

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL CONFIDENTIAL

API#15-119-20922

## Drill-Stem Test Data

Well Name ADAMS #32-H Test No. 1 Date 12/4/94  
 Company GIANT EXPLORATION Zone COUNCIL GROV  
 Address P O BOX 2810, FARMINGTON, NM 87499 Elevation 2560  
 Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay 12  
 Location: Sec. 32 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested	<u>3017-3035</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>18</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>610</u>
Top Packer Depth	<u>3012</u>	Drill Collar - 2.25 Ft. Run	<u>8.7</u>
Bottom Packer Depth	<u>3017</u>	Mud Wt.	<u>43</u> lb/Gal.
Total Depth	<u>3035</u>	Viscosity	<u>11.9</u>

Tool Open @ 4:30PM Initial Blow STRONG SURFACE BLOW, BUILT TO BOTTOM OF BUCKET IN 30 SECONDS. INITIAL SHUT IN - BLEED OFF - NO BLOW BACK.

Final Blow STRONG SURFACE BLOW BUILT TO BOTTOM OF BUCKET IN 30 SECONDS. GAS SURFACE 10 MINUTES INTO OPENING. FINAL SHUT IN-BLEED OFF-NO BLOW BACK

Recovery - Total Feet 90 Flush Tool? NO

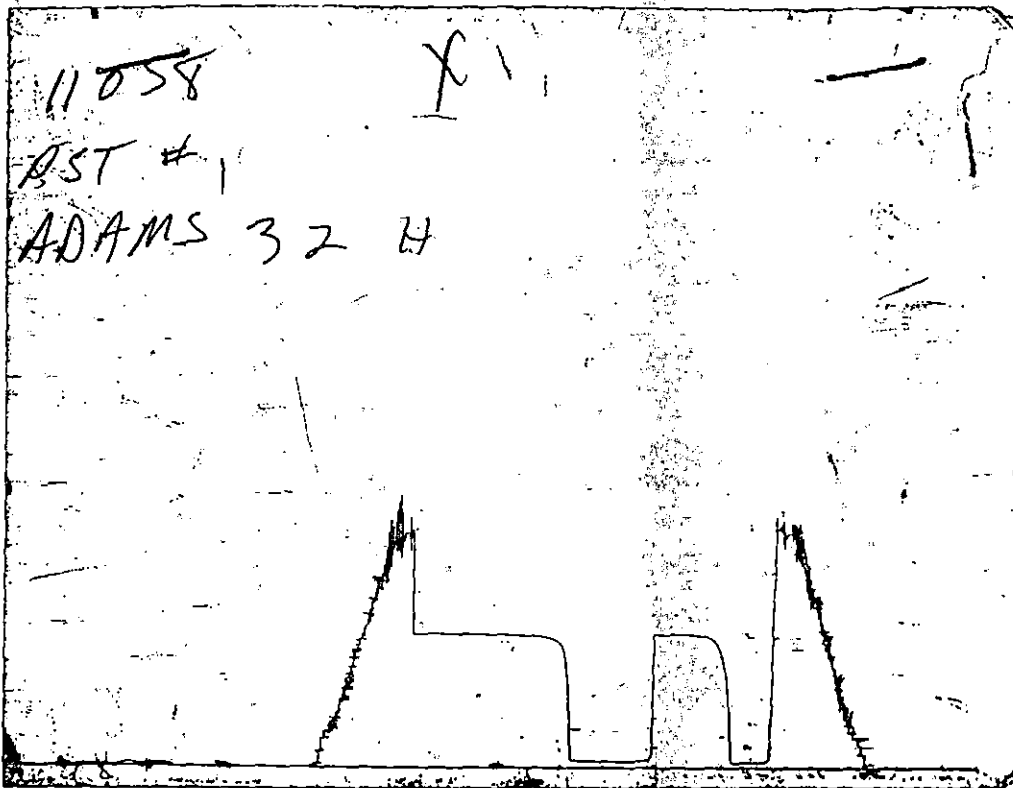
Rec. <u>433</u>	Feet of <u>GAS IN PIPE</u>	<b>RELEASED</b>  JAN 11 1996  <b>FROM CONFIDENTIAL</b>
Rec. <u>90</u>	Feet of <u>100% MUD</u>	
Rec. _____	Feet of _____	
Rec. _____	Feet of _____	

BHT 98 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 2 @ 98 °F Chlorides 2,100 ppm Recovery Chlorides 2,100 ppm System

(A) Initial Hydrostatic Mud	<u>1404.5</u> PSI	AK1 Recorder No. <u>11057</u>	Range <u>4500</u>
(B) First Initial Flow Pressure	<u>33.3</u> PSI	@ (depth) <u>3020</u>	w / Clock No. <u>25113</u>
(C) First Final Flow Pressure	<u>28.9</u> PSI	AK1 Recorder No. <u>11058</u>	Range <u>4500</u>
(D) Initial Shut-in Pressure	<u>790.7</u> PSI	@ (depth) <u>3027</u>	w / Clock No. <u>21048</u>
(E) Second Initial Flow Pressure	<u>43.3</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure	<u>37.8</u> PSI	@ (depth) _____	w / Clock No. _____
(G) Final Shut-in Pressure	<u>788.5</u> PSI	Initial Opening <u>30</u>	Final Flow <u>60</u>
(H) Final Hydrostatic Mud	<u>1368.9</u> PSI	Initial Shut-in <u>60</u>	Final Shut-in <u>120</u>

Our Representative MARK HUGHES

CHART PAGE



CHARTER This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1408	1404.5
(B) FIRST INITIAL FLOW PRESSURE	22	33.3
(C) FIRST FINAL FLOW PRESSURE	22	28.9
(D) INITIAL CLOSED-IN PRESSURE	782	790.7
(E) SECOND INITIAL FLOW PRESSURE	33	43.3
(F) SECOND FINAL FLOW PRESSURE	33	37.8
(G) FINAL CLOSED-IN PRESSURE	782	788.5
(H) FINAL HYDROSTATIC MUD	1353	1368.9

FLUID SAMPLER DATA

CONFIDENTIAL  
ORIGINAL

Ticket No.: 7709

Date: 12/4/94

Company: GIANT EXPLORATION

Lease: ADAMS #32-H

Test No.: 1

County: MEADE

Sec.: 32

Twp.: 34S

Rng.: 30W

SAMPLER RECOVERY

Gas 7.6 ML

Oil ML

Mud ML

Water ML

Other ML

Pressure 750 PSI

TOTAL 4,000 ML

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 2,100

Resistivity ohms@ F

Viscosity 43

Mud Wt. 8.7

Filtrate 11.9

Other

PIPE RECOVERY

TOP

Resistivity 2 ohms@ 98 F

Chlorides 2,100 ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity 2 ohms@ 98 F

Chlorides 2,100 ppm

# GAS VOLUME REPORT

GIANT EXPLORATION

ADAMS #32-H

DST # 1

MIN	IN WATER/PSIG	ORIFICE	MCF/D	MIN	IN WATER/PSIG	ORIFICE	MCF/D
10	80	0.375	31.8				
15	70	0.375	29.8				
20	40	0.375	22.5				
25	38	0.375	21.9				
30	36	0.375	21.3				
35	36	0.375	21.3				
40	40	0.375	22.5				
45	44	0.375	23.6				
50	48	0.375	24.7				
55	52	0.375	25.7				
60	56	0.375	26.6				

Remarks:

ORIGINAL  
CONFIDENTIAL

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, L.L.C.  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number:	940627	Analyzed:	12/05/94
Sample From:	Adams DST 1	Pressure:	
Producer:	Giant Exploration	Temperature:	
Date:		Location:	32-34-30
Time:		County:	Meade
Sampler:		State:	Kansas
Source:		Formation:	C. Grove

	Mole %	GPM
Helium	He: 0.761	0.000
Oxygen	O2:	
Nitrogen	N2: 20.073	0.000
Carbon Dioxide	CO2: 0.998	0.000
Methane	C1: 68.425	0.000
Ethane	C2: 5.195	1.389
Propane	C3: 2.107	0.581
Iso Butane	iC4: 0.544	0.178
Normal Butane	nC4: 0.833	0.263
Iso Pentane	iC5: 0.331	0.121
Normal Pentane	nC5: 0.362	0.131
Hexanes Plus	C6+: 0.371	0.162

TOTAL: 100.000 2.825  
Z Fact: 0.9978  
SP.GR.: 0.7338  
BTU (SAT): 915.6 @ 14.73 psia  
BTU (DRY): 931.8 @ 14.73 psia  
OCTANE RATING: 98.2

COMMENTS: Helium content calculated based on Nitrogen

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No. 7709

Well Name & No. ADAMS #32-H Test No. 1 Date 12-4-94  
 Company GIANT EXPL. Zone Tested COUNCIL GROVE  
 Address P.O. BOX 2810 FARMINGTON NEW MEXICO 87499 Elevation 2560 'KB'  
 Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay 12'  
 Location: Sec. 32 Twp. 34 Rge. 30 W Co. MEADE State KS  
 No. of Copies 5 Distribution Sheet Yes X No Turnkey Yes X No Evaluation

Interval Tested 3097-3035 Drill Pipe Size 4 1/2 XH  
 Anchor Length 18' Top Choke — 1" Bottom Choke — 1/4"  
 Top Packer Depth 3092 3012 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 3097 3017 Wt. Pipe I.D. — 2.7 Ft. Run  
 Total Depth 3035 Drill Collar — 2.25 Ft. Run 610'

Mud Wt. 8.7 lb/gal. Viscosity 43 Filtrate 11.9  
 Tool Open @ 4:30 PM Initial Blow STRONG SURFACE BLOW BUILT TO BOTTOM BUCKET  
30 SEC. I.S.I BLED OFF NO BLOW BACK.

