

Legal Location Sec. - Twp. - Rng. 30 - 25S - 5E
 Well No. 99
 Lease Name MURRAY
 Test No. 1
 Tested Interval 2517' - 2524'
 County BUTLER
 State KANSAS
 Lease Owner/Company Name CITTES SERVICE OIL COMPANY

FLUID SAMPLER DATA		Date 10-8-71	Ticket Number 452026
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job OPEN HOLE	Halliburton District EL DORADO	
Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____	Tester MR. MACY	Witness MR. OVERALL	
Gravity _____ ° API @ _____ ° F.	Drilling Contractor WHITE & ELLIS DRILLING INCORPORATED		
Gas/Oil Ratio _____ cu. ft./bbl.	EQUIPMENT & HOLE DATA I C S		
RESISTIVITY _____ CHLORIDE CONTENT _____	Formation Tested Viola	Elevation 1408' KB	Ft.
Recovery Water _____ @ _____ ° F. _____ ppm	Net Productive Interval 7'		Ft.
Recovery Mud _____ @ _____ ° F.	All Depths Measured From Kelly Bushing	Total Depth 2524'	Ft.
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm	Main Hole/Casing Size 7 7/8"	Drill Collar Length 143' I.D. 2.25"	
Mud Pit Sample _____ @ _____ ° F.	Drill Pipe Length 2378' I.D. 3.826"	Packer Depth(s) 2513' - 2517'	Ft.
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm	Depth Tester Valve 2509'		Ft.
Mud Weight 9.8 vis 38 cp			

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

Recovered 756 Feet of Slightly salty water	Mea. From Tester Valve
Recovered Feet of	
Recovered Feet of	
Recovered Feet of	
Recovered Feet of	

Remarks Opened tool for 30 minute first flow with a fair blow building to strong in 9 minutes. Closed tool for 30 minute initial closed in pressure. Reopened tool for 60 minute second flow with a strong blow throughout test; no gas to surface. Closed tool for 30 minute second closed in pressure.

TEMPERATURE	Gauge No. 737		Gauge No. 397		Gauge No.		TIME	
	Depth: 2510' Ft.	Depth: 2519' Ft.	Depth: Ft.	Depth: Ft.	Hour Clock	Hour Clock	Tool	A.M.
Est. 95 °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Blanked Off	12 Hour Clock	12 Hour Clock	Opened	15:00 P.M.
Actual °F.	Pressures		Pressures		Pressures		Tool	A.M.
	Field	Office	Field	Office	Field	Office	Closed	17:30 P.M.
Initial Hydrostatic	-	1256	1246	1263			Reported	Computed
							Minutes	Minutes
First Period	Flow Initial	-	14	35	23			
	Flow Final	-	152	150	155		30	30
	Closed in	-	785	795	788		30	30
Second Period	Flow Initial	-	157	150	161			
	Flow Final	-	319	318	326		60	60
	Closed in	-	785	795	790		30	30
Third Period	Flow Initial	-						
	Flow Final	-						
	Closed in	-						
Final Hydrostatic	-	1250	1246	1258				

Gauge No. 737		Depth 2510'		Clock No. 7101		12 hour		Ticket No. 452026	
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	.000	.000	152	.000	157	.000	319		
1	.0398	.0204	695	.0663	190	.0204	715		
2	.0796	.0408	731	.1326	218	.0408	744		
3	.1194	.0612	751	.1989	244	.0612	759		
4	.1592	.0816	762	.2652	269	.0816	767		
5	.1990	.1020	767	.3315	293	.1020	772		
6		.1224	775	.3980	319	.1224	777		
7		.1428	778			.1428	780		
8		.1632	781			.1632	783		
9		.1836	784			.1836	784		
10		.2040	785			.2040	785		
11									
12									
13									
14									
15									
Reading Interval	6	3		10		3			Minutes

