

Confidentiality Requested:

Yes No

#### Kansas Corporation Commission Oil & Gas Conservation Division

1248909

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:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long: _	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ <del>_</del>			Lease Name:	License #:_	
Spud Date or Date R	eached 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:

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)		





STAGE NO.

Date 11-17-	14	Rysse	//	F F F	-	CEMENT D			
Company Da	Distric	T V 33 E	100	cket No. 555		Spacer Typ		427-1 D	
11 00	man B	BWW	1 100	/ell No		Amt	Sks Yield	ft <sup>3</sup> /sk Density	PPG
County Bar	100	-		ate K)					
Location Sur	ank 26	V 23/4	N_Fi	eld		LEAD: Pum	p Time	hrs. Type ASC	5.6.11
- 610	10							Excess	
CASING DATA:						Amt. 26	Sks Yield	ft³/sk Density	PPG
-7	Surface			oduction Lin		TAIL: Pump	Time	hrs. Type Acad	37000
Size	Type	Wei	ght	Collar		9 /	ALCOHOL: A CONTRACT OF THE PARTY OF THE PART	Excess	
								ft <sup>3</sup> /sk Density	
						WATER: Le	ad gals/	sk Tail gals/sk Total	Bbls.
Casing Denths: T	ion		Rottom			Pump Truck	ka Hand 409.	Nathan D	
Casing Deptins.			_ Bottom			Bulk Equip.	136	teve 5	
						baik Equip.	378-		
							*		
Drill Pipe: Size _		Weight		Collars					
Open Hole: Size	978	T.D. <u>3</u>	7/3 ft. F	P.B. to	ft.	Float Equip	: Manufacturer WF		
CAPACITY FACTO						Shoe: Type	Float	Depth <u>3</u>	419
Casing:	Bbls/Lin. ft/_	0394	Lin. ft./B	bl	1	Float: Type		Depth	
Open Holes:	Bbls/Lin. ft		Lin. ft./B	bl		Centralizers	s: Quantity F	Plugs Top Btm	
Drill Pipe:	Bbls/Lin. ft		Lin. ft./B	bl		Stage Colla	rs WF	977	
Annulus:	Bbls/Lin. ft		Lin. ft./B	bl		Special Equ		1911	-
	Bbls/Lin. ft		and the property of the second	bl		Disp. Fluid	Type Luster	Amt. Bbls. Weight	8.37 PPG
Perforations: F	rom	ft. to		ft. Amt		Mud Type _	. 1	Weight _	PPG
COMPANY REPR	RESENTATIVE _	2/2	John .			CEMENT	ER MAL		
TIME	PRESSU			IID PUMPED I	2070	1	-/-		
	DRILL PIPE		TOTAL		RATE	-		REMARKS	
AM/PM	CASING	ANNULUS	FLUID	Pumped Per Time Period	Bbls Min.				4
						on	location	19 fty meeting	
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-						Cent	1-366,81	0 5/60	11
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10687	150		30						
	150		40						NAME OF THE PARTY
110 PM	200		50						
111 PM	200		60						
113 PM	500		70						
115/1	520		80	*					
116 84	400		90		-				
118 80	600		100						
120119	700		110						
172 119	750		120			-			
123 PM	710		130			1	1 .1.		
127 /	2100		133/4			1 de la	Pray )		
130 PM						- gle	a day		
1115 PM	400		2		11/2	000	1001		
200 PM		For the	- Contract		1 1000	ter	eus sieul	ation with rig	
							THE RESERVE	3	



### CEMENTING LOG

STAGE NO.

THANK YOU

Date 11-17	111	0	4	~~,	- 7 - 7	CEMENT DATA:
				icket No. 555		Spacer Type:
Company				ig		Amt Sks Yield ft <sup>3</sup> /sk Density PP
				Vell No		
				tate		
Location			Fi	ield		LEAD: Pump Time hrs. Type
CASING DATA	Conductor					Excess
CASING DATA:				_		Amt Sks Yield ft <sup>3</sup> /sk Density PP
	Surface	On CrossEdenta Distance				TAIL: Pump Time hrs. Type
Size	Type	Wei	ght	Collar		Excess
	-					Amt Sks Yield ft <sup>3</sup> /sk DensityPP(
						WATER: Lead gals/sk Tail gals/sk Total Bbl
Casing Depths: To			Pottom			Down Trools Hand
Casing Depths. In	ор		_ Bottom			Pump Trucks Used
						Bulk Equip.
				1/1		
Drill Pine: Size		Weight	Ži.	Collars		Walter & Children bereit
				P.B. to		Float Equip: Manufacturer
CAPACITY FACTO			16			Shoe: Type Depth
Casing:			Lin. ft /P	Bbl		Float: Type Depth
Open Holes:				Bbl.		Centralizers: Quantity Plugs Top Btm
Drill Pipe:				Bbl		Stage Collars
Annulus:				Bbl		Special Equip.
				lbl		Disp. Fluid Type Amt Bbls. Weight PPu
Perforations: F				ft. Amt		Mud Type Weight PPG
COMPANY REPR	RESENTATIVE	- 3 Ha	Bridgen .			CEMENTER
		And the second				
TIME	PRESSU	RES PSI		JID PUMPED I		REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
LOC PM			13			m. x 30 sks in l-1 hole
608BM			89			mix 705 sts down hele
						11/18650 1/4 -
						di alare
			10		7	
			70			
			30			
630PM	1300		38%			land elve
						11 has 2 (0-1)
						sumpost uster
						Hear down
						leave lecation
		•		4		
				4		
				*		
April 1						
ALCOHOLD STREET						

FINAL DISP. PRESS: \_

#### GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Oil & Gas Services, LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—TERMS: Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate. Any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including,

but not limited to, a reasonable sum as and for attorney's fees.

—PRICES AND TAXES: All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the

—DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED's current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—SERVICE CONDITIONS AND LIABILITIES:

- 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

  WARRANTIES:
- 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

- (A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
- (C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent, and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

## ALLIED IL & GAS SERVICES, LLC 055570

Federal Tax I.D.# 20-5975804

REMIT TO	P.O. BOX 31 RUSSELL, KANSAS 67665
	ROSSELL, KANSAS 07005

SERVICE POINT:

