

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name J.R. EWING #1 Test No. 1 Date 2/24/94  
Company ARGENT EXPLORATION INC. Zone KS CITY-70'  
Address 110 S MAIN #810 WICHITA KS 67202 Elevation 2644  
Co. Rep./Geo. SCOTT OATSDEAN Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay 5  
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested 3979-3995 Drill Pipe Size 4.5 XH  
Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run 633  
Top Packer Depth 3974 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3979 Mud Wt. 8.8 lb/Gal.  
Total Depth 3995 Viscosity 46 Filtrate 10

Tool Open @ 5:40 PM Initial Blow SURFACE BLOW BUILT TO 3.5"  
ISI: BLED OFF BLOW- WEAK SURFACE BLOW AFTER 5 MINUTES DIED IN 10 MINUTES  
Final Blow WEAK SURFACE BLOW BUILT TO 4"  
FSI: BLED OFF BLOW - NO RETURN

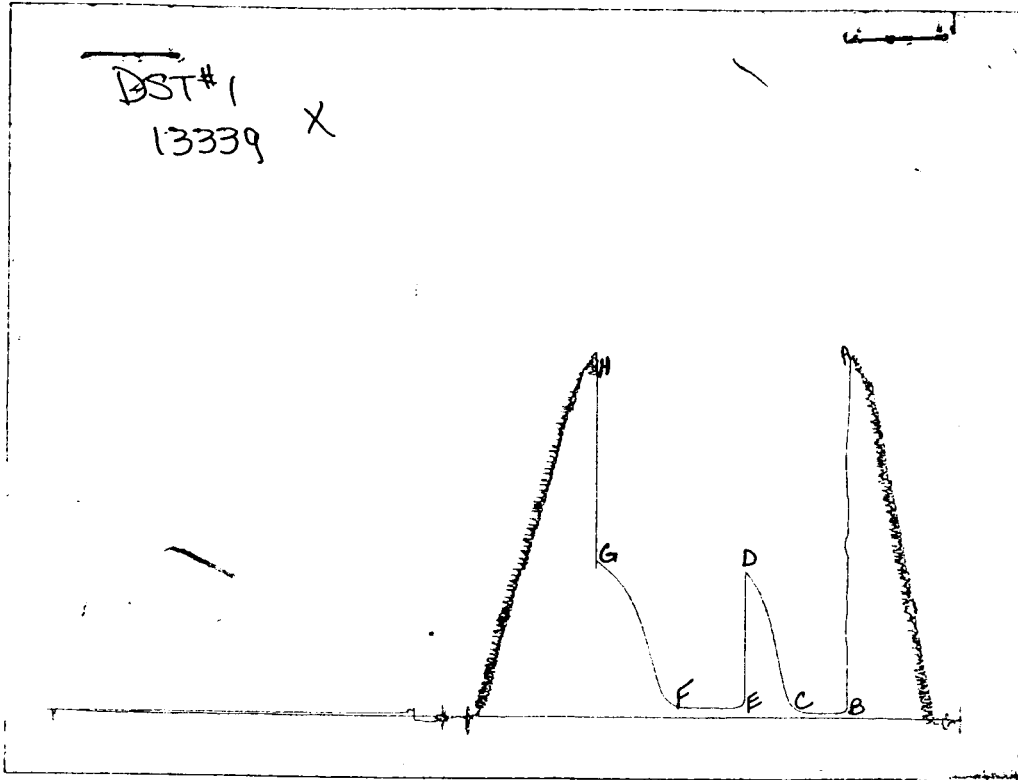
Recovery - Total Feet 125 Flush Tool? NO  
Rec. 125 Feet of MUD CUT OIL- 50% OIL / 50% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 110 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 1895.7 PSI AK1 Recorder No. 13309 Range 4700  
(B) First Initial Flow Pressure 28.1 PSI @ (depth) 3985 w / Clock No. 19960  
(C) First Final Flow Pressure 30.1 PSI AK1 Recorder No. 13339 Range 4025  
(D) Initial Shut-in Pressure 772.5 PSI @ (depth) 3990 w / Clock No. 22992  
(E) Second Initial Flow Pressure 63.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 56.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 823.6 PSI Initial Opening 30 Final Flow 45  
(H) Final Hydrostatic Mud 1876.7 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1902	1895.7
(B) FIRST INITIAL FLOW PRESSURE	41	28.1
(C) FIRST FINAL FLOW PRESSURE	41	30.1
(D) INITIAL CLOSED-IN PRESSURE	789	772.5
(E) SECOND INITIAL FLOW PRESSURE	72	63.4
(F) SECOND FINAL FLOW PRESSURE	72	56.1
(G) FINAL CLOSED-IN PRESSURE	849	823.6
(H) FINAL HYDROSTATIC MUD	1892	1876.7

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

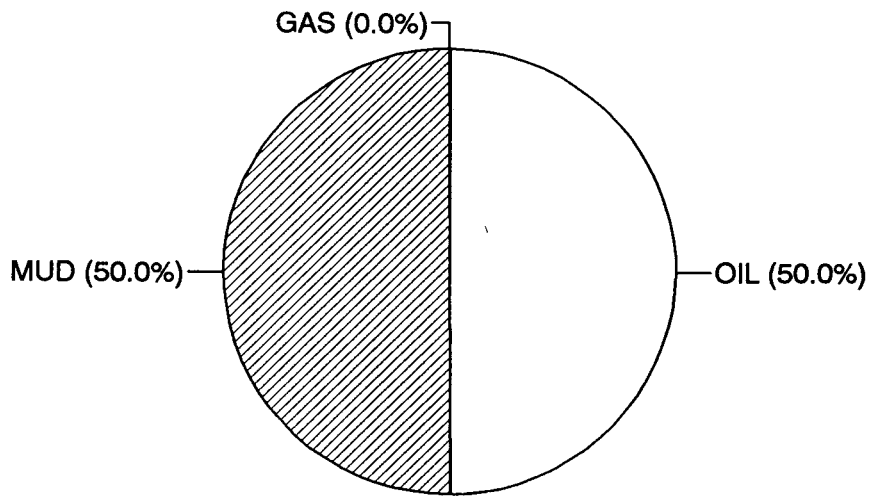
1

TICKET #

6824

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	125	0		50	62.5		0	50	62.5
2							0		0
3							0		0
4							0		0
5							0		0
TOTAL	125	0	0	50	62.5	0	0	50	62.5

	BBL	HRS OPEN	BBL/DAY
BBL OIL=	0.4375	*	1.25
BBL WATER=	0	*	0
BBL MUD=	0.4375		
BBL GAS=	0		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6824

Well Name & No. <u>J.R. Ewing #1</u>	Test No. <u>1</u>	Date <u>2-24-94</u>
Company <u>Argent Exploration, Inc.</u>	Zone Tested <u>KC 70' Zone</u>	
Address <u>110 S. Main Suite 810 Wichita, KS. 67202</u>	Elevation <u>2644 (KB)</u>	
Co. Rep./Geo. <u>Scott Oatsdean</u> cont. <u>Abercrombie #8</u>	Est. Ft. of Pay <u>5'</u>	
Location: Sec. <u>8</u> Twp. <u>16<sup>S</sup></u> Rge. <u>27<sup>W</sup></u> Co. <u>Lane</u> state <u>KS.</u>		
No. of Copies <u>Normal</u> Distribution Sheet <u>Yes X</u> No <u>Turnkey</u> <u>Yes X</u> No <u>Evaluation</u>		

Interval Tested <u>3979 - 3995</u>	Drill Pipe Size <u>4 1/2" x H</u>
Anchor Length <u>16'</u>	Top Choke - 1" _____ Bottom Choke - 3/4" _____
Top Packer Depth <u>3974</u>	Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
Bottom Packer Depth <u>3979</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>633'</u>
Total Depth <u>3995</u>	Drill Collar - 2.25 Ft. Run _____
Mud Wt. <u>8.8</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>10.0</u>

Tool Open @ 5:40 am Initial Blow Surface blow built to 3 1/2"  
 ISI: Bled off blow - weak surface blow after 5 mins died in 10 mins  
 Final Blow Weak surface blow built to 4"  
 FSI: Bled off blow - no return.

Recovery - Total Feet <u>125'</u>	Feet of Gas In Pipe _____	Flush Tool? <u>No</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>125'</u> Feet Of <u>MCD</u>	%gas <u>50</u> %oil _____ %water <u>50</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 110° °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1,500 ppm System

(A) Initial Hydrostatic Mud <u>1902</u> PSI	AK1 Recorder No. <u>13309</u> Range <u>4700</u>
(B) First Initial Flow Pressure <u>41</u> PSI	@ (depth) <u>3985</u> w/Clock No. <u>19960</u>
(C) First Final Flow Pressure <u>41</u> PSI	AK1 Recorder No. <u>13339</u> Range <u>4025</u>
(D) Initial Shut-In Pressure <u>789</u> PSI	@ (depth) <u>3990</u> w/Clock No. <u>22992</u>
(E) Second Initial Flow Pressure <u>72</u> PSI	AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>72</u> PSI	@ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure <u>849</u> PSI	Initial Opening <u>30</u> Test <u>X</u> <u>600.00</u>
(H) Final Hydrostatic Mud <u>1892</u> PSI	Initial Shut-In <u>45</u> Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow <u>45</u>	Safety Joint <u>X</u> <u>50.00</u>
Final Shut-In <u>60</u>	Straddle _____
	Circ. Sub <u>X</u> <u>N/C</u>
	Sampler _____
	Extra Packer _____
	Other _____

Approved By Scott A. Oatsdean  
 Our Representative Rod Steinbrink

TOTAL PRICE \$ 650.00

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name J.R. EWING #1 Test No. 2 Date 2/24/94  
Company ARGENT EXPLORATION INC. Zone KS CITY-140'  
Address 110 S MAIN #810 WICHITA KS 67202 Elevation 2644  
Co. Rep./Geo. SCOTT OATSDEAN Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay 5  
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested	<u>4050-4080</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>30</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>633</u>
Top Packer Depth	<u>4045</u>	Drill Collar - 2.25 Ft. Run	<u>        </u>
Bottom Packer Depth	<u>4050</u>	Mud Wt.	<u>8.9</u> lb/Gal.
Total Depth	<u>4080</u>	Viscosity	<u>45</u> Filtrate <u>9.5</u>

