



KANSAS CORPORATION COMMISSION 1075017  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 5285  
Name: Hansen, Dane G. - Trust  
Address 1: PO BOX 187  
Address 2: \_\_\_\_\_  
City: LOGAN State: KS Zip: 67646 + 0187  
Contact Person: Richard L. Wallgren, Sr.  
Phone: (785) 689-4816  
CONTRACTOR: License # 31548  
Name: Discovery Drilling  
Wellsite Geologist: David Goldak  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
7/7/2011    7/15/2011    7/15/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-051-26164-00-00  
Spot Description: \_\_\_\_\_  
NW NE SW NE Sec. 3 Twp. 14 S. R. 20  East  West  
1361 Feet from  North /  South Line of Section  
1721 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Ellis  
Lease Name: DINKEL Well #: 11  
Field Name: Pleasant West  
Producing Formation: Arbuckle  
Elevation: Ground: 2260 Kelly Bushing: 2265  
Total Depth: 4000 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 265 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1531 Feet  
If Alternate II completion, cement circulated from: 1531  
feet depth to: 0 w/ 155 sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 16000 ppm Fluid volume: 320 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
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**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garcia Date: 02/27/2012



1075017

Operator Name: Hansen, Dane G. - Trust Lease Name: DINKEL Well #: 11  
 Sec. 3 Twp. 14 S. R. 20  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Radiation Guard Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Attached Top Attached Datum Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12.2500	8.6250	23	264	Common	160	2% Gel & 3% CC
Production	7.8750	5.5000	15	3950	EH/2	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hansen, Dane G. - Trust
Well Name	DINKEL 11
Doc ID	1075017

Tops

Anhydrite	1552	+713
Base Anhy	1600	+665
Topeka	3237	-972
Heebner	3491	-1226
Toronto	3512	-1247
Lansing	3531	-1266
Base KC	3784	-1519
Marm Chert	3829	-1564
Arbuckle	3875	-1610
Reagan Sd	3972	-1707
Granite Wash	3990	-1725



CHARGE TO:  
*D. G. Hansen Trust*  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
 19843

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Harc Co</i>	WELL/PROJECT NO. #11	LEASE <i>Dinkel</i>	COUNTY/PARISH <i>Ellis</i>	STATE <i>KS</i>	CITY	DATE <i>7-15-11</i>	OWNER
2. <i>Ness Co, Ks</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Dickinson Drilling</i>	RIG NAME/NO. #1 (C.H.)	SHIPPED VIA	DELIVERED TO <i>SE/Ellis, KS</i>	ORDER NO.	
3.	WELL TYPE <i>oil</i>	WELL CATEGORY <i>infilled</i>	JOB PURPOSE <i>Convent 2 steel string</i>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	50				5000	250000
577		1			Pinpoint Charge - cont 3 stage	1	3950	HA		140000	140000
221		1			Liquid HCL	4		gal		25000	100000
281		1			Mudflush	500		gal		100	50000
296		1			D-Air	4		gal		35000	140000
402		1			Contractors	7		5 1/2 in		65000	455000
703		1			Convent Baskets	2		5 1/2 in		230000	460000
707		1			Insol Float Stop w/ Auto Fall	1		5 1/2 in		300000	300000
405		1			D.W. Tool Set	1		5 1/2 in		225000	225000
417		1			D.V. Latch Man Plug + Bar 1/2	1		5 1/2 in		300000	300000
419		1			Rotating Head Eductor	1		5 1/2 in		150000	150000

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *[Signature]*

DATE SIGNED *7-15-11* TIME SIGNED *0300*  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	P1 PAGE TOTAL	670500
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P2	716565
WE UNDERSTOOD AND MET YOUR NEEDS?					1389065
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TAX	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

SWIFT OPERATOR  
*[Signature]*

APPROVAL

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 19843

CUSTOMER D. C. Henson Trust	WELL #11 Dinkel	DATE 7-15-11	PAGE 2	OF 2
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PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		SUM		UNIT PRICE	AMOUNT
		LOC	ACCT	BF			QTY	UM	QTY	UM		
225		2				Standard Cement FH-7	150	SK	19100	lbs	12.00	1900.00
276		2				Floca	35	lbs			1.50	52.50
282		2				Salt	750	lbs			.15	112.50
284		2				Cement	705	lbs	2	SK	30.00	210.00
286		2				Water-1	71	lbs			7.00	497.00
276		2				SWIFT Cement	300	SK	19853	lbs	15.00	2977.50
276		2				Floca	50	lbs			1.50	75.00
281		2				SERVICE CHARGE Cement					1.57	525.00
283		2				MILEAGE CHARGE	TOTAL WEIGHT 2.55 lbs	LOADED MILES 50			1.00	509.15

CONTINUATION TOTAL 7167.65

JOB LOG

SWIFT Services, Inc.

DATE 7-15-11 PAGE NO. 7

CUSTOMER D.G. Hanson Trust WELL NO. #11 LEASE Dinkel JOB TYPE Cement 7 stage Fracture TICKET NO. 19843

