

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FORESTER #1 Test No. 1 Date 10/12/93
Company CHARTER PRODUCTION COMPANY Zone SWOPE
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 1809
Co. Rep./Geo. CHUCK SCHMALTZ Cont. EAGLE DRLG RIG #1 Est. Ft. of Pay 2
Location: Sec. 19 Twp. 33S Rge. 20W Co. COMANCHE State KS

Interval Tested _____ 4725-4806 Anchor Length _____ 81 Top Packer Depth _____ 4720 Bottom Packer Depth _____ 4725 Total Depth _____ 4806	Drill Pipe Size _____ 4.5" XH Wt. Pipe I.D. - 2.7 Ft. Run _____ Drill Collar — 2.25 Ft. Run _____ 479 Mud Wt. _____ 9.2 lb/Gal. Viscosity _____ 49 Filtrate 10.4
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Tool Open @ 2:30 AM Initial Blow WEAK SURFACE BLOW SLOWLY BUILT OFF BOTTOM IN 45 MINUTE
 ISI: bled off blow - no return
 Final Blow FAIR TO STRONG BLOW OFF BOTTOM IN 1 MINUTE
 FSI: bled off blow - no return

Recovery - Total Feet 40 Flush Tool? NO

Rec. <u>950</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>40</u>	Feet of <u>GASSY OIL CUT MUD-10% GAS/ 3% OIL/ 87% MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 127 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 2277.8 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 45.6 PSI @ (depth) 4796 w / Clock No. 26191

(C) First Final Flow Pressure 55.3 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 314.6 PSI @ (depth) 4801 w / Clock No. 26199

(E) Second Initial Flow Pressure 66.9 PSI AK1 Recorder No. _____ Range _____

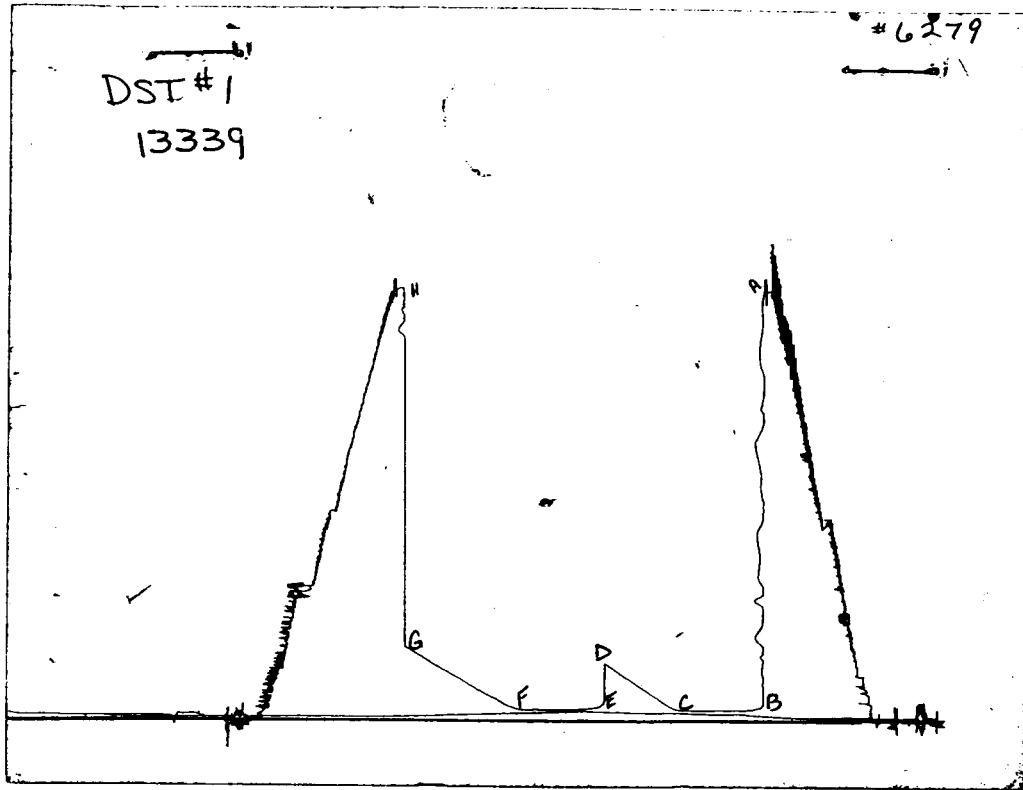
(F) Second Final Flow Pressure 66.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 401.2 PSI Initial Opening 60 Final Flow 60

