

FLUID SAMPLE DATA				Date 2-22-81		Ticket Number 980465	
Sampler Pressure <u>1500</u> P.S.I.G. at Surface				Kind of D.S.T. <u>OPEN HOLE</u>		Halliburton Location <u>FARMINGTON</u>	
Recovery: Cu. Ft. Gas _____				D. DAVIS		Witness <u>BERTO MARTINEZ</u>	
cc. Oil _____				Tester <u>MR. LAMON</u>			
cc. Water _____				Drilling Contractor <u>ARAPAHOE DRILLING COMPANY # 7 sm</u>			
cc. Mud _____				EQUIPMENT & HOLE DATA			
Tot. Liquid cc. _____				Formation Tested <u>Fruitland</u>			
Gravity _____ ° API @ _____ °F.				Elevation <u>5947'</u> Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				Net Productive Interval <u>25'</u> Ft.			
RESISTIVITY				All Depths Measured From <u>Kelly bushing</u>			
CHLORIDE CONTENT				Total Depth <u>2761'</u> Ft.			
Recovery Water <u>1.80</u> @ <u>68</u> °F. <u>952</u> ppm				Main Hole/Casing Size <u>8 3/4"</u>			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Collar Length <u>626'</u> I.D. <u>2.25"</u>			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length <u>2069'</u> I.D. <u>3.826"</u>			
Mud Pit Sample <u>3.71</u> @ <u>68</u> °F. <u>2380</u> ppm				Packer Depth(s) <u>2720-2726'</u> Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve <u>2703'</u> Ft.			
Mud Weight <u>13</u> vis <u>50</u> sec.							
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke Adj. Bottom Choke <u>75"</u>	
Recovered		<u>1170</u> Feet of gas cut water					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET...Severe plugging of anchor perforations.							
TEMPERATURE		Gauge No. <u>349</u>		Gauge No. <u>283</u>		Gauge No.	
		Depth: <u>2708</u> Ft.		Depth: <u>2757</u> Ft.		TIME (00:00-24:00 hrs.)	
		<u>12</u> Hour Clock		<u>12</u> Hour Clock		Hour Clock	
Est. °F.		Blanked Off <u>NO</u>		Blanked Off <u>YES</u>		Tool	
						Opened <u>1007</u>	
Actual <u>110</u> °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		<u>1778</u> <u>1809.8</u>		<u>1811</u> <u>1850.3</u>		Reported Computed	
						Minutes Minutes	
First Period Flow Initial		<u>113</u> <u>219.3</u>		<u>434</u> <u>495.9</u>			
Final		<u>285</u> <u>293.8</u>		<u>507</u> <u>559.7</u>		<u>15</u> <u>15</u>	
Closed in		<u>1572</u> <u>1578.4</u>		<u>1589</u> <u>1589.3</u>		<u>60</u> <u>60</u>	
Second Period Flow Initial		<u>246</u> <u>285.9</u>		<u>567</u> <u>591.0</u>			
Final		<u>692</u> <u>628.2</u>		<u>720</u> <u>735.9</u>		<u>60</u> <u>60</u>	
Closed in		<u>1572</u> <u>1571.1</u>		<u>1576</u> <u>1580.6</u>		<u>122</u> <u>122</u>	
Third Period Flow Initial							
Final							
Closed in							
Final Hydrostatic		<u>1778</u> <u>1779.2</u>		<u>1791</u> <u>1811.9</u>			

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 980465
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0410	2-22-81					On location
0620						Picked up tools
0800						Tools on, tripped in hole
1000						On bottom
1007		Adj. 1/8"	50			Opened tool flowing to pit with a good
						blow
1009		3/8"	70			Good blow
1012		"	60			Good blow
1022		"	60			Closed tool with a good blow
1122		1/8"	40			Opened with a good blow
						Gas to surface, flowing to pit
1124		3/8"	40			Good blow
1126		3/4"	20			"
1136		"	10			"
1146		"	2.5			"
1156		"	2.5			"
1206		"	2.5			"
1216		"	2.5			"
1222		"	2.5			Closed with a good blow
1424						Opened bypass-tripped out of
						hole
1730						Started breaking out tools
1900						Tools broke out
1901						Job complete

Gauge No. 349		Depth 2708'		Clock No. 14283		12 hour		Ticket No. 980465	
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"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000 219.3	.0000	293.8	.0000	285.9	.0000	628.2		628.2
1	.1000 293.8	.0275	1490.7	.4110	628.2	.0690*	1458.1		1458.1
2		.0549	1530.6			.1242	1501.3		1501.3
3		.0824	1546.5			.1794	1521.9		1521.9
4		.1099	1555.8			.2346	1534.6		1534.6
5		.1374	1561.1			.2899	1542.5		1542.5
6		.1648	1565.1			.3451	1548.5		1548.5
7		.1923	1567.8			.4003	1553.8		1553.8
8		.2198	1570.5			.4555	1557.8		1557.8
9		.2472	1572.4			.5107	1560.5		1560.5
10		.2747	1573.8			.5659	1563.1		1563.1
11		.3022	1575.1			.6211	1565.1		1565.1
12		.3296	1576.4			.6763	1567.1		1567.1
13		.3571	1577.1			.7315	1568.5		1568.5
14		.3846	1577.8			.7867	1570.5		1570.5
15		.4120	1578.4			.8420	1571.1		1571.1

Gauge No. 283		Depth 2757'		Clock No. 14121		12 hour		Minutes	
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"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000 495.9	.0000	559.7	.0000	591.0	.0000	735.9		735.9
1	.1020 559.7	.0270	1504.0	.4040	735.9	.0678*	1471.7		1471.7
2		.0540	1542.9			.1220	1513.4		1513.4
3		.0810	1559.1			.1762	1533.5		1533.5
4		.1080	1567.8			.2305	1545.0		1545.0
5		.1350	1573.2			.2847	1553.7		1553.7
6		.1620	1577.2			.3389	1559.1		1559.1
7		.1890	1579.9			.3932	1563.8		1563.8
8		.2160	1581.9			.4474	1567.1		1567.1
9		.2430	1583.9			.5016	1569.8		1569.8
10		.2700	1585.3			.5559	1572.5		1572.5
11		.2970	1586.6			.6101	1574.5		1574.5
12		.3240	1588.0			.6643	1575.9		1575.9
13		.3510	1588.0			.7185	1577.9		1577.9
14		.3780	1588.6			.7728	1578.6		1578.6
15		.4050	1589.3			.8270	1580.6		1580.6

Reading Interval 4

REMARKS: *First interval is equal to 10 minutes.



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	2069'	
Drill Collars	6.25"	2.25"	626'	
Handing Sub & Choke Assembly - Cross	over 4 1/2" FH x 4 1/2" Reg.			
Dual CIP Valve	5.03"	.87"	7'	2696'
Dual CIP Sampler	5"	.75"	5'	2703'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4'	2708'
Hydraulic Jar	5.03"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7.75"	1.53"	6'	2720'
Distributor				
Packer Assembly	7.75"	1.53"	6'	2726'
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	5.75"	3"	25'	
Blanked-Off B.T. Running Case	5.75"	2.44"	4'	2757'
Total Depth				2761'