

Formation Testing Service Report

REC'D JAN 31 1975

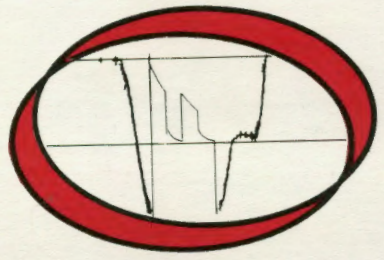
Lease Name **TITUS**

Well No. **1**

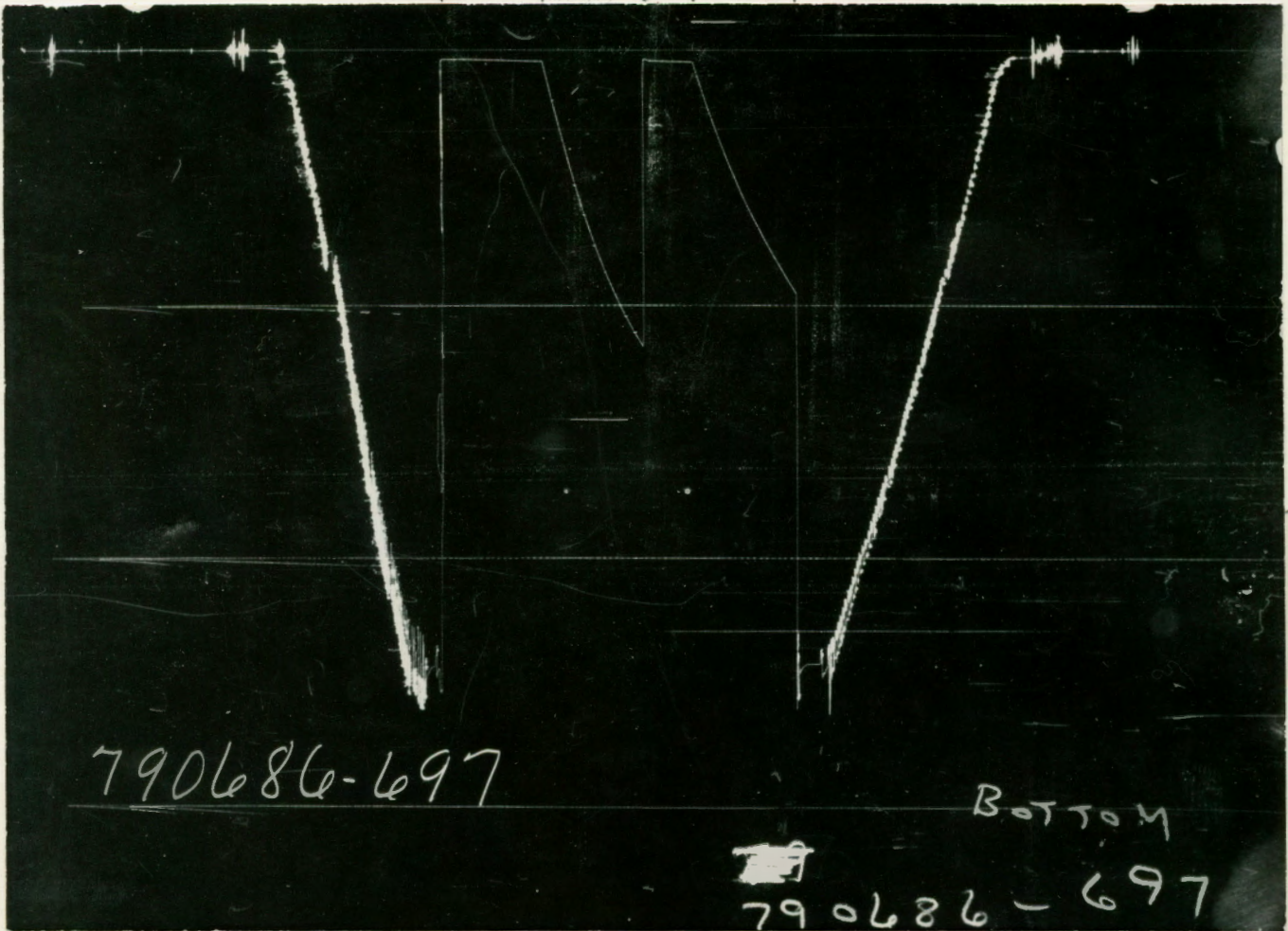
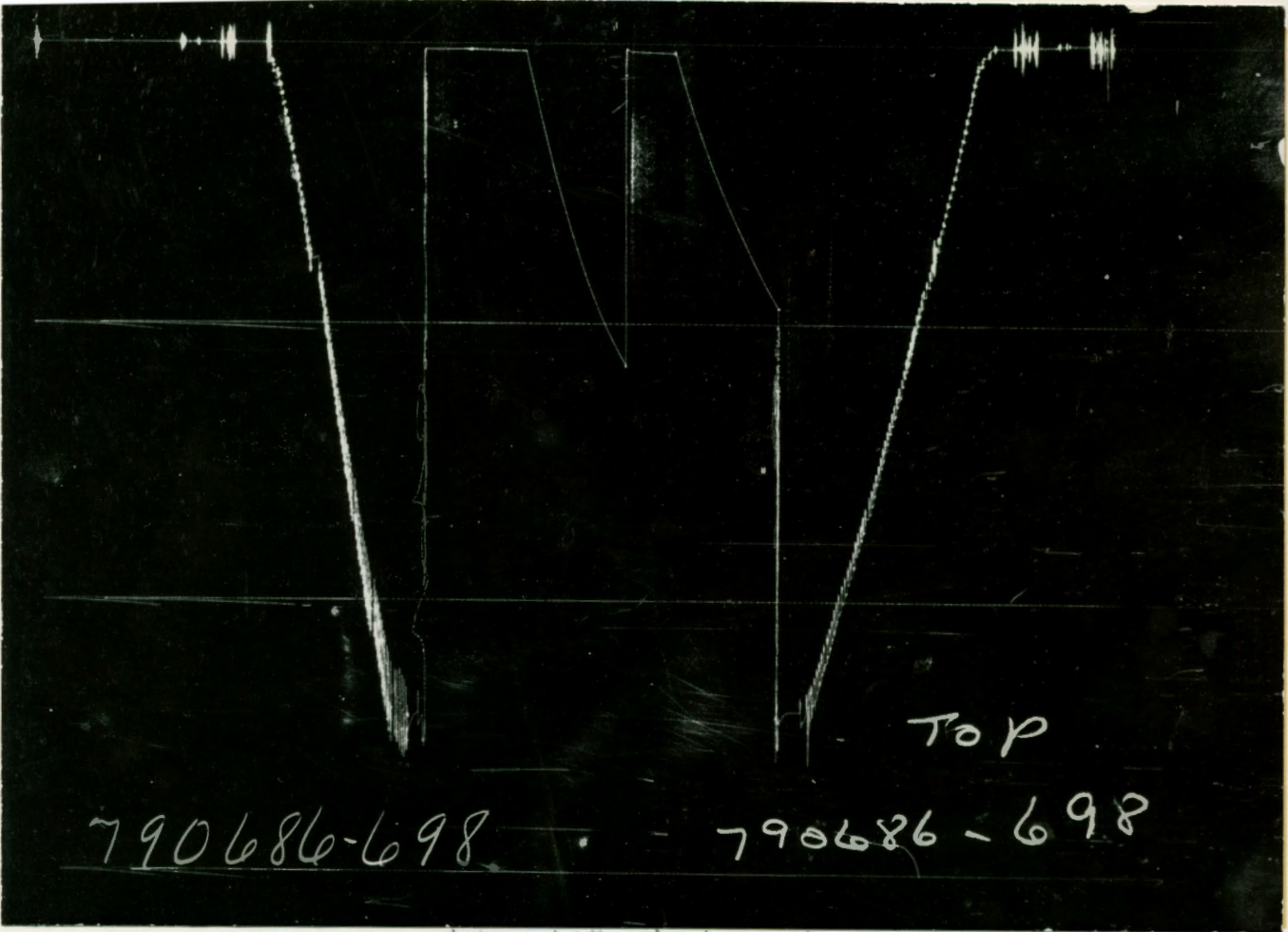
Test No. **1**

Tested Interval **4684' - 4724'**

Lease Owner/Company Name **GLEN RUPE**



HALLIBURTON SERVICES
DUNCAN, OKLAHOMA



Each Horizontal Line Equal to 1000 p.s.i.