ROSS	LLL, IXA	N3A3 0700				Lusse 11	KJ
DATE //- 17-14	SEC.	TWP.	RANGE (3	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
HOSE OWWO	WELL#	6	LOCATION 54	sant 2 W	23/41	COUNTY	STATE
OLD OR NEW (Ci			E into			37.77.0	
		А					
CONTRACTOR	11 1	4 14		OWNER			
TYPE OF JOB HOLE SIZE	1- 600	T.D.	27/3	CEMENT			
CASING SIZE 7	?/	DEP	TH 3 4/9 5		RDERED 230	ASC 54	211.1
TUBING SIZE		DEP		205	ACON	11 d m J C	sefsk
DRILL PIPE		DEP	TH	30	450		
TOOL 2 3149	5	DEP					
PRES. MAX			IIMUM	COMMON_		_ @	
MEAS. LINE CEMENT LEFT IN	LCSC	SHC	DE JOINT 33.	POZMIX _			-
PERFS.	1 0.50.	32,1		GEL CHLORIDE	579	_@ <del></del>	636 90
DISPLACEMENT	/3	3 7 5 8	38.5	ASC	230	@ 23.50	636.70 5405.00
	R 70F v	JIPMENT	20,2	Acon	205	@ 23.00	4715,00
	LQC	TI IVIIII V		150	30	@ 23.50	705.00
PUMPTRUCK	CEMENT	ER Robe	, ,	- florest	52"	@2.97	154.44
The second secon		Nath		Gilsonite	1153	@0.98	1129.99
BULK TRUCK	ILLI LI	164111	in U	- Mud Flu	sh 500gs1	@0.98	490.00
and the same of th	DRIVER	Steve	5			_ @	
BULK TRUCK			7				
# 378	DRIVER			HANDLING	415	_@ @ 2,48	1153 20
				MILEAGE _		2.75	1509.06
	RE	MARKS:		MILLAGE	F.E.S.	TOTAL	11 11
						TOTAL	13818.01
sec log					SERVI	CE	
				DEPTH OF I	OB	3419	5 9
				DEPTH OF J	CK CHARGE	7550	75
coment to	sart.	ce			TAGE	@2406,23	7406-25
					25 LUMI		
			, , ,	— MANIFOLD		The state of the s	275.00
	Than	kyo	4!!	50 HL		Million Annual	385.00
CHARGE TO:	arrah	John	Jay Jr.				
STREET						TOTAL	5735.00
	A Notes Inc						
CITY	ST	ATE	ZIP		DI LIC 9 EL OA	E EQUIDATES	(m)
					PLUG & FLOAT	I EQUIPMEN	
				111711	4//	0.176.0	.3/
				gate was	ettenlizaci	7 .	390.00
T- A11'- 1 O'1 0	C - C	TIC		per new 11 1	14 (15 (2)	The second secon	930,00
To: Allied Oil &				11771	wet shoe	The state of the s	690.00
You are hereby re				11070	age collar		6950.00
and furnish ceme		The second second second second					
						TOTAL	10270.0
done to satisfaction contractor. I have						TOTAL	
TERMS AND CO				CALECTAN	(If Any)		
LIGINO AND CO		1 10 HSICU		ide.	RGES 3190		
				- CIII CIII			
PRINTED NAME		FUC		DISCOUNT	8932 99	IE DAT	D IN 20 DAVE
PRINTED NAME	Setti	Fre	Wich-		8932.99 2970.8		D IN 30 DAYS

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olo								Prot. String	ין סר
d He	Bottom		Top	\frac{1}{17}	Wgt/Ft	Size 10 750		Casing Record Surface String	ဖျင
re >>>									
	То	ight From	Weight	Size	То	Bit From	Bit	Run Number	
			7	Z	MR. PHIL MARTIN			Witnessed By	<
					LEE BRETZ			Recorded By	מג
					GREAT BEND			Location	_
					52		oer .	Equipment Number	m
							Bottom	Time Logger on Bottom	
			574		723/		do: 1u	Time Well Ready	rr
					2014		emp.	Max. Recorded Temp.	1 =
							¥	Density / Viscosity	
			WATER		WATER			Type Fluid	-1
			c		C			Open Hole Size	5  <del>-</del>
			1099		3359		nterval	Bottom Logged Interval	4 00
			1100		3362			Depth Logger	lo
					3713			Depth Driller	صا
			ONE		ONE			Run Number	מ
					12-17-2012		-	Date	ال
	G.L. 1916		G	KELLY BUSHING	m	Drilling Measured From	Sta	We Fie	
	K.B. 1921	9161	IG 5' AGI	KELLY BUSHING		Permanent Datum Log Measured From		ell	
	Elevation								
	1	13W	2 2 3	16S	TWP	7		HC TR	
				N/2 - S/2 - NW	N/2 - 9		NSA		
	Other Services					Location	AS	MAI >	
	SAS	KANSAS	State	<b></b>	BARTON	County		Y DA N "B'	
					TRAPP	Field			
		Ó	AMO 94	\N "B" #	HOFFMAN "B" #6 OWWO	Well			
		Z	RAH, J	YY DAR	JOHN JAY DARRAH, JR	Company	<u>ი</u>		
	LOG	SOND	CEMENT BOND LOG	C		of Tree.	BEND, -	GREAT BEND, KANSAS	
	) )	; j		) !				Log-Vech	
						1			

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 LOG TECH OF KANSAS! (620)792-2167

DIRECTIONS SUSANK,KS 2 WEST 2 3/4 NORTH EAST INTO



**DV TOOL** 

Database File: hoffmanswd.db Dataset Pathname: pass4

Wed Dec 17 16:07:13 2014 by Log 7.0 B1 Depth in Feet scaled 1:240 Dataset Creation:

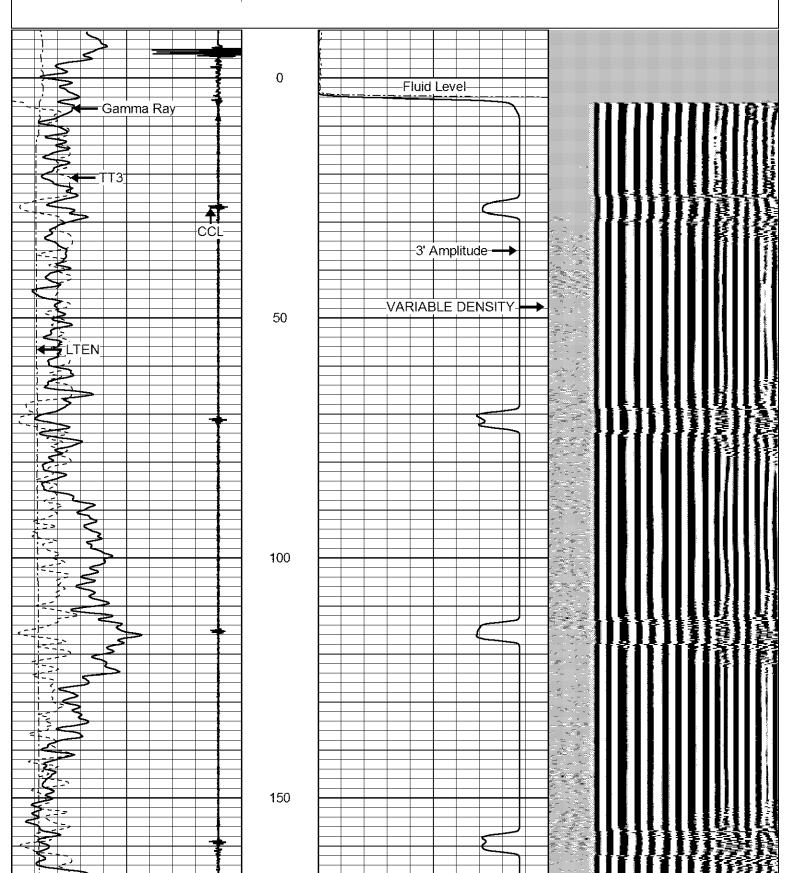
Charted by:

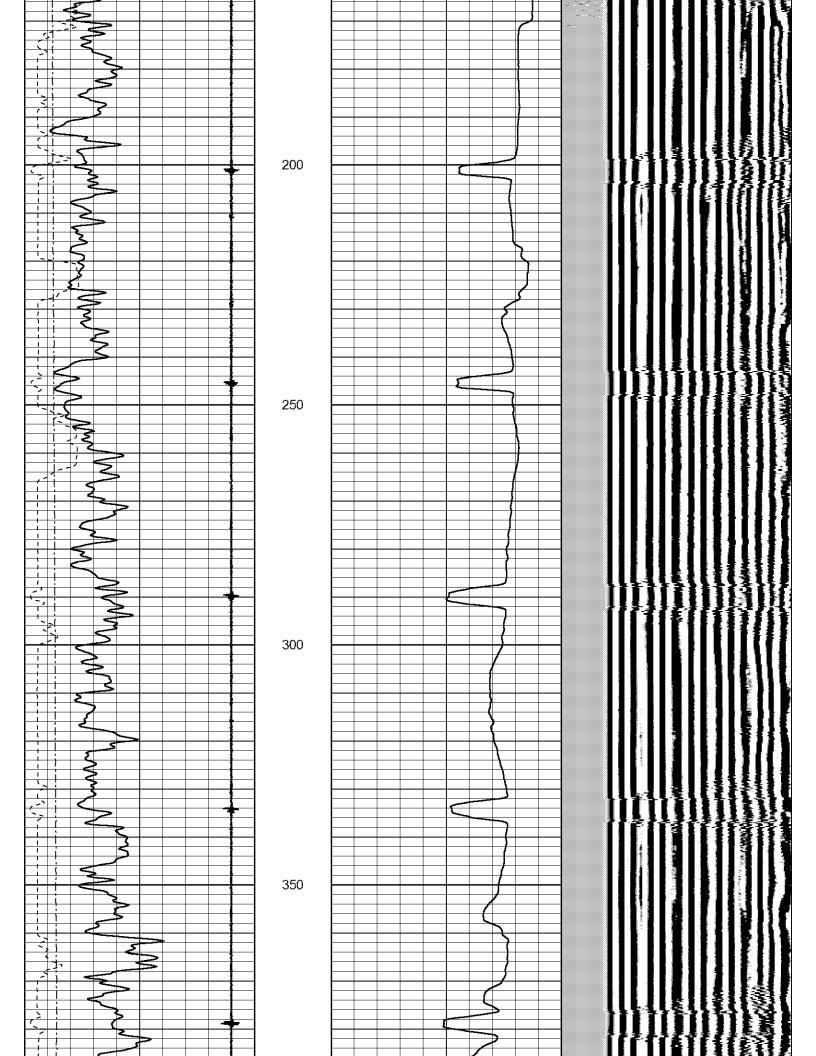
cbl02

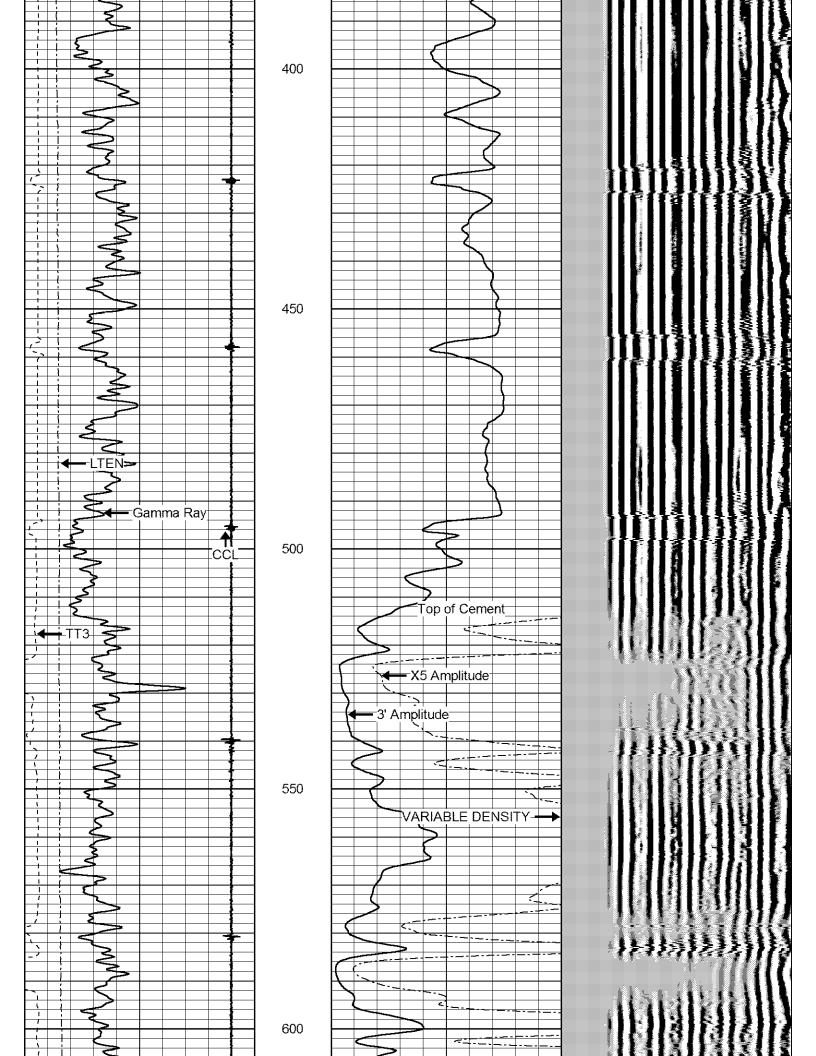
9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000

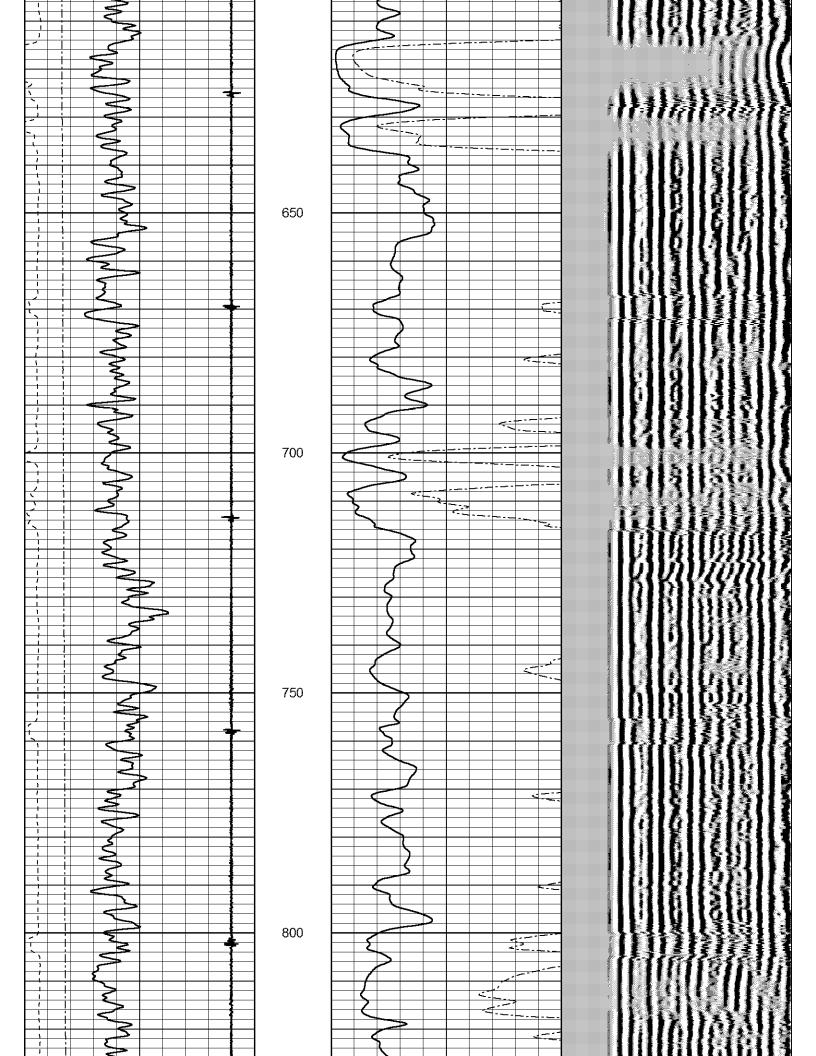
Presentation Format:

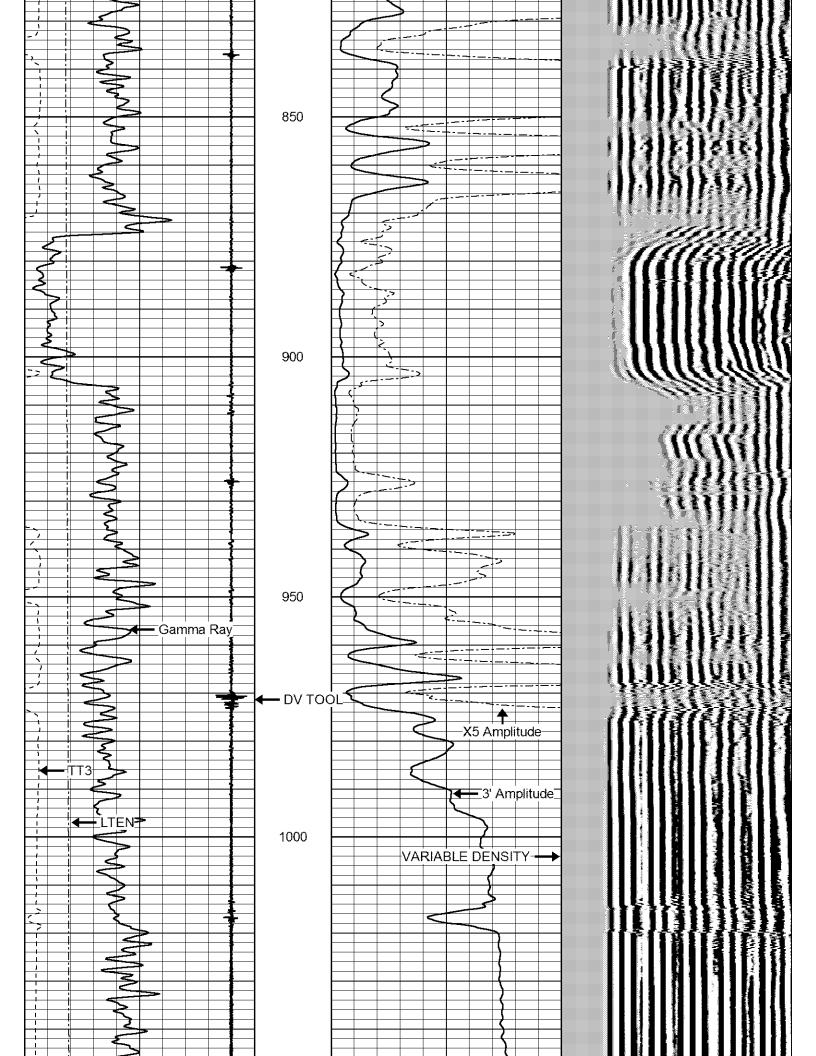
0	Amplitude (mV)	100 200	VARIABLE DENSITY	1200
0	X5 Amplitude (mV)	20		

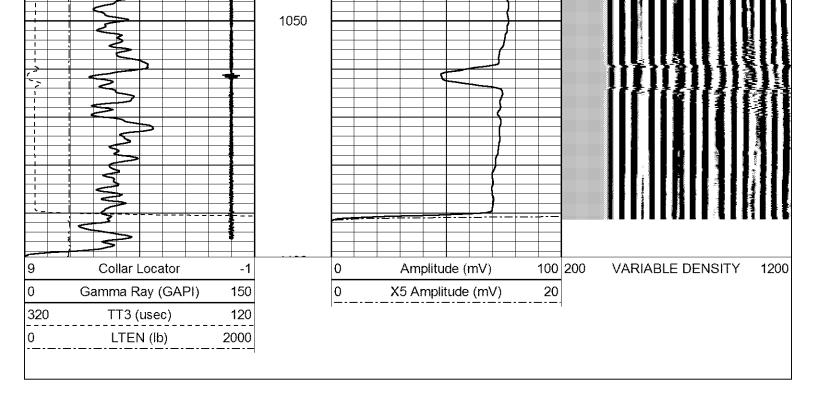














## MAIN PASS

Database File: hoffmanswd.db

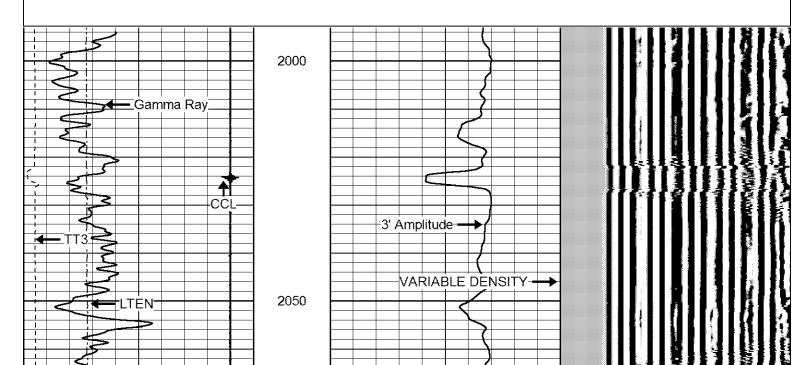
Dataset Pathname: pass3 Presentation Format: cbl02

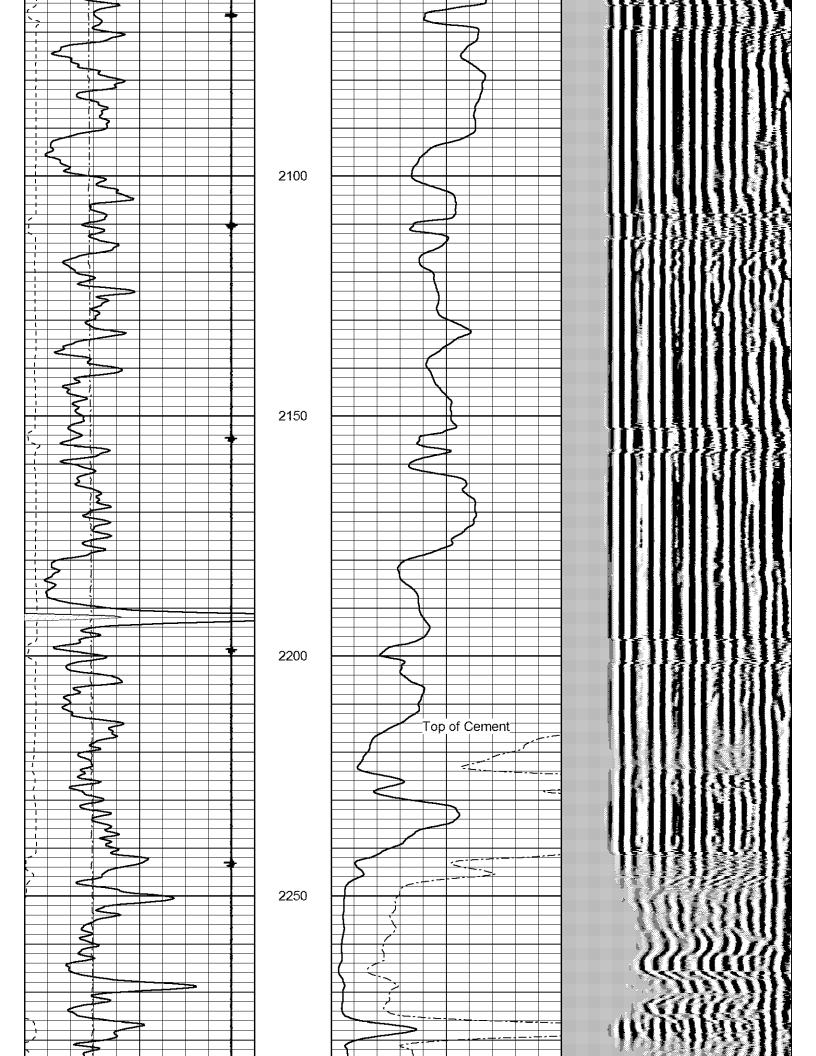
Dataset Creation: Wed Dec 17 15:27:51 2014 by Log 7.0 B1

