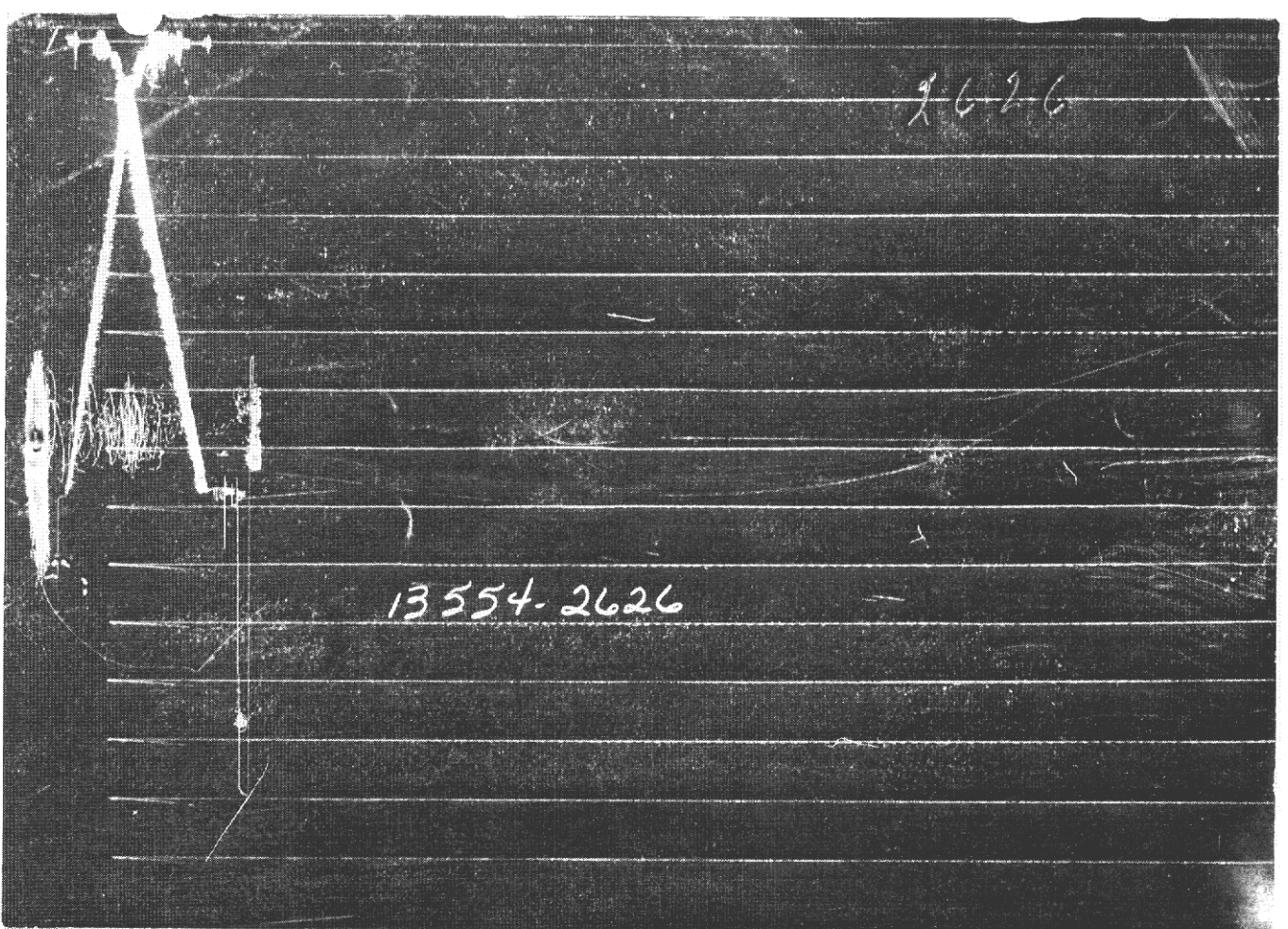


Each Horizontal Line Equal to 1000 p.s.i.