FLUID SAMPLE DATA		Date	1-25-75	Ticket Number	790686
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job	OPEN HOLE	Halliburton District	PRATT	
Recovery: Cu. Ft. Gas _____	Tester	MR. PARKER	Witness	MR. CLEMENTS	
cc. Oil _____	Drilling Contractor	RED TIGER DRILLING COMPANY BC S			
cc. Water _____	EQUIPMENT & HOLE DATA				
cc. Mud _____	Formation Tested	Mississippi			
Tot. Liquid cc. _____	Elevation	2229'	Ft.		
Gravity _____ ° API @ _____ ° F.	Net Productive Interval	11'	Ft.		
Gas/Oil Ratio _____ cu. ft./bbl.	All Depths Measured From	Kelly Bushing			
RESISTIVITY _____	Total Depth	4724'	Ft.		
CHLORIDE CONTENT _____	Main Hole/Casing Size	7 7/8"			
Recovery Water _____ @ _____ ° F. _____ ppm	Drill Collar Length	1105'	WP I.D.	2.764"	
Recovery Mud _____ @ _____ ° F. _____ ppm	Drill Pipe Length	3554'	I.D.	3.826"	
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm	Packer Depth(s)	4684'	Ft.		
Mud Pit Sample _____ @ _____ ° F. _____ ppm	Depth Tester Valve	4670'	Ft.		
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm					
Mud Weight 9.8 vis 51 cp					

Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
				1/4"	3/4"

Recovered	Feet of	Gas to surface in 90 minutes.....	Mea. From Tester Valve
Recovered	65	Feet of Drilling mud	
Recovered	Feet of		
Recovered	Feet of		
Recovered	Feet of		

Remarks Tool opened for a 60 minute first flow with a weak blow, increasing to a strong blow in 3 minutes. Closed tool for 60 minute first closed in pressure. Reopened tool for 29 minute second flow with a strong blow. Closed tool for 61 minute second closed in pressure. Gas to surface while bleeding off pressure off the control head.

TEMPERATURE	Gauge No. 698		Gauge No. 697		Gauge No.		TIME	
	Depth:	4675' Ft.	Depth:	4720' Ft.	Depth:	Ft.		
Est. 117 °F.	12 Hour Clock		12 Hour Clock		Hour Clock		Tool = A.A.A.	
Actual °F.	Blanked Off NO		Blanked Off YES		Blanked Off		Opened 1:55 P.M.	
Actual °F.	Pressures		Pressures		Pressures		Bypass 5:25 P.M.	
	Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic	2414	2412	2438	2434			Minutes	Minutes
First Period	Flow Initial	18	23	30	37			
	Flow Final	27	25	40	42			
	Closed in	1146	1147	1160	1159		60	60
Second Period	Flow Initial	18	19	30	33			
	Flow Final	36	33	50	46		30	29
	Closed in	927	941	945	951		60	61
Third Period	Flow Initial							
	Flow Final							
Closed in								
Final Hydrostatic	2414	2404	2438	2424				

Legal Location Sec. - Twp. - Rng. 11 - 26 - 19
 Lease Name TITUS
 Well No. 1
 Test No. 1
 Tested Interval 4684' - 4724'
 County EDWARDS
 State KANSAS
 Lease Owner/Company Name GLEN RUPE

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 5/8"	2"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3554'	
Drill Collars	4 1/2" WP	2.764"	1105'	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	5'	
Dual CIP Valve	5"	.87"	5'	4665'
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	4670'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4675'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4684'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.37"	35'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4720'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				4724'

D.S.T. Report Distribution



A Division of Halliburton Company

FORM 1509R3

DUNCAN, OKLAHOMA 73533

Glen Rupe
Company Name - - Lease Owner

Requested Distribution of Completed D.S.T. Report Folder
for Ticket No. 790686

(This Order Must Be Filled Out and Signed By Company Representative)

Company
Orig. Chart

Glen Rupe

5
& Reports

ATT.

P.O. BOX
STREET & NO.
BUILDING

925 O.W. Harvey Bldg

CITY

STATE

Wichita, Kansas

ZIP CODE NUMBER

67202

Company



ATT.

P.O. BOX
STREET & NO.
BUILDING

Reports

CITY

STATE

ZIP CODE NUMBER

Company



ATT.

P.O. BOX
STREET & NO.
BUILDING

Reports

CITY

STATE

ZIP CODE NUMBER

Company



ATT.

P.O. BOX
STREET & NO.
BUILDING

Reports

CITY

STATE

ZIP CODE NUMBER

Company



ATT.

P.O. BOX
STREET & NO.
BUILDING

Reports

CITY

STATE

ZIP CODE NUMBER

Owner - Operator - or His Agent

SIGNED

W. G. Clement

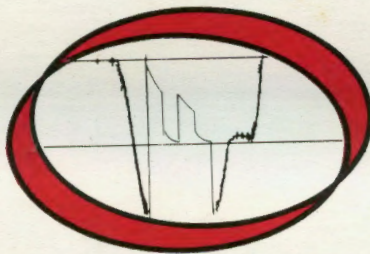
, Agent

Send 1st, 2nd and 3rd Copy with Charts

(Use Additional Sheets When Necessary)

Formation Testing Service Report

REC'D JAN 31 1975



Lease Name

Well No.

Test No.