Tool Open @ 10:20 PM Initial Blow STRONG BLOW OFF BOTTOM IN 45 SECONDS  
ISI: BLED OFF BLOW-FAIR TO STRONG BUILT TO BOTTOM IN 1.5 MIN  
Final Blow FAIR TO STRONG OFF BOTTOM IN 1 MINUTE-GAS TO SURFACE  
IN 5 MINUTES (T.S.T.M.) / GAS IS FLAMMABLE-BLUE FLAME-RICH SMELL

Recovery - Total Feet 3050 Flush Tool? NO

Rec.          Feet of GAS TO SURFACE SECOND FLOW PERIOD  
Rec. 3050 Feet of CLEAN GASSY OIL-25% GAS 75% OIL  
Rec.          Feet of REVERSED OUT APPROXIMATELY 33 BBLs.  
Rec.          Feet of           
Rec.          Feet of         

BHT 112 °F Gravity 38 °API @ 63 °F Corrected Gravity 37.7 °API  
RW          @          °F Chlorides          ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 1982.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 409.5 PSI @ (depth) 4070 w / Clock No. 19960

(C) First Final Flow Pressure 818.6 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1145.5 PSI @ (depth) 4075 w / Clock No. 22992

(E) Second Initial Flow Pressure 933.8 PSI AK1 Recorder No.          Range         

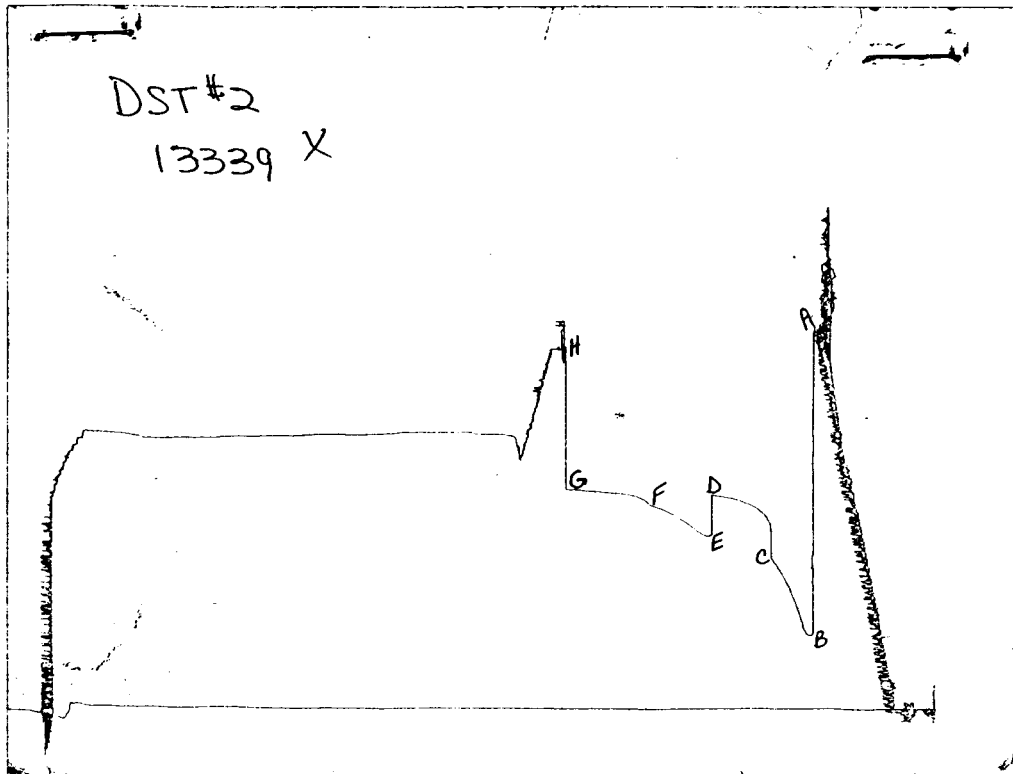
(F) Second Final Flow Pressure 1094.3 PSI @ (depth)          w / Clock No.         

(G) Final Shut-in Pressure 1175.6 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1911.7 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1962	1982.9
(B) FIRST INITIAL FLOW PRESSURE	395	409.5
(C) FIRST FINAL FLOW PRESSURE	799	818.6
(D) INITIAL CLOSED-IN PRESSURE	1130	1145.5
(E) SECOND INITIAL FLOW PRESSURE	909	933.8
(F) SECOND FINAL FLOW PRESSURE	1070	1094.3
(G) FINAL CLOSED-IN PRESSURE	1150	1175.6
(H) FINAL HYDROSTATIC MUD	1902	1911.7



INITIAL FLOW

RECORDER 13339

DST # 2

TIME(MIN)      PRESSURE <> PRESSURE

---

0	409.5	409.5
3	426.1	16.6
6	478.7	52.6
9	543.1	64.4
12	595.2	52.1
15	643.3	48.1
18	688.4	45.1
21	723.4	35.0
24	756.5	33.1
27	791.6	35.1
30	818.6	27.0

FINAL FLOW

RECORDER 13339

DST # 2

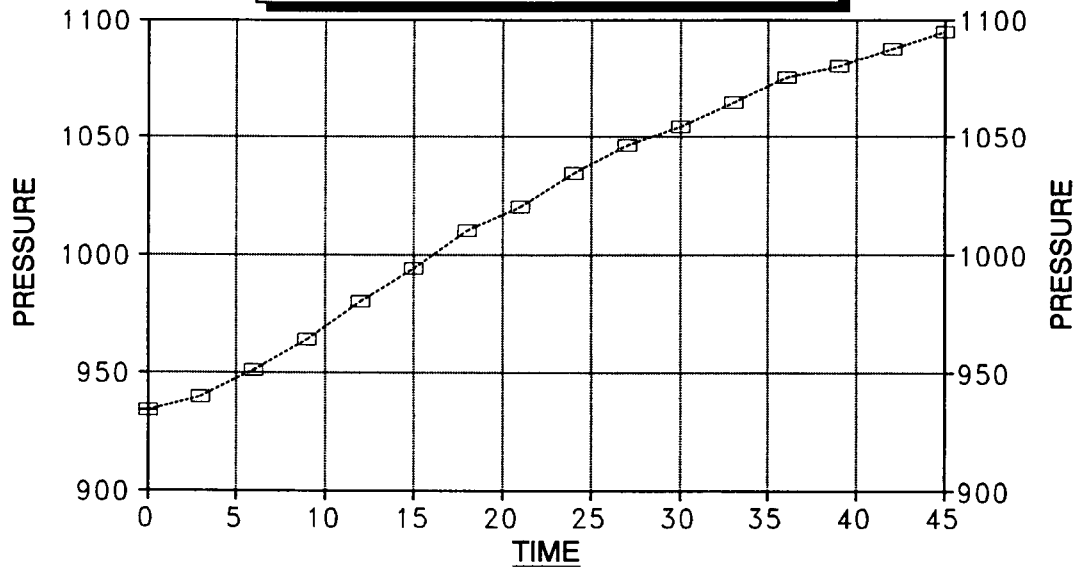
TIME(MIN)      PRESSURE <> PRESSURE

---

0	933.8	933.8
3	939.8	6.0
6	950.9	11.1
9	963.9	13.0
12	979.9	16.0
15	993.9	14.0
18	1009.9	16.0
21	1020.0	10.1
24	1034.0	14.0
27	1046.1	12.1
30	1054.1	8.0
33	1064.2	10.1
36	1075.2	11.0
39	1080.2	5.0
42	1087.3	7.1
45	1094.3	7.0

# DELTA T DELTA P

FINAL FLOW / DST #2



---□--- J.R. EWING #1

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

242.830

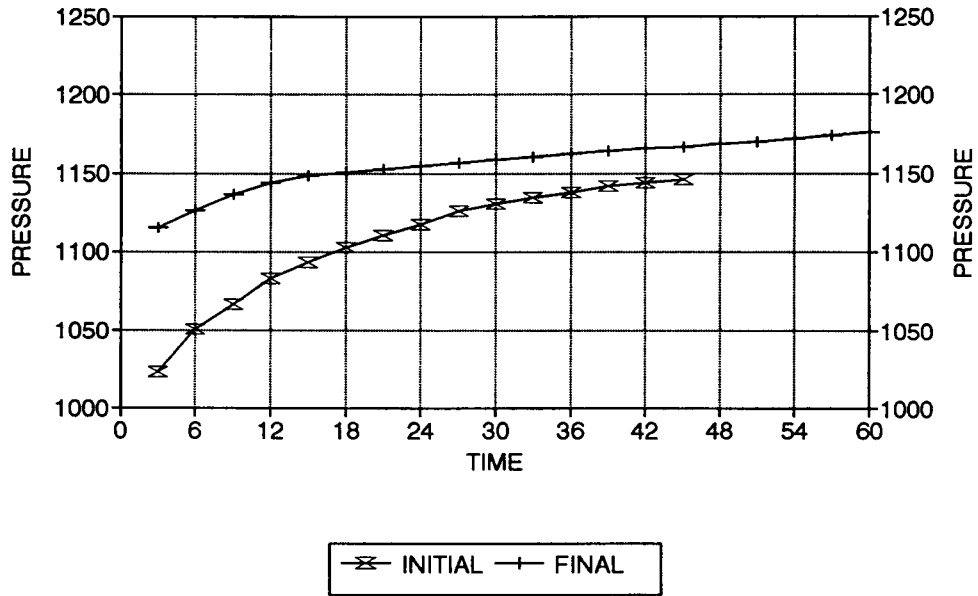
J.R. EWING #1  
INITIAL

		DST #2		SHUTIN	
30 INITIAL FLOW TIME		SLOPE	215.3	PSI/CYCLE	
		P*	1193.26	PSI	
		-----			
		Log	<>		
TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T	
-----	-----	-----	-----	-----	
	3	1023.0	1.041	1023.0	11
	6	1050.1	0.778	27.1	6
	9	1066.2	0.637	16.1	4
	12	1083.2	0.544	17.0	4
	15	1093.3	0.477	10.1	3
	18	1102.3	0.426	9.0	3
X	21	1110.3	0.385	8.0	2
	24	1117.3	0.352	7.0	2
	27	1125.4	0.325	8.1	2
	30	1130.4	0.301	5.0	2
	33	1134.4	0.281	4.0	2
	36	1137.4	0.263	3.0	2
	39	1141.5	0.248	4.1	2
	42	1143.5	0.234	2.0	2
X	45	1145.5	0.222	2.0	2

