

SECTION III - ENGINEERING SUMMARY

a) Report of Drillstem Tests (See service reports in attached envelope.)

DST #1 4,645' - 4,758' - Straddle Test

Zone Johnson Creek

Remarks Missrun - packer seat would not hold

DST #2 4,665' - 4,758' - Straddle Test

Zone Johnson Creek

Remarks Missrun - packer seat would not hold

DST #3 4,680' - 4,758' - Straddle Test

Zone Johnson Creek

Times Preflow 10 mins., V.O. 90 mins., ISI 60 mins., FSI 150 mins.  
Good initial puff of air. Gas to surface in 11 mins., TSTM,  
decreasing and dead in 60 mins.

Recovered 4,400' of gassy muddy fresh water

<u>Pressures</u>	IHP 2337	FHP 2330	Preflow 203
	ISIP 1975	FSIP 1983	
	IFP 1313	FFP 1970	

Remarks BHT 101°F  
Test satisfactory

DST #4 2,192' - 2,202' - Straddle Test

Zone Cretaceous Sandstone

Times Preflow 5 Mins., V.O. 90 mins., ISI 60 mins., FSI 150 mins.  
Good air blow on preflow. Good air blow on V.O. decreasing  
to faint at the end of flow. No G.T.S.

Recovered 1,650' muddy fresh water, with trace of gas

<u>Pressures</u>	IHP 1067	FHP 1072
	ISIP 880	FSIP 880
	IFP 199	FFP 747

Remarks BHT 74°F  
Test satisfactory

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ISIP 880 FSIP 880  
IFP 199 FFP 747

Remarks BHT 74°F  
Test satisfactory

b) Casing Record

Conductor Pipe

25' of 23" O.D., 18½" I.D., ½" wall, insulated concentric conductor pipe with 3/4" O.D. cooling coils. 26' of 19" O.D., ½" wall conductor pipe set at 59' below ground or 79' K.B.

Conductor pipe cemented with 220 sax of permafrost (cold set) B.J. cement.

Surface Casing

Ran 26 joints (841.74') of 9-5/8", 36#, J-55, 8rd, new, seamless, ST&C, Rge. 2 casing landed at 858.66' K.B.

Cemented casing with 433 sax of type I cement plus 3% CaCl<sub>2</sub>. Cement in place at 05:35 February 26, 1972.

Circulated approximately 30 sax of excess cement. No intermediate and no production casing strings were run.

c) Bit Record

See attached Bit Record sheet.

d) Mud Report

Surface Hole

The 12½" surface hole was drilled from 79' K.B. to 861' using a water-gel-Rapidril mud as the drilling fluid. The following materials were used on surface.

Gel	143 sax
Rapidril	3 sax
Caustic	3 sax
Sawdust	35 sax

Main Hole

The main hole was drilled using a gel-water-Rapidril system to 4,916' T.D. The following materials were used on the main hole.

Gel	340 sax
Sawdust	105 sax (rig floor only)
Caustic	52 sax
Rapidril	105 sax
Soda Ash	2 sax
CMC	15 sax



e) Deviation Record

70 - 1-1/4	505 - 1/4	1210 - 1/2	3180 - 1	3940 - 2-1/4	4696 - 3
107 - 1-1/4	600 - 0	1701 - 1	3650 - 1/3/4	3985 - 2-3/4	4758 - 3
170 - 3/4	690 - 0	1891 - 1	3785 - 2-1/2	4099 - 2-1/2	4790 - 3-3/4
230 - 1/2	720 - 1/4	2275 - 1-3/4	3810 - 2-1/2	4215 - 1-7/8	
320 - 1/2	860 - 1/4	2403 - 1-1/8	3880 - 2-1/4	4303 - 1-1/2	
415 - 1/2	870 - 1/2	2775 - 1	3911 - 2	4456 - 1-3/4	

f) Abandonment Plugs

Plug #1 (4,916'-4,866')	35 sax Type I Portland Cement	
Plug #2 (4,810'-4,640')	100 sax Type I Portland Cement	Felt @ 4620'.
Plug #3 (2,950'-2,850')	80 sax Type I Portland Cement plus 2% CaCl <sub>2</sub>	Felt @ 2815'
Plug #4 (2,330'-2,130')	180 sax Type I Portland Cement plus 2% CaCl <sub>2</sub>	Felt @ 2100'
Plug #5 ( 910'- 810')	70 sax Type I Portland Cement plus 3% CaCl <sub>2</sub>	Felt @ 806'
Surface Plug	5 sax Type I Portland Cement	

g) Lost Circulation Zones

While drilling surface hole at 600' circulation was lost. Approximately 166 barrels of mud were lost in the Eagle Plain formation. Circulation was regained by mixing gel, Rapidril and sawdust.

h) Report of Blowouts

No kicks or blowouts on this well.



SECTION IV - LOGS

The following Schlumberger logs were run on March 24-25, 1972.

Dual Induction Laterolog (4,902'-858')  
BHC Sonic/Gamma Ray/Caliper (4,906'-858')  
Formation Density Log (Compensated) (4,905'-858')  
Microlog Caliper (4,905'-858')

Ran Century Geophysical velocity survey.

