

FLUID SAMPLE DATA		Date	10-16-72	Ticket Number	500705
Sampler Pressure _____ P.S.I.G. at Surface	Recovery: Cu. Ft. Gas _____	Kind of Job	OPEN HOLE	Halliburton District	EL DORADO
cc. Oil _____	cc. Water _____	Tester	MR. GASPERSON	Witness	MR. MILLER
cc. Mud _____	Tot. Liquid cc. _____	Drilling Contractor	WHITE & ELLIS DRILLING COMPANY IC S		
Gravity _____ ° API @ _____ ° F.	Gas/Oil Ratio _____ cu. ft./bbl.	EQUIPMENT & HOLE DATA			
	RESISTIVITY _____ CHLORIDE CONTENT _____	Formation Tested	Viola		
Recovery Water _____ @ _____ ° F. _____ ppm	Recovery Mud _____ @ _____ ° F.	Elevation	1363'	GL	Ft.
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm	Mud Pit Sample _____ @ _____ ° F.	Net Productive Interval	10'		Ft.
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm	Mud Weight _____ 9.6 vis _____ 41 cp	All Depths Measured From	1368'	KB	
		Total Depth	2460'		Ft.
		Main Hole/Casing Size	7 7/8"		
		Drill Collar Length	201'	I.D.	2 1/4"
		Drill Pipe Length	1006-1225'	I.D.	4,276"-3,826"
		Packer Depth(s)	2450'		Ft.
		Depth Tester Valve	2440'		Ft.

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

Recovered	90	Feet of Oil	Meas. From Tester Valve
Recovered	20	Feet of Heavy oil cut mud	
Recovered		Feet of	
Recovered		Feet of	
Recovered		Feet of	

Remarks Opened tool for 30 minute first flow with a weak blow throughout test. Closed tool for 30 minute initial closed in pressure. Reopened tool for 61 minute second flow with a weak blow throughout test. Closed tool for 29 minute second closed in pressure.

TEMPERATURE	Gauge No. 737	Gauge No. 397	Gauge No.	TIME
	Depth: 2442' Ft.	Depth: 2456' Ft.	Depth: _____ Ft.	
Est. 75 °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 6:00 PM A.M.
Actual °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed 8:30 PM A.M.
	Pressures		Pressures	
	Field	Office	Field	Office
Initial Hydrostatic	1227	1234	-	1248
First Period	Flow Initial	0	-	14
	Flow Final	17	-	27
	Closed in	266	-	277
Second Period	Flow Initial	17	-	36
	Flow Final	43	-	51
	Closed in	257	-	259
Third Period	Flow Initial			
	Flow Final			
Final Hydrostatic	-	1228	-	1240

Legal Location Sec. - Twp. - Rng. 32 - 25S - 5E
 Lease Name MOLIER
 Well No. 32
 Test No. 1
 Tested Interval 2450' - 2460'
 Field Area EL DORADO
 County BUTLER
 State KANSAS
 Lessee Owner/Company Name CITTES SERVICE OIL COMPANY

Gauge No. 737		Depth 2442'		Clock No. ???		12 hour		Ticket No. 500705	
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"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0 .000	7	.000	21	.000	27	.000	45		
1 .0337	11	.0203	78	.0738	27*	.0137	75**		
2 .0674	14	.0406	163	.1408	32	.0341	136		
3 .1011	15	.0609	200	.2079	35	.0546	175		
4 .1348	17	.0812	221	.2749	38	.0751	199		
5 .1685	19	.1015	236	.3419	41	.0956	214		
6 .2020	21	.1218	245	.4090	45	.1161	226		
		.1421	254			.1366	234		
		.1624	260			.1570	241		
		.1827	264			.1775	246		
		.2030	269			.1980	251		
12									
13									
14									
15									

Gauge No. 397		Depth 2456'		Clock No. ???		12 hour			
First Flow Period		First Closed In Pressure		Second Flow Period		Second 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.		
0 .000	14	.000	27	.000	36	.000	51		
1 .0337	19	.020	87	.0738	34*	.0135	83**		
2 .0674	20	.040	174	.1408	38	.0338	146		
3 .1011	22	.060	209	.2079	41	.0541	186		
4 .1348	24	.080	232	.2749	45	.0743	209		
5 .1685	26	.100	244	.3419	48	.0946	223		
6 .2020	27	.120	255	.4090	51	.1149	235		
		.140	262			.1352	243		
		.160	268			.1554	250		
		.180	272			.1757	255		
		.200	277			.1960	259		
7									
8									
9									
10									
11									
12									
13									
14									
15									
Reading Interval 5		3		10		3		Minutes	