Final Blow STRONG SURFACE BLOW BUILT TO BOTTOM BUCKET 30 SEC  
GAS TO SURFACE 10 MIN INTO OPENING FST. BLED OFF NO BLOW BACK

Recovery — Total Feet 90' Feet of Gas In Pipe ~~30~~ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>90'</u>	<u>Dry mud</u>			<u>100%</u>	<u>mud</u>
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 98 °F Gravity °API @ °F Corrected Gravity °API

RW 2 @ 98 °F chlorides 2100 ppm Recovery Chlorides 2100 ppm System

(A) Initial Hydrostatic Mud 1408 PSI AK1 Recorder No. 11057 Range 4500  
 (B) First Initial Flow Pressure 22 PSI @ (depth) 3020 w/Clock No. 25113  
 (C) First Final Flow Pressure 22 PSI AK1 Recorder No. 11058 Range 4500  
 (D) Initial Shut-In Pressure 782 PSI @ (depth) 3027 w/Clock No. 21048  
 (E) Second Initial Flow Pressure 33 PSI AK1 Recorder No. Range  
 (F) Second Final Flow Pressure 33 PSI @ (depth) w/Clock No.  
 (G) Final Shut-In Pressure 782 PSI Initial Opening 30 Test X 600  
 (H) Final Hydrostatic Mud 1353 PSI Initial Shut-In 60 Jars X 200

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 60 Safety Joint X 50  
 Final Shut-In 120 Straddle  
 Circ. Sub X N/C  
 Sampler X 200  
 Extra Packer  
 Other  
 TOTAL PRICE \$ 1050

Approved By David G. Clark  
 Our Representative M. Hughes

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 7709 Date 12-4-94  
Company Name GIANT EXPL.  
Lease ADAMS 32-14 Test No. 1  
County MEADE KS Sec. 32 Twp. 37 Rng. 3

### SAMPLER RECOVERY

Gas 76 ML  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure 750 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 2100 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 43  
Mud Weight 87  
Filtrate 11.9  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity 2 ohms @ 98 F  
Chlorides 2100 ppm.  
MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
BOTTOM  
Resistivity 2 ohms @ 98 F  
Chlorides 2100 ppm.





# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name ADAMS #32-H Test No. 2 Date 12/07/94  
Company GIANT EXPLORATION Zone LANSING  
Address P O BOX 2810, FARMINGTON, NM 87499 Elevation 2560  
Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 32 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested	<u>4430-4469</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>39</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4425</u>	Drill Collar - 2.25 Ft. Run	<u>610</u>
Bottom Packer Depth	<u>4430</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>4469</u>	Viscosity	<u>48</u> Filtrate <u>8.0</u>

Tool Open @ 9:35PM Initial Blow STRONG BLOW BUILT TO BOTTOM OF BUCKET IN 15 SECONDS. TO SURFACE IN 28 MIN. GAS TO SURFACE IN 5 MIN. ISI: BLED OFF STRONG BLOW B  
Final Blow STRONG SURFACE BLOW. BOTTOM OF BUCKET IN 15 SECONDS. FLUID 25 MIN INTO SECOND OPENING. FINAL SHUT IN - STRONG BLOW BACK.

Recovery - Total Feet 1840 Flush Tool? NO

Rec. 1840 Feet of SALT WATER. 100% WATER.  
Rec. \_\_\_\_\_ Feet of (7 BARRELS OF FLUID PUMPED TO FRACK TANK - 2ND FLOW)  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 1.55 @ \_\_\_\_\_ °F Chlorides 123,000 ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud 2299.8 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 637.3 PSI @ (depth) 4434 w / Clock No. 25113

(C) First Final Flow Pressure 948.7 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1298.2 PSI @ (depth) 4461 w / Clock No. 21048

(E) Second Initial Flow Pressure 911.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

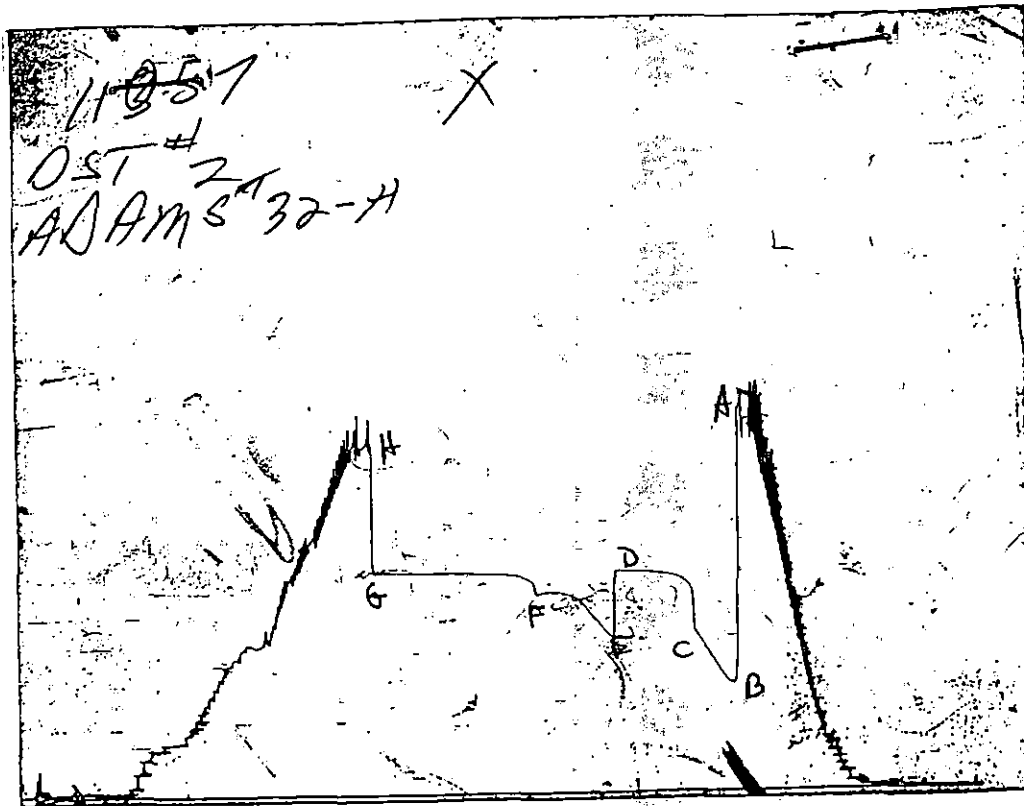
(F) Second Final Flow Pressure 1158.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1298.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2202.5 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HUGHES

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2309	2299.8
(B) FIRST INITIAL FLOW PRESSURE	649	637.3
(C) FIRST FINAL FLOW PRESSURE	950	948.7
(D) INITIAL CLOSED-IN PRESSURE	1298	1298.2
(E) SECOND INITIAL FLOW PRESSURE	917	911.8
(F) SECOND FINAL FLOW PRESSURE	1152	1158.1
(G) FINAL CLOSED-IN PRESSURE	1298	1298.2
(H) FINAL HYDROSTATIC MUD	2049	2202.5

# GAS VOLUME REPORT

GIANT EXPLORATION

ADAMS #32-H

DST # 2

MIN	<del>IN WATER/PSIG</del>	ORIFICE	MCF/D	MIN	IN WATER/ <del>PSIG</del>	ORIFICE	MCF/D
10	5	0.75	176	10	12	1.25	152
20	10	0.5	116	20	10	1.25	138
30	8	0.5	101	25	8	1.25	124

Remarks: GAS TO SURFACE IN 5 MINUTES - GAS WILL BURN.



## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, L.L.C.  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number:	940639	Analyzed:	12/10/94
Sample From:	Adams #32-H DST 2	Pressure:	
Producer:	Giant Exploration	Temperature:	
Date:		Location:	32-34-30
Sampler:		County:	Meade
Source:		State:	Kansas
		Formation:	Lansing

		Mole %	GPM
Helium	He:	0.639	0.000
Oxygen	O2:		
Nitrogen	N2:	16.860	0.000
Carbon Dioxide	CO2:	0.138	0.000
Methane	C1:	69.645	0.000
Ethane	C2:	5.288	1.414
Propane	C3:	3.981	1.097
Iso Butane	iC4:	0.609	0.199
Normal Butane	nC4:	1.466	0.462
Iso Pentane	iC5:	0.366	0.134
Normal Pentane	nC5:	0.418	0.151
Hexanes Plus	C6+:	0.590	0.257

TOTAL: 100.000 3.715  
Z Fact: 0.9974  
SP.GR.: 0.7494  
BTU (SAT): 1013.5 @ 14.73 psia  
BTU (DRY): 1031.4 @ 14.73 psia  
OCTANE RATING: 102.4

COMMENTS: Helium content calculated based on Nitrogen

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No. 7710

Well Name & No. ADAMS #32-H Test No. 2 Date 12-7-94  
 Company GIANT EXPL. Zone Tested LANSHUG  
 Address P.O. BOX 2810 FARMINGTON NEW MEXICO 87499 Elevation 2560' MS  
 Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 32 Twp. 34 Rge. 30 W Co. MEADE State KS  
 No. of Copies 5 Distribution Sheet \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4430 - 4469 Drill Pipe Size 4 1/2 YH  
 Anchor Length 39' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 4425 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 4430 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 2469 Drill Collar — 2.25 Ft. Run 610'  
 Mud Wt. 90 lb/gal. Viscosity 48 Filtrate 80

Tool Open @ 9:35 PM Initial Blow STRONG BLOW BUILT TO BOTTOM BUCKET IS SA  
FLUID TO SURFACE IN 28 MIN 6 TS IN 5 MIN: EST BLEED OFF STRONG BLOW BK.  
 Final Blow STRONG SURFACE BLOW @ 0.8. IS SEC FLUID 25 MIN INTO 2ND OPENING  
I. STRONG BLOW BACK

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>1840</u>	<u>1940'</u>	<u>NO</u>
Rec. <u>1840</u> Feet Of <u>SALT WATER</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>7 BBL'S OF FLUID PUMPED TO FRACK</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of <u>TANK</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of <u>2ND FLOW</u>	%gas _____ %oil _____ %water _____ %mud _____	

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 155 @ \_\_\_\_\_ °F Chlorides 123000 ppm Recovery Chlorides 1800 ppm System  
 (A) Initial Hydrostatic Mud 2309 PSI AK1 Recorder No. 11057 Range 4500  
 (B) First Initial Flow Pressure 649 PSI @ (depth) 4434 w/Clock No. 25113  
 (C) First Final Flow Pressure 950 PSI AK1 Recorder No. 11058 Range 4500  
 (D) Initial Shut-In Pressure 1298 PSI @ (depth) 4461 w/Clock No. 21048  
 (E) Second Initial Flow Pressure 917 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 2152 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 1298 PSI Initial Opening 30 Test X 1000  
 (H) Final Hydrostatic Mud 5049 PSI Initial Shut-In 60 Jars X 200

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Approved By Dave Clark Final Flow 60 Safety Joint X 50  
 Our Representative M. Hughes Final Shut-In 120 Straddle \_\_\_\_\_  
 Circ. Sub X N/C  
 Sampler X 200  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 8050



# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 7710 Date 12-7-94  
Company Name GIANT EXPL.  
Lease ADAMS #32-H Test No. 2  
County MEADE Sec. 32 Twp. 34 Rng. 30 W

### SAMPLER RECOVERY

Gas 23.1 ML  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure 1100 PSI  
Total 4600 ML

### PIT MUD ANALYSIS

Chlorides 1800 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 48  
Mud Weight 90  
Filtrate 80  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides 123000 ppm.  
MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides 123000 ppm.  
BOTTOM  
Resistivity 176 ohms @ 40 F  
Chlorides 125000 ppm.



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name ADAMS #32-H Test No. 3 Date 12/8/94  
Company GIANT EXPLORATION Zone LANSING DRUM  
Address P O BOX 2810, FARMINGTON, NM 87499 Elevation 2560  
Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay 6  
Location: Sec. 32 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested	<u>4736-4772</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>36</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>610</u>
Top Packer Depth	<u>4731</u>	Drill Collar - 2.25 Ft. Run	<u>8.9</u> lb/Gal.
Bottom Packer Depth	<u>4736</u>	Mud Wt.	<u>45</u>
Total Depth	<u>4772</u>	Viscosity	<u>8.0</u> Filtrate

Tool Open @ 10:00AM <sup>Initial Blow</sup> STRONG SURFACE BLOW, BUILT TO BOTTOM OF BUCKET IN 15 S  
GAS TO SURFACE IN 6 MINUTES. ISI - BLED OFF, NO BLOW BACK.  
Final Blow STRONG SURFACE BLOW. GAS TO SURFACE IN 30 SECONDS. FINAL SHUT IN  
BLED OFF, NO BLOW BACK.

Recovery - Total Feet 270 Flush Tool? NO

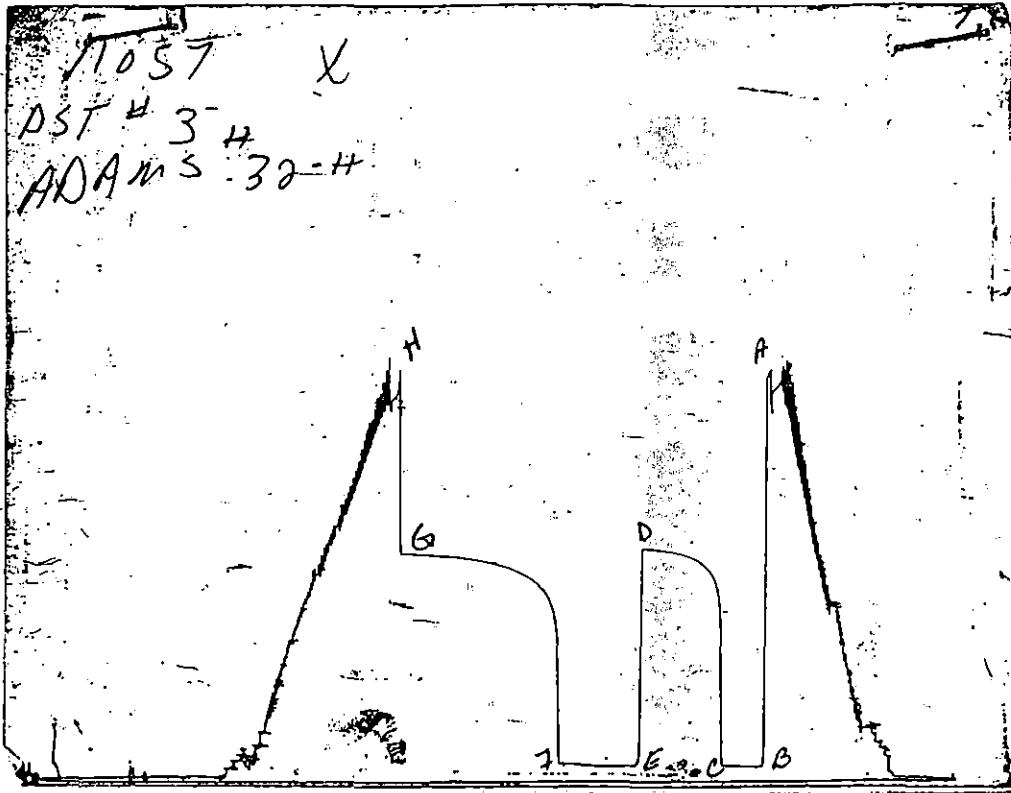
Rec. 270 Feet of GAS CUT MUD. 10% GAS; 90% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2600 ppm System