Tested Interval

Lease Owner/Company Name

TITUS

1

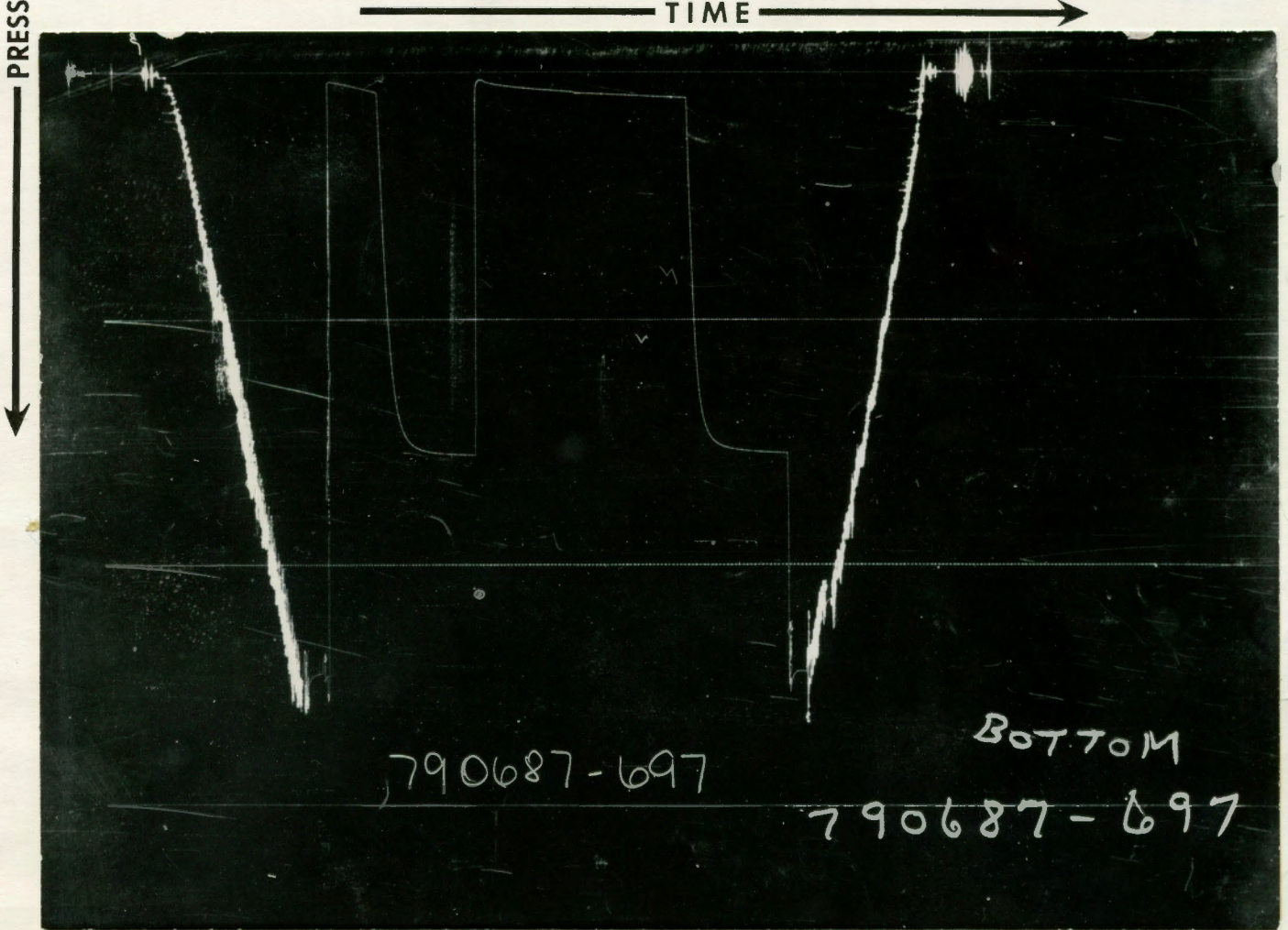
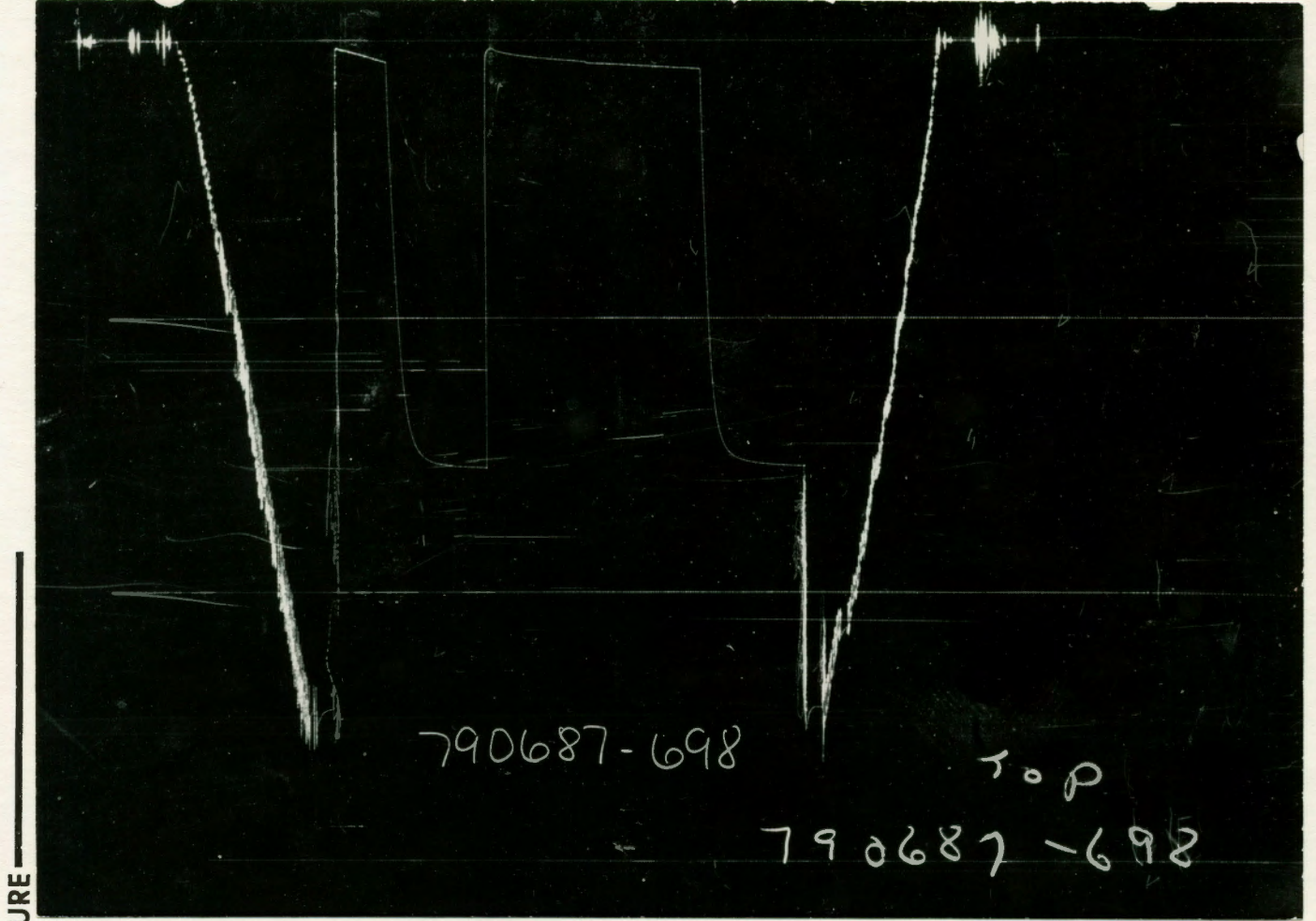
2

4713' - 4737'

GLEN RUPE

HALLIBURTON SERVICES

DUNCAN, OKLAHOMA



Each Horizontal Line Equal to 1000 p.s.i.

FLUID SAMPLE DATA				Date	1-26-75		Ticket Number	790687		
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job	OPEN HOLE TEST		Halliburton District	PRATT		
Recovery: Cu. Ft. Gas _____				Tester	MR. PARKER		Witness	MR. CLEMENTS		
cc. Oil _____				Drilling Contractor	RED TIGER DRILLING COMPANY		PW S			
cc. Water _____				EQUIPMENT & HOLE DATA						
cc. Mud _____				Formation Tested	Mississippi					
Tot. Liquid cc. _____				Elevation	2229'		Ft.			
Gravity _____ ° API @ _____ °F.	RESISTIVITY		CHLORIDE CONTENT	Net Productive Interval	24' 5'		Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.	Recovery Water _____ @ _____ °F. _____ ppm		Recovery Mud _____ @ _____ °F. _____ ppm	All Depths Measured From	Kelly Bushing					
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm	Recovery Mud _____ @ _____ °F. _____ ppm		Mud Pit Sample _____ @ _____ °F. _____ ppm	Total Depth	4737' Ft.					
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm	Mud Weight 9.8 vis 51 cp		Depth Tester Valve	4699'		Ft.				
Cushion				TYPE	AMOUNT		Depth Back Pres. Valve	Surface Choke	Bottom Choke	
Recovered					150	Feet of	Gas cut drilling mud.	1/4"	3/4"	
Recovered						Feet of	Gas Gr..7			
Recovered						Feet of				
Recovered						Feet of				
Recovered						Feet of				
Remarks				SEE PRODUCTION TEST DATA SHEET.....						
TEMPERATURE				Gauge No. 698	Gauge No. 697	Gauge No.	TIME			
Depth: 4704 Ft.				Depth: 4733 Ft.	Depth:					
Est. 117 °F.				12 Hour Clock	12 Hour Clock	Hour Clock	Tool _____ A.M.			
Actual °F.				Blanked Off No	Blanked Off Yes	Blanked Off	Opened 7:20 P.M.			
				Pressures	Pressures	Pressures	Opened A.M.			
				Field	Office	Field	Office	Field	Office	
				Initial Hydrostatic	2227	2436	2448	2451	Reported	Computed
				Flow Initial	27	32	40	45	Minutes	Minutes
				Flow Final	91	78	80	82		
				Closed in	1541	1543	1543	1549	30	30
				Flow Initial	36	96	40	123	60	60
				Flow Final	100	102	100	104	130	129
				Closed in	1531	1537	1533	1540	60	61
				Flow Initial						
				Flow Final						
				Closed in						
				Final Hydrostatic	2227	2425	2448	2438		

Legal Location
Sec. - Twp. - Rng.