Ran sidewall cores - 24 shots as follows:

2,197'	- Not recovered	4,707'
2,203'		4,708'
4,600'		4,711'
4,610'		4,712'
4,620'		4,713' - Not recovered
4,630'		4,714'
4,640'		4,715'
4,650'		4,716'
4,660'		4,724'
4,669'		4,726'
4,679'		4,732'
4,681'		4,738'

SECTION V - ANALYSIS

a) Core Analysis

Core analysis enclosed in back folder.

b) Water Analysis

Water Analysis enclosed in back folder.

c) Gas Analysis

No Gas Analysis

d) Oil Analysis

No Oil Analysis.



CHEVRON STANDARD LIMITED  
BIT RECORD

CHEVRON SOBC WM  
NAME WHITEFISH YT I-05

CONTRACTOR

G.P.

RIG No.

15

PUMP No 1

6.700 6 1/4 X 14

DC SSC-7 1/2 X 2 1/2

DATE FEBRUARY 23, 1972

RIG RELEASED

MARCH 30, 1972

DRILLING DAYS

36

PUMP No 2

6.700 5 1/2 X 14

DP 4 1/2" BH

MAKE	SIZE	TYPE	DEPTH		FOOTAGE	TIME	DRUG RATE	NOZZLE SIZES	JET VEL	WEIGHT M #	RPM	No 1 PUMP		No 2 PUMP		PUMP PSI	HHP AT BIT	DP ANR	DC ANR	MUD			DULL COND			SEV	REMARKS
			FROM	TO								SPM	LINER	SPM	LINER					PSI	AT BIT	ANR	ANR	WT	VIS		
HUW	12 1/4	0503	79	788	609	32	22.2	3-22		8-15	125	6 1/4	60	5 1/2	60	650					8.5	40	4	2	I	1/4	2 - 9" Collars
HUW	12 1/4	0503	788	861	73	3 1/2	20.9	3-22		10	130	6 1/4	61	5 1/2	60	600					9.0	68	1	1	I	1/4	and 12-7 X 2 1/2 - 555
HUW	8 3/4	X16	261	2403	1522	31 1/4	49.3	2-10	403	30	100	6 1/4	50	5 1/2	68	1600	788	130	65		0.6	30	5	2	I	1 1/8	
HUW	8 3/4	533	2403	3985	1582	70 1/4	22.6	3-10	403	25	50	"	"	"	1650	"	"	"	"		9.3	45	2	2	I	2 1/4	Pulled to Core
WEST DRILL	6 3/16	◇	3985	4045	60	18 1/2	3.2	-	-	12	57	"	43	-	700	-	-	-	-		9.2	48			Good	-	
"	6 3/16	◇	4046	4080	24	8 3/4	3.	-	-	12	57	"	43	-	800	-	-	-	-		9.2	48			Good	-	
HUW	8 3/4	XDU	4080	4407	326	37 1/4	9.8	3-10	403	25	60	"	50	-	1600	-	-	-	-		9.4	57	4	1	I	1 3/4	Removed 8 1/2 in 8 3/4
SEC	8 3/4	S-88	4407	4456	49	3 1/4	15	2-10	-	30	50	"	"	-	1450	72	-	-	-		9.6	51	1	1	I	3 1/4	Pulled to Core
WEST DRILL	6 3/16	◇	4456	4480	24	8 3/4	2.8	-	-	12	57	"	43	-	800	-	-	-	-		9.6	50			Good	-	
SEC	8 3/4	S-88	4480	4620	140	17	8.2	2-10	-	25	60	"	50	-	1350	-	-	-	-		9.5	71	1	1	I	3	
SEC	8 3/4	S-44	4620	4696	76	5 1/4	14.5	2-10	-	15	80	"	55	-	1300	-	-	-	-		9.5	85	2	1	I	3 1/4	Pulled to Core
WEST DRILL	6 3/16	◇	4696	4758	62	4	16.5	-	-	12	75	"	50	-	800	-	-	-	-		9.5	87			Good	-	
READ DRILL	8 1/4	SMS	4696	4758	62	5 1/4	16.8	3-12	-	15	45	"	50	-	1600	-	-	-	-		9.5	87	1	1	I		Rem in
WEST DRILL	6 3/16	◇	4758	4797	39	16	3.4	-	-	12	57	"	42	-	800	-	-	-	-		9.5	78			Good	-	
READ DRILL	8 3/4	SMS	4758	4798	39	8 1/2	4.7	3-12	-	10	80	"	50	-	1400	-	-	-	-		9.4	93	1	1	I		Rem in
WEST DRILL	6 3/16	◇	4798	4831	33	13 1/2	2.5	-	-	10	80	"	52	-	800	-	-	-	-		9.4	82			Good	-	
READ DRILL	8 3/4	SMS	4831	4869	38	11 1/4	2.1	3-12	-	10	60	"	55	-	1100	-	-	-	-		9.5	91	6	8	O		Removed 23 in 6 1/4 hrs
SEC	8 3/4	S94	4869	4916	47	14	3.4	3-13	-	30	40	"	59	-	1200	-	-	-	-		9.5	103	6	5	O		







**CORE LABORATORIES - CANADA, LTD.**  
*Petroleum Reservoir Engineering*

WELL: CHEVRON SOBCC WM WHITEFISH YT I-05

PAGE: 2 OF 2

FORMATION:

