

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DODY #1-36 Test No. 1 Date 12/15/93
Company HUGOTON EXPLORATION Zone MARMATON
Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2857
Co. Rep./Geo. DON PATE Cont. MURFIN RIG #21 Est. Ft. of Pay KS
Location: Sec. 36 Twp. 28S Rge. 31W Co. HASKELL State KS

Interval Tested 4757-4825 Drill Pipe Size 4.5" XH
Anchor Length 68 Wt. Pipe I.D. - 2.7 Ft. Run 491
Top Packer Depth 4752 Drill Collar - 2.25 Ft. Run 9.1
Bottom Packer Depth 4757 Mud Wt. 46 lb/Gal. 8.9
Total Depth 4825 Viscosity 46 Filtrate 8.9

Tool Open @ 8:35 PM Initial Blow SURFACE BLOW BUILT TO 1"
NO BLOW BACK
Final Blow NO BLOW

Recovery - Total Feet 70 Flush Tool? NO

Rec. 70 Feet of DRILLING MUD WITH SPOTS OF OIL
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2379.3 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 57.5 PSI @ (depth) 4763 w / Clock No. 25813

(C) First Final Flow Pressure 65.3 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1323.2 PSI @ (depth) 4822 w / Clock No. 3942

(E) Second Initial Flow Pressure 122.2 PSI AK1 Recorder No. _____ Range _____

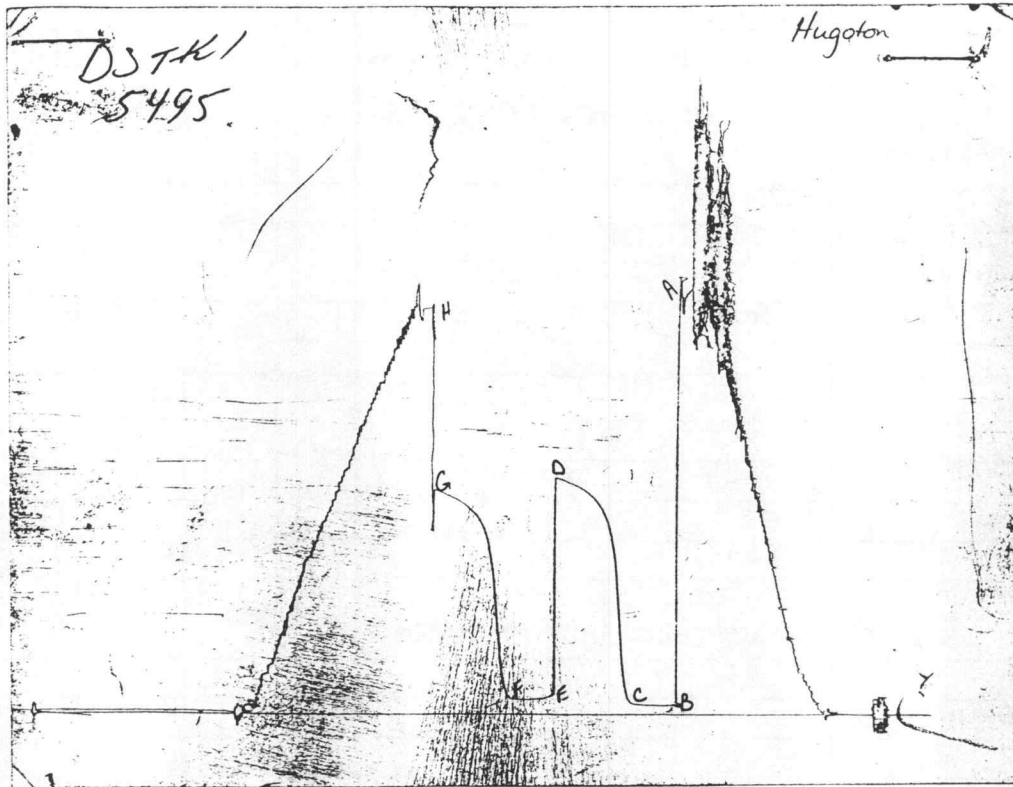
(F) Second Final Flow Pressure 94.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1253.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2274.2 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2375	2379.3
(B) FIRST INITIAL FLOW PRESSURE	56	57.5
(C) FIRST FINAL FLOW PRESSURE	56	65.3
(D) INITIAL CLOSED-IN PRESSURE	1320	1323.2
(E) SECOND INITIAL FLOW PRESSURE	89	122.2
(F) SECOND FINAL FLOW PRESSURE	89	94.4
(G) FINAL CLOSED-IN PRESSURE	1246	1253.5
(H) FINAL HYDROSTATIC MUD	2259	2274.2

