

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name McPHERSON COLLEGE #2-27 Test No. 1 Date 9/25/93
Company HARRIS OIL & GAS Zone ST LOUIS
Address 410 17th ST #2310 DENVER CO Elevation 3212 KB
Co. Rep./Geo. HAROLD FRAULI Cont. TRANS PACK DRLG RIG #2 Est. Ft. of Pay 4
Location: Sec. 27 Twp. 29S Rge. 39W Co. STANTON State KS

Interval Tested 5700-5735 Drill Pipe Size 4.5" XH
Anchor Length 35 Wt. Pipe I.D. - 2.7 Ft. Run
Top Packer Depth 5695-5700 Drill Collar - 2.25 Ft. Run 617
Bottom Packer Depth 5735 Mud Wt. 9.2 lb/Gal.
Total Depth 5825 Viscosity 60 Filtrate 8

Tool Open @ 8:10 PM Initial Blow 1.5" BLOW - BUILT TO BOTTOM OF BUCKET IN 5 MINUTES
ISI: bled off BLOW-WEAK BLOW-BUILT TO BOTTOM OF BUCKET IN 20 MINUTES
Final Blow 2" BLOW-BUILT TO BOTTOM OF BUCKET IN 4 MINUTES/GTS IN 36 MIN
FSI: bled off BLOW-WEAK BLOW BUILT TO BOTTOM OF BUCKET IN 15 MINUTES

Recovery - Total Feet 1183 Flush Tool? NO

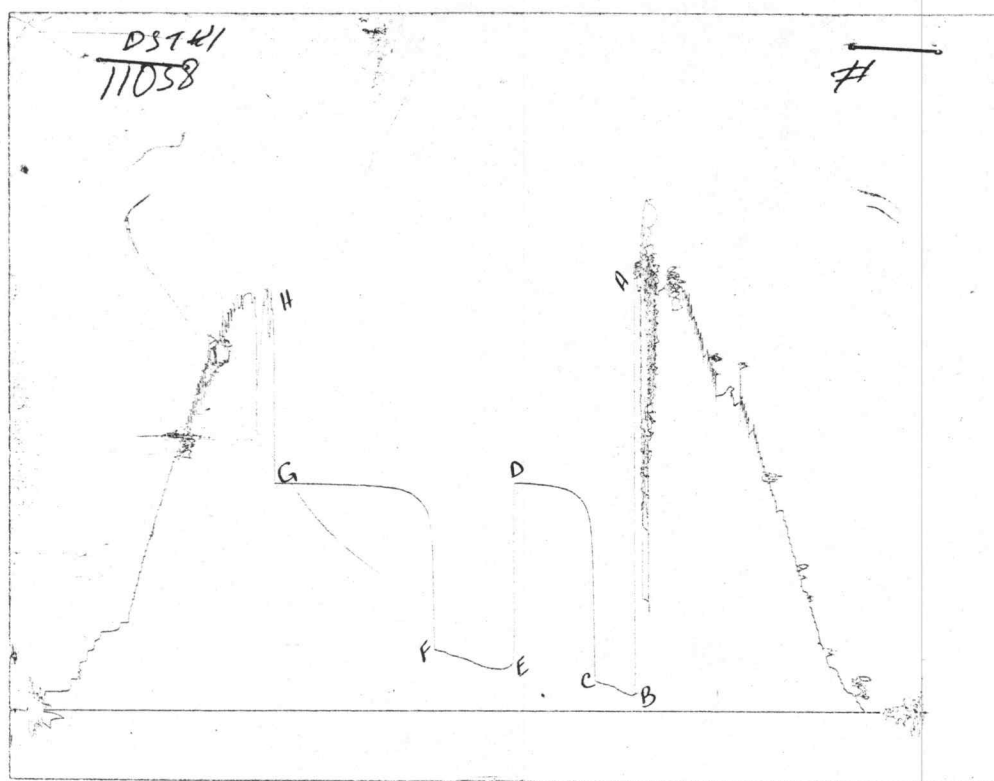
Rec. 472 Feet of CLEAN GASSY OIL-50% GAS/ 50% OIL
Rec. 538 Feet of GAS & MUD CUT OIL-25%GAS/ 60% OIL/ 15% MUD
Rec. 173 Feet of MUDDY SALT WATER
Rec. Feet of
Rec. Feet of

BHT 131 °F Gravity 44 °API @ 70 °F Corrected Gravity 43.2 °API
RW 0.21 @ 56 °F Chlorides 44000 ppm Recovery Chlorides 2300 ppm System

(A) Initial Hydrostatic Mud 2822.3 PSI AK1 Recorder No. 5495 Range 4200
(B) First Initial Flow Pressure 105.2 PSI @ (depth) 5705 w / Clock No. 25813
(C) First Final Flow Pressure 213.1 PSI AK1 Recorder No. 11038 Range 5075
(D) Initial Shut-in Pressure 1533.0 PSI @ (depth) 5727 w / Clock No. 25814
(E) Second Initial Flow Pressure 294.4 PSI AK1 Recorder No. 13615 Range 4575
(F) Second Final Flow Pressure 420.1 PSI @ (depth) 5768 w / Clock No. 3942
(G) Final Shut-in Pressure 1529.3 PSI Initial Opening 30 Final Flow 60
(H) Final Hydrostatic Mud 2780.1 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

