



Home Office: Wichita, Kansas 67201

P. O. Box 1599

(316) 838-0601

K. U. #1

Company J. A. Allison Lease & Well No. 2712
Elevation 1104 Kelly Bushing Howard Effective Pay -- Ft. Ticket No. 2712
Date 8/13/79 Sec 23 Twp 34S Range 2W County Sumner State Kansas
Test Approved by E.B. Donnelly Western Representative Vernon Wondra

Formation Test No. 1 Interval Tested from 2010 ft. to 2040 ft. Total Depth 2040 ft.

Packer Depth 2005 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2010 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2030 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 2033 ft. Recorder Number 1563 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB Drilling Rig #3Drill Collar Length - I. D. - in.Mud Type salt gel Viscosity 34Weight Pipe Length 632 I. D. 2.7 in.Weight 9.8 Water Loss 7.6 cc.Drill Pipe Length 1357 I. D. 3.8 in.Chlorides 12,000 P.P.M.Test Tool Length 21 ft. Tool Size 5 1/2 OD in.Jars: Make -- Serial Number --Anchor Length 30 ft. Size 5 1/2 OD in.Did Well Flow? Yes Reversed Out NoSurface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.Blow: Gas to surface in thirteen minutes. Gauged 127,000 CFPD(Max.)See attached sheet for gas measurements.Recovered 90 ft. of gas cut mudRecovered 60 ft. of gas cut watery mudRecovered 120 ft. of gas cut muddy water (chlorides 81,000 ppm)Recovered - ft. of -Recovered - ft. of TIGHT HOLERemarks: -

Time Set Packer(s) 10:40 A.M. P.M. = Time Started Off Bottom 3:40 A.M. P.M. = Maximum Temperature 102

Initial Hydrostatic Pressure 1035 (A) P.S.I.Initial Flow Period 60 Minutes (B) 46 P.S.I. to (C) 95 P.S.I.Initial Closed In Period 60 Minutes (D) 980 P.S.I.Final Flow Period 90 Minutes (E) 90 P.S.I. to (F) 111 P.S.I.Final Closed In Period 90 Minutes (G) 967 P.S.I.Final Hydrostatic Pressure 1021 (H) P.S.I.

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GAS FLOW REPORT

Date	8/13/79	Ticket	2712	Company	J. A. Allison
Well Name and No.	K. U. #1		Dst No.	1	Interval Tested
County	Sumner	State	Kansas	Sec.	23
				Twp.	34S
				Rg.	2W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in 13 minutes. PRE FLOW						
	10 min.	100" of water	1/4" orifice			16,800 CFPD
	20 min.	76" of water	1/2" orifice			54,700 CFPD
	30 min.	100" of water	1/2" orifice			62,700 CFPD
	40 min.	46" of water	3/4" orifice			96,300 CFPD
	47 min.	50" of water	3/4" orifice			100,000 CFPD

SECOND FLOW

	10 min.	76" of water	3/4" orifice		123,000 CFPD
	20 min.	74" of water	3/4" orifice		122,000 CFPD
	30 min.	76" of water	3/4" orifice		123,000 CFPD
	40 min.	76" of water	3/4" orifice		123,000 CFPD
	50 min.	80" of water	3/4" orifice		127,000 CFPD
	60 min.	78" of water	3/4" orifice		119,000 CFPD
	70 min.	80" of water	3/4" orifice		127,000 CFPD
	80 min.	76" of water	3/4" orifice		123,000 CFPD
	90 min.	76" of water	3/4" orifice		123,000 CFPD
				TIGHT HOLE	

GAS BOTTLE

Serial No. 610 Date Bottle Filled 8/13/79 Date to be Invoiced 8/13/79

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME J. A. Allison

Authorized by E. B. Donnelly

WESTERN TESTING CO., INC.