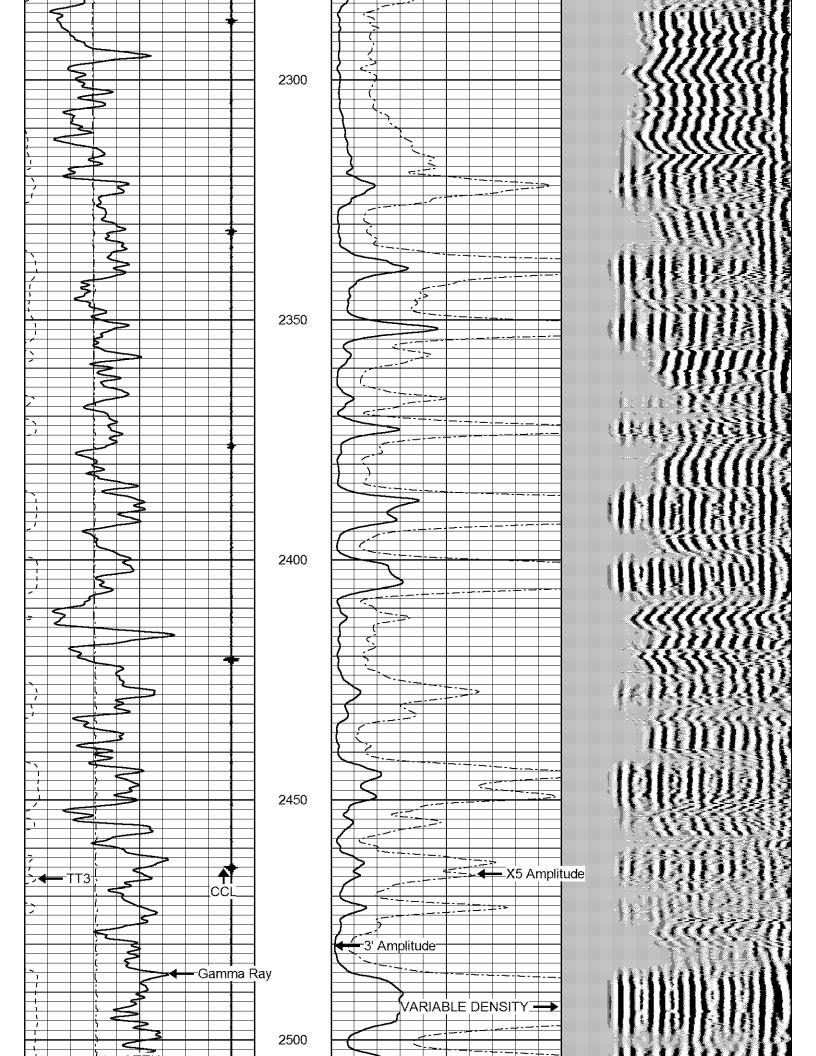
Charted by: Depth in Feet scaled 1:240

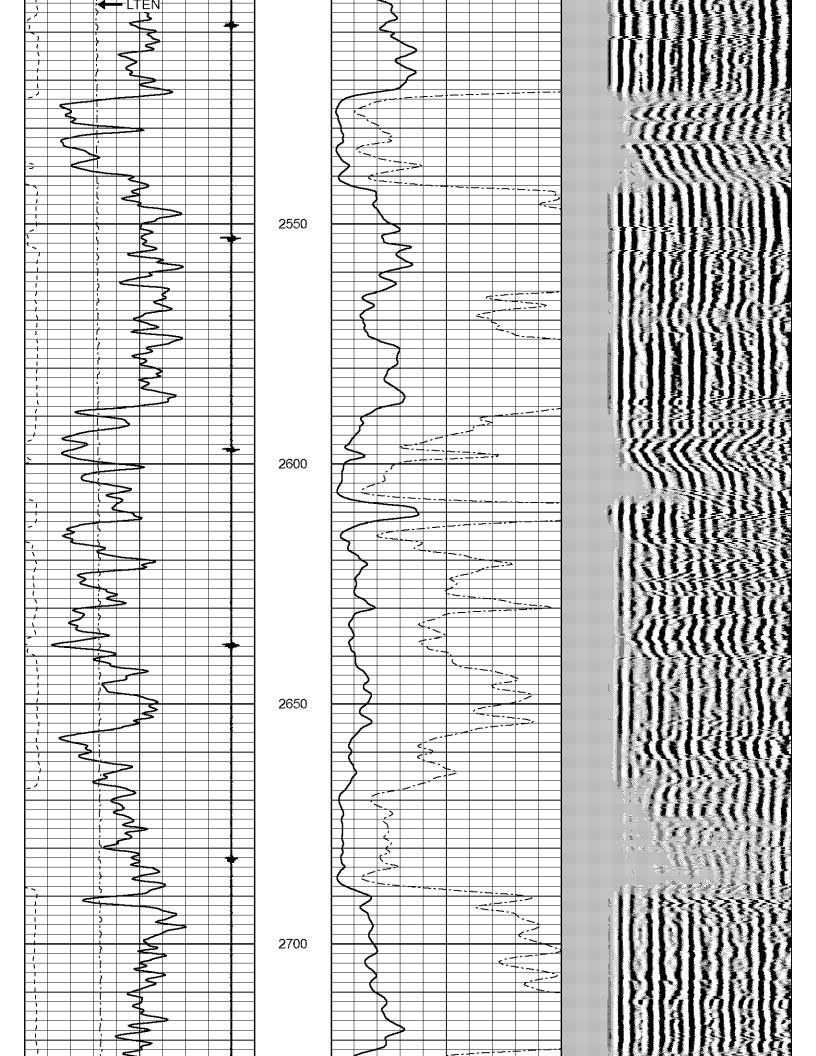
9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	2000