11-26-19

Field Area
WILDCAT

County
EDWARDS

State
KANSAS

Lease Name
TITUS

Well No.
1

Test No.
2

Tested Interval
4713' - 4737'

Lease Owner/Company Name
GLEN RUPE

5

Casing perms. _____ Bottom choke 3/4" Surf. temp. _____ °F Ticket No. 790687
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED MERLA GAS ORIFICE

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
07:18						On bottom.
07:20						Opened tool with a strong blow.
07:50						Closed tool.
08:50						Reopened tool with a strong blow.
						Gas to surface on opening.
09:00		1/4"	11	32.4		
09:10		"	19	45.5		
09:20		"	24	53.2		
09:30		"	27	57.7		
09:40		"	30	61.9		
09:50		"	31	63.2		Caught gas sample.
09:53						Opened back to flow line.
10:00		"	35	69.0		
10:10		"	"	"		
10:20		"	36	70.3		
10:30		"	"	"		
10:40		"	38	73.0		
10:50		"	"	73.0		
11:00		"	39	74.4		Closed tool.
12:00						Off bottom.

Gauge No. 698			Depth 4704'			Clock No. 14117			12 hour		Ticket No. 790687			
First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	32	.000	78	.000	96	.000		102					
1	.0340	35	.0267	0.937	672	.1600*	57	.0336**	1.514	1069				
2	.0680	43	.0534	0.683	1093	.3000	69	.0605	1.269	1353				
3	.1020	51	.0801	0.550	1339	.4400	83	.0874	1.120	1452				
4	.1360	60	.1068	0.464	1446	.5800	88	.1142	1.014	1489				
5	.1700	69	.1335	0.403	1492	.7200	95	.1411	0.932	1506				
6	.2040	78	.1602	0.357	1513	.8600	102	.1680	0.865	1515				
7			.1869	0.320	1524			.1949	0.810	1521				
8			.2136	0.291	1531			.2218	0.763	1525				
9			.2403	0.267	1534			.2486	0.723	1528				
10			.2670	0.247	1537			.2755	0.687	1531				
11			.2937	0.229	1539			.3024	0.655	1532				
12			.3204	0.214	1541			.3293	0.626	1533				
13			.3471	0.201	1542			.3562	0.601	1535				
14			.3738	0.189	1543			.3830	0.577	1536				
15			.4000	0.179	1543			.4100	0.556	1537				

Gauge No. 697		Depth 4733'			Clock No. 3004X			12 hour		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
0	.000	45	.000	82	.000	123	.000		104	
1	.0335	43	.0269	0.928	679	.1619*	60	.0338**	1.514	1077
2	.0670	50	.0538	0.675	1112	.3035	71	.0608	1.270	1367
3	.1005	56	.0807	0.543	1353	.4451	85	.0878	1.121	1458
4	.1340	64	.1076	0.458	1457	.5867	91	.1148	1.014	1494
5	.1675	72	.1345	0.397	1499	.7283	98	.1418	0.932	1510
6	.2010	82	.1614	0.351	1519	.8700	104	.1688	0.866	1519
7			.1883	0.315	1530			.1958	0.811	1524
8			.2152	0.286	1538			.2228	0.764	1528
9			.2421	0.263	1541			.2499	0.723	1531
10			.2690	0.242	1544			.2769	0.687	1533
11			.2959	0.225	1546			.3039	0.656	1535
12			.3228	0.210	1547			.3309	0.627	1538
13			.3497	0.197	1548			.3579	0.601	1539
14			.3766	0.186	1549			.3849	0.578	1540
15			.4040	0.175	1549			.4120	0.556	1540
Reading Interval	5		4		21		4			Minutes

REMARKS:

* = 24 minutes ** = 5 minutes

TICKET NO.

790 687

BT GAUGE NO.