Pressure Data

Date 8/13/79 Recorder No. 10979 Capacity 4100 Test Ticket No. 2712
 Location 1104 Kelly Bushing Ft. 102
 Clock No. --- Elevation --- Well Temperature --- °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1035 P.S.I.	10:40A	
B First Initial Flow Pressure	46 P.S.I.	60 Mins.	60 Mins.
C First Final Flow Pressure	95 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	980 P.S.I.	90 Mins.	90 Mins.
E Second Initial Flow Pressure	90 P.S.I.	90 Mins.	90 Mins.
F Second Final Flow Pressure	111 P.S.I.		
G Final Closed-in Pressure	967 P.S.I.		
H Final Hydrostatic Mud	1021 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure				Initial Shut-In				Second Flow Pressure				Final Shut-In			
Breakdown: <u>12</u> Inc.				Breakdown: <u>20</u> Inc.				Breakdown: <u>18</u> Inc.				Breakdown: <u>30</u> Inc.			
of <u>5</u> mins. and a				of <u>3</u> mins. and a				of <u>5</u> mins. and a				of <u>3</u> mins. and a			
final inc. of <u>0</u> Min.				final inc. of <u>0</u> Min.				final inc. of <u>0</u> Min.				final inc. of <u>0</u> Min.			
Point Mins.		Press.		Point Minutes		Press.		Point Minutes		Press.		Point Minutes		Press.	
P 1	0	46		0		95		0		90		0		111	
P 2	5	32		3		669		5		92		3		414	
P 3	10	38		6		858		10		94		6		721	
P 4	15	48		9		906		15		97		9		819	
P 5	20	57		12		925		20		100		12		858	
P 6	25	63		15		942		25		101		15		885	
P 7	30	69		18		950		30		102		18		900	
P 8	35	76		21		956		35		103		21		910	
P 9	40	84		24		963		40		104		24		917	
P10	45	87		27		964		45		105		27		924	
P11	50	89		30		967		50		106		30		929	
P12	55	93		33		970		55		106		33		935	
P13	60	95		36		972		60		107		36		938	
P14				39		973		65		108		39		940	
P15				42		974		70		109		42		943	
P16				45		975		75		110		45		946	
P17				48		976		80		110		48		949	
P18				51		977		85		111		51		951	
P19				54		978		90		111		54		953	
P20				57		979						57		954	
				60		980						60		955	
WTC - A															

WESTERN TESTING CO., INC.

Pressure Data

Date 8/13/79 Test Ticket No. 2712

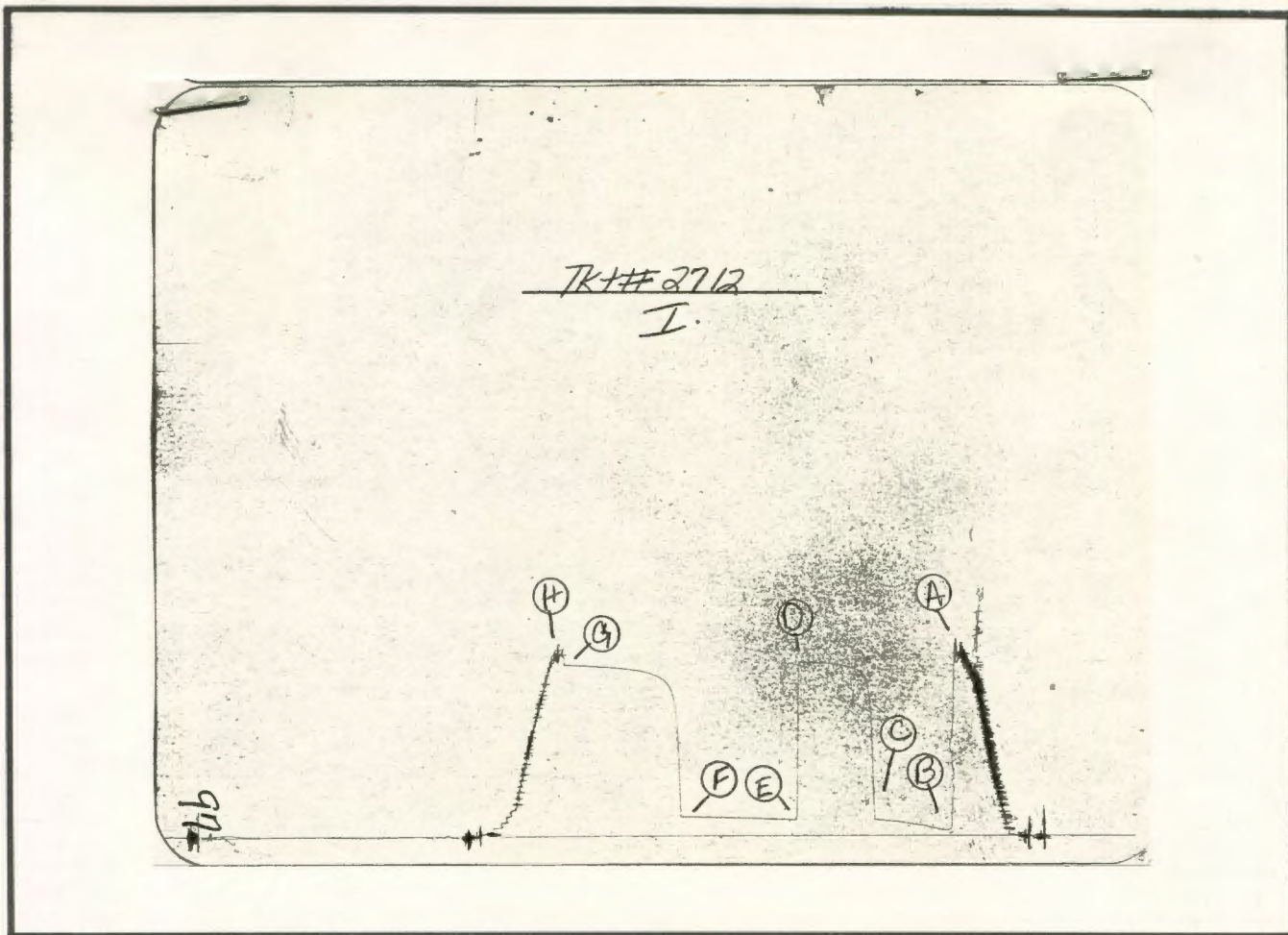
Recorder No. 10979 Capacity 4100 Location 2030 Ft.

