg. 201	Shoe Joint 20		ount Ordered	- 100	om 10% 50	
Meas Line	Displace	1 200 C	del mmg	Clear	10 BLS	KCL
EQUIP	MENT	Common	150	<u>.</u>		
Pumptrk 20 No. Cementer N	ick Rick	Poz. Mix	,			
Bulktrk No. Driver Driver	M	Gel. 3				
Bulktrk 21 No. Driver Julo	<i>t</i>	Calcium		· · · · · ·		
JOB SERVICES	& REMARKS	times A	CH Q	USQ .	1 gol	
Remarks:		Salt /_	3	Y 11 1		
Rat Hole		Flowseal				
Mouse Hole		Kol-Seal				
Centralizers 55 368 10	44 63	Mud CLR 4	8 <i>500</i>	gol		
Baskets / // 45 64	Turk see	CFL-117 or	CD110 CAF 3	80		Bernell Land
DN or Port Collar #45 2	D 1893'	Sand				
DiDe on bottom b	real Circulation	Handling /	66			
Dump Soo on My	d Clear playing 10	Mileage				
BUS OF KCL FEET	FRATRON WHOO			QUIPMEN		<u> </u>
phase marchele at	Hook to SB	* Guide Shoo	DO Too	ot wal	latch down	1
Cashar + mix 15	6 SX Cement. Shu	Centralizer	<u> </u>			
door burash pump	4 lines Released	Baskets	4			
plus & Displaced	with 94 BLS	AFU Inserts	s			
1 048 mx465 A	6 mud	Float Shoe				
Keleased 4 held.	Lift bussing Hil	Latch Dowr	<u> </u>	۸		
600 # Land plu	ng to 1600 #	Kotat:	ve bear	<u>l</u>	5000 Date	
Drop Dart want	+ 10 mins		J		-1	Botton
open tool w/	800 \$	Pumptrk Cl	harge No	L 5701	ng I	Stage
Break Circul	ation	Mileage 4	15 /		<i></i>	
	• • • • • • • • • • • • • • • • • • •				та 	
<u> </u>					Discoul	
Signature Ann Wenty	Programme Burner a				Total Charg	e [

2015.02.28



DRILL STEM TEST REPORT

Prepared For:

Ainsworth Operating Co

4676 Commercail ST.SE 412 Salem OR 97302

ATTN: Al Ainsworth

Davis #4

34 6s-22w Graham,KS

Start Date: 2015.02.28 @ 12:55:50

End Date:

2015.02.28 @ 21:10:44

Job Ticket #: 61147

DST#: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Ainsworth Operating Co

34 6s-22w Graham,KS

4676 Commercail ST.SE 412 Salem OR 97302

Davis #4

Job Ticket: 61147

DST#: 1

ATTN: Al Ainsworth

Test Start: 2015.02.28 @ 12:55:50

GENERAL INFORMATION:

Formation:

LKC "A"

Deviated:

Whipstock: No

ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Ray Schwager

Unit No:

Reference Elevations:

2255.00 ft (KB)

2248.00 ft (CF)

KB to GR/CF:

7.00 ft

Interval:

3489.00 ft (KB) To 3515.00 ft (KB) (TVD)

Total Depth:

Time Tool Opened: 14:45:15

Time Test Ended: 21:10:44

3515.00 ft (KB) (TVD)

Hole Diameter:

Press@RunDepth:

7.88 inches Hole Condition: Fair

Serial #: 8018

Inside

395.17 psig @ 2015.02.28

3490.00 ft (KB) End Date:

2015.02.28

Capacity: Last Calib.: 8000.00 psig

2015.02.28

Start Date: Start Time:

12:55:50

End Time:

21:10:44

Time On Btm:

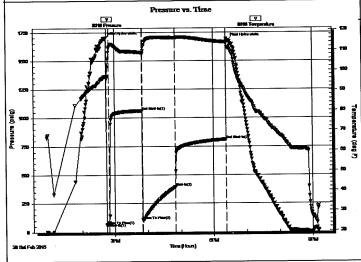
2015.02.28 @ 14:42:15

Time Off Btm:

2015.02.28 @ 18:25:44

TEST COMMENT: 5-IFP-strg bi in 3 min

60-ISIP-1 1/2" bl bk 60-FFP-strg bl thru-out 90-FSIP-1/2" bl bk



PRESSURE SUMMARY

1	PRESSURE SUIVIIVIANT						
1	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	1691.26	96.86	Initial Hydro-static			
Ì	3	61.03	95.91	Open To Flow (1)			
	8	81.05	111.28	Shut-In(1)			
	68	1062.56	108.85	End Shut-In(1)			
	69	105.93	108.16	Open To Flow (2)			
	128	395.17	116.15	Shut-In(2)			
	220	807.52	113.92	End Shut-In(2)			
	224	1674.97	111.01	Final Hydro-static			
				·			
					, .		
					•		
		1	1				

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1220 GIP	0.00
1015.00	clean oil	14.24
60.00	GMO 20%G10%M70%O	0.84

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 61147



Ainsworth Operating Co

34 6s-22w Graham, KS

4676 Commercail ST.SE 412 Salem OR 97302

Davis #4

Job Ticket: 61147

DST#: 1

ATTN: Al Ainsworth Test Start: 2015.02.28 @ 12:55:50

GENERAL INFORMATION:

Time Tool Opened: 14:45:15

Time Test Ended: 21:10:44

Formation:

LKC "A"

Deviated:

Interval:

Total Depth:

No Whipstock: ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Ray Schwager

Unit No:

Reference Elevations:

2255.00 ft (KB)

2248.00 ft (CF)

Hole Diameter:

3515.00 ft (KB) (TVD)

Outside

7.88 inches Hole Condition: Fair

3489.00 ft (KB) To 3515.00 ft (KB) (TVD)

KB to GR/CF:

7.00 ft

Serial #: 8700

Press@RunDepth:

psig @

3490.00 ft (KB)

2015.02.28

Capacity: Last Calib.: 8000.00 psig

Start Date:

2015.02.28

End Date:

21:10:19

Time On Btm:

2015.02.28

Start Time:

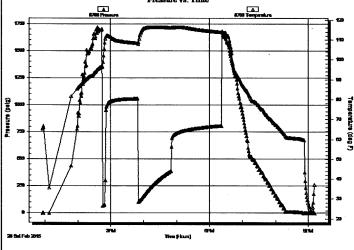
12:55:40

End Time:

Time Off Btm:

TEST COMMENT: 5-IFP-strg bl in 3 min

60-ISIP-1 1/2" bl bk 60-FFP-strg bl thru-out 90-FSIP-1/2" bl bk



PRESSURE SUMMARY							
Time	Pressure	Temp	Annotation				
(Min.)	(psig)	(deg F)					
•							
	Time (Min.)	Time Pressure	Time Pressure Temp				

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1220 GIP	0.00
1015.00	clean oil	14.24
60.00	GMO 20%G10%M70%O	· · · · · · · · · · · · · · · · · · ·
10000		

Gas R	ates
-------	------

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

Trilobite Testing, Inc

Ref. No: 61147



Total Volume:

TOOL DIAGRAM

Ainsworth Operating Co

34 6s-22w Graham, KS

4676 Commercail ST.SE 412 Salem OR 97302

Davis #4

Job Ticket: 61147

DST#: 1

ATTN: Al Ainsworth

Test Start: 2015.02.28 @ 12:55:50

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length: 3495.00 ft Diameter: Length:

0.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

49.03 bbl 0.00 bbl 0.00 bbl

49.03 bbl

Tool Weight:

2200.00 lb Weight set on Packer: 25000.00 lb

Tool Chased

Weight to Pull Loose: 50000.00 lb 0.00 ft

String Weight: Initial

30000.00 lb

Final 34000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

Interval between Packers:

30.00 ft 3489.00 ft Depth to Bottom Packer:

ft

26.00 ft

50.00 ft Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3466.00		
Shut In Tool	5.00			3471.00		
Hydraulic tool	5.00			3476.00		
Safety Joint	3.00			3479.00		
Packer	5.00			3484.00	24.00	Bottom Of Top Packer
Packer	5.00			3489.00		
Stubb	1.00			3490.00		
Recorder	0.00	8018	Inside	3490.00		
Recorder	0.00	8700	Outside	3490.00		
Perforations	22.00			3512.00		
Bullnose	3.00			3515.00	26.00	Bottom Packers & Anchor