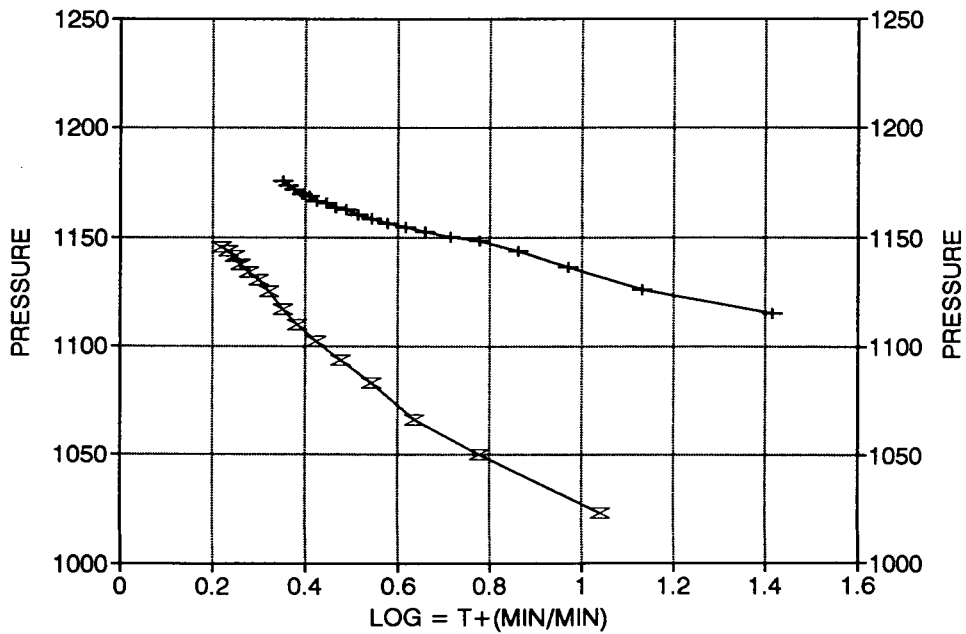
J.R. EWING  
FINAL

		DST #2		SHUTIN	
75 TOTAL FLOW TIME		SLOPE	59.4	PSI/CYCLE	
		P*	1192.9	PSI	
		-----			
		Log	<>		
		Horn T	PRESSURE	Horn T	
		-----	-----	-----	
	3	1115.3	1.415	1115.3	26
	6	1126.4	1.130	11.1	14
	9	1136.4	0.970	10.0	9
	12	1143.5	0.860	7.1	7
	15	1148.5	0.778	5.0	6
X	18	1150.5	0.713	2.0	5
	21	1152.5	0.660	2.0	5
	24	1154.5	0.615	2.0	4
	27	1156.5	0.577	2.0	4
	30	1158.5	0.544	2.0	4
	33	1160.5	0.515	2.0	3
	36	1162.5	0.489	2.0	3
	39	1163.6	0.466	1.1	3
	42	1165.6	0.445	2.0	3
	45	1166.6	0.426	1.0	3
X	48	1168.6	0.409	2.0	3
	51	1169.6	0.393	1.0	2
	54	1171.6	0.378	2.0	2
	57	1173.6	0.365	2.0	2
	60	1175.6	0.350	2.0	2

# J.R. EWING #1 / DST #2 DELTA T DELTA P



# HORNER PLOT



CALCULATED RECOVERY ANALYSIS

DST

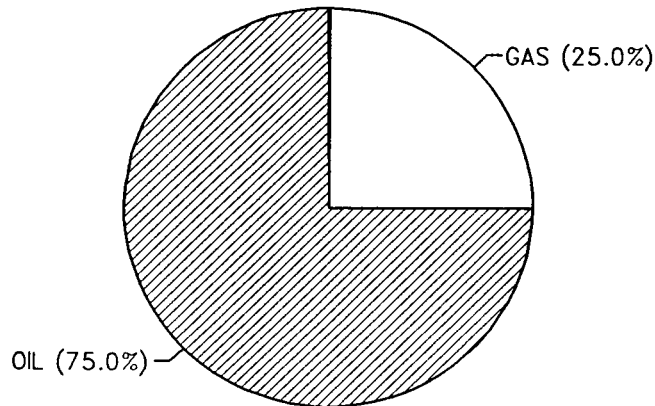
2

TICKET #

6825

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	2417	25	604.25	75	1812.75	0	0	0	0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1	633	25	158.25	75	474.75	0	0	0	0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1			0		0		0		0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	3050		762.5		2287.5		0		0

BBL OIL=	29.100555	*	HRS OPEN	1.25	BBL/DAY	558.73066
BBL WATER=	0	*				0
BBL MUD=	0					
BBL GAS =	9.700185					



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6825

Well Name & No.	J.R. Ewing #1	Test No.	2	Date	2-24-94						
Company	Argent Exploration, Inc.	Zone Tested	KC	140' Zone							
Address	110 S. Main Suite 810 Wichita, KS. 67202	Elevation	<del>2644</del>	2644 (KB)							
Co. Rep./Geo.	Scott Oatsdean	cont.	Abercrombie #8	Est. Ft. of Pay	5'						
Location: Sec.	8	Twp.	16 <sup>S</sup>	Rge.	27 <sup>W</sup>	Co.	Lane	State	KS.		
No. of Copies	Normal	Distribution Sheet	Yes	X	No	Turnkey	Yes	X	No	yes	Evaluation

Interval Tested	4050 - 4080	Drill Pipe Size	4 1/2" XH			
Anchor Length	30'	Top Choke - 1"	Bottom Choke - 3/4"			
Top Packer Depth	4045	Hole Size - 7 7/8"	Rubber Size - 6 3/4"			
Bottom Packer Depth	4050	Wt. Pipe I.D. - 2.7 Ft. Run	633'			
Total Depth	4080	Drill Collar - 2.25 Ft. Run	—			
Mud Wt.	8.9	lb/gal.	Viscosity	45	Filtrate	9.5

Tool Open @ 10:20 pm Initial Blow Strong blow off bottom 45 secs.  
ISI: Bled off blow - Fair to strong built to bottom 1 1/2 mins.  
Final Blow Fair to strong off bottom in 1 min GTS @ 5 mins (TSTM)  
Gas is flammable - blue flame - rich smell

Recovery - Total Feet 3050' Feet of Gas in Pipe GTS 2<sup>nd</sup> Flow period Flush Tool? No

Rec.	Feet Of	% gas	% oil	% water	% mud	
Rec.	Feet Of	% gas	% oil	% water	% mud	
Rec.	3050'	Clean Gassy Oil (est) 25%	75% oil	— % water	— % mud	
Rec.	Feet Of	Reversed Out	% gas	% oil	% water	% mud
Rec.	Feet Of	approx. 33 bbls.	% gas	% oil	% water	% mud

BHT 112° °F Gravity 38 °API @ 63° °F Corrected Gravity 37.7 °API

RW @ °F Chlorides ppm Recovery Chlorides 3,500 ppm System

(A) Initial Hydrostatic Mud	1962	PSI	AK1 Recorder No.	13309	Range	4700
(B) First Initial Flow Pressure	395	PSI	@ (depth)	4070	w/Clock No.	19960
(C) First Final Flow Pressure	799	PSI	AK1 Recorder No.	13339	Range	4025
(D) Initial Shut-In Pressure	1130	PSI	@ (depth)	4075	w/Clock No.	22992
(E) Second Initial Flow Pressure	909	PSI	AK1 Recorder No.	—	Range	—
(F) Second Final Flow Pressure	1070	PSI	@ (depth)	—	w/Clock No.	—
(G) Final Shut-In Pressure	1150	PSI	Initial Opening	30	Test	X 600.00
(H) Final Hydrostatic Mud	1902	PSI	Initial Shut-In	45	Jars	—

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Final Flow 45 Safety Joint X 50.00  
Final Shut-In 60 Straddle  
Circ. Sub X 35.00  
Sampler

Approved By Scott A. Oatsdean

Our Representative Rob Steinbrink

Extra Packer  
Other total  
TOTAL PRICE \$ 685.00

WELL NAME J.R. Ewing #1 DST # 2 RECORDER # 13339

INIT. HYD. MUD. 1960 1982.9 FINAL HYD. MUD 1889 1911.7

INITIAL FLOW MINUTES	INITIAL SHUTIN MINUTES	FINAL FLOW MINUTES	FINAL SHUTIN MINUTES
<u>30</u>	<u>45</u>	<u>45</u>	<u>60</u>
INTERVAL	INTERVAL	INTERVAL	INTERVAL
<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>

394	409.5	799	1	914	933.8	1074
410		1003	2	920		1095
461		1030	3	931		1106
524		1046	4	944		1116
576		1063	5	960		1123
624		1073	6	974		1128
69		1082	7	990		1130
104		1090	8	1000		1132
137		1097	9	1014		1134
172		1105	10	1026		1136
199	818.6	1110	11	1034		1138
		1114	12	1044		1140
		1117	13	1055		1142
		1121	14	1060		1143
		1123	15	1067		1145
		1125	16	1074	1094.3	1146
		1145.5	17			1148
			18			1149
			19			1151
			20			1153
			21			1155
			22			1175.6
			23			
			24			
			25			
			26			
			27			

