

FLUID SAMPLE DATA				Date 2-9-80		Ticket Number 659473	
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 42 SEC. ~~XX~~				Kind of Job OPEN HOLE PACKER DST Tester CARPENTER Drilling Contractor BLUE GOOSE # 1 DR Witness H. GOUGH		Halliburton District NESS CITY	
EQUIPMENT & HOLE DATA							
Formation Tested _____				Mississippian			
Elevation _____				2245' KB Ft.			
Net Productive Interval _____				5' Ft.			
All Depths Measured From _____				Kelly Bushing			
Total Depth _____				4317' Ft.			
Main Hole/Casing Size _____				7 7/8"			
Drill Collar Length _____				279' I.D. 2.25"			
Drill Pipe Length _____				4008' I.D. 3.826"			
Packer Depth(s) _____				4301-4307' Ft.			
Depth Tester Valve _____				4292' Ft.			
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
				Ft.	.25"	.75"	
Recovered		Feet of GRIND OUT: 10 % gas, 50% oil, 40% mud					
Recovered 15'		Feet of oil cut mud					
Recovered 558'		Feet of heavy oil cut mud					
Recovered		Feet of					
Recovered		Feet of					
Remarks See production test data sheet							
Charts indicate partial plugging of anchor perforations during flow period.							
NESS							
TEMPERATURE		Gauge No. 690		Gauge No. 228		Gauge No.	
Depth:		4294 Ft.		4314 Ft.		Ft.	
Est. °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off No		Blanked Off Yes		Blanked Off		Tool A.M.	
Actual °F.		Pressures		Pressures		Opened 0952 P.M.	
		Pressures		Pressures		Opened A.M.	
		Pressures		Pressures		Bypass 1252 P.M.	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic			2187.5	2206	2201.1		
First Period	Flow Initial		10.1 Q	107	48.7		
	Flow Final		134.4	142	146.3		
	Closed in		1235.8	1249	1245.5	30	31
Second Period	Flow Initial		142.5	153	158.5		
	Flow Final		238.2	163	662.3	60	60
	Closed in		1247.9	1249	1256.4	60	60
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic			2113.9	2127	2127.4		

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 659473
Gas gravity _____ Oil gravity _____ %GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