(A) Initial Hydrostatic Mud 2293.0 PSI AK1 Recorder No. 11057 Range 4500  
(B) First Initial Flow Pressure 108.7 PSI @ (depth) 4739 w / Clock No. \_\_\_\_\_  
(C) First Final Flow Pressure 108.7 PSI AK1 Recorder No. 11058 Range 4500  
(D) Initial Shut-in Pressure 1376.7 PSI @ (depth) 4464 w / Clock No. \_\_\_\_\_  
(E) Second Initial Flow Pressure 109.9 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 109.9 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 1327.4 PSI Initial Opening 30 Final Flow 60  
(H) Final Hydrostatic Mud 2251.1 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HUGHES

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2366	2293
(B) FIRST INITIAL FLOW PRESSURE	89	108.7
(C) FIRST FINAL FLOW PRESSURE	89	108.7
(D) INITIAL CLOSED-IN PRESSURE	1365	1376.7
(E) SECOND INITIAL FLOW PRESSURE	89	109.9
(F) SECOND FINAL FLOW PRESSURE	100	109.9
(G) FINAL CLOSED-IN PRESSURE	1331	1327.4
(H) FINAL HYDROSTATIC MUD	2253	2251.1

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

GIANT EXPLORATION

ADAMS #32-H

DST 3

32 34S 30W

MEADE KS

\*\*\*\*\*  
ELEVATION: 2560 KB EST. PAY: 6 FT.  
DATUM: -2180 ZONE TESTED: LANSING DRUM  
TEST INTERVAL: 4736-4772 TIME INTERVALS: 30-60-60-120  
RECORDER DEPTH: 4739 VISCOSITY: 0.01454 CP  
BOTTOM HOLE TEMP: 112 HOLE SIZE: 7.875 IN  
COMPRESSIBILITY: 0.9974 GAS GRAVITY: 0.7593  
\*\*\*\*\*

TEMPERATURE RANKINE: 572.00 &  
TRANSMISSIBILITY: 1138.96 Kh/%  
THEORITICAL FLOW CAPICITY: 16.56 Kh  
AVERAGE EFFECTIVE PERMEABILITY: 2.76 K(md.)  
RADIUS OF INVESTIGATION: 15.76 FT.  
DAMAGE RATIO: 2.91  
ABSOLUTE OPEN FLOW(MAX) 126.54 MCFD  
ABSOLUTE OPEN FLOW(MIN) 126.27 MCFD  
THEORITICAL OPEN FLOW(MAX) 368.61 MCFD  
THEORITICAL OPEN FLOW(MIN) 367.82 MCFD  
POTENTIOMETRIC SURFACE 865.00 (FT.)  
\*\*\*\*\*

INITIAL SHUT-IN VALUES:  
SLOPE 103318.0  
THEORETICAL STATIC PRESSURE 1413.7

FINAL SHUT-IN VALUES:  
SLOPE 103318.0  
THEORETICAL STATIC PRESSURE 1371.8

DRAWDOWN FACTOR: 2.97 (%)

INITIAL FLOW

DST # 3  
RECORDER 11057

TIME(MIN)	PRESSURE	<> PRESSURE
0	108.7	108.7
3	108.7	0.0
6	108.7	0.0
9	108.7	0.0
12	108.7	0.0
15	108.7	0.0
18	108.7	0.0
21	108.7	0.0
24	108.7	0.0
27	108.7	0.0
30	108.7	0.0

108.7  
108.7  
(108.7) 108.7

108.7  
108.7  
108.7  
108.7

0.318501

108.7  
108.7  
108.7  
108.7

# FINAL FLOW

DST # 3  
RECORDER 11057

TIME(MIN)	PRESSURE	<> PRESSURE
0	109.9	109.9
3	109.9	0.0
6	109.9	0.0
9	109.9	0.0
12	109.9	0.0
15	109.9	0.0
18	109.9	0.0
21	109.9	0.0
24	109.9	0.0
27	109.9	0.0
30	109.9	0.0
33	109.9	0.0
36	109.9	0.0
39	109.9	0.0
42	109.9	0.0
45	109.9	0.0
48	109.9	0.0
51	109.9	0.0
54	109.9	0.0
57	109.9	0.0

INITIAL SHUT-IN

ADAMS #32-H

DST # 3

INITIAL FLOW TIME 30

SLOPE 103318.0 PSI/CYCLE  
P\* 1413.71 PSI

TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
3	623.9	1.041	623.9	11
6	1135.6	0.778	511.7	6
9	1199.5	0.637	63.9	4
12	1242.1	0.544	42.6	4
15	1267.9	0.477	25.8	3
18	1293.7	0.426	25.8	3
21	1306.0	0.385	12.3	2
24	1319.5	0.352	13.5	2
27	1326.2	0.325	6.7	2
30	1338.6	0.301	12.3	2
33	1344.2	0.281	5.6	2
36	1349.8	0.263	5.6	2
39	1356.5	0.248	6.7	2
42	1362.1	0.234	5.6	2
X 45	1363.2	0.222	1.1	2
48	1367.7	0.211	4.5	2
51	1371.1	0.201	3.4	2
54	1374.4	0.192	3.4	2
57	1375.6	0.184	1.1	2
60	1376.7	0.176	1.1	2
63	1376.7	0.169	0.0	1
X 66	1376.7	0.163	0.0	1

FINAL SHUT-IN

ADAMS #32-H

DST # 3

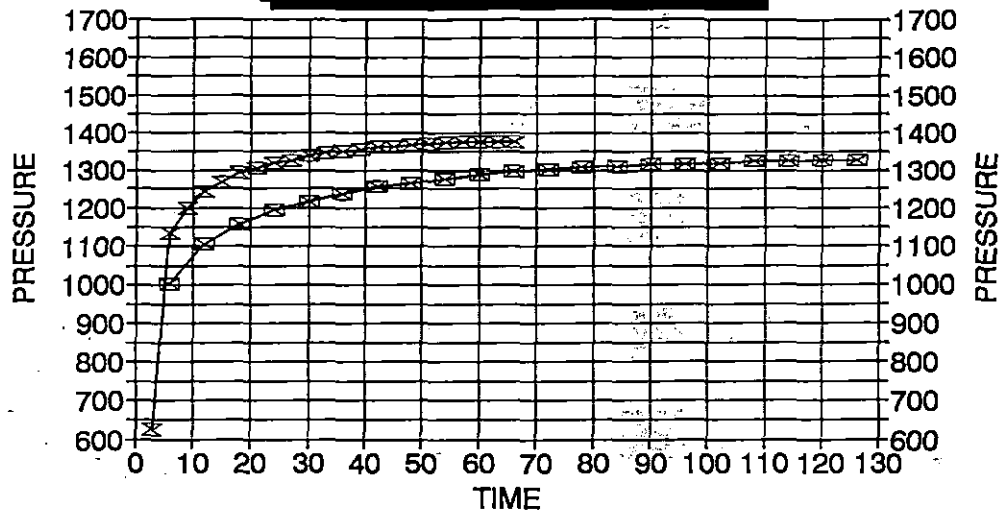
TOTAL FLOW TIME 90

-----  
 SLOPE 103318.0 PSI/CYCLE  
 P\* 1371.79 PSI  
 -----

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	6	1004.5	1.204	1004.5	16
	12	1105.4	0.929	100.9	9
	18	1156.9	0.778	51.6	6
	24	1192.8	0.677	35.9	5
	30	1217.5	0.602	24.7	4
	36	1236.5	0.544	19.1	4
	42	1255.6	0.497	19.1	3
	48	1266.8	0.459	11.2	3
	54	1275.8	0.426	9.0	3
	60	1287.0	0.398	11.2	3
	66	1296.0	0.374	9.0	2
	72	1302.7	0.352	6.7	2
	78	1307.2	0.333	4.5	2
	84	1311.7	0.316	4.5	2
	90	1317.3	0.301	5.6	2
X	96	1317.3	0.287	0.0	2
	102	1320.6	0.275	3.4	2
	108	1325.1	0.263	4.5	2
	114	1325.1	0.253	0.0	2
	120	1327.4	0.243	2.2	2
X	126	1327.4	0.234	0.0	2

