TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name UHL #1 Test No. 1 Date 3/2/94

Company HUMMON CORPORATION Zone MARM/ALT.

Address 200 W DOUGLAS #1020 WICHITA KS 67202 Elevation 2148

Co. Rep./Geo. BYRON HUMMON Cont. VAL ENERGY Est. Ft. of Pay

Location: Sec. 16 Twp. 31S Rge. 18W Co. COMANCHE State KS

Interval Tested 4912-4930

Anchor Length 18

Top Packer Depth 4907

Bottom Packer Depth 4912

Total Depth 4930

Drill Pipe Size 4.5" XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run

Mud Wt. 9.3 lb/Gal.

Viscosity 46 Filtrate 10.5

Tool Open @ 5:50 PM Initial Blow STRONG BLOW-BOTTOM OF BUCKET IN 20 SECONDS

Final Blow STRONG BLOW -- BOTTOM OF BUCKET WHEN TOOL OPENED

Recovery - Total Feet 248 Flush Tool? NO

Rec. Feet of GAS TO SURFACE

Rec. 62 Feet of OIL & GAS CUT MUDDY WATER-30%GAS/20%OIL/25%WTR/25%MUD

Rec. 62 Feet of OIL & GAS CUT MUDDY WTR-50% GAS/10%OIL/10%WTR/30%MUD

Rec. 124 Feet of MUDDY WATER-90% WTR/ 10% MUD

Rec. Feet of

BHT 118 °F Gravity °API @ °F Corrected Gravity °API

RW 0.23 @ 80 °F Chlorides 32000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2394.7 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 46.2 PSI @ (depth) 4916 w / Clock No. 27501

(C) First Final Flow Pressure 64.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1191.9 PSI @ (depth) 4926 w / Clock No. 27567

(E) Second Initial Flow Pressure 58.1 PSI AK1 Recorder No. Range

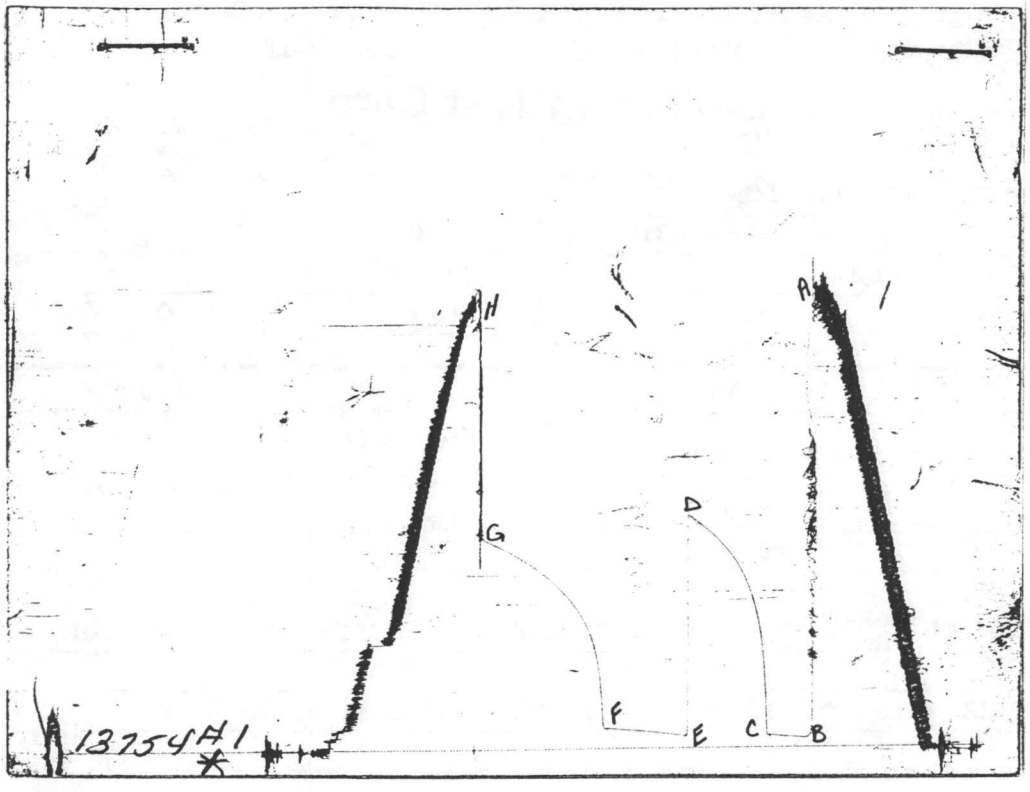
(F) Second Final Flow Pressure 102.3 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1075.0 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2368.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

