

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DIANE #3-35 Test No. 1 Date 12/27/93
Company BEREXCO INC Zone MORROW
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2964
Co. Rep./Geo. CHARLIE SPRADLIN Cont. SWEETMAN DRLG RIG #1 Est. Ft. of Pay 6
Location: Sec. 35 Twp. 28S Rge. 33W Co. HASKELL State KS

Interval Tested 5343-5387 Drill Pipe Size 4.5" XH
Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run 276
Top Packer Depth 5335 Drill Collar - 2.25 Ft. Run 9.1
Bottom Packer Depth 5343 Mud Wt. 53 lb/Gal. 6.4
Total Depth 5387 Viscosity 53 Filtrate 6.4

Tool Open @ 5:05 PM Initial Blow WEAK BLOW BUILT TO BOTTOM OF BUCKET IN 4 MINUTES
ISI: BLED OFF BLOW-WEAK BLOW-BUILT TO BOTTOM OF BUCKET IN 10 MINUTES
Final Blow BOTTOM OF BUCKET AS TOOL OPENED/ FSI: BLED OFF BLOW
WEAK BLOW-BUILT TO BOTTOM OF BUCKET IN 3 MINUTES/GTS IN 70 MIN

Recovery - Total Feet 1150 Flush Tool? NO

Rec. 137 Feet of CLEAN GASSY OIL-40% GAS/ 60% OIL
Rec. 1013 Feet of GSY & HVY OIL CUT MUD-25%GAS/45%OIL/30%MUD
Rec. Feet of
Rec. Feet of
Rec. Feet of

BHT 125 °F Gravity 35 °API @ 66 °F Corrected Gravity 34.6 °API
RW @ °F Chlorides ppm Recovery Chlorides 1450 ppm System

(A) Initial Hydrostatic Mud 2594.3 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 171.4 PSI @ (depth) 5347 w / Clock No. 25813

(C) First Final Flow Pressure 171.4 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1129.3 PSI @ (depth) 5384 w / Clock No. 25814

(E) Second Initial Flow Pressure 203.6 PSI AK1 Recorder No. Range

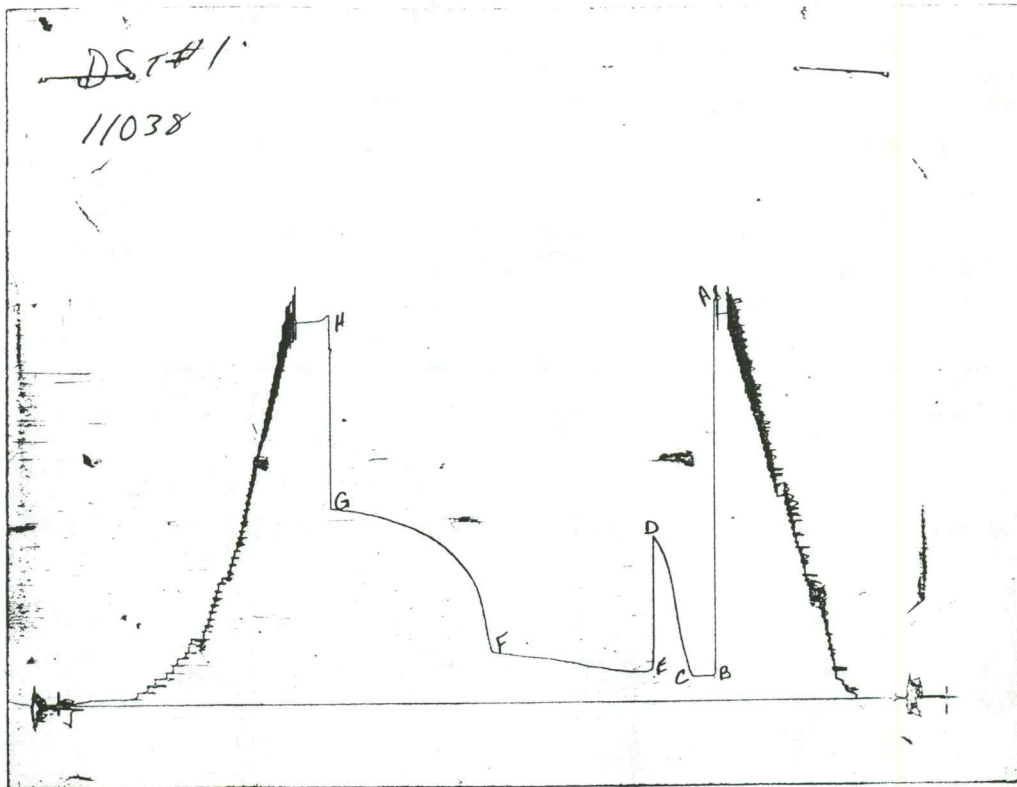
(F) Second Final Flow Pressure 336.9 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1334.1 PSI Initial Opening 15 Final Flow 120

