

FLUID SAMPLE DATA				Date	11-26-79 <th>Ticket Number</th> <td>659405 </td>	Ticket Number	659405
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud <u>2500</u> Tot. Liquid cc. <u>2500</u> Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ RESISTIVITY _____ CHLORIDE CONTENT _____ Recovery Water _____ @ _____ °F. _____ ppm Recovery Mud <u>.088</u> @ <u>60</u> °F. <u>53,900</u> ppm Recovery Mud Filtrate _____ @ _____ °F. _____ ppm Mud Pit Sample _____ @ _____ °F. _____ ppm Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm Mud Weight <u>10.1</u> vis <u>44</u> Sec σ_{sp}				Kind of Job OPEN HOLE TEST Halliburton District HAYS Tester K. RICHMEIER Witness F. WISLER Drilling Contractor EMPHASIS DRILLING COMPANY RIG #1		Drilling Contractor EMPHASIS DRILLING COMPANY RIG #1 EQUIPMENT & HOLE DATA PW	
				Formation Tested <u>Conglomerate Sand</u> Elevation <u>1963'</u> K.B. Ft. Net Productive Interval <u>5'</u> Ft. All Depths Measured From <u>Kelly Bushing</u> Total Depth <u>3424'</u> Ft. Main Hole/Casing Size <u>7 7/8"</u> Drill Collar Length _____ I.D. Drill Pipe Length <u>3379'</u> I.D. <u>3.826"</u> Packer Depth(s) <u>3407'</u> Ft. Depth Tester Valve <u>3390'</u> Ft.		Legal Location Sec. - Twp. - Rng. 9 - 11 S - 15 W Lease Name COOK Well No. 6 Test No. 1 Tested Interval 3407' - 3424' Field Area FAIRPORT County RUSSELL State KANSAS Lease Owner/Company Name SOHIO PETROLEUM COMPANY	
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
				Ft.	<u>1/4"</u>	<u>3/4"</u>	
Recovered	<u>10</u>	Feet of	<u>mud with a few oil specks.</u>				
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks <u>- SEE PRODUCTION TEST DATA SHEET -</u>							
TEMPERATURE		Gauge No. <u>6765</u>	Gauge No. <u>6764</u>	Gauge No.		TIME	
		Depth: <u>3395</u> Ft.	Depth: <u>3420</u> Ft.	Depth: _____ Ft.			
		<u>12</u> Hour Clock	<u>12</u> Hour Clock	Hour Clock			
Est. _____ °F.	Blanked Off <u>No</u>		Blanked Off <u>Yes</u>		Blanked Off		Tool _____ A.M.
<u>3419'</u> @							Opened _____ P.M.
Actual <u>105</u> °F.							Opened _____ A.M.
		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic			<u>1826.0</u>	<u>1894</u>	<u>1840.2</u>		
First Period	Flow Initial		<u>10.5</u>	<u>32</u>	<u>31.4</u>		
	Flow Final		<u>10.5</u>	<u>32</u>	<u>31.4</u>	<u>3</u>	<u>4</u>
Closed in			<u>328.7</u>	<u>346</u>	<u>339.6</u>	<u>60</u>	<u>59</u>
Second Period	Flow Initial		<u>13.6</u>	<u>53</u>	<u>45.0</u>		
	Flow Final		<u>16.8</u>	<u>32</u>	<u>36.6</u>	<u>60</u>	<u>60</u>
Closed in			<u>296.2</u>	<u>304</u>	<u>309.2</u>	<u>120</u>	<u>120</u>
Third Period	Flow Initial						
	Flow Final						
Closed in							
Final Hydrostatic			<u>1809.3</u>	<u>1842</u>	<u>1825.7</u>		

Casing perms. _____ Bottom choke _____ Surf. temp 35 °F Ticket No. 659405
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
1-26-79 a.m. p.m.					
1630					Called out.
1800					On location. Rig came out of hole with drill pipe and bit for DST #1.
2000					Picked up and made up tool.
2030					Tool in table.
2229					Tool on bottom.
2232					Opened tool with a weak blow 1/2" into bucket.
2235					Closed tool.
2335					Reopened tool with no blow.
2345					Flushed tool with a very slight blow - blow died in 10 minutes.
2355					Flushed tool with a very weak blow - blow died in 25 minutes.
0035					Closed tool.
0235					Came off bottom with tools.
0405					Tool in table.
0420					Tool laid down.

