

ORIGINAL

FORM MUST BE TYPED

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 4058
Name: American Warrior Inc.
Address: PO Box 399'
Garden City,
City/State/Zip KS. 67846
Purchaser: ANR
Operator Contact Person: Kevin Wiles Sr
Phone () 316-275-2963
Contractor: Name: Duke Drilg.
License: 5929
Wellsite Geologist: Alan Downing
Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, USW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
12-18-99 12-31-99 1-17-2000
Spud Date Date Reached TD Completion Date

API NO. 15- 033-21,0440000
County Comanche
170N-170W-SESESE Sec. 4 Twp. 33s Rge. 18 ^E _W
500' Feet from (S) (circle one) Line of Section
500' Feet from (E) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)
Lease Name Carthrae Well # 1-4
Field Name Wildcat
Producing Formation MISS.
Elevation: Ground 2068' KS 2081'
Total Depth 5300' PSTD 5257'
Amount of Surface Pipe Set and Cemented at 644' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cat.

Brilling Fluid Management Plan Att. 1, 6-23-00 (Data must be collected from the Reserve Pit)
Chloride content 4800 ppm Fluid volume 600 bbls
Dewatering method used Hauled Off-Site
Location of fluid disposal if hauled offsite: _____
Operator Name KBW Oil & Gas
Lease Name Harmon SWD License No. 5993
NW/4 Quarter Sec. 11 Twp. 33 S Rng. 20 _W
County Comanche Docket No. 98329

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature [Signature]
Title Production Supt. Date 5-16-2000
Subscribed and sworn to before me this 16th day of May, 2000
Notary Public [Signature]
Date Commission Expires _____

NOTARY PUBLIC State of Kansas
MARY L. WATTS
My Appt. Exp. 08-07-2002

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCS SWD/Rep NGPA
 KGS Plug Other (Specify)

(L)

X

Operator Name American Warrior Inc Lease Name Carthrae Well # 1-4
 East
 Sec. 4 Twp. 33S Rge. 18 West
 County Comanche

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	heebner	4314'	-2233
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	lansing	4512'	-2431
List All E.Logs Run:		drum	4747'	-2666
		kc A	4859'	-2778
		kc B	4926'	-2845
		BKC	5010'	-2929
		Marmaton	5022'	-2941
		Pawnee	5112'	-3031
		Fort Scott	5148'	-3067
		Cherokee	5158'	-3077
		miss.	5222'	-3141

Dual-Ind, -Sonic-Micro, -CDNL/GR

CASING RECORD <input type="checkbox"/> New <input checked="" 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	12 1/2"	8-5/8"	24#	644'	ATW	325	3%cc-2%gel 1/4#-flocele
Production	7-7/8"	5 1/2"	15.5#	5299'	mid-con11	150	5%halad322 5%gas stop 1/8#flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives	
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> 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)	
		Amount	Depth
2	5225'-5230'	2750gals 20% fe acid	5225 5230'

TUBING RECORD	Size <u>2-3/8'</u>	Set At <u>5178'</u>	Packer At <u>5180'</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SVD or Inj.	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
<u>SHUT-IN</u>				
Estimated Production Per 24 Hours	Oil SI Bbls.	Gas SI Mcf	Water SI Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval: 5225-5230

JOB SUMMARY

ORDER NO. 70006

15-033-21044-000 1-1-00

REGION North America	NWA/COUNTRY USA	BDA / STATE KS	COUNTY COMANCHE
MBU ID/EMP # 101304	EMPLOYEE NAME TYLOR DAVIS	PSL DEPARTMENT 22	ORIGINAL
LOCATION Liberal KS	COMPANY AMERICAN WARRIOR	CUSTOMER REP / PHONE TED FUSCH	
TICKET AMOUNT	WELL TYPE 01	API / UWI #	
WELL LOCATION L4nd	DEPARTMENT 22	JOB PURPOSE CODE 025	
LEASE / WELL # CARRAGE	SEC / TWP / RNG		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
T. DAVIS	106304						
S. FUSCH	106099						
S. OWENS	106125						