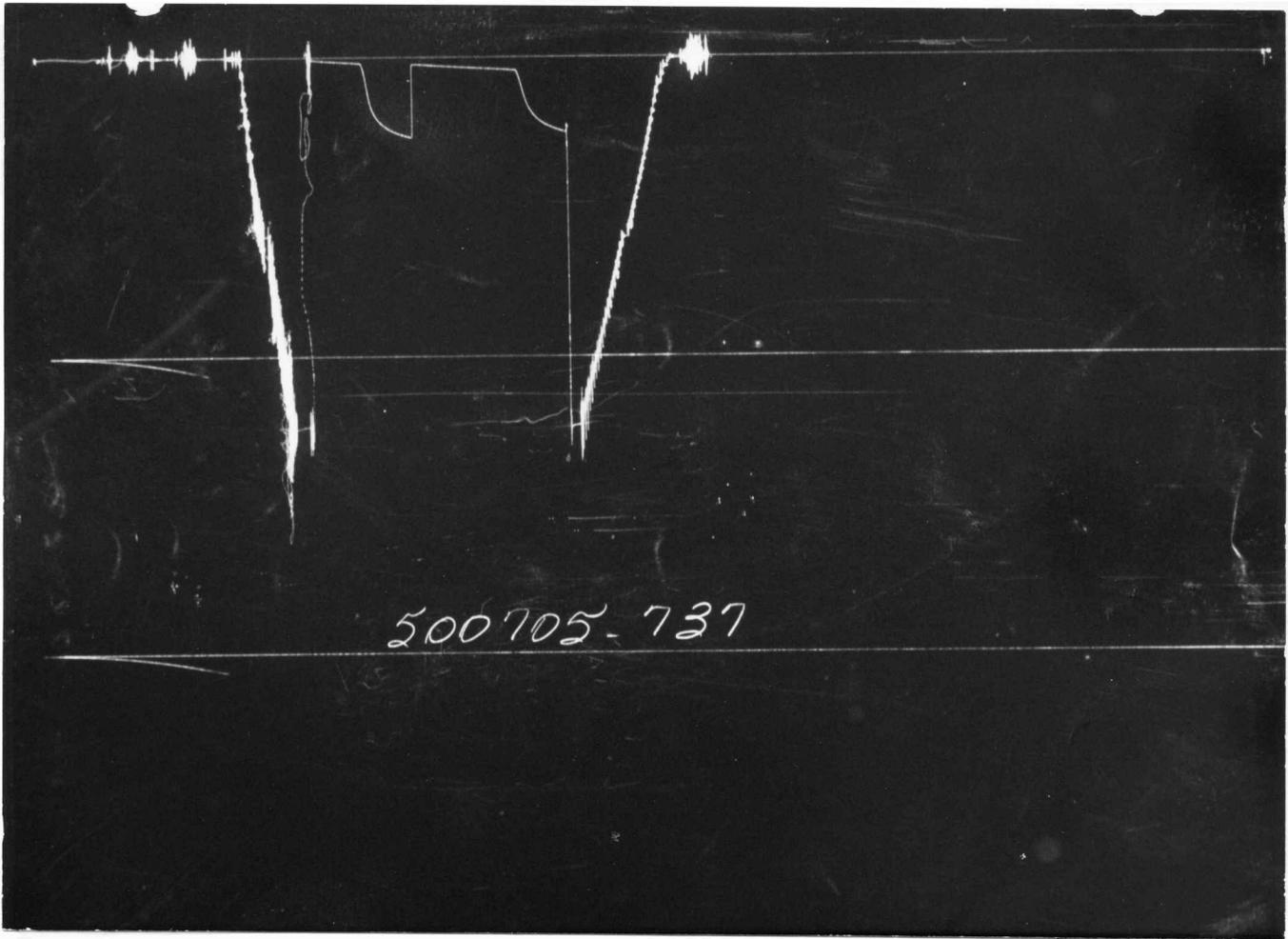
REMARKS: *First interval equal to 11 minutes **First interval equal to 2 minutes