FILE: 913-291

SUMMARY INTERVAL: 4696.0 - 4758.0

TOTAL FOOTAGE: 62.0

FOOTAGE ANALYZED 10.5

FOOTAGE NOT ANALYZED: TOTAL: 51.5 DENSE .5 LOST 51.0 DRILLED .0 \*NABR .0 RUBBLE .0

SUMMARY OF ANALYZED CORE:

TOTAL 10.5

BY PERM RANGES:

LESS THAN 0.10 MD. .6

0.10 0.40 MD. .0

0.50 0.99 MD. .0

1.00 9.99 MD. .0

GREATER THAN 9.99 MD. 9.9

FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE PORES %	POROSITY FEET	WEIGHTED AVERAGE PERM MD.	PERM FEET	WEIGHTED AVERAGE RESID OIL %	WEIGHTED AVERAGE TOT WATER %
10.5	100.00	15.48	162.53	111.77	1173.55	.00	.00
.6	5.71	14.10	8.46	.00	.00	.00	.00
.0	.00	.00	.00	.00	.00	.00	.00
.0	.00	.00	.00	.00	.00	.00	.00
.0	.00	.00	.00	.00	.00	.00	.00
9.9	94.29	15.56	154.07	118.54	1173.55	.00	.00

\*NOT ANALYZED BY REQUEST





**CHEMICAL & GEOLOGICAL LABORATORIES LTD.**

WATER ANALYSIS

Lab No. C72-4706

Received: April 11, 1972 Reported: April 13, 1972

Well: Location: Chevron SOBC WM, Whitefish YT 105

Operator: CHEVRON STANDARD LIMITED

Field or Area: Whitefish

Elev.: K.B.

Grd.

Zone/Formation:

Sample Interval:

Method of Production: D.S.T. 3

Sampled from: Top of Tool

Sampled by: Johnston Testers Ltd.

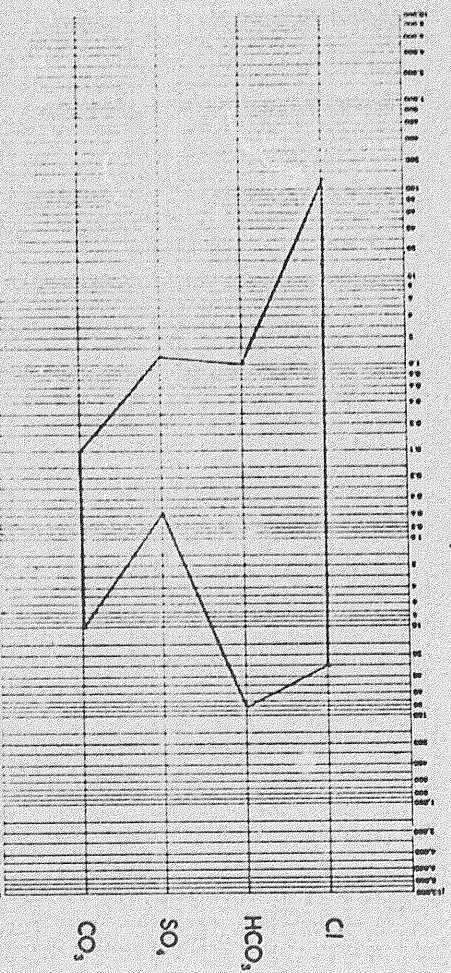
Date: Mar. 10, 1972

**OTHER PERTINENT DATA**

(Signed)

Na & K	Ca	Mg	SO <sub>4</sub>	Cl	CO <sub>2</sub>	HCO <sub>3</sub>
2818	22	15	28	1100	310	5060
p/l						
122.57	1.10	1.23	0.58	31.02	10.32	82.98
p/l						
49.07	0.44	0.50	0.23	12.42	4.13	33.22

Total Solids Mg/l: By Evaporation 7,112 Fe Present Specific Gravity 1.008 @60°F Observed pH 8.7 @ 74 °F  
 Calculated 9,353 After Ignition 5,524 H<sub>2</sub>S Nil Refractive Index 1.3340 @25°C Resistivity 1.09 ohm meters @ 68 °F  
 Pattern Unit Meq/L



**Remarks and Conclusions**

Analysis determined on clear colorless filtrate recovered from water containing thin layer of sediment. Trace of organic matter detected in evaporated total dissolved solids.



**CHEMICAL & GEOLOGICAL LABORATORIES LTD.**

WATER ANALYSIS

Lab No. C72-4705

Received: Apr. 11, 1972 Reported: April 13, 1972

Well: Location: Chevron SOBC WM, Whitefish Y.T. 105

Operator: CHEVRON STANDARD LIMITED

Field or Area: Whitefish

Elev.: K.B. Grd. Zone/Formation:

Sample Interval:

