

25-25-21W

COPY

Computer Inventories



**ABERCROMBIE RTD, INC.**  
DRILLING CONTRACTOR

150 N. MAIN, SUITE 801 / WICHITA, KANSAS 67202 / 316-262-1841

API #15-057-20104-0001

HERRMAN 'C' #1 (OWWO)  
125 S SE NE, Sec. 25-25S-21W  
Ford Co., KS

DST #1 4673'-4708' (Cherokee) (Straddle Packers)  
30-45-60-45

Good blow off bottom of bucket in 1 1/2 minutes

Rec. 666' gas in pipe, 195' slightly oil & gas cut mud (10% gas, 1/2% oil, 89 1/2% mud), 189' gassy muddy oil (10% gas, 70% oil, 20% mud), 63' gas & mud cut oil (25% gas, 10% oil, 5% water, 60% mud), 63' gas & slightly mud cut oil (50% gas, 40% oil, 5% water, 5% mud)

IFPs 67-112      ISIP 515  
FFPs 134-213    FSIP 526

RECEIVED  
STATE CORPORATION COMMISSION

APR 20 1994

CONSERVATION DIVISION  
WICHITA, KANSAS

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name HERRMAN "B" #2 Test No. 1 Date 1/8/94  
Company ABERCROMBIE DRILLING INC Zone CHEROKEE  
Address 150 N MAIN #801 WICHITA KS 67202 Elevation 2279  
Co. Rep./Geo. STEVE FRANKAMP Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay 3  
Location: Sec. 25 Twp. 25S Rge. 21W Co. FORD State KS

Interval Tested 4673-4708 Drill Pipe Size 4.5" XH  
Anchor Length 35 Wt. Pipe I.D. - 2.7 Ft. Run 563  
Top Packer Depth 4668-4673 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4708 Mud Wt. 9.7 lb/Gal.  
Total Depth 4800 Viscosity 65 Filtrate 12

Tool Open @ 1:18 PM Initial Blow GOOD BLOW OFF BOTTOM IN 1 MINUTE 30 SECONDS

Final Blow OFF BOTTOM IN 8 MINUTES-4" BLOW ON FINAL SHUTIN

Recovery - Total Feet 510 Flush Tool? NO

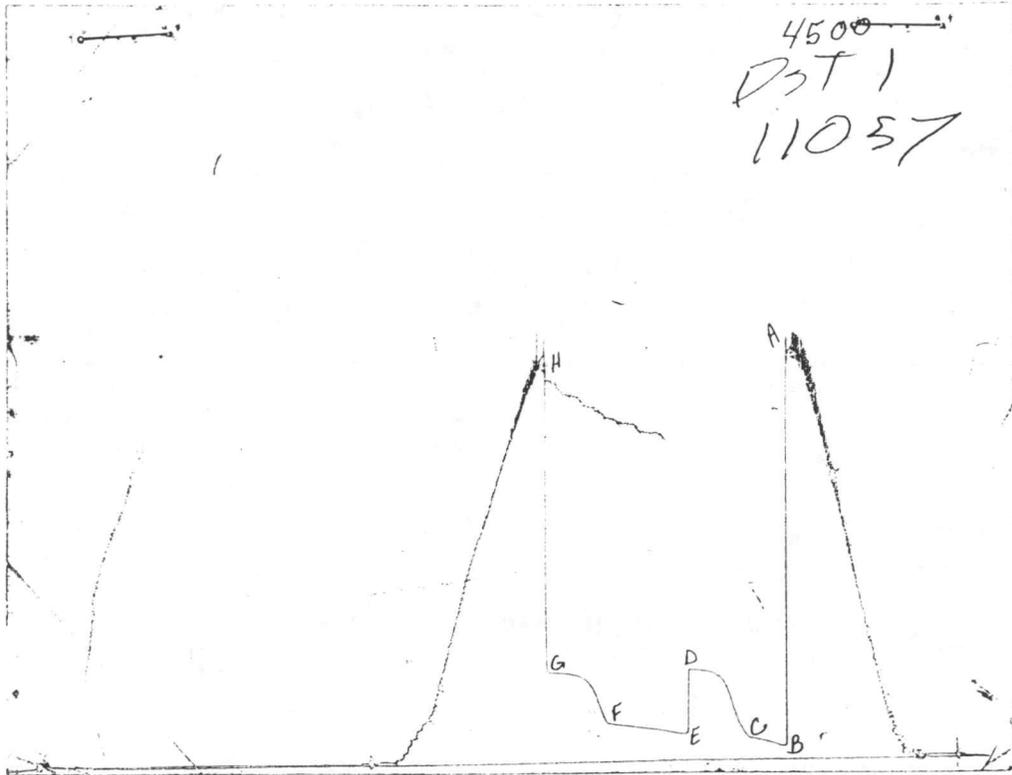
Rec. <u>666</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>195</u>	Feet of	<u>VERY SLTLY OIL CUT GSY MUD-10%GAS/1/2%OIL/89.5%MUD</u>
Rec. <u>189</u>	Feet of	<u>GSY MUD CUT OIL-10%GAS/70%OIL/20%MUD</u>
Rec. <u>63</u>	Feet of	<u>GSY OIL &amp; WTR CUT MUD-25%GAS/10%OIL/5%WTR/60%MUD</u>
Rec. <u>63</u>	Feet of	<u>GSY SLTLY MUD &amp; WTR CUT OIL-50%GAS/40%OIL/5%WTR/5%MUD</u>

