

FLUID SAMPLE DATA				Date	Ticket Number
Sampler Pressure _____ P.S.I.G. at Surface		Date		9-10-77	254851
Recovery: Cu. Ft. Gas _____		Kind of Job		STRADDLE	Halliburton District
cc. Oil _____		WICHITA			
cc. Water _____		Tester		C. P. HAMMONDS	Witness J. STELLMAN
cc. Mud _____		Drilling Contractor		RED TIGER DRILLING COMPANY TH S	
Tot. Liquid cc. _____		EQUIPMENT & HOLE DATA			
Gravity _____ ° API @ _____ ° F.		Formation Tested		Mississippian	
Gas/Oil Ratio _____ cu. ft./bbl.		Elevation		2337' KB	
RESISTIVITY _____		Net Productive Interval		1'	
CHLORIDE CONTENT _____		All Depths Measured From		Kelly Bushing	
Recovery Water @ _____ ° F. _____ ppm		Total Depth		4556'	
Recovery Mud @ _____ ° F. _____ ppm		Main Hole/Casing Size		7 7/8"	
Recovery Mud Filtrate @ _____ ° F. _____ ppm		Drill Collar Length		868' FW I.D. 2.764" FW	
Mud Pit Sample @ _____ ° F. _____ ppm		Drill Pipe Length		3562' I.D. 3.826"	
Mud Pit Sample Filtrate @ _____ ° F. _____ ppm		Packer Depth(s)		4457' - 4463' - 4471'	
Mud Weight 9.1 vis 47 sec		Depth Tester Valve		4440'	
Cushion		TYPE		AMOUNT	
Recovered 25		Feet of		mud with oil specks.	
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Remarks		See Production Test Data Sheet . . .			
TEMPERATURE		Gauge No. 690		Gauge No. 228	
Depth: 4441 Ft.		Depth: 4552 Ft.		Gauge No. _____	
12 Hour Clock		12 Hour Clock		TIME	
Est. °F. Blanked Off NO		Blanked Off YES		Tool _____ A.M.	
Actual °F. Pressures		Pressures		Opened 0430 P.M.	
Field Office		Field Office		A.M.	
Initial Hydrostatic 2287 2246		2304		Bypass 0630 P.M.	
Flow Initial 10 12		HYDROSTATIC		Reported _____ Computed _____	
Final 20 18		RELEASE:		Minutes Minutes	
Closed in 1276 1303		1499		30 30	
Flow Initial 20 24				30 30	
Final 41 32					
Closed in 102 102					
Flow Initial _____					
Final _____					
Closed in _____					
Final Hydrostatic 2267 2239		2295			

Legal Location Sec. - Twp. - Rng. 24 - 22 - 23W
 Lease Name MELTY
 Well No. 2
 Test No. 1
 Tested Interval 4463' - 4471'
 County HODGEMAN
 State KANSAS
 L. G. STEPHENSON & COMPANY, INCORPORATED
 Lease Owner/Company Name

FORMATION TEST DATA

5

Gauge No. 690		Depth 4447			Clock No. 17417			12 hour		Ticket No. 254851	
First Flow Period		First Closed In Pressure			Second Flow Period			Second Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
0	.0000	12		18	.0000	24		.0000		32	
1	.0337	12		29	.0340	25		.1970		102	
2	.0673	12		49	.0680	27					
3	.1010	13		80	.1020	28					
4	.1346	14		127	.1360	29					
5	.1683	15		409	.1700	30					
6	.2020	18		743	.2040	32					
7				1108							
8				1237							
9				1303							
10											
11											
12											
13											
14											
15											

Gauge No. 228		Depth 4552			Clock No. 17416			12 hour		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
Reading Interval		5			5					Minutes
REMARKS:										