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54218-78202	160						
53336-77031	80						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
1-1-00	000	1-1-00	0330	1-1-00	0500
					0900

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U.	15.5	5 1/2	KAS	5303
Liner					
Liner					
Tbg/D.P.					
Tbg/D.P.					
Open Hole					SHOTS/FT
Perforations					
Perforations					
Perforations					

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
		RECEIVED		L.M.F.
		STATE CORPORATION COMMISSION		
		MAY 19 2000		5 1/2
		CONSERVATION DIVISION		L.S.
		Wichita, Kansas		
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE *S.J*

FEET _____ Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GA
1	150	pmc	13	.576 H419d 722, .576 G45510R 1/8" Fluid	1.90	13

Circulating _____	Displacement _____	Preflush: Gal - BBI <i>30</i>	Type <i>Synthetic</i>
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI Gal <i>51.2</i>
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI <i>51</i>	
		Total Volume Gal - BBI _____	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

COPY

TICKET No. 1

CUSTOMER: American Warrick
 WELL: Carbrac
 DATE: 1-1-00
 PAGE: 1 OF 1

FORM 1911 R-9

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			160 mi/0.50					3.65	584.00
000-119		1			M. large cement crew					2.15	344.00
001-011		1			Cement 105.00	5300			6 hr		2422.00
045-050		1			COMPLAINT				1 Job		760.00
000-150		1			Environmental Surcharge				1 Job		55.00
015-317		1			SUPPLIES	20	5x		Eq 1/10	112.00	2240.00
504281		1			Mud - 2 pipe line	150	5x		Eq 1/10	17.87	2680.50
507-970		1			D.A. 3000	32	1/2		Eq 1/10	5.15	1648.00
507-714		1			Floater	19	1/2			2.19	415.10
507-415		1			GASSOP	44	1/2			41.30	1817.20
507-775		1			Hoist 322	44	1/2			7.70	3388.00
508191		1			Garrison	750	1/2		Eq 1/10	.58	435.00
500-707		1			Bulk soil charge	175	1/2			1.66	290.50
019-250		1			PLUG CONTAMINANT	623	1/2			1.25	778.75
						5 1/2			1 Eq		594.00
SERVICE CHARGE											
MILEAGE CHARGE											
TOTAL WEIGHT											
LOADED MILES											
CUBIC FEET											
TON MILES											

RECEIVED
 STATE CORPORATION COMMISSION

MAY 19 2000
 CONSERVATION DIVISION
 Wichita, Kansas

ORIGINAL

CONTINUATION TOTAL 19277.00

JOB LOG

ORDER NO. 70006

REGION North America	NWA/COUNTRY USA	BDA / STATE KS	COUNTY
MBU ID / EMP # 111773 111307	EMPLOYEE NAME Tye Scott	PSL DEPARTMENT 3-1	ORIGINAL
LOCATION L 10101	COMPANY Halliburton	CUSTOMER REP / PHONE Tye Scott	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION L 10101	DEPARTMENT 2.2	JOB PURPOSE CODE 039	
LEASE / WELL # 111773	SEC / TWP / RNG		

HES EMP. NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP. NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP. NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP. NAME/EMP#/(EXPOSURE HOURS)	HRS
Tye Scott 111773	10.0						
Tye Scott 111307	11.0						
Tye Scott 111773	10.0						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0100							Called out for job
	0330							on loc. try taking off top
	0430							start 5th csg.
	0655							cid on BOM hook up 5 1/2 pc 2 line down
	0728							berline w/1117
	0748							cin to pit
	0755							Thru csg hook iron to p.t.
	0757					3000		psi test
	0800	6.0	5		✓	250		pump H2O spacer
	0801	6.0	20		✓	250		pump super flush
	0805	6.0	5		✓	150		pump H2O spacer
	0811	2.0	5			0		plug rest of main hole
	0820	6.5	51		✓	320		pump 150lb PVC 14F 13#
	0829	0	81		✓	0		shut down drop plug
	0833	6.5	125		✓	100		pump disp.
	0848	6.5	125		✓	220		9.0 bbls in life cement
	0852	2.0	125		✓	470		11.8 bbls in 310 ft hole
	0855	2.0	125		✓	500		1500 lbs plug
	0916					1500		release cement - 111773
	0900							Job over
								THANKS FOR CALLING HES.
								Tye Scott & Staff

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MAY 19 2000



CEMENTING LOG

STAGE NO.