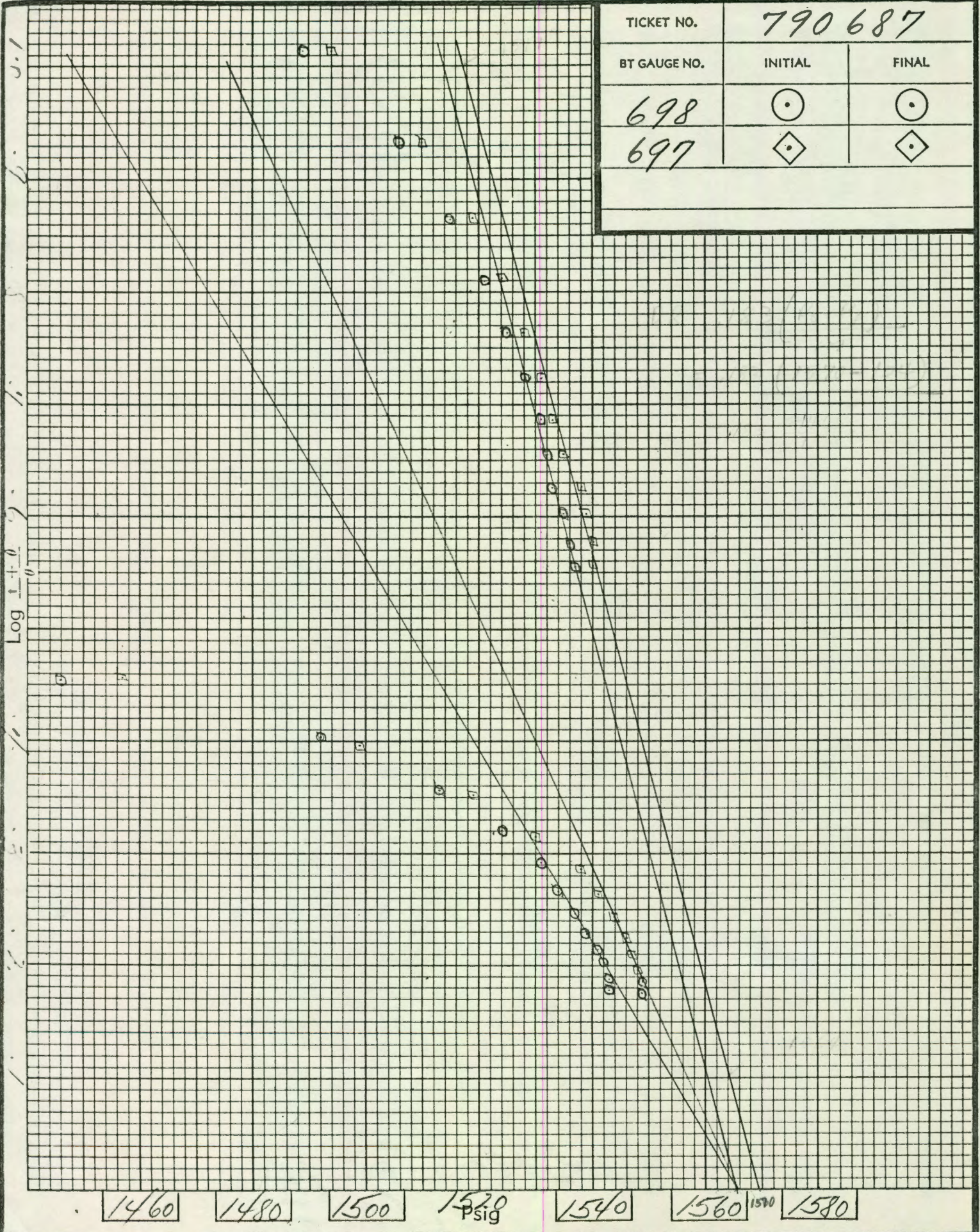
INITIAL

FINAL

698



697



EXTRAPOLATED PRESSURE GRAPH

Gas Production

B.T. Gauge Numbers			698	697	Ticket Number		790687
Initial Hydrostatic			2436	2451	Elevation		2229 ft.
Final Hydrostatic			2425	2438	Production Rate		1st Flow MCF
1st Flow	Initial	Time	32	45	2nd Flow		74.4 MCF
	Final	30	78	82	3rd Flow		MCF
	Closed In Pressure		60	1543	1549	Hole Size	
2nd Flow	Initial	Time	96	123 X	Footage Tested		5 ft.
	Final	129	102	104	Mud Weight		9.8 lbs./gal.
	Closed In Pressure		61	1537	1540	Gas Viscosity	
3rd Flow	Initial	Time			Gas Gravity Est.		0.70 —
	Final				Gas Compressibility		0.803 —
	Closed In Pressure					Temperature	
Extrapolated Static Pressure		1st	1566	1566			
		2nd	1566	1570			
		3rd					
Slope P/10		1st					
		2nd	1514	1518			
		3rd		1418			

Remarks:

SUMMARY

B.T. Gauge No. 698
Depth 4704

B.T. Gauge No. 697
Depth 4733

PRODUCT	EQUATION	FIRST	SECOND	THIRD	10' FIRST	5' SECOND	THIRD	UNITS
Transmissibility	$\frac{Kh}{\mu} = \frac{1637 Q_r ZT}{m}$ (1637) 74.4 (.803) (577) / 1418		352.33		398	398	351.42	md. ft. cp
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		5.990		6.766	6.766	5.975	md. ft.
Average Effective	$K = \frac{Kh}{h}$							md.
Permeability	$K_1 = \frac{Kh}{h_1}$ $h_1 = \frac{Kh}{K_1}$		1.198		.6766	1.353	1.195	md.
Indicated Flow Capacity	$(Kh)_s = \frac{3200 Q_r \mu ZT \log(0.472 b/r_w)}{P_s^2 - P_r^2}$		1.026		.9902	.9902	1.021	md. ft.
Damage Ratio	$DR = \frac{\text{Theo. Flow Cap}}{\text{Indicated Flow Cap}} \frac{Kh}{(Kh)_s}$		5.84		6.87	6.87	5.85	—
Indicated Flow Rate	$OF_1 = \frac{Q_r P_s^2}{P_s^2 - P_r^2}$ Max.		74.7				74.7	MCFD
	$OF_2 = \frac{Q_r P_s}{\sqrt{P_s^2 - P_r^2}}$ Min.		74.5				74.5	MCFD
Theoretical Potential Rate	$OF_3 = OF_1 DR$ Max.		436				437	MCFD
	$OF_4 = OF_2 DR$ Min.		435				436	MCFD
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$							ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		14.1				14.1	ft.
Potentiometric Surface *	$Pot. = (EI - GD) + (2.319 P_s)$		1157				1137	ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 3/8"	2"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"FH	3.826"	3583'	
Drill Collars .. WEIGHT PIPE	4 1/2"FH	2.764"	1105'	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	5'	
Dual CIP Valve	5"	.87"	5'	4694'
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	4699'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4704'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4713'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.37"	19'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4733'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				4737'



A Division of Halliburton Company

FORM 1509R3

DUNCAN, OKLAHOMA 73533

GLEN RUPE

Company Name - - Lease Owner

Requested Distribution of Completed D.S.T. Report Folder
for Ticket No. ~~790~~ **790687**

(This Order Must Be Filled Out and Signed By Company Representative)

Company **GLEN RUPE**
Orig. Chart

5

& Reports

ATT.

P.O. BOX
STREET & NO.
BUILDING

925 Q.W. GARVEY BLDG.

CITY
STATE

WICHITA, KANSAS

ZIP CODE NUMBER

67202

Company



ATT.

P.O. BOX
STREET & NO.
BUILDING

Reports

CITY
STATE

ZIP CODE NUMBER

Company



ATT.

P.O. BOX
STREET & NO.
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CITY
STATE

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Company



ATT.

P.O. BOX
STREET & NO.
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ATT.

P.O. BOX
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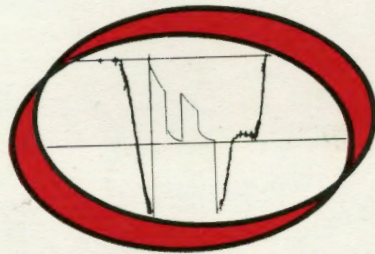
Owner - Operator - or His Agent

SIGNED _____, Agent

Send 1st, 2nd and 3rd Copy with Charts
(Use Additional Sheets When Necessary)

Formation Testing Service Report

REC'D JAN 31 1975



TITUS
Lease Name

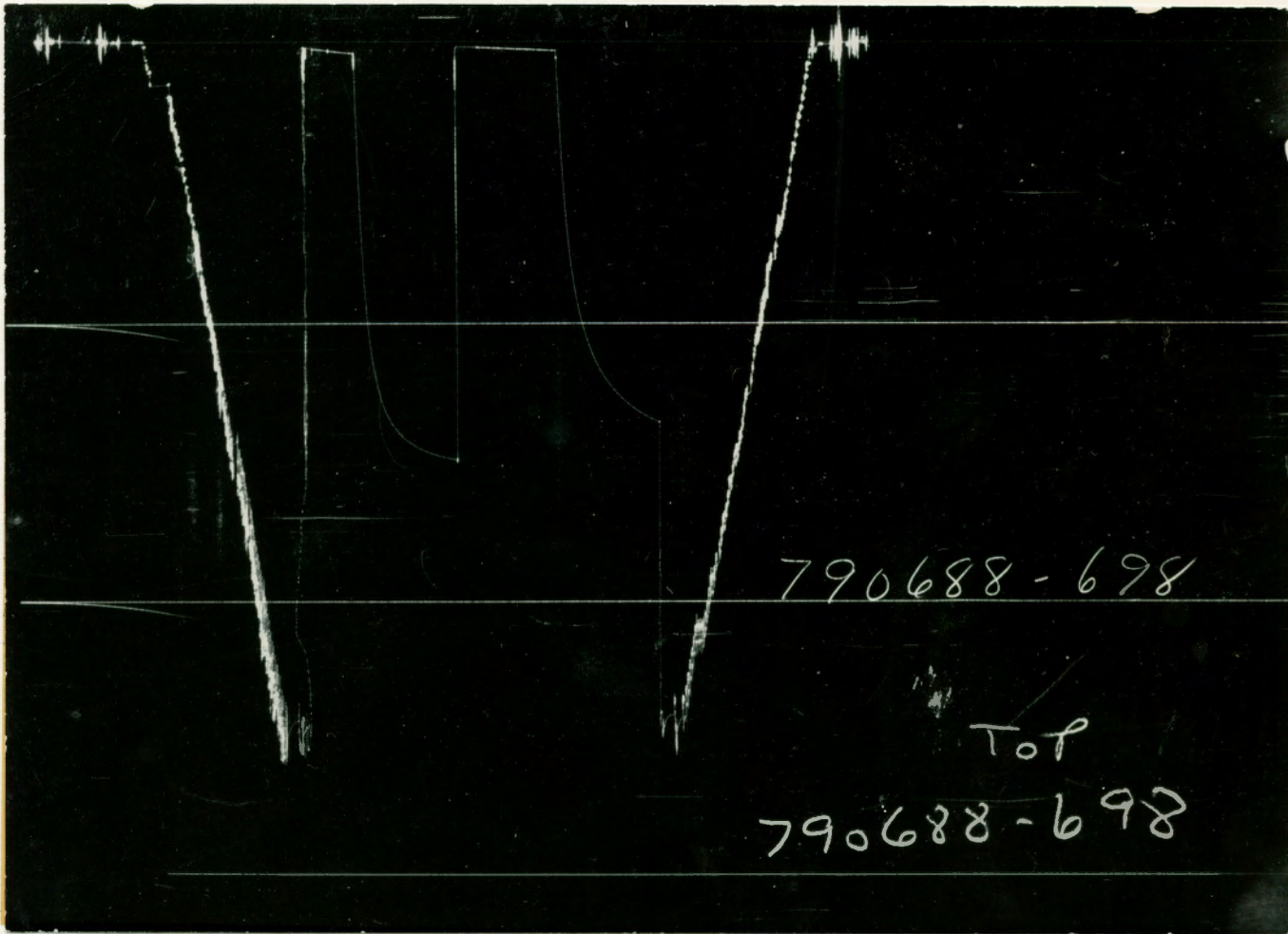
1
Well No.

