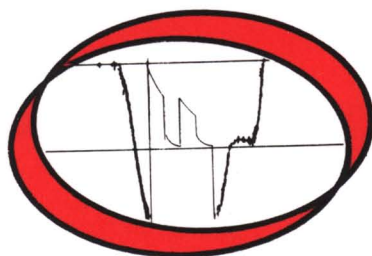
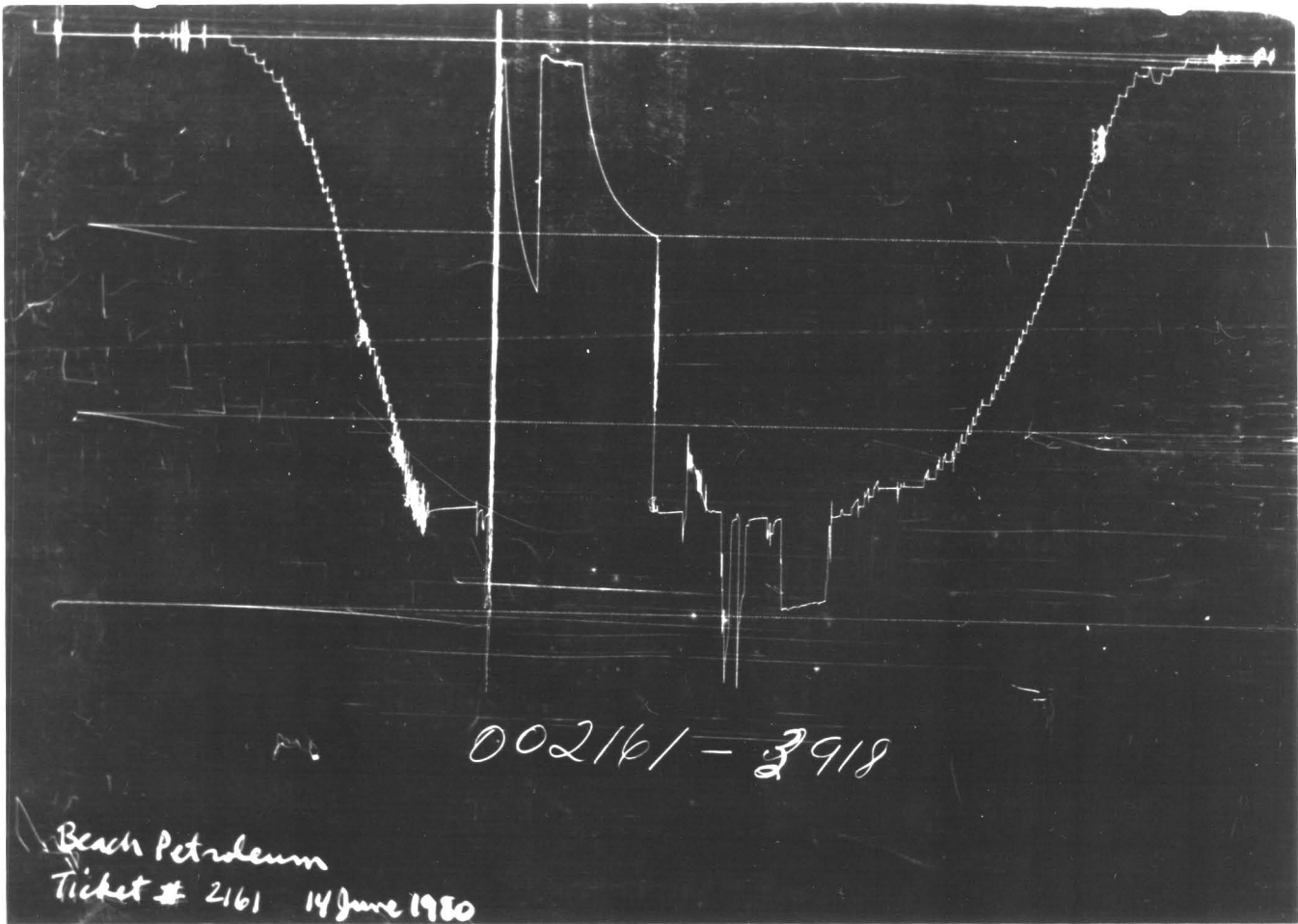