Date 12-18-99 District med. lods Ticket No. 2310
 Company American Warrior Rig Duke #7
 Lease Cachtrae Well No. 1-4
 County Comanche State Ks.
 Location Coldwater, ss to Tot Field 4-32-18
274E-n/s

CASING DATA: PIA Squeeze
 Surface 8 5/8 Intermediate Production Liner
 Size 8 5/8 Type _____ Weight 24 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.60 Collars Xhole
 Open Hole: Size 12 1/4 I.D. 6.50 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70
 Open Hole: Bbls/Lin. ft. 14.58 Lin. ft./Bbl. 6.8599
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. 0.735 Lin. ft./Bbl. 13.6037
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA.

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____
 LEAD: Pump Time _____ hrs. Type ALW+3%
1/4#Fl-Seal Excess _____
 Amt. 225 Skys Yield 1.98 ft³/sk Density 12.5
 TAIL: Pump Time _____ hrs. Type CLASSA
3%CC+2%Gel Excess _____
 Amt. 100 Skys Yield 1.34 ft³/sk Density 15.2
 WATER Lead 10.9 gals/sk Tail 6.5 gals/sk Total _____

Pump Trucks Used 343 Justin
 Bulk Equip. 240 David

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type Baffle Plate Depth _____
 Centralizers: Quantity 1 Plugs Top Rubber Btm. _____
 Stage Collars _____
 Special Equip. 2-Baskets
 Disp. Fluid Type Fresh H₂O Amt. 38 1/4 (lbs. Weight 8.34
 Mud Type Native Weight 9.1

COMPANY REPRESENTATIVE Ken McGuire

CEMENTER Larry Dreiling

TIME	PRESSURES PSI		FLUID PUMPED DATA			RE MARKS
	AM	PM	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
4:30						Pipe on Bottom - Break Circ. mix + Pump 225sx ALW+3%cc 1/4#Fl-Seal
4:35	200		80		6	
			24		3/2	
	200					100 sx. CLASSA+3%CC+2%Gel Release Plug Pump + Displace Plug w/ Fresh H ₂ O Bump Plug Shut In Cement Old Circ.
5:10	300		38 1/4		4	

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MAY 19 2000

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

ALLIED CEMENTING CO., INC. 2310

Federal Tax I.D.# 48-0727860

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

SERVICE POINT
med lodge ks

DATE	SEC	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
12-18-99	4	235	18W	9:30 A.M.	1:15 P.M.	4:15 P.M.	5:30 P.M.
LEASE <u>ACTHRA</u>		WELL # <u>1-4</u>		LOCATION <u>Coldwater, SS to Tot</u>		COUNTY <u>Comanche</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)		<u>2 3/4 C. N/S</u>					

CONTRACTOR Duke Drilling #7
 TYPE OF JOB Surface Csg.
 HOLE SIZE 12 1/4 T.D. 6.50
 CASING SIZE 8 7/8 x 24 DEPTH 6.45
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 300 MINIMUM 150
 MEAS. LINE _____ SHOE JOINT 3/4-5/8
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 3 8/4 BHs Fresh H₂O

OWNER American Warrior
 CEMENT
 AMOUNT ORDERED 2259x. ALW + 3%cc
1/4" Flo-Seal 100sx. Class A + 3%cc
2% Gel.