3
Test No.

4736' - 4743'
Tested Interval

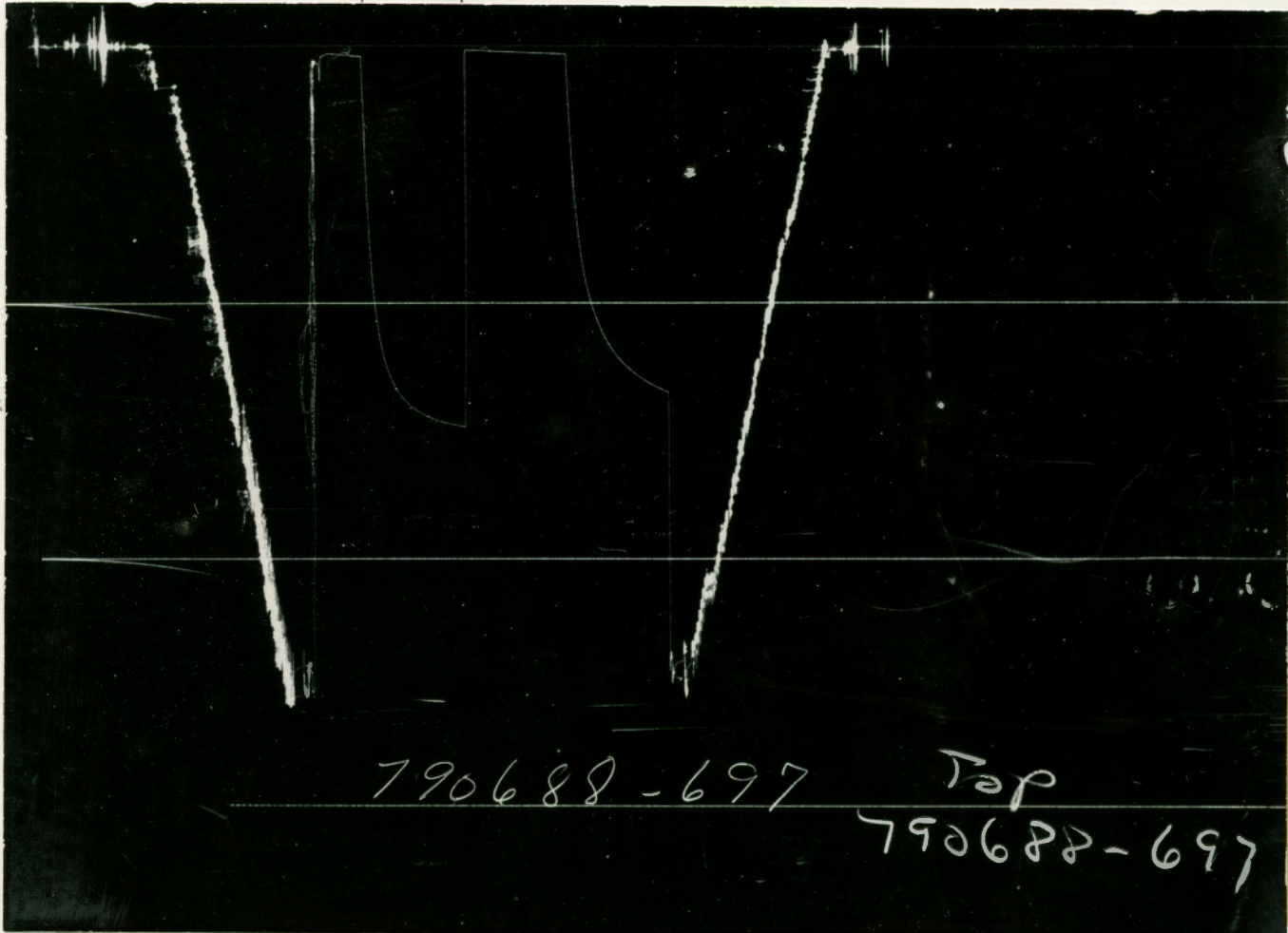
GLEN RUPE
Lease Owner/Company Name

HALLIBURTON SERVICES
DUNCAN, OKLAHOMA



↑
PRESSURE

TIME →



↑
PRESSURE

Each Horizontal Line Equal to 1000 p.s.i.

FLUID SAMPLE DATA				Date	1-26-75 <th>Ticket Number</th> <td>790688 </td>	Ticket Number	790688
Sampler Pressure _____ P.S.I.G. at Surface	Recovery: Cu. Ft. Gas _____		Kind of Job		OPEN HOLE	Halliburton District	PRATT
cc. Oil _____	cc. Water _____		Tester		MR. PARKER	Witness	MR. CLEMENTS
cc. Mud _____	Tot. Liquid cc. _____		Drilling Contractor		RED TIGER DRILLING COMPANY DR S		
Gravity _____ ° API @ _____ °F.	Gas/Oil Ratio _____ cu. ft./bbl.		EQUIPMENT & HOLE DATA				
RESISTIVITY _____	CHLORIDE CONTENT _____		Formation Tested		Mississippi		
Recovery Water _____ @ _____ °F. _____ ppm	Recovery Mud _____ @ _____ °F. _____ ppm		Elevation		2229'	Ft.	
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm	Mud Pit Sample _____ @ _____ °F. _____ ppm		Net Productive Interval		7'	Ft.	
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm	Mud Weight 9.8 vis 46 cp		All Depths Measured From		Kelly Bushing		
			Total Depth		4743'	Ft.	
			Main Hole/Casing Size		7 7/8"		
			Drill Collar Length		1105' WP	I.D.	2.764"
			Drill Pipe Length		3606'	I.D.	3.826"
			Packer Depth(s)		4736'	Ft.	
			Depth Tester Valve		4722'	Ft.	