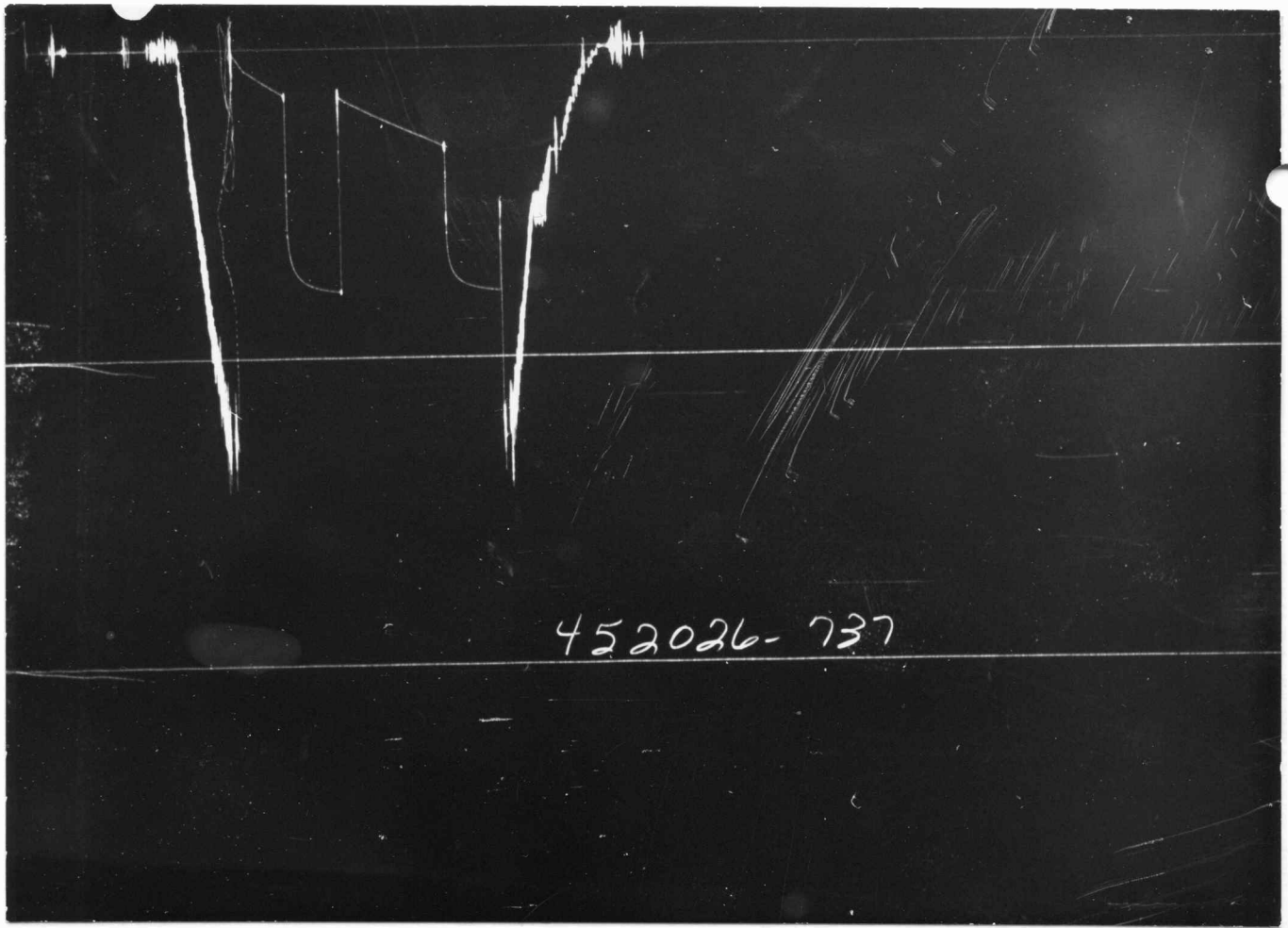
Gauge No. 397		Depth 2519'		Clock No. 3228		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$		$\text{Log } \frac{t + \theta}{\theta}$	
0	.000	.000	155	.000	161	.000	326
1	.0396	.0202	701	.0668	192	.0204	722
2	.0792	.0404	737	.1336	224	.0408	749
3	.1188	.0606	756	.2004	251	.0612	763
4	.1584	.0808	766	.2672	277	.0816	772
5	.1980	.1010	773	.3340	301	.1020	778
6		.1212	779	.4010	326	.1224	781
7		.1414	782			.1428	784
8		.1616	785			.1632	787
9		.1818	787			.1836	788
10		.2020	788			.2040	790
11							
12							
13							
14							
15							
Reading Interval	6	3		10		3	

