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NUMBER 3230

PEL 5 AND PEL 6, MOOMBA BLOCK

EROMANGA AND COOPER BASINS

KIRBY 1

TEST REPORTS

Submitted by

Delhi Petroleum Pty Ltd, South Australian Oil and Gas Corporation
Pty Ltd and Santos Ltd

1992

SCANNED

© 14/6/90

MINES AND ENERGY
SOUTH AUSTRALIA



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ENVELOPE 3230

TENEMENT: PEL 5 and PEL 6, Moomba Block; Eromanga and Cooper Basins

TENEMENT HOLDER: Delhi Petroleum Pty Ltd (operator), Santos Ltd, Vamgas Ltd and South Australian Oil and Gas Corporation Pty Ltd

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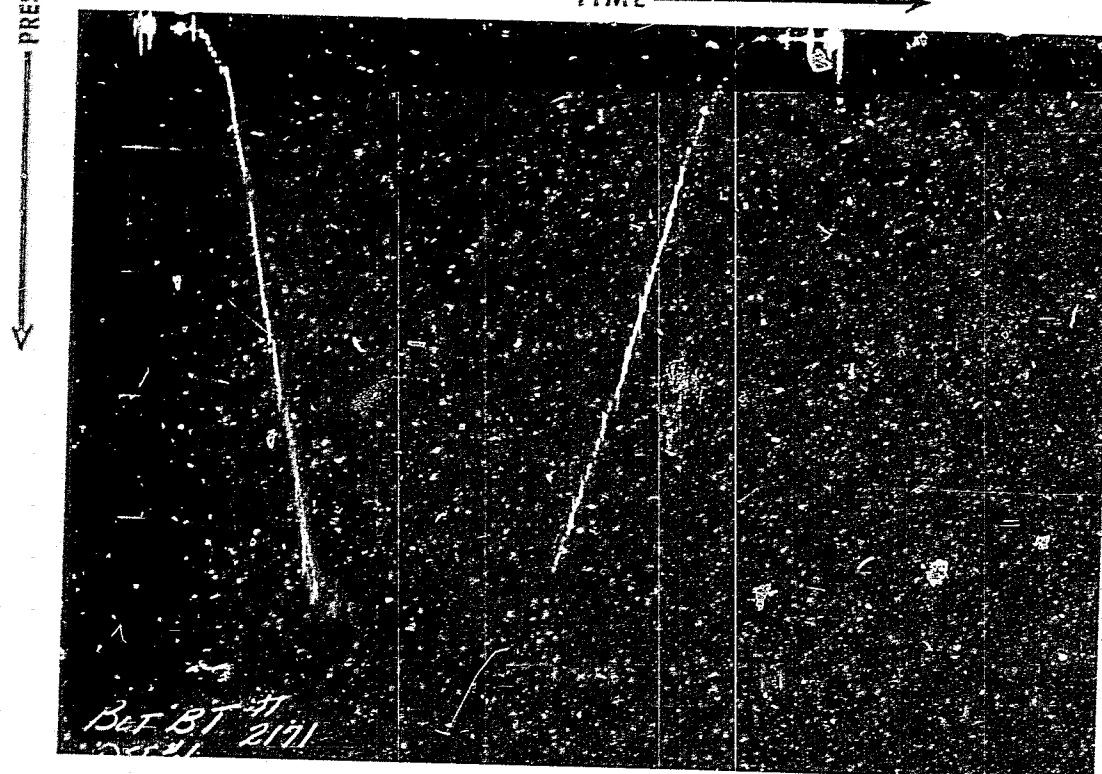
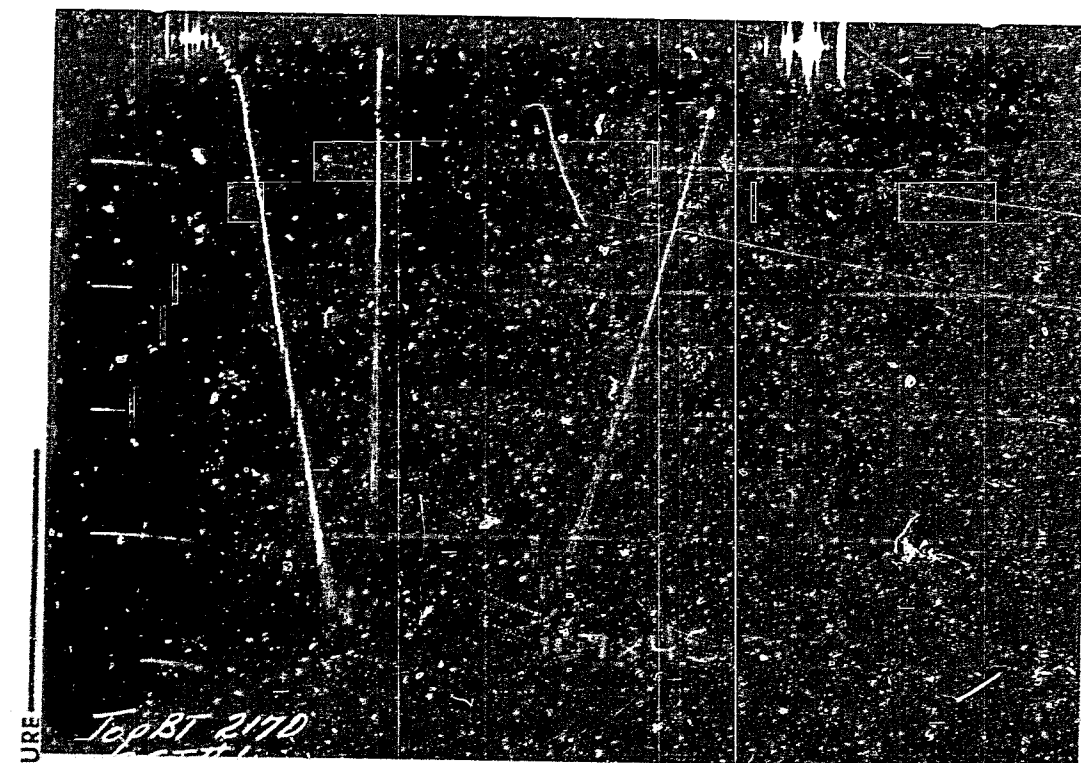
	MESA NO.
REPORTS: Halliburton Services, 1978. Formation testing service report, DST 1 (10/8/78).	3230 R 1 Pgs 3-7
Halliburton Services, 1978. Formation testing service report, DST 2 (14/8/78).	3230 R 2 Pgs 8-12
Halliburton Services, 1978. Formation testing service report, DST 3 (17/8/78).	3230 R 3 Pgs 13-17
Halliburton Services, 1978. Formation testing service report, DST 4 (18/8/78).	3230 R 4 Pgs 18-21
Halliburton Services, 1978. Formation testing service report, DST 5 (2/9/78).	3230 R 5 Pgs 22-26
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Halliburton Services, 1978. Formation testing service report, DST 7 (12/9/78).	3230 R 7 Pgs 32-35
Halliburton Services, 1978. Formation testing service report, DST 8 (16/9/78).	3230 R 8 Pgs 36-40
Halliburton Services, 1978. Formation testing service report, DST 9 (26/9/78).	3230 R 9 Pgs 41-45
Halliburton Services, 1978. Formation testing service report, DST 10 (2/10/78).	3230 R 10 Pgs 46-48
Halliburton Services, 1978. Formation testing service report, DST 11 (4/10/78).	3230 R 11 Pgs 49-51
Halliburton Services, 1978. Formation testing service report, DST 12 (18/10/78).	3230 R 12 Pgs 52-56
Gearhart Core Data Pty Ltd, 1992. Core gamma ray plots for Toolachee and Basilon Formation cores (contractor's report for Santos Ltd, 1992).	3230 R 13 Pgs 57-61
PLAN Fig. Synthetic seismogram [primaries only] (South Australian Oil and Gas Corporation Pty Ltd, 11/8/82).	3230 R 14 Pg. 62 +T A3