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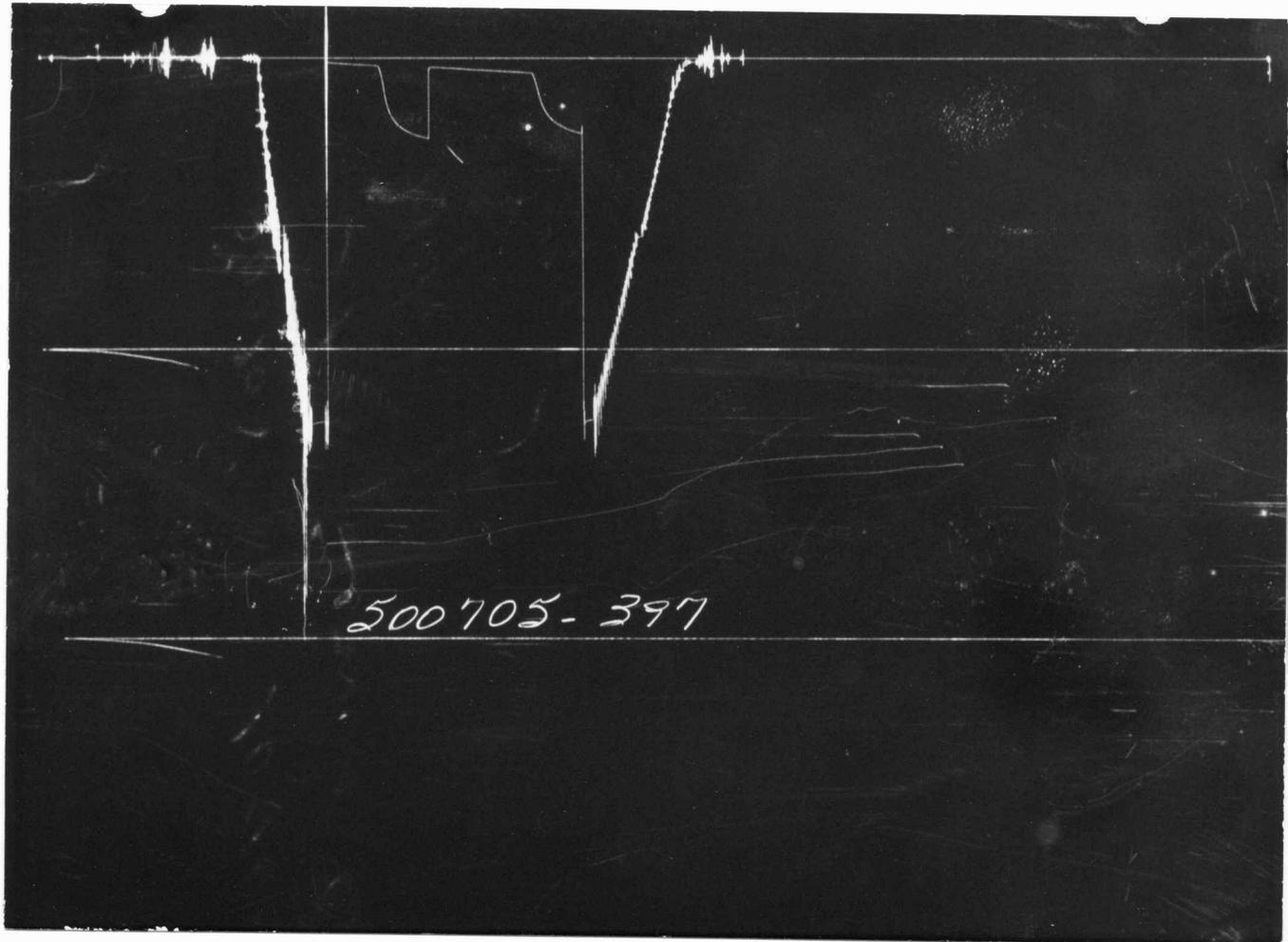


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
	5"	4.276"	1006'	
Drill Pipe	4 1/2"	3.826"	1225'	
Drill Collars	6"	2 1/4"	201'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	2440'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	2442'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	5"	1.00"		2450'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	3.84"	6'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.75"	4'	2456'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				