1	1.003	1023.016
2	1.03	1050.151
3	1.046	1066.22
4	1.063	1083.286
5	1.073	1093.321
6	1.082	1102.349
7	1.09	1110.373
8	1.097	1117.392
9	1.105	1125.426
10	1.11	1130.451
11	1.114	1134.471
12	1.117	1137.485
13	1.121	1141.504
14	1.123	1143.513
15	1.125	1145.523

1	1.095	1115.387
2	1.106	1126.431
3	1.116	1136.48
4	1.123	1143.513
5	1.128	1148.536
6	1.13	1150.545
7	1.132	1152.554
8	1.134	1154.563
9	1.136	1156.572
10	1.138	1158.581
11	1.14	1160.589
12	1.142	1162.598
13	1.143	1163.602
14	1.145	1165.61
15	1.146	1166.614
16	1.148	1168.622
17	1.149	1169.626
18	1.151	1171.634
19	1.153	1173.642
20	1.155	1175.65

DSD - 1188.9

FSD - 1229.8

C - 16

A25..A44

D1 .. D35

1	0.394	409.5669
2	0.41	426.1335
3	0.461	478.7877
4	0.524	543.1574
5	0.576	595.2614
6	0.624	643.3262
7	0.669	688.4297
8	0.704	723.4203
9	0.737	756.5489
10	0.772	791.6088
11	0.799	818.6012

1	0.914	933.8521
2	0.92	939.872
3	0.931	950.9048
4	0.944	963.9373
5	0.96	979.968
6	0.974	993.9865
7	0.99	1009.998
8	1	1020
9	1.014	1034.074
10	1.026	1046.132
11	1.034	1054.169
12	1.044	1064.212
13	1.055	1075.256
14	1.06	1080.275
15	1.067	1087.3
16	1.074	1094.324

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name J.R. EWING #1 Test No. 3 Date 2/25/94  
Company ARGENT EXPLORATION INC. Zone KS CITY-160'  
Address 110 S MAIN #810 WICHITA KS 67202 Elevation 2644  
Co. Rep./Geo. SCOTT OATSDEAN Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay 5  
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested	<u>4080-4120</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>40</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>633</u>
Top Packer Depth	<u>4075</u>	Drill Collar - 2.25 Ft. Run	<u>9.1</u>
Bottom Packer Depth	<u>4080</u>	Mud Wt.	<u>54</u> lb/Gal.
Total Depth	<u>4120</u>	Viscosity	<u>54</u>
		Filtrate	<u>9.2</u>

Tool Open @ 8:40 PM Initial Blow WEAK BLOW BUILT TO 2.5"  
ISI: BLED OFF BLOW - NO RETURN  
Final Blow WEAK SURFACE BLOW BUILT TO 3"  
FSI: BLED OFF BLOW - NO RETURN

Recovery - Total Feet 60 Flush Tool? NO

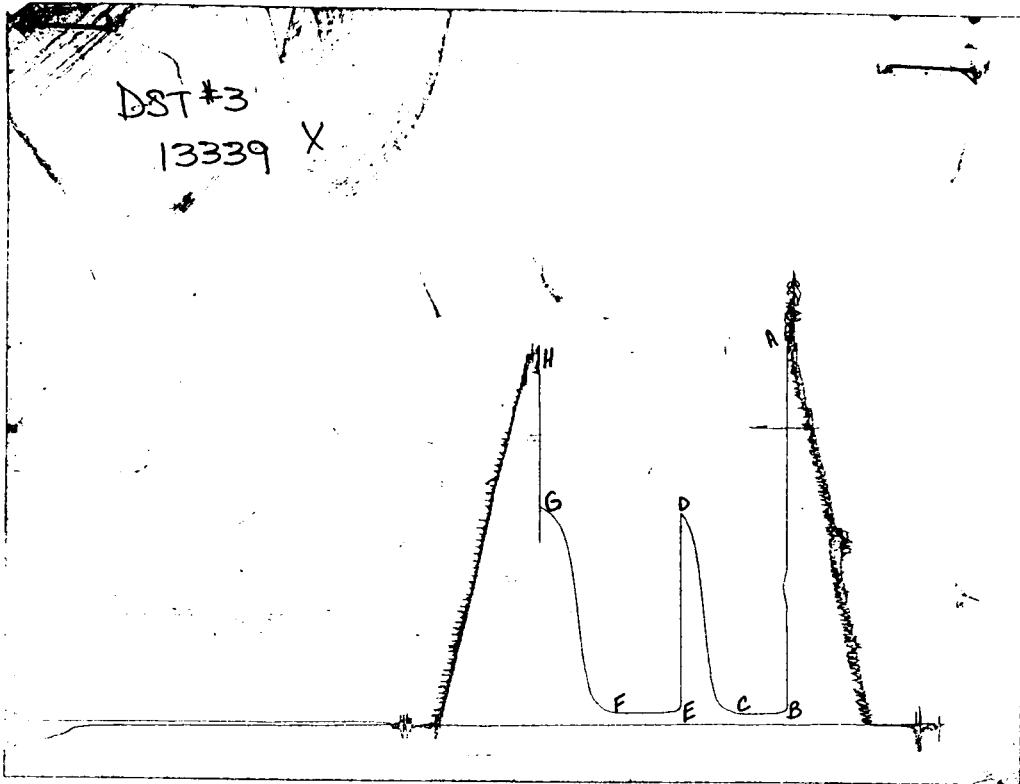
Rec. <u>30</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>60</u>	Feet of	<u>OIL CUT MUD- 25% OIL/ 75% MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud	<u>2002.9</u> PSI	AK1 Recorder No.	<u>13309</u>	Range	<u>4700</u>
(B) First Initial Flow Pressure	<u>58.2</u> PSI	@ (depth)	<u>4110</u>	w / Clock No.	<u>19960</u>
(C) First Final Flow Pressure	<u>58.2</u> PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(D) Initial Shut-in Pressure	<u>1118.3</u> PSI	@ (depth)	<u>4115</u>	w / Clock No.	<u>22992</u>
(E) Second Initial Flow Pressure	<u>67.6</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>67.6</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>1148.5</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>45</u>
(H) Final Hydrostatic Mud	<u>1982.9</u> PSI	Initial Shut-in	<u>45</u>	Final Shut-in	<u>60</u>

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2003	2002.9
(B) FIRST INITIAL FLOW PRESSURE	41	58.2
(C) FIRST FINAL FLOW PRESSURE	41	58.2
(D) INITIAL CLOSED-IN PRESSURE	1120	1118.3
(E) SECOND INITIAL FLOW PRESSURE	52	67.6
(F) SECOND FINAL FLOW PRESSURE	52	67.6
(G) FINAL CLOSED-IN PRESSURE	1160	1148.5
(H) FINAL HYDROSTATIC MUD	1942	1982.9

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

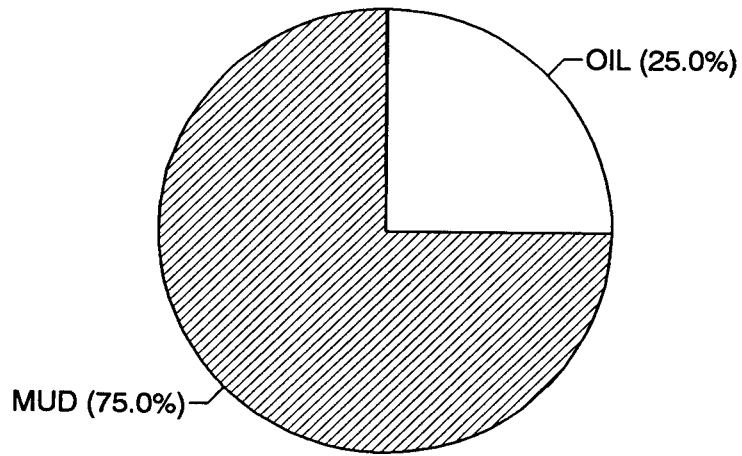
3

TICKET #

6851

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	60	0	0	25	15	0	0	75	45
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	60	0	0	25	15	0	0	75	45

		HRS OPEN	BBL/DAY
BBL OIL=	0.105	*	1.25
BBL WATER=	0	*	0
BBL MUD=	0.315		
BBL GAS=	0		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6851

Well Name & No. <u>J.R. Ewing #1</u>	Test No. <u>3</u>	Date <u>2-25-94</u>
Company <u>Argent Exploration, Inc.</u>	Zone Tested <u>KC. 160' 2n</u>	
Address <u>110 S. Main Suite 810 Wichita, KS. 67202</u>	Elevation <u>2644 (KB)</u>	
Co. Rep./Geo. <u>Scott Oatsdean</u>	cont. <u>Abercrombie #8</u>	Est. Ft. of Pay <u>5'</u>
Location: Sec. <u>8</u>	Twp. <u>16<sup>S</sup></u>	Rge. <u>27<sup>W</sup></u> Co. <u>Lane</u> State <u>KS</u>
No. of Copies <u>Normal</u>	Distribution Sheet <u>Yes X</u>	No Turnkey <u><del>X</del></u> Yes <u>X</u> No <u>    </u> Evaluation <u>    </u>

Interval Tested 4080 - 4120 Drill Pipe Size 4 1/2" XH  
Anchor Length 40' Top Choke — 1" Bottom Choke — 3/4"  
Top Packer Depth 4075 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Bottom Packer Depth 4080 Wt. Pipe I.D. — 2.7 Ft. Run 633'  
Total Depth 4120 Drill Collar — 2.25 Ft. Run       
Mud Wt. 9.1 lb/gal. Viscosity 54 Filtrate 9.2

Tool Open @ 8:40 pm Initial Blow Weak blow built to 2 1/2"  
ISI: Bled off blow - no return.  
Final Blow Weak surface blow built to 3"  
FSI: Bled off blow - no return.