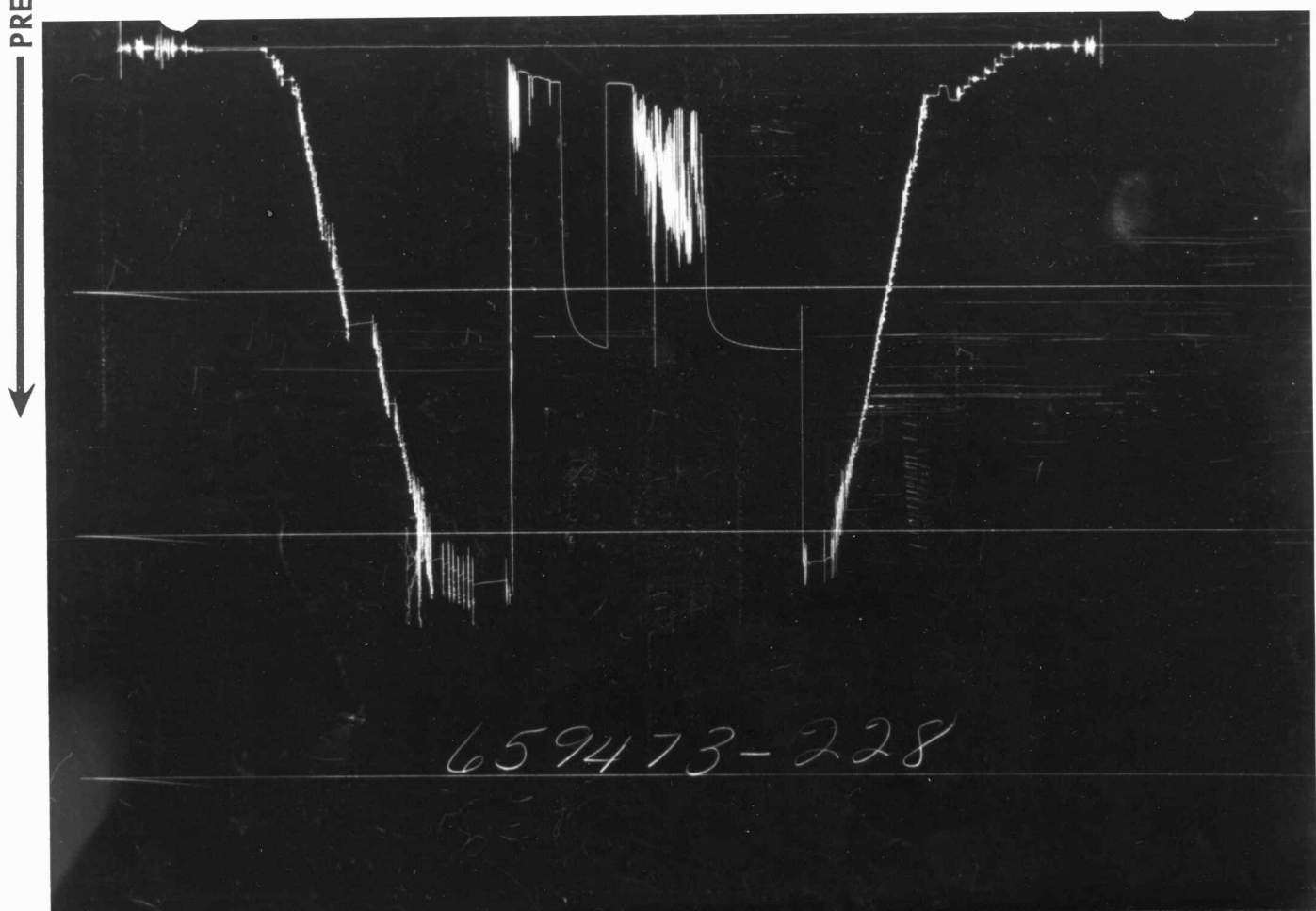
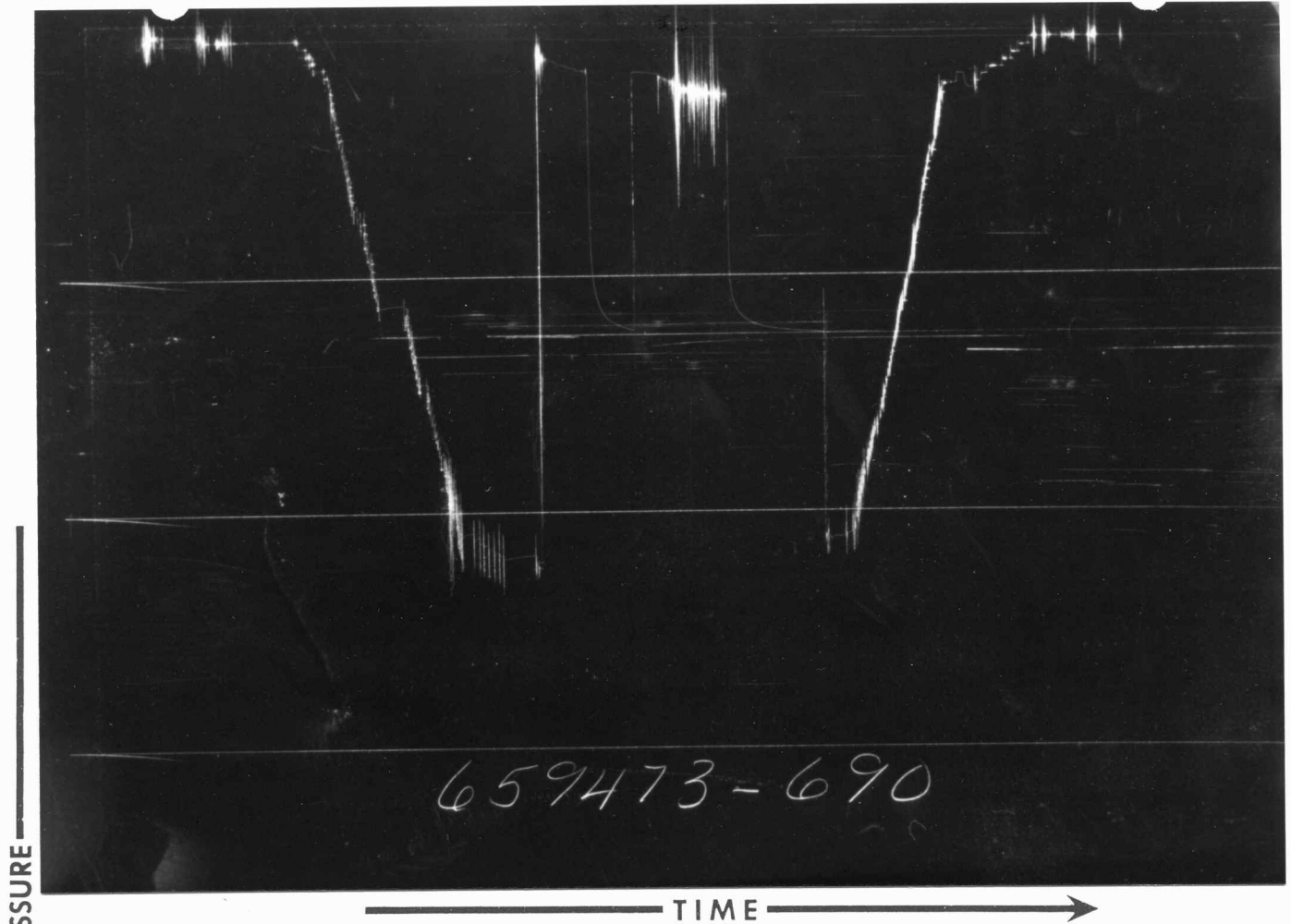
Gauge No. 690		Depth 4294'		Clock No. 17417		12 hour		Ticket No. 659473	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0 .000	10.1 Q	.000	134.4	.000	142.5	.000	238.2		
1 .0403*	78.4	.0132	986.8	.397	238.2	.0263	1136.0		
2 .0738	93.6	.0264	1079.6			.0525	1176.4		
3 .1074	108.9	.0396	1126.0	Plugging		.0788	1197.5		
4 .1409	120.1	.0528	1155.2			.1051	1210.6		
5 .1745	131.3	.0661	1176.4			.1314	1219.7		
6 .2080	134.4	.0793	1189.5			.1576	1226.8		
7		.0925	1199.6			.1839	1231.8		
8		.1057	1207.6			.2102	1235.8		
9		.1189	1215.7			.2364	1237.9		
10		.1321	1220.7			.2627	1240.9		
11		.1453	1224.8			.2890	1241.9		
12		.1585	1228.8			.3152	1243.9		
13		.1717	1232.8			.3415	1245.9		
14		.1850	1235.8			.3678	1246.9		
15						.3940	1247.9		