Method of Production: D.S.T. 4

Sampled from: Top of Tool

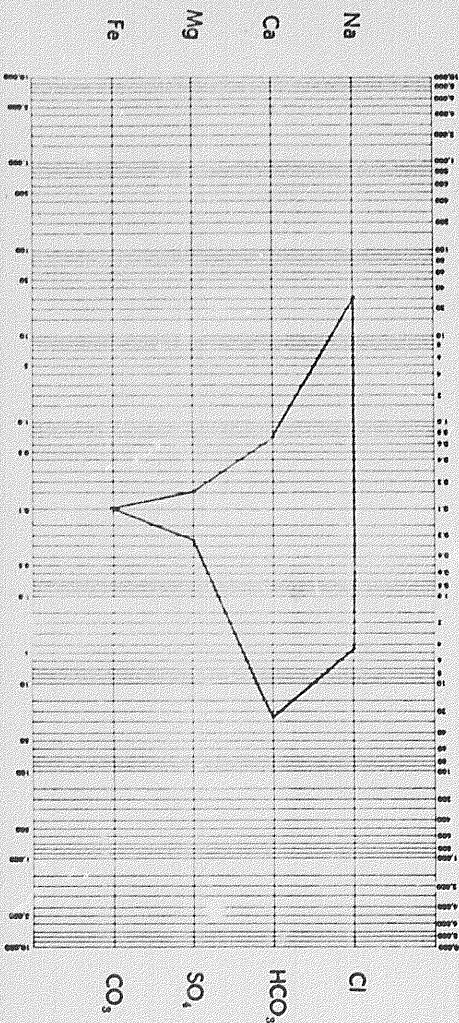
Sampled by Johnston Testers Ltd. Date: Mar. 26, 1972

OTHER PERTINENT DATA

(Signed)

Mg./l	Na & K	Ca	Mg	SO <sub>4</sub>	Cl	CO <sub>2</sub>	HCO <sub>3</sub>
704		14	2	12	160	Trace	1630
Meg./L		0.70	0.16	0.25	4.51		26.73
Meg. %		1.11	0.25	0.40	7.16		42.44

Total Solids Mg/L: By Evaporation 2,088 Fe Present Specific Gravity 1.004 @60°F Observed pH 8.3 @ 74°F  
 Calculated 2,522 After Ignition 1,504 H<sub>2</sub>S Nil Refractive Index 1.3331 @25°C Resistivity 4.02 ohm meters @ 68°F  
 Pattern Unit Meq./L



Remarks and Conclusions

Analysis determined on clear colorless filtrate recovered from water containing thin layer of sediment. Trace of organic matter detected in evaporated total dissolved solids.

**JOHNSTON**

**Schlumberger**

**technical  
report**



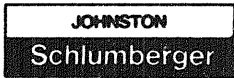
JT-16E-68

**JOHNSTON**  
**Schlumberger**

321, 50TH AVENUE S.E. • CALGARY 24 ALBERTA • PH. 255-1151  
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TEST DATA				TOOL SEQUENCE		
Type of Test	Open Hole, Straddle, Conventional			Tool	Length	O.D.
Time Started in Hole	2230	Hrs.	Tool Opened	0218	Hrs.	
First Flow	5	Min.	Initial Shut-In	60	Min.	
Second Flow	90	Min.	Second Shut In		Min.	
Third Flow		Min.	Final Shut In	150	Min.	
Pulled Loose @	0730	Hrs.	Out of Hole	1200	Hrs.	
Wt. Set/on Packers	38,000	#	Pulled Loose Wt.	20,000	#	
Description of Blow During Test						
Good air blow on preflow. Good air blow on valve opening, decreasing to faint at end of flow.						
FLUID RECOVERY Was Test Reverse Circulated Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						
Total Fluid Recovered	1650	Ft.				
Description of Fluid Recovered						
1650' muddy fresh water, with trace of gas.						
GAS BLOW MEASUREMENT						
Measured With				I.D. Riser		
Time	Sfcs. Choke	Reading psi inches	M Cubic Feet/Day			
No gas to surface.						
REMARKS: Test satisfactory. Tool was run in shut-in position and set with 35,000 lbs. for 15 minutes prior to preflow.						
RESISTIVITY				SALT CONTENT		
Recovery Water	@	°F.	under 2,000	ppm.		
Mud Pit sample filtrate	@	°F.		ppm.		
District	Inuvik	Ticket No.	D06591	Date	March 26/72	Test No. 4 J.T. No. 4
Company	Chevron Standard Limited			Address	400 - 5th Ave. S.W.	
Well Name	Chevron SOBC Wm Whitefish YT 1-05			Field	Calgary 1, Alberta	
Number	67°04'37"N 135°15'25"W			Province	Yukon	
Formation	Thickness			Co. Rep	Hugh Herring	
Interval	2192 - 2202		T.D.	4916 Technician Jim Fulk		
Distribution of Reports 9 - Bob Condon, Calgary						
				TOTAL LENGTH 2760.03		
				Elevation G.L. 1127 KB 1142		
				Bottom Hole Choke Size 1/2"		
				Fluid Cushion Type Nil Amt		
MUD AND HOLE DATA						
Mud Type Gel				W.L. 8.0		
Filter Cake 2/32				Visc. 95 Wt. 9.5		
Time Taken						
Contractor G.P. Drilling				Rig No. 15		
Drill Pipe Size 4 1/2" FH						
Drill Collar Size 2 7/8" ID				&		
Drill Collar Length 521.74'				&		
Main Hole Size				Rat Hole		