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 1950	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	0805								On location w/ F.E.
	1315								Start 5 1/2" - 15.5#/ft casing Inject Fluid Stage 1) A-10 fill L.D. Ball (DU) - 5.5" 2 1/2" to 3927' Cant rollers 1-3-5-7-9-57-60 Cant Packer 31 Pin 41 58 D.V. Tool "58 roller (in 15.31' Drop ball eye ball to the next Fin run casing
	1730								Start 10" / Release casing
	1815								Fin run - 1st stage
	0515	6	12				200		Plugs 50-500 1/2" 1/2" flush
		6	20				200		Plugs 20 RPM KLL flush
		4					210		Start 15.5 #/ft FR-2 cant @ 15.5 #/gal
	1545		36				vac		Fin cont - Wash and Pump Linos
	1540	9					250		Drop D.V. L.D. Plug - steel Disol
		9					60 BBL		HL - 15 BBL Head 4 1/2" 2 1/2" KLL
		9	60				350		Fin HL - steel A-10 - cement cont
			75						Fin Head - steel KLL flush
	1600		93 1/2				250		Plug Down - Hold-Release / Hold
	1605						0		Drop D.V. cement seal -
			36						Plug RH - 30 SKS SWD / out - 15 SKS SWD
	1670	6	3				150		Open D.V. KLL flush
		10					125		Start 15.5 #/ft SKS SWD cont @ 11.2 #/gal
			810				1200		Fin cont - Drop D.V. closing Plug
		5					210		Start 3 1/2" BBL Disol
	1700		36 1/2				250		Plug Down - cont / 10 to 20 SKS
									Hold - Release - OK
	1715								Tool Comp state - OK Leasing up to 1000 ft 1100 ft 1200 ft 1300 ft 1400 ft 1500 ft 1600 ft 1700 ft 1800 ft 1900 ft 2000 ft 2100 ft 2200 ft 2300 ft 2400 ft 2500 ft 2600 ft 2700 ft 2800 ft 2900 ft 3000 ft 3100 ft 3200 ft 3300 ft 3400 ft 3500 ft 3600 ft 3700 ft 3800 ft 3900 ft 4000 ft 4100 ft 4200 ft 4300 ft 4400 ft 4500 ft 4600 ft 4700 ft 4800 ft 4900 ft 5000 ft 5100 ft 5200 ft 5300 ft 5400 ft 5500 ft 5600 ft 5700 ft 5800 ft 5900 ft 6000 ft 6100 ft 6200 ft 6300 ft 6400 ft 6500 ft 6600 ft 6700 ft 6800 ft 6900 ft 7000 ft 7100 ft 7200 ft 7300 ft 7400 ft 7500 ft 7600 ft 7700 ft 7800 ft 7900 ft 8000 ft 8100 ft 8200 ft 8300 ft 8400 ft 8500 ft 8600 ft 8700 ft 8800 ft 8900 ft 9000 ft 9100 ft 9200 ft 9300 ft 9400 ft 9500 ft 9600 ft 9700 ft 9800 ft 9900 ft 10000 ft
									40 SKS SWD cont @ 11.2 #/gal circulate Allow permeation Pullover 1100 ft 1200 ft 1300 ft 1400 ft 1500 ft 1600 ft 1700 ft 1800 ft 1900 ft 2000 ft 2100 ft 2200 ft 2300 ft 2400 ft 2500 ft 2600 ft 2700 ft 2800 ft 2900 ft 3000 ft 3100 ft 3200 ft 3300 ft 3400 ft 3500 ft 3600 ft 3700 ft 3800 ft 3900 ft 4000 ft 4100 ft 4200 ft 4300 ft 4400 ft 4500 ft 4600 ft 4700 ft 4800 ft 4900 ft 5000 ft 5100 ft 5200 ft 5300 ft 5400 ft 5500 ft 5600 ft 5700 ft 5800 ft 5900 ft 6000 ft 6100 ft 6200 ft 6300 ft 6400 ft 6500 ft 6600 ft 6700 ft 6800 ft 6900 ft 7000 ft 7100 ft 7200 ft 7300 ft 7400 ft 7500 ft 7600 ft 7700 ft 7800 ft 7900 ft 8000 ft 8100 ft 8200 ft 8300 ft 8400 ft 8500 ft 8600 ft 8700 ft 8800 ft 8900 ft 9000 ft 9100 ft 9200 ft 9300 ft 9400 ft 9500 ft 9600 ft 9700 ft 9800 ft 9900 ft 10000 ft

# GEOLOGIC REPORT

## DAVID J. GOLDAK

WICHITA, KANSAS  
Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Dinkel #11  
Location: Section 3 - T14S - R20W  
License Number: API: 15-051-26164  
Spud Date: 07 / 07 / 2011  
Surface Coordinates: 1361' FNL and 1721' FEL  
Approx. E/2 - W/2 - NE

Region: Ellis Co., KS  
Drilling Completed: 07 / 14 / 2011

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2257'                      K.B. Elevation (ft): 2265'  
Logged Interval (ft): 3150'              To: 4000'              Total Depth (ft): 4000'  
Formation: Precambrian Granite Wash  
Type of Drilling Fluid: Chemical - Andy's Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: The Dane G. Hansen Trust  
Address: P. O. Box 187  
Logan, Kansas 67646-0187

### GEOLOGIST

Name: David J. Goldak  
Company: D. J. GOLDAK, INC.  
Address: 155 N. Market, Suite 710  
Wichita, Kansas 67202

### General Info

CONTRACTOR: Dicovery Drilling, Rig #1

#### BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-WA417CC	14-14-14	264	264	3.00
2	7-7/8	HTC-GX20C	14-14-14	3616	3352	57.25
3	7-7/8	HTC-GX20C	14-14-14	4000	384	18.50

SURVEYS: 264'-0.25, 3616'-0.75, 4000'-1.00

#### GENERAL DRILLING & PUMP INFORMATION:

Pumping 58 S/M, 7.9 B/M, with 800 psi at the Standpipe.  
Drilling with 35,000-40,000 lbs on bit, at 75-80 RPM.

### Daily Status

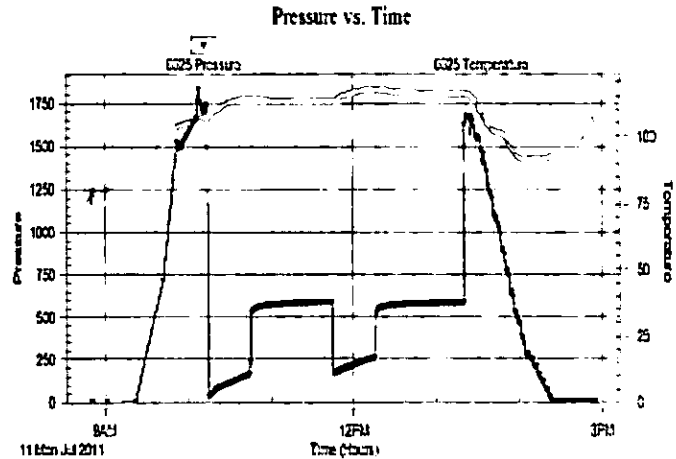
07/07/11 - Spud at 12:00 Noon; Set 8-5/8" Csg at 265'  
 07/08/11 - 675' Drilling  
 07/09/11 - 2,450' Drilling; Displace mud at 2,978'  
 07/10/11 - 3,167' Drilling  
 07/11/11 - 3,616' TOH for DST #1  
 07/12/11 - 3,702' TIH after DST #2; DST #3 in PM  
 07/13/11 - 3,854' TOH for DST #4  
 07/14/11 - 3,880' CTCH after DST #5; RTD 4,000' at 3:00 PM

