

FLUID SAMPLE DATA				Date 2-12-78		Ticket Number 001420	
Sampler Pressure _____ P.S.I.G. or Surface				Kind of Job OPEN HOLE TEST		Halliburton District HOBBS	
Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud 1700 Tot. Liquid cc. 1700				Tester C.L. CASTELLOW		Witness BILL HUNT	
Gravity _____ ° API @ _____ ° F.				Drilling Contractor RIAL DRILLING COMPANY		PW	
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
RESISTIVITY _____ CHLORIDE CONTENT _____				Formation Tested Morrow			
Recovery Water _____ @ _____ ° F. _____ ppm				Elevation 4055' K.B. _____ Ft.			
Recovery Mud _____ @ _____ ° F. _____ ppm				Net Productive Interval 9' _____ Ft.			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				All Depths Measured From Rotary Table			
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Total Depth 12952' _____ Ft.			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size 8 3/4"			
Mud Weight 9.3 vis 54 sec				Drill Collar Length 430' I.D. 2.25"			
				Drill Pipe Length 12373' I.D. 3.826"			
				Packer Depth(s) 12833' - 12841' _____ Ft.			
				Depth Tester Valve 12810' _____ Ft.			
Cushion		TYPE	AMOUNT	Depth Back Ft.	Surface Choke	Bottom Choke	
Recovered		734	Feet of	very slightly gas cut mud.	1" Adj.	7/8"	
Recovered			Feet of				
Recovered			Feet of				
Recovered			Feet of				
Recovered			Feet of				
Remarks		Charts indicate partial plugging of tools during latter part of initial flow period and throughout final flow period.					
		SEE PRODUCTION TEST DATA SHEET.....					
TEMPERATURE		Gauge No. 1516	Gauge No. 1496	Gauge No.	TIME		
Depth:		12815 Ft.	12948 Ft.	Depth:			
24 Hour Clock		24 Hour Clock	24 Hour Clock	Hour Clock			
Est. °F.		Blanked Off no	Blanked Off yes	Blanked Off			
Actual 168°F.		Pressures		Pressures		Tool Opened 400 A.M.	
		Pressures		Pressures		Opened A.M.	
		Pressures		Pressures		Bypass 1007 P.M.	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		6167	6235	6275	6298	Reported	Computed
Flow Initial		217	320	355	411	Minutes	Minutes
Flow Final		260	367	355	433		
Closed in		1086	1168	1155	1222	30	
Flow Initial		260	282	355	380	60	
Flow Final		260	374	355	447	97	
Closed in		826	865	888	916	180	
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		6124	6251	6231	6312		

Core temp. _____ Bottom hole _____ Surf. temp. _____ °F Ticket No. 001420
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date 2-11-78

Time a.m.
 p.m.

Choke
Size

Surface
Pressure
psi

Gas
Rate
MCF

Liquid
Recte
BPD

Remarks

1000

Started tools in hole.

1600

Bubble
7/16"

Hose

Opened tool - slid 20'.

1602

31

Opened with a fair blow.

1610

3

Good blow.

1630

10

1#

Closed tool with a good blow.

1730

1/4"

Reopened tool with a good blow.

1800

11

1

Good blow.

1830

13

2

t

1900

55

Dead - no blow.

1907

13

Closed tool - blow dead - no gas - no
blow.

2207

Opened bypass.

Jarred packers loose.

PRODUCTION TEST DATA

LITTEL: 6 Dec 1964 8:24

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	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6.00"	2.50"	1.00'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	12373'	
Drill Collars	6.50"	2.25"	430'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5.00"	.87"	7.00'	12803'
Hydro-Spring Tester	5.00"	.75"	5.00'	12810'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.00"	3.06"	5.00'	12815'
Hydraulic Jar	5.00"	1.75"	5.00'	
VR Safety Joint	5.00"	1.00"	3.00'	
Pressure Equalizing Crossover				
Packer Assembly	7.75"	1.53"	6.00'	12833'
Distributor	5.00"	1.68"	2.00'	
Packer Assembly	7.75"	1.53"	6.00'	12841'
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	5.75"	1.50"	4.00'	
Side Wall Anchor				
Drill Collars	6.50"	2.25"	90.00'	
Flush Joint Anchor	5.75"	3.50"	9.00'	
Blanked-Off B.T. Running Case	5.75"	3.50"	4.00'	12948'
Total Depth				12952'