

15-32-26W

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# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data API# 15-119-20873

Well Name WILSON 15-1 Test No. 1 Date 9/9/93  
 Company ENRON OIL & GAS COMPANY Zone CHESTER  
 Address 20 N BROADWAY #830 OKLAHOMA CITY OK 73102 Elevation 2392  
 Co. Rep./Geo. SAM HUMMEL Cont. ABERCROMBIE DRLG RIG #5 Est. Ft. of Pay 16  
 Location: Sec. 15 Twp. 32S Rge. 26W Co. MEADE State KS

Interval Tested 5452-5513 Drill Pipe Size 4.5" XH  
 Anchor Length 61 Wt. Pipe I.D. - 2.7 Ft. Run 373  
 Top Packer Depth 5447 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
 Bottom Packer Depth 5452 Mud Wt. 9.3 lb/Gal.  
 Total Depth 5513 Viscosity 53 Filtrate 9.5

Tool Open @ 7:00 PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 30 SECONDS KCC  
GAS TO SURFACE IN 13 MINUTES-GAUGED @133 MCF/DAY  
 Final Blow BOTTOM OF BUCKET AS TOOL OPENED OCT 19  
GAUGED @211 MCF/DAY CONFIDENTIAL

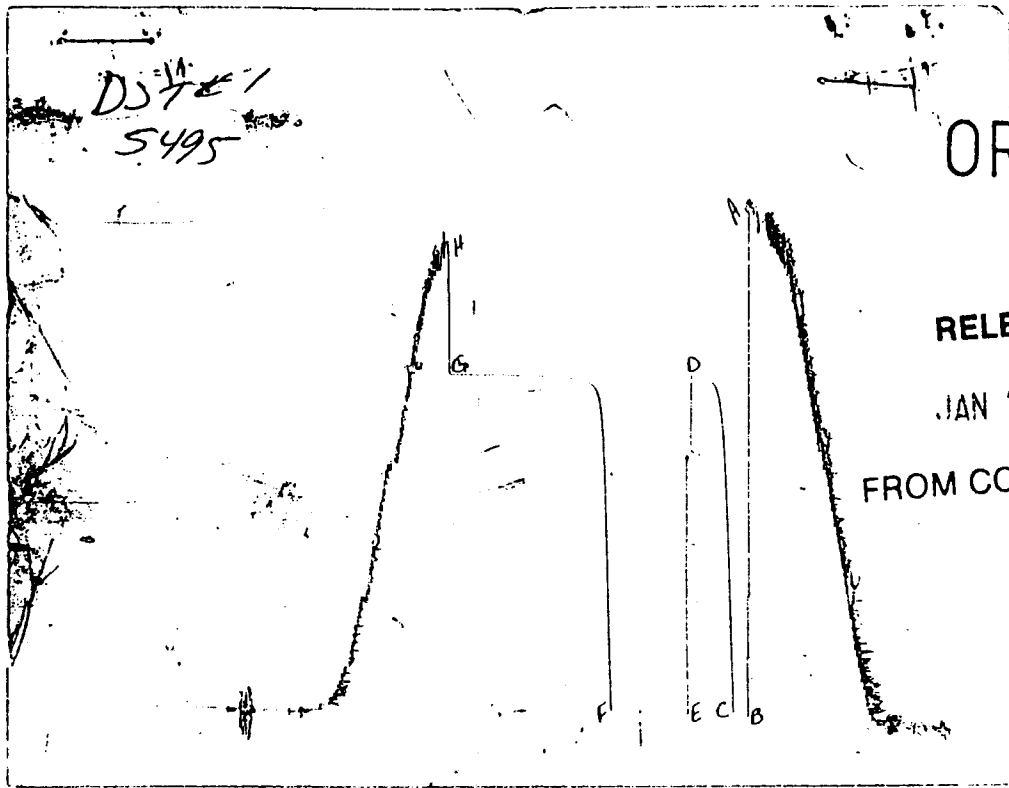
Recovery - Total Feet 247 Flush Tool? NO **RELEASED**

Rec. 247 Feet of GASSY DRILLING MUD- 8% GAS/ 92% MUD JAN 1 1 1996  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ **FROM CONFIDENTIAL**  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 116 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2796.3 PSI AK1 Recorder No. 5495 Range 4200  
 (B) First Initial Flow Pressure 64.5 PSI @ (depth) 5456 w / Clock No. 25813  
 (C) First Final Flow Pressure 91.5 PSI AK1 Recorder No. 11038 Range 5075  
 (D) Initial Shut-in Pressure 1921.6 PSI @ (depth) 5500 w / Clock No. 25814  
 (E) Second Initial Flow Pressure 87.3 PSI AK1 Recorder No. \_\_\_\_\_  
 (F) Second Final Flow Pressure 105.9 PSI @ (depth) \_\_\_\_\_  
 (G) Final Shut-in Pressure 1938.7 PSI Initial Opening 15 Flow 60  
 (H) Final Hydrostatic Mud 2639.8 PSI Initial Shut-in 30 Final Shut-in 120