Recovery — Total Feet 60' Feet of Gas in Pipe 30' ~~40'~~ Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	<u>60'</u>	OCM	— %gas 25 %oil	— %water 75 %mud	
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 112° °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud 2003 PSI AK1 Recorder No. 13309 Range 4700  
(B) First Initial Flow Pressure 41 PSI @ (depth) 410 w/Clock No. 19960  
(C) First Final Flow Pressure 41 PSI AK1 Recorder No. 13339 Range 4025  
(D) Initial Shut-In Pressure 1120 PSI @ (depth) 4115 w/Clock No. 22992  
(E) Second Initial Flow Pressure 52 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 52 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 1160 PSI Initial Opening 30 Test X 1000.00  
(H) Final Hydrostatic Mud 1942 PSI Initial Shut-In 45 Jars \_\_\_\_\_

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Safety Joint X 50.00  
Final Shut-In 60 Straddle \_\_\_\_\_  
Circ. Sub X N/C  
Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_

Approved By Scott A. Oatsdean

Our Representative Rod Steinbrink

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name J.R. EWING #1 Test No. 4 Date 2/26/94  
Company ARGENT EXPLORATION INC. Zone KS CITY-180'  
Address 110 S MAIN #810 WICHITA KS 67202 Elevation 2644  
Co. Rep./Geo. SCOTT OATSDEAN Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay 8  
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested 4120-4150 Drill Pipe Size 4.5 XH  
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run 633  
Top Packer Depth 4115 Drill Collar - 2.25 Ft. Run 9.2  
Bottom Packer Depth 4120 Mud Wt. 9.2 lb/Gal.  
Total Depth 4150 Viscosity 49 Filtrate 9.6

Tool Open @ 10:30 AM Initial Blow FAIR TO STRONG BLOW OFF BOTTOM IN 4 MINUTES  
ISI: BLED OFF BLOW-SURFACE BLOW BUILT TO 2"  
Final Blow WEAK TO FAIR RETURN OFF BOTTOM IN 7 MINUTES  
FSI: BLED OFF BLOW - SURFACE BLOW BUILT TO 6"

Recovery - Total Feet 440 Flush Tool? NO

Rec. 1360 Feet of GAS IN PIPE ABOVE FLUID  
Rec. 400 Feet of CLEAN GASSY OIL - 15% GAS/ 85% OIL  
Rec. 40 Feet of OIL CUT MUD-20% OIL/ 80% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 112 °F Gravity 37 °API @ 46 °F Corrected Gravity 38.4 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1970.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 69.6 PSI @ (depth) 4140 w / Clock No. 19960

(C) First Final Flow Pressure 90.4 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1120.4 PSI @ (depth) 4145 w / Clock No. 22992

(E) Second Initial Flow Pressure 157.9 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

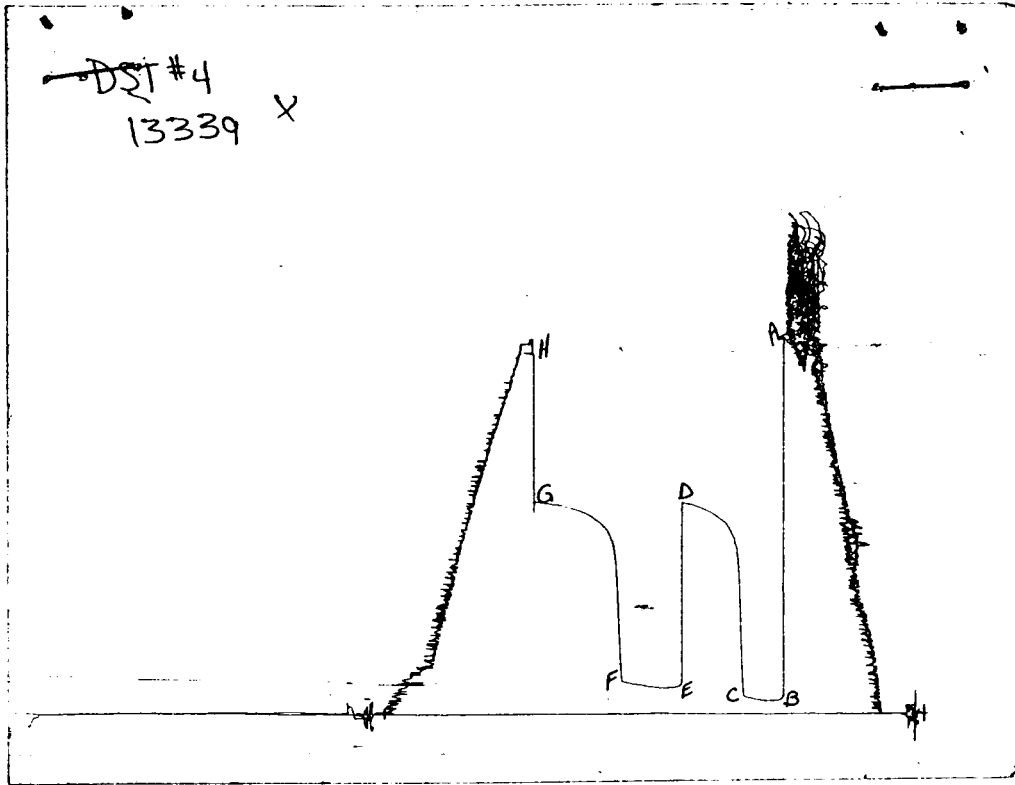
(F) Second Final Flow Pressure 176.6 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1125.4 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1929.8 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1982	1970.9
(B) FIRST INITIAL FLOW PRESSURE	52	69.6
(C) FIRST FINAL FLOW PRESSURE	72	90.4
(D) INITIAL CLOSED-IN PRESSURE	1110	1120.4
(E) SECOND INITIAL FLOW PRESSURE	124	157.9
(F) SECOND FINAL FLOW PRESSURE	166	176.6
(G) FINAL CLOSED-IN PRESSURE	1120	1125.4
(H) FINAL HYDROSTATIC MUD	1932	1929.8

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

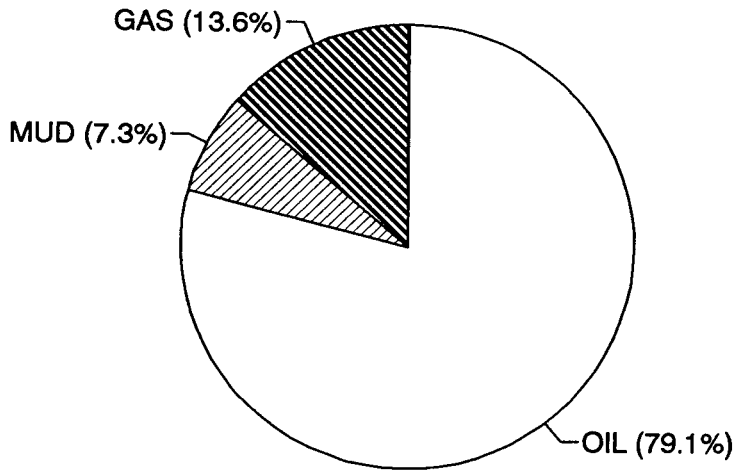
4

TICKET #

6852

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	400	15	60	85	340	0	0	0	0
2	40	0	0	20	8	0	0	80	32
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
<b>TOTAL</b>	<b>440</b>	<b>13.64</b>	<b>60</b>	<b>79.090909</b>	<b>348</b>	<b>0</b>	<b>0</b>	<b>7.2727</b>	<b>32</b>

	BBL OIL=	BBL WATER=	BBL MUD=	BBL GAS=
HRS OPEN	2.436 *	0 *	0.224	0.42
BBL/DAY	1.25	0		
	46.7712			



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6852

Well Name & No.	J.R. Ewing #1	Test No.	4	Date	2-26-94					
Company	Argent Exploration, Inc.	Zone Tested	KC.	180 Zn						
Address	110 S Main Suite 810 Wichita KS 67202	Elevation	2644	(KB)						
Co. Rep./Geo.	Scott Ostdean	cont.	Abercrombie #8	Est. Ft. of Pay	8'					
Location: Sec.	8	Twp.	16 <sup>S</sup>	Rge.	27 <sup>W</sup>	Co.	Lane	State	KS.	
No. of Copies	Normal	Distribution Sheet	Yes	X	No	Turnkey	Yes	X	No	Evaluation

Interval Tested	4120 - 4150	Drill Pipe Size	4 1/2" XH			
Anchor Length	30'	Top Choke — 1"	Bottom Choke — 3/4"			
Top Packer Depth	4115	Hole Size — 7 7/8"	Rubber Size — 6 3/4"			
Bottom Packer Depth	4120	Wt. Pipe I.D. — 2.7 Ft. Run	633'			
Total Depth	4150	Drill Collar — 2.25 Ft. Run	—			
Mud Wt.	9.2	lb/gal.	Viscosity	49	Filtrate	9.6

Tool Open @ 10:30 am Initial Blow Fair to strong blow off bottom in 4 mins.  
ISI: Bled off blow - surface blow built to 2"  
Final Blow Weak to fair return off bottom in 7 mins.  
FSI: Bled off blow - surface blow built to 6"

Recovery — Total Feet 440 Feet of Gas In Pipe 1360' Above Fluid Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud	
Rec. 400'	Feet Of CGO	15	%gas 85	%oil	%water	%mud
Rec. 40'	Feet Of OCM	<del>20</del> %gas	<del>80</del> %oil	—	%water 80	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud	