COMMON A	100	@ 6.35	635.00
POZMIX		@	
OEL	2	@ 9.50	19.00
CHLORIDE	10	@ 29.00	290.00
<u>ALW</u>	<u>225</u>	@ <u>6.00</u>	<u>1350.00</u>
<u>FLO-SEAL 56#</u>		@ <u>1.15</u>	<u>64.40</u>
		@	
		@	
		@	
HANDLING	<u>325</u>	@ <u>1.05</u>	<u>341.25</u>
MILEAGE	<u>225 x 45</u>	.04	<u>585.00</u>

EQUIPMENT
 PUMP TRUCK CEMENTER Larry Drilling
 # 3113 HELPER Justin Hact
 BULK TRUCK
 # 240 DRIVER Dave West
 BULK TRUCK
 # _____ DRIVER _____

TOTAL \$ 3274.65

REMARKS:

SERVICE

Pipe on Bottom - Break Circ.
mix + Pump 2259x. ALW + 3%cc
+ 1/4" Flo-seal 100sx. Class A + 3%cc
2% Gel. Release Plug Pump + Displace
Plug w/ 3 8/4 BHs. Fresh H₂O. Pump
Plug. Shutt In. Cement Did Circ.

DEPTH OF JOB	<u>6.45'</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>470.00</u>
EXTRA FOOTAGE	<u>345'</u>	@ <u>.43</u>	<u>148.35</u>
MILEAGE	<u>45</u>	@ <u>2.85</u>	<u>128.25</u>
PLUG Rubber	<u>4 3/4"</u>	@ <u>90.00</u>	<u>90.00</u>

TOTAL \$ 836.60

CHARGE TO: American Warrior
 STREET P.O. Box 399
 CITY GARDEN CITY STATE KANSAS ZIP 67846

FLOAT EQUIPMENT

1- Baffle Plate	@ 45.00	45.00
1- Centralizer	@ 30.00	30.00
2- Baskets	@ 150.00	300.00

TOTAL \$ 375.00

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE X Kenneth K. McGuire

TAX _____
 TOTAL CHARGE \$ 4486.25
 DISCOUNT 897.25 IF PAID IN 30 DAYS
 Net \$ 3589.00
 X KENNETH K. MCGUIRE
 PRINTED NAME

RECEIVED
 MAY 19 2000
 STATE CORPORATION COMMISSION
 CONSERVATION DIVISION
 Wichita, Kansas

ORIGINAL

Kevin

GEOLOGIC
REPORT
LOG

COMPANY American Warrior, Inc.

WELL Carthrae # 1-4

FIELD _____

LOCATION 170'N-170'W-SE-SE-SE

SEC. 4 TWP. 33s RGE. 18W

COUNTY Comanche

STATE Kansas

OPERATOR American Warrior, Inc.

CONTRACTOR Duke Drilling Rig #7

COMM: 12-18-99 COMP: 12-31-99

CASING RECORD

SURF: 8 5/8-644 PROD: 5 1/2-5300'

TOTAL DEPTH DRILLERS: 5300

TOTAL DEPTH LOG _____

PRODUCTION _____

ELEVATION KB 2081
DF _____
GL 2067

Drilling Measured From: 2081 KB

Samples Saved From 4200 To: TD

Drilling Time From 4200 To: TD

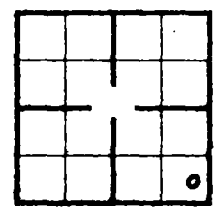
Samples Examined From: 4200 To: TD

Geological Supervision From 4200 To Total Depth

Wellsite Geologist Alan Downing

Electrical Surveys KOSOL

Dual Induction - Sonic
Micro Log - CNL/GR



CONSERVATION DIVISION

MAY 19 2000

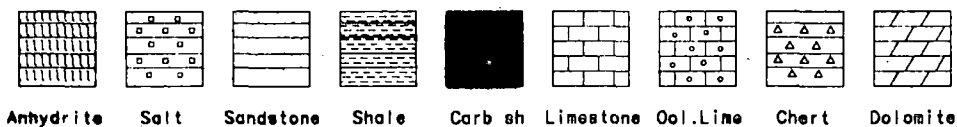
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STATE CORPORATION COMMISSION