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 STATE CORPORATION COMMISSION  
 OCT 22 1993  
 CONSERVATION DIVISION  
 Wichita, Kansas



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This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2773	2796.3
(B) FIRST INITIAL FLOW PRESSURE	82	64.5
(C) FIRST FINAL FLOW PRESSURE	95	91.5
(D) INITIAL CLOSED-IN PRESSURE	1928	1921.6
(E) SECOND INITIAL FLOW PRESSURE	95	87.3
(F) SECOND FINAL FLOW PRESSURE	95	105.9
(G) FINAL CLOSED-IN PRESSURE	1953	1938.7
(H) FINAL HYDROSTATIC MUD	2632	2639.8

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COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.  
ENRON OIL & GAS CO

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WILSON 15-1

DST 1

15 32S 26W

MEADE

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ELEVATION:	2392 KB	EST. PAY:	16 FT.
DATUM:	-3065	ZONE TESTED:	CHESTER
TEST INTERVAL:	5452-5513	TIME INTERVALS:	15-30-60-120
RECORDER DEPTH:	5456	VISCOSITY:	0.01655 CP
BOTTOM HOLE TEMP:	116	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9972	GAS GRAVITY:	0.6785

\*\*\*\*\*

TEMPERATURE RANKINE:	576.00 &
TRANSMISSIBILITY:	3629.44 Kh/%
THEORITICAL FLOW CAPICITY:	60.07 Kh
AVERAGE EFFECTIVE PERMEABILITY:	3.75 K(md.)
RADIUS OF INVESTIGATION:	16.78 FT.
DAMAGE RATIO:	10.97
ABSOLUTE OPEN FLOW(MAX)	211.62 MCFD
ABSOLUTE OPEN FLOW(MIN)	211.31 MCFD
THEORITICAL OPEN FLOW(MAX)	2322.28 MCFD
THEORITICAL OPEN FLOW(MIN)	2318.87 MCFD
POTENTIOMETRIC SURFACE	0.00 (FT.)

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INITIAL SHUT-IN VALUES:

SLOPE	86456.45
THEORETICAL STATIC PRESSURE	1944

FINAL SHUT-IN VALUES:

SLOPE	54663.28
THEORETICAL STATIC PRESSURE	1953

DRAWDOWN FACTOR: -0.45 (%)

WILSON #15-1  
INITIAL

DST #1  
SHUTIN

15 TOTAL FLOW TIME Slope 86456.45 psi/cycle  
P \* 1944 psi

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	TIME(MIN)	Pws (psi)	Log <> Horn T	PRESSURE	Horn T
	2.3	1730.2	0.876	1730.2	8
	3.1	1810.8	0.766	80.6	6
	10.5	1894.3	0.385	83.5	2
	15.5	1914.8	0.294	20.5	2
X	22.2	1917.6	0.224	2.8	2
	24.2	1919.8	0.209	2.2	2
X	27.3	1921.6	0.190	1.8	2

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WILSON #15-1  
FINAL

DST #1  
SHUTIN

75 TOTAL FLOW TIME Slope 54663.28 psi/cycle  
P \* 1953 psi

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	Pws (psi)	Log <> Horn T	PRESSURE	Horn T	
	3.2	1526.6	1.388	1526.6	24
	4	1756.4	1.296	229.8	20
	10.8	1875.2	0.900	118.8	8
	16.4	1899.3	0.746	24.1	6
	23.4	1903.5	0.624	4.2	4
	29.9	1912.4	0.545	8.9	4
	36.3	1919.8	0.487	7.4	3
	42.6	1924.7	0.441	4.9	3
	48.8	1926.7	0.404	2.0	3
X	55.5	1928.5	0.371	1.8	2
	62.2	1929.0	0.344	0.5	2
	69.4	1930.4	0.318	1.4	2
	74.9	1931.6	0.301	1.2	2
	81.6	1932.4	0.283	0.8	2
	87.2	1933.2	0.270	0.8	2
	95.4	1934.3	0.252	1.1	2
	102.2	1935.7	0.239	1.4	2
	108.4	1936.2	0.228	0.5	2
	114.6	1937.5	0.219	1.3	2
X	117	1938.7	0.215	1.2	2