BHT 112° °F Gravity 37 °API @ 46° °F Corrected Gravity 38.4 °API

RW @ °F Chlorides ppm Recovery Chlorides 4,000 ppm System

- (A) Initial Hydrostatic Mud 1982 PSI AK1 Recorder No. 13309 Range 4700
- (B) First Initial Flow Pressure 52 PSI @ (depth) 4140 w/Clock No. 19960
- (C) First Final Flow Pressure 72 PSI AK1 Recorder No. 13339 Range 4025
- (D) Initial Shut-In Pressure 1110 PSI @ (depth) 4145 w/Clock No. 22992
- (E) Second Initial Flow Pressure 124 PSI AK1 Recorder No. — Range —
- (F) Second Final Flow Pressure 166 PSI @ (depth) — w/Clock No. —
- (G) Final Shut-In Pressure 1120 PSI Initial Opening 30 Test X
- (H) Final Hydrostatic Mud 1932 PSI Initial Shut-In 45 Jars

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Safety Joint X  
Final Shut-In 60 Straddle  
Circ. Sub X N/C  
Sampler

Approved By Scott A. Ostdean

Our Representative Rod Steinbrink

Extra Packer

Other

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name J.R. EWING #1 Test No. 5 Date 2/27/94  
Company ARGENT EXPLORATION INC. Zone KS CITY-200'  
Address 110 S MAIN #810 WICHITA KS 67202 Elevation 2644  
Co. Rep./Geo. SCOTT OATSDEAN Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay 6  
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested	<u>4150-4180</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>30</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>633</u>
Top Packer Depth	<u>4145</u>	Drill Collar - 2.25 Ft. Run	<u>9.2</u>
Bottom Packer Depth	<u>4150</u>	Mud Wt.	<u>49</u> lb/Gal.
Total Depth	<u>4180</u>	Viscosity	<u>49</u> Filtrate <u>9.6</u>

Tool Open @ 12:25 AM Initial Blow FAIR TO STRONG BLOW OFF BOTTOM IN 2 MINUTES  
ISI: BLED OFF BLOW - SURFACE RETURN BUILT TO BOTTOM IN 20 MINUTES  
Final Blow FAIR TO STRONG BLOW OFF BOTTOM IN 2.5 MINUTES  
FSI: BLED OFF BLOW-SURFACE RETURN BUILT TO BOTTOM IN 15 MINUTES

Recovery - Total Feet 1220/2440 GIP Flush Tool? NO

Rec. <u>300</u>	Feet of	<u>CLEAN GASSY OIL- 20% GAS/ 80% OIL</u>
Rec. <u>120</u>	Feet of	<u>GSY WTR &amp; MUD CUT OIL-50%GAS/30%OIL/10%WTR/10%MUD</u>
Rec. <u>60</u>	Feet of	<u>GSY OIL &amp; MUD CUT WTR-40%GAS/20%OIL/25%WTR/15%MUD</u>
Rec. <u>120</u>	Feet of	<u>GSY OIL CUT WTRY MUD-25%GAS/5%OIL/35%WTR/35%MUD</u>
Rec. <u>620</u>	Feet of	<u>GAS CUT WATER- 5%GAS/ 95% WTR</u>

BHT 116 °F Gravity 37.6 °API @ 50 °F Corrected Gravity 38.6 °API  
RW 0.18 @ 70 °F Chlorides 42000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2002.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 108.1 PSI @ (depth) 4140 w / Clock No. 19960

(C) First Final Flow Pressure 307.7 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1098.3 PSI @ (depth) 4175 w / Clock No. 22992

(E) Second Initial Flow Pressure 400.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

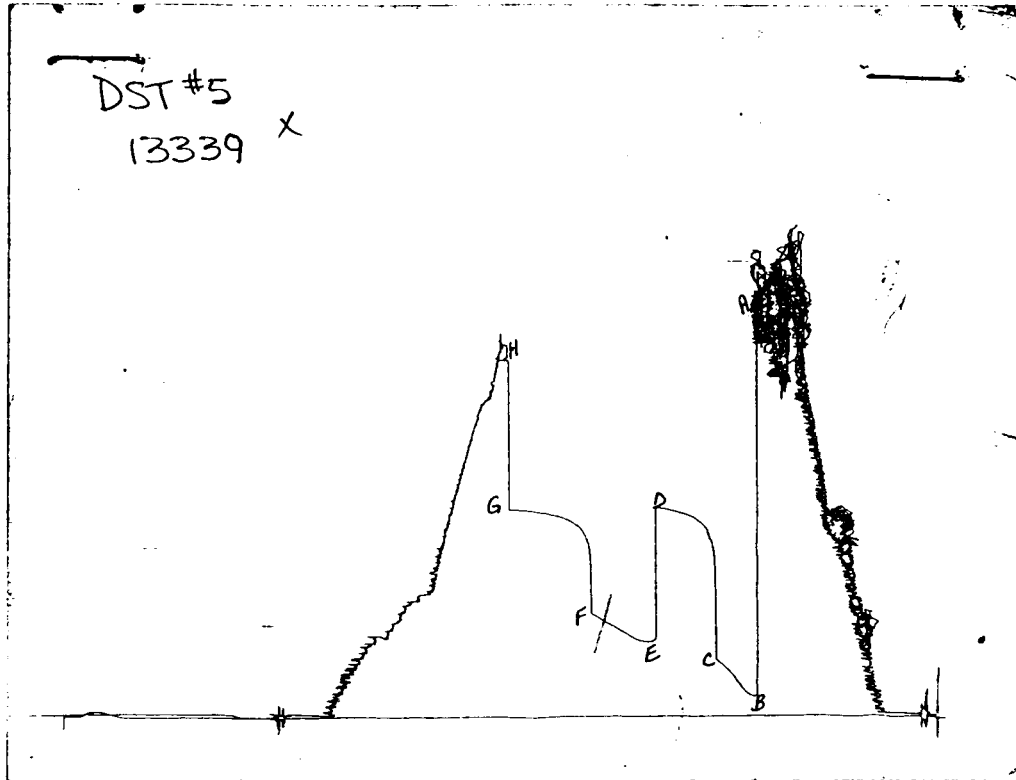
(F) Second Final Flow Pressure 553.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1089.3 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1944.8 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

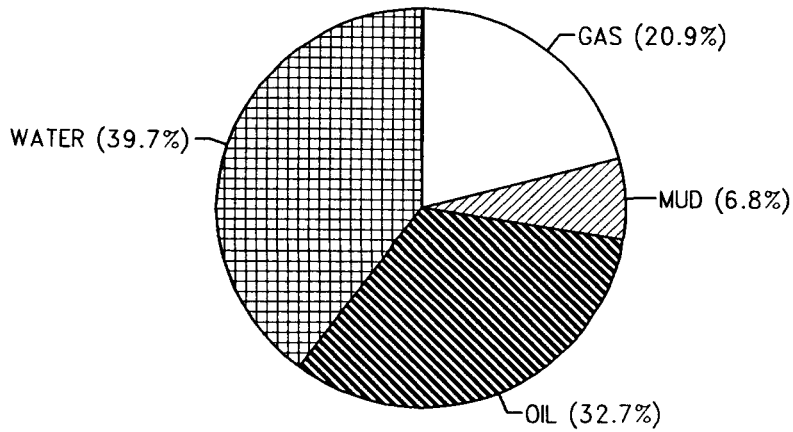
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2003	2002.9
(B) FIRST INITIAL FLOW PRESSURE	93	108.1
(C) FIRST FINAL FLOW PRESSURE	301	307.7
(D) INITIAL CLOSED-IN PRESSURE	1100	1098.3
(E) SECOND INITIAL FLOW PRESSURE	395	400.2
(F) SECOND FINAL FLOW PRESSURE	539	553.2
(G) FINAL CLOSED-IN PRESSURE	1100	1089.3
(H) FINAL HYDROSTATIC MUD	1952	1944.8

CALCULATED RECOVERY ANALYSIS

DST 5 TICKET # 6853

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	300	20	60	80	240	0	0	0	0
PIPE 2	120	50	60	30	36	10	12	10	12
3	60	40	24	20	12	25	15	15	9
4	107	25	26.75	5	5.35	35	37.45	35	37.45
5			0		0		0		0
6			0		0		0		0
WEIGHT 1	13	25	3.25	5	0.65	35	4.55	35	4.55
PIPE 2	620	5	31	0	0	95	589	0	0
3			0		0		0		0
4			0		0		0		0
DRILL 1			0		0		0		0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1220		205		294		658		63

		HRS OPEN	BBL/DAY
BBL OIL=	4.175987	*	1.25 80.17895
BBL WATER=	5.071329	*	97.369517
BBL MUD=	0.866649		
BBL GAS =	2.667815		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6853

Well Name & No.	J. R. Ewing #1	Test No.	5	Date	2.27.94					
Company	Argent Exploration, Inc.	Zone Tested	KC. 200' Zn							
Address	110 S. Main Suite 810 Wichita, KS. 67202	Elevation	2644 (KB)							
Co. Rep./Geo.	Scott Oatsdean	cont.	Abercrombie #8	Est. Ft. of Pay	6'					
Location: Sec.	8	Twp.	16 <sup>S</sup>	Rge.	27 <sup>W</sup>	Co.	Lane	state	KS.	
No. of Copies	Normal	Distribution Sheet	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Evaluation				