**DST #1: 3,558' - 3,616' (LKC B - F)**  
 30" - 60" - 30" - 60"

IF: Good blow, BOB in 10 minutes  
 ISI: No blow back  
 FF: Good blow, BOB in 14 minutes  
 FSI: No blow back

RECOVERY: 500' Total Fluid, consisting of:  
 190' MW w/ show of oil (75% Water, 25% Mud)  
 310' Water; Chlorides: 50,000 ppm

SIP: 589-587; FP: 32-165, 168-259; HP: 1697-1666;  
 BHT: 115

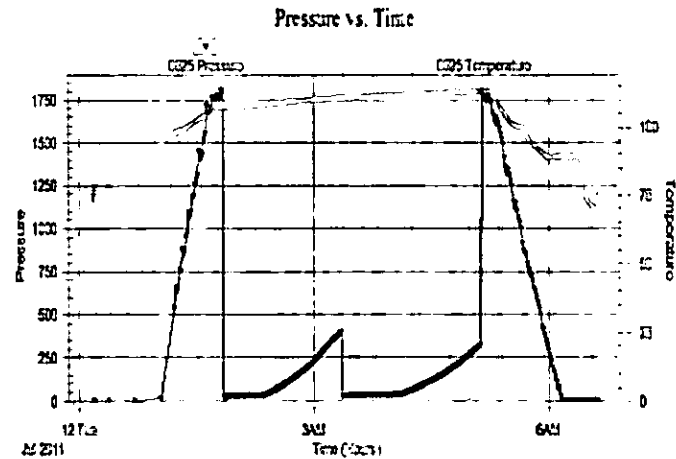


**DST #2: 3,658' - 3,702' (LKC H - I)**  
 30" - 60" - 45" - 60"

IF: Weak blow, building to 5-1/2 inches  
 ISI: No blow back  
 FF: Good blow, BOB in 9 minutes  
 FSI: No blow back

RECOVERY: 325' GIP & 45' Total Fluid, consisting of:  
 45' HO&GCM (20% Gas, 30% Oil, 25% Mud)

SIP: 398-318; FP: 25-38, 27-39; HP: 1798-1742;  
 BHT: 113

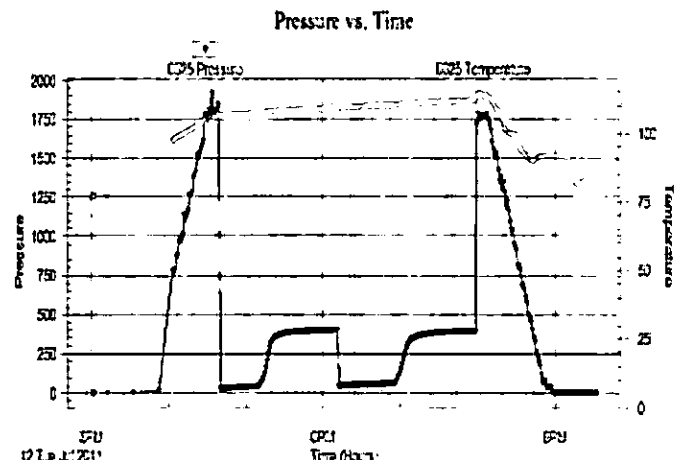


**DST #3: 3,708' - 3,752' (LKC J - K)**  
 30" - 60" - 45" - 60"

IF: Weak blow, building to 5 inches  
 ISI: No blow back  
 FF: Weak blow, building to 5-1/2 inches  
 FSI: No blow back

RECOVERY: 225' GIP & 75' Total Fluid, consisting of:  
 5' CO (100% Oil); Gravity: 31 API  
 10' O&GCWM (10% Gas, 15% Oil, 15% Water, 60% Mud)  
 60' OCMW (5% Oil, 70% Water, 25% Mud)  
 Chlorides Recovery: 46,000 ppm

SIP: 399-393; FP: 25-43, 44-63; HP: 1786-1767; BHT: 112



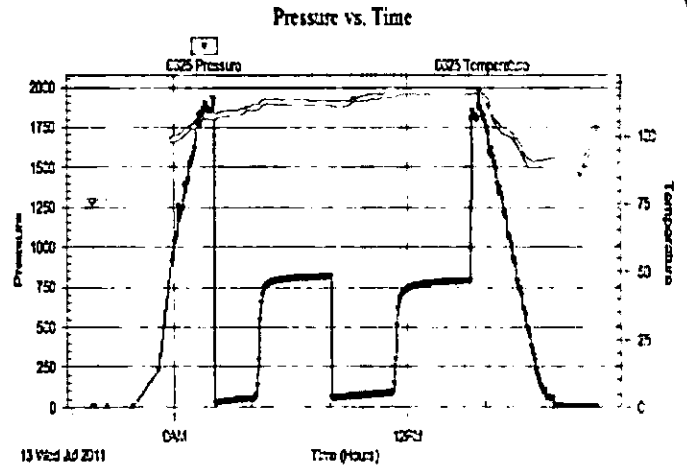


**DST #4: 3,802' - 3,854' (Marmaton Chert)**  
 30" - 60" - 45" - 60"

**IF:** Weak blow, building to 4-1/2 inches  
**ISI:** No blow back  
**FF:** Weak blow, building to BOB in 45 minutes  
**FSI:** No blow back

**RECOVERY:** 310' GIP & 186' Total Fluid, consisting of:  
 62' CO (100% Oil); Gravity: 41 API  
 62' MCGO (10% Gas, 50% Oil, 40% Mud)  
 62' HO&GCM (10% Gas, 30% Oil, 60% Mud)

**SIP:** 816-791; **FP:** 23-54, 61-93; **HP:** 1848-1796; **BHT:** 116

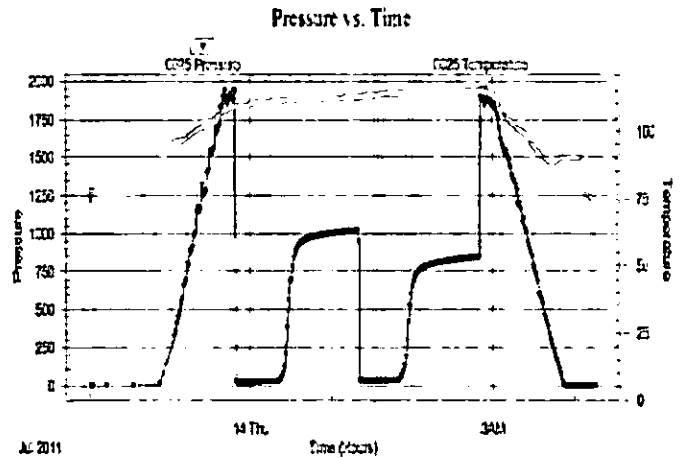


**DST #5: 3,862' - 3,880' (Arbuckle)**  
 30" - 60" - 30" - 60"

**IF:** Weak blow, building to 1-1/4 inches  
**ISI:** No blow back  
**FF:** Weak surface blow throughout  
**FSI:** No blow back

