

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TUTTLE "A" #1-9 Test No. 1 Date 10/6/92
Company McCOY PETROLEUM CORPORATION Zone TORONTO
Address 110 S MAIN #500 WICHITA KS 67202 Elevation 1920
Co. Rep./Geo. KEN DEAN Cont. EAGLE DRLG #1 Est. Ft. of Pay 12
Location: Sec. 9 Twp. 35S Rge. 21W Co. CLARK State KS

Interval Tested <u>4443-4508</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>65</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>516</u>
Top Packer Depth <u>4438</u>	Drill Collar - 2.25 Ft. Run <u>9</u>
Bottom Packer Depth <u>4443</u>	Mud Wt. <u>40</u> lb/Gal.
Total Depth <u>4508</u>	Viscosity <u>11.2</u>

Tool Open @ 8:04 PM Initial Blow WEAK -BUILDING TO BOTTOM OF BUCKET IN 7 MINUTES
SLID TOOL 7ft TO BOTTOM

Final Blow STRONG-BOTTOM OF BUCKET IN 1 MINUTE

Recovery - Total Feet 110 Flush Tool? NO

Rec. <u>868</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>20</u>	Feet of <u>OIL CUT MUD-5%OIL/95%MUD</u>
Rec. <u>60</u>	Feet of <u>GAS & OIL CUT MUD-30%GAS/10%OIL/60%MUD</u>
Rec. <u>30</u>	Feet of <u>GAS & OIL CUT MUD-20%GAS/15%OIL/65%MUD</u>
Rec. _____	Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 2261.3 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 60.8 PSI @ (depth) 4447 w / Clock No. 25828

(C) First Final Flow Pressure 81.3 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1094.5 PSI @ (depth) 4504 w / Clock No. 27567

(E) Second Initial Flow Pressure 90.3 PSI AK1 Recorder No. _____ Range _____

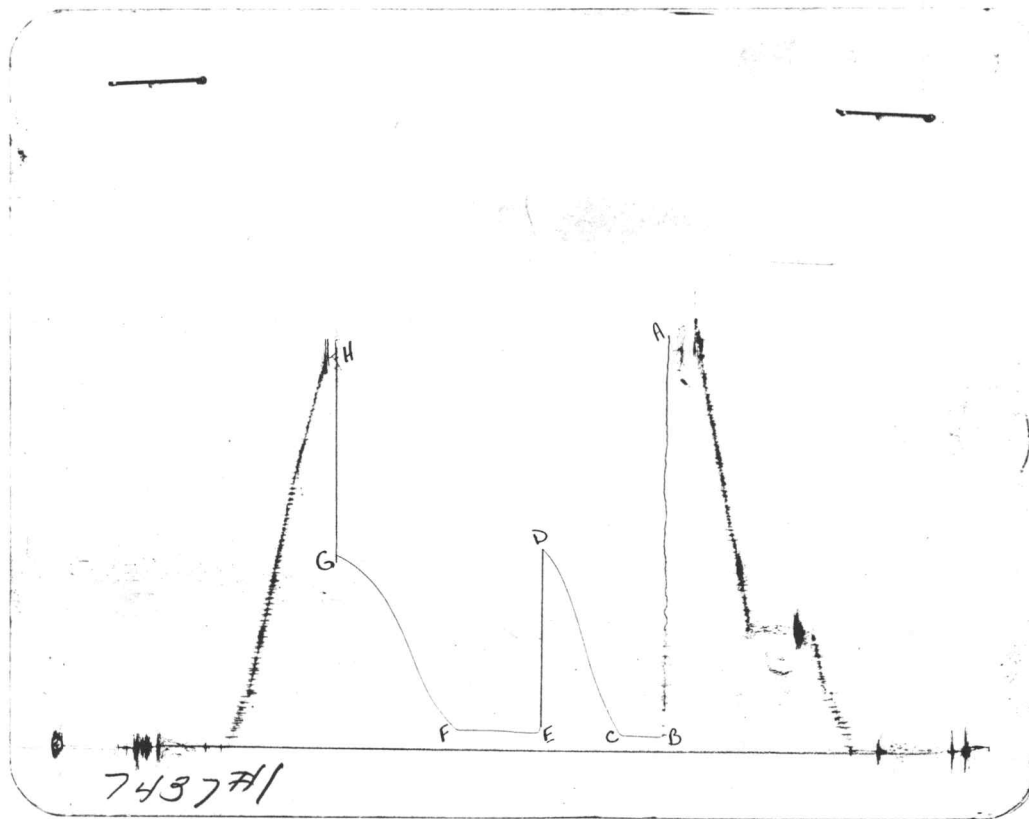
(F) Second Final Flow Pressure 102.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1044.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2230.6 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2259	2261.3
(B) FIRST INITIAL FLOW PRESSURE	59	60.8
(C) FIRST FINAL FLOW PRESSURE	78	81.3
(D) INITIAL CLOSED-IN PRESSURE	1086	1094.5
(E) SECOND INITIAL FLOW PRESSURE	88	90.3
(F) SECOND FINAL FLOW PRESSURE	98	102.4
(G) FINAL CLOSED-IN PRESSURE	1046	1044.7
(H) FINAL HYDROSTATIC MUD	2228	2230.6

