

FLUID SAMPLE DATA				Date 7-29-71		Ticket Number 404843	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District EL DORADO	
Recovery: Cu. Ft. Gas _____				Tester MR. MACY		Witness MR. SCHWERTFEGER	
cc. Oil _____				Drilling Contractor DN & B DRILLING COMPANY DR S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Kansas City			
Tot. Liquid cc. _____				Elevation 1251' KB Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval - Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY				Total Depth 2250' Ft.			
CHLORIDE CONTENT				Main Hole/Casing Size 7 7/8"			
Recovery Water @ _____ °F. _____ ppm				Drill Collar Length 396' I.D. 2.25"			
Recovery Mud @ _____ °F. _____ ppm				Drill Pipe Length 1822' I.D. 3.826"			
Recovery Mud Filtrate @ _____ °F. _____ ppm				Packer Depth(s) 2126'-2130' Ft.			
Mud Pit Sample @ _____ °F. _____ ppm				Depth Tester Valve 2123' Ft.			
Mud Pit Sample Filtrate @ _____ °F. _____ ppm							
Mud Weight 9.1 vis 34 cp							
TYPE		AMOUNT		Depth Back Surface		Bottom	
Cushion				Ft. Pres. Valve		Choke 1/4" Choke 3/4"	
Recovered 913		Feet of muddy water ( slightly salty)					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Slid tool to bottom approximately 10'. Opened tool for 31 minute first flow with a good blow building to a strong blow in 4 minutes. Closed tool for 44 minute first closed in pressure. Reopened tool for 120 minute second flow with a strong blow @ 10:15 for 60 minutes, blow decreasing very slowly. Closed tool for 45 minute second closed in pressure.							
TEMPERATURE		Gauge No. 737		Gauge No. 397		Gauge No.	
Depth: 2131 Ft.		Depth: 2245 Ft.		Depth: Ft.		TIME	
Est. 105 °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off No		Blanked Off Yes		Blanked Off		Tool Opened 0800 A.M. P.M.	
Actual °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		980		1059.4 1035		Reported Computed	
Flow Initial		36		70.7 83		Minutes Minutes	
Flow Final		167		212.0 220		30 31	
Closed in		652		706.3 704		45 44	
Flow Initial		172		212.0 225		120 120	
Flow Final		374		415.2 426		45 45	
Closed in		613		671.1 665			
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		974		- 1016			

Legal Location Sec. - Twp. - Rng. RINER  
 Lease Name 1  
 Well No. 1  
 Test No. 2130'-2250'  
 Tased Interval GORDEN  
 County BUTLER  
 State KANSAS  
 Lease Owner/Company Name LARRY G. STEPHENSON