**RECOVERY:** 40' Total Fluid, consisting of:  
 1' CO (100% Oil)  
 39' HOCM (40% Oil, 60% Mud)

**SIP:** 1017-845; **FP:** 24-30, 32-35; **HP:** 1877-1875;  
**BHT:** 114



**ROCK TYPES**

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Sltstn
- Shlyslts
- Sltysch
- Lms

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

#### OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

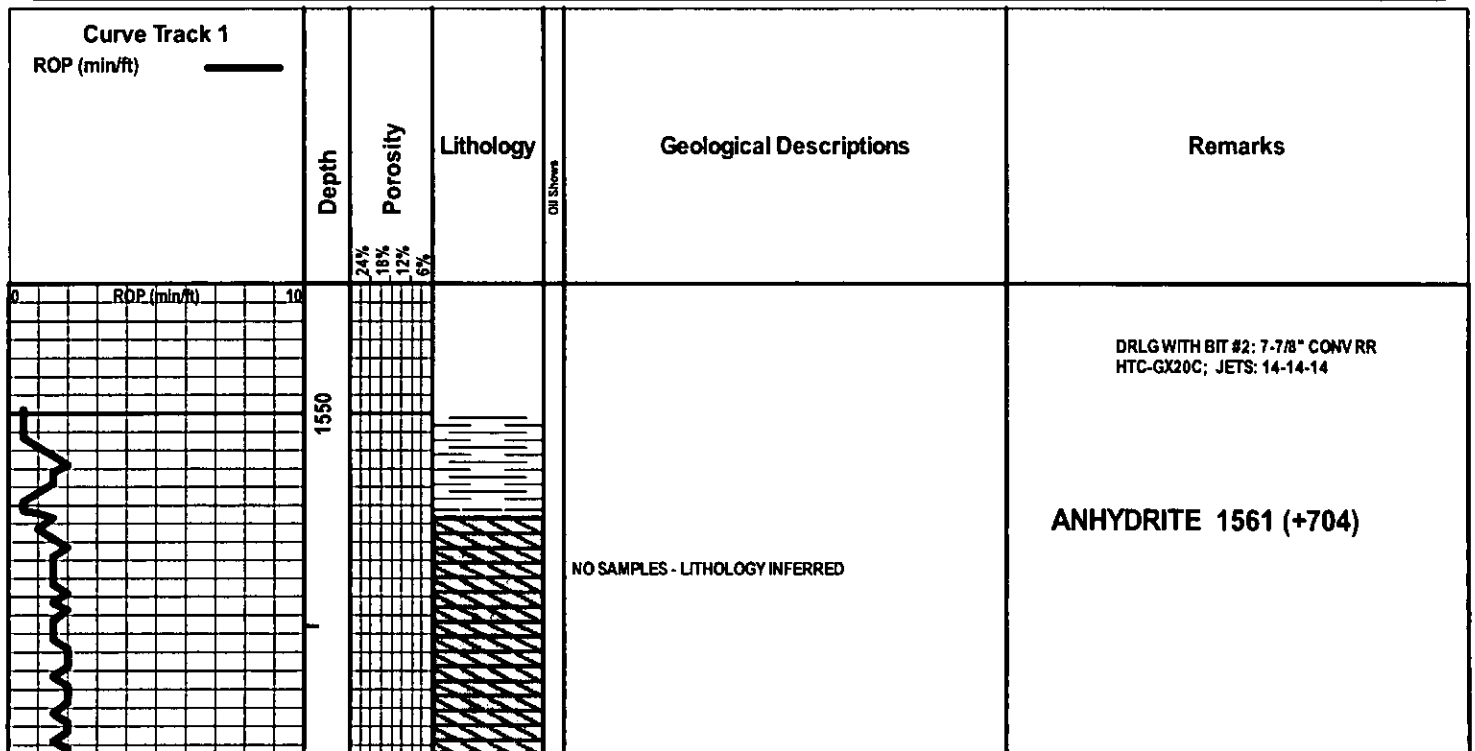
#### INTERVALS

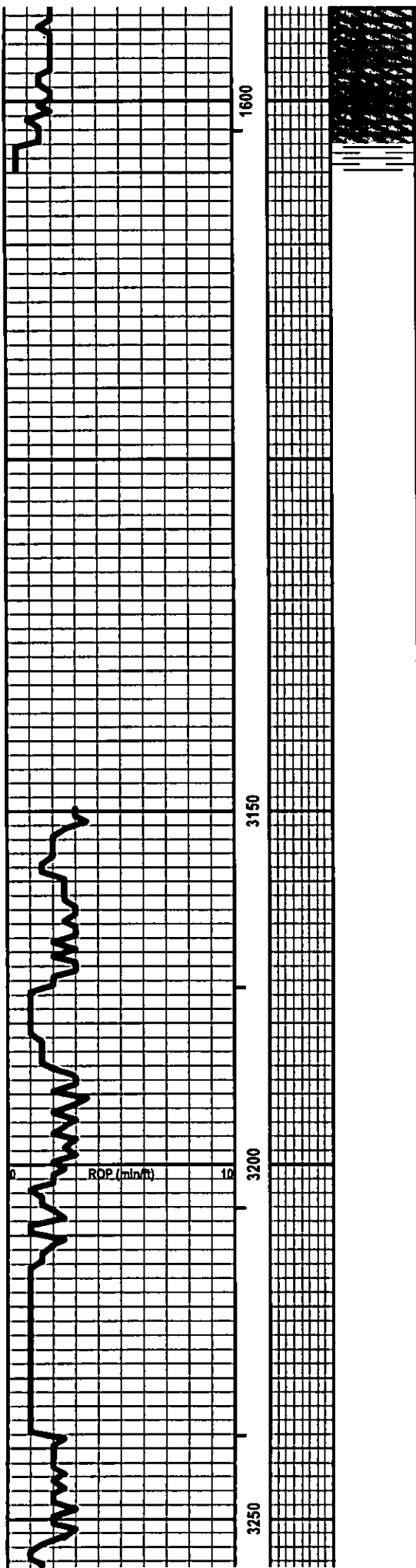
- Core
- Dst

- Dst

#### EVENTS

- Rft
- Sidewall
- Conn





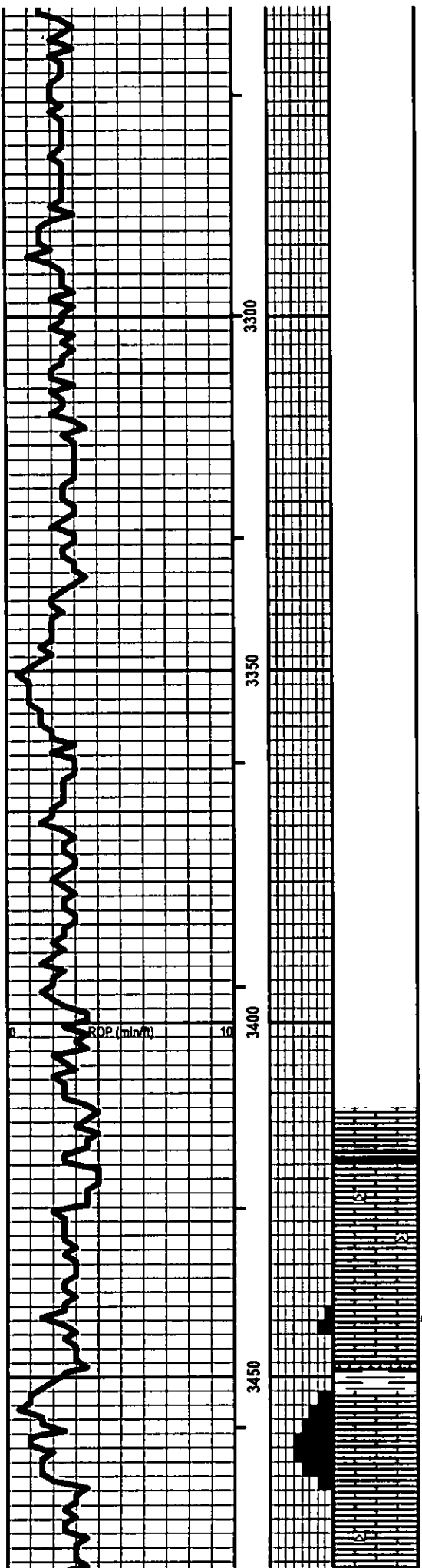
NO SAMPLES - LITHOLOGY INFERRED

BASE OF ANHY 1606 (+659)

DISPLACE MUD AT 2,978'

Vs: 56, Wt: 8.8,  
 YP: 25, Gels: 14/22,  
 pH: 10.5, WL: 8.8,  
 Chl: 5000, Sol: 3.3,  