HYDROSTATIC RELEASE: 1499

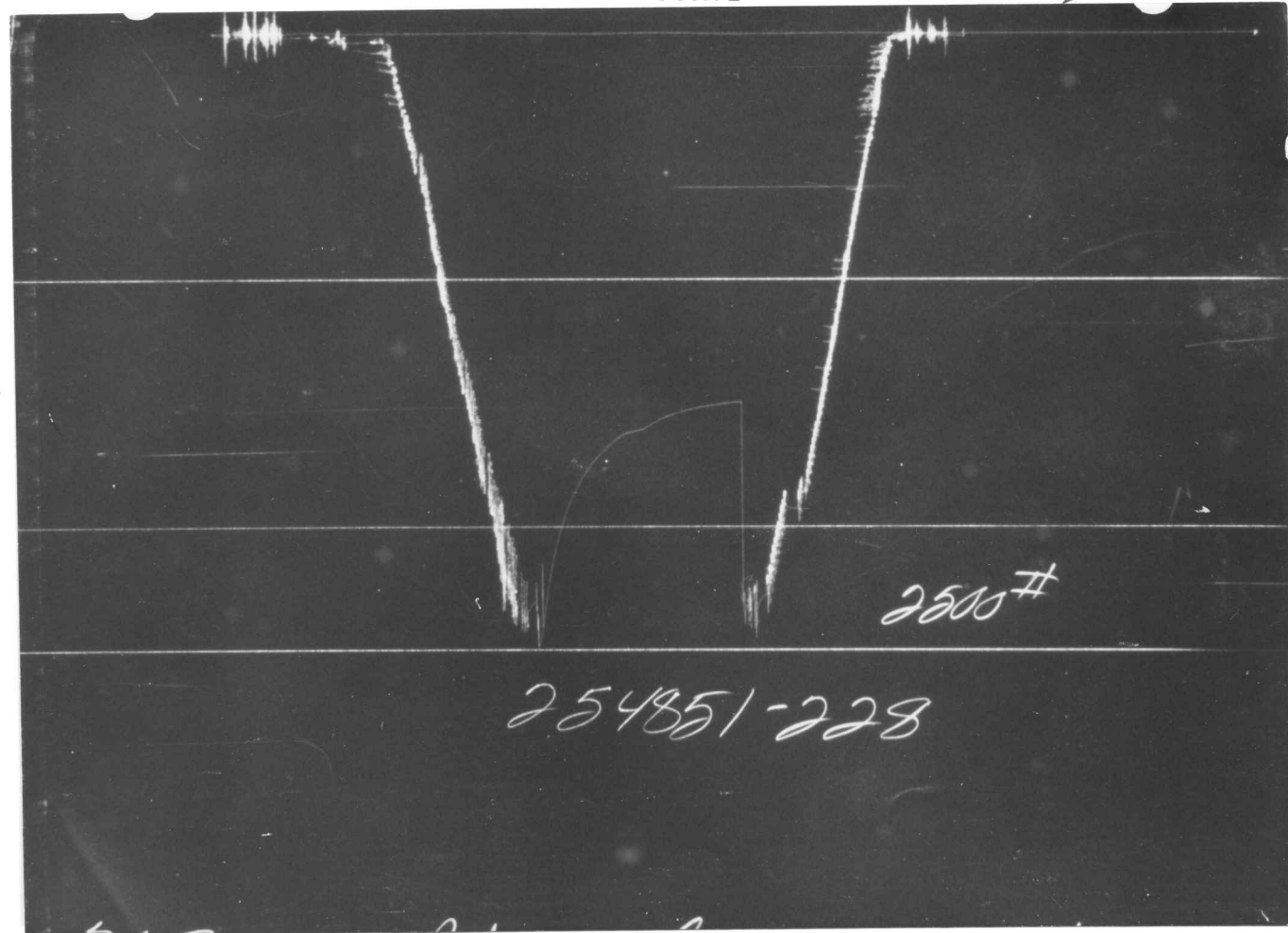
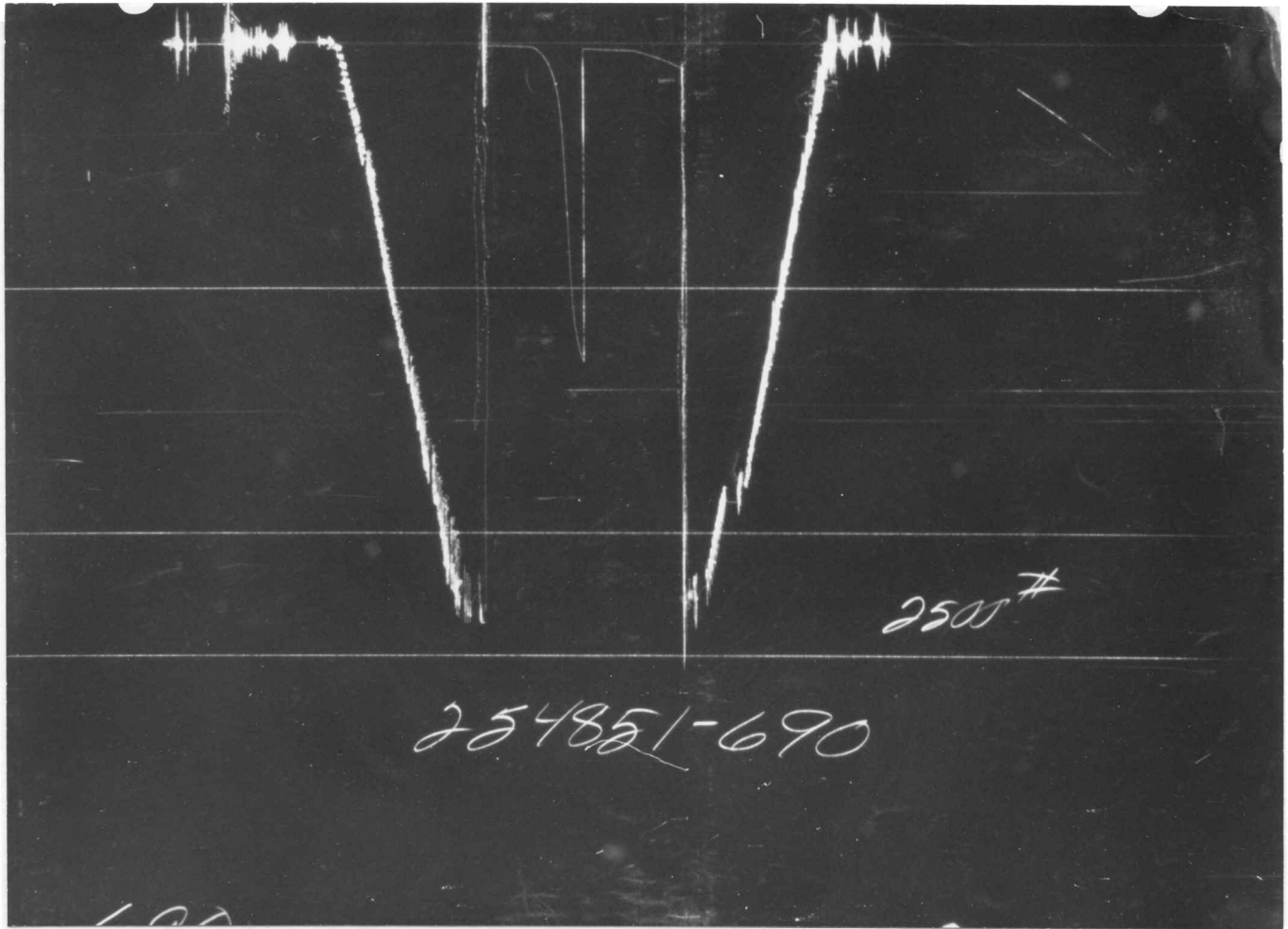
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	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	3"	1'	4373'
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3562'	
Drill Collars Flex Weight	4.5"	2.764"	868'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	6'	4434'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4440'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4441'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	2.80'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	5.85'	4457'
Distributor				
Packer Assembly	6.75"	1.53"	5.85'	4463'
Flush Joint Anchor	5"	3.84"	2'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6.75"	1.53"	5.85'	4471'
XXXXXXXX Blanked Off	5"		.50'	
Packer Assembly				
Anchor Pipe Safety Joint				
Change Over	5.75"	2.75"	3.50'	
Side Wall Anchor				
Flex Weight	4.5"	2.764"	63'	
Drill Collars				
Flush Joint Anchor	5"	3.84"	12'	
Blanked-Off B.T. Running Case	5"	2.75"	4'	4552'
Total Depth				4556'