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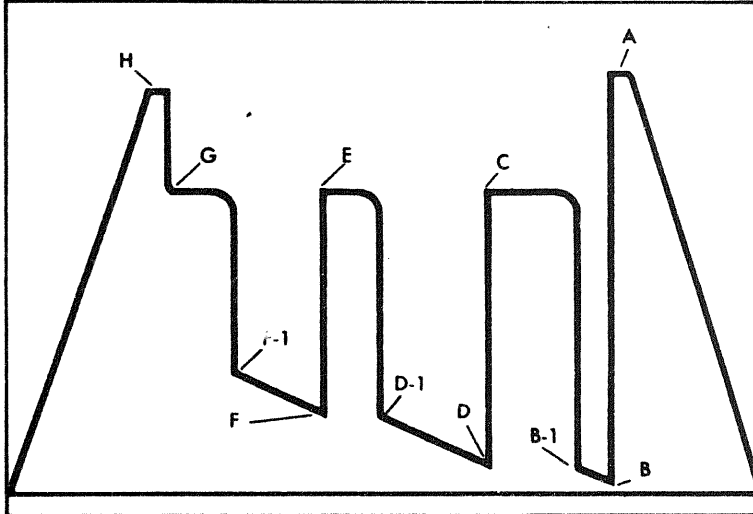
**GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS**

FIELD REPORT NO.

RECORDER NO.