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
<u>HEEBNER</u>	<u>4310</u>	<u>4314</u>	<u>-2233</u>	<u>-5</u>
<u>Lansing</u>	<u>4513</u>	<u>4512</u>	<u>-2431</u>	<u>FL</u>
<u>Drum</u>	<u>4748</u>	<u>4747</u>	<u>-2666</u>	<u>-3</u>
<u>RC "A"</u>	<u>4859</u>	<u>4859</u>	<u>-2778</u>	<u>-2</u>
<u>RC "B"</u>	<u>4926</u>	<u>4926</u>	<u>-2845</u>	<u>-3</u>
<u>BKC</u>	<u>5009</u>	<u>5010</u>	<u>-2929</u>	<u>-4</u>
<u>Marmaton</u>	<u>5020</u>	<u>5022</u>	<u>-2941</u>	<u>-6</u>
<u>Lawney</u>	<u>5113</u>	<u>5112</u>	<u>-3031</u>	<u>-8</u>
<u>Fort Scott</u>	<u>5149</u>	<u>5148</u>	<u>-3067</u>	<u>-4</u>
<u>Cherokee Shale</u>	<u>5160</u>	<u>5158</u>	<u>-3077</u>	<u>-3</u>
<u>Mississippian</u>	<u>5221</u>	<u>5222</u>	<u>-3141</u>	<u>+44</u>

REFERENCE WELL FOR STRUCTURE American Warrior, Inc
Wagon #1-9 1170'FNL - 1130'FEL Sec. 9-33s-18W
Comanche Co., Ks.

LEGEND



DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases

5" 10" 15" 20" 25"



DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710

4200

50

4300

50

HEEBNER
4310(-2224)

Ls: wht - crm fkn sdy
inc lusion - wht. mgn
angul. Als

Ls: wht lt. qnz fkn

sh: Black - carb

Ls: tan f-vtkn alw v. DSE

sh: Black - carb

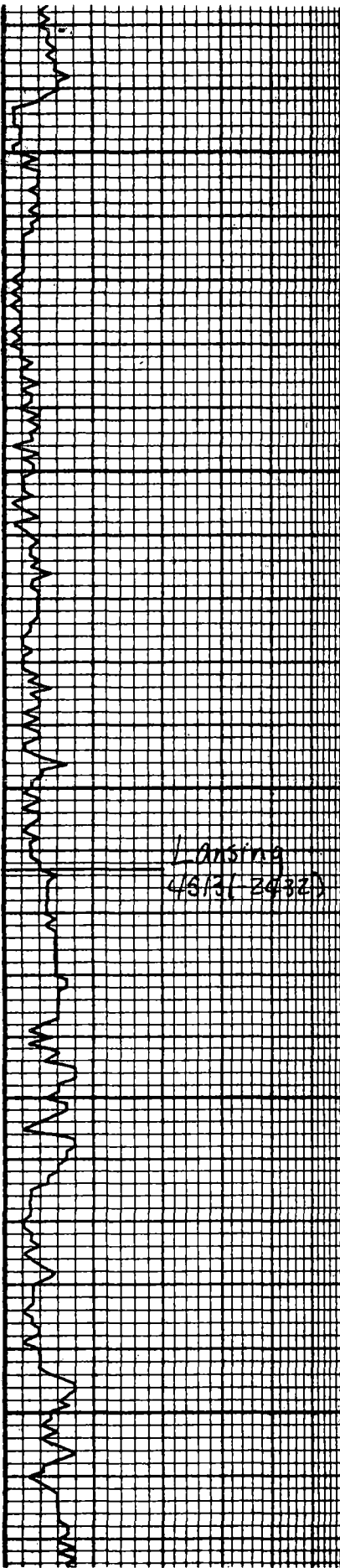
Ls: wht - crm fkn w/ pool
interkn sll. chalky to
DSDN

sn: gm - Brown

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4400

50

4500

Lansing
4613 (2432)

