

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601



Drill-Stem Test Data

Well Name DuVALL #1-2 Test No. 1 Date 11/7/92
Company HOWARD WALSH JR Zone WARSAW
Address 3532 NAT'L DRIVE NORMAN OK 73069 Elevation 3831
Co. Rep./Geo. DALE REID Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay _____
Location: Sec. 2 Twp. 25S Rge. 45W Co. PROWERS State CO

Interval Tested 5573-5635
Anchor Length 62
Top Packer Depth 5568
Bottom Packer Depth 5573
Total Depth 5635

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 480
Mud Wt. 9 lb/Gal.
Viscosity 57 Filtrate 8

Tool Open @ 10:30 AM Initial Blow WEAK BLOW - BUILT TO 1.5"

ISI: BLED OFF BLOW-NO BLOW BACK

Final Blow NO BLOW

Recovery - Total Feet 90

Flush Tool? NO

Rec. 90 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 300 ppm System

(A) Initial Hydrostatic Mud 2815.6 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 121.3 PSI @ (depth) 5576 w / Clock No. 27594

(C) First Final Flow Pressure 121.3 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1177.6 PSI @ (depth) 5632 w / Clock No. 25814

(E) Second Initial Flow Pressure 144.6 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 144.6 PSI @ (depth) _____ w / Clock No. _____

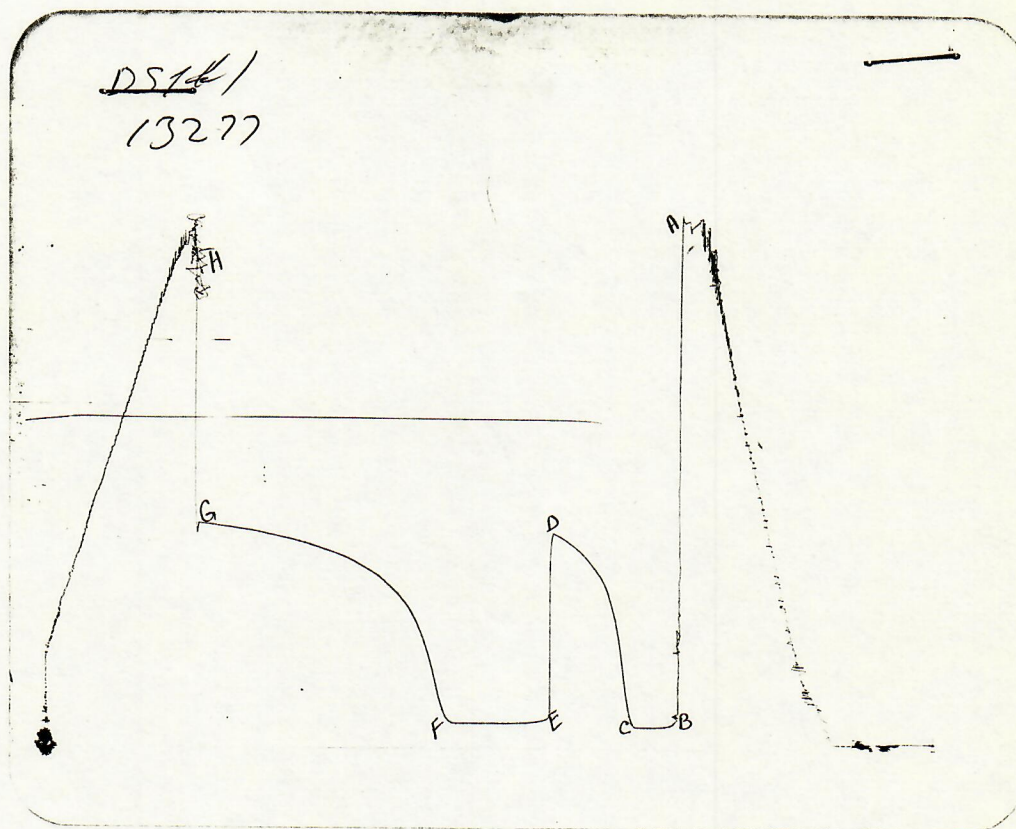
(G) Final Shut-in Pressure 1198.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2784.6 PSI Initial Shut-in 60 Final Shut-in 180