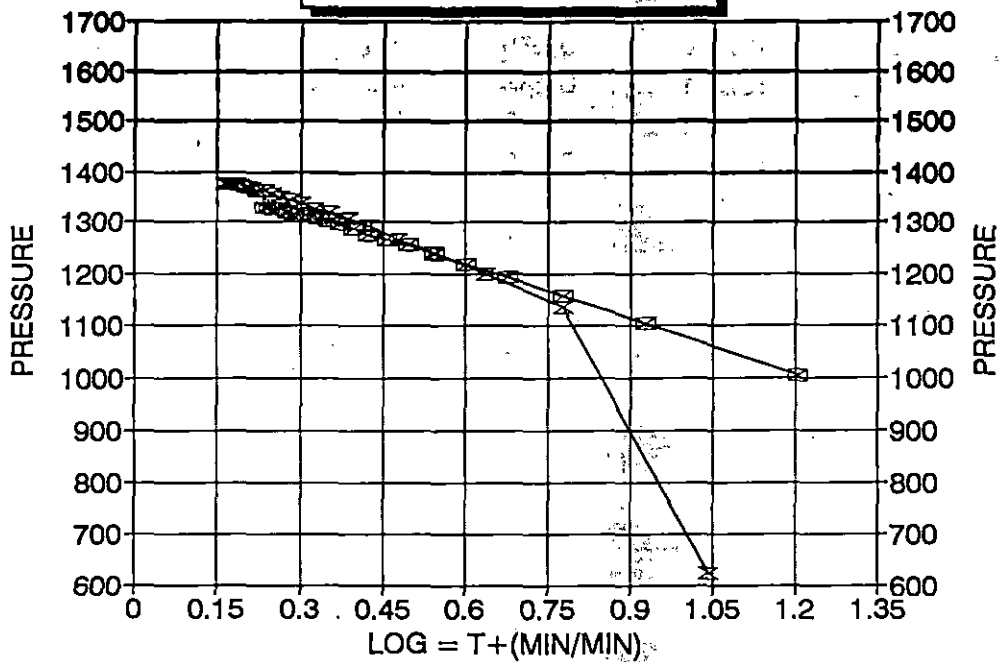
# DELTA T DELTA P

## ADAMS #32-H, DST #3



—x— INITIAL —o— FINAL

# HORNER PLOT







# GAS VOLUME REPORT

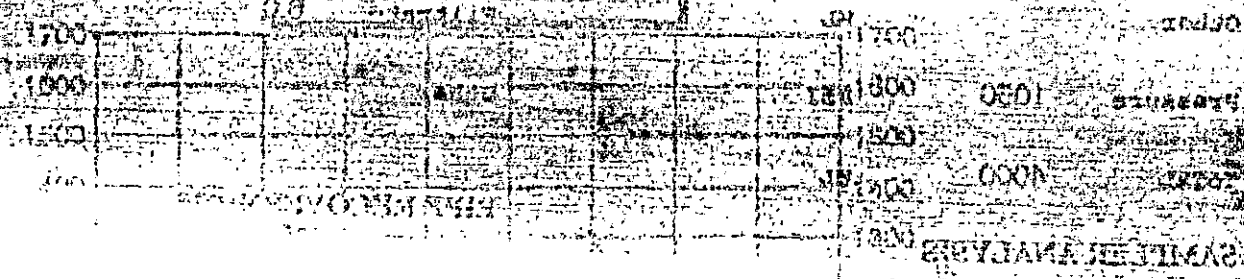
GIANT EXPLORATION

ADAMS #32-H

DST # 3

MIN	IN WATER/PSIG	ORIFICE	MCF/D	MIN	IN WATER/PSIG	ORIFICE	MCF/D
10	44	1	171	5	68	1	213
15	46	1	175	10	78	1	228
20	46	1	175	15	70	1	216
25	42	1	167	20	58	1	197
30	42	1	167	25	48	1	179
				30	42	1	167
				35	36	1	155
				40	32	1	146
				45	30	1	141
				50	26	1	132
				55	24	1	126
				60	24	1	126

9.8  
CORNER FLOW



Remarks: GAS TO SURFACE IN 6 MINUTES - GAS WILL BURN.

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L.L.C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-624-5389  
 Fax: 316-626-7108

Lab Number:	940640	Analyzed:	12/10/94
Sample From:	Adams #32-H DST 3	Pressure:	
Producer:	Giant Exploration	Temperature:	
Date:		Location:	32-34-30
Time:		County:	Meade
Sampler:		State:	Kansas
Source:		Formation:	Lansing Drum

		Mole %	GPM
Helium	He:	0.697	0.000
Oxygen	O2:		
Nitrogen	N2:	18.395	0.000
Carbon Dioxide	CO2:	0.197	0.000
Methane	C1:	67.146	0.000
Ethane	C2:	6.233	1.667
Propane	C3:	4.144	1.142
Iso Butane	iC4:	0.547	0.179
Normal Butane	nC4:	1.265	0.399
Iso Pentane	iC5:	0.309	0.113
Normal Pentane	nC5:	0.360	0.130
Hexanes Plus	C6+:	0.707	0.308
TOTAL:		100.000	3.939
- Z Fact:		0.9974	
- SP.GR.:		0.7593	
BTU (SAT):		1002.0 @ 14.73 psia	
BTU (DRY):		1019.8 @ 14.73 psia	
OCTANE RATING:		100.0	

COMMENTS: Helium content calculated based on Nitrogen

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No. 7711

Well Name & No. ADAMS #32-H Test No. 3 Date 12-8-94  
 Company GIANT EXPL. Zone Tested (LAWSON DRUM)  
 Address P.O. Box 2810 FARMINGTON NEW MEXICO 87499 Elevation 7560 (KB)  
 Co. Rep./Geo. DAVE CLARK Cont. BEREDLO Est. Ft. of Pay 6'  
 Location: Sec. 32 Twp. 34 Rge. 30.W Co. MEADE State KS  
 No. of Copies 5 Distribution sheet Yes  No Turnkey Yes  No  Evaluation

Interval Tested 4736-4772 Drill Pipe Size 4 1/2 XH  
 Anchor Length 36' Top Choke — 1" Bottom Choke — 3/4"  
 Top Packer Depth 4731 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 4736 Wt. Pipe I.D. — 2.7 Ft. Run  
 Total Depth 4772 Drill Collar — 2.25 Ft. Run 610'  
 Mud Wt. 8.9 lb/gal. Viscosity 45 Filtrate 8.0

Tool Open @ 10:00 AM Initial Blow STRONG SURFACE BLOW BUILT TO BOTTOM BUCKET IS

6.75.6 MIN (I.S.I BLED OFF, NO BLOW BACK)

Final Blow STRONG SURFACE BLOW GAS TO SURFACE 30 SEC

F.S.I BLED OFF NO BLOW BACK

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>270'</u>		<u>NO</u>
Rec. <u>270'</u> Feet Of <u>GAS OUT MUD</u>	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil

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

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2600 ppm System

(A) Initial Hydrostatic Mud 2366 PSI Ak1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 89 PSI @ (depth) 4739 w/Clock No. \_\_\_\_\_

(C) First Final Flow Pressure 89 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-In Pressure 1365 PSI @ (depth) 4464 w/Clock No. \_\_\_\_\_

(E) Second Initial Flow Pressure 89 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 100 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

(G) Final Shut-In Pressure 1331 PSI Initial Opening 30 Test  1600

(H) Final Hydrostatic Mud 2253 PSI Initial Shut-in 60 Jars  200

Final Flow 60 Safety Joint  50

Final Shut-in 170 Straddle \_\_\_\_\_

Circ. Sub  (N/C)

Sampler  200

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

Other val 50

TOTAL PRICE \$ 1100

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.

Approved By David W Clark

Our Representative M. Hughes

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 7710 Date 12-8-94  
Company Name GIANT EXPL.  
Lease ADAMS #32-14 Test No. 3  
County MEADE Sec. 32 Twp. 34 Rng. 30

### SAMPLER RECOVERY

Gas 13.6 ML  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure 1050 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 2600 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 45  
Mud Weight 89  
Filtrate 80  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
BOTTOM  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.



# TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

## GAS VOLUME REPORT #

GIANT EXPL.

ADAMS 37-H

3

OPERATOR

WELL NAME AND NO.

DST NO.