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SEPARATELY HELD DATA

TRANSPARENCIES: (Held in Document Storage Centre)

Plans marked with +T on contents page are also held as transparencies in Cylinder 3487/1.



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

NOMENCLATURE

L	Length of Core	Feet
DR	Damage Ratio	
EL	Elevation	Feet
GD	Gas Density	lb./cu. ft.
h	Interval Thickness	Feet
h_{no}	Net Pay Thickness	Feet
K	Permeability	md
K_{no}	Permeability From Net Pay Zone In	md
m	Slope Extrapolated Pressure Plot Per Cycle Gas	psi/cycle
OF_{max}	Maximum Indicated Flow Rate	MCF/D
OF_{min}	Minimum Indicated Flow Rate	MCF/D
OF_{max}	Theoretical Open Flow Potential with Damage Removed Max	MCF/D
OF_{min}	Theoretical Open Flow Potential with Damage Removed Min	MCF/D
P_s	Extrapolated Static Pressure	Psi
P_e	Final Flow Pressure	Psi
P_{ow}	Potentiometric Surface Fresh Water	Feet
Q	Average Adjusted Production Rate During Test	bbbls/day
Q_{th}	Theoretical Production w. Damage Removed	bbbls/day
Q_g	Measured Gas Production Rate	MCF/D
R	Corrected Recovery	bbbls
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	

* Flow rate is corrected to standard conditions (14.7 psia, 60°F) unless otherwise noted.