Our Representative TOM HORACEK

BEST IMAGE
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CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2810	2815.6
(B) FIRST INITIAL FLOW PRESSURE	118	121.3
(C) FIRST FINAL FLOW PRESSURE	118	121.3
(D) INITIAL CLOSED-IN PRESSURE	1172	1177.6
(E) SECOND INITIAL FLOW PRESSURE	140	144.6
(F) SECOND FINAL FLOW PRESSURE	140	144.6
(G) FINAL CLOSED-IN PRESSURE	1193	1198.7
(H) FINAL HYDROSTATIC MUD	2780	2784.6

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FLUID SAMPLER DATA

Ticket No.: 4844 Date: 11/7/92

Company: HOWARD WALSH JR

Lease: DuVALL #1-2 Test No.: 1

County: PROWERS Sec.: 2 Twp.: 25S Rng.: 45W

SAMPLER RECOVERY

Gas

Oil

Mud 3200

Water

Other

Pressure 1180

TOTAL 3200

PIT MUD ANALYSIS

Chlorides

Resistivity ohms@ F

Viscosity 57

Mud Wt. 9

Filtrate 8

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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TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4844

Well Name & No. <u>DuVal #1-2</u>	Test No. <u>1</u>	Date <u>11-7-92</u>
Company <u>Howard Walsh JR.</u>	Zone Tested <u>Warsaw</u>	
Address <u>3532 National Drive - Norman, OK 73069</u>	Elevation <u>3831 (KB)</u>	
Co. Rep./Geo <u>Dale Reid</u>	Cont. <u>Murfin Delg. #22</u>	Est. Ft. of Pay _____
Location: Sec. <u>2</u>	Twp. <u>25</u>	Rge. <u>45</u>
Co. <u>Pawnee</u>		State <u>Colorado</u>
No. of Copies <u>5</u>	Distribution Sheet _____	Yes <u>X</u> No _____ Turnkey _____
		Yes _____ No _____ Evaluation _____

Interval Tested <u>5573-5635</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>62'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5568</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>5573</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5635</u>	Drill Collar — 2.25 Ft. Run <u>480'</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>57</u> Filtrate <u>8.0</u>
Tool Open @ <u>10:30 AM</u> Initial Blow <u>weak blow - built to 1 1/2 in.</u>	
<u>ISI - Bled off blow - no blow back</u>	
Final Blow <u>NO blow</u>	

Recovery — Total Feet <u>90'</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>90'</u> Feet Of <u>Drly mud</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>128</u> °F	Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____	ppm Recovery _____	Chlorides <u>300</u>	ppm System _____
(A) Initial Hydrostatic Mud <u>2810</u>	PSI	AK1 Recorder No. <u>13277</u>	Range <u>4125</u>	
(B) First Initial Flow Pressure <u>118</u>	PSI	@ (depth) <u>5576</u>	w/Clock No. <u>27594</u>	
(C) First Final Flow Pressure <u>118</u>	PSI	AK1 Recorder No. <u>11038</u>	Range <u>5075</u>	
(D) Initial Shut-In Pressure <u>1172</u>	PSI	@ (depth) <u>5632</u>	w/Clock No. <u>25814</u>	
(E) Second Initial Flow Pressure <u>140</u>	PSI	AK1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>140</u>	PSI	@ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>1193</u>	PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>650.00</u>	
(H) Final Hydrostatic Mud <u>2780</u>	PSI	Initial Shut-In <u>60</u>	Jars <u>X</u> <u>200.00</u>	

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Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50.00</u>
Final Shut-In <u>180</u>	Straddle _____

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Approved By Dale Reid

Our Representative Tom Horacek

Circ. Sub _____
Sampler <u>X</u> <u>250.00</u>
Extra Packer _____
Other _____
TOTAL PRICE \$ <u>1150</u>

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DuVALL #1-2 Test No. 2 Date 11/8/92
Company HOWARD WALSH JR
Address 3532 NAT'L DRIVE NORMAN OK 73069 Zone OSAGE
Co. Rep./Geo. DALE REID Cont. MURFIN DRLG RIG #22 Elevation 3831
Location: Sec. 2 Twp. 25S Rge. 45W Co. PROWERS State CO Est. Ft. of Pay _____

Interval Tested 5635-5675
Anchor Length 40
Top Packer Depth 5630
Bottom Packer Depth 5635
Total Depth 5675