D06591

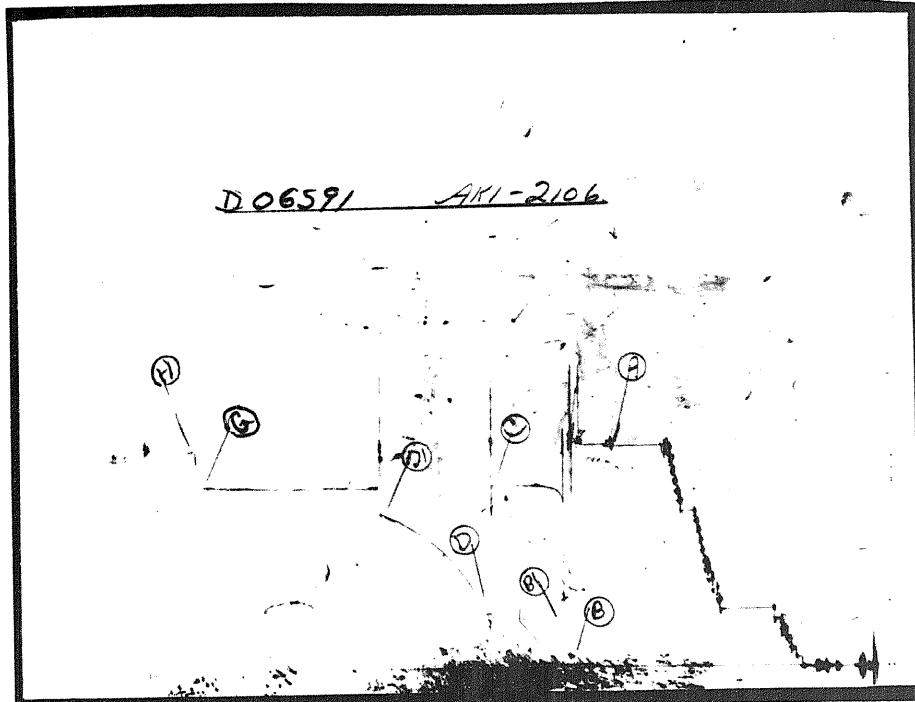
AK1-2106



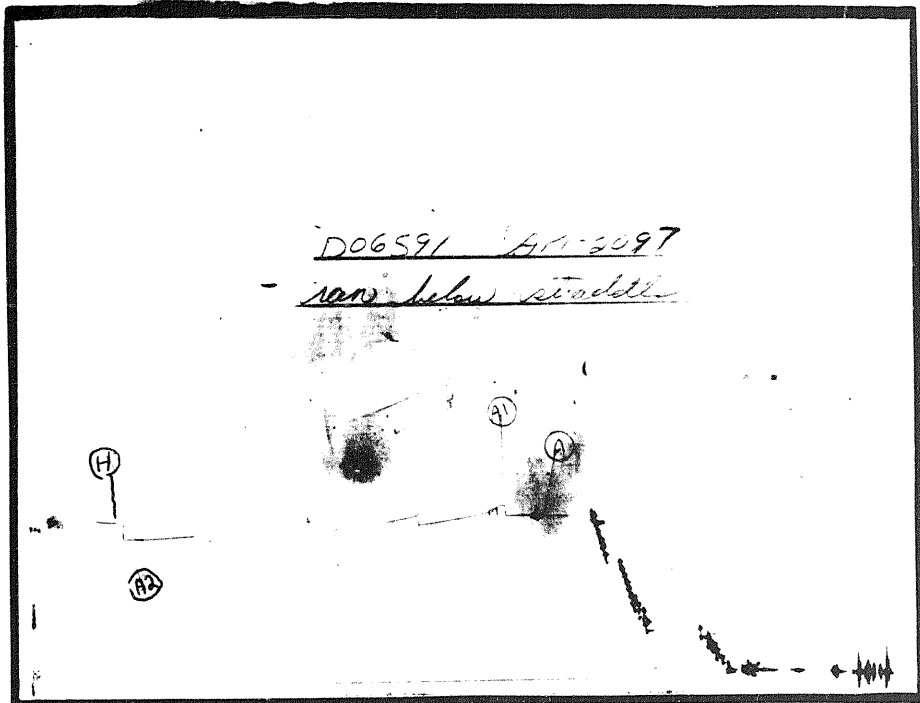
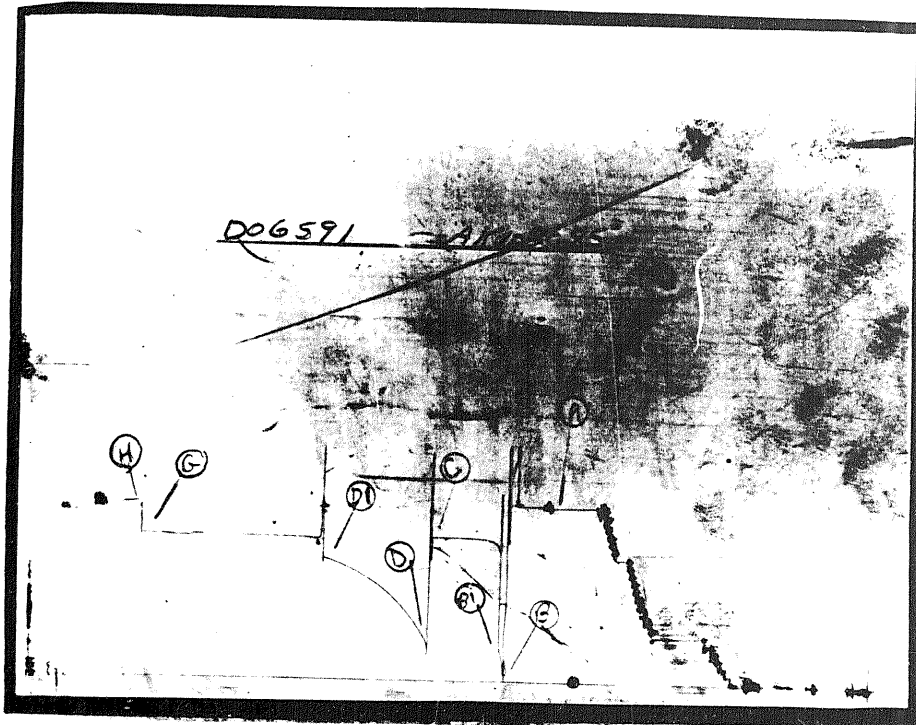
- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures  
 Z — Special pressure points such as pumping pressures recorded for formation breakdown.







JOHNSTON

Schlumberger

**technical  
report**





JOHNSTON

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JOHNSTON TESTERS

221 - 50TH AVENUE S.E. • CALGARY, ALBERTA - T2G 2R3 • (416) 255-1171  
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D06590

PRESSURE DATA

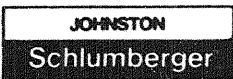
FLUID SAMPLE REPORT

INSTRUMENT No.	AK1-2085	AK1-2097			Sample No.	
CAPACITY (psig)	4400	4600			Typ	
INSTRUMENT DEPTH FT.	4658	4686			Depth	
INSTRUMENT OPENING	Inside	Outside			Volume	
WELL TEMP. °F.	101				Sample Pressure:	
INITIAL HYDROSTATIC	A	2337#	2370#		psig. at Surface	
FIRST FLOW	B	203#	1045#		Gravity	API @ °F
	B-1	1088#	1447#		Gas/Oil Ratio	Cu.Ft./bbl.
INITIAL SHUT-IN	C	1975#	2006#		Recovery:	
SECOND FLOW	D	1313#	1367#		Cu. Ft. Gas	
	D-1	1970#	2000#		cc. Oil	
SECOND SHUT-IN	E				cc. Water	
THIRD FLOW	F				cc. Mud	
	F-1				Total Liquid cc	
FINAL SHUT-IN	G	1983#	2011#			
FINAL HYDROSTATIC	H	2330#	2361#			

REMARKS:

PRESSURE INCREMENTS ON RECORDER # AK1-2097

INITIAL SHUT-IN			FINAL SHUT-IN					
POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$
0	1446.5	----	0	1999.8	----			
5	1957.7	3.00	10	2007.8	11.00			
10	1977.6	2.00	20	2008.2	6.00			
15	1985.1	1.67	30	2008.5	4.33			
20	1990.4	1.50	40	2008.9	3.50			
25	1993.7	1.40	50	2009.3	3.00			
30	1996.5	1.33	60	2009.7	2.67			
35	1998.8	1.29	70	2010.0	2.43			
40	2000.9	1.25	80	2010.3	2.25			
45	2002.7	1.22	90	2010.6	2.11			
50	2003.8	1.20	100	2010.8	2.00			
55	2004.8	1.18	110	2011.0	1.91			
60	2005.6	1.17	120	2011.1	1.83			
			130	2011.2	1.77			
			140	2011.3	1.71			
			150	2011.4	1.67			