PERF 10480-10510

<b>FLUID SAMPLE DATA</b>		Date	2-21-72	Ticket Number	13554
Sampler Pressure _____ P.S.I.G. at Surface		Kind of Job	HOOK WALL	Halliburton District	TANANGER
Recovery: Cu. Ft. Gas _____		Tester	MR. IRELAND	Witness	MR. BUMBARD
cc. Oil _____		Drilling Contractor	"ZAPATA EXPLORER"	IC	
cc. Water _____		<b>EQUIPMENT &amp; HOLE DATA</b>			
cc. Mud _____		Formation Tested	Danian		
Tot. Liquid cc. _____		Elevation	337' Ft.		
Gravity _____ ° API @ _____ ° F.		Net Productive Interval	- Ft.		
Gas/Oil Ratio _____ cu. ft./bbl.		All Depths Measured From	Kelly Bushing		
		Total Depth	11,000' PBD Ft.		
		Main Hole/Casing Size	7" 29#		
		Drill Collar Length	622.53' I.D. 2.25"		
		Drill Pipe Length	9619.04' I.D. 2.75"		
		Packer Depth(s)	10,280' Ft.		
		Depth Tester Valve	- Ft.		

TYPE	AMOUNT	Depth	Back Pres. Valve	Surface Choke	Bottom Choke
Cushion	FULL ACID	Ft.	-	-	-
Recovered	Feet of				
Recovered	Feet of				
Recovered	Feet of				
Recovered	Feet of				
Recovered	Feet of				

Remarks Went in hole - set packer and released same. Spotted acid across the perforations. Set packer and attempted to pump into formation. Unable to pump into formation with a maximum surface pressure of 7600#. Released pressure after 2 hours and reversed out - pulled out of hole.

TEMPERATURE	Gauge No. 3108		Gauge No. 3175		Gauge No. 2626		TIME	
	Depth:	10,587' Ft.	Depth:	10,591' Ft.	Depth:	10,596' Ft.		
Est. 262 °F.	72 Hour Clock		72 Hour Clock		72 Hour Clock		Tool	A.M.
	Blanked Off ??? YES		Blanked Off ??? YES		Blanked Off ??? YES		Opened	P.M.
Actual °F.	Pressures		Pressures		Pressures		Tool	A.M.
	Field	Office	Field	Office	Field	Office	Closed	P.M.
Initial Hydrostatic	-	7722	-	7659	-	7680	Reported	Computed
							Minutes	Minutes
First Period	Initial							
Flow	Final	MAXIMUM	MAXIMUM	MAXIMUM				
	Closed in	PRESSURE 13,016	PRESSURE 12,943	PRESSURE 12,944				
Second Period	Initial							
Flow	Final							
	Closed in							
Third Period	Initial							
Flow	Final							
	Closed in							
Final Hydrostatic	-	UNABLE TO READ	-	7767	-	7825		

Legal Location Sec. - Twp. - Rng. 2/4  
 Lease Name  
 Well No. 8AX  
 Test No. 10,280' - 11,000'  
 Tested Interval  
 Field Area TORFIELD  
 County NORTH SEA  
 State NORWAY  
 Lease Owner/Company Name PHILLIPS PETROLEUM COMPANY