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 511
Mud Wt. 9.1 lb/Gal.
Viscosity 63 Filtrate 8.8

Tool Open @ 11:50 AM Initial Blow 1/2" BLOW - BUILT TO BOTTOM OF BUCKET IN 6 MINUTES

ISI: BLED OFF BLOW-WEAK BLOW - BUILT TO 1"

Final Blow 1" BLOW - BUILT TO BOTTOM OF BUCKET IN 8 MINUTES

FSI: BLED OFF BLOW - NO BLOW BACK

Recovery - Total Feet 1735

Flush Tool? NO

Rec. 30 Feet of GASSY CUT WATERY MUD
Rec. 1705 Feet of HVY GASSY CUT SALT WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 1 @ 70 °F Chlorides 5900 ppm Recovery Chlorides 400 ppm System

(A) Initial Hydrostatic Mud 2815.6 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 177.6 PSI @ (depth) 5639 w / Clock No. 27594

(C) First Final Flow Pressure 468.9 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1310.2 PSI @ (depth) 5672 w / Clock No. 3942

(E) Second Initial Flow Pressure 550.6 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 798.4 PSI @ (depth) _____ w / Clock No. _____

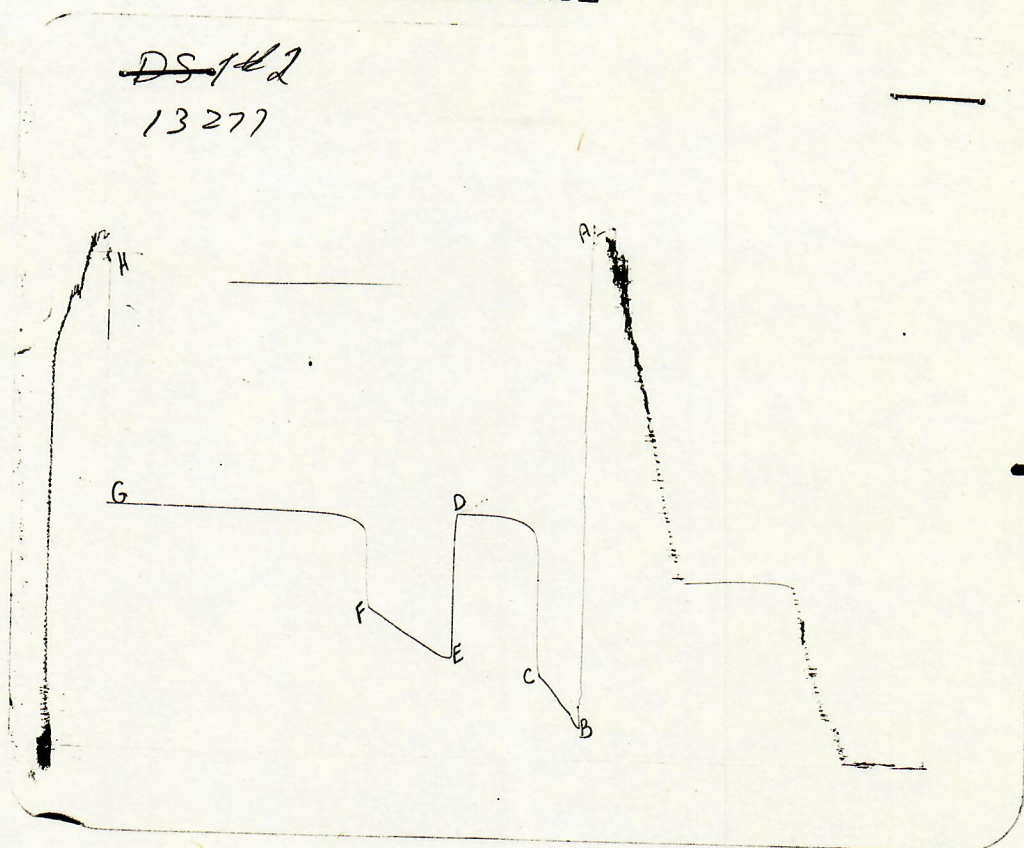
(G) Final Shut-in Pressure 1310.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2784.6 PSI Initial Shut-in 60 Final Shut-in 180