(H) Final Hydrostatic Mud 2567.9 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2593	2594.3
(B) FIRST INITIAL FLOW PRESSURE	176	171.4
(C) FIRST FINAL FLOW PRESSURE	176	171.4
(D) INITIAL CLOSED-IN PRESSURE	1121	1129.3
(E) SECOND INITIAL FLOW PRESSURE	203	203.6
(F) SECOND FINAL FLOW PRESSURE	350	336.9
(G) FINAL CLOSED-IN PRESSURE	1297	1334.1
(H) FINAL HYDROSTATIC MUD	2554	2567.9

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

BEREXCO INC

DIANE #3-35

DST 1

35

28S

33W

HASKELL KS

ELEVATION:	2964	KB	EST. PAY	6	FT
DATUM:	-2421		ZONE TESTED:	MORROW	
TEST INTERVAL:	5343-5387		TIME INTERVALS:	15-30-120-120	
RECORDER DEPTH:	5384		VISCOSITY:	6.84	CP
BOTTOM HOLE TEMP:	125		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	117			
TOTAL FEET OF RECOVERY:	1150.00	CORRECTED PIPE FILLUP:	915.489	
TOTAL BARRELS OF RECOVERY:	13.78	CORR. BARRELS OF RECOVERY:	10.436	BBL
BARRELS IN DRILL PIPE:	12.43	API GRAVITY:	35	
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.368	
BARRELS IN DRILL COLLARS:	1.35			
GAS OIL RATIO:	8.46	CU.FT/BBL		
BUBBLE POINT PRESSURE:	78			
UNCORRECTED INITIAL PRODUCTION:			146.96	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			111.32	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			69.727	

INITIAL SLOPE	2475.58	PSI/CYCL	FINAL SLOPE	629.84	PSI/CYCLE
INITIAL P*	1565.23	PSI	FINAL P*	1540.58	PSI

TRANSMISSIBILITY	28.74	(MD.-FT./CP.)
PERMEABILITY	32.78	(MD.)
INDICATED FLOW CAPACITY	196.67	(MD.FT)
PRODUCTIVITY INDEX	0.03	(BARREL/DAY/PSI)
DAMAGE RATIO	0.35	
RADIUS OF INVESTIGATION	66.52	(FT,)
POTENTIOMETRIC SURFACE	1152.62	(FT.)
DRAWDOWN FACTOR	1.574	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	0.00	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	0.00	

CALCULATED RECOVERY ANALYSIS

DST

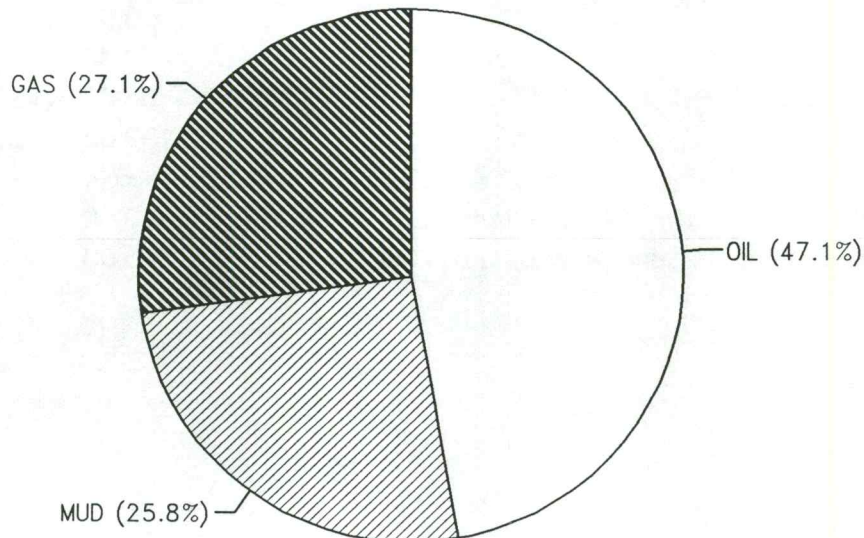
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TICKET #