1ST FLOW

2ND FLOW

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D	
10	44	1"	171	5	68	1"	213	
15	46	}	175	10	78	}	228	
20	46		175	15	70		216	
25	42		167	20	58		197	
30	42		167	25	48		179	
				30	42			167
				35	36			155
				40	32			144
				45	30			141
				50	26			132
				55	24			126
				60	24	1"	126	

Remarks: G.T.S. 6 MIN  
(GAS WILL BURN)

~~GAS TEST~~  
~~G.T.S. 30 SEC~~  
~~(GAS WILL BURN)~~

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name ADAMS #32-H Test No. 4 Date 12/12/94  
Company GIANT EXPLORATION Zone UPPER CHESTE  
Address P O BOX 2810, FARMINGTON, NM 87499 Elevation 2560  
Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay 14  
Location: Sec. 32 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested	<u>5786-5838</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>52</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>601</u>
Top Packer Depth	<u>5781</u>	Drill Collar - 2.25 Ft. Run	<u>9.1</u> lb/Gal.
Bottom Packer Depth	<u>5786</u>	Mud Wt.	<u>50</u>
Total Depth	<u>5838</u>	Viscosity	<u>7.2</u> Filtrate

Tool Open @ 12:00AM <sup>Initial</sup> Blow WEAK BLOW, BUILT TO BOTTOM OF BUCKET IN 3 MINUTES.  
INITIAL SHUT IN: BLED OFF (GAS IN BLED OFF).  
Final Blow GAS TO SURFACE AS SOON AS TOOL OPENED. FINAL SHUT IN: BLED OFF.  
BLOW BACK. (CHART INDICATES PLUGGING DURING FIRST FLOW.)

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of GAS CUT MUD. 100% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

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

(A) Initial Hydrostatic Mud 2918.5 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 98.7 PSI @ (depth) 5784 w / Clock No. 25113

(C) First Final Flow Pressure 225.3 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1802.7 PSI @ (depth) 5830 w / Clock No. 21048

(E) Second Initial Flow Pressure 35.9 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

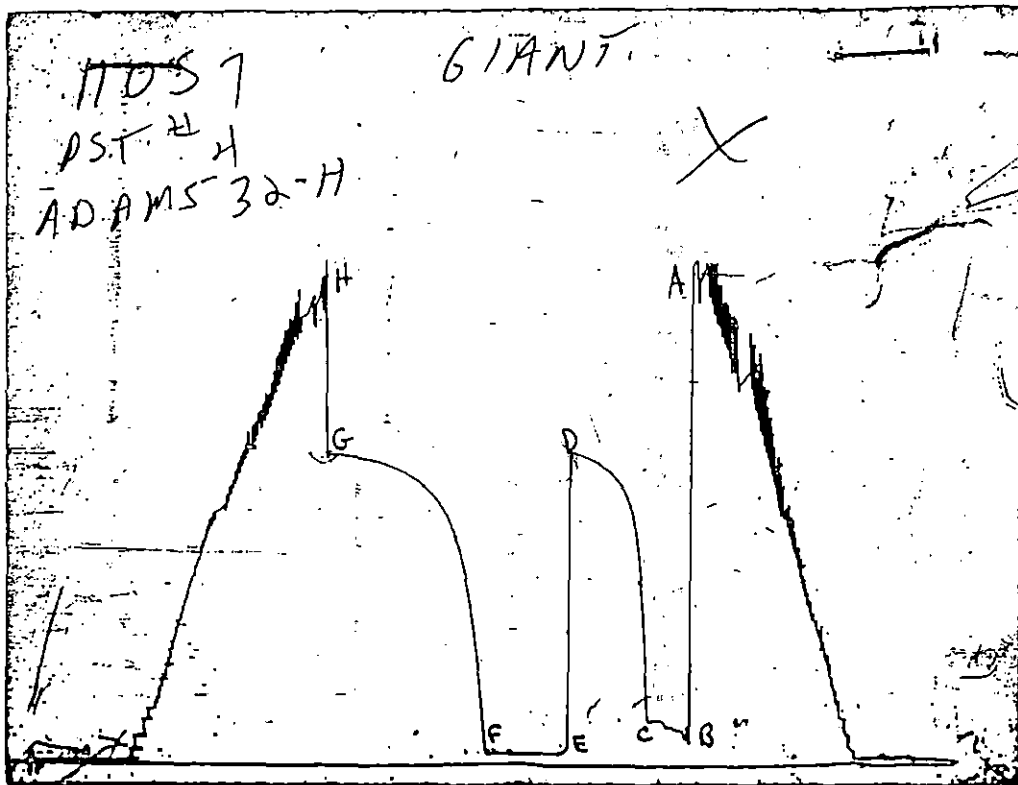
(F) Second Final Flow Pressure 35.9 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1802.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2794.1 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HUGHES

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2984	2918.5
(B) FIRST INITIAL FLOW PRESSURE	177	98.7
(C) FIRST FINAL FLOW PRESSURE	266	225.3
(D) INITIAL CLOSED-IN PRESSURE	1850	1802.7
(E) SECOND INITIAL FLOW PRESSURE	77	35.9
(F) SECOND FINAL FLOW PRESSURE	66	35.9
(G) FINAL CLOSED-IN PRESSURE	1850	1802.7
(H) FINAL HYDROSTATIC MUD	2804	2794.1





# GAS VOLUME REPORT

GIANT EXPLORATION

ADAMS #32-H

DST # 4

MIN	IN WATER/PSIG	ORIFICE	MCF/D	MIN	<del>IN WATER/PSIG</del>	ORIFICE	MCF/D
				10	80" WATER	0.25	15
				15	4	0.25	18.5
				20	5	0.25	20.7
				25	5.5	0.25	21.8
				30	6	0.25	22.9
				35	6	0.25	22.9
				40	6.5	0.25	23.9
				45	7	0.25	25
				50	6.5	0.25	23.9
				55	7	0.25	25
				60	6.5	0.25	23.9

Remarks: GAS TO SURFACE AS TOOL OPENED ON SECOND FLOW. GAS WILL BURN.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 7712

Well Name & No. ADAMS #32-H Test No. 4 Date 12-12-94  
 Company GIANT EXPL. Zone Tested UPPER CHESTER  
 Address P.O. BOX 2810 FARMINGTON NEW MEXICO 87499 Elevation 2560 (KB)  
 Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay 14'  
 Location: Sec. 32 Twp. 34 Rge. 30 W Co. MEADE State KS  
 No. of Copies 5 Distribution Sheet  Yes  No Turnkey  Yes  No  Evaluation

Interval Tested 5786-5838 Drill Pipe Size 4 1/2 XH  
 Anchor Length 52' Top Choke — 1" Bottom Choke — 1/4"  
 Top Packer Depth 5781 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 5786 Wt. Pipe I.D. — 2.7 Ft. Run  
 Total Depth 5838 Drill Collar — 2.25 Ft. Run 601'  
 Mud Wt. 9.1 lb/gal. Viscosity 50 Filtrate 7.2

Tool Open @ 12:00 AM Initial Blow WEAK BLOW BUILT TO BOTTOM BUCKET 3 MIN  
TEST BLED OFF (GAS IN BLED OFF)

Final Blow GTS AS SOON AS TOOL OPENED Chart indicates  
TEST BLED OFF NO BLOW BACK plugging during first flow

Recovery — Total Feet 60' Feet of Gas In Pipe \_\_\_\_\_ Flush Tool? Flow

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>60'</u>	<u>GCM</u>			<u>100</u>	
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

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

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 2984 PSI AK1 Recorder No. 11057 Range 4500  
 (B) First Initial Flow Pressure 177 PSI @ (depth) 5784 w/Clock No. 25113  
 (C) First Final Flow Pressure 266 PSI AK1 Recorder No. 11058 Range 4500  
 (D) Initial Shut-In Pressure 1850 PSI @ (depth) 5830 w/Clock No. 21048  
 (E) Second Initial Flow Pressure 77 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 66 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 1850 PSI Initial Opening 30 Test   
 (H) Final Hydrostatic Mud 280.4 PSI Initial Shut-In 60 Jars 4

Final Flow 60 Safety Joint   
 Final Shut-In 120 Straddle \_\_\_\_\_  
 Circ. Sub  CNC  
 Sampler

Approved By David A Clark  
 Our Representative M. Hughes  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_

Printcraft Printers - Hays, KS TOTAL PRICE \$ \_\_\_\_\_

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.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 7712 Date 12-12-94  
Company Name GIANT EXPL.  
Lease ADAMS #32-H Test No. 4  
County MEADE KS Sec. 32 Twp. 34 Rng. 30W

### SAMPLER RECOVERY

Gas 19.8 cu ft ML  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure 1500 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 1500 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 50  
Mud Weight 9.1  
Filtrate 7.2  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
BOTTOM  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name ADAMS #32-H Test No. 5 Date 12/15/94  
Company GIANT EXPLORATION Zone ST LOUIS  
Address P O BOX 2810, FARMINGTON, NM 87499 Elevation 2560  
Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 32 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested	<u>6256-6362</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>106</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>6251</u>	Drill Collar - 2.25 Ft. Run	<u>610</u>
Bottom Packer Depth	<u>6256</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>6362</u>	Viscosity	<u>58</u>
		Filtrate	<u>7.8</u>

Tool Open @ 1:25PM Initial Blow WEAK SURFACE BLOW, BUILT TO 3" INTO BUCKET. INITIAL SHUT IN: BLED OFF. NO BLOW BACK.  
Final Blow WEAK SURFACE BLOW, BUILT TO 1" INTO BUCKET. FINAL SHUT IN: BLED OFF. NO BLOW BACK.