00004

FLUID SAMPLE DATA				Date	8-12-78	Ticket Number	107845
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job	OPEN HOLE TEST	Halliburton District	MOOMBA
Recovery Cu Ft Gas _____				Tester	WALLACE	Witness	MC KAY
cc Oil _____				Drilling Contractor RICHTER DRILLING COMPANY RIG #6 PW			
cc Water _____				EQUIPMENT & HOLE DATA			
cc Mud _____				Formation Tested _____			
Tot. Liquid cc. _____				Elevation _____ Ft.			
Gravity _____ * API @ _____ * F.				Net Productive Interval 8399.50' - 8464' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Rotary Table 8464' Ft.			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth _____ Ft.			
Recovery Water _____ @ _____ * F. _____ ppm				Main Hole/Casing Size 8 1/2"			
Recovery Mud _____ @ _____ * F. _____ ppm				Drill Collar Length 514.70' I.D. 2 7/8"			
Recovery Mud Filtrate _____ @ _____ * F. _____ ppm				Drill Pipe Length 7853.85' I.D. 3.826"			
Mud Fil Sample _____ @ _____ * F. _____ ppm				Packer Depth(s) 8399.50' Ft.			
Mud Fil Sample Filtrate _____ @ _____ * F. _____ ppm				Depth Tester Valve 8381.15' Ft.			
Mud Weight _____ vis _____ sec				Surface Choke 7/16" Bottom Choke _____			
TYPE AMOUNT				Depth Back Pres. Valve _____			
Cushion _____				Cushion _____			
Recovered 640 Feet of gas with gas cut mud on top (approximately 80'), free				Recovered _____ Feet of condensate - distillate oil on bottom.			
Recovered _____ Feet of Above is incorrect				Recovered 80 Feet of gas cut mud with a trace of condensate			
Recovered _____ Feet of				Remarks			
- SEE PRODUCTION TEST DATA SHEET -							
TEMPERATURE							
Gauge No. 2170		Gauge No. 2171		Gauge No. _____		TIME	
Depth: 8385.30 Ft.		Depth: 8460 Ft.		Depth: _____ Ft.		Tool _____ A.M.	
24 Hour Clock		24 Hour Clock		Hour Clock		Opened 1353 P.M.	
Blanked Off No		Blanked Off YES		Blanked Off _____		Opened _____ A.M.	
Actual 280 * F.		Pressures		Pressures		Bypass 1753 P.M.	
Field		Office		Field		Office	
Initial Hydrostatic 4629		4611		4681		4647	
Flow Initial 82		121		99		122	
Flow Final 245		248		256		251	
Closed In 4096		4102		4092		4100	
Second Period Flow Initial							
Flow Final							
Closed In							
Third Period Flow Initial							
Flow Final							
Closed In							
Final Hydrostatic 4532		4437		4567		4446	

FORMATION TEST DATA

LITTLE'S 102548 3H 9/76

KIRBY

Lease Name

Well No.

Test No.

8399.50' - 8464'

Tested Interval

Field WILDCAT

County SQ. AUSTRALIA

State AUSTRALIA

DELHI INTERNATIONAL OIL CORPORATION

Lease Owner/Company Name

07845

[illegible]

Gauge No. 2170					Depth 8385.30'		Clock No. 7375			24 hour		Ticket No. 107845			
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	121	.000		248										
1	.0503*	114	.0202**		2738										
2	.0938	157	.0573		3778										
3	.1374	186	.0943		3911										
4	.1809	222	.1314		3969										
5	.2245	240	.1685		4006										
6	.2680	248	.2055		4029										
7			.2426		4047										
8			.2796		4060										
9			.3167		4068										
10			.3538		4078										
11			.3908		4084										
12			.4279		4091										
13			.4649		4094										
14			.5020		4099										
15			.5390		4102										

Gauge No. 2171					Depth 8460'		Clock No. 8083			24 hour		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000	122	.000		251							
1	.0506*	125	.0204**		2780							
2	.0945	162	.0579		3765							
3	.1384	191	.0953		3901							
4	.1823	226	.1328		3964							
5	.2262	243	.1702		4000							
6	.2700	251	.2077		4023							
7			.2452		4041							
8			.2826		4054							
9			.3201		4064							
10			.3575		4075							
11			.3950		4080							
12			.4325		4087							
13			.4699		4093							
14			.5074		4097							
15			.5440		4100							

Reading Interval 13 11 Minutes

REMARKS: * = 15 minute interval; ** = 6 minute interval.

