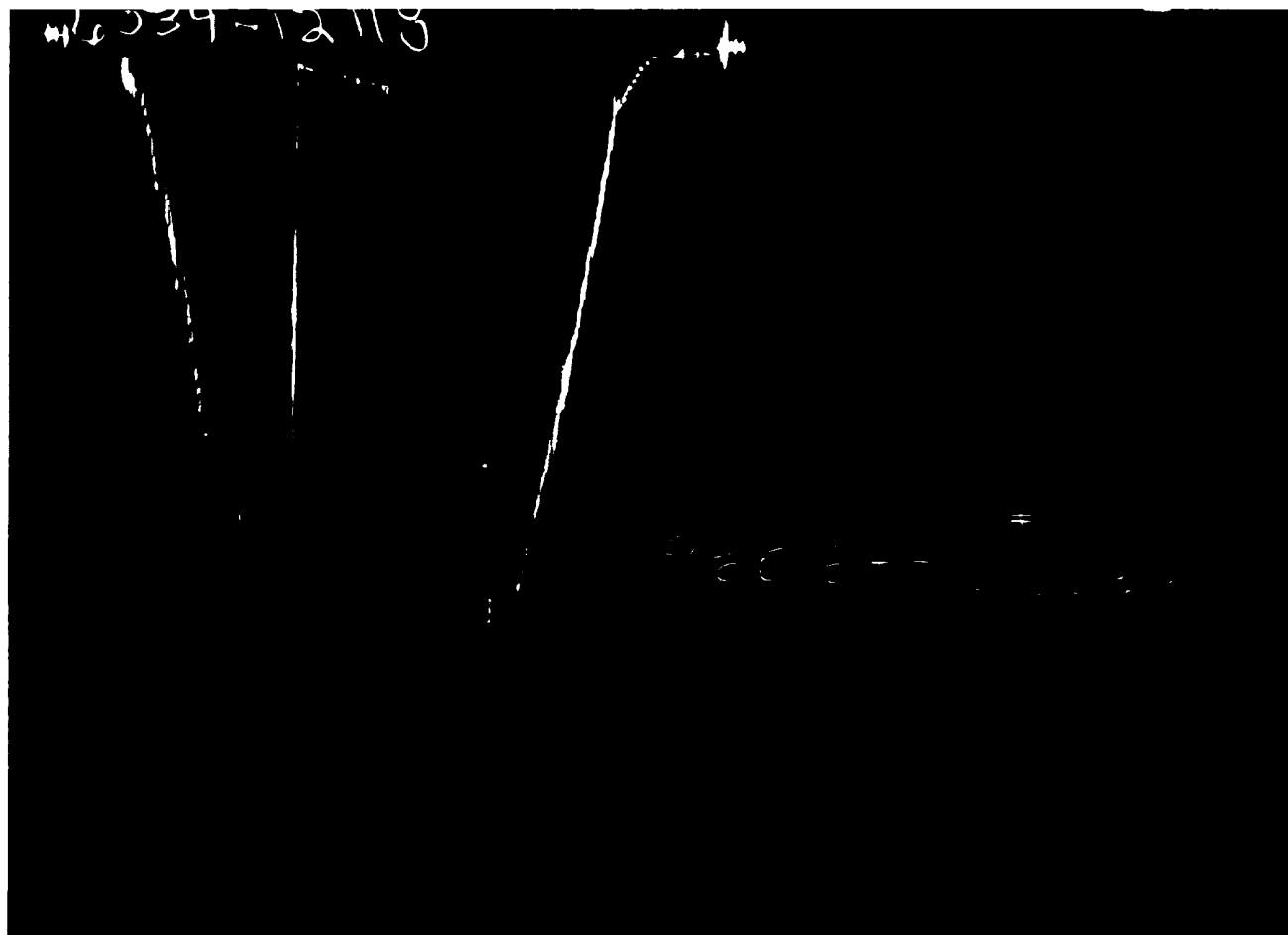
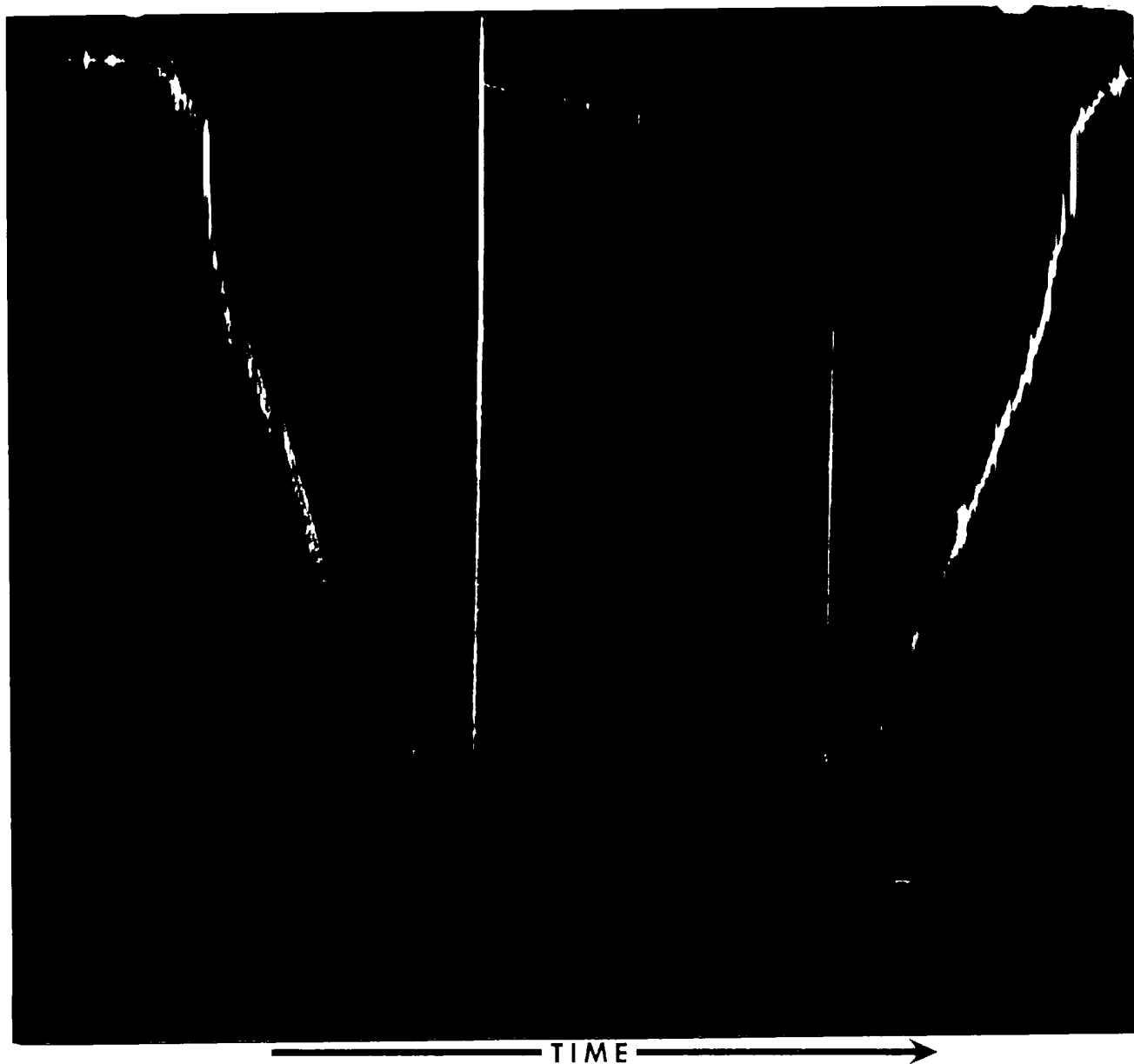
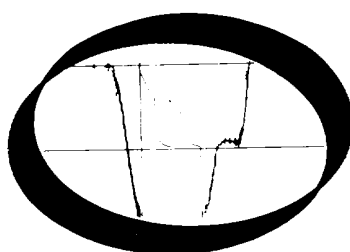