# **Formation Testing Service Report**

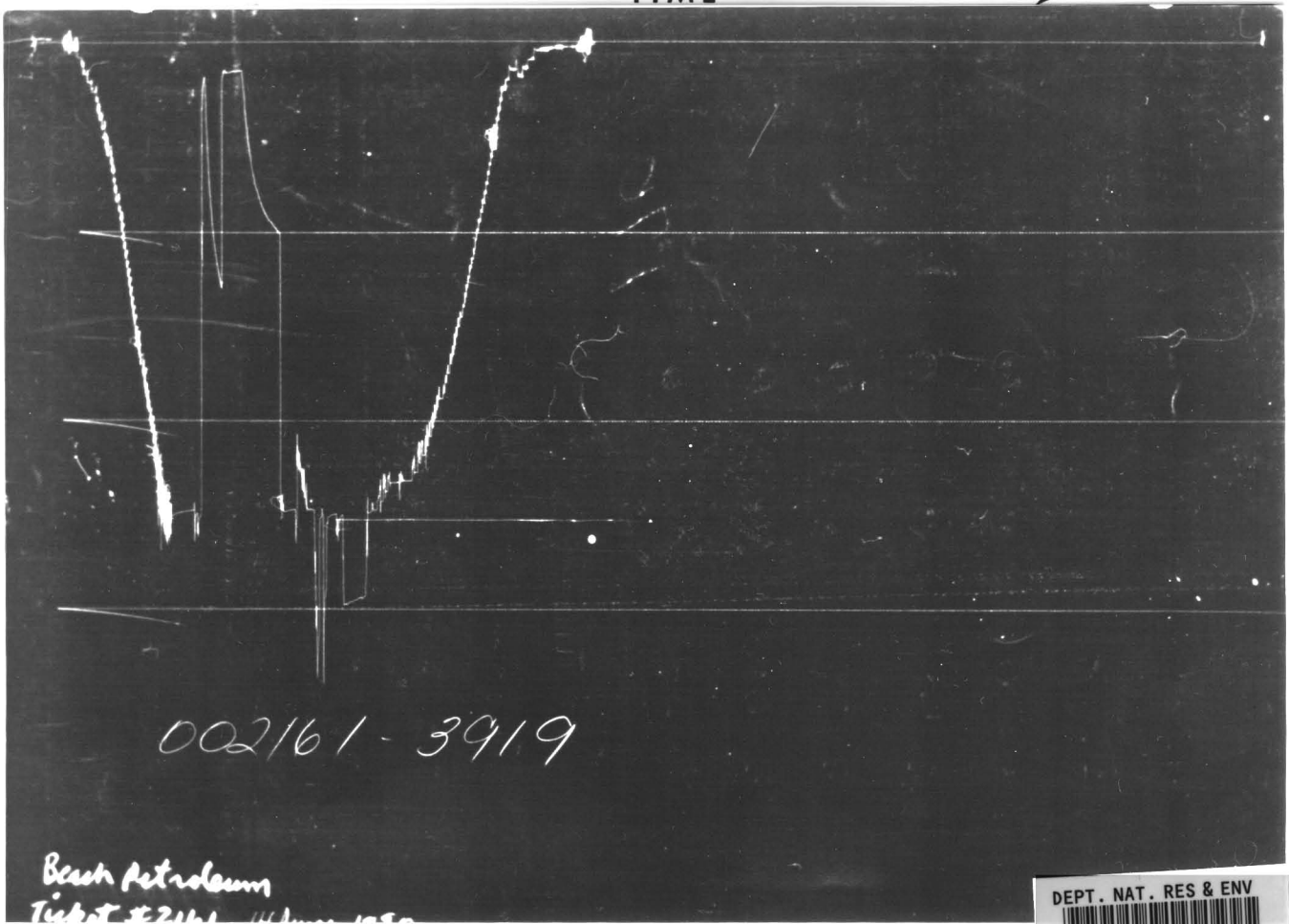


**HALLIBURTON SERVICES**  
DUNCAN, OKLAHOMA

PRESSURE



TIME



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

DEPT. NAT. RES & ENV  
  
 PE906828

NORTH PARATTIE  
 Lease Name  
 Well No. 3  
 Test No. 1  
 4500 - 4552'  
 Tested Interval  
 BEACH PETROLEUM  
 Lease Owner/Company Name

Legal Location  
 Sec. - Twp. - Rng.  
 Field Area  
 ARRAISAL  
 County  
 PT. CAMPBELL  
 State  
 VICTORIA