 LCM: 2#

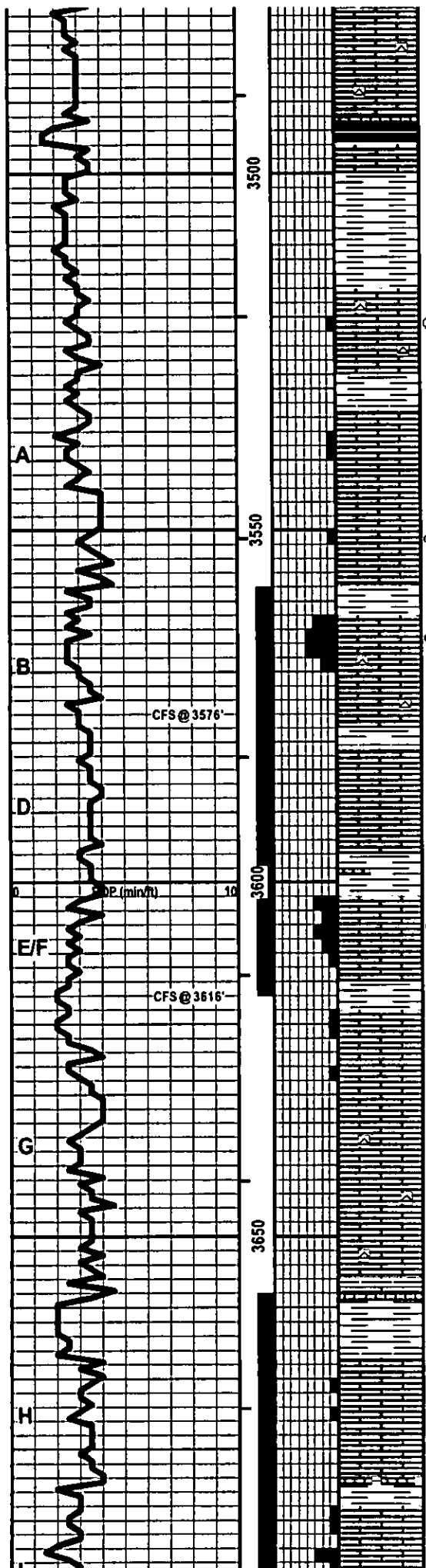
TOPEKA 3238 (-973)



LS - LT GY / CRM / TAN, MOT IN PT, VF / F XLN, FOSS IN PT, SCAT CHKY, PRED DNS, NS W/ SCAT SH - BLK, CARB W/ SCAT CHT - LT GY

LS - CRM / SCAT TAN, VF / F XLN, FOSS, P / SCAT F INTXLN POR, NSFO, NO ODOR, SCAT SPTY STN

LS - CRM / TAN, F XLN, SCAT M / C REXLN CALC, FOSS IN PT, F / SCAT G INTXLN + PPT POR, SCAT VUG POR, SCAT OILY FILM, NSFO, FT ODOR, SCAT SPTY STN



LS - TAN / BRN / SCAT CRM, VF / F XLN, SCAT FOSS, CHKY IN PT, PRED DNS, NS W/ CHT - LT / MED GY, FOSS IN PT

SH - BLK, CARB W/ LS - TAN / SCAT BRN, F XLN, FOSS IN PT, PRED DNS, NS W/ SH - GY / GRN

LS - CRM / WHT, VF / F XLN, SL FOSS, SCAT P / NO INTXLN POR, SCAT CHKY, PRED DNS, NSFO, V FT ODOR, SCAT SPTY STN W/ SCAT CHT - WHT / LT GY