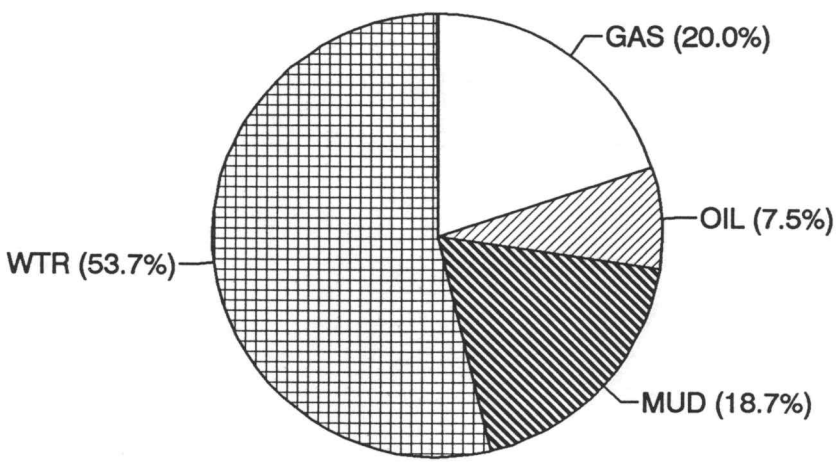
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2441	2394.7
(B) FIRST INITIAL FLOW PRESSURE	49	46.2
(C) FIRST FINAL FLOW PRESSURE	68	64.9
(D) INITIAL CLOSED-IN PRESSURE	1196	1191.9
(E) SECOND INITIAL FLOW PRESSURE	68	58.1
(F) SECOND FINAL FLOW PRESSURE	98	102.3
(G) FINAL CLOSED-IN PRESSURE	1076	1075
(H) FINAL HYDROSTATIC MUD	2370	2368.4

CALCULATED RECOVERY ANALYSIS DRILL PIPE

DST # 1 TICKET 6518

SAMPLE	TOTAL	GAS			OIL		WATER		MUD
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	62	30	18.6	20	12.4	25	15.5	25	15.5
2	62	50	31	10	6.2	10	6.2	30	18.6
3	124	0	0	0	0	90	111.6	10	12.4
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	248	20	49.6	7.5	18.6	53.75	133.3	18.8	46.5

			HRS	BBL/DAY
BBL OIL=	0.264492	*	1.5	4.2319
BBL WATER=	1.895526	*		30.328
BBL MUD=	0.66123			
BBL GAS	0.705312			



GAS VOLUME REPORT

HUMMON CORPORATION

UHL #1 DST # 1

MIN	INCHES OF WTR	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
0		0.5		0	70	0.5	52.4
12	26	0.5	31.9	10	20	0.5	28
24	20	0.5	28	20	26	0.5	31.9
30	10	0.5	19.9	30	26	0.5	31.9
				40	24	0.5	30.7
				50	20	0.5	28
				60	16	0.5	25.1

Remarks: GAS TO SURFACE IN 12 MINUTES ON INITIAL FLOW
NO GAS SAMPLE TAKEN

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name: UHL #1 | Test No.: 2 | Date: 3/3/94

Company: HUMMON CORPORATION | Zone: MISS

Address: 200 W DOUGLAS #1020 WICHITA KS 67202 | Elevation: 2148

Co. Rep./Geo.: BYRON HUMMON | Cont.: VAL ENERGY | Est. Ft. of Pay: 10

Location: Sec.: 16 | Twp.: 31S | Rge.: 18W | Co.: COMANCHE | State: KS

Interval Tested: 5061-5075 | Drill Pipe Size: 4.5" XH

Anchor Length: 14 | Wt. Pipe I.D. - 2.7 Ft. Run:

Top Packer Depth: 5056 | Drill Collar – 2.25 Ft. Run: 120

Bottom Packer Depth: 5061 | Mud Wt.: 9.4 lb/Gal.