Block No. 1104 Kelly Bushing Elevation 102 Well Temperature 102 °F

Point	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	1035 P.S.I.		10:40A	
First Initial Flow Pressure	46 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
First Final Flow Pressure	95 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
Initial Closed-in Pressure	980 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
Second Initial Flow Pressure	90 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
Second Final Flow Pressure	111 P.S.I.			
Final Closed-in Pressure	967 P.S.I.			
Final Hydrostatic Mud	1021 P.S.I.			

PRESSURE BREAKDOWN

Point	First Flow Pressure Breakdown	Initial Shut-In Breakdown	Second Flow Pressure Breakdown	Final Shut-In Breakdown	
1	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
63				63	957
66				66	959
69				69	960
72				72	962
75				75	963
78				78	964
81				81	965
84				84	966
87				87	967
90				90	967
P11					
P12					
P13					
P14					
P15					
P16					
P17					
P18					
P19					
P20					



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1024	1035	PSI
(B) First Initial Flow Pressure	31	46	PSI
(C) First Final Flow Pressure	84	95	PSI
(D) Initial Closed-in Pressure	972	980	PSI
(E) Second Initial Flow Pressure	84	90	PSI
(F) Second Final Flow Pressure	105	111	PSI
(G) Final Closed-in Pressure	962	967	PSI
(H) Final Hydrostatic Mud	1014	1021	PSI



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Company J. A. Allison Lease & Well No. K. U. #1
Elevation 1104 Kelly Bushing Formation Severy Sand Effective Pay -- Ft. Ticket No. 2713
Date 8/14/79 Sec. 23 Twp. 34 Range 2W County Sumner State Kansas
Test Approved by E. B. Donnelly Western Representative Vernon Wondra

Formation Test No. 2 Interval Tested from 2090 ft. to 2115 ft. Total Depth 2115 ft.
Packer Depth 2085 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 2090 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2105 ft. Recorder Number 10979 Cap. 4100
Bottom Recorder Depth (Outside) 2108 ft. Recorder Number 1563 Cap. 4200
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor DNB Drilling Rig #3 Drill Collar Length -- I. D. -- in.
Mud Type salt gel Viscosity 38 Weight Pipe Length 632 I. D. 2.7 in.
Weight 9.8 Water Loss 6.8 cc. Drill Pipe Length 1413 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 25 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout first flow period. Strong blow decreased and died in 45 minutes on second flow period.