PRESSURE



TIME



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

FLUID SAMPLE DATA	
Sampler Pressure _____ P.S.I.G. at Surface	
Recovery: Cu. Ft. Gas _____	
cc. Oil _____	
cc. Water _____	
cc. Mud _____	
Tot. Liquid cc. _____	
Gravity _____ ° API @ _____ °F.	
Gas/Oil Ratio _____ cu. ft./bbl.	
	RESISTIVITY
	CHLORIDE CONTENT
Recovery Water _____ @ _____ °F. _____ ppm	
Recovery Mud _____ @ _____ °F. _____ ppm	
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm	
Mud Pit Sample _____ @ _____ °F. _____ ppm	
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm	
Mud Weight _____ 9.6? vis _____ 41? cp	

Date	10-16-72	Ticket Number	500706
Kind of Job	OPEN HOLE	Halliburton District	EL DORADO
Tester	MR. GASPERSON	Witness	MR. MILLER
Drilling Contractor	WHITE & ELLIS DRILLING COMPANY IC S		
EQUIPMENT & HOLE DATA			
Formation Tested	Simpson		
Elevation	1363'	GL	Ft.
Net Productive Interval	19'		Ft.
All Depths Measured From	1368'	KB	
Total Depth	2500'		Ft.
Main Hole/Casing Size	7 7/8"		
Drill Collar Length	201'	I.D.	2 1/4"
Drill Pipe Length	1006'-1255'	I.D.	4.276"-3.826"
Packer Depth(s)	2481'		Ft.
Depth Tester Valve	2471'		Ft.

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

Recovered	810	Feet of Muddy water with slight show of oil
Recovered		Feet of

Remarks Opened tool for 31 minute first flow with a good blow throughout test. Closed tool for 30 minute initial closed in pressure. Reopened tool for 62 minute second flow with a good blow throughout test. Closed tool for 29 minute second closed in pressure.

TEMPERATURE	Gauge No. 737	Gauge No. 397	Gauge No.	TIME	
	Depth: 2473' Ft.	Depth: 2496' Ft.	Depth: Ft.		
Est. 75 °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool A.M.	
	Blanked Off NO	Blanked Off YES	Blanked Off	Opened 9:15 P.M.	
Actual °F.	Pressures		Pressures	Tool A.M.	
	Field	Office	Field	Closed 11:47 P.M.	
Initial Hydrostatic	1236	1232	- 1248	Reported	
				Minutes	
First Period Flow	Initial	25	21	- 34	
	Final	248	247	- 257	30
	Closed in	377	403	- 413	31
Second Period Flow	Initial	248	253	- 265	
	Final	369	371	- 382	60
	Closed in	377	404	- 415	31
Third Period Flow	Initial				
	Final				
Final Hydrostatic	-	1229	- 1244		