BHT 120 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity 39 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 53000 ppm System

(A) Initial Hydrostatic Mud 2386.8 PSI AK1 Recorder No. 11057 Range 4500  
(B) First Initial Flow Pressure 76.2 PSI @ (depth) 4683 w / Clock No. 7452  
(C) First Final Flow Pressure 130.0 PSI AK1 Recorder No. 11058 Range 4500  
(D) Initial Shut-in Pressure 527.8 PSI @ (depth) 4703 w / Clock No. 30401  
(E) Second Initial Flow Pressure 154.7 PSI AK1 Recorder No. 2023 Range 4000  
(F) Second Final Flow Pressure 225.3 PSI @ (depth) 4795 w / Clock No. 20272  
(G) Final Shut-in Pressure 526.7 PSI Initial Opening 30 Final Flow 60  
(H) Final Hydrostatic Mud 2376.6 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2366	2386.8
(B) FIRST INITIAL FLOW PRESSURE	67	76.2
(C) FIRST FINAL FLOW PRESSURE	112	130
(D) INITIAL CLOSED-IN PRESSURE	515	527.8
(E) SECOND INITIAL FLOW PRESSURE	134	154.7
(F) SECOND FINAL FLOW PRESSURE	213	225.3
(G) FINAL CLOSED-IN PRESSURE	526	526.7
(H) FINAL HYDROSTATIC MUD	2332	2376.6



COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.

ABERCROMBIE DRILLING INC

HERRMAN "B" #2

DST 1

25 25S 21W FORD KS

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ELEVATION:	2279	KB	EST. PAY	3	FT
DATUM:	-2405		ZONE TESTED:	CHEROKEE	
TEST INTERVAL:	4673-4708		TIME INTERVALS:	30-45-60-45	
RECORDER DEPTH:	4683		VISCOSITY:	3.54	CP
BOTTOM HOLE TEMP:	120		HOLE SIZE:	7.875	IN

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CUBIC FEET OF GAS IN PIPE:	51				
TOTAL FEET OF RECOVERY:	510.00	CORRECTED PIPE FILLUP:	627.577		
TOTAL BARRELS OF RECOVERY:	3.57	CORR. BARRELS OF RECOVERY:	4.851	BBL	
BARRELS IN DRILL PIPE:	0.00	API GRAVITY:	39		
BARRELS IN WEIGHT PIPE:	3.57	FLUID GRADIENT:	0.359		
BARRELS IN DRILL COLLARS:	0.00				
GAS OIL RATIO:	14.29	CU.FT/BBL			
BUBBLE POINT PRESSURE:	104				
UNCORRECTED INITIAL PRODUCTION:			57.12	BBL	
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			77.62	BBL/DAY	
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			33.798		