Total Tool Length:

50.00

Trilobite Testing, Inc

Ref. No: 61147



FLUID SUMMARY

32 deg API

ppm

Ainsworth Operating Co

34 6s-22w Graham,KS

4676 Commercail ST.SE 412 Salem OR 97302

Davis #4

Job Ticket: 61147

DST#: 1

ATTN: Al Ainsworth

Test Start: 2015.02.28 @ 12:55:50

Oil API:

Water Salinity:

Printed: 2015.03.02 @ 09:44:11

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

Viscosity: Water Loss:

Resistivity: Salinity:

Filter Cake:

ohm.m 250.00 ppm 1.00 inches

9.00 lb/gal

54.00 sec/qt 8.35 in³

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

psig

ft

bbl

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1220 GIP	0.000
1015.00	clean oil	14.238
60.00	GMO 20%G10%M70%O	0.842

Total Length:

1075.00 ft

Total Volume:

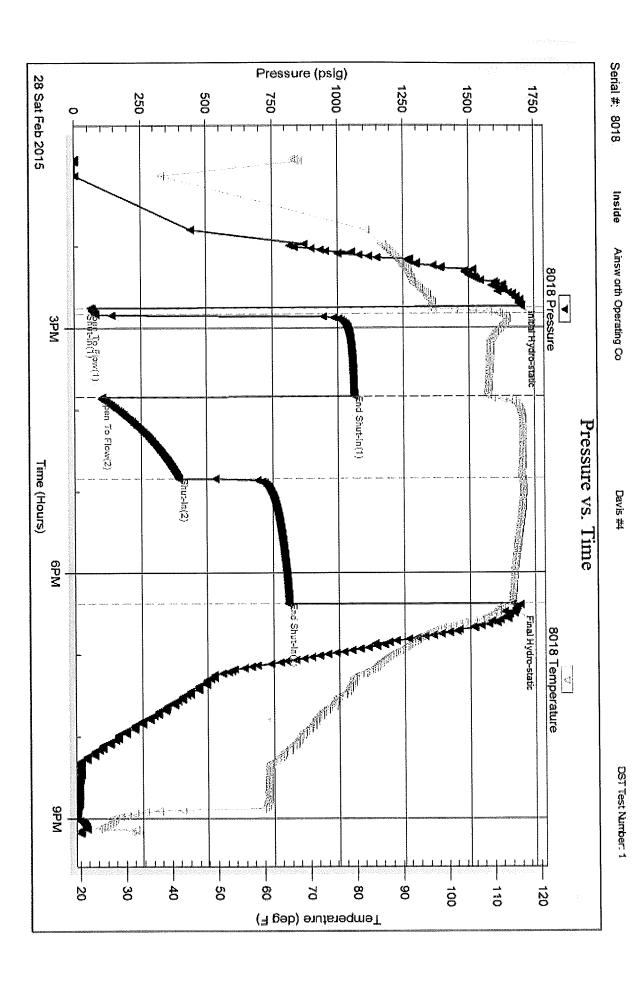
15.080 bbl

Num Fluid Samples: 0

Laboratory Name:

Num Gas Bombs: Laboratory Location: Serial #:

Recovery Comments:



Trilobite Testing, Inc

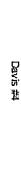
Ref. No:

61147



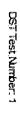


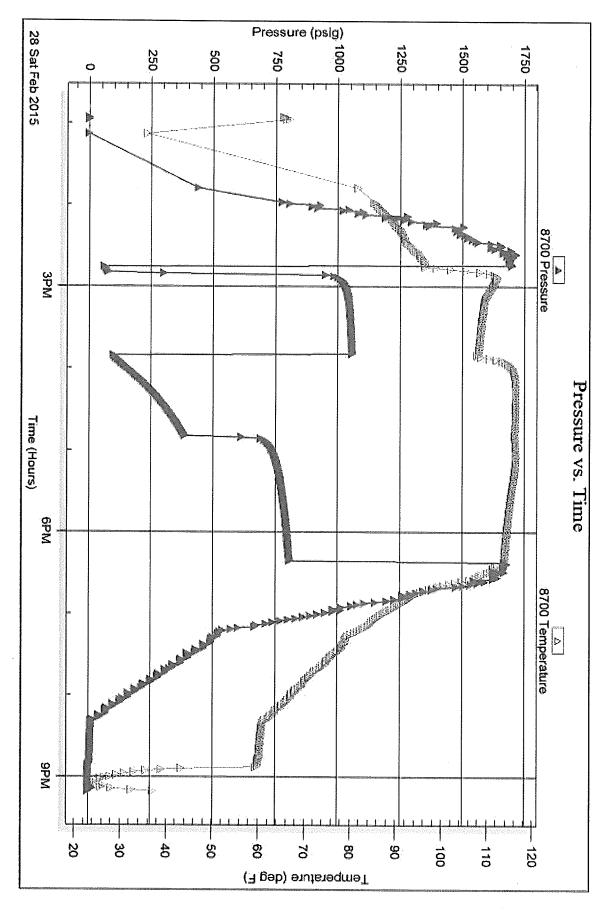
Printed: 2015.03.02 @ 09:44:11



Serial #: 8700

Outside Ainsworth Operating Co







RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61147

			······································		
Well Name & No		Test No.	M. Milde	Date <u> </u>	8-15
Company AINSWORTH OPERATO	19 Co	Elevation	2255	KB 225	1 <u>6</u> GL
Address 4676 Commercial:	ST SE412	Salom, C	DR. 92	302	
Co. Rep/Geo. RANdy Killian	, as	Rig	uThwa	drigh	<u>, </u>
Location: Sec. 34 Twp. 65	Rge. 22	_co. <u>6 R</u> x	sham_	State 🖳	<u></u>
Interval Tested 3489 - 3515	Zone Tested	IKC A"			
Anchor Length 26	Drill Pipe Run	3495		Mud Wt. 9,	
Top Packer Depth 3484	Drill Collars Run	participation and a	and the second s	Vis54	
Bottom Packer Depth 3489	Wt. Pipe Run		***************************************	WL 8.9	7
Total Depth 35/5	Chlorides	<u>250 pr</u>	om System	LCM	土
Blow Description IFP - STRONG	Blow IN 3	m_1N	2013年2013年1日 (2013年1日20日) 11日 - 1	The state of the s	
TSTP-1/2"8%	w BACK	the state of the s			
FFP-STRONG	Blow Theu.	-ow	endocipas mas more, viinamade inter basicaliana basicalian		
FSTP - 1/2" 13/2	W BOCK			· · · · · · · · · · · · · · · · · · ·	
Rec 1220 Feet of GIP		%gas	%oil	%water	%mud
Rec /D/S Feet of LD		%gas	%oil	%water	%mud
Rec Feet of		20%gas	70 %il	%water	/O%mud
RecFoet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total	Gravity 32	API RW	°I	Chlorides	ppm
(A) Initial Hydrostatic /69	Test 1050		T-On L	ocation <u>1130</u>	<i>.</i>
(B) First Initial Flow	☐ Jars		T-Start	ed 1255	
(C) First Final Flow	Safety Joint 75		T-Opor	1000	The state of the s
(D) Initial Shut-In	☐ Circ Sub	nd prophysical medicine according to control in the first of a section in the first of the first	T-Pulle	4 1 1 -	
(E) Second Initial Flow	☐ Hourly Standby _		T-Out		
(F) Second Final Flow 395	Mileage 150	ST 135	Comm	ents	, , , , , , , , , , , , , , , , , , ,
(G) Final Shut-In 80	☐ Sampler		No	y po 1	
(H) Final Hydrostatic 674	☐ Straddle		(1) Ru	ined Shale Packer_	
	☐ Shale Packer			ined Packer	
Initial Open	☐ Extra Packer			tra Copies	
Initial Shut-In	☐ Extra Recorder _		_ •	<u> </u>	
Final Flow 60	☐ Day Standby			1260	
Final Shut-In 90	☐ Accessibility			ST Disc't	
	Sub Total 1260		/A		YKAAK
Approved By	Ou	r Representative_	KAY SU	WAGER	god