LS - CRM / SCAT TAN, F XLN, SCAT M REXLN CALC, FOSS, OOL IN PT, VP / NO INTXLN POR, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN / SCAT BRN, VF / F XLN, FOSS, OOL IN PT, TR P VUG + PPT POR, CHKY IN PT, PRED DNS, TR OILY FILM, NO ODOR

LS - CRM / TAN, F XLN, TR M REXLN CALC, CHTY IN PT, F / P INTXLN POR IN PT, SCAT VUG + PPT POR, FSFO + GB, F ODOR, SPTY / SCAT SAT STN

LS - LT GY / CRM, VF / SCAT F XLN, OOL IN PT, SL FOSS, CHKY IN PT, PRED DNS, NS

LS - CRM, F / SCAT M XLN, OOL, FOSS IN PT, F / PINTXLN + INTOOL POR IN PT, SL / F SFO, SSGB, F ODOR, SPTY / SCAT SAT STN

LS - CRM / WHT, VF / F XLN, OOL IN PT, P / SCAT F OOM POR IN PT, SCAT P LEACHED POR, NSFO, NO ODOR, SCAT SPTY DK BRN / BLK STN

LS - CRM / TAN, VF / F / CRYPTO XLN, SCAT OOL, CHKY IN PT, PRED DNS, NS W/ CHT - WHT / LT GY / CRM

LS - CRM / TAN, VF / F XLN, TR OOL, TR P PPT POR, TR VP INTXLN POR, SCAT CHKY, PRED DNS, TR OILY FIL, NSFO, V FT ODOR, TR SPTY STN

LS - CRM / WHT, F XLN, SCAT FOSS, OOL IN PT, SCAT P / F VUG + INTXLN POR, SCAT F OOM POR, SL / G SFO, SSGB, F ODOR, SPTY / SAT STN IN PT

HEEBNER 3493 (-1228)

Vis: 56, Wt: 8.8

TORONTO 3516 (-1251)

LANSING 3533 (-1268)

DST #1: 3,558' - 3,616' (LKC B-F)

30"-60"-30"-60"

IF: Good blow - BOB in 10 min.

ISI: No blow back

FF: Good blow - BOB in 14 min.

FSI: No blow back

RECOVERY: 500' Total Fluid:

190' MW w/ SO (75% W, 25% M)

310' Water (100% W)

Chlorides: 50,000 ppm

SIP: 589-587

HP: 1697-1666

FP: 32-165, 168-259 BHT: 115

Vis: 54, Wt: 9.1,  
YP: 26, Gels: 14/24,  
pH: 10.5, WL: 8.0,  
Cht: 6000, Sol: 5.3,  
LCM: 2#

DST #1 @ 3,616'

PIPE STRAP @ 3,616': LONG 0.07'

ORLG WITH BIT #3: 7-7/8" CONV RR  
HTC-GX20C; JETS: 14-14-14

DST #2: 3,658' - 3,702' (LKC H4)

30"-60"-45"-60"

IF: Weak blow - building to 5.5 in.

ISI: No blow back

FF: Good blow - BOB in 9 min.

FSI: No blow back

RECOVERY: 325' GIP & 45' Total Fluid:

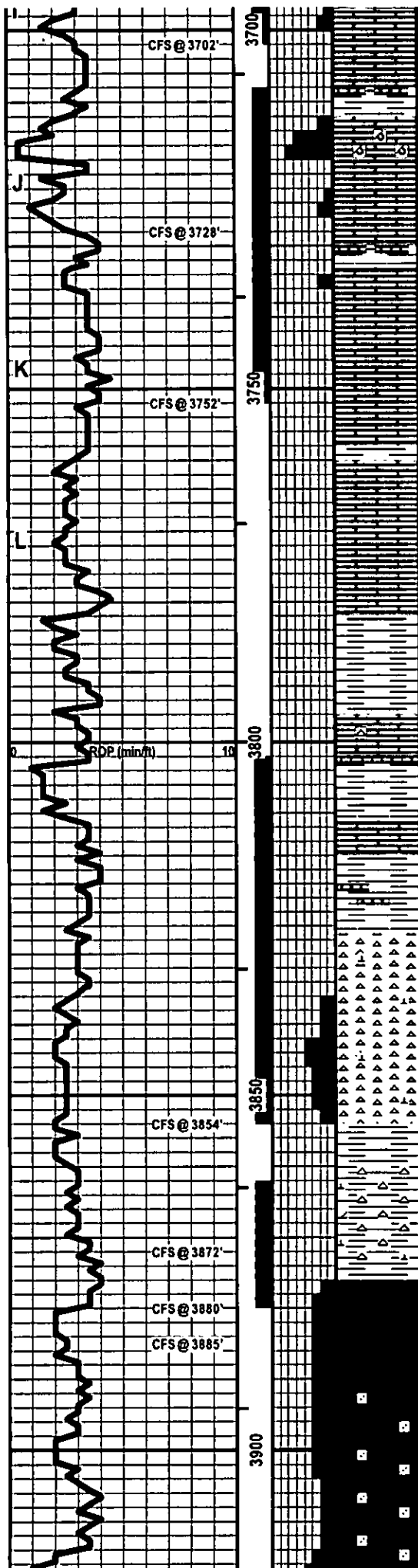
45' HO&GCM (20% G, 30% O, 25% M)

SIP: 398-318

HP: 1798-1742

FP: 25-38, 27-39 BHT: 113

Vis: 54, Wt: 9.1,  
YP: 28, Gels: 12/22,  
pH: 9.5, WL: 8.8,  
Cht: 10000, Sol: 5.3,



LS - LT GY / CRM, F XLN, OOL, F / G OOM POR, P / G INTXLN POR, F / G SFO + GB, F ODOR, SPTY / SAT LT / DK BRN STN, SCAT BARR POR, SL S GILS

LS - CRM, VF / F XLN, OOL IN PT, SCAT P / TR F INTOOL + INTXLN POR, CHKY IN PT, PRED DNS, SL / SCAT F SFO + OILY FILM, FT ODOR, SCAT SPTYSTN