Our Representative TOM HORACEK

BEST IMAGE
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CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2810	2815.6
(B) FIRST INITIAL FLOW PRESSURE	172	177.6
(C) FIRST FINAL FLOW PRESSURE	464	468.9
(D) INITIAL CLOSED-IN PRESSURE	1305	1310.2
(E) SECOND INITIAL FLOW PRESSURE	548	550.6
(F) SECOND FINAL FLOW PRESSURE	794	798.4
(G) FINAL CLOSED-IN PRESSURE	1305	1310.2
(H) FINAL HYDROSTATIC MUD	2780	2784.6

BEST IMAGE
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FLUID SAMPLER DATA

Ticket No.: 4845 Date: 11/8/92
 Company: HOWARD WALSH JR
 Lease: DuVALL #1-2 Test No.: 2
 County: PROWERS Sec.: 2 Twp.: 25S Rng.: 45W

SAMPLER RECOVERY

Gas 200
 Oil
 Mud
 Water 3300
 Other 4 cu ft gas
 Pressure 1290
 TOTAL 3500

SAMPLER ANALYSIS

Resistivity 1 ohms@ 70 F
 Chlorides 5900 ppm.
 Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides
 Resistivity ohms@ F
 Viscosity 63
 Mud Wt. 9.1
 Filtrate 8.8
 Other

PIPE RECOVERY

TOP

Resistivity 1.1 ohms@ 70 F
 Chlorides 5200 ppm

MIDDLE

Resistivity 1.1 ohms@ 70 F
 Chlorides 5200 ppm

BOTTOM

Resistivity 1 ohms@ 70 F
 Chlorides 5900 ppm

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TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4845

Well Name & No. <u>DuVall # 1-2</u>	Test No. <u># 2</u>	Date <u>11-8-92</u>
Company <u>Howard Walsh JR.</u>	Zone Tested <u>Osage</u>	
Address <u>3532 Nat. Drive Norman Ok. 73069</u>	Elevation <u>3831 (KB)</u>	
Co. Rep./Geo. <u>Dale Reid</u>	Cont. <u>Murkin Drly. #22</u>	Est. Ft. of Pay
Location: Sec. <u>2</u>	Twp. <u>25</u>	Rge. <u>45</u>
Co. <u>Powers</u>	state <u>Colorado</u>	
No. of Copies	Distribution Sheet	Yes <u>X</u> No Turnkey Yes No Evaluation

Interval Tested <u>5635-5675</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>40'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>5630</u>	Hole Size — 77/8" Rubber Size — 63/4"
Bottom Packer Depth <u>5635</u>	Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth <u>5675</u>	Drill Collar — 2.25 Ft. Run <u>511'</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>63</u> Filtrate <u>8.8</u>
Tool Open @ <u>11:50 AM</u> Initial Blow <u>1/2 blow - built to bottom of bucket in 6 min.</u>	
<u>IST - Bled off blow - weak blow - built to lin.</u>	
Final Blow <u>lin blow - built to bottom of bucket 8 min.</u>	
<u>FST - Bled off blow - no blow back</u>	
Recovery — Total Feet <u>1735'</u>	Feet of Gas in Pipe
	Flush Tool? <u>NO</u>

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>30</u>	Feet Of <u>GCWM</u>	%gas	%oil	%water	%mud
Rec. <u>1705</u>	Feet Of <u>HGCSW</u>	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT <u>128</u> °F	Gravity	°API @	°F	Corrected Gravity	°API
RW <u>1.</u> @ <u>70</u> °F	Chlorides <u>5900</u> ppm	Recovery	Chlorides <u>400</u> ppm	System	
(A) Initial Hydrostatic Mud <u>2810</u>	PSI	AK1 Recorder No. <u>13277</u>	Range <u>4125</u>		
(B) First Initial Flow Pressure <u>172</u>	PSI	@ (depth) <u>5639</u>	w/Clock No. <u>27594</u>		
(C) First Final Flow Pressure <u>464</u>	PSI	AK1 Recorder No. <u>11038</u>	Range <u>5075</u>		
(D) Initial Shut-In Pressure <u>1305</u>	PSI	@ (depth) <u>5672</u>	w/Clock No. <u>3942</u>		
(E) Second Initial Flow Pressure <u>548</u>	PSI	AK1 Recorder No.	Range		
(F) Second Final Flow Pressure <u>794</u>	PSI	@ (depth)	w/Clock No.		
(G) Final Shut-In Pressure <u>1305</u>	PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>650.00</u>		
(H) Final Hydrostatic Mud <u>2780</u>	PSI	Initial Shut-In <u>60</u>	Jars <u>X</u> <u>200.00</u>		