50

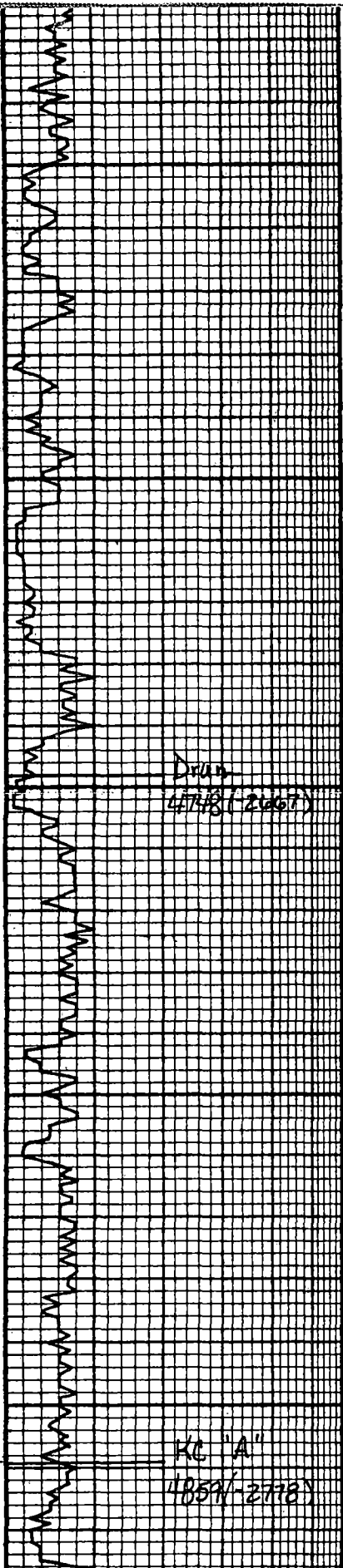
4600

<p>Ls: tan off wht tan DSE</p>
<p>ss. far. ang. w/ good integrat Nsg - shaly</p>
<p>Sh: gray - black - soft w/ stringers of wht/clr far ss - Ns.</p>
<p>ss: lt. gray far. ang w/ sorted w/ poor - fair integrat. of some silty w/ almost all having glauconitic inclusions along w/ mica chips. shales are lt. gray micaceous w/ some pyrite All w/ No show</p>
<p>ss + shales as above v. sandy - pyritic</p>
<p>Ls: wht. tan DSE silt. foss No App. ♂.</p>
<p>Ls: wht. lt. Tan tan w/ brcc. foss frag. inclusion (grey fossil. col.) Ns.</p>
<p>Ls: lt. gray tan v. col + foss. Ns. DSE</p>
<p>Ls: wht. lt. Tan tan, col + foss w/ good ♂. some silt subm matrix w/ some loosed SOC & towards base No show</p>
<p>Ls: Tan f. v. tan all v DSE some pyrite inclusions w/ Tan & chert.</p>
<p>Ls: Tan tan w/ some silt loss of Ns. poor integrat</p>
<p>Ls: Tan - lt. Brn - lt gray</p>

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50

4700

50

4800

50

f. v. tan all v. DSE

Ls: Tan lt-gry. f. v. tan all v. DSE Ns.

Ls: gray fxl w/ good interxin + coc p - vug p Ns. No Flour

Ls: gray fxl w/ good coc + vug p. silt subkn in part Ns

Ls: Tan - off wht w/ good interxin + vug p, v. silt. col Ns.
ch: qnl

Ls: Tan v. tan all v. DSE

Ls: Tan - lt. Brn w/ good interxin + vug - loss - coc p No snow gas - No flour. some v. tan silt col Brn Lst at Base Ns.

Ls: Dark Brn v. tan w/ drk Brn-gry Achert

sh: v. dark gray - Black

Ls: Tan fxl, silt. col w/ good coc + coc p No show oil w/ dull yellow flour.

Ls: wht. lt. Tan fxl No appd all DSE w/ some Lr grn v. tan loss Ls. fragmental

Ls: wht lt. Tan fxl - DSE

Ls: lt. Brn w/ fair coc + interxin of m. tan Ns - Becomes Brn v. tan v. DSE

Ls: Brn mixt good coc p interxin Ns.