6634

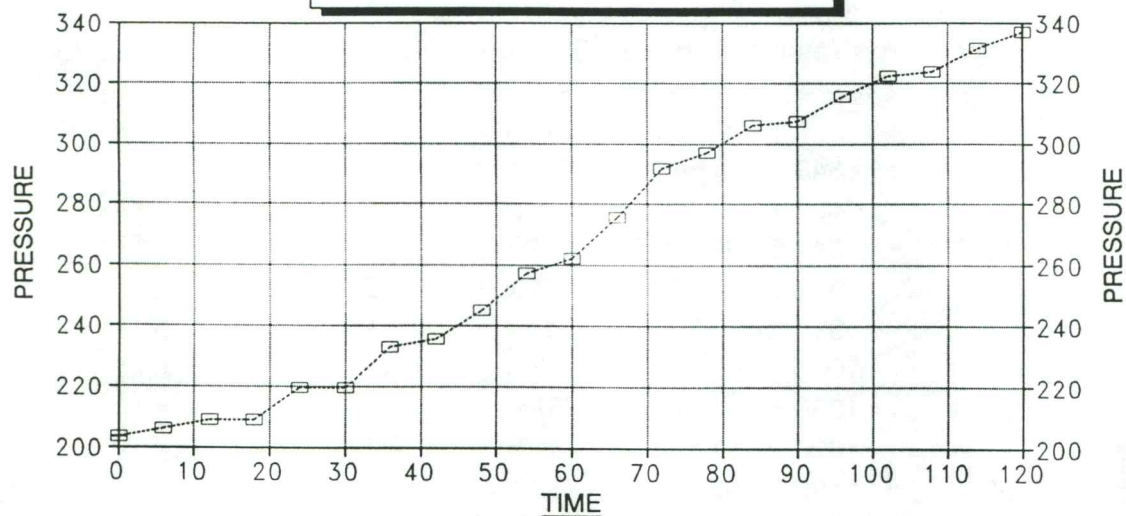
SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	%	WATER FEET	%	MUD FEET
DRILL 1	137	40	54.8	60	82.2	0	0	0	0
PIPE 2	737	25	184.25	45	331.65	0	0	30	221.1
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	276	25	69	45	124.2	0	0	30	82.8
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1150		308.05		538.05		0		303.9

			HRS OPEN	BBL/DAY
BBL OIL=	6.492285	*	2.25	69.25104
BBL WATER=	0	*		0
BBL MUD=	3.548934			
BBL GAS =	3.736701			



DELTA T DELTA P

FINAL FLOW / DST #1



DIANE #3-35

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

69.727

FINAL FLOW

RECORDER 11038

DST # 1

TIME(MIN) PRESSURE <> PRESSURE

0	203.6	203.6
6	206.3	2.7
12	208.9	2.6
18	208.9	0.0
24	219.7	10.8
30	219.7	0.0
36	233.1	13.4
42	235.7	2.6
48	245.1	9.4
54	257.1	12.0
60	262.4	5.3
66	275.8	13.4
72	291.7	15.9
78	297.1	5.4
84	306.4	9.3
90	307.7	1.3
96	315.7	8.0
102	322.3	6.6
108	323.6	1.3
114	331.6	8.0