Total Depth: 5075 | Viscosity: 44 | Filtrate: 14

Tool Open @: 4:50 PM | Initial Blow: STRONG-BOTTOM OF BUCKET IN 10 MINUTES

Final Blow: STRONG BLOW -- BOTTOM OF BUCKET IN 30 SECONDS

Recovery - Total Feet: 135 | Flush Tool?: NO

Rec. 1409	Feet of	GAS IN PIPE
Rec. 10	Feet of	CLEAN OIL
Rec. 65	Feet of	GAS & OIL CUT MUD-35%GAS/50%OIL/5%WTR/10%MUD
Rec. 60	Feet of	GAS & OIL CUT MUD- 30% GAS/30% OIL/5%WTR/35%MUD
Rec.	Feet of	

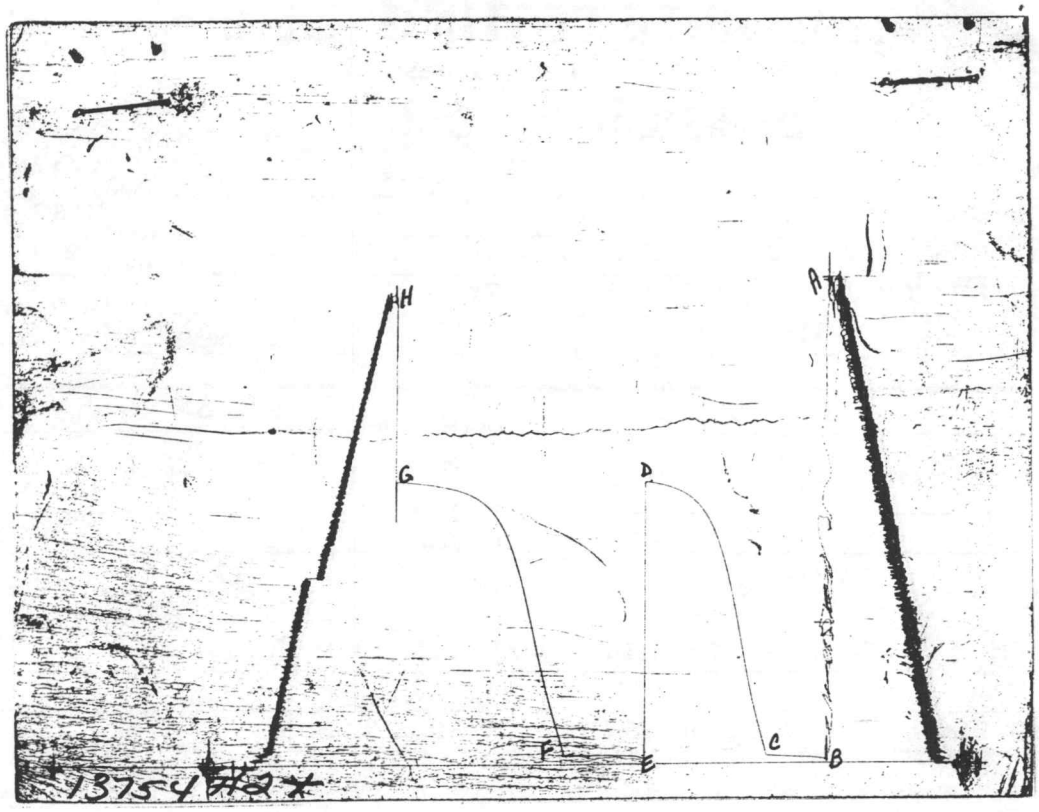
BHT 131 °F | Gravity °API | @ °F | Corrected Gravity 36 °API

RW 0.16 | @ 80 °F | Chlorides 80000 ppm Recovery | Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud	2497.9 PSI	AK1 Recorder No. 13754	Range 4000
(B) First Initial Flow Pressure	19.6 PSI	@ (depth) 5065	w / Clock No. 27501
(C) First Final Flow Pressure	40.3 PSI	AK1 Recorder No. 7437	Range 4200
(D) Initial Shut-in Pressure	1448.9 PSI	@ (depth) 5071	w / Clock No. 27567
(E) Second Initial Flow Pressure	30.5 PSI	AK1 Recorder No.	Range
(F) Second Final Flow Pressure	48.2 PSI	@ (depth)	w / Clock No.
(G) Final Shut-in Pressure	1451.9 PSI	Initial Opening 45	Final Flow 60
(H) Final Hydrostatic Mud	2410.9 PSI	Initial Shut-in 90	Final Shut-in 120