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Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50.00</u>
Final Shut-In <u>180</u>	Straddle
	Circ. Sub
	Sampler <u>X</u> <u>250.00</u>
	Extra Packer
	Other

Approved By Dale Reid
 Our Representative Tom Horacek

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DuVALL #1-2 Test No. 3 Date 11/9/92
Company HOWARD WALSH JR
Address 3532 NAT'L DRIVE NORMAN OK 73069 Zone OSAGE
Co. Rep./Geo. DALE REID Cont. MURFIN DRLG RIG #22 Elevation 3831
Location: Sec. 2 Twp. 25S Rge. 45W Co. PROWERS Est. Ft. of Pay _____ State CO

Interval Tested 5675-5730
Anchor Length 55
Top Packer Depth 5670
Bottom Packer Depth 5675
Total Depth 5730

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 480
Mud Wt. 9.1 lb/Gal.
Viscosity 60 Filtrate 8.8

Tool Open @ 3:40 PM Initial Blow WEAK BLOW - BUILT TO 3.5"

ISI: BLED OFF BLOW-NO BLOW BACK

Final Blow NO BLOW

Recovery - Total Feet 240

Flush Tool? NO

Rec. 240 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 129 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 400 ppm System

(A) Initial Hydrostatic Mud 2820.7 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 121.3 PSI @ (depth) 5679 w / Clock No. 27594

(C) First Final Flow Pressure 121.3 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1330.6 PSI @ (depth) 5727 w / Clock No. 3942

(E) Second Initial Flow Pressure 155.4 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 185.7 PSI @ (depth) _____ w / Clock No. _____

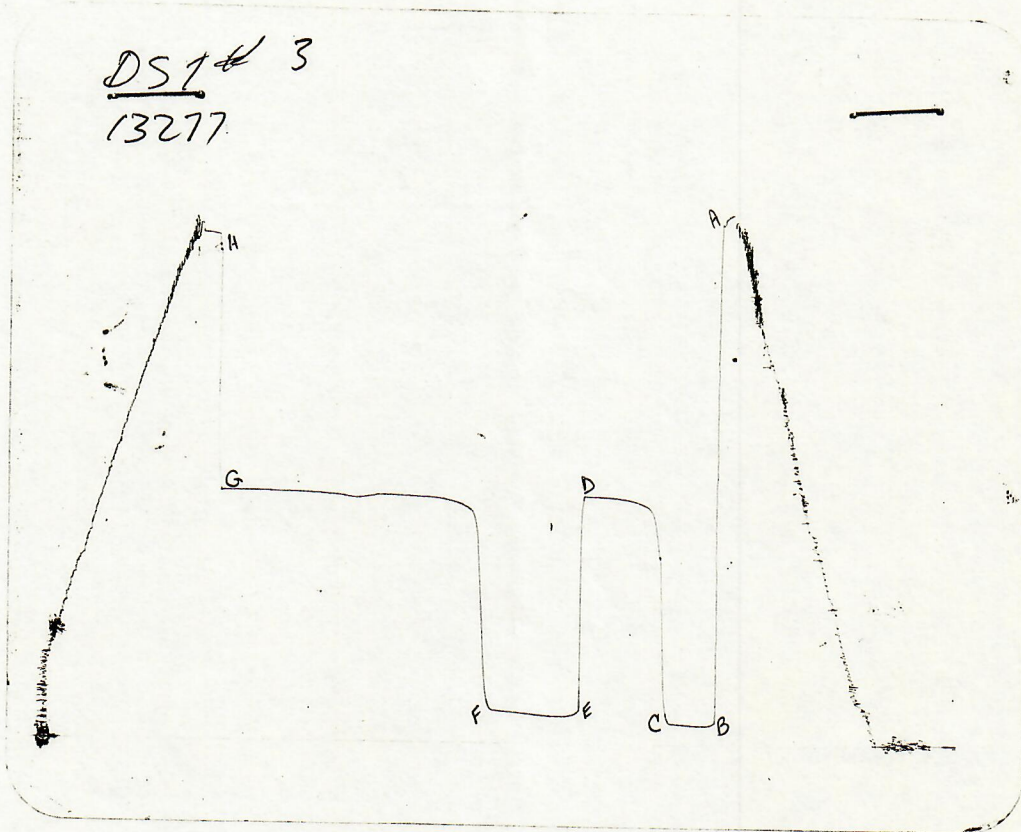
(G) Final Shut-in Pressure 1344.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2784.6 PSI Initial Shut-in 60 Final Shut-in 180