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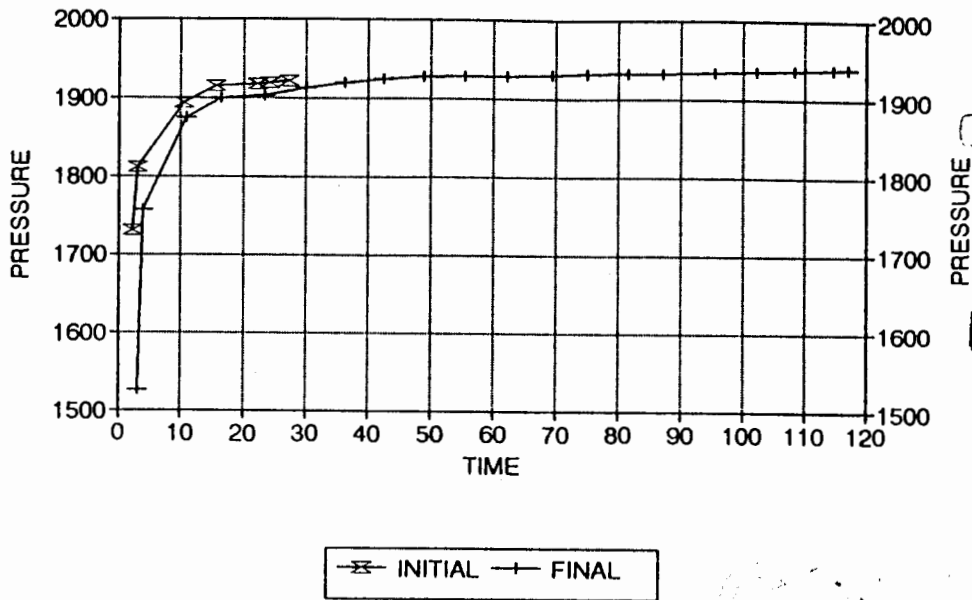
# WILSON #15-1 / DST #1 DELTA T DELTA P

KCC

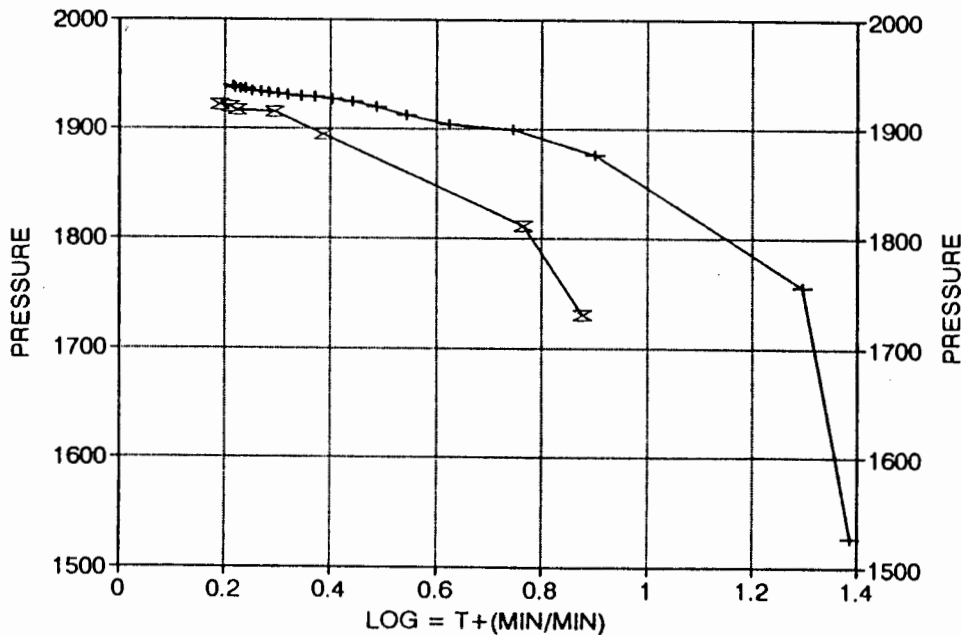
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## HORNER PLOT



FLUID SAMPLER DATA

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Ticket No.: 6078

Date: 9/9/93

Company: ENRON OIL & GAS COMPANY

Lease: WILSON 15-1

Test No.: 1

County: MEADE

Sec.: 15

Twp.: 32S

Rng.: 26W

SAMPLER RECOVERY

Gas 10.7 CU F

Oil

Mud

Water

Other

Pressure 1800

TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3500

Resistivity ohms@ F

Viscosity 53

Mud Wt. 9.3

Filtrate 9.5

Other

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity 1.8 ohms@ 76 F

Chlorides 4100 ppm

GAS VOLUME REPORT

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ENRON OIL & GAS COMPANY

KCC

WILSON 15-1

OCT 19

DST # 1

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MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
13	3	0.75	133	10	5	0.75	175
				20	6	0.75	194
				30	7	0.75	211
				40	7	0.75	211
				50	7.5	0.75	219
				60	7	0.75	211

CO

Remarks: GAS TO SURFACE IN 13 MINUTES-GAS WILL BURN