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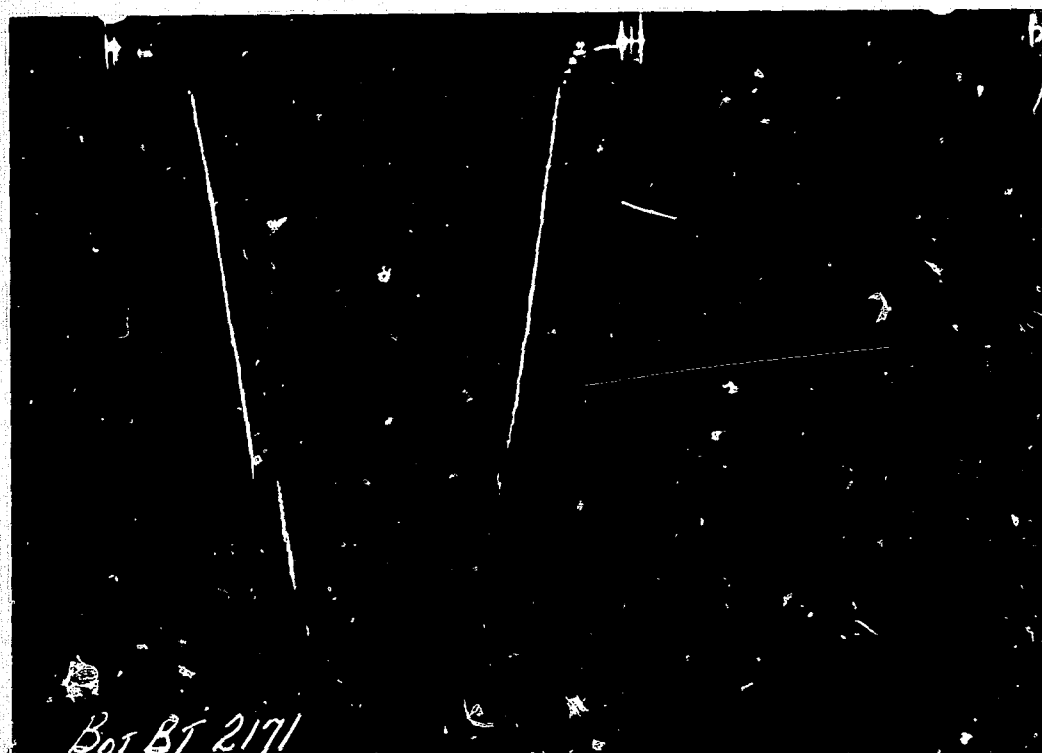
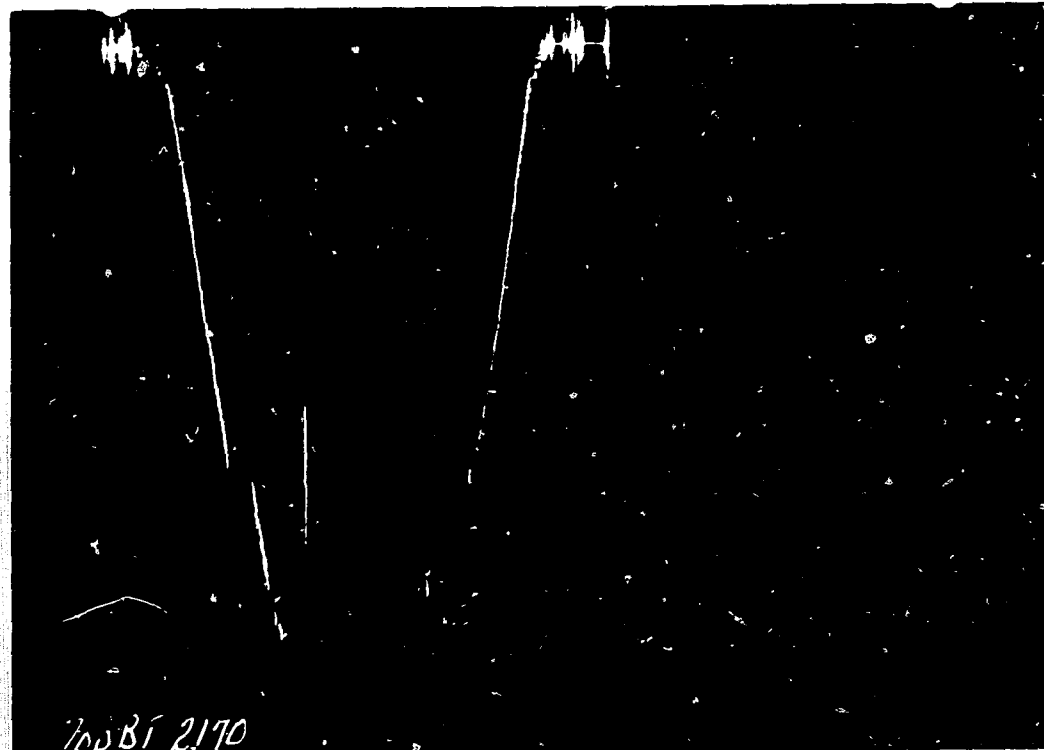
TICKET NO. 107845 00007

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6 1/4"		1.00'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	7853.85'	
Drill Collars	6 1/8"	2 7/8"	514.70'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	4.98'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5.00'	8381.15'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4.15'	8385.30'
Hydraulic Jar	5"	1"	3.85'	
VR Safety Joint	5"	1"	5.90'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	3"	6.17'	8399.50'
			(To rubber bottom)	
Distributor				
Packer Assembly				
One Collar	6 1/4"	2 7/8"	29.36'	
	5"	2.37"	25.00'	
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4.05'	8460'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				8464'

FORM 187-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S 86678, JED 9/17

PRESSURE
↓

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

NOMENCLATURE

b	Approximate Radius of Investigation	Feet
b	Approximate Radius of Investigation Net Pay Zone	Feet
D.R.	Damage Ratio	
El	Elevation	Feet
GD	B.T. Gauge Depth From Surface Reference	Feet
h	Interval Tested	Feet
h_1	Net Pay Thickness	Feet
K	Permeability	md
K_1	Permeability (From Net Pay Zone h_1)	md
m	Slope Extrapolated Pressure Plot (Psi/cycle Gas)	psi/cycle
OF_1	Maximum Indicated Flow Rate	MCF/D
OF_2	Minimum Indicated Flow Rate	MCF/D
OF_3	Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	Extrapolated Static Pressure	Psig.
P_f	Final Flow Pressure	Psig.
P_{sw}	Potentiometric Surface (Fresh Water *)	Feet
Q	Average Adjusted Production Rate During Test	bbls/day
Q_1	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.

00009

[illegible]

FORM 91 42-PRINTED IN U.S.A.