FLUID SAMPLER DATA

Ticket No.: 6631 Date: 12/15/93
 Company: HUGOTON EXPLORATION
 Lease: DODY #1-36 Test No.: 1
 County: HASKELL Sec.: 36 Twp.: 28S Rng.: 31W

SAMPLER RECOVERY

Gas
 Oil spots
 Mud 4000
 Water
 Other
 Pressure 70
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3500
 Resistivity 1.5 ohms@ 74 F
 Viscosity 46
 Mud Wt. 9.1
 Filtrate 8.9
 Other

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

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FLUID SAMPLER DATA

Ticket No. 6631 Date 12-15-93
Company Name Hugoton Exp.
Lease Dody #1-36 Test No. 41
County Haskell Ks. Sec. 36 Twp. 28 Rng. 31

SAMPLER RECOVERY

Gas _____ ML
Oil spots oil ML
Mud 4000 ML
Water _____ ML
Other ~~7~~ ML
Pressure 70 PSI
Total 4000 ML

SAMPLER ANALYSIS

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

PIT MUD ANALYSIS

Chlorides 3500 ppm.
Resistivity 1.5 ohms @ 74 F
Viscosity 46
Mud Weight 9.1
Filtrate 8.9
Other _____

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.

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Test Ticket

No 6631

Well Name & No. Dody #1-36 Test No. 41 Date 12-15-93
 Company Hugoton Exploration Zone Tested Marmaton
 Address 229 E. William, Suite 500 Wichita Ks. 67202 Elevation 2857 K81
 Co. Rep./Geo. Don Pate Cont. Murdin Drlg #21 Est. Ft. of Pay _____
 Location: Sec. 36 Twp. 28 Rge. 31 Co. Haskell State Ks.
 No. of Copies 5? Distribution Sheet _____ Yes ☒ No ☐ Turnkey _____ Yes ☒ No ☐ Evaluation _____

Interval Tested 4757 - 4825 Drill Pipe Size 4.5 x-Hole
 Anchor Length 68 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4752 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4757 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4825 Drill Collar — 2.25 Ft. Run 491'
 Mud Wt. 9.1 lb / gal. Viscosity 46 Filtrate 8.9
 Tool Open @ 8:35 pm Initial Blow Surface blow- built to lin.
No blow back
 Final Blow No blow

Recovery — Total Feet 70' Feet of Gas in Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>70'</u>	Feet Of <u>Drlg mud w/spots oil</u>	%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
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2375 PSI AK1 Recorder No. 5495 Range 4200
 (B) First Initial Flow Pressure 56 PSI @ (depth) 4763 w/Clock No. 25813
 (C) First Final Flow Pressure 56 PSI AK1 Recorder No. 11038 Range 5075
 (D) Initial Shut-In Pressure 1320 PSI @ (depth) 4822 w/Clock No. 3942
 (E) Second Initial Flow Pressure 89 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 89 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1246 PSI Initial Opening 30 Test X 6000
 (H) Final Hydrostatic Mud 2259 PSI Initial Shut-In 60 Jars _____
 Final Flow 30 Safety Joint X 50.00
 Final Shut-In 60 Straddle _____
 Circ. Sub _____
 Sampler X 20000
 Extra Packer _____
 Other _____

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 Don Pate
 Our Representative Tom Hurecek