DST #

1

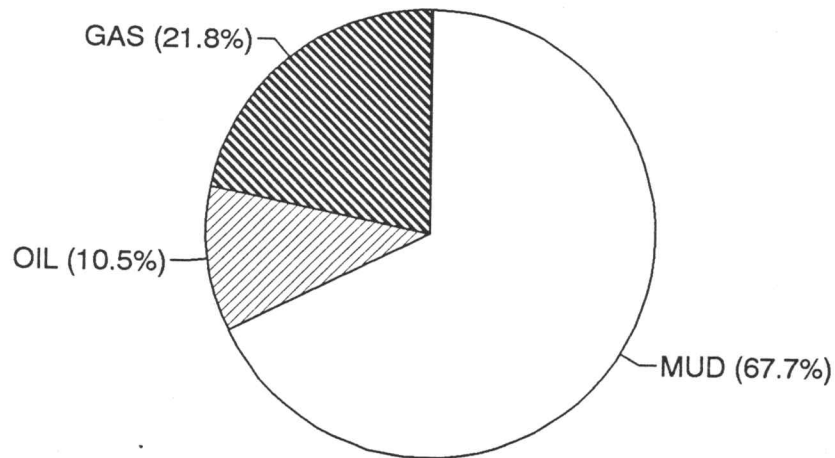
TICKET

5420

SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	20	0	0	5	1	0	0	95	19
2	60	30	18	10	6	0	0	60	36
3	30	20	6	15	4.5	0	0	65	19.5
4			0		0		0		0
5			0		0		0		0
TOTAL	110	21.82	24	10.45	11.5	0.00	0	67.727273	74.5

			HRS OP	BBL/DAY
BBL OIL=	0.056235	*	1.5	0.89976
BBL WATER=	0	*		0
BBL MUD=	0.364305			
BBL GAS=	0.11736			

MUD
OIL
GAS
WTR



TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TUTTLE "A" #1-9 Test No. 2 Date 10/9/92
Company MCCOY PETROLEUM CORPORATION Zone MARMATON
Address 110 S MAIN #500 WICHITA KS 67202 Elevation 1920
Co. Rep./Geo. KEN DEAN Cont. EAGLE DRLG #1 Est. Ft. of Pay _____
Location: Sec. 9 Twp. 35S Rge. 21W Co. CLARK State KS

Interval Tested 5258-5317
Anchor Length 59
Top Packer Depth 5253
Bottom Packer Depth 5258
Total Depth 5317

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 540
Mud Wt. 9.2 lb/Gal.
Viscosity 47 Filtrate 11.2

Tool Open @ 12:50 AM Initial Blow STRONG 12" BLOW IN 5 MINUTES

Final Blow WEAK 7" BLOW

Recovery - Total Feet 390 Flush Tool? NO

Rec. <u>435</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>120</u>	Feet of	<u>MUD & GAS - 5%GAS/95%MUD</u>
Rec. <u>120</u>	Feet of	<u>GAS & OIL CUT MUD-15%GAS/5%OIL/80%MUD</u>
Rec. <u>150</u>	Feet of	<u>GAS & OIL CUT MUD-25%GAS/5%OIL/70%MUD</u>
Rec. _____	Feet of	_____

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2534.6 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 55.3 PSI @ (depth) 5261 w / Clock No. 26191

(C) First Final Flow Pressure 107.2 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 1408.9 PSI @ (depth) 5314 w / Clock No. 17658