Our Representative TOM HORACEK

BEST IMAGE
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CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2820	2820.7
(B) FIRST INITIAL FLOW PRESSURE	118	121.3
(C) FIRST FINAL FLOW PRESSURE	118	121.3
(D) INITIAL CLOSED-IN PRESSURE	1326	1330.6
(E) SECOND INITIAL FLOW PRESSURE	151	155.4
(F) SECOND FINAL FLOW PRESSURE	183	185.7
(G) FINAL CLOSED-IN PRESSURE	1346	1344.7
(H) FINAL HYDROSTATIC MUD	2780	2784.6

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FLUID SAMPLER DATA

Ticket No.: 4846

Date: 11/9/92

Company: HOWARD WALSH JR

Lease: DuVALL #1-2

Test No.: 3

County: PROWERS

Sec.: 2

Twp.: 25S

Rng.: 45W

SAMPLER RECOVERY

Gas

Oil

Mud 3500

Water

Other

Pressure 1150

TOTAL 3500

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides

Resistivity ohms@ F

Viscosity 60

Mud Wt. 9.1

Filtrate 8.8

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

BEST IMAGE
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TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4846

Well Name & No. Duval 1-2 Test No. #3 Date 11-9-92
 Company Howard Walsh JR. Zone Tested Osage
 Address 3532 Nat. Drive Norman OK 73069 Elevation 3831
 Co. Rep./Geo. Dale Reid Cont. Murkin Dlg. #22 Est. Ft. of Pay _____
 Location: Sec. 2 Twp. 25 Rge. 45 Co. Powers State Colorado
 No. of Copies _____ Distribution Sheet _____ Yes X No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 5675-5730 Drill Pipe Size 4.5 x-Hole
 Anchor Length 55' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5670 Hole Size — 77/8" _____ Rubber Size — 63/4" _____
 Bottom Packer Depth 5675 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5730 Drill Collar — 2.25 Ft. Run 480"
 Mud Wt. 9.1 lb/gal. Viscosity 60 Filtrate 8.8
 Tool Open @ 3:40 pm. Initial Blow weak blow - b.u. 14 to 3 1/2 in.
ISI - Bled off blow - No blow back
 Final Blow No blow

Recovery — Total Feet 240' Feet of Gas in Pipe _____ Flush Tool? NO

Rec. _____	Feet Of _____	% gas	% Oil	% water	% mud
Rec. _____	Feet Of _____	% gas	% Oil	% water	% mud
Rec. <u>240'</u>	Feet Of <u>Drlg mud</u>	% gas	% Oil	% water	% mud
Rec. _____	Feet Of _____	% gas	% Oil	% water	% mud
Rec. _____	Feet Of _____	% gas	% Oil	% water	% mud

BHT 129 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 400 ppm System
 (A) Initial Hydrostatic Mud 2820 PSI Ak1 Recorder No. 13277 Range 4125
 (B) First Initial Flow Pressure 118 PSI @ (depth) 5679 w/Clock No. 27594
 (C) First Final Flow Pressure 118 PSI AK1 Recorder No. 11038 Range 5075
 (D) Initial Shut-In Pressure 1326 PSI @ (depth) 5727 w/Clock No. 3942
 (E) Second Initial Flow Pressure 151 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 183 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1346 PSI Initial Opening 30 Test X
 (H) Final Hydrostatic Mud 2780 PSI Initial Shut-In 60 Jars X

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Final Flow 60 Safety Joint X
 Final Shut-In 180 Straddle _____
 Circ. Sub _____
 Sampler X
 Extra Packer _____
 Other _____

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Approved By Dale Reid

Our Representative Tom Horecek