5

PRESSURE



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

FLUID SAMPLE DATA		Date	9-10-77 ✓	Ticket Number	254852
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job	OPEN HOLE	Halliburton District	HAYS	
Recovery: Cu. Ft. Gas _____	Tester	STRADDLE	MR. HAMMONDS	Witness	MR. STILLMAN
cc. Oil _____	Drilling Contractor	RED TIGER DRILLING COMPANY	BC S		
cc. Water _____	EQUIPMENT & HOLE DATA				
cc. Mud _____	Formation Tested	Mississippi			
Tot. Liquid cc. _____	Elevation	2337'	KB	Ft.	
Gravity <u>Corr. 36</u> ° API @ <u>60</u> °F.	Net Productive Interval	3'		Ft.	
Gas/Oil Ratio _____ cu. ft./bbl.	All Depths Measured From	Kelly Bushing			
	Total Depth	4556'		Ft.	
Recovery Water _____ @ _____ °F. _____ ppm	Main Hole/Casing Size	7 7/8" Hole			
Recovery Mud _____ @ _____ °F. _____ ppm	Drill Collar Length	868' WP	I.D.	2.764"	
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm	Drill Pipe Length	3567'	I.D.	3.826"	
Mud Pit Sample _____ @ _____ °F. _____ ppm	Packer Depth(s)	4462' - 4468' - 4476' Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm	Depth Tester Valve	4441'		Ft.	
Mud Weight <u>9.1</u> vis <u>47</u> sec					

Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
			Ft.	1/4"	3/4"
Recovered	185	Feet of	Gas cut oil		
Recovered	30	Feet of	Heavily oil cut mud		
Recovered	62	Feet of	Heavily mud cut oil		
Recovered	1148	Feet of	Salt water which was oil spotted		
Recovered		Feet of			
Remarks	SEE PRODUCTION TEST DATA SHEET.				

TEMPERATURE	Gauge No. 690	Gauge No. 228	Gauge No.	TIME
	Depth: 4446' Ft.	Depth: 4552' Ft.	Depth: _____ Ft.	
Calc. Est. 110 °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 1045 A.M. P.M.
Actual °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Opened 1445 A.M. P.M.
	Pressures		Pressures	
	Field	Office	Field	Office
Initial Hydrostatic	2287	2237	2313	
First Period	Flow Initial	51	58	
	Flow Final	366	375	HYDROSTATIC
	Closed in	1378	1378	RELEASE: 1463
Second Period	Flow Initial	407	406	
	Flow Final	548	552	
	Closed in	1357	1370	
Third Period	Flow Initial			
	Flow Final			
Final Hydrostatic	2227	2213	2291	

Legal Location Sec. - Twp. - Rng. _____

Lease Name Washburn

Well No. 2

Test No. 2

Field Area 27 - 22 - 21

Med. From Tester Valve _____

County HODGEMAN

State KANSAS

Lease Owner/Company Name L. G. STEPHENSON

Tested Interval 4468' - 4476'

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Gauge No. 690		Depth 4446'		Clock No. 17417		12 hour		Ticket No. 254852	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$	
0	.0000	.0000	375	.0000	406	.0000	552		
1	.0727	.0199	1246**	.0729	429*	.0200	1249**		
2	.1387	.0465	1313	.1391	456	.0466	1309		
3	.2048	.0731	1334	.2053	481	.0733	1330		
4	.2709	.0997	1346	.2715	504	.0999	1341		
5	.3369	.1262	1354	.3378	529	.1266	1348		
6	.4030	.1528	1359	.4040	552	.1532	1353		
7		.1794	1362			.1798	1356		
8		.2060	1366			.2065	1359		
9		.2325	1368			.2331	1361		
10		.2591	1371			.2598	1363		
11		.2857	1372			.2864	1365		
12		.3123	1374			.3131	1367		
13		.3388	1375			.3397	1368		
14		.3654	1377			.3664	1369		
15		.3920	1378			.3930	1370		