Interval Tested	4150 - 4180	Drill Pipe Size	4 1/2" XH						
Anchor Length	30'	Top Choke - 1"	Bottom Choke - 3/4"						
Top Packer Depth	4145	Hole Size - 7 7/8"	Rubber Size - 6 3/4"						
Bottom Packer Depth	4150	Wt. Pipe I.D. - 2.7 Ft. Run	633'						
Total Depth	4180	Drill Collar - 2.25 Ft. Run	—						
Mud Wt.	9.2 lb/gal.	Viscosity	49	Filtrate	9.6				
Tool Open @	12:25 am	Initial Blow	Fair to strong blow off bottom in 2 mins.						
		ISI:	Bled off blow - surface return built to bottom in 20 mins.						
Final Blow	Fair to strong blow off bottom in 2 1/2 mins.								
		FSI:	Bled off blow - surface return built to bottom in 15 mins.						
Recovery - Total Feet	1220'	Feet of Gas in Pipe	2440' Above Fluid	Flush Tool?	No				
Rec.	300'	Feet Of	CGO	20 % gas	80 % oil	— % water	— % mud		
Rec.	120'	Feet Of	GW MCD	50 % gas	30 % oil	10 % water	10 % mud		
Rec.	60'	Feet Of	GDMCW	40 % gas	20 % oil	25 % water	15 % mud		
Rec.	120'	Feet Of	GOWCM	25 % gas	5 % oil	35 % water	35 % mud		
Rec.	620'	Feet Of	GW	5 % gas	— % oil	95 % water	— % mud		
BHT	116°	°F Gravity	37.6	°API @	50°	°F Corrected Gravity	38.6	°API	
RW	.18	@	70°	°F Chlorides	42,000	ppm Recovery	Chlorides	4,000	ppm System
(A) Initial Hydrostatic Mud	2003	PSI	AK1 Recorder No.	13309	Range	4700			
(B) First Initial Flow Pressure	93	PSI	@ (depth)	4170	w/Clock No.	19960			
(C) First Final Flow Pressure	301	PSI	AK1 Recorder No.	13339	Range	4025			
(D) Initial Shut-In Pressure	1100	PSI	@ (depth)	4175	w/Clock No.	22992			
(E) Second Initial Flow Pressure	395	PSI	AK1 Recorder No.	—	Range	—			
(F) Second Final Flow Pressure	539	PSI	@ (depth)	—	w/Clock No.	—			
(G) Final Shut-In Pressure	1100	PSI	Initial Opening	30	Test	X			
(H) Final Hydrostatic Mud	1952	PSI	Initial Shut-In	45	Jars	—			
			Final Flow	45	Safety Joint	X			
			Final Shut-In	60	Straddle	—			
					Circ. Sub	X N/C			
					Sampler	—			
					Extra Packer	—			
					Other	—			
					TOTAL PRICE \$	—			

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Approved By Scott A. Oatsdean

Our Representative Rod Steinbrink

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name J.R. EWING #1 Test No. 6 Date 2/27/94  
Company ARGENT EXPLORATION INC. Zone KS CITY-200'  
Address 110 S MAIN #810 WICHITA KS 67202 Elevation 2644  
Co. Rep./Geo. SCOTT OATSDEAN Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested	<u>4180-4210</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>30</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>633</u>
Top Packer Depth	<u>4175</u>	Drill Collar - 2.25 Ft. Run	<u>9</u>
Bottom Packer Depth	<u>4180</u>	Mud Wt.	<u>66</u> lb/Gal.
Total Depth	<u>4210</u>	Viscosity	<u>66</u> Filtrate <u>8.8</u>

Tool Open @ 4:00 PM Initial Blow FAIR TO STRONG BLOW OFF BOTTOM IN 4 MINUTES  
ISI: BLED OFF BLOW-SURFACE BLOW THROUGHOUT  
Final Blow WEAK TO FAIR BLOW BUILT OFF BOTTOM IN 7 MINUTES  
FSI: BLED OFF BLOW-SURFACE BLOW THROUGHOUT

Recovery - Total Feet 1220 Flush Tool? NO

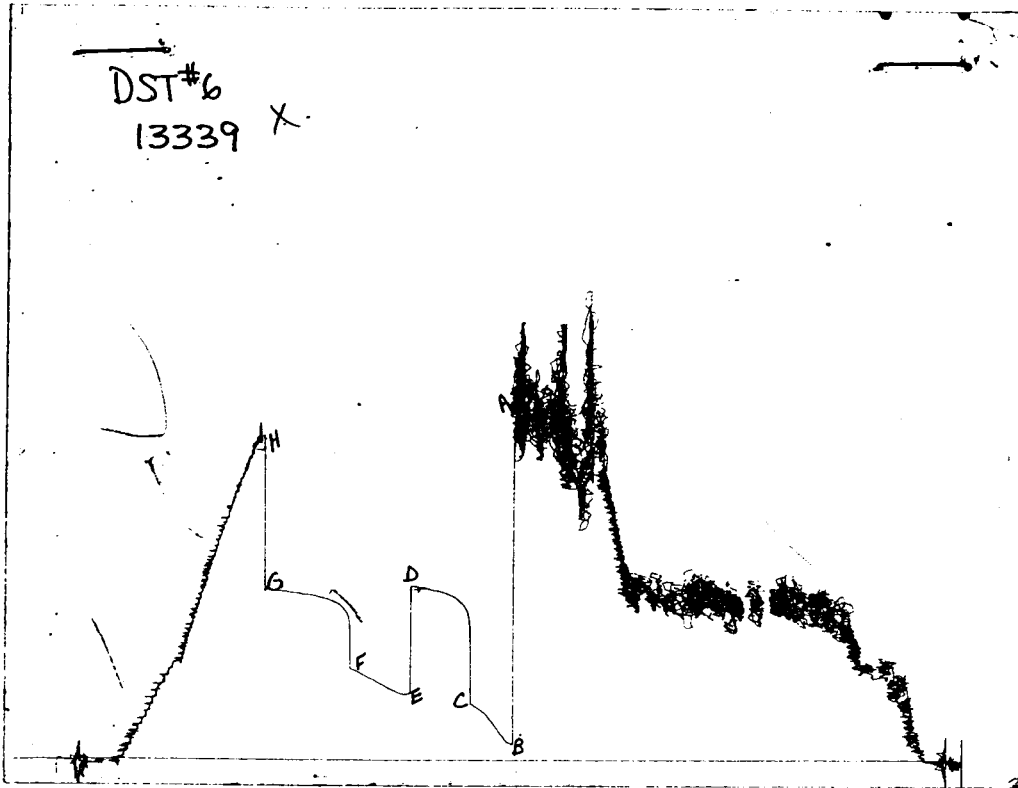
Rec. <u>120</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>540</u>	Feet of	<u>GAS &amp; OIL CUT MUDDY WATER- 5%GAS/5%OIL/60% WTR/30% MUD</u>
Rec. <u>680</u>	Feet of	<u>GAS CUT WATER- 5% GAS/ 95% WATER</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 113 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.29 @ \_\_\_\_\_ °F Chlorides 34000 ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud	<u>1812.5</u> PSI	AK1 Recorder No. <u>13309</u>	Range <u>4700</u>
(B) First Initial Flow Pressure	<u>83.2</u> PSI	@ (depth) <u>4200</u>	w / Clock No. <u>19960</u>
(C) First Final Flow Pressure	<u>302.5</u> PSI	AK1 Recorder No. <u>13339</u>	Range <u>4025</u>
(D) Initial Shut-in Pressure	<u>920.8</u> PSI	@ (depth) <u>4205</u>	w / Clock No. <u>22992</u>
(E) Second Initial Flow Pressure	<u>352.4</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure	<u>493.2</u> PSI	@ (depth) _____	w / Clock No. _____
(G) Final Shut-in Pressure	<u>902.8</u> PSI	Initial Opening <u>30</u>	Final Flow <u>45</u>
(H) Final Hydrostatic Mud	<u>1702.3</u> PSI	Initial Shut-in <u>45</u>	Final Shut-in <u>60</u>

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1802	1812.5
(B) FIRST INITIAL FLOW PRESSURE	72	83.2
(C) FIRST FINAL FLOW PRESSURE	291	302.5
(D) INITIAL CLOSED-IN PRESSURE	909	920.8
(E) SECOND INITIAL FLOW PRESSURE	332	352.4
(F) SECOND FINAL FLOW PRESSURE	478	493.2
(G) FINAL CLOSED-IN PRESSURE	889	902.8
(H) FINAL HYDROSTATIC MUD	1702	1702.3

CALCULATED RECOVERY ANALYSIS

DST

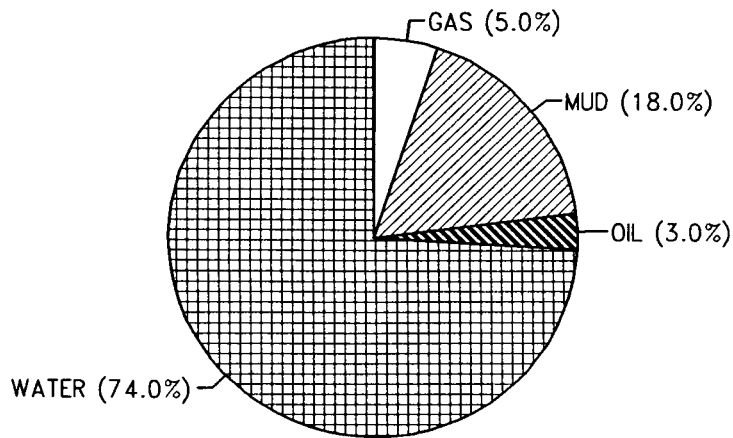
6

TICKET #

6854

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	540	5	27	5	27	60	324	30	162
PIPE 2	47	5	2.35	0	0	95	44.65	0	0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1	633	5	31.65	0	0	95	601.35	0	0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1			0		0		0		0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1220		61		27		970		162

		HRS OPEN	BBL/DAY
BBL OIL=	0.38394	*	1.25 7.371648
BBL WATER=	9.451653	*	181.47174
BBL MUD=	2.30364		
BBL GAS =	0.638907		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6854

Well Name & No.	J.R. Ewing #1	Test No.	6	Date	2-27-94
Company	Argent Exploration, Inc.	Zone Tested	KC 220' Zn		
Address	1105 Main Suite 810 Wichita, KS 67202	Elevation	2644 (KB)		
Co. Rep./Geo.	Scott Oatsdean	cont.	Abercrombie #8	Est. Ft. of Pay	
Location: Sec.	8	Twp.	16 <sup>S</sup>	Rge.	27 <sup>W</sup>
Co.	Lane	State	KS		
No. of Copies	Normal	Distribution Sheet	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Evaluation					

Interval Tested	4180 - 4210	Drill Pipe Size	4 1/2" KH
Anchor Length	30'	Top Choke - 1"	Bottom Choke - 3/4"
Top Packer Depth	4175	Hole Size - 7 7/8"	Rubber Size - 6 3/4"
Bottom Packer Depth	4180	Wt. Pipe I.D. - 2.7 Ft. Run	633'
Total Depth	4210	Drill Collar - 2.25 Ft. Run	

Mud Wt.	9.0	lb/gal.	Viscosity	66	Filtrate	8.8
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Tool Open @ 4:00 pm Initial Blow Fair to strong blow off bottom in 4 mins.