TOTAL PRICE \$ 850.00

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name DODY #1-36 Test No. 2 Date 12/17/93
Company HUGOTON EXPLORATION Zone MISS
Address 229 E WILLIAM #500 WICHITA KS 67202 Elevation 2857
Co. Rep./Geo. DON PATE Cont. MURFIN RIG #21 Est. Ft. of Pay _____
Location: Sec. 36 Twp. 28S Rge. 31W Co. HASKELL State KS

Interval Tested 5405-5435 Drill Pipe Size 4.5" XH
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5400 Drill Collar - 2.25 Ft. Run 518
Bottom Packer Depth 5405 Mud Wt. _____ lb/Gal.
Total Depth 5435 Viscosity 44 Filtrate 9

Tool Open @ 10:45 Initial Blow 1/4" BLOW BUILT TO 1" / DECREASED TO 3/4"

Final Blow NO BLOW

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of SLTLY OIL CUT WTRY MUD-5%OIL/10%WTR/85%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.18 @ _____ °F Chlorides 38000 ppm Recovery Chlorides 4600 ppm System

(A) Initial Hydrostatic Mud 2684.9 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 55.0 PSI @ (depth) 5408 w / Clock No. 25813

(C) First Final Flow Pressure 50.9 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1233.9 PSI @ (depth) 5432 w / Clock No. 25814

(E) Second Initial Flow Pressure 75.4 PSI AK1 Recorder No. _____ Range _____

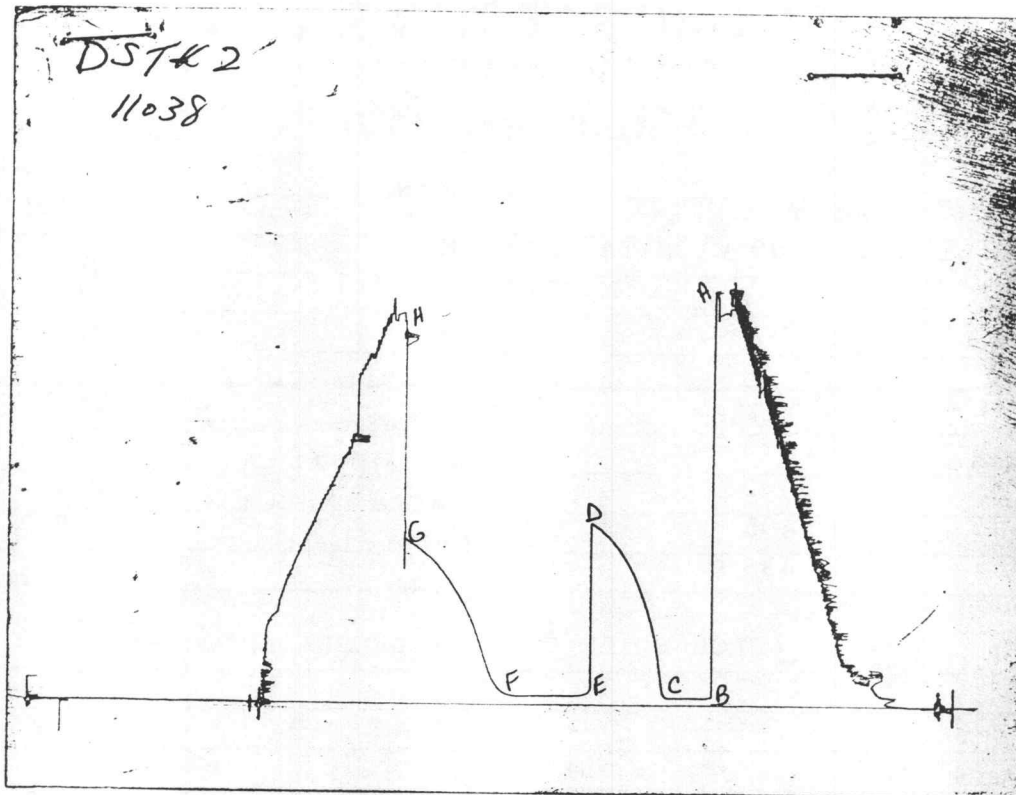
(F) Second Final Flow Pressure 63.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1129.3 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2658.2 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2668	2684.9
(B) FIRST INITIAL FLOW PRESSURE	45	55
(C) FIRST FINAL FLOW PRESSURE	45	50.9
(D) INITIAL CLOSED-IN PRESSURE	1224	1233.9
(E) SECOND INITIAL FLOW PRESSURE	67	75.4
(F) SECOND FINAL FLOW PRESSURE	56	63.2
(G) FINAL CLOSED-IN PRESSURE	1108	1129.3
(H) FINAL HYDROSTATIC MUD	2647	2658.2