(E) Second Initial Flow Pressure 151.2 PSI AK1 Recorder No. _____ Range _____

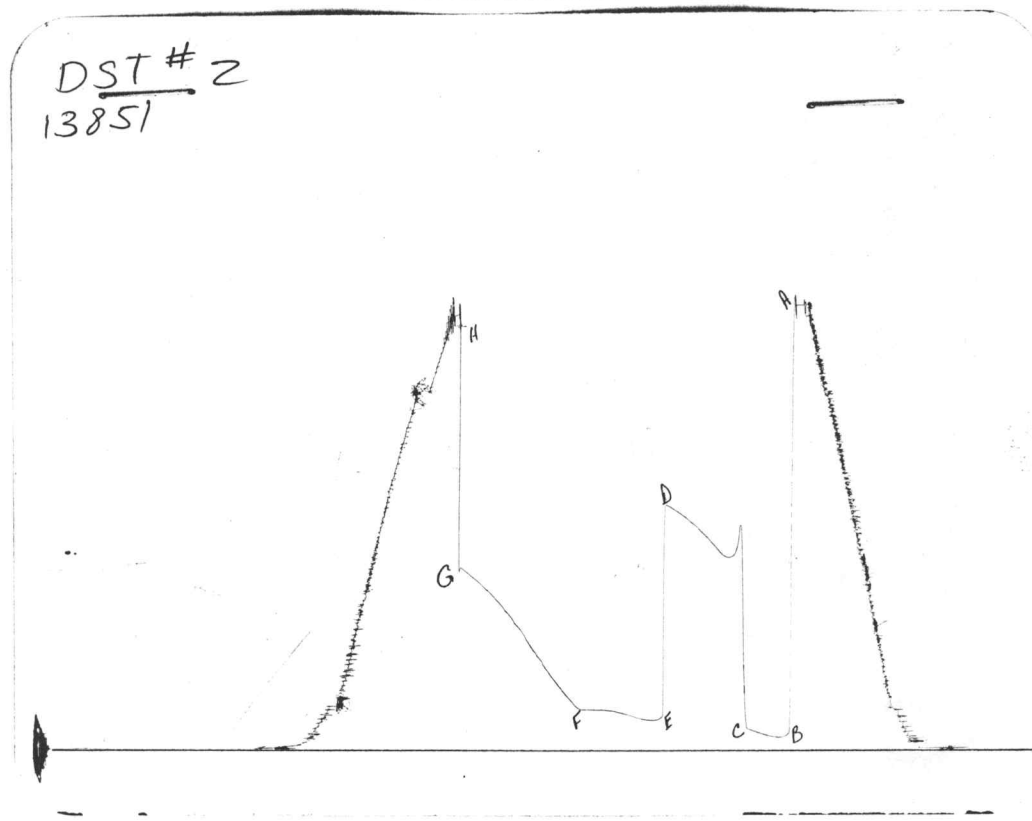
(F) Second Final Flow Pressure 215.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1022.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2471.6 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative STEVE BOWMAN

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2530	2534.6
(B) FIRST INITIAL FLOW PRESSURE	53	55.3
(C) FIRST FINAL FLOW PRESSURE	106	107.2
(D) INITIAL CLOSED-IN PRESSURE	1400	1408.9
(E) SECOND INITIAL FLOW PRESSURE	149	151.2
(F) SECOND FINAL FLOW PRESSURE	213	215.6
(G) FINAL CLOSED-IN PRESSURE	1023	1022.6
(H) FINAL HYDROSTATIC MUD	2475	2471.6

DST #

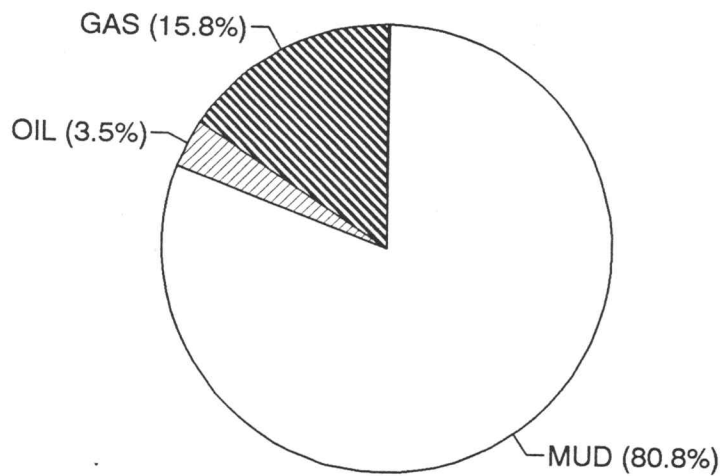
2

TICKET

5280

SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	120	5	6	0	0	0	0	95	114
2	120	15	18	5	6	0	0	80	96
3	150	25	37.5	5	7.5	0	0	70	105
4			0		0		0		0
5			0		0		0		0
TOTAL	390	15.77	61.5	3.46	13.5	0.00	0	80.769231	315