PHILLIPS PETROLEUM COMPANY  
TICKET NUMBER 13554

NO.	I.D.	O.D.	DESCRIPTION	LENGTH	DEPTH
1			Halliburton Test Head		
1	2.68"	6.25"	LT-20 Swivel Assembly		
1			TIW Valve		
1	2.75"		Sub-4½" IF Box x 3½" EUE Pin	5.00'	
117	2.99"	3.50"	3 1/2" EUE Tubing	3616.59'	3611.59'
195	2.75"	3.50"	3 1/2" EUE Tubing	6002.45'	9614.04'
1	2.10"	4.30"	Sub-3½" EUE Box x 2 7/8" IF Pin	.85'	9614.89'
2	2.00"	4.38"	Slip Joints	29.85'	9644.74'
1	2.00"	4.30"	Sub-2 7/8" IF Box x 3 1/2" IF Pin	0.71'	9645.45'
21	2.25"	4.75"	Drill Collars	622.53'	10267.98'
1	2.10"	4.10"	Sub-3 1/2" IF Box x 2 7/8" EUE pin	0.71'	10268.69'
1	2.44"	4.62"	RTTS Circulating Valve		
1	2.44"	5.00"	RTTS Safety Joint	12.25'	10280.94'
1	2.18"	5.75"	RTTS Packer Body		
1	2.12"	3.75"	Sub-2 7/8" EUE Pin x 3 1/2" EUE Pin	0.43'	10281.37'
8	2.99"	3.50"	3 1/2" EUE Tubing	240.00'	10521.37'
2	2.99"	3.50"	3 1/2" EUE Tubing Perforated Tail Pipe	61.20'	10582.57'
1	2.15"	4.30"	Sub-3 1/2" EUE Box x 3 1/8" 8n Pin	0.96'	10583.53'
1	3.50"	3.75"	Recorder Case No. 3108	4.12'	10587.65'
1	3.50"	3.75"	Recorder Case No. 3175	4.12'	10591.79'
1	1.62"	3.75"	Sub-3 1/8" 8n Box x 2 3/8" IF Pin	0.92'	10592.69'
1	2.50"	3.75"	Recorder Case No. 2626	4.12'	10596.81'

10583.53  
120  
-----  
10583.53

# NOMENCLATURE

<b>b</b>	= Approximate Radius of Investigation .....	Feet
<b>b<sub>1</sub></b>	= Approximate Radius of Investigation (Net Pay Zone h <sub>1</sub> ) .....	Feet
<b>D.R.</b>	= Damage Ratio .....	—
<b>EI</b>	= Elevation .....	Feet
<b>GD</b>	= B.T. Gauge Depth (From Surface Reference) .....	Feet
<b>h</b>	= Interval Tested .....	Feet
<b>h<sub>1</sub></b>	= Net Pay Thickness .....	Feet
<b>K</b>	= Permeability .....	md
<b>K<sub>1</sub></b>	= Permeability (From Net Pay Zone h <sub>1</sub> ) .....	md
<b>m</b>	= Slope Extrapolated Pressure Plot (Psi <sup>2</sup> /cycle Gas) .....	psi/cycle
<b>OF<sub>1</sub></b>	= Maximum Indicated Flow Rate .....	MCF/D
<b>OF<sub>2</sub></b>	= Minimum Indicated Flow Rate .....	MCF/D
<b>OF<sub>3</sub></b>	= Theoretical Open Flow Potential with/Damage Removed Max. ....	MCF/D
<b>OF<sub>4</sub></b>	= Theoretical Open Flow Potential with/Damage Removed Min. ....	MCF/D
<b>P<sub>s</sub></b>	= Extrapolated Static Pressure .....	Psig.
<b>P<sub>f</sub></b>	= Final Flow Pressure .....	Psig.
<b>P<sub>or</sub></b>	= Potentiometric Surface (Fresh Water *) .....	Feet
<b>Q</b>	= Average Adjusted Production Rate During Test .....	bbls/day
<b>Q<sub>1</sub></b>	= Theoretical Production w/Damage Removed .....	bbls/day
<b>Q<sub>g</sub></b>	= Measured Gas Production Rate .....	MCF/D
<b>R</b>	= Corrected Recovery .....	bbls
<b>r<sub>w</sub></b>	= Radius of Well Bore .....	Feet
<b>t</b>	= Flow Time .....	Minutes
<b>t<sub>o</sub></b>	= Total Flow Time .....	Minutes
<b>T</b>	= Temperature Rankine .....	°R
<b>Z</b>	= Compressibility Factor .....	—
<b>μ</b>	= Viscosity Gas or Liquid .....	CP
<b>Log</b>	= Common Log	

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