Recovered 1955 ft. of water chlorides 128,000 ppm
Recovered -- ft. of --
Recovered -- ft. of -- TIGHT HOLE
Recovered -- ft. of --
Recovered -- ft. of --

Remarks: --

Time Set Packer(s) 2:05 A.M. Time Started Off Bottom 6:05 A.M. Maximum Temperature 104
Initial Hydrostatic Pressure 1093 P.S.I.
Initial Flow Period 60 Minutes (B) 244 P.S.I. to (C) 935 P.S.I.
Initial Closed In Period 60 Minutes (D) 1019 P.S.I.
Final Flow Period 60 Minutes (E) 958 P.S.I. to (F) 1014 P.S.I.
Final Closed In Period 60 Minutes (G) 1025 P.S.I.
Final Hydrostatic Pressure 1078 P.S.I. (H)

WESTERN TESTING CO., INC.

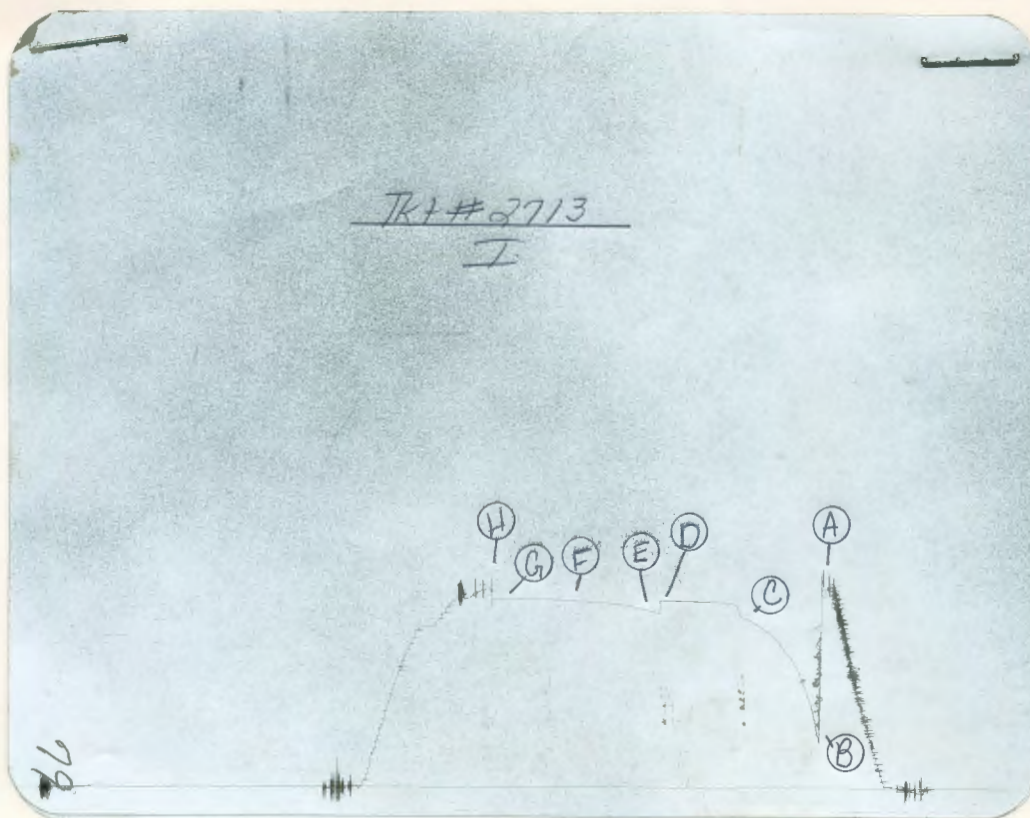
Pressure Data

Date 8/14/79 Recorder No. 10979 Capacity 4100 Test Ticket No. 2713
 Location 2105 Ft. 104
 Clock No. -- Elevation 1104 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1093	P.S.I.	2:05A	M
B First Initial Flow Pressure	244	P.S.I.	60	Mins.
C First Final Flow Pressure	935	P.S.I.	60	Mins.
D Initial Closed-in Pressure	1019	P.S.I.	60	Mins.
E Second Initial Flow Pressure	958	P.S.I.	60	Mins.
F Second Final Flow Pressure	1014	P.S.I.		
G Final Closed-in Pressure	1025	P.S.I.		
H Final Hydrostatic Mud	1078	P.S.I.		