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INITIAL SLOPE	108.71	PSI/CYCL	FINAL SLOPE	50.79	PSI/CYCLE
INITIAL P*	551.92	PSI	FINAL P*	550.93	PSI

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TRANSMISSIBILITY	248.50	(MD.-FT./CP.)
PERMEABILITY	293.48	(MD.)
INDICATED FLOW CAPACITY	880.45	(MD.FT)
PRODUCTIVITY INDEX	0.28	(BARREL/DAY/PSI)
DAMAGE RATIO	1.17	
RADIUS OF INVESTIGATION	162.52	(FT,)
POTENTIOMETRIC SURFACE	-1126.39	(FT.)
DRAWDOWN FACTOR	0.179	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	91.07	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	39.66	

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

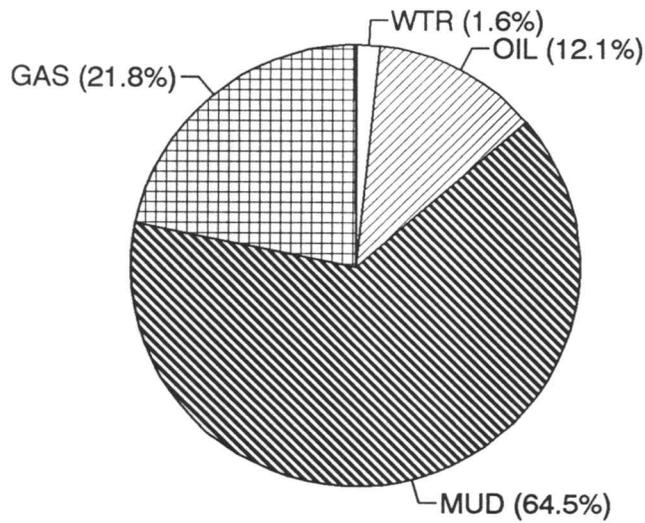
1

TICKET #

6361

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	195	10	19.5	0.5	0.975	0	0	89.5	174.53
2	189	10	18.9	70	15	0	0	20	37.8
3	63	25	15.75	10	6.3	5	3.15	60	37.8
4	63	50	31.5	40	25.2	5	3.15	5	3.15
5			0		0		0		0
TOTAL	510	16.79	85.65	9.3088235	47.475	1.2353	6.3	49.662	253.28

		HRS OPEN	BBL/DAY
BBL OIL=	0.332325 *	1.5	5.3172
BBL WATER=	0.0441 *		0.7056
BBL MUD=	1.772925		
BBL GAS=	0.59955		



INITIAL FLOW

RECORDER 11057

DST # 1

TIME(MIN)	PRESSURE	<>	PRESSURE
0	76.2		76.2
3	80.7		4.5
6	86.3		5.6
9	96.4		10.1
12	103.1		6.7
15	107.6		4.5
18	113.2		5.6
21	118.8		5.6
24	123.3		4.5
27	126.6		3.3
30	130.0		3.4