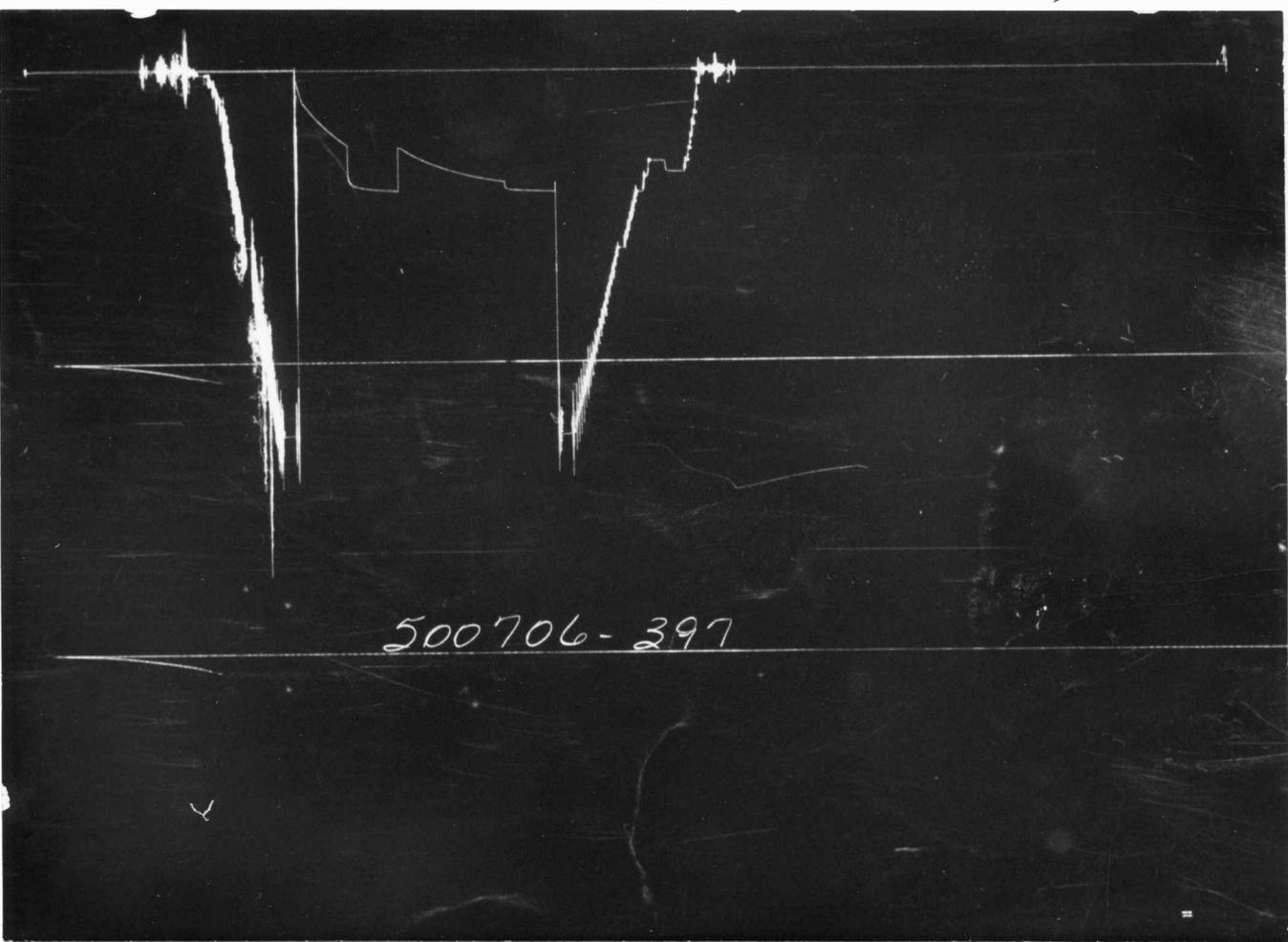
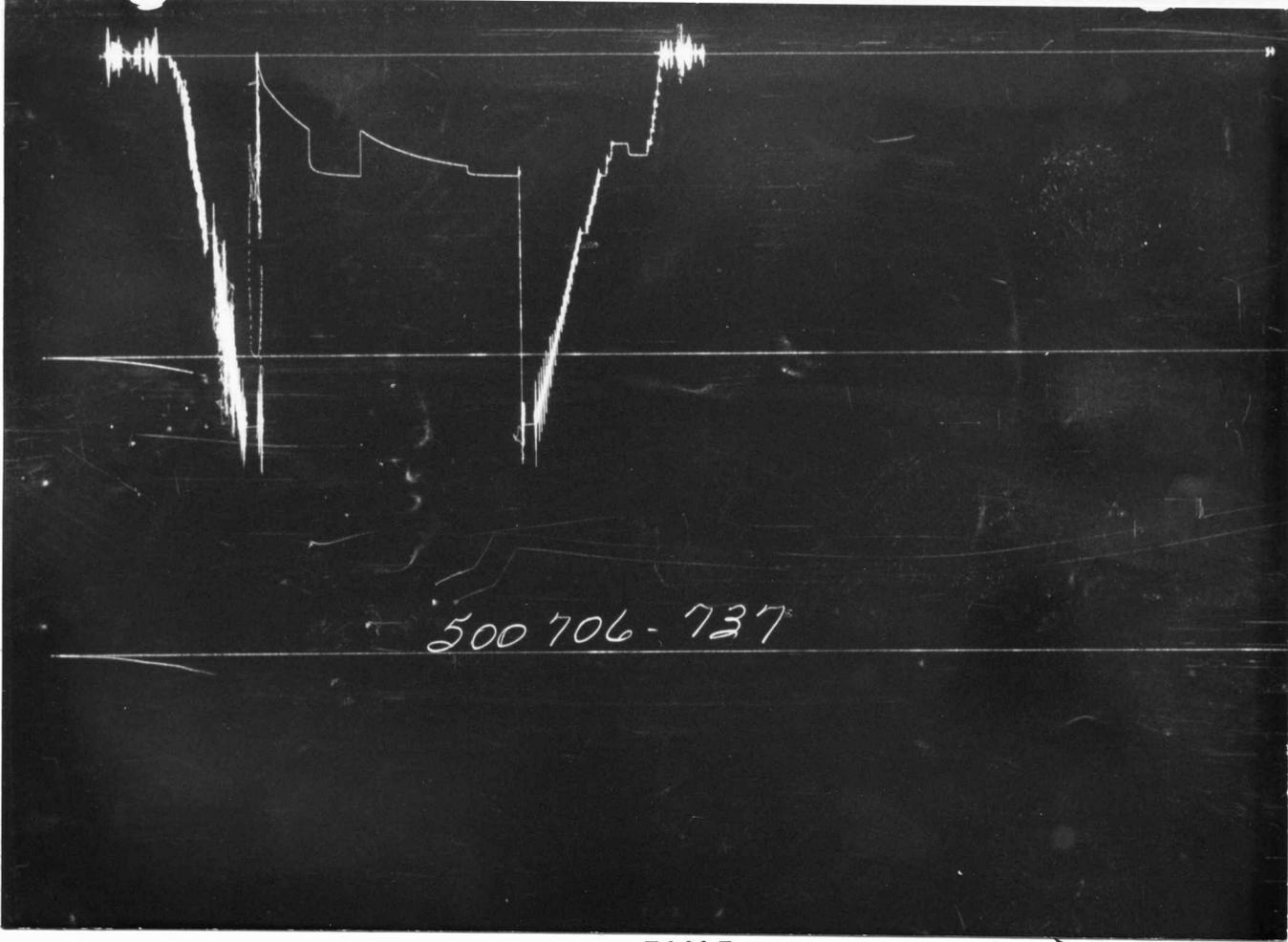
Legal Location Sec. - Twp. - Rng. 32 - 25S - 5E
 Lease Name MOIER
 Well No. 32
 Test No. 2
 Field Area EL DORADO
 Meas. From Tester Valve
 Tested Interval 2481' - 2500'
 County BUTLER
 State KANSAS
 Lease Owner/Company Name CITTES SERVICE OIL COMPANY