PRESSURE BREAKDOWN

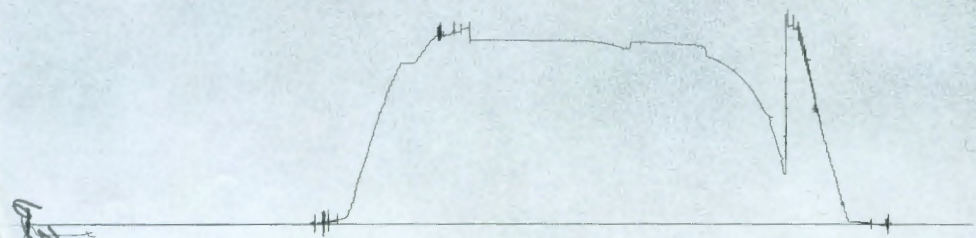
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	244	0	935	0	958	0	1014
P 2 5	399	3	992	5	952	3	1015
P 3 10	519	6	1002	10	967	6	1016
P 4 15	598	9	1005	15	978	9	1017
P 5 20	683	12	1008	20	985	12	1018
P 6 25	733	15	1009	25	992	15	1019
P 7 30	777	18	1010	30	995	18	1020
P 8 35	819	21	1011	35	1001	21	1021
P 9 40	852	24	1012	40	1005	24	1023
P10 45	879	27	1013	45	1008	27	1024
P11 50	902	30	1014	50	1011	30	1025
P12 55	921	33	1015	55	1012	33	1025
P13 60	935	36	1016	60	1014	36	1025
P14		39	1016			39	1025
P15		42	1017			42	1025
P16		45	1017			45	1025
P17		48	1018			48	1025
P18		51	1018			51	1025
P19		54	1019			54	1025
P20		57	1019			57	1025
		60	1019			60	1025



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1086	1093	PSI
(B) First Initial Flow Pressure	241	244	PSI
(C) First Final Flow Pressure	931	935	PSI
(D) Initial Closed-in Pressure	1004	1019	PSI
(E) Second Initial Flow Pressure	941	958	PSI
(F) Second Final Flow Pressure	1004	1014	PSI
(G) Final Closed-in Pressure	1014	1025	PSI
(H) Final Hydrostatic Mud	1076	1078	PSI

TK-#2713
0.





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J.A. Allison

Company _____ Lease & Well No. K.U. #1

Elevation 1104 Kelly Bush Formation Topeka Effective Pay - Ft. Ticket No. 2714

Date 8-14-79 Sec 23 Twp 34S Range 2W County Sumner State Kansas

Test Approved by E.B. Donnelly Western Representative Vernon Wondra

Formation Test No. 3 Interval Tested from 2125 ft. to 2150 ft. Total Depth 2150 ft.

Packer Depth 2120 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2125 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2140 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 2145 ft. Recorder Number 1563 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor D.N.B. Drllg. (#3) Drill Collar Length - I. D. - in.

Mud Type Salt Gel Viscosity 37 Weight Pipe Length 632 I. D. 2.7 in.

Weight 9.8 Water Loss 7.2 cc. Drill Pipe Length 1472 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 25 ft. Size 5 1/2 OD in.

Did Well Flow? Yes Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Gas to surface in 3 minutes. In 10 minutes gauged 170,000 C.F.P.D. Flowed muddy water in 11 minutes.

Recovered 1260 ft. of water (Chlorides 128,000 PPM)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Western sent gas bottle #618 to Pan-Tech Laboratories, Pampa, Texas.

TIGHT HOLE

Time Set Packer(s) 4:10 ~~A.M.~~ P.M. Time Started Off Bottom 6:20 ~~A.M.~~ P.M. Maximum Temperature 102

Initial Hydrostatic Pressure (A) 1097 P.S.I.

Initial Flow Period Minutes 30 (B) 288 P.S.I. to (C) 513 P.S.I.

Initial Closed In Period Minutes 45 (D) 1037 P.S.I.

Final Flow Period Minutes 10 (E) 556 P.S.I. to (F) 608 P.S.I.

Final Closed In Period Minutes 45 (G) 1043 P.S.I.

Final Hydrostatic Pressure (H) 1076 P.S.I.

WESTERN TESTING CO., INC.