			HRS OP	BBL/DAY
BBL OIL=	0.066015	*	1.5	1.05624
BBL WATER=	0	*		0
BBL MUD=	1.54035			
BBL GAS=	0.300735			



MUD
OIL
GAS
WTR

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name TUTTLE "A" #1-9 Test No. 3 Date 10/10/92
Company McCOY PETROLEUM CORPORATION Zone MORROW
Address 110 S MAIN #500 WICHITA KS 67202 Elevation 1920
Co. Rep./Geo. KEN DEAN Cont. EAGLE DRLG #1 Est. Ft. of Pay 6
Location: Sec. 9 Twp. 35S Rge. 21W Co. CLARK State KS

Interval Tested <u>5626-5650</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>24</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u> </u>
Top Packer Depth <u>5621</u>	Drill Collar - 2.25 Ft. Run <u>540</u>
Bottom Packer Depth <u>5626</u>	Mud Wt. <u>9.1</u> lb/Gal.
Total Depth <u>5650</u>	Viscosity <u>50</u> Filtrate <u>10.4</u>

Tool Open @ 3:20 PM Initial Blow GAS TO SURFACE IN 3 MINUTES
SEE GAS VOLUME REPORT

Final Blow

Recovery - Total Feet 2 Flush Tool? NO

Rec. <u>5597</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>2</u>	Feet of <u>DRIP GAS</u>
Rec. <u> </u>	Feet of <u> </u>
Rec. <u> </u>	Feet of <u> </u>
Rec. <u> </u>	Feet of <u> </u>

BHT °F Gravity °API @ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2811.6 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 974.2 PSI @ (depth) 5628 w / Clock No. 26191

(C) First Final Flow Pressure 1273.6 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 2106.7 PSI @ (depth) 5647 w / Clock No. 17658

(E) Second Initial Flow Pressure 1122.4 PSI AK1 Recorder No. Range

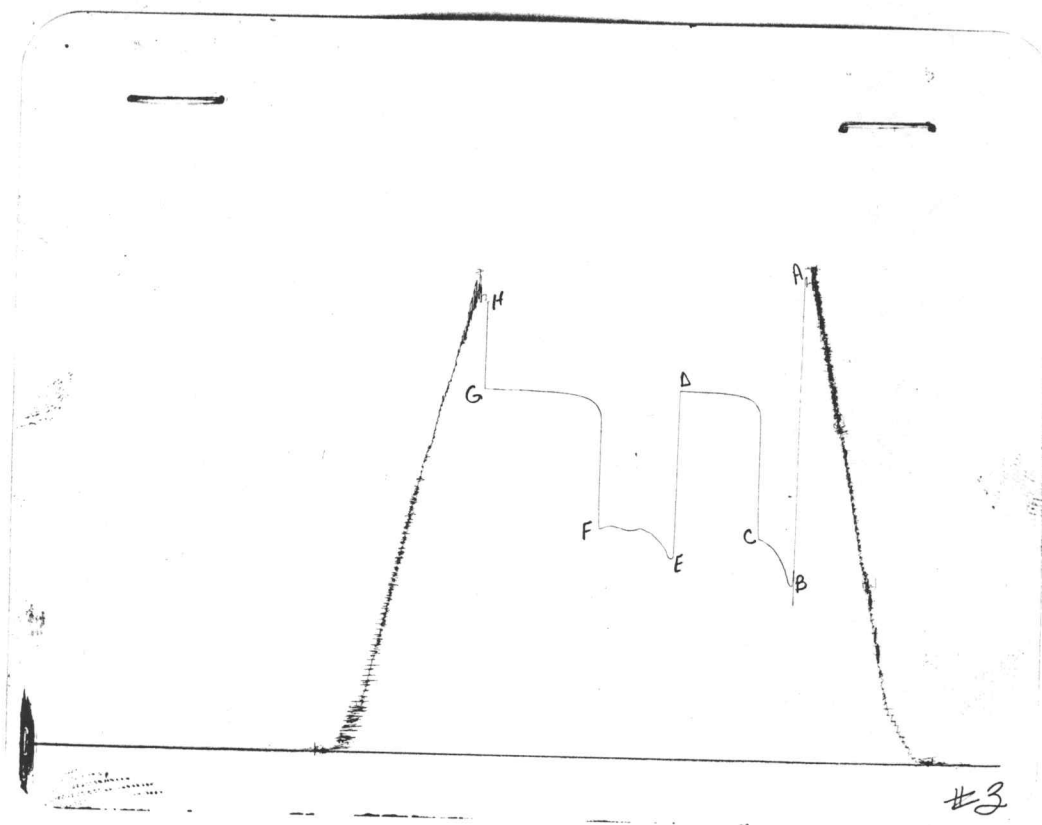
(F) Second Final Flow Pressure 1302.9 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 2106.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2699.8 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative STEVE BOWMAN