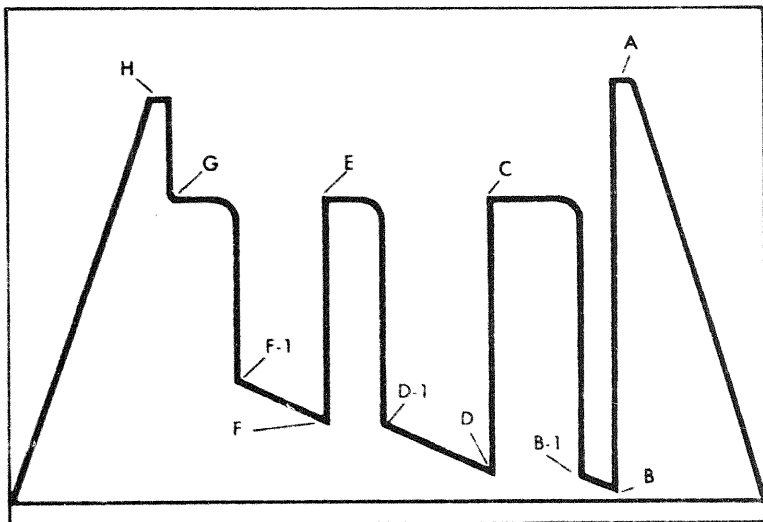


**JOHNSTON TESTERS** 321 50TH AVENUE S.E. • CALGARY 24 ALBERTA • PH 255 1151  
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**GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS**

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 D06590

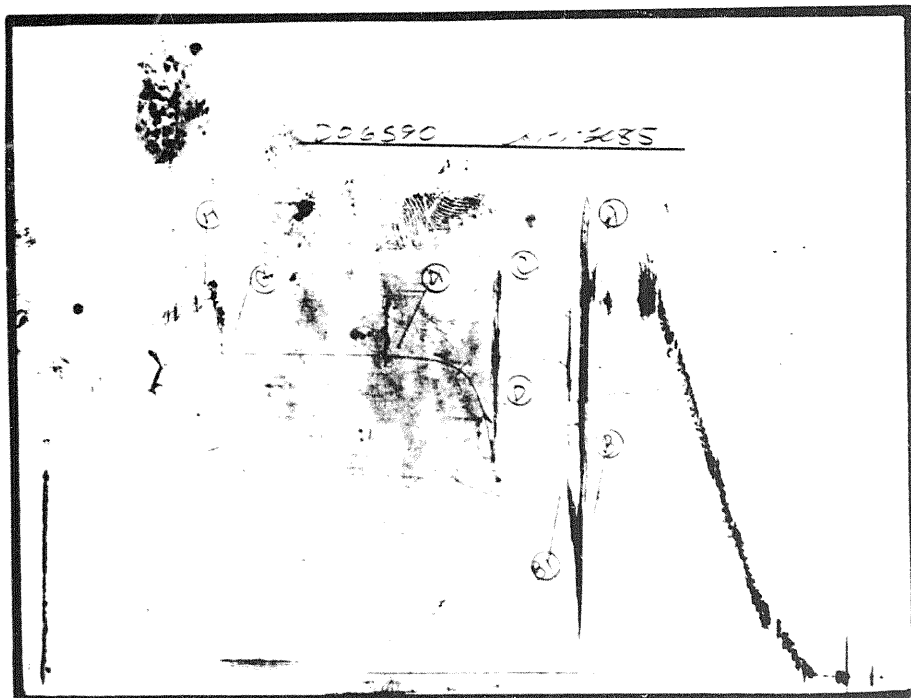
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 AK1-2085



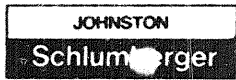
- A. Initial Hyd. Mud
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- E. Second Shut-In
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- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.







**JOHNSTON TESTERS** 321 50TH AVENUE S.E. - CALGARY 24 ALBERTA - PH 255 1151  
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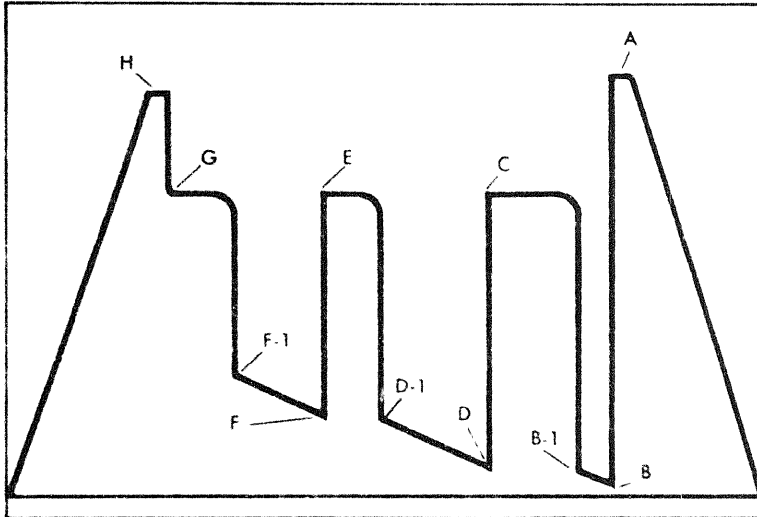
**GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS**

FIELD REPORT NO.

RECORDER NO.

D06590

AK1-2007



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- Z - Special pressure points such as pumping pressures recorded for formation breakdown.