FLUID SAMPLER DATA

Ticket No.: 6632 Date: 12/17/93
Company: HUGOTON EXPLORATION
Lease: DODY #1-36 Test No.: 2
County: HASKELL Sec.: 36 Twp.: 28S Rng.: 31W

SAMPLER RECOVERY

Gas
Oil 25
Mud 3950
Water 25
Other
Pressure 50
TOTAL 4000

PIT MUD ANALYSIS

Chlorides 5000
Resistivity 1.3 ohms@ 75 F
Viscosity 44
Mud Wt. 9.1
Filtrate 9
Other

SAMPLER ANALYSIS

Resistivity 0.18 ohms@ 70 F
Chlorides 38000 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

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FLUID SAMPLER DATA

Ticket No. 6632 Date 12-17-93
Company Name Hugeton Exploration
Lease Dady # 1-36 Test No. 42
County Haskell Ks. Sec. 36 Twp. 28 Rng. 31

SAMPLER RECOVERY

Gas _____ ML
Oil 25 ML
Mud 3950 ML
Water 25 ML
Other _____ ML
Pressure 50 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 5000 ppm.
Resistivity 1.3 ohms @ 75 F
Viscosity 44
Mud Weight 9.1
Filtrate 9.0
Other _____

SAMPLER ANALYSIS

Resistivity .18 ohms @ 70 F
Chlorides 38000 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.

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Test Ticket

No 6632

Well Name & No. Dody #1-36 Test No. #2 Date 12-17-93
 Company Hugoton Exploration Zone Tested Miss.
 Address 229 E. William, Suite 500 Wichita, ks. 67202 Elevation 2857 (KB)
 Co. Rep./Geo. Don Pate Cont. Murfin Drilling #21 Est. Ft. of Pay _____
 Location: Sec. 36 Twp. 28 Rge. 31 Co. Haskell State KS.
 No. of Copies 5? Distribution Sheet _____ Yes X No _____ Turnkey _____ Yes X No _____ Evaluation _____

Interval Tested 5405-5435 Drill Pipe Size 4.5 x 140
 Anchor Length 30' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5400 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5405 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5435 Drill Collar — 2.25 Ft. Run 518'
 Mud Wt. 9.1 lb/gal. Viscosity 44 Filtrate 9.0
 Tool Open @ 10:45 Initial Blow 1/4 blow built to lin. decreased to 3/4 in.

Final Blow No blow

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>60'</u>		<u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>60'</u> Feet Of <u>50 cwm</u>	%gas <u>5</u> %oil <u>10</u> %water <u>85</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1.8 @ 70 °F Chlorides 38000 ppm Recovery Chlorides 4600 ppm System
 (A) Initial Hydrostatic Mud 2668 PSI AK1 Recorder No. 5495 Range 4200
 (B) First Initial Flow Pressure 45 PSI @ (depth) 5408 w/Clock No. 25813
 (C) First Final Flow Pressure 45 PSI AK1 Recorder No. 11038 Range 5075
 (D) Initial Shut-In Pressure 1224 PSI @ (depth) 5432 w/Clock No. 25814
 (E) Second Initial Flow Pressure 67 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 56 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1108 PSI Initial Opening 30 Test X 700
 (H) Final Hydrostatic Mud 2647 PSI Initial Shut-In 60 Jars X 200

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Approved By Don Pate
 Our Representative Tom Horacek

Final Flow 45 Safety Joint X 50
 Final Shut-In 90 Straddle _____
 Circ. Sub _____
 Sampler X 200
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 1150.00