Our Representative: DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2522	2497.9
(B) FIRST INITIAL FLOW PRESSURE	29	19.6
(C) FIRST FINAL FLOW PRESSURE	49	40.3
(D) INITIAL CLOSED-IN PRESSURE	1446	1448.9
(E) SECOND INITIAL FLOW PRESSURE	49	30.5
(F) SECOND FINAL FLOW PRESSURE	59	48.2
(G) FINAL CLOSED-IN PRESSURE	1446	1451.9
(H) FINAL HYDROSTATIC MUD	2441	2410.9

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

HUMMON CORPORATION

UHL #1 DST 2

16 31S 18W COMANCHE KS

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ELEVATION:	2148	KB	EST. PAY	10	FT
DATUM:	-2918		ZONE TESTED:	MISS	
TEST INTERVAL:	5061-5075		TIME INTERVALS:	45-90-60-120	
RECORDER DEPTH:	5065		VISCOSITY:	2.44	CP
BOTTOM HOLE TEMP:	131		HOLE SIZE:	7.875	IN

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CUBIC FEET OF GAS IN PIPE:	112			
TOTAL FEET OF RECOVERY:	135.00	CORRECTED PIPE FILLUP:	131.694	
TOTAL BARRELS OF RECOVERY:	1.05	CORR. BARRELS OF RECOVERY:	1.011	BBL
BARRELS IN DRILL PIPE:	0.21	API GRAVITY:	36	
BARRELS IN WEIGHT PIPE:	0.84	FLUID GRADIENT:	0.366	
BARRELS IN DRILL COLLARS:	0.00			
GAS OIL RATIO:	106.80	CU.FT/BBL		
BUBBLE POINT PRESSURE:	643			
UNCORRECTED INITIAL PRODUCTION:			14.45	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			13.86	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			4.658	

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INITIAL SLOPE	863.01	PSI/CYCL	FINAL SLOPE	346.85	PSI/CYCLE
INITIAL P*	1600.87	PSI	FINAL P*	1543.20	PSI

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TRANSMISSIBILITY	6.50	(MD.-FT./CP.)
PERMEABILITY	1.59	(MD.)
INDICATED FLOW CAPACITY	15.86	(MD.FT)
PRODUCTIVITY INDEX	0.01	(BARREL/DAY/PSI)
DAMAGE RATIO	0.79	
RADIUS OF INVESTIGATION	12.90	(FT,)
POTENTIOMETRIC SURFACE	661.69	(FT.)
DRAWDOWN FACTOR	3.602	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	0.00	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	0.00	

INITIAL FLOW

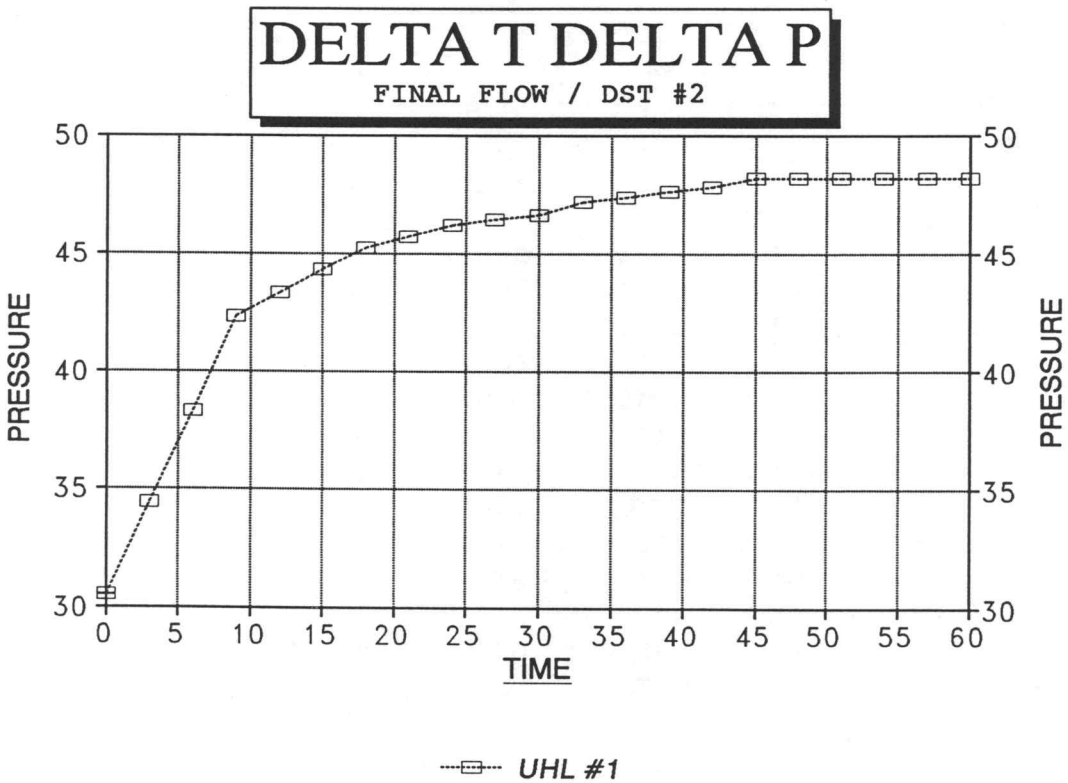
RECORDER 13754 DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
0	19.6	19.6
3	22.6	3.0
6	25.5	2.9
9	29.5	4.0
12	30.5	1.0
15	31.4	0.9
18	31.4	0.0
21	32.4	1.0
24	33.4	1.0
27	34.4	1.0
30	35.4	1.0
33	36.4	1.0
36	37.4	1.0
39	38.3	0.9
42	39.3	1.0
45	40.3	1.0