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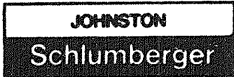
**technical  
report**











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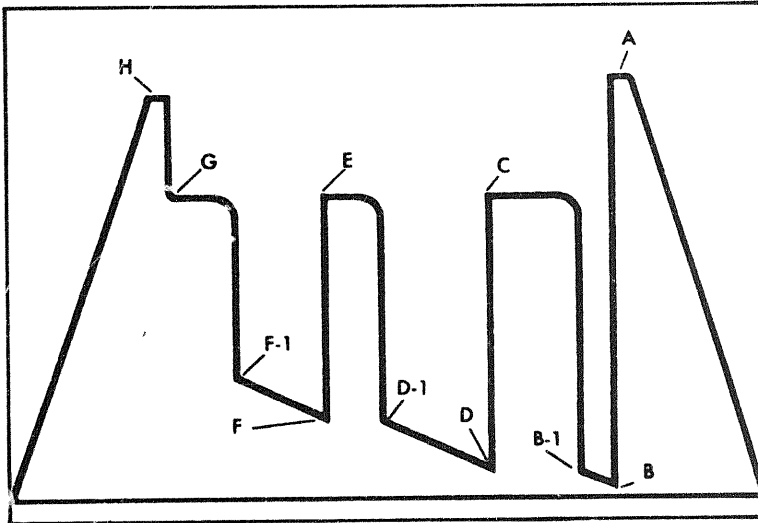
### GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD REPORT NO.

RECORDER NO.

D06588

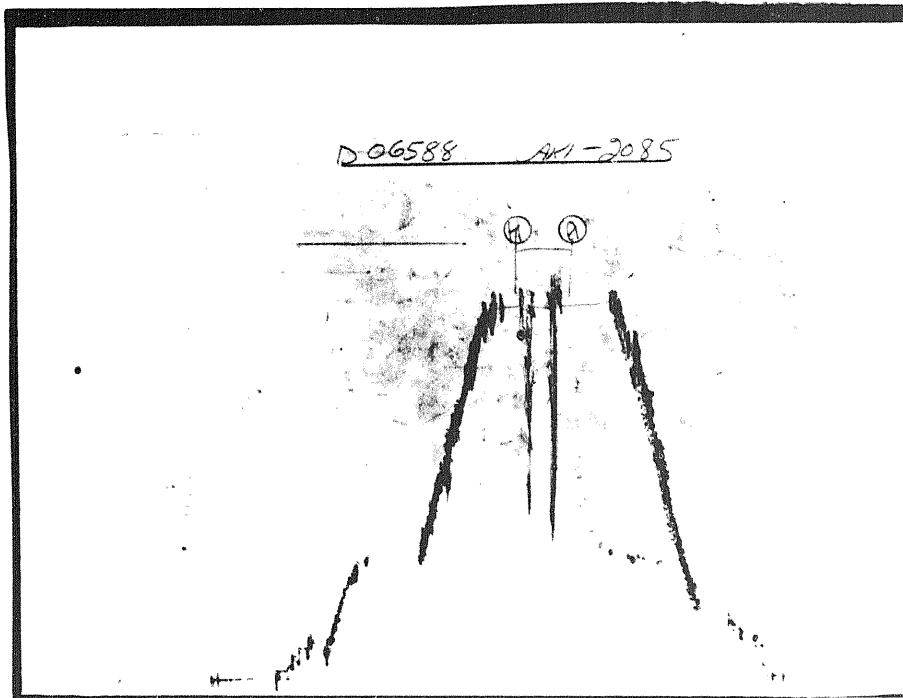
AK1-2085



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures  
Z — Special pressure points such as pumping pressures recorded for formation breakdown.



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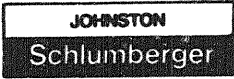
**technical  
report**









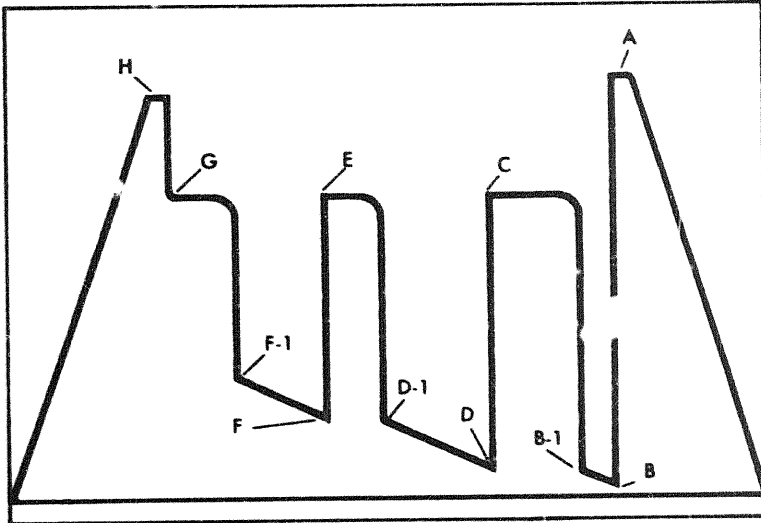


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### GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD REPORT NO.  
D06589

RECORDER NO.  
AK1-2085



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures  
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