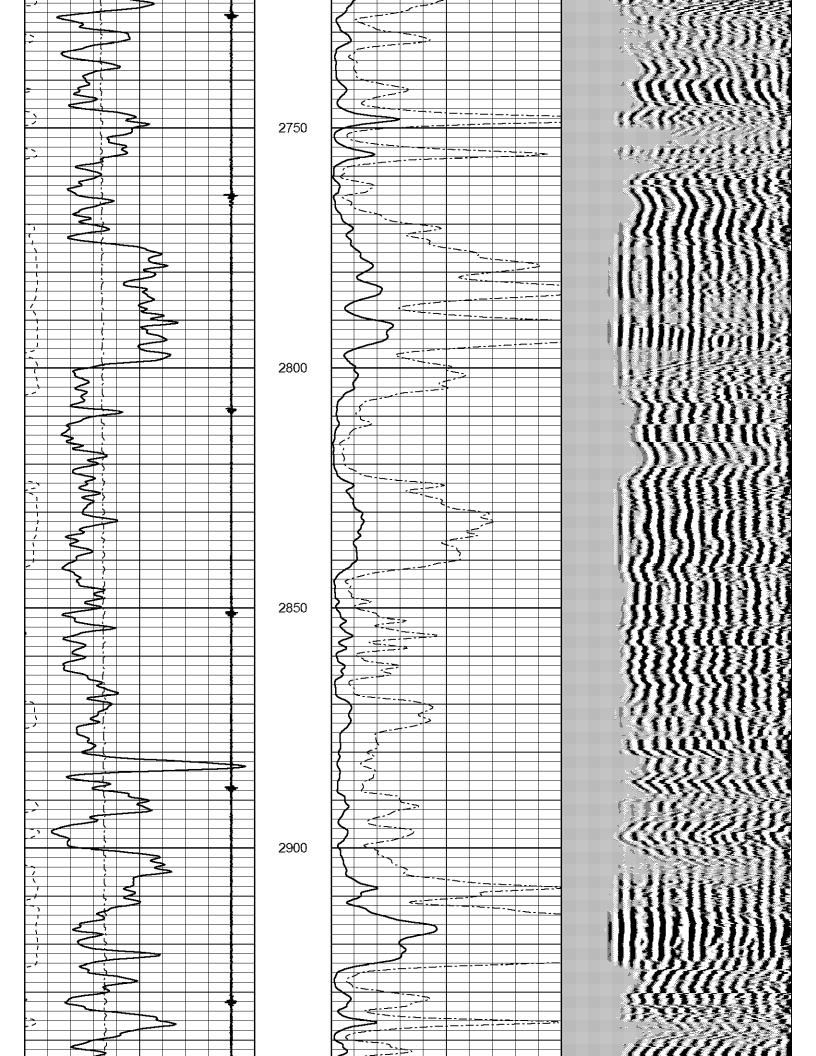
0	Amplitude (mV)	100 200	VARIABLE DENSITY	1200
0	X5 Amplitude (mV)	20		