Ls: wht f. v. tan all v. DSE w/ some wht interbedd clr. Achert

Ls: wht Tan f. v. tan w/ some lt. gray Achert Ns. all mostly DSE

sh: Black-carb

Ls: arm. fxl v. silt. col w/ poor coc p. silt subkn to matrix fair interxin. No show oil

100

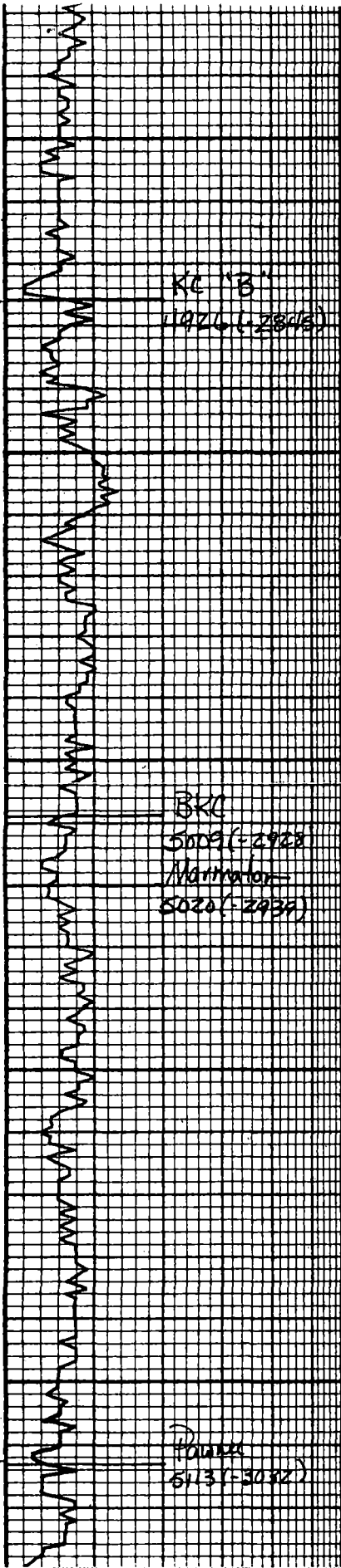
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10

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4900

50

5000

50

5100

KC 'B'
(1926-2845)

BKC
5009 (-2928)
Matmoron
5020 (-2939)

DST
5131 (-3082)

Ls: wht fkn. silt challe Ns
some v. silty

Ls: wht v. fin. v. finelyool all
V DSE

Sh: gray - Brown ind some
qm Ls stringers + few
ss. clusters Ns

sn: Black-carb

Ls: wht fknool w/siltoolf
Ns. friable. Ns

Ls: wht. fkn disie w/some
silt. subxn - challe.

Ls: wht. lt. qm foss v. tan
all v. DSE w/scales
v. dark ant - black-carb

Ls: Tan - f. v. tan all v. DSE
w/some drk Brown acter

w/scaff - gray - Black shale

Ls: Dark Brown v. tan w/
Dark Brownool acter

Ls: Cm fkn, v.ool. totalool
Beds v. DSE chert Brown
v.ool V DSE - shales Brown
gray

Ls: Brn drk tan v. tan v. foss
poor - fair foss & Ns
becomng silt challe.

Ls: Tan f. subxn w/some
Tan - orange specked
chert. Ns

Ls: Tan f. v. tan v. DSE
cherty

sh: Black-carb

Ls: wht. fkn, v. silt.ool
silt.ool interxn Ns.

sh: qm

Ls: wht fkn - subxn poor
interxn of Ns.