FINAL FLOW

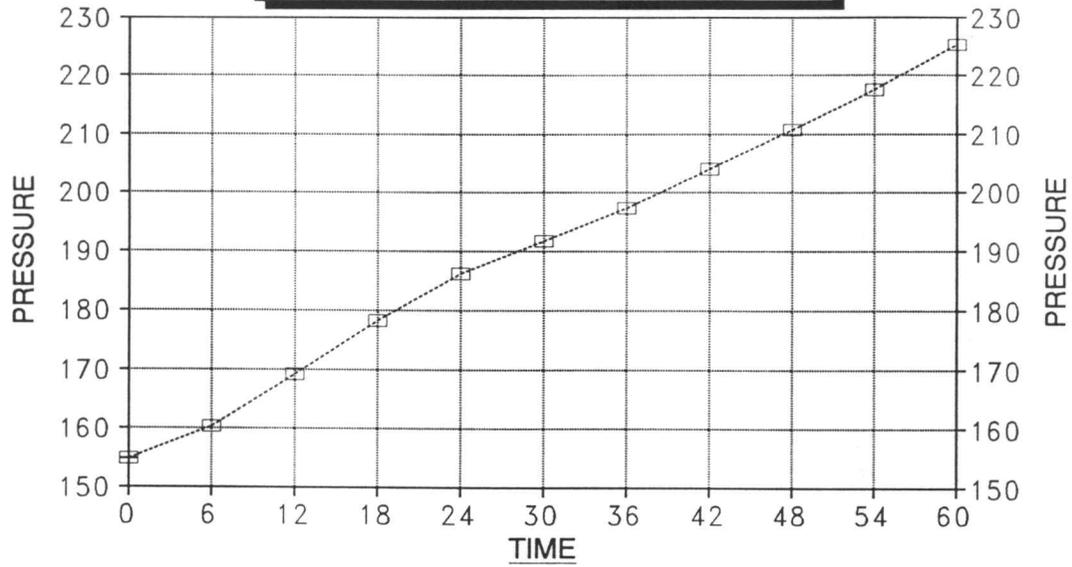
RECORDER 11057

DST # 1

TIME(MIN)	PRESSURE	<>	PRESSURE
0	154.7		154.7
6	160.3		5.6
12	169.2		8.9
18	178.2		9.0
24	186.1		7.9
30	191.7		5.6
36	197.3		5.6
42	204.0		6.7
48	210.7		6.7
54	217.4		6.7
60	225.3		7.9