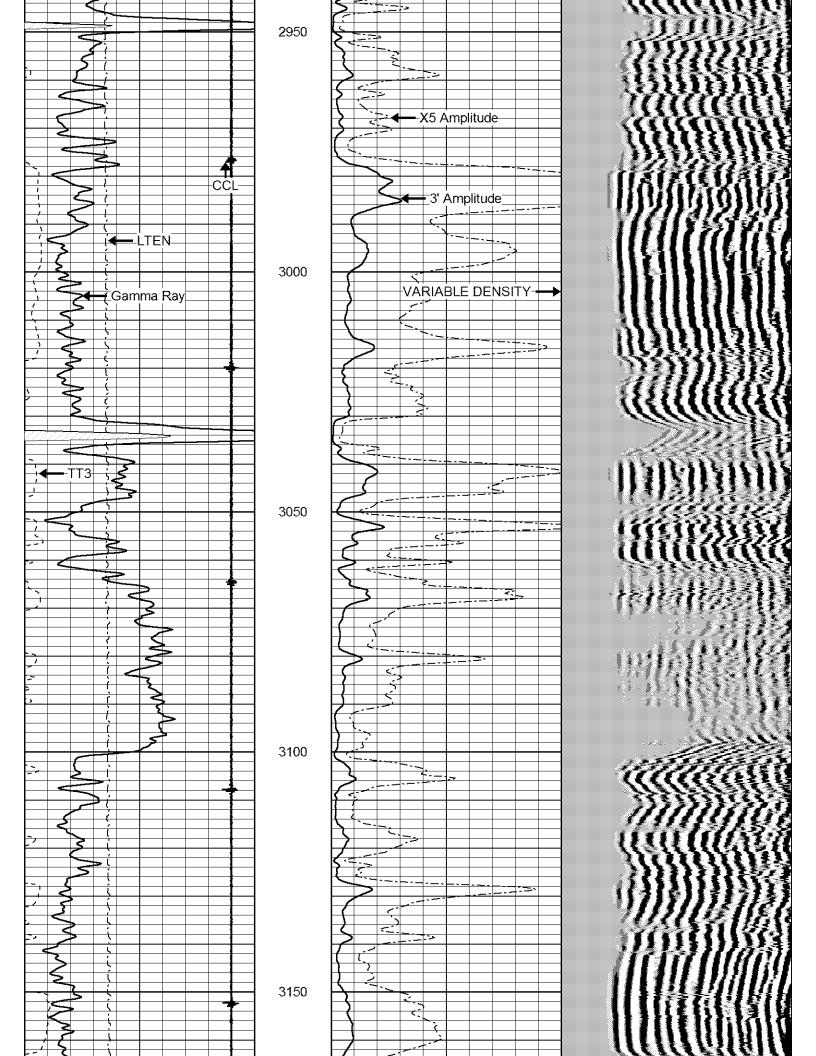


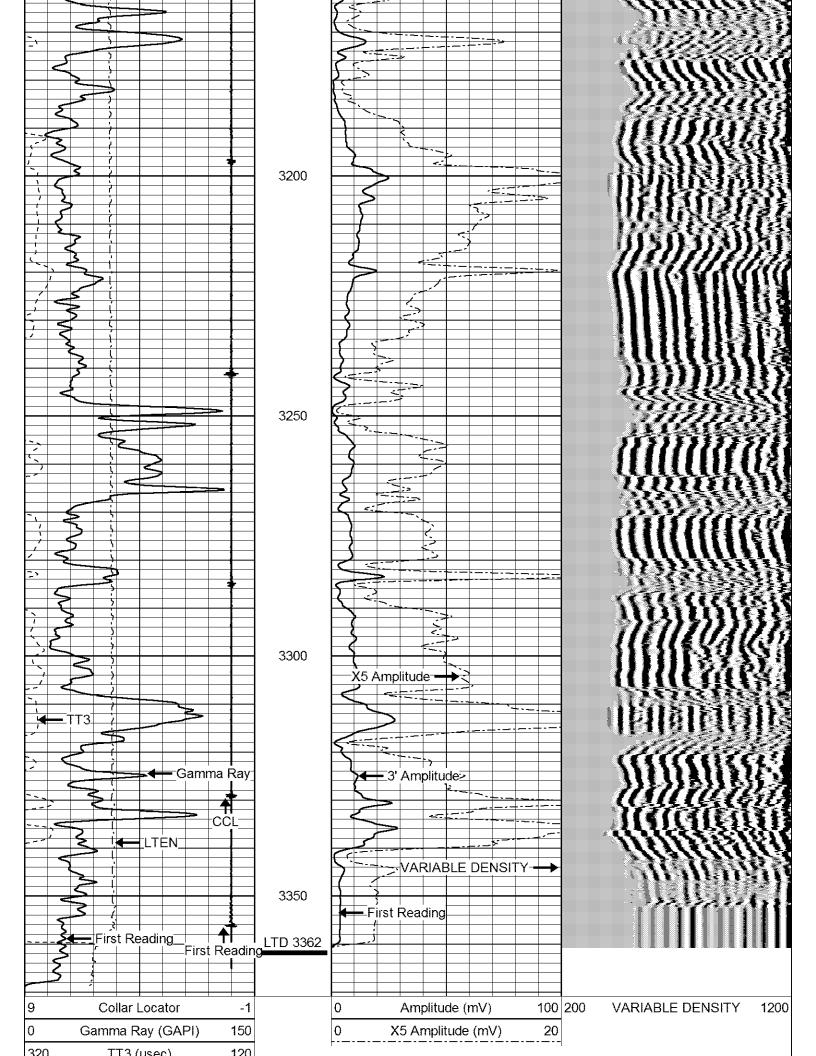












	1.0 (0000)	
0	LTEN (lb)	2000



# REPEAT SECTION

Database File: hoffmanswd.db

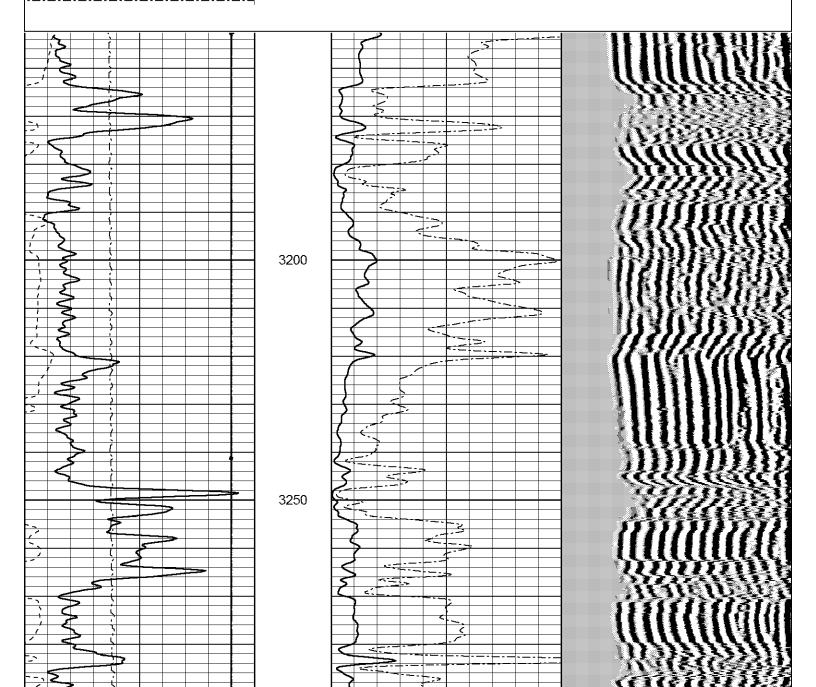
Dataset Pathname: pass2 Presentation Format: cbl02

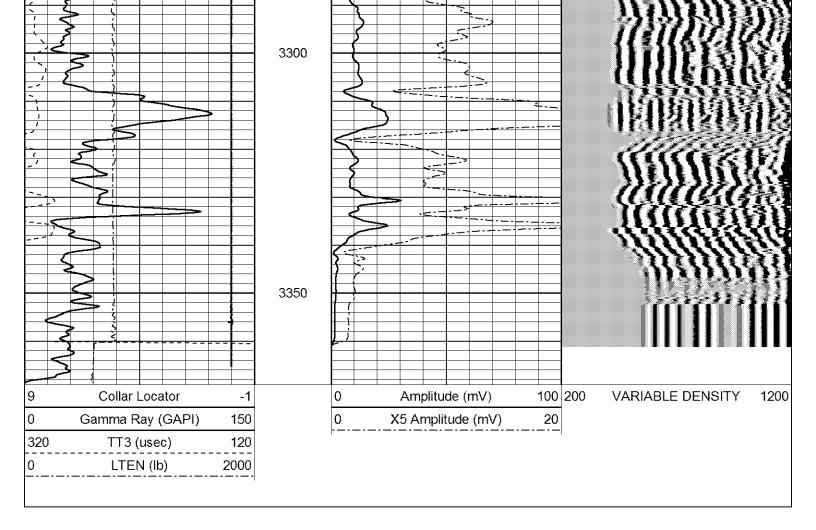
Dataset Creation: Wed Dec 17 15:20:28 2014 by Log 7.0 B1

Charted by: Depth in Feet scaled 1:240

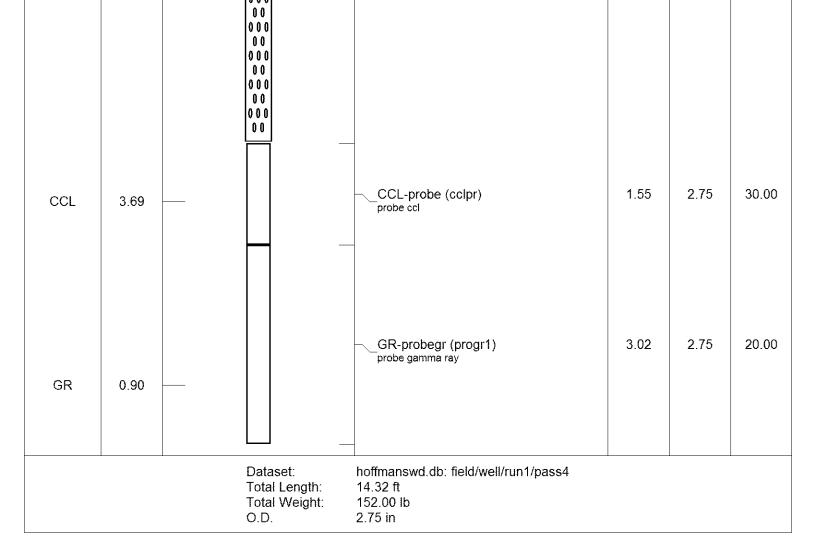
9	Collar Locator	
0	O Gamma Ray (GAPI)	
320	TT3 (usec)	120
0	LTEN (lb)	2000

)	Amplitude (mV)	100 200	VARIABLE DENSITY	1200
<u>`</u>	Y5 Amplitude (mV)	20		





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
		000				
		0 0 0 0 0 0 0 0 0				
		0 0 0 0 0 0 0 0 0				
		0 0 0 0 0 0 0 0 0	CPI probabl (probable)	8.75	2.75	92.00
WVF3	8.76	0 0 0 0 0 0 0	CBL-probecbl (probecbl1) probe cbl	0.70	2.10	92.00
WVF5	7.76	 0 0 0 0 0 0 0 0				
		000				





Hoffman B #6 SWD (OWWO)

**OPERATOR** 

Well Name: Surface Location: **Bottom Location:** API: License Number:

Drilling Fluid Type:

N2/S2/NW Sec 7 T16S R13W

Spud Date: Region: **Drilling Completed:** Surface Coordinates: **Bottom Hole Coordinates:** Ground Elevation: K.B. Elevation: 15-009-05013-0001

5088 11/13/2014 **Barton County** 

11/17/2014 Time: 9:00 AM 1650' FNL & 1320' FWL 1916.00ft

Time:

To:

Field:

Country:

Name:

# of Joints

0.00 ft

12:00 PM

3713.00ft

15-009-05013-0001

Seth L. Evenson

**Drilled Out At** 

Trapp United States

1921.00ft Logged Interval: 3400.00ft Total Depth: 3713.00ft Formation:

Chemical mud

Darrah Oil Company, LLC 225 N. Market Suite #300 Wichita, KS 67202

Contact Geologist: Contact Phone Nbr:

Company:

Address:

Seth Evenson (316) 219-3390

Well Name: Location: Pool: State:

K.B. Elevation:

K.B. to Ground:

N/S Co-ord:

E/W Co-ord:

Address:

Rig #: Rig Type:

Surface

Size

Bit Size Hole Size

**OIL SHOWS** Even Stn

Spotted Stn 50 - 75 % ● Spotted Stn 25 - 50 %

Curve Track #01

Hoffman B #6 SWD (OWWO) N2/S2/NW Sec 7 T16S R13W API:

Kansas

**ELEVATIONS** 1921.00ft Ground Elevation: 1916.00ft 5.00ft

SURFACE CO-ORDINATES

Well Type: Vertical Longitude: Latitude:

**LOGGED BY** Company: Darrah Oil Co. LLC

1650' FNL

1320' FWL

Phone Nbr: (316) 219-3390 Logged By: Geologist

225 N. Market, Suite #300

CONTRACTOR Mallard J.V. Contractor:

Standard Double

Intermediate

Set At

Spud Date: 11/13/2014 Time: 12:00 PM 9:00 AM TD Date: 11/17/2014 Time: Rig Release: 11/18/2014 Time: 10:00 AM

**CASING SUMMARY** 

Main

Type

0.00

Surf Casing 10 3/4 in 345 ft Int Casing 3419 ft 79 11/17/2014 3:00 PM 7 in **Prod Casing CASING SEQUENCE** Type Hole Size Casing Size At

0.00 in

Dolsec Meta Shcol Quartz **ACCESSORIES** 

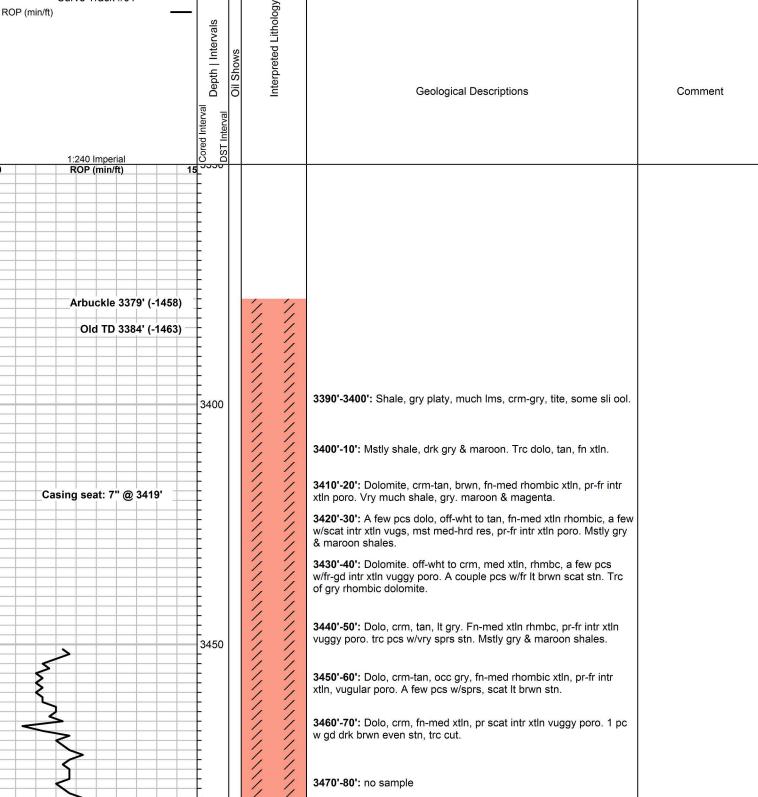
STRINGER ··· Sandstone Shale

**ROCK TYPES** 

OTHER SYMBOLS

O Spotted Stn 1 - 25 % O Questionable Stn D Dead Oil Stn ■ Fluorescence

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



**3500'-10':** Mstly shale cavings, as abv. Trc of gry vfn xtln, dolo. Several pcs dolo, crm-tan, fn-med xtln, 1 pc vry sli glauc. A couple pcs w/poss It even-scat stn. 1 pc w/fr strming cut.

3510'-20': A few pcs dolo, fn-med xtln, semi-sucrosic, poss vry sli

3480'-90': Very much shale, gry, grn, maroon. Some lms, crm, tite,

3490'-3500': Mstly shale & Ims as abv, probably slough. Trc dolo,

some sli chlky. Trace of dolomite.

15 3500

3550

3600

3650

3700

ROP (min/ft)

Quartzite 3578' (-1657)

Pre-cambrian Basement complex 3663' (-1742)

w/poss It even stn. Poor sample quality.

scat trc stn. Mstly, shale & Im from up-hole.

stained. No cut. Possibly shalely.

carbonaceous shale as above.

3540'-50': Almost all shale, gry, maroon & drk grn, platy. Trc dolomitic gry shale, & trc vry drk gry to blk, sli carbonaceous shale.

3550'-60': Shale, as above. Trc sli dolo shale & trc blk, sli

3520'-30': Shale and limestone hole cavings. Trc dolomite. 3530'-40': Mstly shale slough as above. Several pcs dolo, tan to gry, fn-med xtln. A couple pcs drk gry/blk, appear to be heavily

3560'-70': Shale, as above. 3570'-80': Dolo, crm-tan, fn-med xtln, trc sli sndy dolo, mstly pr vis

**3580'-90':** Dolo, crm-gry, fn xtln, some very shaley, all pr vis poro. 3590'-3600': Dolo, gry-tan, some brwn-drk brwn, fn xtln, mst frly cln matrix, w/vry sprs intr xtln vugs, a few pcs sli sndy. Some drk brwn

**3610'-20':** Sndy dolomite to dolomitic highly silicified sandstone. Some broken quartz fragments as above, mst clr, some rose qtz. Much dolo, tan fn-med xtln, pr vis por w/v sprs scat intr xtln vugs.

3620'-30': Dolo, crm-tan, fn xtln. Much sndy dolo & loose qtz

& vry shaley. All pr overall porosity. 3600'-10': Scattered fragments of cir to frsty quartz. Mstly dolo, tancrm, fn xtln, a few pcs highly silicified & vry hrd res.

intr xtln poro. Vry much shale, as above.

fragments as above. A few qtz pcs sli yellow, trnslcnt, rose & 1 pcs blk qtz. Mst clr-frsty qtz. Some sli pyritic. 3630'-40': Dolomite, off-wht, crm-tan, often sndy. Some vfn, gry, but mst fn-med xtln, pr-fr intr xtln poro. Some quartz fragments.

**3640'-50':** Dolo, crm-tan to off-wht, med xtln, some w/fr scat intr xtln vugs. A few pcs highly sndy dolo, trc vry sli gluaconitic. Some scat fragments qtz, less than above. 1 pc drk brwn dolo, med off-wht to bone rhombs, w/gd drk even syn & slw strming cut.

3650'-60': Dolo, crm, tan, It gry, fn xtln, a few pcs sndy dolo. Much shale, drk maroon & drk grn/gry shale. Some scat qtz fragments as

**3660'-70':** Highly silicified dolo, tan-lt brwn sli orng, fn-med xtln, often sndy, pr poro. Much prpl conglmritic shale & some gry shale.

3670'-80': Drk gry/grn, sli silicaceous shale, grading to sli chloritic schist? Med res. Mstly tan-lt brwn sli orng silicified dolomite & prpl

3680'-90': Metamorphic schisht? Blk, some w/vry sli greenish tint. Med-hrd res, tweezers leave streak on some pcs. Partially-vry much xtln, vfn-fn xtln, no vis porosity. Much dolomite, prpl conglmrtc shale & some qtz as above. 3690'-3700': Metamorphic schist. Vry drk gry/grn-blk, poss sli

chloritic, as above. Great increase in loose quartz fragments, often

3700'-10': A bunch of schist! Metamorphic schist, vdrk gry sli grn to blk. Possibly sli chloritic, med res, micro-vfn xtln, no poro. 1 pc w/sli

sli orange-reddish, some rose, most clr-frsty.

fairly easily. No visiable porosity.

yellowish transprnt qtz attchd. 3713' CFS 15 min: Metamorphic schist, some chloritic, as above. Increase in trnslcnt crystalline minerals imbedded in schist.

3713' CFS 30 min: Schist, drk gry-blk, sli grn or yellowish. Seems slightly more crystalline than above. Med-hrd res, surface scratches