FORMATION TEST DATA

LITILE'S 102346 SM 9/70

00010

Casing perf. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 107846
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

[illegible]

FORM 102-R1-PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S 96672 5M 6/74

Gauge No. 2170			Depth 8453.96'			Clock No. 7. '5			24 hour		Ticket No. 107846				
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	134	.000		127										
1	.0333	127	.0402		365										
2	.0666	130	.0804		575										
3	.0999	130	.1206		772										
4	.1332	129	.1608		950										
5	.1665	127	.2010		1122										
6	.2000	127	.2412		1278										
7			.2814		1416										
8			.3216		1545										
9			.3618		1669										
10			.4020		1782										
11															
12															
13															
14															
15															

Gauge No. 2171			Depth 8566'			Clock No. 8083			24 hour						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	185	.000		167										
1	.0338	175	.0404		411										
2	.0677	173	.0808		627										
3	.1015	173	.1212		824										
4	.1353	172	.1616		997										
5	.1692	170	.2020		1160										
6	.2030	167	.2424		1308										
7			.2828		1446										
8			.3232		1579										
9			.3636		1702										
10			.4040		1814										
11															
12															
13															
14															
15															

Reading Interval 10 12 Minutes

REMARKS:

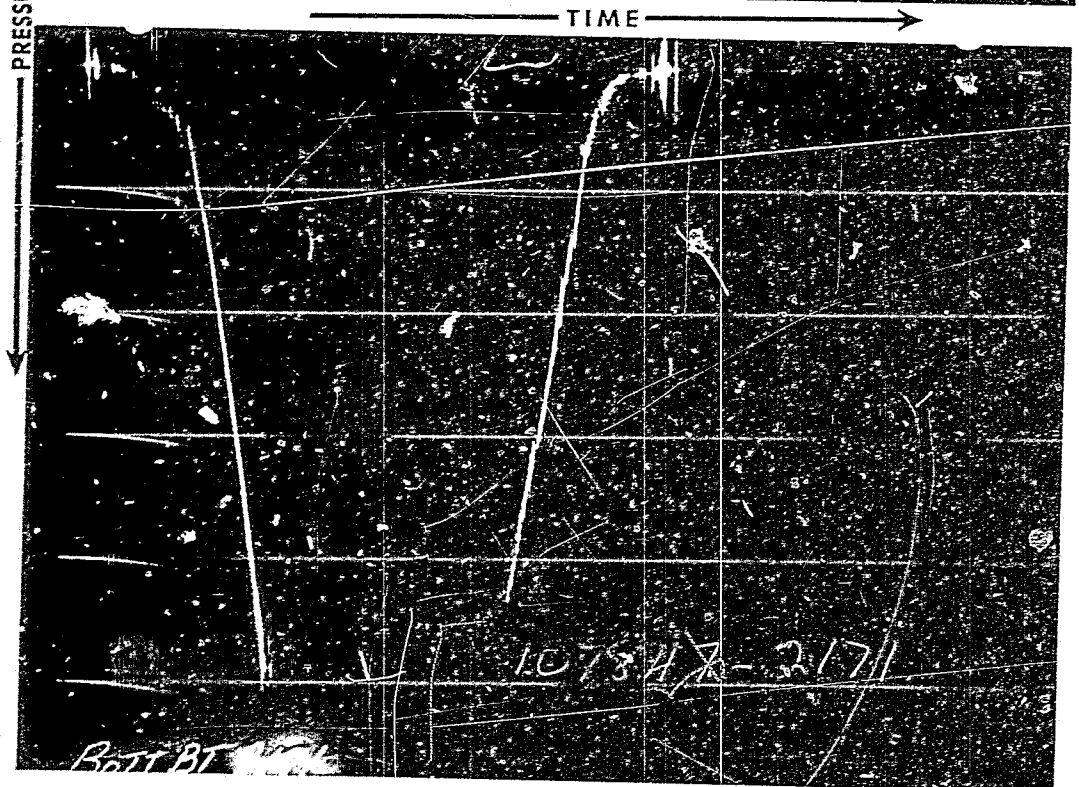
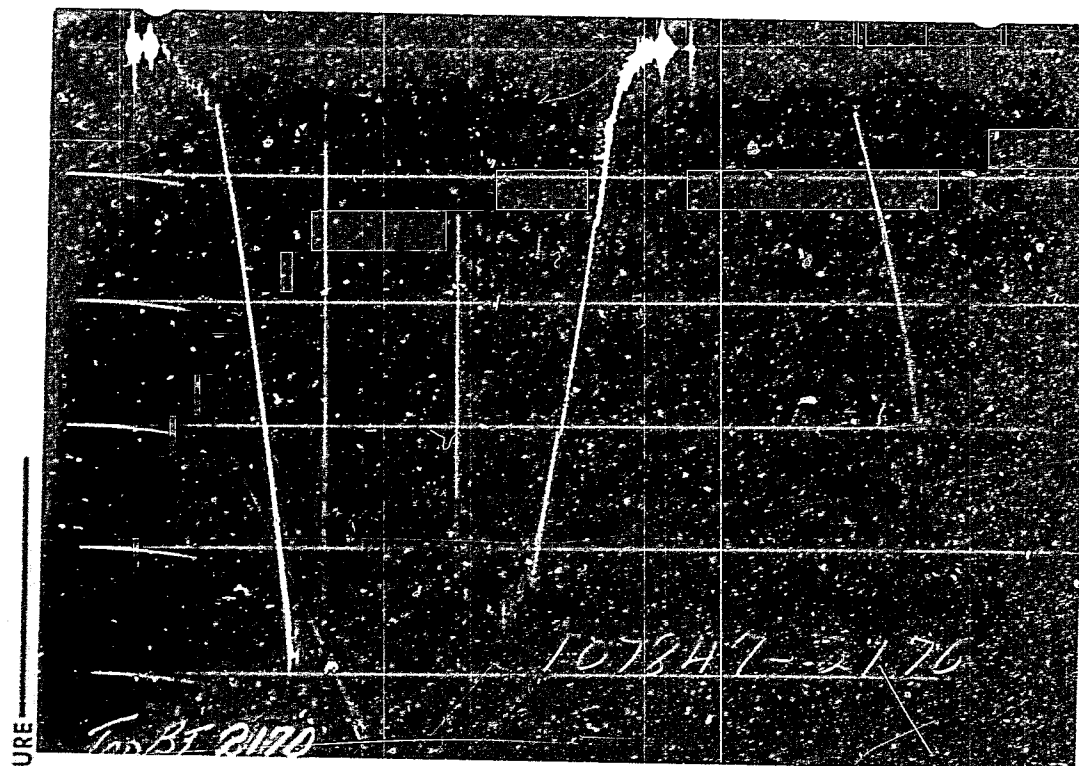
TICKET NO. 107846 00012