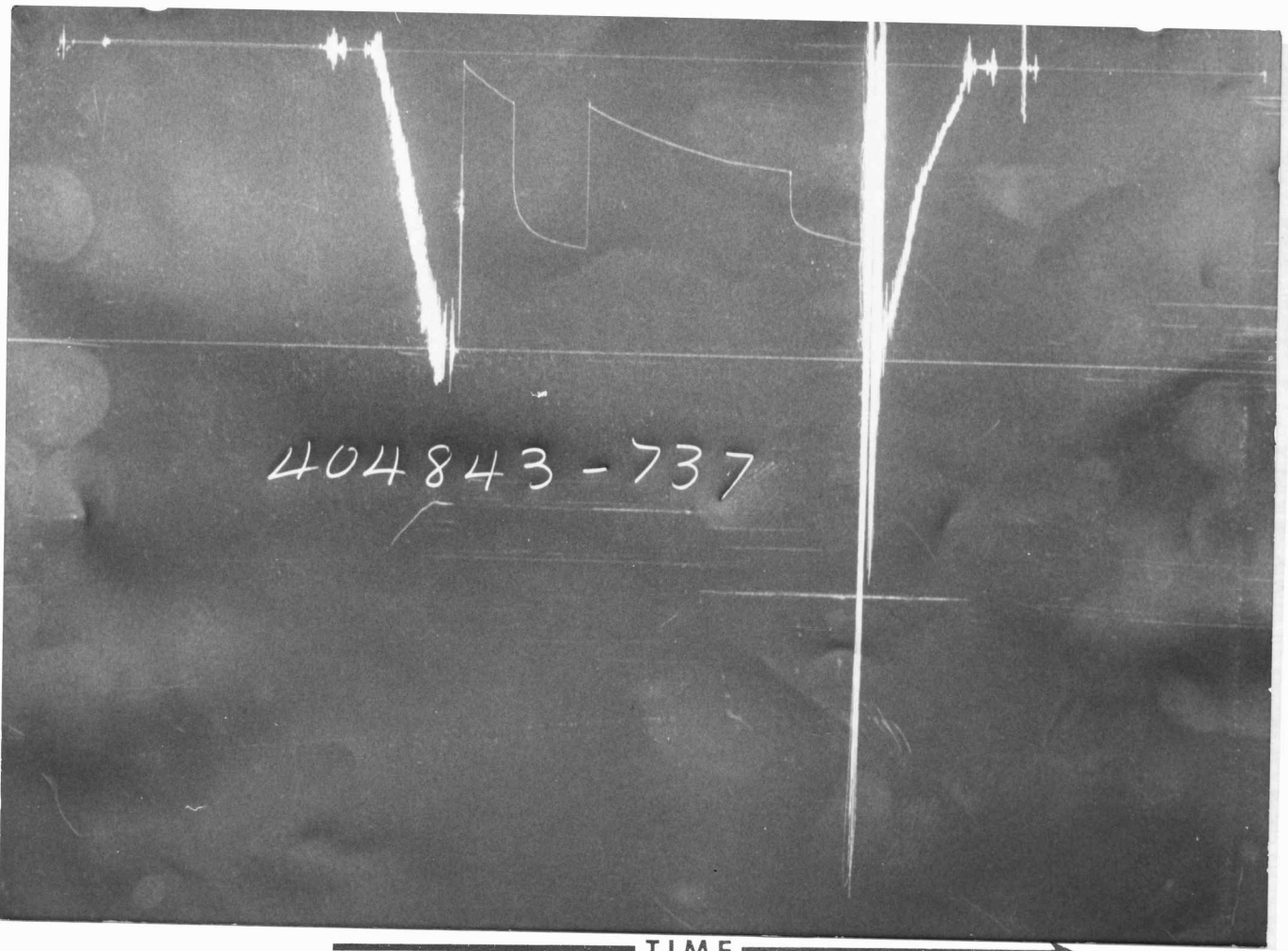
Gauge No. 737		Depth 2131'		Clock No. 7101		12 hour		Ticket No. 404843	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$	
0	.000	.000	167	.000	172	.000	374		
1	.0322	.0269	535	.1328	228	.0327	550		
2	.0644	.0538	572	.2656	273	.0654	568		
3	.0966	.0807	596	.3984	310	.0981	578		
4	.1288	.1076	610	.5312	342	.1308	585		
5	.1610	.1345	622	.6640	360	.1635	591		
6	.2000	.1614	631	.7970	374	.1962	597		
7		.1883	636			.2289	604		
8		.2153	641			.2616	610		
9		.2421	645			.2940	613		
10		.2690	649						
11		.2960	652						
12									
13									
14									
15									

Gauge No. 397		Depth 2245'		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	220	.000	225	.000	426		
1	.0327	.0267	587	.1337	282	.0332	602		
2	.0654	.0534	625	.2674	326	.0664	620		
3	.0981	.0801	649	.4011	363	.0996	630		
4	.1308	.1068	663	.5348	395	.1328	637		
5	.1635	.1335	674	.6685	414	.1660	644		
6	.2030	.1602	682	.8020	426	.1992	649		
7		.1869	688			.2324	657		
8		.2136	693			.2656	661		
9		.2403	698			.2990	665		
10		.2670	701						
11		.2940	704						
12									
13									
14									
15									
Reading Interval 5		4		20		5		Minutes	

REMARKS: \* Last interval equal to 6 minutes.