FINAL FLOW

RECORDER 13754 DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
0	30.5	30.5
3	34.4	3.9
6	38.3	3.9
9	42.3	4.0
12	43.3	1.0
15	44.3	1.0
18	45.2	0.9
21	45.7	0.5
24	46.2	0.5
27	46.4	0.2
30	46.6	0.2
33	47.2	0.6
36	47.4	0.2
39	47.6	0.2
42	47.8	0.2
45	48.2	0.4
48	48.2	0.0
51	48.2	0.0
54	48.2	0.0
57	48.2	0.0
60	48.2	0.0



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 4.658

UHL #1
INITIAL

DST #2
SHUTIN

45 INITIAL FLOW TIME

SLOPE 863.0 PSI/CYCLE
P* 1600.87 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	6	148.6	0.929	148.6	9
	12	309.0	0.677	160.4	5
	18	510.8	0.544	201.8	4
	24	735.1	0.459	224.3	3
	30	940.7	0.398	205.6	3
	36	1087.9	0.352	147.2	2
	42	1207.9	0.316	120.0	2
	48	1282.9	0.287	75.0	2
	54	1336.9	0.263	54.0	2
	60	1373.9	0.243	37.0	2
	66	1400.9	0.226	27.0	2
X	72	1418.9	0.211	18.0	2
	78	1430.9	0.198	12.0	2
	84	1440.9	0.186	10.0	2
X	90	1448.9	0.176	8.0	2