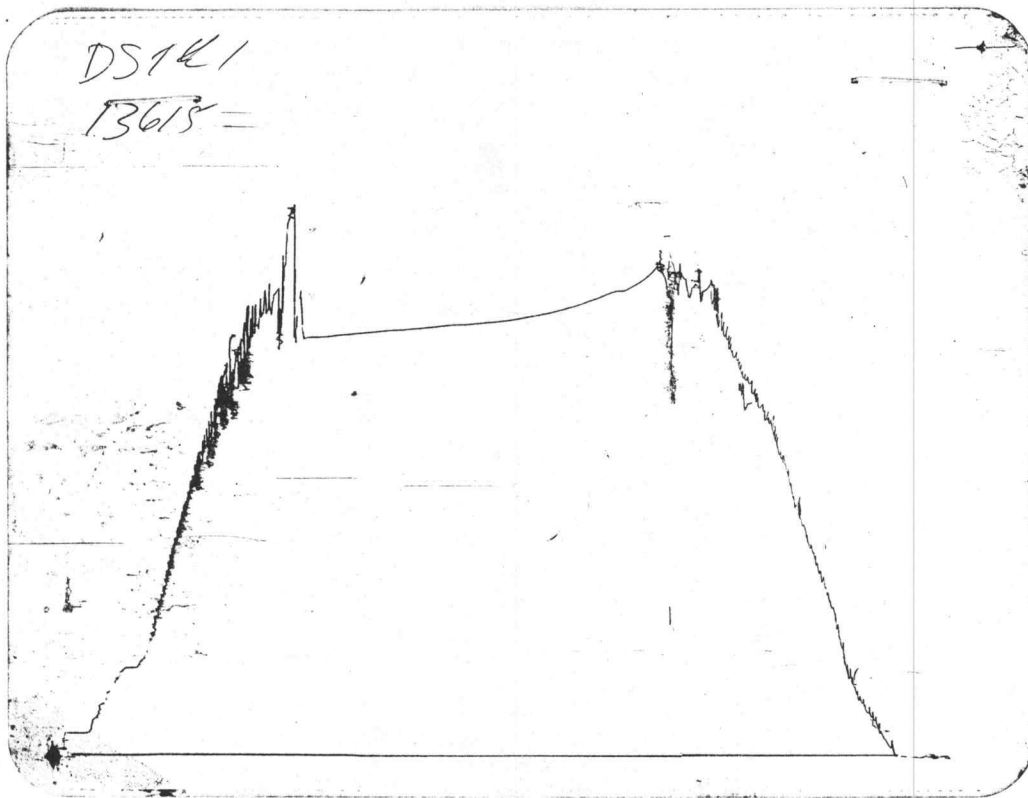
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2812	2822.3
(B) FIRST INITIAL FLOW PRESSURE	95	105.2
(C) FIRST FINAL FLOW PRESSURE	190	213.1
(D) INITIAL CLOSED-IN PRESSURE	1511	1533
(E) SECOND INITIAL FLOW PRESSURE	283	294.4
(F) SECOND FINAL FLOW PRESSURE	416	420.1
(G) FINAL CLOSED-IN PRESSURE	1511	1529.3
(H) FINAL HYDROSTATIC MUD	2773	2780.1

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

CALCULATED RECOVERY ANALYSIS

DST

1

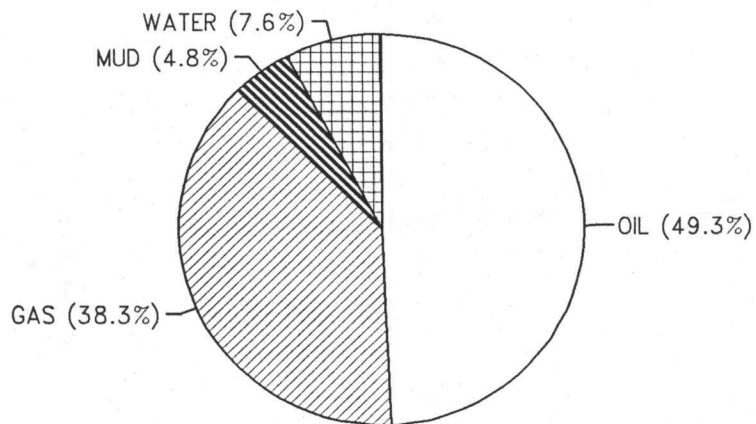
TICKET #

6089

SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	472	50	236	50	236	0	0	0	0
PIPE 2	94	25	23.5	60	56.4	0	0	15	14.1
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	444	25	111	60	266.4	0	0	15	66.6
COLLAR 2	173	0	0	0	0	100	173	0	0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1183		370.5		558.8		173		80.7