FLUID SAMPLE DATA				Date	6-14-80	Ticket Number	002161				
Sampler Pressure _____ P.S.I.G. at Surface				Kind of D.S.T.	OPEN HOLE	Halliburton Location	SALE AUSTRALIA				
Recovery: Cu. Ft. Gas _____					Tester	S. BURGESS	Witness	W. LAWSON			
cc. Oil _____				Drilling Contractor	O D & E		SM				
cc. Water _____				EQUIPMENT & HOLE DATA							
cc. Mud _____				Formation Tested	Otway						
Tot. Liquid cc. _____				Elevation	175' to Kelly bushing Ft.						
Gravity _____ ° API @ _____ ° F.				Net Productive Interval	51' Ft.						
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From	Kelly bushing						
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth	4552' Ft.						
Recovery Water _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size	8.5"						
Recovery Mud _____ @ _____ ° F. _____ ppm				Drill Collar Length	394.57'	I.D.	2.375"				
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Pipe Length	4077.5'	I.D.	3.826"				
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Packer Depth(s)	4500' Ft.						
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Depth Tester Valve	4489' Ft.						
Mud Weight _____ 10.2 _____ vis _____ 47 _____ sec.				Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	7 13 / 16"	Bottom Choke	.75"
Recovered _____ Feet of				No recovery reported				Field Area		ARRAISAL	
Recovered _____ Feet of								Med. From Tester Valve			
Recovered _____ Feet of											
Recovered _____ Feet of											
Recovered _____ Feet of											
Remarks				SEE PRODUCTION TEST DATA SHEET							
TEMPERATURE				Gauge No. 3918	Gauge No. 3919	Gauge No.	TIME				
Depth: 4490 Ft.				Depth: 4548 Ft.	Depth:	(00:00-24:00 hrs.)					
Est. 170 ° F.				12 Hour Clock	24 Hour Clock	Hour Clock	Tool				
Blanked Off NO				Blanked Off YES	Blanked Off	Opened 1656					
Actual ° F.				Pressures		Pressures		Opened Bypass 1830			
				Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic				2462	2458.6	2486	2482.8			Minutes	Minutes
First Period	Flow Initial				108	172.5	161	348.5			
	Flow Final				108	102.4	161	180.9		5	4
	Closed in				1341	1315.5	1313	1302.6		20	20
Second Period	Flow Initial				81	84.9	134	215.8			
	Flow Final				108	113.2	134	147.4		25	25
	Closed in				993	1010.6	993	1014.6		44	45
Third Period	Flow Initial										
	Flow Final										
Closed in											
Final Hydrostatic				2462	2451.9	2486	2478.6				



Gauge No. 3918		Depth 4490'		Clock No. 7852		12 hour		Ticket No. 002161	
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	172.5	.0000	.0000	84.9	.0000			113.2
1	.0065	137.4	.0136	.0328	82.2	.0339			424.5
2	.0130	106.4	.0272	.0656	103.7	.0678			602.9
3	.0195	103.7	.0408	.0984	107.8	.1017			728.6
4	.0260	102.4	.0544	.1312	111.8	.1356			812.8
5			.0680	.1640	113.2	.1695			872.9
6			.0816	.1104.2		.2033			921.1
7			.0952	.1167.1		.2372			959.8
8			.1088	.1224.5		.2711			989.3
9			.1224	.1275.4		.3050			1010.6
10			.1360	.1315.5					
11									
12									
13									
14									
15									

Gauge No. 3919		Depth 4548'		Clock No. 16055		24 hour			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$		
0	.0000	348.5	.0000	.0000	215.8	.0000			
1	.0033	254.6	.0065	.0166	147.4	.0164			
2	.0065	221.1	.0130	.0332	156.8	.0329			
3	.0098	191.6	.0195	.0498	150.1	.0493			
4	.0130	180.9	.0260	.0664	148.7	.0658			
5			.0325	.1031.9	147.4	.0822			
6			.0390	.1101.9		.0986			
7			.0455	.1166.6		.1151			
8			.0520	.1219.9		.1315			
9			.0585	.1266.6		.1480			
10			.0650	.1302.6					
11									
12									
13									
14									
15									
Reading Interval	1		2		5		5		Minutes

REMARKS:

W

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	4077.5'	
Drill Collars	6.50"	2.375"	394.57'	
Handling Sub & Choke Assembly	5.75"	2.58"	3.31'	
Dual CIP Valve	5"	.89"	4'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5.02'	4489'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4.03'	4490'
Hydraulic Jar	5"	1.75"	3.28'	
VR Safety Joint	5"	1"	2.36'	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly	7.50"	1.37"	6'	4500'
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6.50"	2.375"	30'	
4 1/2" X hole Pin x 3 1/2" H Box	6"	2.75"	10'	
Flush Joint Anchor	5"	2.370"	15'	
3 1/2" FH Pin x 4 1/2" X Hole box	5.75"	2"	7'	
Blanked-Off B.T. Running Case	5"	2.44"	4.03'	4548'
Total Depth				

# 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>o</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.