DIANE #3-35
INITIAL

DST #1					
SHUTIN		-----			
15	INITIAL FLOW TIME	SLOPE	2475.6	PSI/CYCLE	
		P*	1565.23	PSI	

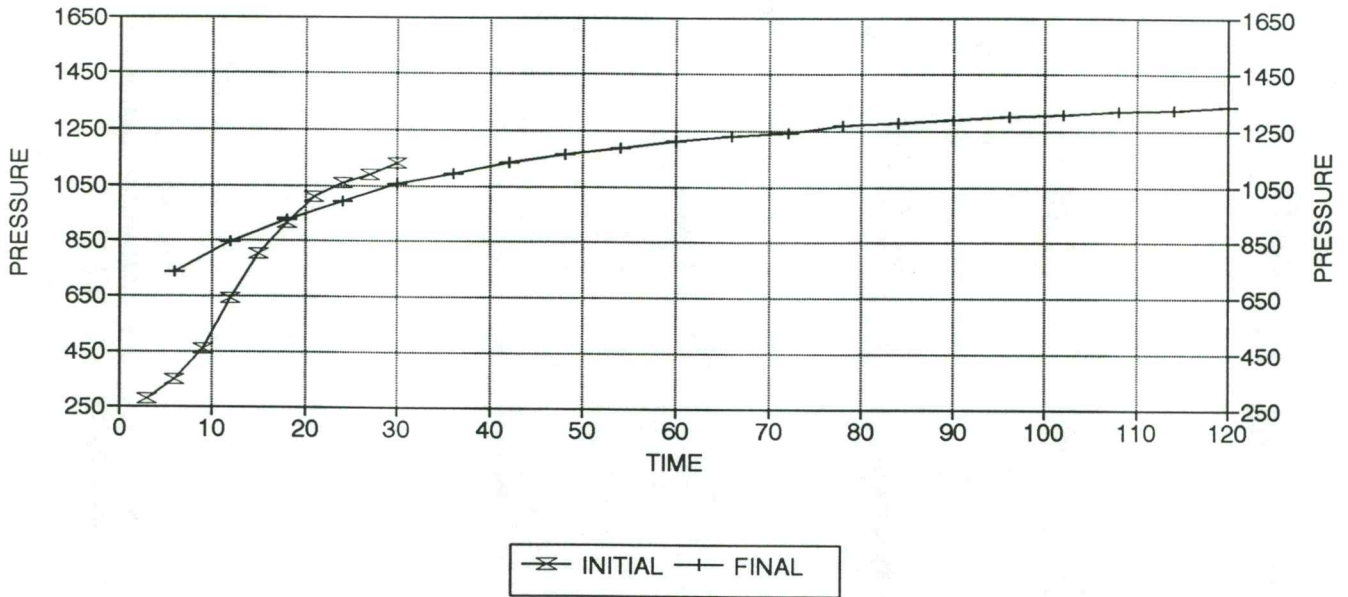
		Log	<>		
	TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
	-----	-----	-----	-----	-----
	3	277.1	0.778	277.1	6
	6	348.8	0.544	71.7	4
	9	462.1	0.426	113.3	3
	12	641.5	0.352	179.4	2
	15	802.1	0.301	160.6	2
	18	914.2	0.263	112.1	2
	21	1006.8	0.234	92.6	2
	24	1058.6	0.211	51.8	2
X	27	1090.2	0.192	31.6	2
X	30	1129.3	0.176	39.1	2

DIANE #3-35
FINAL

			DST #1		
			SHUTIN		
135	TOTAL FLOW TIME		SLOPE	629.8	PSI/CYCLE
			P*	1540.6	PSI

			Log	< >	
			Horn T	PRESSURE	Horn T
			-----	-----	-----
	6	734.3	1.371	734.3	24
	12	849.4	1.088	115.1	12
	18	924.4	0.929	75.0	9
	24	994.2	0.821	69.8	7
	30	1056.1	0.740	61.9	6
	36	1094.1	0.677	38.0	5
	42	1133.1	0.625	39.0	4
	48	1163.3	0.581	30.2	4
	54	1186.0	0.544	22.7	4
	60	1211.2	0.512	25.2	3
	66	1231.3	0.484	20.1	3
	72	1242.7	0.459	11.4	3
	78	1266.5	0.436	23.8	3
	84	1279.1	0.416	12.6	3
	90	1290.4	0.398	11.3	3
X	96	1300.4	0.381	10.0	2
	102	1308.0	0.366	7.6	2
	108	1320.6	0.352	12.6	2
	114	1323.1	0.339	2.5	2
X	120	1334.4	0.327	11.3	2

DIANE #3-35 / DST #1 DELTA T DELTA P



HORNER PLOT