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"		1.00'	
Reversing Sub				
Water Cushion Valve	4 1/2"	3.826"	7951.30'	
Drill Pipe	6 1/4"	2 7/8"	483.85'	
Drill Collars				
Handling Sub & Choke Assembly	5"	.87"	4.98'	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5.00'	8449.81'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4.15'	8453.96'
Hydraulic Jar	5"	1.00"	3.85'	
VR Safety Joint	5"	1.00"	3.05'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	3"	8.17'	8468.16'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.37"	31'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4.05'	8566'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				8570'

FORM 187 RE-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S DATA 7/74



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

NOMENCLATURE

D	Distance	ft.
$D.R.$	Distance from well to fracture	ft.
E	Formation thickness	ft.
GD	Gas density	lb./cu. ft.
h	Thickness of pay zone	ft.
h	Net Pay Thickness	ft.
K	Permeability	md
K_1	Permeability from Net Pay Zone	md
m	Slope Extrapolated Pressure Plot, Polycycle Gas	psia/cycle
Q_1	Maximum Indicated Flow Rate	MCF/D
Q_2	Minimum Indicated Flow Rate	MCF/D
Q_3	Theoretical Open Flow Potential with Damage Removed Max	MCF/D
Q_4	Theoretical Open Flow Potential with Damage Removed Min	MCF/D
P_s	Extrapolated Static Pressure	psia
P_f	Final Flow Pressure	psia
P_{or}	Potentiometric Surface, Fresh Water	ft.
Q	Average Adjusted Production Rate During Test	bbbls/day
Q_1	Theoretical Production w. Damage Removed	bbbls/day
Q_2	Measured Gas Production Rate	MCF/D
R	Corrected Recovery	bbbls
r_w	Radius of Well Bore	ft.
t	Flow Time	Minutes
t_0	Total Flow Time	Minutes
T	Temperature Rankine	°R
Z	Compressibility Factor	—
μ	Viscosity Gas or Liquid	CP
$\log$	Common Log	—

* Potentiometric Surface, Fresh Water, is the surface of the water table in the aquifer.

00014

FLUID SAMPLE DATA					
Sampler Pressure _____ P.S.I.G. at Surface	Date	8-17-78		Ticket Number	107847
Recovery Cu Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____	Kind of Job	OPEN HOLE		Halliburton District	MOOMBA
Gravity _____ * API @ _____ °F.	Tester	WALLACE		Witness	
Gas/Oil Ratio _____ cu. ft./bbl.	Drilling Contractor	RICHTER DRILLING RIG # 6			DR
RESISTIVITY _____ CHLORIDE CONTENT _____	EQUIPMENT & HOLE DATA				
Recovery Water _____ @ _____ °F. _____ ppm	Formation Tested	-			
Recovery Mud _____ @ _____ °F. _____ ppm	Elevation	-			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm	Net Productive Interval	8758.51-8821' _____ Ft.			
Mud Pit Sample _____ @ _____ °F. _____ ppm	All Depths Measured From	Rotary Table _____ Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm	Total Depth	8821' _____ Ft.			
Mud Weight 10.6 vis 47 sec	Main Hole/Casing Size	8 1/2" _____ Ft.			
Cushion TYPE AMOUNT 857' Water	Drill Collar Length	514.70' I.D. 2 7/8"			
Ft. Depth Back Pres. Valve	Drill Pipe Length	8210.30' I.D. 3.826"			
Surface Choke 7/16"	Packer Depth(s)	8758.51' _____ Ft.			
Bottom Choke	Depth Tester Valves	8740.16' _____ Ft.			
Recovered 34'	Feet of rat hole mud-gas cut				
Recovered _____	Feet of _____				
Recovered _____	Feet of _____				
Recovered _____	Feet of _____				
Recovered _____	Feet of _____				
Remarks SEE PRODUCTION TEST DATA SHEET					
TEMPERATURE Gauge No. 2170	Gauge No. 2171	Gauge No.	TIME		
Depth: 8744.31 Ft.	Depth: 8817' Ft.	Depth:	Hour Clock		
Est. _____ °F.	Blanked Off NO	Blanked Off YES	Blanked Off Hour Clock		
Actual 283°F.	Pressures	Pressures	Tool Opened 1724 A.M. Opened _____ A.M. Bypass 1830 P.M.		
	Field Office	Field Office	Field Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	4757.3 4757	4811.1 4790			
First Period Flow Initial	310.5 298	330.1 320			
	359.5 361	379.6 366			
	1139.7 1141	1153 1145		66 66	
Second Period Flow Initial				132 132	
Third Period Flow Initial					
Final Hydrostatic	4644.7 4486	4713.4 4554			

FORMATION TEST DATA

LITTLE'S 102548 SM 9/70

107847

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

FORM 152 (11-61)--PRINTED IN U.S.A.

