

FLUID SAMPLE DATA				Date	12-16-77	Ticket Number	281697
Sampler Pressure <u>100</u> P.S.I.G. at Surface				Kind of Job	OPEN HOLE	Halliburton District	FARMINGTON
Recovery: Cu. Ft. Gas <u>.4</u>				Tester	MR. HOEFER	Witness	MR. MOORE
cc. Oil _____				Drilling Contractor	FOUR CORNERS DRILLING COMPANY	BC S	
cc. Water <u>2100</u>				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested	Menefee		
Tot. Liquid cc. <u>2100</u>				Elevation	6929'		
Gravity _____ ° API @ _____ ° F.				Net Productive Interval	206'		
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From	Kelly Bushing		
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth	3020'		
Recovery Water <u>1.38</u> @ <u>46</u> °F. _____ ppm				Main Hole/Casing Size	8 3/4"		
Recovery Mud <u>1.32</u> @ <u>66</u> °F. _____ ppm				Drill Collar Length	336' ?? I.D. 2 1/2"		
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length	2342' ?? I.D. 3.826"		
Mud Pit Sample <u>1.50</u> @ <u>46</u> °F. _____ ppm				Packer Depth(s)	2808' - 2814'		
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve	2786'		
Mud Weight <u>9.1</u> vis <u>58</u> sec							
TYPE	AMOUNT	Depth Back	Surface	Bottom			
Cushion		Ft. Pres. Valve	Choke	3/4" ADJ. Choke 3/4"			
Recovered	800 Feet of	Water and gas cut mud					
Recovered	1000 Feet of	Gas cut water					
Recovered	Feet of						
Recovered	Feet of						
Recovered	Feet of						
Remarks	Charts indicate partial plugging throughout flow periods. Tools either plugging or not fully open during approximately first 22 minutes of final flow period. SEE PRODUCTION TEST DATA SHEET.						
TEMPERATURE	Gauge No. 5679 Depth: 2791' Ft.	Gauge No. 5678 Depth: 3016' Ft.	Gauge No. _____ Depth: _____ Ft.	TIME			
Est. °F.	12 Hour Clock Blanked Off NO	24 Hour Clock Blanked Off YES	Hour Clock Blanked Off	Tool A.M. Opened 4:22 P.M. Opened A.M. Bypass 8:00 P.M.			
Actual 104 °F.	Pressures		Pressures	Pressures		Reported	Computed
	Field	Office	Field	Office	Field	Office	Minutes
Initial Hydrostatic	1386	1304	1404	1409			
First Period	Flow Initial	462	269	624	527		
	Flow Final	585	581	754	729		
	Closed in	993	993	1089	1092		
Second Period	Flow Initial	634	979	754	1082		
	Flow Final	799	804	898	899		
	Closed in	1007	1006	1103	1103		
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic	1324	1324	1397	1425			

Gauge No. 5679		Depth 2791'		Clock No. 14121		12 hour		Ticket No. 281697	
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	.0000 269	.0000	581	.0000	979	.0000	804		
1	.0143 450	.0135	919*	.0741	947**	.0608	993***		
2	.0286 465	.0338	950	.1415	916	.1148	997		
3	.0429 485	.0541	964	.2089	725	.1688	999		
4	.0571 506	.0743	973	.2762	769	.2228	1000		
5	.0714 541	.0946	979	.3436	782	.2768	1001		
6	.0857 559	.1149	983	.4110	804	.3309	1002		
7	.1000 581	.1352	987			.3849	1003		
8		.1554	990			.4389	1004		
9		.1757	992			.4929	1005		
10		.1960	993			.5469	1005		
11	PLUGGING...			PLUGGING...		.6009	1006		
12						.6549	1006		
13						.7090	1006		
14						.7630	1006		
15						.8170	1006		

Gauge No. 5678		Depth 3016'		Clock No. 14128		24 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.
0	.0000 527	.0000	729	.0000	1082	.0000	899
1	.0069 627	.0066	1025*	.0368	1050**	.0301	1090***
2	.0137 634	.0166	1049	.0702	1017	.0569	1094
3	.0206 678	.0265	1062	.1037	821	.0837	1096
4	.0274 699	.0364	1071	.1371	867	.1105	1097
5	.0343 716	.0463	1076	.1706	880	.1372	1098
6	.0411 720	.0563	1081	.2040	899	.1640	1100
7	.0480 729	.0662	1085			.1908	1100
8		.0761	1088			.2176	1100
9		.0861	1090			.2443	1101
10		.0960	1092			.2711	1102
11	PLUGGING...			PLUGGING...		.2979	1102
12						.3247	1102
13						.3514	1103
14						.3782	1103
15						.4050	1103

Reading Interval 2 3 8 Minutes

REMARKS: *Interval = 2 minutes **Interval = 11 minutes ***Interval = 9 minutes

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	2.50"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2342' ??	
Drill Collars	6 1/2"	2 1/4"	336' ??	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.89"	8'	2778'
Dual CIP Sampler	5"	.75"	5'	2786'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.50"	4'	2791'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	1.53"	6'	2808'
Distributor				
Packer Assembly	7 3/4"	1.53"	6'	2814'
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	6 1/2"	2.25"	191'	
Flush Joint Anchor	5 3/4"	2.50"	8'	
Blanked-Off B.T. Running Case	5 3/4"	3.50"	4'	3016'
Total Depth				3020'