Ls: Tan - lt. Brn v. tan all
V DSE

sh: Black-carb

Ls: wht. f. subxn w/scaff
poor v. lite flour Ns

Ls: wht. f. subxn w/ood interxn

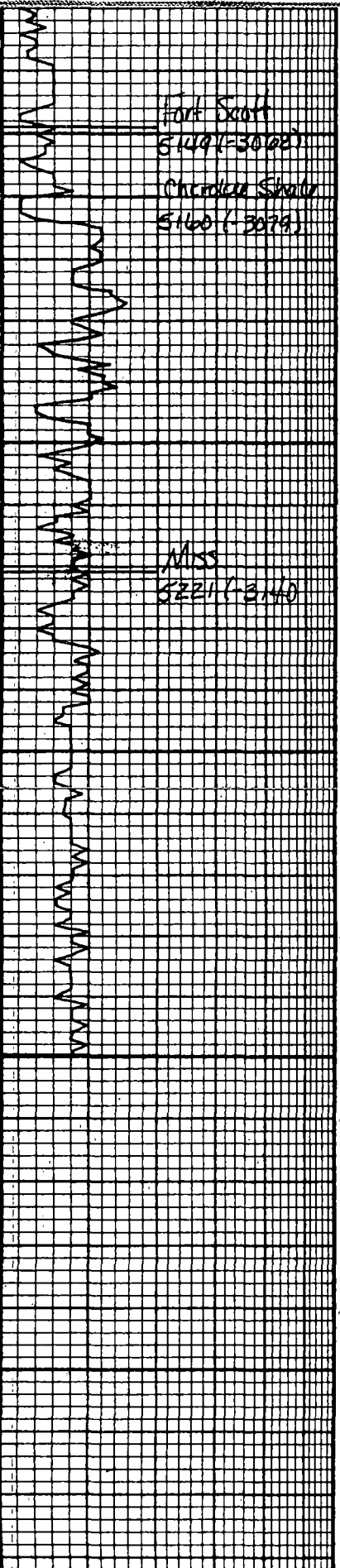
20

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DST #1
5107 - 5103
30-60-60-60
Blow: 808 2min
BTS 45xc 2nd open.



1

50

Fort Scott
S1491-3078

Cherokee Shale
S160-3079

5200

MISS
S221-3140

50

5300

50

47
φ. yellow flour. some bright yellow flour on cool wnt chert edges - NSFO

36
Ls: wnt f. in v. DSE, w/ some Edge Flour.

85
Ls: Tan f. in w/ some fair interst. w/ some tan-brn chert. silt. f. in. some bright yellow flour NSFO

46
Ls: Tan v. in all v. DSE w/ some tan chert.

Ls: Tan f. in w/ good interst. + Jug v. lit sfo No odor Nsg w/ fair yellow flour. lt. brn str. No odor

sn: Black

Ls: Tan f. v. in all v. DSE

Ls: Tan - con. lt. brn f. in w/ scatt cool d. - NSFO. lt. brn str. No odor w/ gray - Brn - tourmaline grains

56
Ls: wnt. f. m. in w/ fair interst. & silt. dolomite w/ fair chert. - NSFO - No odor.

Ls: wnt. f. m. in DSE w/ poor interst. & Ns

15
Ls: dolomite m. in chert w/ fair interst. & NSO. carrying wnt. chert. some gray shale

Ls: wnt. lt. gray f. v. in w/ scatt interst. & also lt. gray-amber chert. Ns. shaly and porous

Ls: wnt dolomite f. sub. in w/ silt. interst. - chaly in part cherty - shaly gray

Ls: wnt f. sub. in poor interst. Ns. chert & wnt.

R. Dowdy

rec: 85 drig mud

Final Flow:

10 min	12.3 mcf
20	25.8
30	27.5
40	28.8
50	31.7
60	33.2

IHP: 2397 #
IFP: 31-54 #
FFP: 39-53 #
BHP: 1845-1830 #
FHP: 2390
TEMP: 131° F.

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<p>5" 10" 15" 20" 25"</p> <p>DRILLING TIME Minutes/Foot</p> <p>Rate of Penetration Decreases </p>	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS

CONTRACTOR Duke Drilling Rig #7
 LEASE Carthrac # 1-4 IP _____
 ELEVATION 2081 KB RTD 5300

LOCATION 170'N-170'W SE-SE-SE
 SEC 4 TWP 33s RNG 18W
 COUNTY Comanche STATE Ks.

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