7 LITTLE'S 00072 SM 0/74

Gauge No. 2170				Depth 8744.31'		Clock No. 7375			24 hour		Ticket No. 107847						
First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure					
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.		Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.		Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	298	.000		361												
1	.0363	343	.0201		432*												
2	.0727	335	.0671		536												
3	.1090	348	.1141		635												
4	.1453	351	.1611		722												
5	.1817	353	.2081		802												
6	.2180	361	.2550		880												
7			.3020		953												
8			.3490		1018												
9			.3960		1081												
10			.4430		1141												
11																	
12																	
13																	
14																	
15																	

Gauge No. 2171				Depth 8817'		Clock No. 8093			hour 24		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.		Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	320	.000		366						
1	.0373	356	.0203		427*						
2	.0747	348	.0677		539						
3	.1120	358	.1151		635						
4	.1493	350	.1626		725						
5	.1867	363	.2099		808						
6	.2240	366	.2574		887						
7			.3048		957						
8			.3522		1023						
9			.3996		1084						
10			.4470		1145						
11											
12											
13											
14											
15											

Reading Interval 11 14 Minutes

REMARKS: *-6 minutes.

FORM 183-R1-PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE & 96873 75C. 8/74

00016

TICKET NO.

00017
107847

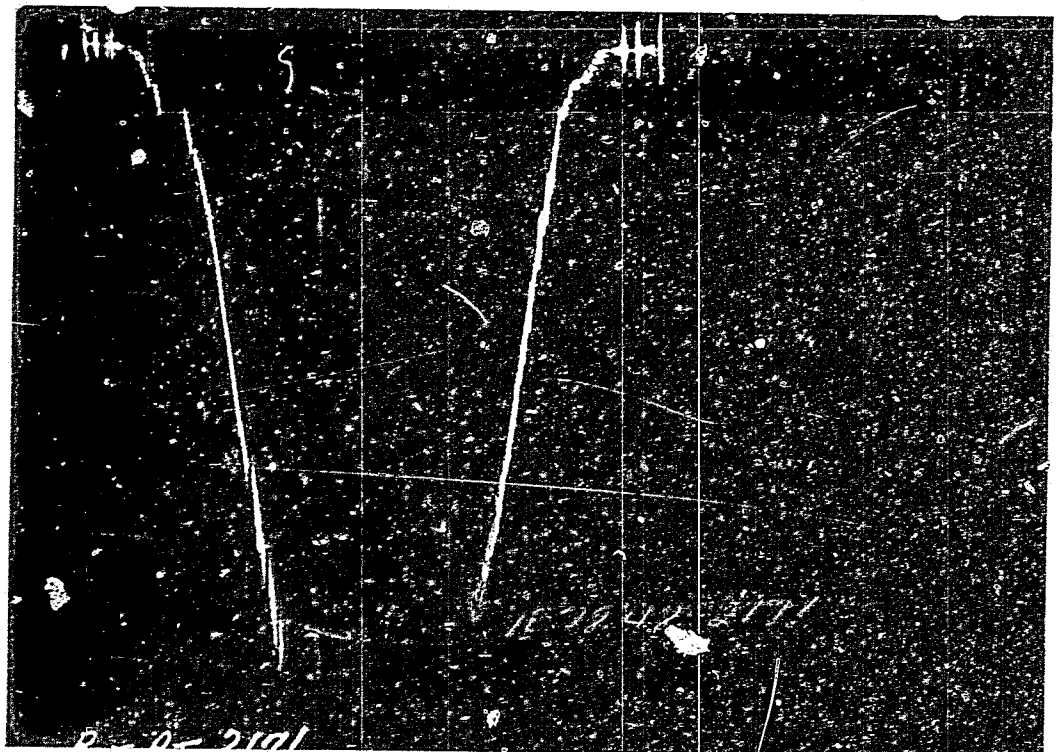
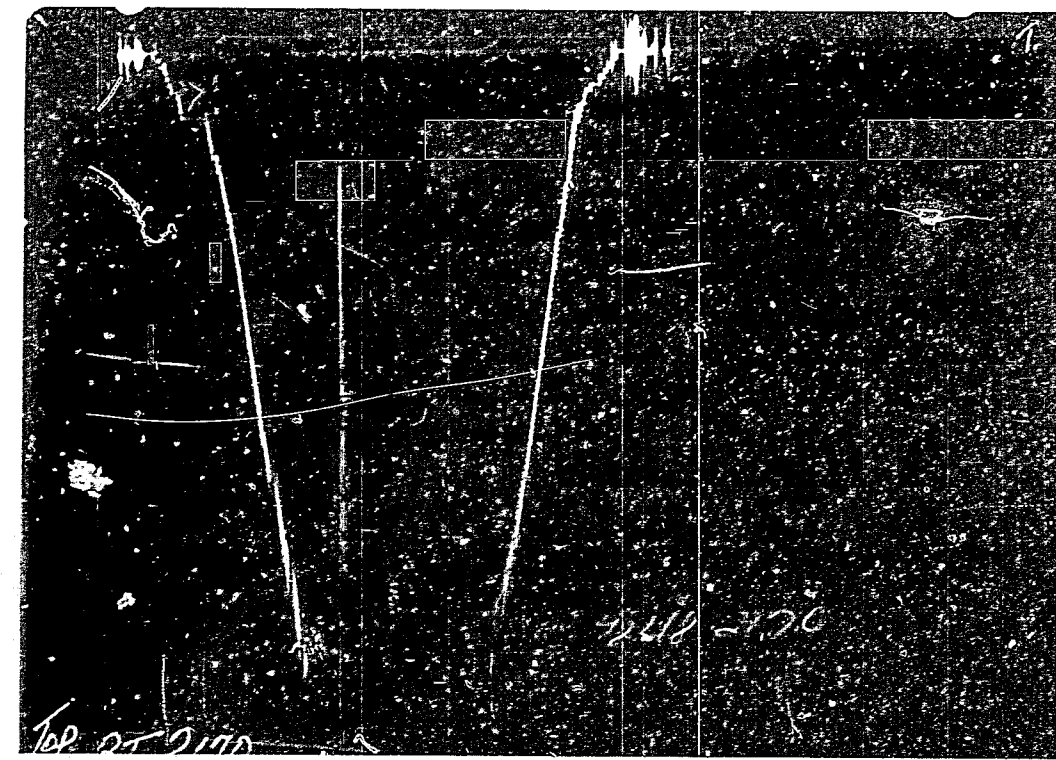
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"		1.00'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.825"	8210.30'	
Drill Collars	6 1/4"	2 7/8"	5.4.70'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	8735.16'	
Dual CIP Sampler				
Hydro-Spr. Tester	5"	.75"	5.00'	8740.16'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4.15'	8744.31'
Hydraulic Jar	5"	1"		
VR Safety Joint	5"	1"		
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	3"	5.40'	8758.51'
			to bottom rubber	
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.37"	23.00'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	4.05"		8817'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				8821