↓ PRESSURE



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

Formation Testing Service Report



NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{or}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100 °F.

FLUID SAMPLE DATA				Date 2-1-81		Ticket Number 980844	
Sampler Pressure <u>25</u> P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud <u>2250</u> Tot. Liquid cc. _____ Gravity _____ ° API @ _____ ° F. Gas/Oil Ratio _____ cu. ft./bbl.				Kind of D.S.T. OPEN HOLE		Halliburton Location FARMINGTON	
				Tester WRIGHT		Witness BOLLSCHWEILER	
				Drilling Contractor BAYLESS # 5		NM	
EQUIPMENT & HOLE DATA							
				Formation Tested Dakota			
				Elevation <u>6357'</u> Ft.			
				Net Productive Interval <u>85'</u> Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth <u>6247'</u> Ft.			
				Main Hole/Casing Size <u>7 7/8"</u>			
				Drill Collar Length <u>499'</u> I.D. <u>2.25"</u>			
				Drill Pipe Length <u>5610.5'</u> I.D. <u>3.340"</u>			
				Packer Depth(s) <u>6141' - 6147'</u> Ft.			
				Depth Tester Valve <u>6124'</u> Ft.			
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion		NONE		NONE		3/4" ADJ. Bottom Choke .75"	
Recovered <u>320'</u> Feet of drilling mud							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Remarks CHARTS INDICATE PARTIAL PLUGGING OF TOOLS THROUGHOUT BOTH FLOW PERIODS...							
SEE PRODUCTION TEST DATA SHEET FOR THE REMAINDER OF THE REMARKS..							
TEMPERATURE		Gauge No. <u>6040</u> Depth: <u>6126.5</u> Ft.		Gauge No. <u>6039</u> Depth: <u>6242.5</u> Ft.		Gauge No. _____ Ft.	
		<u>12</u> Hour Clock		<u>24</u> Hour Clock		TIME (00:00-24:00 hrs.)	
Est. °F.		Blanked Off NO		Blanked Off YES		Blanked Off	
Actual <u>185°F.</u>		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		<u>2961</u> <u>2971.4</u>		<u>3078</u> <u>3020.4</u>			
First Period	Flow Initial	<u>68</u> <u>68.9</u>		<u>109</u> <u>124.6</u>			
	Flow Final	<u>95</u> <u>94.5</u>		<u>136</u> <u>146.3</u>			
	Closed in	<u>284</u> <u>279.7</u>		<u>325</u> <u>331.9</u>			
Second Period	Flow Initial	<u>95</u> <u>121.6</u>		<u>163</u> <u>168.0</u>			
	Flow Final	<u>189</u> <u>198.6</u>		<u>230</u> <u>247.9</u>			
	Closed in	<u>944</u> <u>954.3</u>		<u>988</u> <u>1009.4</u>			
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		<u>2947</u> <u>2942.9</u>		<u>2996</u> <u>2989.1</u>			

Legal Location Sec. - Twp. - Rng. **15 - 26N - 11W**

Lease Name **WILDCAT**

Field Area **SAN JUAN**

County **NEW MEXICO**

State **NEW MEXICO**

0. H. RANDALL

7-E

1

6147' - 6247'

ENERGY RESERVE GROUP

Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ .75 _____ Surf. temp _____ °F Ticket No. _____
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4"	3.340"	5610.5'	
Drill Collars				
Reversing Sub	6"	3"	1'	5610.5
Water Cushion Valve				
Drill Pipe				
Drill Collars	6 1/4"	2 1/4"	499'	
Handling Sub & Choker Assembly X-OVER	6"	3"	2'	
Dual CIP Valve	5"	.75"	7'	6118.2'
Dual CIP Sampler	5"	.75"	5'	6124'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.75"	4'	6126.5'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	6140.9'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	6146.7'
Flush Joint Anchor				
Pressure Equalizing Tube				
* Blanked-Off B.T. Running Case X-OVER	6"	3"	1'	
Drill Collars	6 1/4"	2 1/4"	62'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars X-OVER	6"	3"	1'	
Flush Joint Anchor	5 3/4"	3 1/2"	30'	
Blanked-Off B.T. Running Case	5 3/4"	2 1/2"	4.5'	6242.5'
Total Depth				6247'