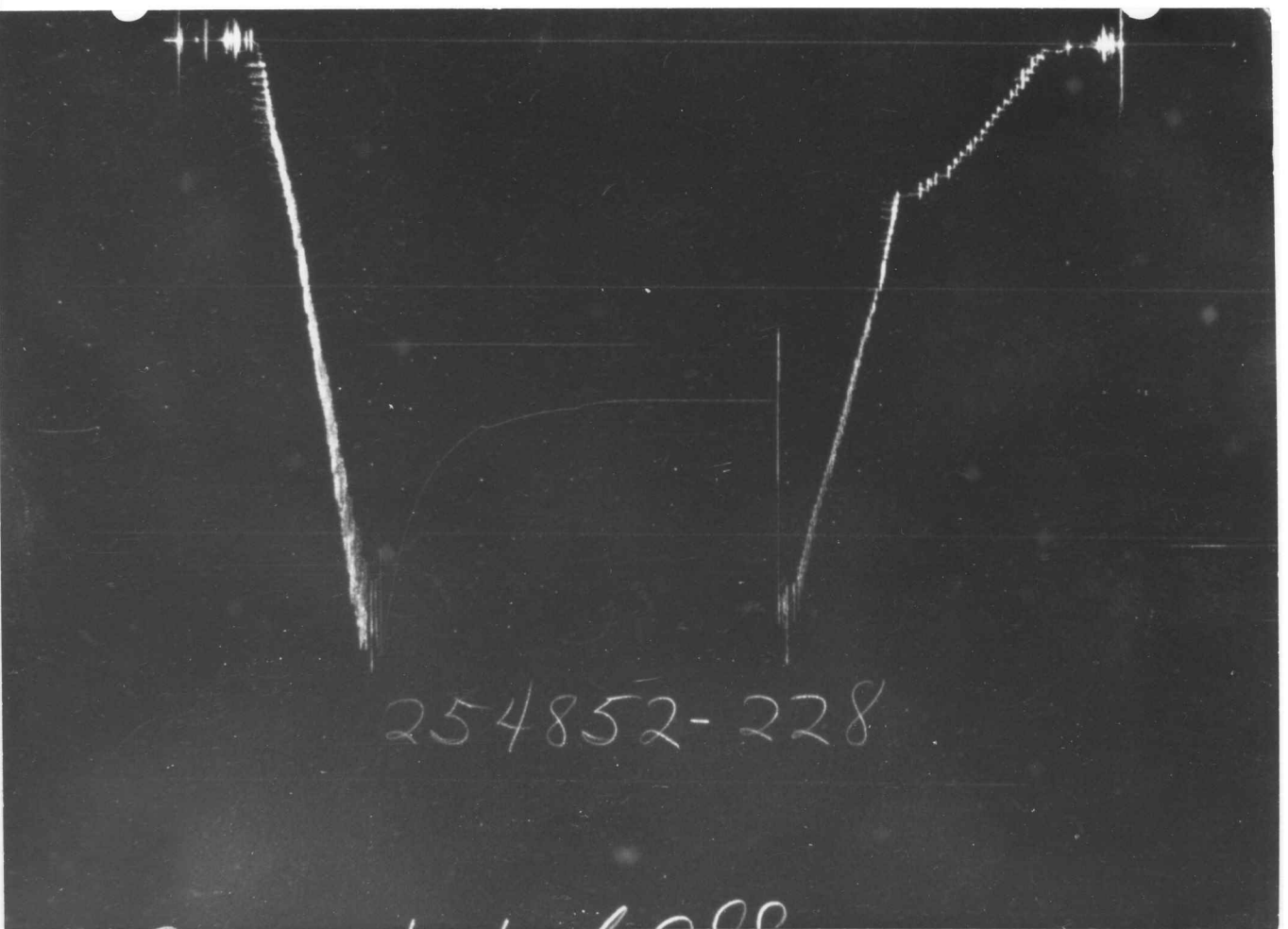
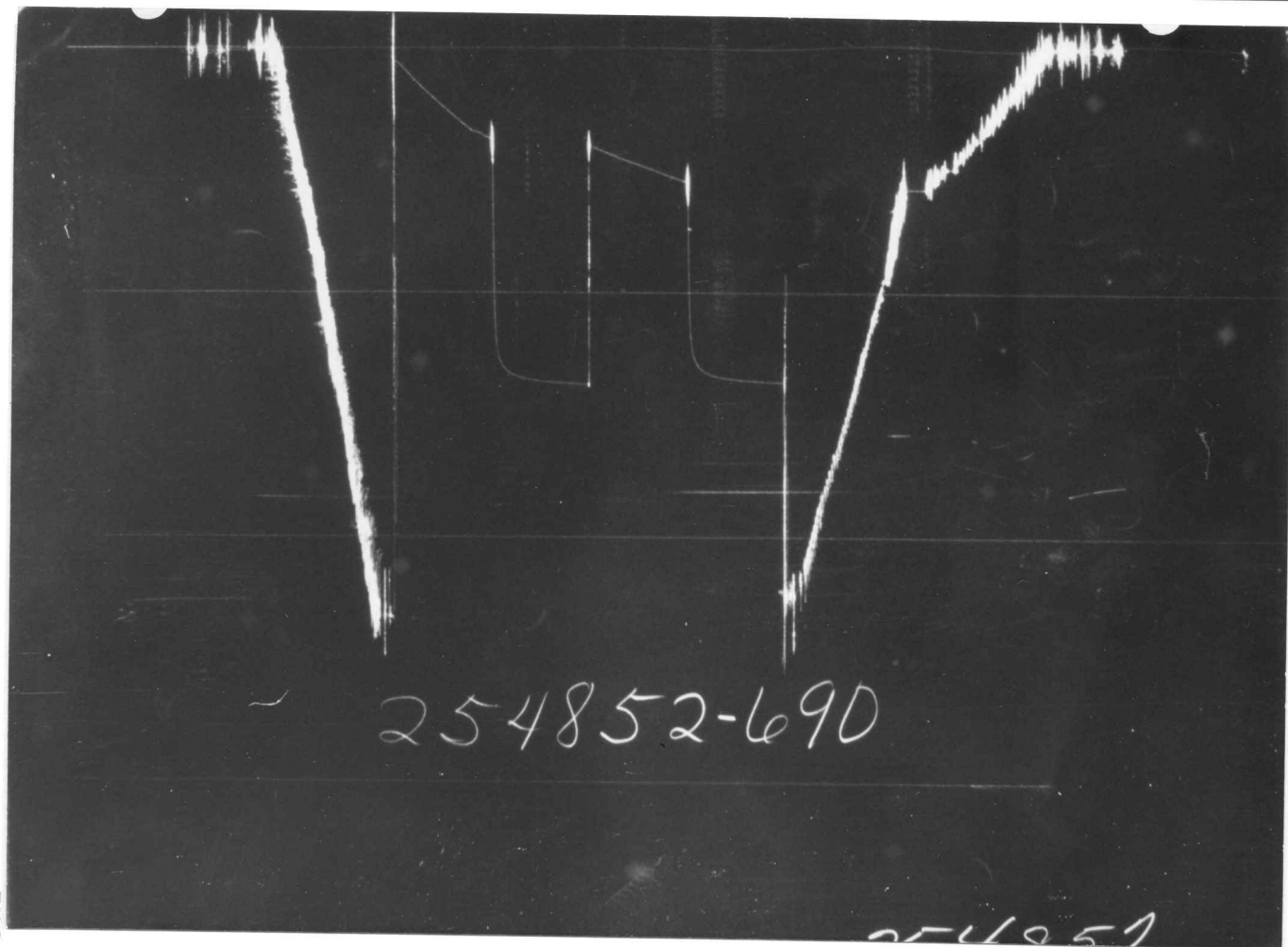
Gauge No. 228		Depth 4552'		Clock No. 17416		12 hour			
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.		
$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$			
0									
1									
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10									
11									
12									
13									
14									
15									
Reading Interval	10					4			Minutes

REMARKS: *Interval = 11 minutes **Interval = 3 minutes



	O. D.	I. D.	LENGTH	DEPTH
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Reversing Sub	5.75"	2.75"	1'	4378'
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Drill Collars	4.5" WP	2.764"	868'	
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Blanked off	5"	-	.50'	
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Change overs	5.75"	2.75"	3.50'	
Side Wall Anchor				
Drill Collars	4.5" WP	2.764"	63'	
Flush Joint Anchor	5"	3"	7'	
Blanked-Off B.T. Running Case	5"	2.75"	4'	4552'
Total Depth				4556'

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