Gauge No. 737		Depth 2473'		Clock No. ???		12 hour		Ticket No. 500706	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
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	.000	21	247	.000	253	.000	371		
1	.0393	110*	377	.0809	292**	.0069	395***		
2	.0720	145	385	.1483	317	.0208	399		
3	.1048	176	389	.2157	336	.0347	400		
4	.1375	203	392	.2832	352	.0485	400		
5	.1703	226	394	.3506	363	.0624	401		
6	.2030	247	395	.4180	371	.0762	402		
7			397	.0938		.0901	402		
8			398	.1072		.1040	403		
9			399	.1206		.1178	403		
10			400	.1340		.1317	404		
11			400	.1474		.1456	404		
12			401	.1608		.1594	404		
13			402	.1742		.1733	404		
14			403	.1876		.1871	404		
15			403	.2010		.2010	404		
Gauge No. 397									
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
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	.000	34	257	.000	265	.000	382		
1	.0397	122*	388	.0809	302**	.0068	405***		
2	.0727	157	395	.1483	327	.0204	409		
3	.1058	187	399	.2157	347	.0340	410		
4	.1389	213	402	.2832	362	.0476	411		
5	.1719	236	404	.3506	374	.0611	412		
6	.2050	257	405	.4180	382	.0747	413		
7			407	.0924		.0883	413		
8			408	.1056		.1019	413		
9			409	.1188		.1155	414		
10			410	.1320		.1291	414		
11			411	.1452		.1427	414		
12			412	.1584		.1562	414		
13			412	.1716		.1698	415		
14			413	.1848		.1834	415		
15			413	.1980		.1970	415		
Reading Interval 5		2		10		2		Minutes	

REMARKS: *First interval equal to 6 minutes **First interval equal to 12 minutes ***First interval equal to 1 minute

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	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
	5"	4.276"	1006'	
Drill Pipe	4 1/2"	3.826"	1255'	
Drill Collars	6"	2 1/4"	201'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	2471'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	2473'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	5"	1.00"	4'	2481'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	3.84"	15'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.75"	4'	2496'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



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