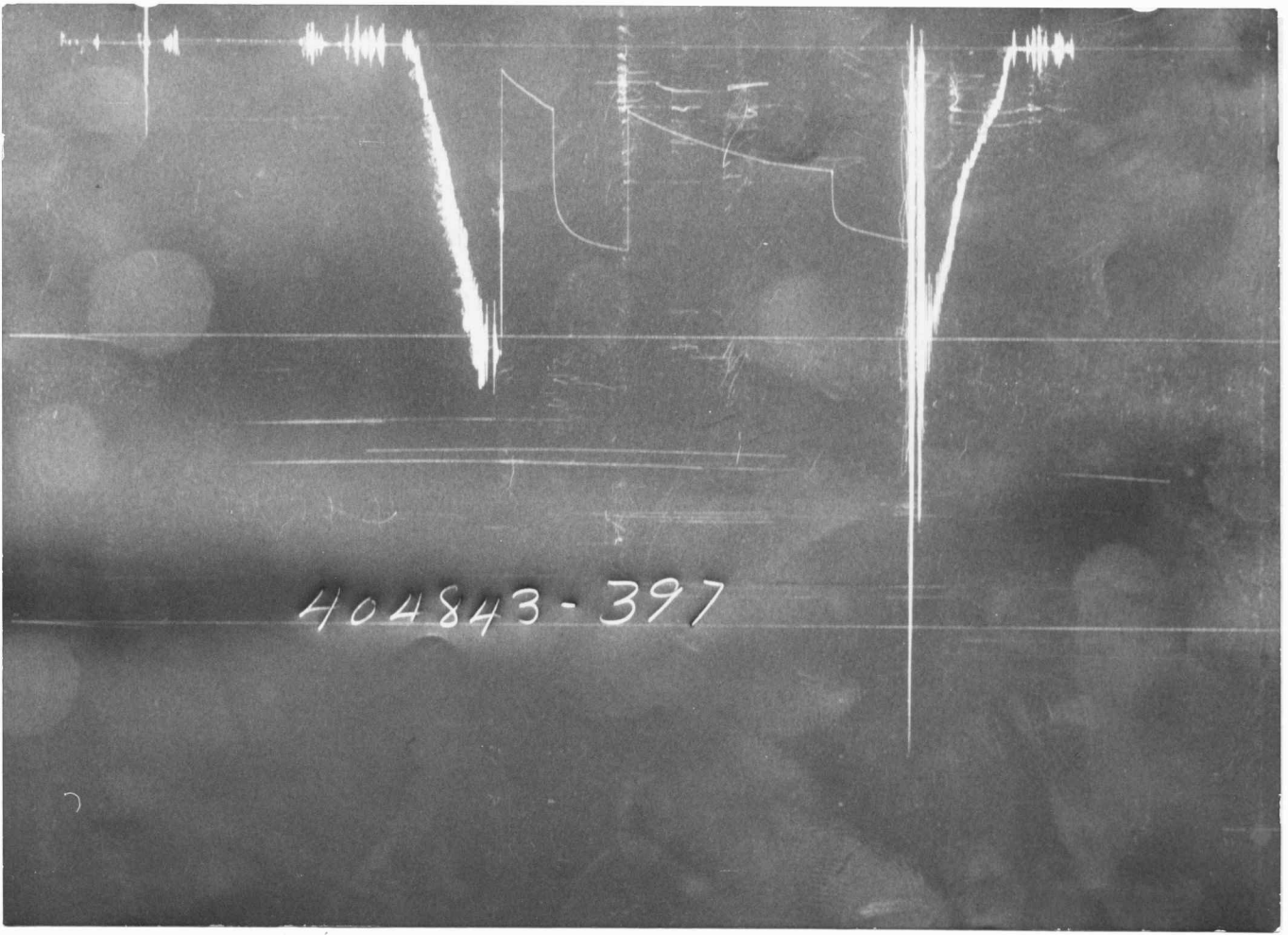
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub .....	5"		1'	
Water Cushion Valve .....				
Drill Pipe .....	4 1/2"	3.826"	1822'	
Drill Collars .....	6"	2.25"	396'	
Handling Sub & Choke Assembly .....				
Dual CIP Valve .....	5"	.87"	5'	
Dual CIP Sampler .....				
Hydro-Spring Tester .....	5"	.75"	5'	2123'
Multiple CIP Sampler .....				
Extension Joint .....				
AP Running Case .....	5"	3.75"	4'	2131'
Hydraulic Jar .....				
VR Safety Joint .....				
Pressure Equalizing Crossover .....				
Packer Assembly .....	6 3/4"	1"	4'	2126'
Distributor .....				
Packer Assembly .....	6 3/4"	1"	4'	2130'
Flush Joint Anchor .....	4 3/4"		52'	
Pressure Equalizing Tube .....				
Blanked-Off B.T. Running Case .....				
Drill Collars Pipe .....	4 1/2"	3.826"	60'	
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 .....	5"	3.75"	4'	2245'