LS - CRM / TAN, VF / F XLN, SCAT CRYPTO XLN, SCAT FOSS, TR OOL, TR P INTXLN POR, SCAT CHKY, PRED DNS, NS

SH - GY / GRN / BRN / RED W / LS - CRM / GY, VF / F XLN, SCAT M REXLN CALC, SL FOSS + OOL, CHTY IN PT, PRED DNS, NS

LS - GY / CRM, F / CRYPTO XLN, OOL, ARGIL IN PT, PRED DNS, NS W / SH - GY / GRN / BRN

CHT - GY / CRM / WHT / TAN / YEL, CALC IN PT, VT / SL WEATH IN PT, SL SFO + OILY FILM, FT ODOR, SCAT SPTY STN

CHT - GY / CRM / WHT / TAN / YEL, CALC IN PT, SL / MOD WEATH, TRIP IN PT, SL / F SFO + OILY FILM, SSGB, F ODOR, SPTY / SCAT SAT STN

PRED SH - RED / BRN / GY / GRN, AREN / SLTY IN PT W / CHT - VARICOL, PRED VT, TR WEATH W / SCAT DOLO + LS FRAG, NSFO, NO ODOR, SCAT SPTY DK BRN / BLK STN

3,880' CFS: DOLO - CRM / TAN, F / M XLN, SUCR IN PT, RHOMBIC, P / F INTXLN + VUG POR, SL / F SFO + GB, F ODOR, SPTY BRN STN IN PT

3,885' CFS: DOLO - CRM / TAN / SCAT LT GY, F / M XLN, SUCR IN PT, RHOMBIC, TR GLAUC, P / F INTXLN + VUG POR, SL / F SFO IN PT, SCAT PSO / BARR, F ODOR, SPTY STN IN PT

DOLO - CRM / TAN / SCAT LT GY, F / M XLN, SUCR IN PT, RHOMBIC, GLAUC IN PT, SL / MOD AREN, P / G INTXLN + VUG POR, SSFO, FS OILY FILM, SCAT GILS, MOD AMT BARR POR, F ODOR, SCAT SPTY STN

DOLO - CRM / TAN / SCAT LT GY, F / M XLN, SUCR IN PT,

DST #2 @ 3,702'

DST #3: 3,708' - 3,752' (LKC J-K)  
30"-60"-45"-60"

IF: Weak blow - building to 5 in.

ISI: No blow back

FF: Weak blow - building to 5.5 in.

FSI: No blow back

RECOVERY: 225' GIP & 75' Total Fluid:

5' CO (100% O); Gravity: 31 API

60' OGCWM (10% G, 15% O, 15% W, 60% M)

10' OCMW (5% O, 70% W, 25% M)

Chlorides Rec: 46,000 ppm

SIP: 399-393

HP: 1786-1767

FP: 25-43, 44-63

BHT: 112

DST #3 @ 3,752'

Via: 53, Wt: 9.0

**BASE OF KC 3782 (-1517)**

DST #4: 3,802' - 3,854' (Marm Chert)  
30"-60"-45"-60"

IF: Weak blow - building to 4.5 in.

ISI: No blow back

FF: Weak blow - bldg to BOB in 45 min.

FSI: No blow back

RECOVERY: 310' GIP & 186' Total Fluid:

62' CO (100% O); Gravity: 41 API

62' MCGO (10% G, 50% O, 40% M)

62' HO&GCM (10% G, 30% O, 60% M)

SIP: 816-791

HP: 1848-1796

FP: 23-54, 61-93

BHT: 116

**MARMATON CHERT 3827 (-1562)**

Via: 49, Wt: 9.2,  
YP: 26, Gels: 14/20,  
pH: 9.0, WL: 9.6,  
Chl: 7000, Sol: 6.0,  
LCM: 1.5#

DST #4 @ 3,854'

**ARBUCKLE 3876 (-1611)**

DST #5 @ 3,880'

DST #5: 3,862' - 3,880' (Arbuckle)  
30"-60"-30"-60"

IF: Weak blow - building to 1.25 in.

ISI: No blow back

FF: Surface blow throughout

FSI: No blow back

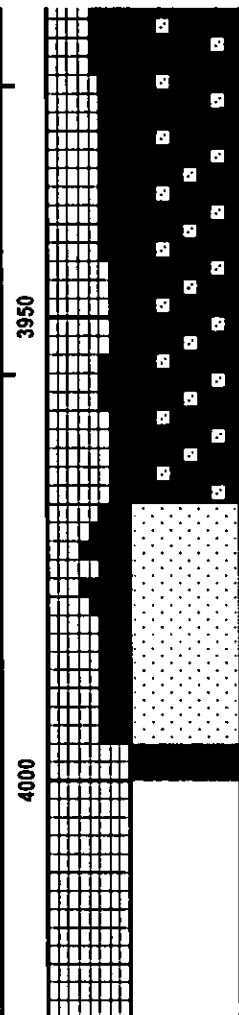
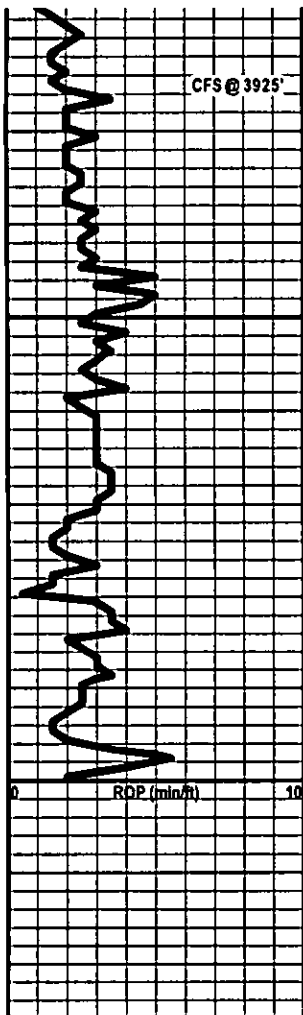
RECOVERY: 40' Total Fluid:

1' CO (100% O)

39' HOCM (40% O, 60% M)

SIP: 1017-845

HP: 1877-1875



RHOMBIC, GLAUC IN PT, MOD AREN, P/G VUG + INTXLN POR, FS GILS + OILY FILM, ABNT BARR POR, V FT ODOR, MOD BLK GILS STN

DOLO - CRM / TAN / SCAT LT GY / SCAT PINK, F / M XLN, SUCR IN PT, RHOMBIC, MOD AREN, P/G VUG + INTXLN POR, SCAT GILS, ABNT BARR POR, V FT ODOR, SCAT GILS STN W/ MOD AMT UNCONS QTZ GR, F / C