ISI: Bled off blow - surface blow throughout.

Final Blow Weak to fair built off bottom in 7 mins.

FSI: Bled off blow - surface blow throughout.

Recovery - Total Feet 1220' Feet of Gas in Pipe 120' GIP Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. 540'	Feet Of GOMCW	5 %gas	5 %oil	60 %water	30 %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. 680'	Feet Of GW	5 %gas	- %oil	95 %water	- %mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 113° °F Gravity °API @ °F Corrected Gravity °API

RW -29 @ 50° °F Chlorides 34,000 ppm Recovery Chlorides 4,500 ppm System

- (A) Initial Hydrostatic Mud 1802 PSI AK1 Recorder No. 13309 Range 4300
- (B) First Initial Flow Pressure 72 PSI @ (depth) 4200 w/Clock No. 19960
- (C) First Final Flow Pressure 291 PSI AK1 Recorder No. 13339 Range 4025
- (D) Initial Shut-In Pressure 909 PSI @ (depth) 4205 w/Clock No. 22992
- (E) Second Initial Flow Pressure 332 PSI AK1 Recorder No. Range
- (F) Second Final Flow Pressure 478 PSI @ (depth) w/Clock No.
- (G) Final Shut-In Pressure 889 PSI Initial Opening 30 Test X 600.00
- (H) Final Hydrostatic Mud 1702 PSI Initial Shut-In 45 Jars

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Approved By Scott A. Oatsdean

Our Representative Rod Steinbrink

Final Flow 45 Safety Joint X 5000

Final Shut-In 60 Straddle

Circ. Sub X N/C

Sampler

Extra Packer

Other

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name J.R. EWING #1 Test No. 7 Date 2/28/94  
Company ARGENT EXPLORATION INC. Zone ft scott  
Address 110 S MAIN #810 WICHITA KS 67202 Elevation 2644  
Co. Rep./Geo. SCOTT OATSDEAN Cont. ABERCROMBIE DRLG RIG #8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested 4380-4430 Drill Pipe Size 4.5 XH  
Anchor Length 50 Wt. Pipe I.D. - 2.7 Ft. Run 601  
Top Packer Depth 4375 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4380 Mud Wt. \_\_\_\_\_ lb/Gal.  
Total Depth 4430 Viscosity 56 Filtrate 8

Tool Open @ 9:15 pm Initial Blow WEAK SURFACE BLOW BUILT TO 2.5"  
ISI: BLED OFF BLOW - NO RETURN  
Final Blow FAIR RETURN BUILT TO BOTTOM IN 24 MINUTES  
FSI: BLED OFF BLOW - NO RETURN BLOW

Recovery - Total Feet 75 Flush Tool? NO

Rec. 290 Feet of GAS IN PIPE ABOVE FLUID  
Rec. 15 Feet of DRILLING MUD  
Rec. 60 Feet of GASSY OIL CUT MUD-25% GAS/ 5% OIL/ 70% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 115 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2173.3 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 24.9 PSI @ (depth) 4420 w / Clock No. 19960

(C) First Final Flow Pressure 36.4 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 203.7 PSI @ (depth) 4425 w / Clock No. 22992

(E) Second Initial Flow Pressure 57.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

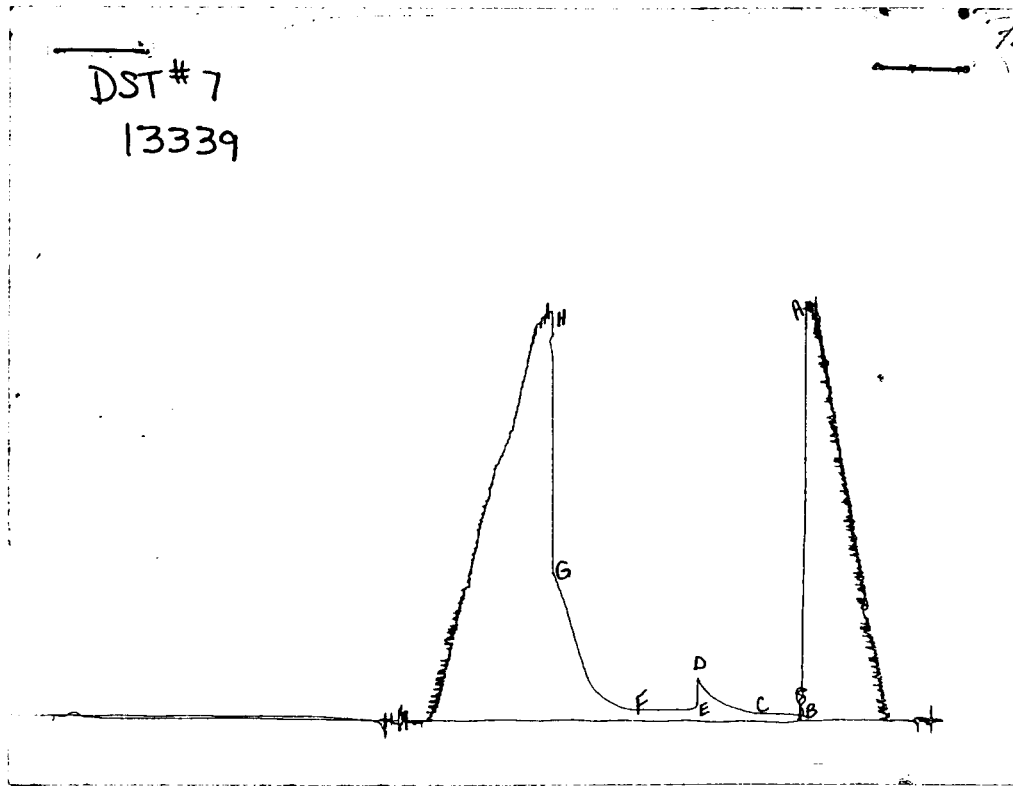
(F) Second Final Flow Pressure 57.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

Final Shut-in Pressure 778.5 PSI Initial Opening 30 Final Flow 45

Initial Hydrostatic Mud 2143.2 PSI Initial Shut-in 45 Final Shut-in 60

Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2163	2173.3
(B) FIRST INITIAL FLOW PRESSURE	31	24.9
(C) FIRST FINAL FLOW PRESSURE	41	36.4
(D) INITIAL CLOSED-IN PRESSURE	228	203.7
(E) SECOND INITIAL FLOW PRESSURE	52	57.2
(F) SECOND FINAL FLOW PRESSURE	52	57.2
(G) FINAL CLOSED-IN PRESSURE	769	778.5
(H) FINAL HYDROSTATIC MUD	2143	2143.2



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6855

Well Name & No. <u>J.R. Ewing #1</u>	Test No. <u>7</u>	Date <u>2-28-94</u>
Company <u>Argent Exploration, Inc.</u>	Zone Tested <u>Ft. Scott</u>	
Address <u>110 S. Main Suite 810 Wichita, KS. 67202</u>	Elevation <u>2644</u>	(KB)
Co. Rep./Geo. <u>Scott Oatsdean</u>	cont. <u>Abercrombie #8</u>	Est. Ft. of Pay
Location: Sec. <u>8</u>	Twp. <u>16<sup>S</sup></u>	Rge. <u>27<sup>W</sup></u> Co. <u>Lane</u> State <u>KS.</u>
No. of Copies <u>Normal</u>	Distribution Sheet	Yes <u>X</u> No Turnkey Yes <u>X</u> No Evaluation

Interval Tested <u>4380 - 4430</u>	Drill Pipe Size <u>4 1/2" KH</u>
Anchor Length <u>50'</u>	Top Choke - 1" Bottom Choke - 3/4"
Top Packer Depth <u>4375</u>	Hole Size - 7 7/8" Rubber Size - 6 3/4"
Bottom Packer Depth <u>4380</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>601'</u>
Total Depth <u>4430</u>	Drill Collar - 2.25 Ft. Run
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>56</u> Filtrate <u>8.0</u>

Tool Open @ 9:15 pm Initial Blow Weak surface blow built to 2 1/2"  
ISI: Bled off blow - no return.

Final Blow Fair return built to bottom in 24 mins.  
FSI: Bled off blow - no return blow.

Recovery - Total Feet 75' Feet of Gas In Pipe 290' Above Fluid Flush Tool? No

Rec.	Feet Of		%gas	%oil	%water	%mud
Rec. <u>15'</u>	Feet Of <u>Drig. Mud</u>		-	-	-	100 %mud
Rec. _____	Feet Of _____		%gas	%oil	%water	%mud
Rec. <u>60'</u>	Feet Of <u>GDCM</u>	<u>25</u>	%gas	<u>5</u> %oil	- %water	<u>70</u> %mud
Rec. _____	Feet Of _____		%gas	%oil	%water	%mud

BHT 115 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 2163 PSI Ak1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 31 PSI @ (depth) 4420 w/Clock No. 19960

(C) First Final Flow Pressure 41 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-In Pressure 228 PSI @ (depth) 4425 w/Clock No. 22992

(E) Second Initial Flow Pressure 52 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 52 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

(G) Final Shut-In Pressure 769 PSI Initial Opening 30 Test X 600.00

(H) Final Hydrostatic Mud 2143 PSI Initial Shut-In 45 Jars \_\_\_\_\_

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Final Flow 45 Safety Joint X 5200

Final Shut-In 60 Straddle \_\_\_\_\_

Circ. Sub X N/C

Sampler \_\_\_\_\_

Extra Packer \_\_\_\_\_

Other \_\_\_\_\_

Approved By Scott A. Oatsdean

Our Representative Rod Steinbrink

TOTAL PRICE \$ 650.00