Recovery - Total Feet 10 Flush Tool? NO

Rec.	<u>10</u>	Feet of	<u>MUD. 100% MUD.</u>
Rec.	_____	Feet of	_____
Rec.	_____	Feet of	_____
Rec.	_____	Feet of	_____
Rec.	_____	Feet of	_____

BHT 130 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud	<u>3251.1</u> PSI	AK1 Recorder No.	<u>11057</u>	Range	<u>4500</u>
(B) First Initial Flow Pressure	<u>25.8</u> PSI	@ (depth)	<u>6259</u>	w / Clock No.	<u>25113</u>
(C) First Final Flow Pressure	<u>25.8</u> PSI	AK1 Recorder No.	<u>11058</u>	Range	<u>4500</u>
(D) Initial Shut-in Pressure	<u>209.6</u> PSI	@ (depth)	<u>6295</u>	w / Clock No.	<u>21048</u>
(E) Second Initial Flow Pressure	<u>31.4</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>31.4</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>302.7</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>3188.9</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>120</u>

Our Representative MARK HUGHES



# FLUID SAMPLER DATA

Ticket No.: 7714

Date: 12/15/94

Company: GIANT EXPLORATION

Lease: ADAMS #32-H

Test No.: 5

County: MEADE

Sec.: 32

Twp.: 34S

Rng.: 30W

## SAMPLER RECOVERY

Gas		ML
Oil		ML
Mud	4000	ML
Water		ML
Other		ML
Pressure	TSTM	PSI
TOTAL	4000	ML

## SAMPLER ANALYSIS

Resistivity	ohms@	F
Chlorides		ppm.
Gravity		corrected @60F

## PIT MUD ANALYSIS

Chlorides	1500	
Resistivity		ohms@ F
Viscosity	58	
Mud Wt.	9.2	
Filtrate	7.8	
Other		

## PIPE RECOVERY

### TOP

Resistivity	ohms@	F
Chlorides		ppm

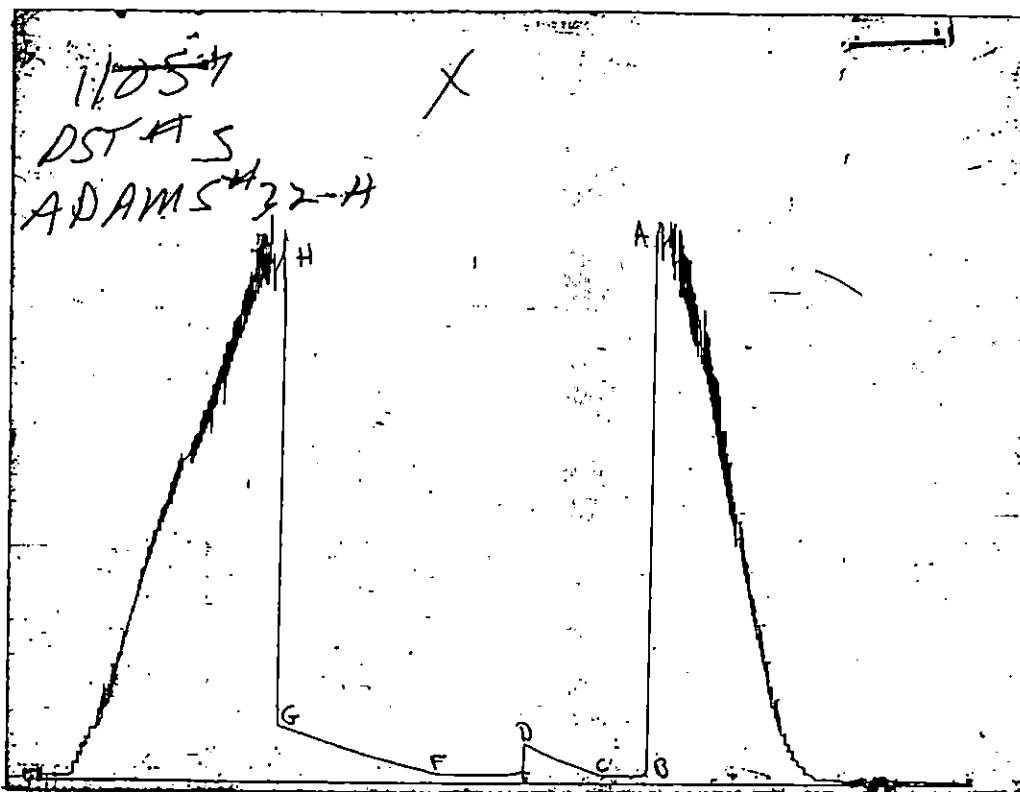
### MIDDLE

Resistivity	ohms@	F
Chlorides		ppm

### BOTTOM

Resistivity	ohms@	F
Chlorides		ppm

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	3271	3251.1
(B) FIRST INITIAL FLOW PRESSURE	44	25.8
(C) FIRST FINAL FLOW PRESSURE	44	25.8
(D) INITIAL CLOSED-IN PRESSURE	224	209.6
(E) SECOND INITIAL FLOW PRESSURE	56	31.4
(F) SECOND FINAL FLOW PRESSURE	56	31.4
(G) FINAL CLOSED-IN PRESSURE	336	302.7
(H) FINAL HYDROSTATIC MUD	3090	3188.9



# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 7714 Date 12-15-94  
Company Name GIANT EXPL  
Lease ADAMS #32-H Test No. 5  
County MEADE - KS Sec. 32 Twp. 34 Rng. 30 W

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
Oil \_\_\_\_\_ ML  
Mud 4000 ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure NOT ENOUGH TO REG. PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 1500 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 58  
Mud Weight 9.2  
Filtrate 7.8  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
BOTTOM  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 7714

Well Name & No. ADAMS # 32-H Test No. S Date 12-15-94  
 Company GIANT EXPL Zone Tested ST LOUIS  
 Address P.O. BOX 2810 FARMINGTON NEW MEXICO 87409 Elevation 2560 'KB'  
 Co. Rep./Geo. DAVE CLARK Cont. BEREDCO Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 32 Twp. 34 Rge. 30 W Co. MEADE State KS  
 No. of Copies 5 Distribution Sheet X Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey \_\_\_\_\_ Yes X No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 6256-6362 Drill Pipe Size 4 1/2 XH  
 Anchor Length 106 Top Choke — 1" \_\_\_\_\_ Bottom Choke — 1/4" \_\_\_\_\_  
 Top Packer Depth 6251 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 6256 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 6362 Drill Collar — 2.25 Ft. Run 610  
 Mud Wt. 9.2 lb/gal. Viscosity 58 Filtrate 7.8

Tool Open @ 1:25 PM Initial Blow WEAK SURFACE BLOW BUILT TO 3" INTO BUCKET  
1ST BLED OFF NO BLOW BACK  
 Final Blow WEAK SURFACE BLOW BUILT TO 1" INTO BUCKET  
1ST BLED OFF NO BLOW BACK

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>10'</u>		<u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 130 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 3271 PSI AK1 Recorder No. 11057 Range 4500  
 (B) First Initial Flow Pressure 44 PSI @ (depth) 6259 w/Clock No. 2513  
 (C) First Final Flow Pressure 44 PSI AK1 Recorder No. 11058 Range 4500  
 (D) Initial Shut-In Pressure 224 PSI @ (depth) 6295 w/Clock No. 21048  
 (E) Second Initial Flow Pressure 56 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 56 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 336 PSI Initial Opening 30 Test X  
 (H) Final Hydrostatic Mud 3090 PSI Initial Shut-In 60 Jars X

Final Flow 60 Safety Joint X  
 Final Shut-in 120 Straddle \_\_\_\_\_  
 Circ. Sub X (N/C)  
 Sampler X

Approved By Dave Clark  
 Our Representative M. Hughes  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_

TOTAL PRICE \$ \_\_\_\_\_

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.