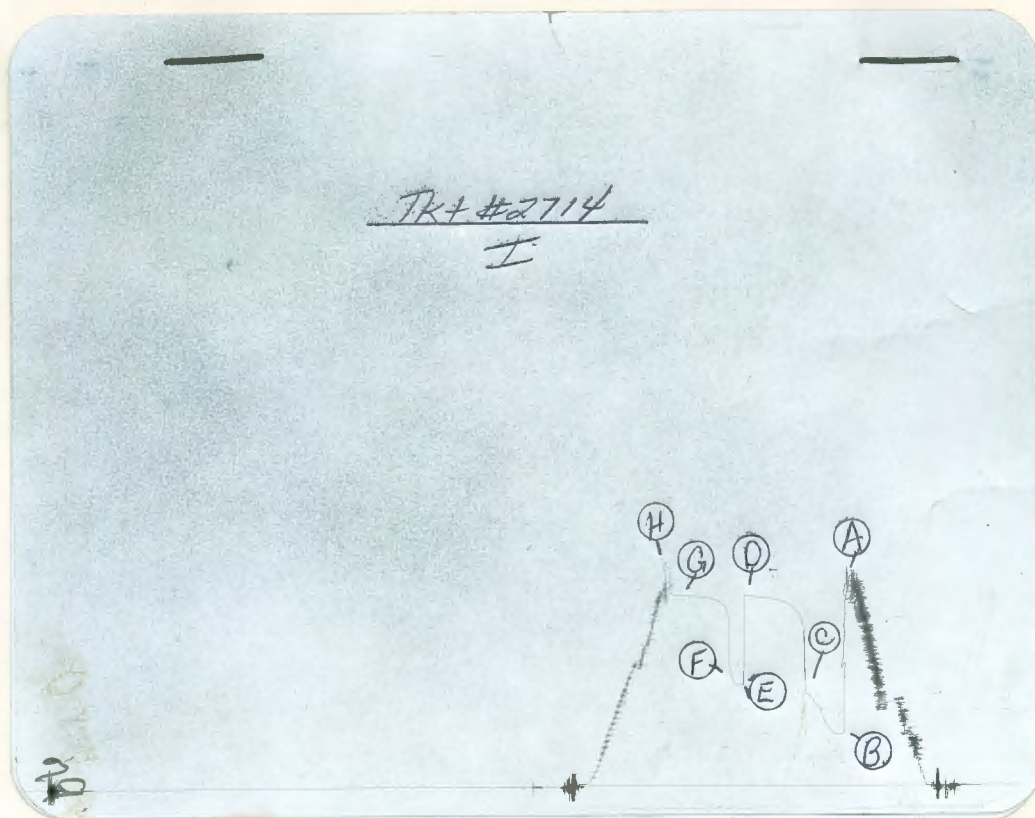
Pressure Data

Date 8-14-79 Recorder No. 10979 Capacity 4100 Test Ticket No. 2714
 Clock No. - Elevation 1104 Kelly Bushing Location 2140 Ft. -
 Well Temperature 102 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1097 P.S.I.	4:10a.	M
B First Initial Flow Pressure	288 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	513 P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1037 P.S.I.	10 Mins.	10 Mins.
E Second Initial Flow Pressure	556 P.S.I.	45 Mins.	45 Mins.
F Second Final Flow Pressure	608 P.S.I.		
G Final Closed-in Pressure	1043 P.S.I.		
H Final Hydrostatic Mud	1076 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	288	0	513	0	556	0	608
P 2 5	279	3	881	5	554	3	938
P 3 10	303	6	935	10	608	6	985
P 4 15	362	9	965			9	1004
P 5 20	439	12	985			12	1017
P 6 25	494	15	998			15	1025
P 7 30	513	18	1007			18	1029
P 8		21	1014			21	1033
P 9		24	1021			24	1035
P10		27	1025			27	1037
P11		30	1028			30	1038
P12		33	1031			33	1039
P13		36	1033			36	1040
P14		39	1035			39	1041
P15		42	1036			42	1042
P16		45	1037			45	1043
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1086	1097	PSI
(B) First Initial Flow Pressure	273	288	PSI
(C) First Final Flow Pressure	504	513	PSI
(D) Initial Closed-in Pressure	1034	1037	PSI
(E) Second Initial Flow Pressure	545	556	PSI
(F) Second Final Flow Pressure	597	608	PSI
(G) Final Closed-in Pressure	1034	1043	PSI
(H) Final Hydrostatic Mud	1076	1076	PSI

TR+#2764