HRS OPEN BBL/DAY

BBL OIL= 5.460624 * 1.5 87.369984
 BBL WATER= 0.84597 * 13.53552
 BBL MUD= 0.526176
 BBL GAS = 4.23288



FLUID SAMPLER DATA

Ticket No.: 6089 Date: 9/25/93
Company: HARRIS OIL & GAS
Lease: MCPHERSON COLLEGE #2-27 Test No.: 1
County: STANTON Sec.: 27 Twp.: 29S Rng.: 39W

SAMPLER RECOVERY

Gas 8.3 CU FT
Oil 2300
Mud 200
Water 500
Other
Pressure 525
TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.21 ohms@ 56 F
Chlorides 44000 ppm.
Gravity 43.2 corrected @60F

PIT MUD ANALYSIS

Chlorides 2300
Resistivity 2.1 ohms@ 76 F
Viscosity 60
Mud Wt. 9.2
Filtrate 8
Other

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 0.21 ohms@ 56 F
Chlorides 44000 ppm

GAS VOLUME REPORT

HARRIS OIL & GAS

McPHERSON COLLEGE #2-27

DST # 1

MIN	WATER	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
				40	86	0.375	33
				50	60	0.375	27.6
				60	26	0.375	18.1

Remarks: GAS TO SURFACE IN 36 MINUTES-GAS WILL BURN



GAS VOLUME REPORT

Harris Oil & Gas
OPERATOR

McPherson College 42-27

21
DST NO

2nd open.

[illegible]

Remarks: GTS in 36min.
Gas will burn.

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FLUID SAMPLER DATA

Ticket No. 6089 Date 9-25-93
Company Name Harris Oil & Gas
Lease McPherson College #2-27 Test No. #1
County Stanton KS Sec. 27 Twp. 29 Rng. 39

SAMPLER RECOVERY

Gas 8.3 cubic ft. ML
Oil 2300 ML
Mud 200 ML
Water 500 ML
Other _____ ML
Pressure 525 PSI
Total 4000 ML

SAMPLER ANALYSIS

Resistivity .21 ohms @ 56 F
Chlorides 44000 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 2600 ppm.
Resistivity 2.1 ohms @ 76 F
Viscosity 60
Mud Weight 9.2
Filtrate 8.0
Other _____

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity .21 ohms @ 56 F
Chlorides 44000 ppm.

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Test Ticket

No 6089

Well Name & No.	McPherson College #2-27		Test No.	#1		Date	9-25-93	
Company	Harris Oil & Gas		Zone Tested	St Louis				
Address	410 17th Street, Suite 2310 Denver Co. 80202		Elevation	3212 (KB)				
Co. Rep./Geo.	Harold Frawi		Cont.	Trans Pac Drilling #2		Est. Ft. of Pay	4'	
Location: Sec.	27	Twp.	29	Rge.	39	Co.	Stanton	State KS
No. of Copies	18	Distribution Sheet	X	Yes	No	Turnkey	Yes	X
							No	Evaluation

Interval Tested	5700-5735		Drill Pipe Size	4.5 x-Hole	
Anchor Length	35'		Top Choke — 1"	Bottom Choke — 3/4"	
Top Packer Depth	5695 - 5700		Hole Size — 77/8"	Rubber Size — 63/4"	
Bottom Packer Depth	5735		Wt. Pipe I.D. — 2.7 Ft. Run	-	
Total Depth	5825		Drill Collar — 2.25 Ft. Run	617'	
Mud Wt.	9.2	lb/gal.	Viscosity	60	Filtrate
					8.0

Tool Open @ 8:10 pm Initial Blow 1 1/2 blow-built to bottom of bucket in 5 min.
 IST- Bled off blow-weak blow-built to bottom of bucket 20 min.
 Final Blow 2 in blow-Built to bottom of bucket 4 min. { GTS in 36 min }
 FSI- Bled off blow-weak blow-built to bottom of bucket 15 min.

Recovery — Total Feet 1183' Feet of Gas in Pipe Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. 472'	Feet Of	CGO	50 %gas	50 %oil	%water %mud
Rec. 538'	Feet Of	GEMCO	25 %gas	60 %oil	%water 15 %mud
Rec. 173'	Feet Of	muddy salt water	%gas	%oil	%water %mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 131 °F Gravity 44 °API @ 70 °F Corrected Gravity 43.2 °API

RW 121 @ 56 °F Chlorides 44000 ppm Recovery Chlorides 2300 ppm System

(A) Initial Hydrostatic Mud 2812 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 95 PSI @ (depth) 5705 w/Clock No. 25813

(C) First Final Flow Pressure 190 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-In Pressure 1511 PSI @ (depth) 5727 w/Clock No. 25814

(E) Second Initial Flow Pressure 283 PSI AK1 Recorder No. 13615 Range 4575

(F) Second Final Flow Pressure 416 PSI @ (depth) 5768 w/Clock No. 3942

(G) Final Shut-In Pressure 1511 PSI Initial Opening 30 Test X 700

(H) Final Hydrostatic Mud 2773 PSI Initial Shut-In 60 Jars X 200

TRIOBITE 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 X 250

Circ. Sub

Sampler X 200

Extra Packer X 150

Other Hockwall X 300

TOTAL PRICE \$ 1850.00

Approved By _____

Our Representative Tom Horacek