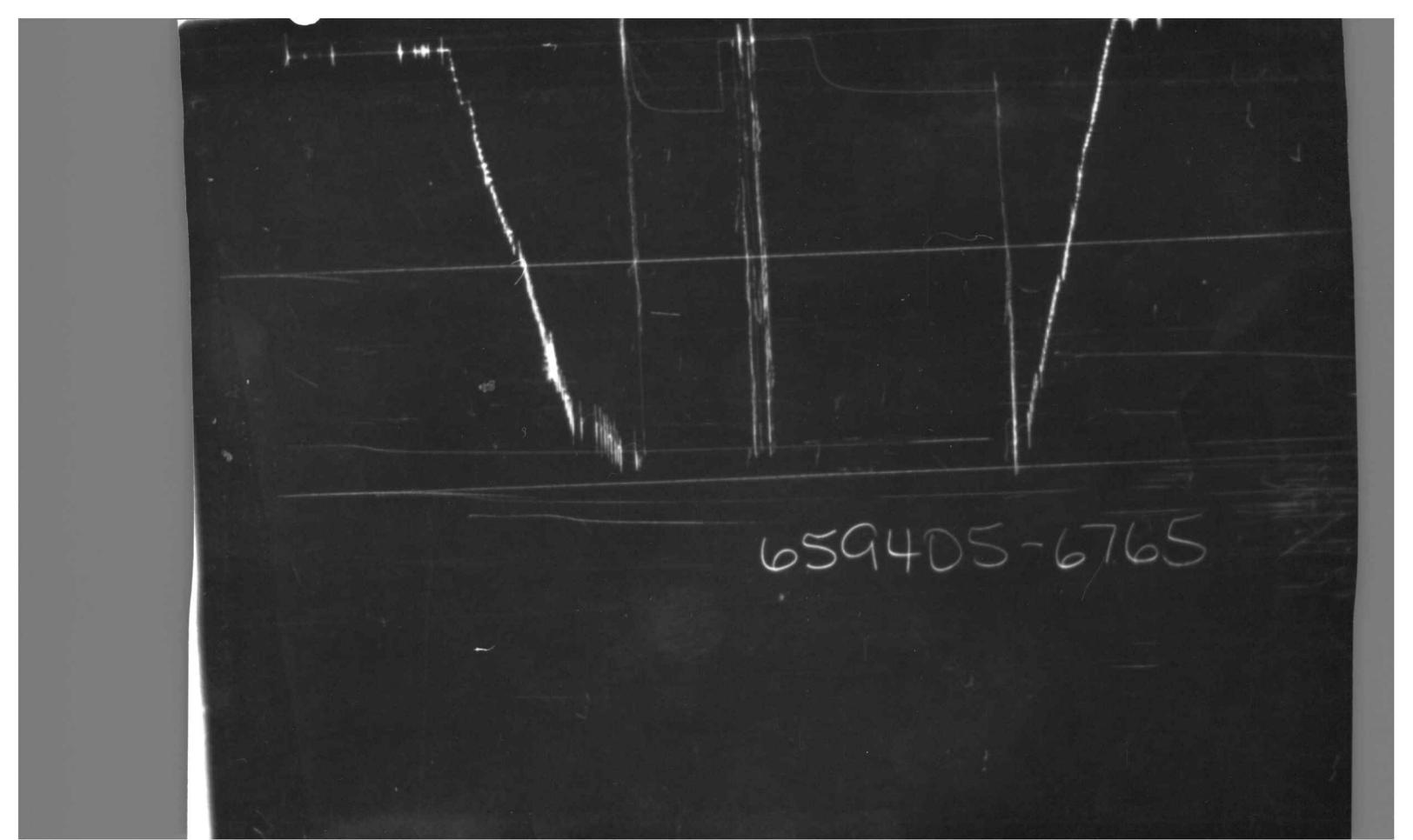
Gauge No. 6765		Depth 3395'		Clock No. 16165		12 hour		Ticket No. 659405			
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0 .000	10.5	.000	10.5	.000	13.6	.000	16.8				
1 .022	10.5	.0202*	211.1	.0610	13.6-BB	.0537	196.4				
2		.0472	279.4	.0890	13.6-AB	1075	241.5				
3		.0742	299.3	.1260	13.6-BB	1612	258.3				
4		.1012	310.9	.1420	14.7-AB	2149	267.8				
5		.1282	316.1	.3920	16.8	2687	275.2				
6		.1551	319.3			3224	279.4				
7		.1821	322.4			3761	282.5				
8		.2091	324.5			4298	285.7				
9		.2361	325.6			4836	287.8				
10		.2631	326.6			5373	289.9				
11		.2900	327.7			5910	290.9				
12		.3170	328.7			6448	293.0				
13		.3440	328.7			6985	294.1				
14		.3710	328.7			7522	296.2				
15		.3980	328.7			8060	296.2				

Gauge No. 6764		Depth 3420'		Clock No. 11079		12 hour		Ticket No.	
Time Defl. .000"	PSIG Temp. Corr.								
0 .000	31.4	.000	31.4	.000	45.0	.000	36.6		
1 .026	31.4	.0198*	233.7	.0610	31.4-BB	.0527	205.4		
2		.0463	278.8	.0890	31.4-AB	1055	247.3		
3		.0727	301.8	.1250	31.4-BB	1582	267.2		
4		.0992	315.5	.1430	39.8-AB	2109	277.7		
5		.1256	322.8	.3990	36.6	2637	284.0		
6		.1520	327.0			3164	288.2		
7		.1785	330.1			3691	292.4		
8		.2049	333.3			4218	296.6		
9		.2314	335.4			4746	298.7		
10		.2578	337.5			5273	301.8		
11		.2842	337.5			5800	301.8		
12		.3107	338.5			6328	305.0		
13		.3371	338.5			6855	306.0		
14		.3636	339.6			7382	308.1		
15		.3900	339.6			7910	309.2		
Reading Interval		4		8		Minutes			