Gauge No. 228		Depth 4314'		Clock No. 4205		hour 12	
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	48.7	.000	146.3	.000	158.5	.000	662.3
1 .208	146.3	.0134	970.9	.399	662.3	.0264	1141.7
2		.0267	1078.8			.0528	1184.6
3 Plugging		.0401	1132.7			.0792	1207.5
4		.0534	1160.6	Plugging		.1056	1220.5
5		.0668	1180.6			.1320	1230.5
6		.0802	1198.6			.1584	1236.5
7		.0935	1208.5			.1848	1241.5
8		.1069	1217.5			.2112	1243.5
9		.1202	1226.5			.2376	1245.5
10		.1336	1231.5			.2640	1249.5
11		.1469	1235.5			.2904	1251.4
12		.1603	1239.5			.3168	1253.4
13		.1737	1243.5			.3432	1254.4
14		.1870	1245.5			.3696	1255.4
15						.3960	1256.4

Reading Interval 5 2 4 Minutes

REMARKS: * - 6 minutes Q - Questionable

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	3"	1'	4219'
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	4008'	
Drill Collars	6"	2.25"	279'	
Handling Sub & Choke Assembly	5"	3"	1' Sub	
Dual CIP Valve	5"	.87"	6'	4282'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4292'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4294'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4301'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4307'
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"	3.84"	4'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	4314'
Total Depth				4317'



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