(H) Final Hydrostatic Mud 2250.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2273	2277.8
(B) FIRST INITIAL FLOW PRESSURE	41	45.6
(C) FIRST FINAL FLOW PRESSURE	52	55.3
(D) INITIAL CLOSED-IN PRESSURE	311	314.6
(E) SECOND INITIAL FLOW PRESSURE	62	66.9
(F) SECOND FINAL FLOW PRESSURE	62	66.9
(G) FINAL CLOSED-IN PRESSURE	395	401.2
(H) FINAL HYDROSTATIC MUD	2253	2250.4

DST #

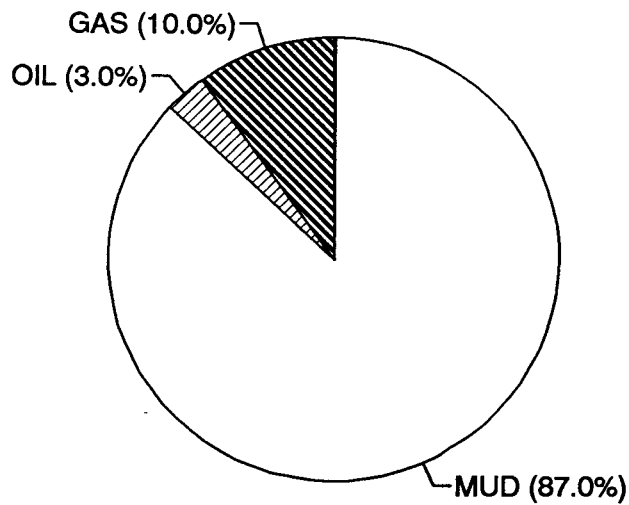
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TICKET

6279

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	40	10	4	3	1.2	0	0	87	34.8
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	40	10.00	4	3.00	1.2	0.00	0	87	34.8

			HRS OP	BBL/DAY
BBL OIL=	0.005868	*	2	0.070416
BBL WATER=	0	*		0
BBL MUD=	0.170172			
BBL GAS=	0.01956			



MUD
OIL
GAS
WTR

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6279

Well Name & No. <u>Forester #1</u>	Test No. <u>1</u>	Date <u>10/12/93</u>
Company <u>Charter Production Company</u>	Zone Tested <u>Swope</u>	
Address <u>224 E. Douglas Suite 400 Wichita, KS. 67202</u>	Elevation <u>1809 (GL)</u>	
Co. Rep./Geo. <u>Chuck Smith Schmaltz</u>	Cont. <u>Eagle #1</u>	Est. Ft. of Pay <u>2'</u>
Location: Sec. <u>19</u> Twp. <u>33 S</u> Rge. <u>20 W</u>	Co. <u>Comanche</u>	State <u>KS</u>
No. of Copies <u>Normal</u>	Distribution Sheet <u>Yes</u> <u>X</u> No <u>Turnkey</u> <u>Yes</u> <u>X</u> No <u>Evaluation</u>	

Interval Tested 4725 - 4806 Drill Pipe Size 4 1/2" XH
 Anchor Length 81' Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4720 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4725 Wt. Pipe I.D. — 2.7 Ft. Run —
 Total Depth 4806 Drill Collar — 2.25 Ft. Run 479'
 Mud Wt. 9.2 lb / gal. Viscosity 49 Filtrate 10.4
 Tool Open @ 2:30 am. Initial Blow Weak surface blow slowly built off bottom
in 45 mins. IST: Bled off blow - no return.
 Final Blow Fair to strong blow off bottom in 1 min.
FST: Bled off blow - no return.

Recovery — Total Feet 40' Feet of Gas in Pipe 950' Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>40'</u>	Feet Of <u>GOCM</u>	<u>10</u> %gas	<u>3</u> %oil	<u>—</u> %water	<u>87</u> %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 127° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud 2273 PSI AK1 Recorder No. 13309 Range 4700
 (B) First Initial Flow Pressure 41 PSI @ (depth) 4796 w/Clock No. 26191
 (C) First Final Flow Pressure 52 PSI AK1 Recorder No. 13339 Range 4025
 (D) Initial Shut-In Pressure 311 PSI @ (depth) 4801 w/Clock No. 26199
 (E) Second Initial Flow Pressure 62 PSI AK1 Recorder No. — Range —
 (F) Second Final Flow Pressure 62 PSI @ (depth) — w/Clock No. —
 (G) Final Shut-In Pressure 395 PSI Initial Opening 60 Test 600.00
 (H) Final Hydrostatic Mud 2253 PSI Initial Shut-In 60 Jars X 20000

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Final Flow 60 Safety Joint X 50.00
 Final Shut-In 90 Straddle _____
 Circ. Sub X N/C
 Sampler _____
 Extra Packer _____
 Other _____

Approved By Chuck Schmaltz
 Our Representative Rod Steinbrink

DST#1

13309

62794