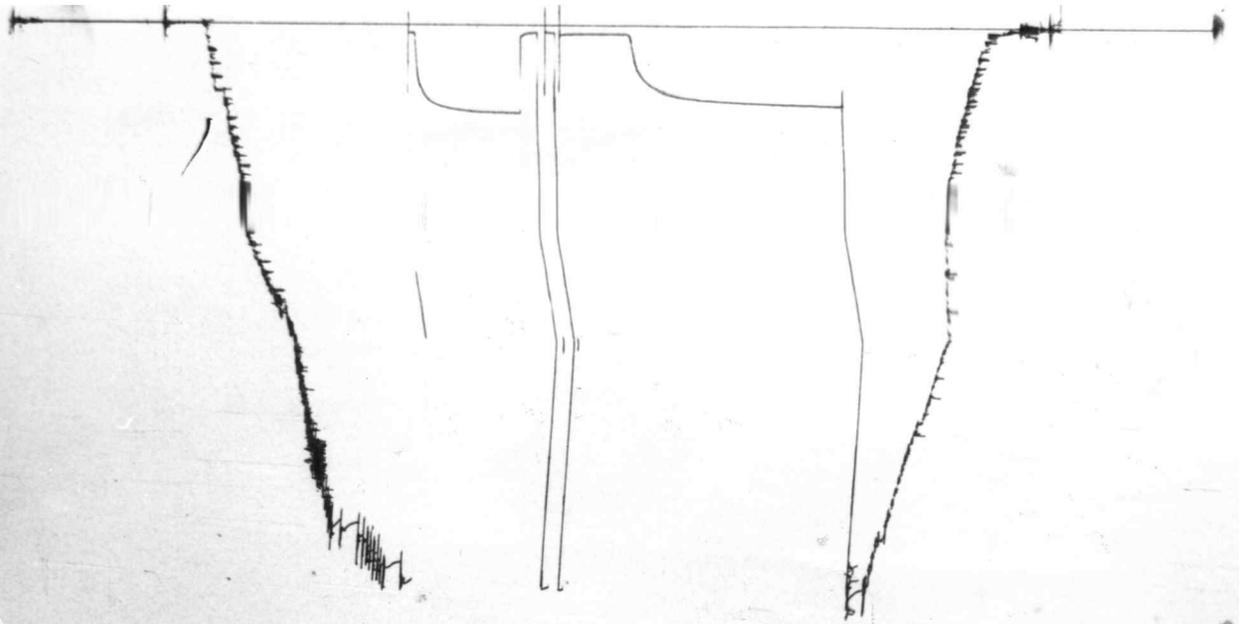
REMARKS: * = 3 minute interval.

BB = Before Bypass; AB = After Bypass.....

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4.50"	3.826"	3379'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe				
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5.0"	.75"	7'	3383'
Hydro-Spring Tester	5.0"	.75"	5'	3390'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.0"	3.06"	4'	3395'
Hydraulic Jar	5.0"	1.75"	5'	
VR Safety Joint	5.0"	1.0"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	4'	3407'
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.0"	3.84"	10'	
HT-500 Temp.	5.0"	3.75"	1.5'	3419'
Blanked-Off B.T. Running Case	5.0"	2.44"	4'	3420'
Total Depth				3424'

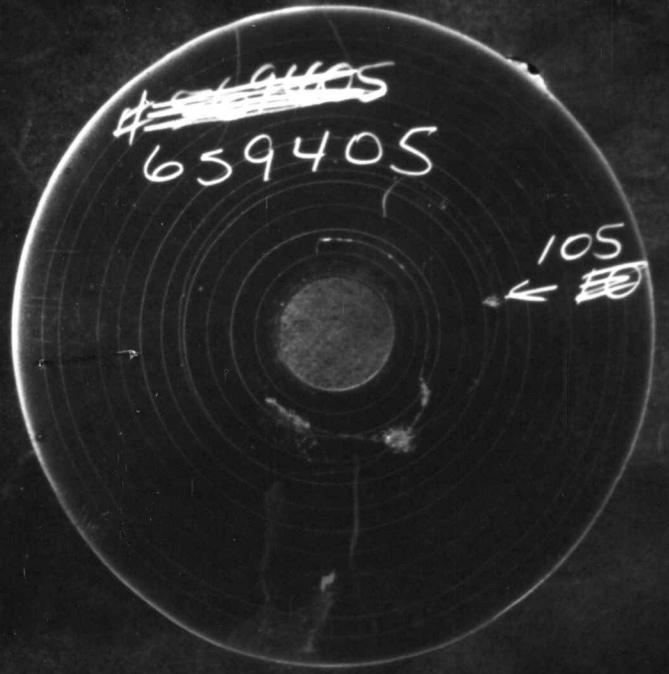


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TEMPERATURE
RECORDER
CHART



10° each circle