REMARKS:

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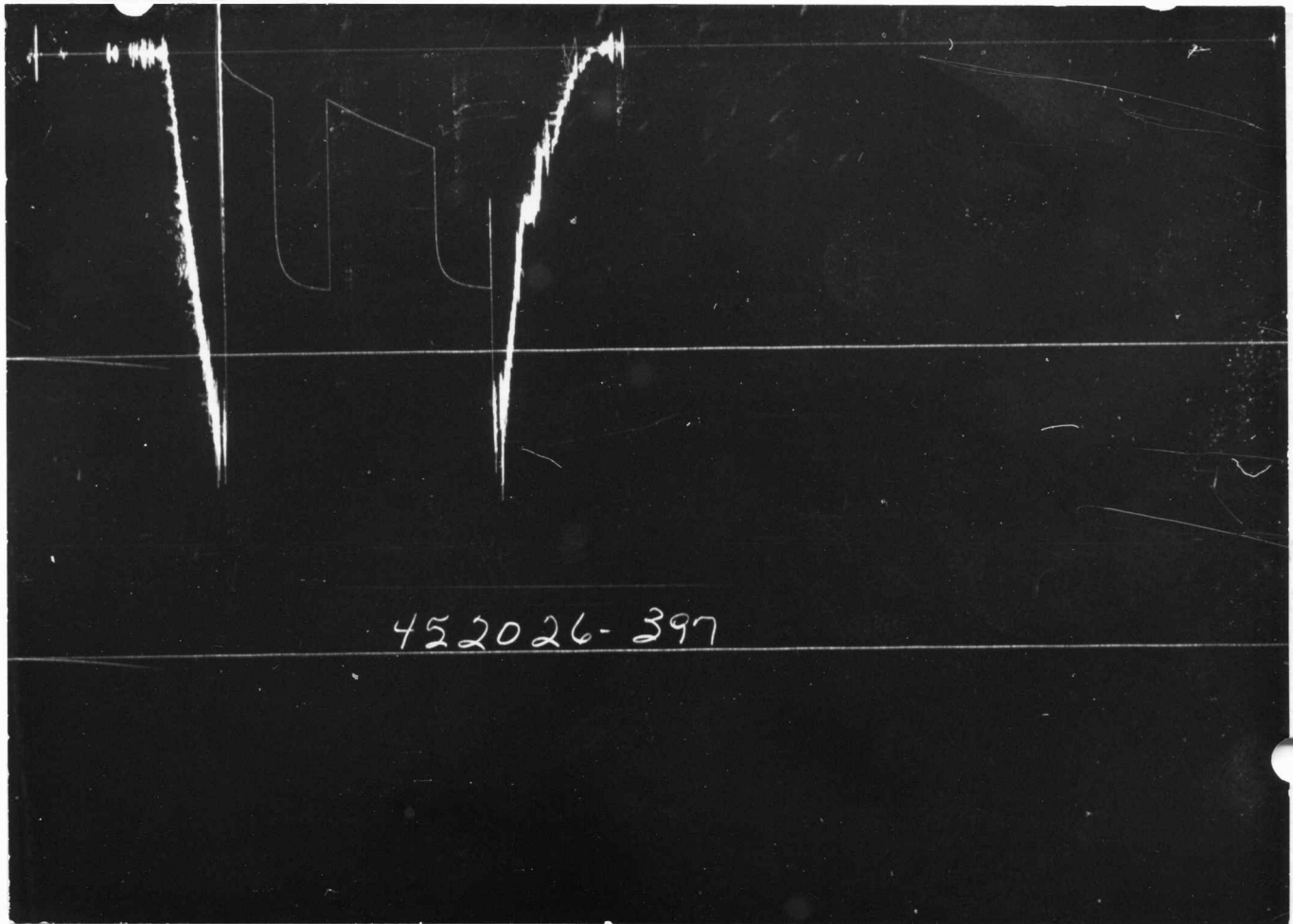
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5"		1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2378'	
Drill Collars	6"	2.25"	143'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	2509'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	2510'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1"	4'	2513'
Distributor				
Packer Assembly	6 3/4"	1"	4'	2517'
Flush Joint Anchor	4 3/4"		3'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.75"	4'	2519'
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				



452026-737

PRESSURE

TIME



452026-397

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