404843-737

PRESSURE

TIME



404843-397

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

# SUPERIOR TESTERS, INC.

433 SOUTH WESTVIEW, DERBY, KANSAS

July 30, 1971 Location SW-SE-SW-22-28<sup>S</sup>-4<sup>E</sup> Elevation 1251' K.6  
Company Larry G. Stephanson  
Address Sutton Place - Wichita, Kansas  
Copies Mailed To Sutton Place - Wichita, Kansas Number of Copies \_\_\_\_\_  
Copies Mailed To Sutton Place - Wichita, Kansas  
Riser Well No. 1 County Butler  
Depth 2636' Tested From 2604' To 2636' Size of Hole 7/8"  
Drill Pipe 4 1/2" Full Hole Size Packer 6 3/4" Length Air Chamber \_\_\_\_\_  
Formation Tested Simpson Sand Tool Open At 5:40 P.M. Test No. 2  
Initial Shut in Time 20 Min Tool Open — Hr 40 Min Final Shut in Time 20 Min  
weak blow for 2 minutes  
Time to Surface — Min Oil to Surface — Min  
Gauged \_\_\_\_\_

Recovery 10' mud

Remarks \_\_\_\_\_

Initial Shut in Pressure 39 Lbs. Initial Flow Pressure 39 Lbs. Final Flow Pressure 39 Lbs.  
Final Shut in Pressure 39 Lbs. Initial Hydrostatic Pressure 1271 Lbs. Final Hydrostatic Pressure 1259 Lbs.

Fluid Wt. 10 Viscosity 40  
Bottom Choke 1/2" Top Choke 1/2"  
Bottom Hole Temperature — ?

SUPERIOR TESTERS, INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Field or Purchase Order No. none  
Extra Equipment none  
Price of Job \$210.00 Operator Time \_\_\_\_\_ Hrs.

Tool Operator L. L. Budig

Approved By [Signature]

Ticket No. **2341**

# SUPERIOR TESTERS, INC.

433 SOUTH WESTVIEW, DERBY, KANSAS

Date 7/30/71 Ticket No. 2341 Elevation 1251 KB

Total Depth 2636 Tested From 2604 To 2636 Formation Tested Simpson sand

Blow Weak blow for 2 minutes

Mud Wt. 10 Viscosity 40 Bottom Hole Temp -

Size Bottom Choke 1/2" Size Top Choke 1/2"

Size Drill Pipe 4 1/2" FH Size Hole 7 7/8" Length Air Chamber - Ft.

Initial Shut in Time 20 Min Tool Open 40 Hr 40 Min Final Shut in Time 20 Min

Recovery 10' of mud

### Office Corrected Pressure Reading

Initial Shut in Pressure 39 Lbs

Initial Flow Pressure 39 Lbs

Final Flow Pressure 39 Lbs

Final Shut in Pressure 39 Lbs

Initial Hydrostatic Pressure 1271 Lbs

Final Hydrostatic Pressure 1259 Lbs

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witnessed By H. E. Schwendfeger

Tool Operator R. L. Budig

Riner \_\_\_\_\_  
Name of Lease \_\_\_\_\_  
Location SW, SE, SW 23-28S-4E  
Well No. 1  
County Butler  
Test No. 2  
Company Larry G. Stephenson  
State Kansas

#2341

D.S.T.#2