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2803	2811.6
(B) FIRST INITIAL FLOW PRESSURE	970	974.2
(C) FIRST FINAL FLOW PRESSURE	1271	1273.6
(D) INITIAL CLOSED-IN PRESSURE	2104	2106.7
(E) SECOND INITIAL FLOW PRESSURE	1120	1122.4
(F) SECOND FINAL FLOW PRESSURE	1303	1302.9
(G) FINAL CLOSED-IN PRESSURE	2104	2106.7
(H) FINAL HYDROSTATIC MUD	2694	2699.8

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

MCCOY PETROLEUM CORPORATION

TUTTLE A #1-9

DST 3

9 35S 21W

CLARK

KS

ELEVATION:	1970 KB	EST. PAY:	6 FT.
DATUM:	-3659	ZONE TESTED:	MORROW SAND
TEST INTERVAL:	5626-5650	TIME INTERVALS:	30-60-60-90
RECORDER DEPTH:	5628	VISCOSITY:	0.01701 CP
BOTTOM HOLE TEMP:	114	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9971	GAS GRAVITY:	0.6812

TEMPERATURE RANKINE:	574.00	&
TRANSMISSIBILITY:	103881.49	Kh/%
THEORITICAL FLOW CAPICITY:	1766.84	Kh
AVERAGE EFFECTIVE PERMEABILITY:	294.47	K(md.)
RADIUS OF INVESTIGATION:	162.80	FT.
DAMAGE RATIO:	4.73	
ABSOLUTE OPEN FLOW(MAX)	9680.70	MCFD
ABSOLUTE OPEN FLOW(MIN)	7634.63	MCFD
THEORITICAL OPEN FLOW(MAX)	45749.53	MCFD
THEORITICAL OPEN FLOW(MIN)	36080.08	MCFD
POTENTIOMETRIC SURFACE	1044.18	(FT.)

INITIAL SHUT-IN VALUES:

SLOPE	50812.18
THEORETICAL STATIC PRESSURE	2118.73

FINAL SHUT-IN VALUES:

SLOPE	54303.74
THEORETICAL STATIC PRESSURE	2119.05

DRAWDOWN FACTOR:

-0.02 (%)

TUTTLE 1-9
INITIAL

DST #3 SHUTIN		-----			
30	INITIAL FLOW TIME	SLOPE	50812.18	PSI/CYCLE	
		P*	2118.73	PSI	

TIME(MIN)	Pws (psi)	Log	<>	Horn T	Horn T
		Horn T	PRESSURE		
-----	-----	-----	-----	-----	-----
3	2034.6	1.041	2034.6		11
6	2060.2	0.778	25.6		6
9	2070.3	0.637	10.1		4
12	2081.4	0.544	11.1		4
15	2088.2	0.477	6.8		3
18	2092.6	0.426	4.4		3
21	2095.9	0.385	3.3		2
24	2097.1	0.352	1.2		2
27	2099.3	0.325	2.2		2
30	2100.1	0.301	0.8		2
33	2100.8	0.281	0.7		2
36	2101.5	0.263	0.7		2
X 39	2102.5	0.248	1.0		2
42	2103.6	0.234	1.1		2
45	2104.9	0.222	1.3		2
48	2105.1	0.211	0.2		2
51	2105.9	0.201	0.8		2
54	2106.1	0.192	0.2		2
X 57	2106.7	0.184	0.6		2