Operator Name Giant Exploration & Production Lease Name Adams Well # 32-H

Sec. 32 Twp. 34S Rge. 30  East  West  
 County Meade

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wreford	2915'	-355'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Council Grove	3022'	-462'
List All E.Logs Run:		Heebner	4276'	-1716'
		Lansing "Kneeland"	4456'	-1896'
		Kansas City A	4941'	-2381'
		Marmaton A	5169'	-2609'
		Novinger	5258'	-2698'
		Morrow Shale	5712'	-3152'
		Upper Chester	5830'	-3270'
		Basal Chester SS	6064'	-3504'
		St. Genevieve	6117'	-3557'

CASING RECORD							
		<input checked="" type="checkbox"/> New <input type="checkbox"/> Used		St. Louis			
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor	30"	20"	54#	60'	Ready Mix	6vds.	N/A
Surface	12-1/4"	8-5/8"	24#	1523'	Prem. Light Prem. Plus	510 150	2% CaCl <sub>2</sub> 1/4 #7/sk Cellulose flakes

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) D & A

Production Interval \_\_\_\_\_

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACD-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

**ORIGINAL**

API NO. 15- 119-20922-00  
County Meade  
SE SE NE Sec. 32 Twp. 34S Rge. 30 E  
W

Operator: License # 9534  
Name: Giant Exploration & Production Co.  
Address P.O. Box 2810  
2200 Bloomfield Highway  
City/State/Zip Farmington, NM 87499-2810

2310 Feet from SA (circle one) Line of Section  
393 Feet from EW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE SE NW or SW (circle one)

Purchaser: N/A  
Operator Contact Person: Paul R. Williams  
Phone (505) 326-3325  
Contractor: Name: Beredco, Inc.

Lease Name Adams Well # 32-H  
Field Name Adams Ranch West

License: 5147  
Wellsite Geologist: Dave Clark

Producing Formation N/A  
Elevation: Ground 2548' KB 2560'  
Total Depth 6450' PBD N/A

**CONFIDENTIAL**

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

Amount of Surface Pipe Set and Cemented at 1523' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet

If Workover/Re-Entry: old well info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD \_\_\_\_\_  
Plug Back \_\_\_\_\_ PBD \_\_\_\_\_  
Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
12/01/94 12/16/94 N/A  
Spud Date Date Reached TD Completion Date

If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan D&A 1-9-96 SK  
(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume 0 bbls  
Dewatering method used natural evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name RELEASED  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
JAN 11 1996  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County FROM CONFIDENTIAL

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

PRW Signature JRV Jeffrey R. Vaughan  
Title Vice President Operations Date 12-27-94  
Subscribed and sworn to before me this 27<sup>th</sup> day of December,  
19 94.  
Notary Public Paula M. Nij  
Date Commission Expires 08-09-97

OFFICE USE ONLY  
Letter of Confidentiality Attached   
Wireline Log Received   
Geologist Report Received   
Distribution  
 KCC  SWD/Rep  NGPA  
 XGS  Plug  Other  
(Specify)



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATIONMid Confidential  
Liberal ksBILLED ON TICKET NO. 725508

### WELL DATA

FIELD \_\_\_\_\_ SEC. 32 TWP. 34s RING. 30w COUNTY. Meade STATE ksFORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	24	8 5/8	KB	1525	
LINER						
TUBING						
OPEN HOLE			17.25	G.L.	1530	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-1-94</u>	DATE <u>12-2-94</u>	DATE <u>12-2-94</u>	DATE <u>12-2-94</u>
TIME <u>2330</u>	TIME <u>0230</u>	TIME <u>0845</u>	TIME <u>0930</u>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSE/AN 8 5/8</u>		<u>Hawco</u>
FLOAT SHOE		
GUIDE SHOE <u>REG</u>	<u>1</u>	
CENTRALIZERS <u>REG</u>	<u>3</u>	
BOTTOM PLUG		
TOP PLUG <u>5W</u>	<u>1</u>	
HEAD <u>M.F.</u>	<u>1</u>	
PACKER <u>TAG GRIP</u>	<u>1</u>	
OTHER <u>WELD A</u>	<u>1</u>	

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Poyer #4812D</u>	<u>40048/P.L.</u>	<u>Liberal, ks</u>
<u>T. DAVIS F455D</u>	<u>7690V/2576-4</u>	<u>" "</u>
<u>S. PORTER #39613</u>	<u>5839/Bulk</u>	<u>Hopston ks</u>
<u>J. Beath #09511</u>	<u>5303/Bulk</u>	<u>" "</u>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ IN  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 PERFPAC BALLS TYPE \_\_\_\_\_ IN  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

RELEASED  
 JAN 11 1996  
 FROM CONFIDENTIAL

DEPARTMENT 5001  
 DESCRIPTION OF JOB Set Surface Csg.

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X David E Rice

HALLIBURTON OPERATOR Tom Poyer COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>510</u>	<u>PREM +</u>		<u>B</u>	<u>2%CC, 1/4 1/2" Floccia</u>	<u>2.06</u>	<u>12.3</u>
	<u>150</u>	<u>PREM +</u>		<u>B</u>	<u>2%CC, 1/4 1/2" Floccia</u>	<u>1.32</u>	<u>14.8</u>

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 44.20 REASON Shoe Joint

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 94  
 CEMENT SLURRY: BBL.-GAL. 187 + 35  
 TOTAL VOLUME: BBL.-GAL. 316

### REMARKS

cement to surface

CUSTOMER Grant Exp.  
 LEASE Adams  
 WELL NO. 32-A  
 JOB TYPE 8 5/8 S.P. (610)  
 DATE 12-2-94

CONFIDENTIAL

ORIGINAL

**JOB LOG** HAL-2013-C

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Grant Expl.	32-H	Adams	018 8 5/8 S.P.	705509

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2330							Called out Reg 0300
	0230							on loc - Drilling
	0510							T.O.H.
	0650							Run csq. @ 8 5/8 34 lb <b>CONFIDENTIAL</b>
	0820							Hook-up circ. <b>ORIGINAL</b>
	0840							Hook-up to conf.
	0843	0-7	187					↑ 5% / 150 Pump lead @ 510 s.x.
		7-6	35					↑ 15% / 200 Pump tail @ 450 s.x.
	0916	6-0						↓ 20% Shut down - Drop plug - wash-up tek.
	0918	0-7	94					↑ 9% / 450 Pump Displ. @ H <sub>2</sub> O
	0930	7-2						↑ 45% / 100 R. RATE
	0933	2-0						↑ 45% / 100 Plug landed
	0933							↓ 100% / 0 RELEASE PRESS. - Float hold
								Cement to surface
								Thanks Tom & crew
								<b>RELEASED</b>
								JAN 11 1996
								FROM CONFIDENTIAL



HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: **Grant Exploration**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

ORIGINAL

TICKET

No. 705508 - 1

PAGE 1 OF 2

1. SERVICE LOCATIONS <b>25540</b>	WELL/PROJECT NO. <b>32-H</b>	LEASE <b>Adams</b>	COUNTY/PARISH <b>MEADE</b>	STATE <b>Ks</b>	CITY/OFFSHORE LOCATION	DATE <b>12-2-94</b>	OWNER
2. <b>25535</b>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <b>Beradco</b>	RIG NAME/NO. <b>42</b>	SHIPPED VIA <b>H.E.S.</b>	DELIVERED TO <b>well site</b>	ORDER NO.
3.	WELL TYPE <b>01</b>	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>010</b>	WELL PERMIT NO.	WELL LOCATION <b>32-342-30W (LAND)</b>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DE							
000-117				20	MILEAGE	EA	mi	35	mi	192.75	192.50
001-016				20	Pump Chg	6	hrs	15	25 ft	1320.00	1320.00
080-018				20	Top plug SW	1	EA	8 7/8	in	130.00	130.00
12A	825.217				Guide Shoe	1	EA	8 7/8	in	216.00	216.00
24A	815.9502				Insert	"	"	"	"	171.00	171.00
27	815.19415				Fill-up	"	"	"	"	55.00	55.00
40	806.61048				Centralizers	3	EA	"	"	25.00	195.00
66	806.72052				FAC Grip	1	EA	"	"	13.75	13.75
350	890.10802				Weld A	1	lb			14.50	14.50

ORIGINAL

RELEASED

JAN 1 1 1996

CONFIDENTIAL FROM CONFIDENTIAL

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: **X David Eric**

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_

do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <b>2307.75</b>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) <b>19918.81</b>
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <b>8828.72</b>
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOBS CALCULATIONS SATISFACTORILY?					
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO					
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <b>David E. Rice</b>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X David Eric</b>	HALLIBURTON OPERATOR/ENGINEER <b>Tan Payne</b>	EMP # <b>48120</b>	HALLIBURTON APPROVAL <b>[Signature]</b>	<b>29%</b>
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