TYPE	AMOUNT	Depth Back Ft.	Pres. Valve	Surface Choke	Bottom Choke
Cushion				1/4"	3/4"
Recovered	65	Feet of slightly gas cut mud			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Remarks	SEE PRODUCTION TEST DATA SHEET				

TEMPERATURE	Gauge No.	698	Gauge No.	697	Gauge No.		TIME	
	Depth:	4727 Ft.	Depth:	4739 Ft.	Depth:		Hour Clock	Tool
Est. 117 °F.	12 Hour Clock		12 Hour Clock		Hour Clock		Opened 00:25	A.M.
	Blanked Off NO		Blanked Off YES		Blanked Off		Opened	A.M.
Actual °F.	Pressures		Pressures		Pressures		Bypass 3:55	P.M.
	Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic	2433	2444	2448	2446			Minutes	Minutes
First Period	Flow Initial	9	24	20	74			
	Flow Final	36	42	40	40		30	29
	Closed in	1485	1492	1493	1490		60	61
Second Period	Flow Initial	18	20	10	15			
	Flow Final	36	32	30	31		60	60
	Closed in	1366	1356	1372	1353		60	60
Third Period	Flow Initial							
	Flow Final							
	Closed in							
Final Hydrostatic	2433	2420	2448	2422				

Legal Location Sec. - Twp. - Rng. 11-26-19
 Lease Name TITUS
 Well No. 1
 Test No. 3
 Tested Interval 4736' - 4743'
 County EDWARDS
 State KANSAS
 Lease Owner/Company Name GLEN RUPE

Gauge No. 698		Depth 4727'		Clock No. 4117		12 hour		Ticket No. 790688						
First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	24		.000	42	.000	20	.000	32					
1	.0276	24*		.0461	975**	.0658	20	.0400	656					
2	.0621	29		.0857	1222	.1317	23	.0800	934					
3	.0966	33		.1252	1333	.1975	25	.1200	1069					
4	.1310	36		.1648	1388	.2633	28	.1600	1157					
5	.1655	39		.2043	1424	.3292	30	.2000	1215					
6	.2000	42		.2438	1477	.3950	32	.2400	1257					
7				.2834	1463			.2800	1293					
8				.3229	1476			.3200	1317					
9				.3625	1486			.3600	1339					
10				.4020	1492			.4000	1356					
11														
12														
13														
14														
15														

Gauge No. 697		Depth 4739'		Clock No. 3004		hour 12			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	74		.000	40	.000	15	.000	31
1	.0269	74*		.0467	970**	.067	18	.0401	668
2	.0605	30		.0867	1219	.134	21	.0802	939
3	.0941	33		.1268	1327	.201	24	.1203	1072
4	.1278	36		.1668	1386	.268	26	.1604	1156
5	.1614	39		.2068	1421	.335	29	.2005	1215
6	.1950	40		.2469	1445	.402	31	.2406	1257
7				.2869	1462			.2807	1289
8				.3269	1474			.3208	1315
9				.3669	1482			.3609	1335
10				.4070	1490			.4010	1353
11									
12									
13									
14									
15									

Reading Interval 5 6 10 6 Minutes

REMARKS: * First interval equal to 4 minutes **-7 minutes.

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 5/8"	2"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3606'	
Drill Collars	4 1/2"	2.764"	1105' WP	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	5'	
Dual CIP Valve	5"	.87"	5'	4717'
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	4722'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4727'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4736'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.37"	2'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4739'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				4743'

D.S.T. Report Distribution



A Division of Halliburton Company

FORM 1509R3

DUNCAN, OKLAHOMA 73533

Glen Rupe

Company Name - - Lease Owner

Requested Distribution of Completed D.S.T. Report Folder
for Ticket No. 790688

(This Order Must Be Filled Out and Signed By Company Representative)

Company Glen Rupe
Orig. Chart

5

& Reports

ATT.

P.O. BOX STREET & NO. 9250 W. Harvey Bldg
BUILDING
CITY Wichita STATE Kansas
ZIP CODE NUMBER 67202

Company



ATT.

Reports

P.O. BOX STREET & NO.
BUILDING

CITY STATE

ZIP CODE NUMBER

Company



ATT.

Reports

P.O. BOX STREET & NO.
BUILDING

CITY STATE

ZIP CODE NUMBER

Company



ATT.

Reports

P.O. BOX STREET & NO.
BUILDING

CITY STATE

ZIP CODE NUMBER

Company



ATT.

Reports

P.O. BOX STREET & NO.
BUILDING

CITY STATE

ZIP CODE NUMBER

Owner - Operator - or His Agent

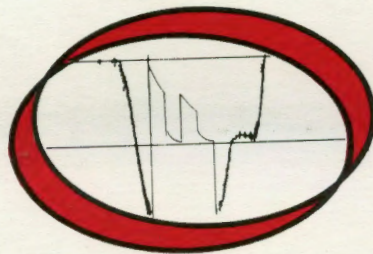
SIGNED W.B. Chesser, Agent

Send 1st, 2nd and 3rd Copy with Charts

(Use Additional Sheets When Necessary)

Formation Testing Service Report

REC'D JAN 31 1978



TIJUS
Lease Name

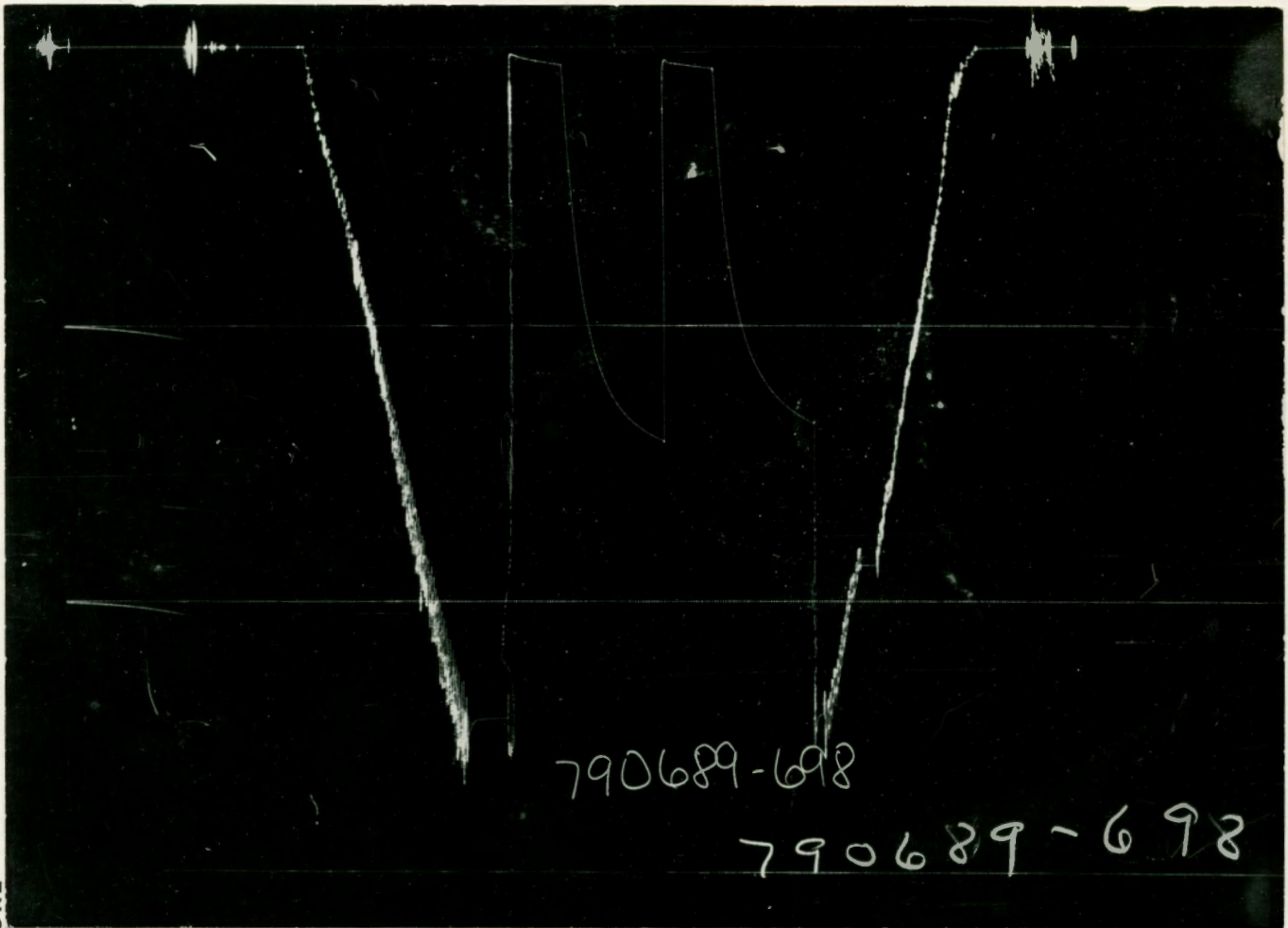
1
Well No.