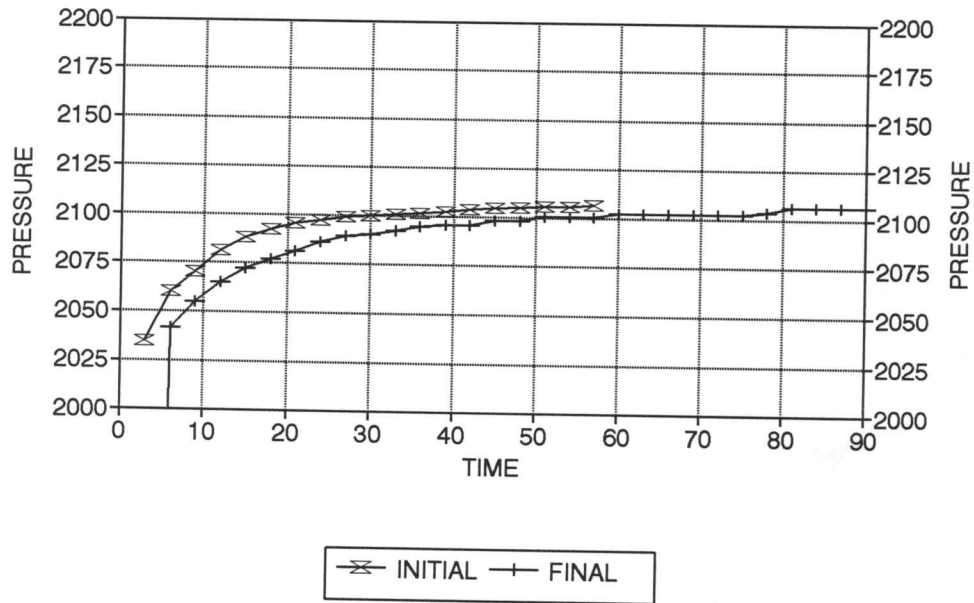
TUTTLE 1-9
FINAL

DST #3
SHUTIN

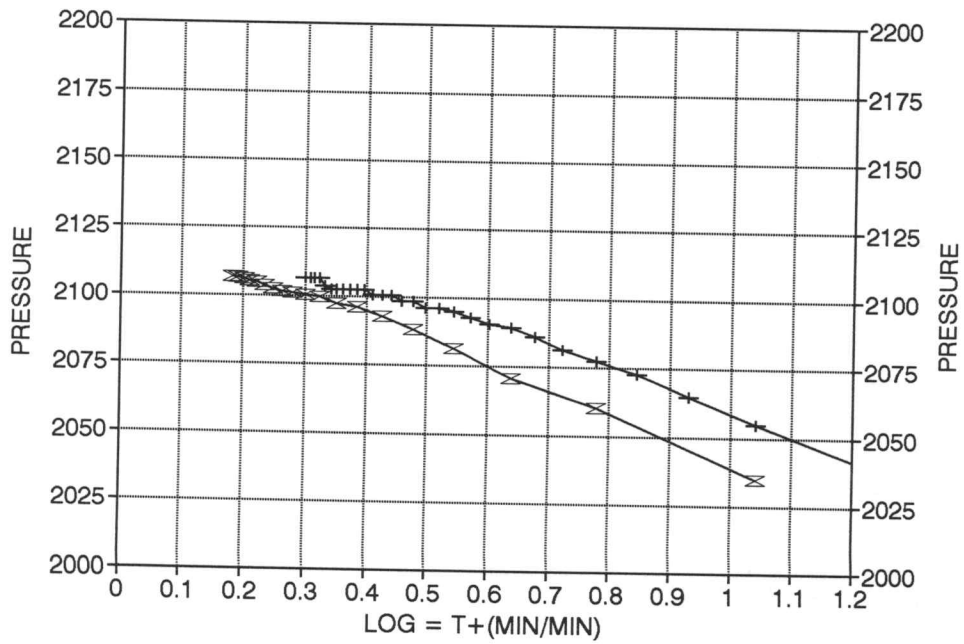
90 TOTAL FLOW TIME		-----		
		SLOPE	54303.74	PSI/CYCLE
		P*	2119.05	PSI

		Log	<>	
TIME(MIN)	Pws(psi)	Horn T	PRESSURE	Horn T
-----		-----	-----	-----
3	202.1	1.491	202.1	31
6	2041.3	1.204	1839.2	16
9	2054.7	1.041	13.4	11
12	2064.7	0.929	10.0	9
15	2072.5	0.845	7.8	7
18	2077.1	0.778	4.6	6
21	2081.4	0.723	4.3	5
24	2085.9	0.677	4.5	5
27	2089.2	0.637	3.3	4
30	2090.4	0.602	1.2	4
33	2092.6	0.571	2.2	4
36	2094.8	0.544	2.2	4
39	2095.9	0.520	1.1	3
42	2095.9	0.497	0.0	3
45	2098.2	0.477	2.3	3
48	2098.2	0.459	0.0	3
51	2100.4	0.442	2.2	3
54	2100.4	0.426	0.0	3
57	2100.4	0.411	0.0	3
60	2102.6	0.398	2.2	3
X 63	2102.6	0.385	0.0	2
66	2102.6	0.374	0.0	2
69	2102.6	0.363	0.0	2
72	2102.6	0.352	0.0	2
75	2102.6	0.342	0.0	2
78	2103.7	0.333	1.1	2
81	2106.2	0.325	2.5	2
84	2106.2	0.316	0.0	2
87	2106.2	0.308	0.0	2
X 90	2106.2	0.301	0.0	2