DOLO - CRM / TAN / SCAT LT GY / SCAT PINK, F / M XLN, SUCR IN PT, RHOMBIC, MOD AREN, P/G VUG + INTXLN POR, PRED NS W/ MOD AMT UNCONS QTZ GR, F / C

SS - CLSTRS, LT GY / TRANS, F / C QTZ GR, FW SRTD, SA / R, DOLO IN PT, F / G INTGR POR, NS W/ ABNT UNCONS QTZ GR, F / VC / PEBB, SA / R, PRED TRANS, SCAT OPQ

PRED UNCONS QTZ GR, AS ABOVE

GRANITE WASH / WEATH GRANITE - ANG QTZ, WEATH FELD, SCAT / MOD MICA

**TOTAL DEPTH 4000 (-1735)**

FP: 24-30, 32-35

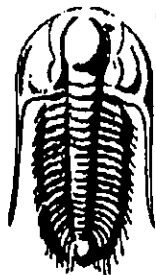
BHT: 114

Vis: 51, Wt: 9.2,  
 YP: 28, Gels: 14/26,  
 pH: 9.5, WL: 8.8,  
 Cht: 8000, Sol: 6.0,  
 LCM: 2.5#

**REAGAN SAND 3972 (-1707)**

Vis: 52, Wt: 9.2

**GRANITE WASH 3996 (-1731)**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Dane G Hansen Trust**

PO Box 187  
Logan KS 67646

ATTN: Richard Wallgren Sr

**3-14s-20w Ellis,KS**

**Dinkel #11**

Start Date: 2011.07.13 @ 22:00:32

End Date: 2011.07.14 @ 04:15:56

Job Ticket #: 43623                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.23 @ 10:29:38

Dane G Hansen Trust  
Dinkel #11  
3-14s-20w Ellis,KS  
DST # 5  
Arbuckle  
2011.07.13





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Dane G Hansen Trust

**Dinkel #11**

PO Box 187  
Logan KS 67646

**3-14s-20w Ellis,KS**

Job Ticket: 43623

**DST#: 5**

ATTN: Richard Wallgren Sr

Test Start: 2011.07.13 @ 22:00:32

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:49:27

Time Test Ended: 04:15:56

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3862.00 ft (KB) To 3880.00 ft (KB) (TVD)**

Reference Elevations: **2265.00 ft (KB)**

Total Depth: **3880.00 ft (KB) (TVD)**

**2257.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **8.00 ft**

**Serial #: 6625**

**Inside**

Press@RunDepth: **35.54 psig @ 3863.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.07.13**

End Date:

**2011.07.14**

Last Calib.: **2011.07.14**

Start Time: **22:00:32**

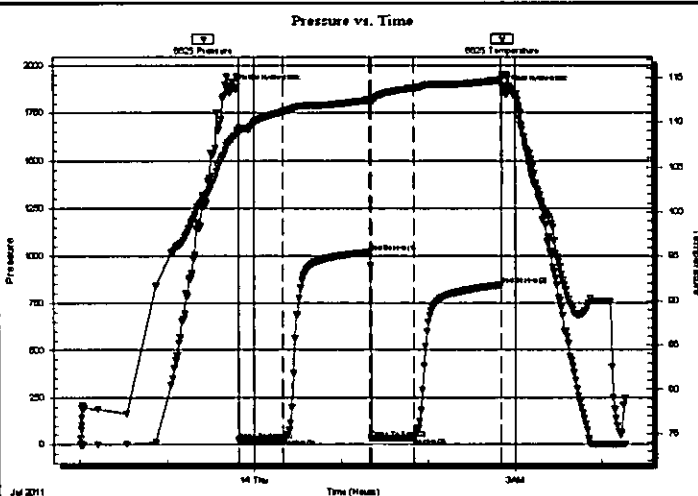
End Time:

**04:15:56**

Time On Btm: **2011.07.13 @ 23:46:57**

Time Off Btm: **2011.07.14 @ 02:52:56**

**TEST COMMENT:** 30-IFP-w k bl 1/4"to 1 1/4"bl  
60-ISIP-no bl  
30-FFP-no bl  
60-FSIP-no bl to surface bl



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1877.04	108.52	Initial Hydro-static
3	24.01	108.85	Open To Flow (1)
33	30.57	111.18	Shut-In(1)
93	1017.89	112.50	End Shut-In(1)
94	32.89	112.27	Open To Flow (2)
123	35.54	113.82	Shut-In(2)
183	845.97	114.70	End Shut-In(2)
186	1875.25	115.31	Final Hydro-static

### Recovery

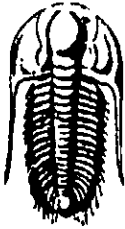
Length (ft)	Description	Volume (bbl)
39.00	HOCM 40%O60%M	0.27
1.00	CO	0.01

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Dane G Hansen Trust

**Dinkel #11**

PO Box 187  
Logan KS 67646

**3-14s-20w Ellis,KS**

Job Ticket: 43623

**DST#: 5**

ATTN: Richard Wallgren Sr

Test Start: 2011.07.13 @ 22:00:32

**Tool Information**

Drill Pipe:	Length: 3830.00 ft	Diameter: 3.80 inches	Volume: 53.72 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 53.87 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3862.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3835.00	
Shut In Tool	5.00			3840.00	
Hydraulic tool	5.00			3845.00	
Jars	5.00			3850.00	
Safety Joint	2.00			3852.00	
Packer	5.00			3857.00	28.00 Bottom Of Top Packer
Packer	5.00			3862.00	
Stubb	1.00			3863.00	
Recorder	0.00	6625	Inside	3863.00	
Recorder	0.00	8700	Outside	3863.00	
Perforations	14.00			3877.00	
Bullnose	3.00			3880.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dane G Hansen Trust

**Dinkel #11**

PO Box 187  
Logan KS 67646

**3-14s-20w Ellis, KS**

Job Ticket: 43623

**DST#: 5**

ATTN: Richard Wallgren Sr

Test Start: 2011.07.13 @ 22:00:32

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
39.00	HOCM 40% O60%M	0.274
1.00	CO	0.014

Total Length: 40.00 ft      Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