UHL #1
FINAL

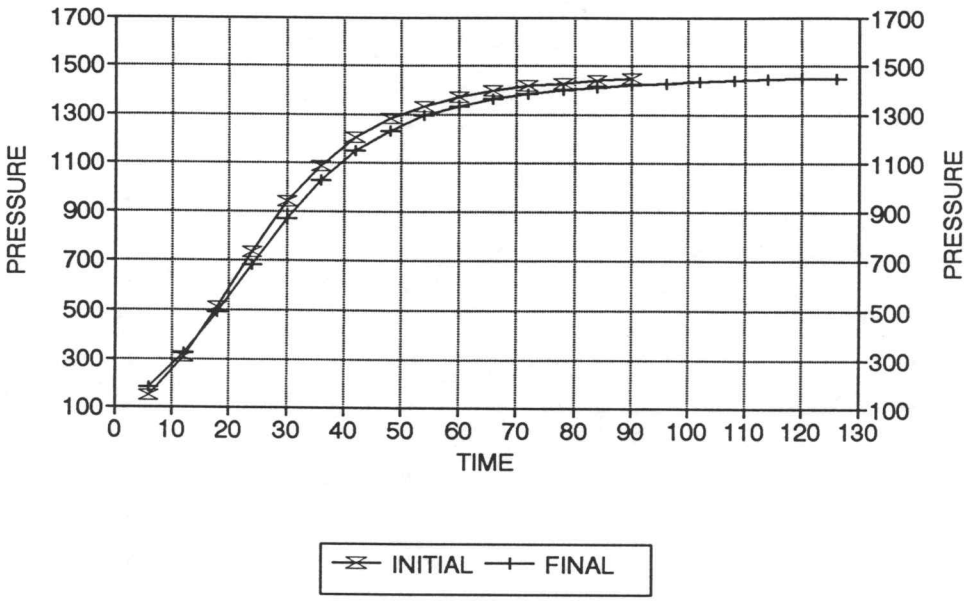
DST #2
SHUTIN

105 TOTAL FLOW TIME

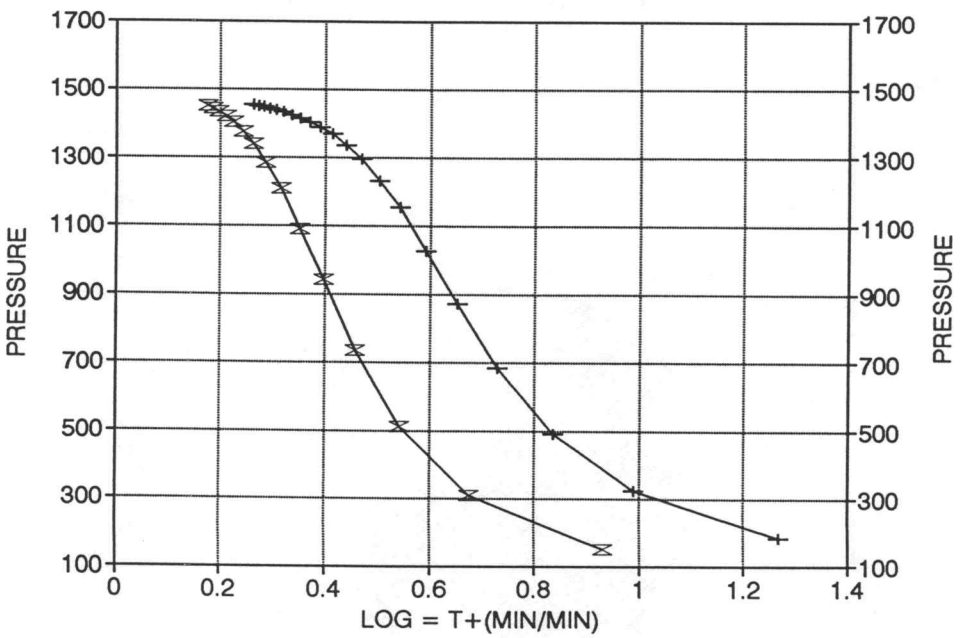
SLOPE 346.8 PSI/CYCLE
P* 1543.2 PSI

			Log Horn T	<> PRESSURE	Horn T
	6	183.0	1.267	183.0	19
	12	322.8	0.989	139.8	10
	18	490.1	0.835	167.3	7
	24	683.7	0.730	193.6	5
	30	870.5	0.653	186.8	5
	36	1027.0	0.593	156.5	4
	42	1152.9	0.544	125.9	4
	48	1231.9	0.503	79.0	3
	54	1295.9	0.469	64.0	3
	60	1335.9	0.439	40.0	3
	66	1366.9	0.413	31.0	3
	72	1386.0	0.391	19.1	2
	78	1402.9	0.370	16.9	2
	84	1413.9	0.352	11.0	2
	90	1423.9	0.336	10.0	2
	96	1430.9	0.321	7.0	2
	102	1436.9	0.307	6.0	2
X	108	1440.9	0.295	4.0	2
	114	1445.9	0.284	5.0	2
	120	1448.9	0.273	3.0	2
X	126	1451.9	0.263	3.0	2

UHL #1 / DST #2
DELTA T DELTA P



HORNER PLOT



CALCULATED RECOVERY ANALYSIS

DST 2 TICKET # 6519

SAMPLE #	TOTAL FEET	%	GAS FEET	%	OIL FEET	%	WATER FEET	%	MUD FEET
DRILL 1	10	0	0	100	10	0	0	0	0
PIPE 2	5	35	1.75	50	2.5	5	0.25	10	0.5
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	60	35	21	50	30	5	3	10	6
COLLAR 2	60	30	18	30	18	5	3	35	21
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	135		40.75		60.5		6.25		27.5

			HRS OPEN	BBL/DAY
BBL OIL=	0.41247	*	1.75	5.6567314
BBL WATER=	0.032895	*		0.4511314
BBL MUD=	0.13914			
BBL GAS =	0.215595