TUTTLE 1-9 DST #3 DELTA T DELTA P



HORNER PLOT



INITIAL FLOW

RECORDER # 13851

DST # 3

TIME(MIN)	PRESSURE	<> PRESSURE
0	974.2	974.2
3	984.6	10.4
6	1007.7	23.1
9	1071.6	63.9
12	1125.5	53.9
15	1169.6	44.1
18	1200.4	30.8
21	1220.4	20
24	1240.1	19.7
27	1258.8	18.7
30	1273.6	14.8

FINAL FLOW

RECORDER # 13851

DST # 3

TIME(MIN)	PRESSURE	<> PRESSURE
0	1122.4	1122.4
3	1142.1	19.7
6	1142.1	0
9	1176.2	34.1
12	1210.3	34.1
15	1237.8	27.5
18	1258.8	21
21	1279.7	20.9
24	1290.7	11
27	1300.6	9.9
30	1308.3	7.7
33	1302.8	-5.5
36	1295	-7.8
39	1295.1	0.1
42	1299.5	4.4
45	1307.2	7.7
48	1312.7	5.5
51	1318.2	5.5
54	1318.2	0
57	1313.8	-4.4
60	1302.9	-10.9

TUTTLE 1-9
INITIAL

DST #3
SHUTIN
30 TOTAL FLOW TIME

Slope 65.48 psi/cycle
P * 2119 psi

TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
-----	-----	-----	-----	-----
3	2034.6	1.041	2034.6	11
6	2060.2	0.778	25.6	6
9	2070.3	0.637	10.1	4
12	2081.4	0.544	11.1	4
15	2088.2	0.477	6.8	3
18	2092.6	0.426	4.4	3
21	2095.9	0.385	3.3	2
24	2097.1	0.352	1.2	2
27	2099.3	0.325	2.2	2
30	2100.1	0.301	0.8	2
33	2100.8	0.281	0.7	2
36	2101.5	0.263	0.7	2
x 39	2102.5	0.248	1.0	2
42	2103.6	0.234	1.1	2
45	2104.9	0.222	1.3	2
48	2105.1	0.211	0.2	2
51	2105.9	0.201	0.8	2
54	2106.1	0.192	0.2	2
X 57	2106.7	0.184	0.6	2

TUTTLE 1-9
FINAL

DST #3
SHUTIN
90 TOTAL FLOW TIME

Slope 42.69 psi/cycle
P * 2119 psi

	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	-----	-----	-----	-----
	3 202.1	1.491	202.1	31
	6 2041.3	1.204	1839.2	16
	9 2054.7	1.041	13.4	11
	12 2064.7	0.929	10.0	9
	15 2072.5	0.845	7.8	7
	18 2077.1	0.778	4.6	6
	21 2081.4	0.723	4.3	5
	24 2085.9	0.677	4.5	5
	27 2089.2	0.637	3.3	4
	30 2090.4	0.602	1.2	4
	33 2092.6	0.571	2.2	4
	36 2094.8	0.544	2.2	4
	39 2095.9	0.520	1.1	3
	42 2095.9	0.497	0.0	3
	45 2098.2	0.477	2.3	3
	48 2098.2	0.459	0.0	3
	51 2100.4	0.442	2.2	3
	54 2100.4	0.426	0.0	3
	57 2100.4	0.411	0.0	3
	60 2102.6	0.398	2.2	3
X	63 2102.6	0.385	0.0	2
	66 2102.6	0.374	0.0	2
	69 2102.6	0.363	0.0	2
	72 2102.6	0.352	0.0	2
	75 2102.6	0.342	0.0	2
	78 2103.7	0.333	1.1	2
	81 2106.2	0.325	2.5	2
	84 2106.2	0.316	0.0	2
	87 2106.2	0.308	0.0	2
X	90 2106.2	0.301	0.0	2

GAS VOLUME REPORT

McCOY PETROLEUM CORPORATION

TUTTLE "A" #1-9

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	30	1.5	2558	5	40	1.5	3155
10	45	1.5	3454	10	65	1.5	4647
15	60	1.5	4349	15	70	1.5	4946
20	65	1.5	4647	20	75	1.5	5245
25	68	1.5	4827	25	78	1.5	5424
30	70	1.5	4946	30	78	1.5	5424
				35	78	1.5	5424
				40	78	1.5	5424
				45	81	1.5	5603
				50	81	1.5	5603
				55	88	1.5	6021
				60	88	1.5	6021