# DELTA T DELTA P

FINAL FLOW / DST #1



---□--- HERRMAN "B" #2

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

33.798

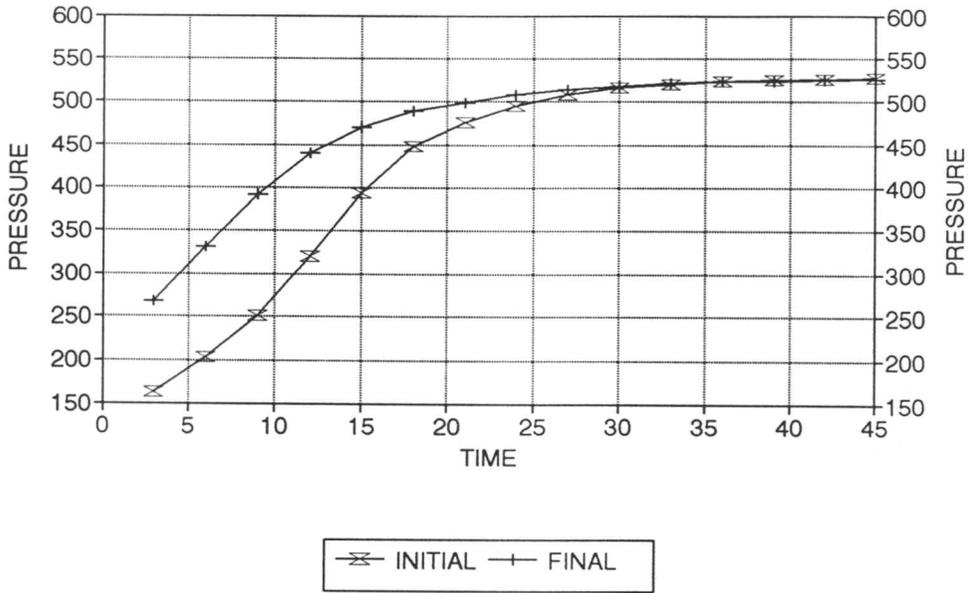
HERRMAN "B" #2  
INITIAL

DST #1		-----			
SHUTIN					
30	INITIAL FLOW TIME	SLOPE	108.7	PSI/CYCLE	
		P*	551.92	PSI	
		-----			
		Log	<>		
TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T	
-----	-----	-----	-----	-----	
	3	162.5	1.041	162.5	11
	6	202.9	0.778	40.4	6
	9	251.1	0.637	48.2	4
	12	319.5	0.544	68.4	4
	15	394.6	0.477	75.1	3
	18	448.4	0.426	53.8	3
	21	476.4	0.385	28.0	2
	24	495.4	0.352	19.0	2
	27	508.8	0.325	13.4	2
	30	516.6	0.301	7.8	2
	33	520.0	0.281	3.4	2
X	36	523.3	0.263	3.3	2
	39	525.6	0.248	2.3	2
	42	526.7	0.234	1.1	2
X	45	527.8	0.222	1.1	2

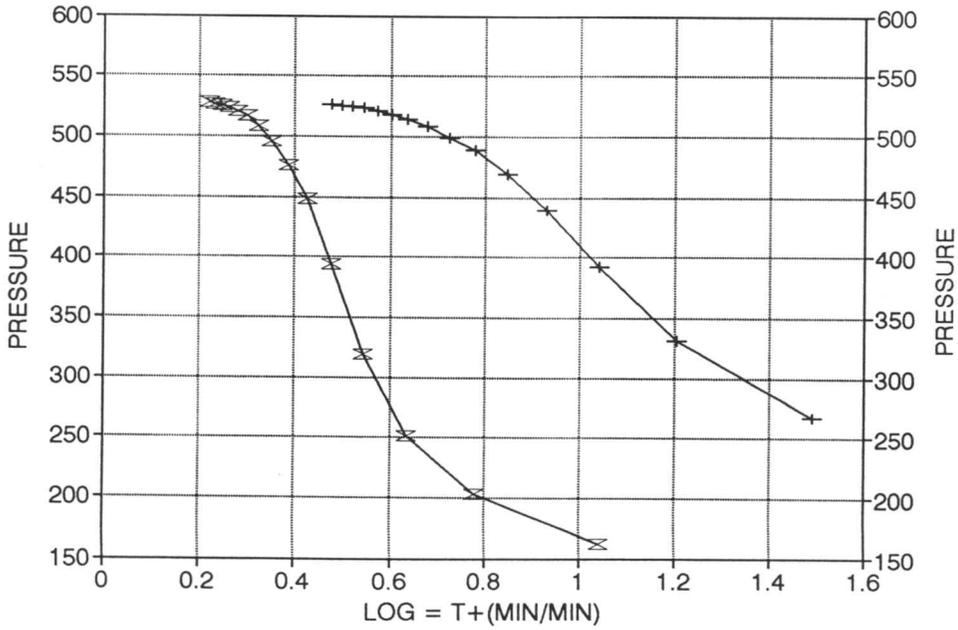
HERRMAN "B" #2  
FINAL

DST #1		-----			
SHUTIN					
90	TOTAL FLOW TIME	SLOPE	50.8	PSI/CYCLE	
		P*	550.9	PSI	
		-----			
		Log	<>		
		Horn T	PRESSURE	Horn T	
		-----	-----	-----	
	3	266.8	1.491	266.8	31
	6	330.7	1.204	63.9	16
	9	392.3	1.041	61.6	11
	12	439.4	0.929	47.1	9
	15	469.6	0.845	30.2	7
	18	488.7	0.778	19.1	6
	21	498.7	0.723	10.0	5
	24	508.8	0.677	10.1	5
	27	514.4	0.637	5.6	4
	30	517.7	0.602	3.3	4
	33	521.1	0.571	3.4	4
X	36	523.3	0.544	2.2	4
	39	524.4	0.520	1.1	3
	42	525.6	0.497	1.2	3
X	45	526.7	0.477	1.1	3

# HERRMAN "B" #2/ DST #1 DELTA T DELTA P



# HORNER PLOT



H. Der Crombie

11058

Dst 1