4
Test No.

4737' - 4753'
Tested Interval

GLEN RUPE
Lease Owner/Company Name

PRESSURE

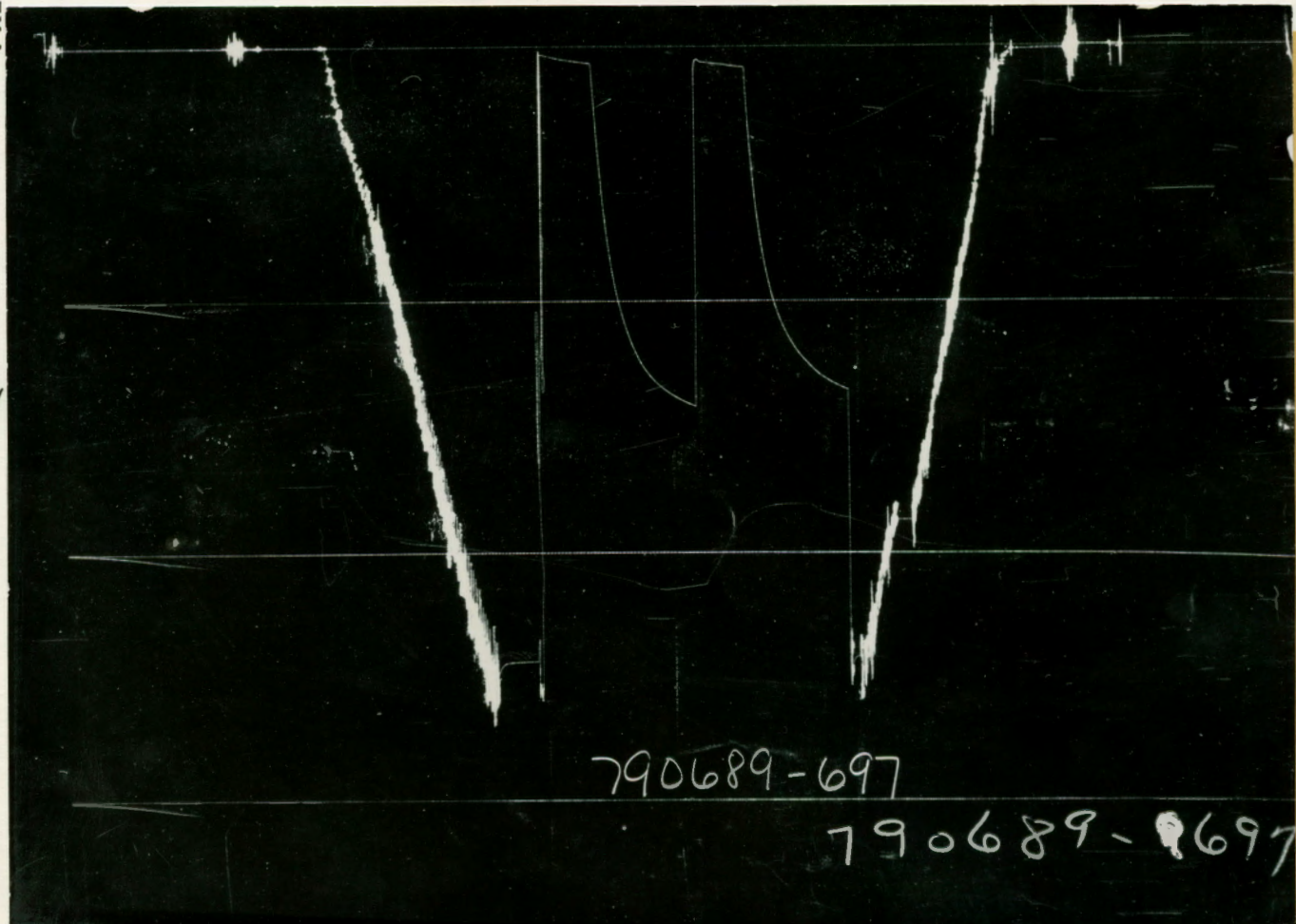


790689-698

790689-698

TIME

PRESSURE



790689-697

790689-697

Each Horizontal Line Equal to 1000 p.s.i.

Gauge No. 698			Depth 4728'			Clock No. 14117			12 hour		Ticket No. 790689					
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
0	.000	39	.000		65	.000	86	.000		80						
1	.0397*	37	.0464**		626	.0332	60	.0396		609						
2	.0727	45	.0861		916	.0664	65	.0792		875						
3	.1058	51	.1258		1080	.0996	69	.1188		1030						
4	.1389	55	.1656		1195	.1328	73	.1584		1130						
5	.1719	61	.2053		1266	.1660	76	.1980		1197						
6	.2050	65	.2450		1317	.1990	80	.2376		1246						
7			.2847		1353			.2772		1284						
8			.3245		1380			.3168		1311						
9			.3642		1400			.3564		1335						
10			.4040		1417			.3980		1352						
11																
12																
13																
14																
15																

Gauge No. 697			Depth 4749'			Clock No. 3004 X			12 hour		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
0	.000	34	.000		66	.000	85	.000		83	
1	.0395*	40	.0466**		637	.0334	62	.0400		615	
2	.0724	47	.0865		922	.0668	67	.0800		880	
3	.1053	53	.1264		1088	.1002	70	.1200		1036	
4	.1382	58	.1664		1197	.1336	75	.1600		1131	
5	.1711	62	.2063		1270	.1670	79	.2000		1198	
6	.2040	66	.2462		1319	.2000	83	.2400		1245	
7			.2862		1354			.2800		1285	
8			.3261		1380			.3202		1314	
9			.3660		1401			.3600		1337	
10			.4060		1417			.4000		1353	
11											
12											
13											
14											
15											
Reading Interval	5		6			5		6			Minutes

REMARKS: * = 6 minutes ** = 7 minutes

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 5/8"	2"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"FH	3.826"	3607'	
Drill Collars WEIGHT PIPE.....	4 1/2"FH	2.764"	1105'	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	5'	
Dual CIP Valve	5"	.87"	5'	4718'
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	4723'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4728'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4737'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.37"	11'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4749'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				4753'

D.S.T. Report Distribution



A Division of Halliburton Company

FORM 1509R3

DUNCAN, OKLAHOMA 73533

Glen Rupe

Company Name - - Lease Owner

Requested Distribution of Completed D.S.T. Report Folder
for Ticket No. 790689

(This Order Must Be Filled Out and Signed By Company Representative)

Company
Orig. Chart

Glen Rupe

& Reports

ATT.

P.O. BOX
STREET & NO.
BUILDING

CITY
STATE

ZIP CODE NUMBER

925 O.W. Harvey Bldg
Wichita Kansas
67202

Company



ATT.

P.O. BOX
STREET & NO.
BUILDING

CITY
STATE

ZIP CODE NUMBER

Reports

Company



ATT.

P.O. BOX
STREET & NO.
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Company



ATT.

P.O. BOX
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P.O. BOX
STREET & NO.
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ZIP CODE NUMBER

Reports

Owner - Operator - or His Agent

SIGNED

W. G. Clemens

, Agent

Send 1st, 2nd and 3rd Copy with Charts

(Use Additional Sheets When Necessary)