Remarks:

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TUTTLE "A" #1-9 Test No. 4 Date 10/11/92
Company MCCOY PETROLEUM CORPORATION Zone MORROW
Address 110 S MAIN #500 WICHITA KS 67202 Elevation 1920
Co. Rep./Geo. KEN DEAN Cont. EAGLE DRLG #1 Est. Ft. of Pay _____
Location: Sec. 9 Twp. 35S Rge. 21W Co. CLARK State KS

Interval Tested 5657-5670 Drill Pipe Size 4.5" XH
Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5652 Drill Collar - 2.25 Ft. Run 540
Bottom Packer Depth 5657 Mud Wt. 9.1 lb/Gal.
Total Depth 5670 Viscosity 55 Filtrate 11.2

Tool Open @ 9:40 AM Initial Blow GAS TO SURFACE IN 5 MINUTES
SEE GAS VOLUME REPORT

Final Blow _____

Recovery - Total Feet 730 Flush Tool? NO

Rec. 4900 Feet of GAS IN PIPE
Rec. 730 Feet of GASSY MUD-10%GAS/90%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 113 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 11000 ppm System

(A) Initial Hydrostatic Mud 2779.3 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 172.5 PSI @ (depth) 5660 w / Clock No. 26191

(C) First Final Flow Pressure 225.6 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5667 w / Clock No. 17658

(E) Second Initial Flow Pressure 225.6 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 350.4 PSI @ (depth) _____ w / Clock No. _____

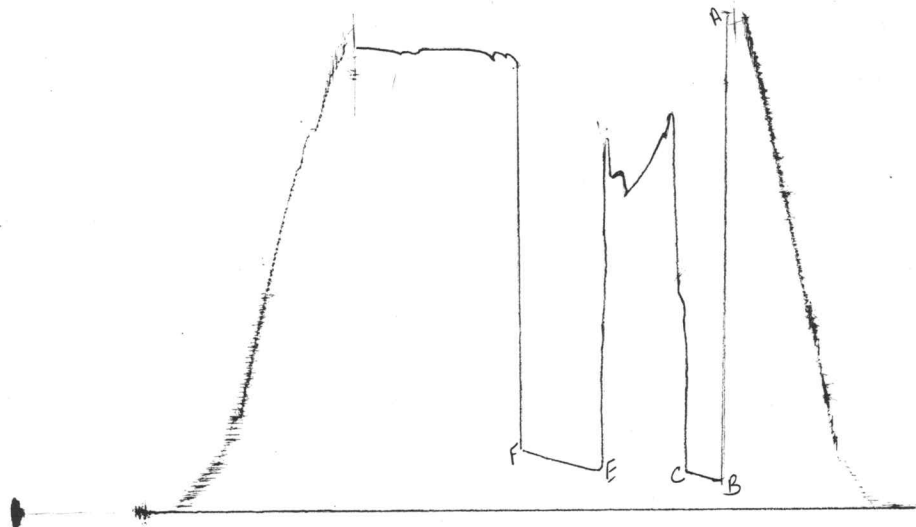
(G) Final Shut-in Pressure _____ PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2640.1 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative STEVE BOWMAN

CHART PAGE

DST #4
13851



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2781	2779.3
(B) FIRST INITIAL FLOW PRESSURE	170	172.5
(C) FIRST FINAL FLOW PRESSURE	224	225.6
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE	224	225.6
(F) SECOND FINAL FLOW PRESSURE	352	350.4
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2639	2640.1

GAS VOLUME REPORT

McCOY PETROLEUM CORPORATION

TUTTLE "A" #1-9

DST # 4

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5		1.5		5	1.5	1.5	456
10	2	1.5	527	10	3	1.5	654
15	2	1.5	527	15	3.5	1.5	709
20	3	1.5	654	20	3.5	1.5	709
25	3	1.5	654	25	3.5	1.5	709
30	3	1.5	654	30	3.5	1.5	709
				35	3.5	1.5	709
				40	3.5	1.5	709
				45	3.5	1.5	709
				50	3.5	1.5	709
				55	3.5	1.5	709
				60	3.5	1.5	709

Remarks:



GAS VOLUME REPORT

Tuttle A # 1-9

WELL NAME AND NO.

#4
DST NO.

[illegible]