FORM 187-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S 88478 75C 8/74

PRESSURE
 ↓
 TIME →



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

NOMENCLATURE

E	= Elasticity	---
E_0	= Elasticity at zero pressure	---
DR	= Damage Ratio	---
EL	= Elasticity	---
GD	= Gas Damage	---
h	= Initial Thickness	Feet
h_0	= Net Pay Thickness	Feet
K	= Permeability	md
K_0	= Permeability From Net Pay Zone	md
m	= Slope Extrapolated Pressure-Flow Rate Gas	pressure
OF_0	= Maximum Indicated Flow Rate	MCF/D
OF_1	= Minimum Indicated Flow Rate	MCF/D
OF_2	= Theoretical Open Flow Potential with Damage Removed Max	MCF/D
OF_3	= Theoretical Open Flow Potential with Damage Removed Min	MCF/D
P_s	= Extrapolated Static Pressure	Psi
P_e	= Final Flow Pressure	Psi
P_{gw}	= Potentiometric Surface Fresh Water	Feet
Q	= Average Adjusted Production Rate During Test	bbbls/day
Q_0	= Theoretical Production w Damage Removed	bbbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_0	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	---
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	---

* Potentiometric Surface Fresh Water

00019

FLUID SAMPLE DATA				Date		Ticket Number	
Sampler Pressure _____ P.S.I.G. at Surface				8-18-78		107848	
Recovery Cu Ft Gas _____				Kind of Job		Halliburton District	
cc Oil _____				OPEN HOLE		AUSTRALIA	
cc Water _____				Tester		Witness	
cc Mud _____				WALLACE		-	
Tot Liquid cc _____				Drilling Contractor			
Gravity _____ ° API @ _____ ° F.				RICHTER DRILLING COMPANY RIG # 4 sm			
Gas Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
RESISTIVITY _____ CHLORIDE CONTENT _____				Formation Tested _____			
Recovery Water _____ @ _____ ° F. _____ ppm				Elevation _____ Ft.			
Recovery Mud _____ @ _____ ° F. _____ ppm				Net Productive Interval _____ 37.90' Ft.			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				All Depths Measured From _____ Rotary table			
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Total Depth _____ 8933' Ft.			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size _____ 8 1/2"			
Mud Weight _____ 10.3 vis 46 sec				Drill Collar Length _____ 544.05' I.D. 2 7/8"			
				Drill Pipe Length _____ 8319.64' I.D. 3.826"			
				Packer Depth(s) _____ 8895.10' Ft.			
				Depth Tester Valve _____ 8878.65' Ft.			
TYPE		AMOUNT		Depth Back		Surface	
Cushion		921 water		Ft. Pres. Valve		7/16" Choke	
Recovered		Feet of		Recovered water cushion plus			
Recovered		93		Feet of gas cut drilling fluid			
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks		Opened tool at 0927 with a weak blow with gas to the surface in 19 minutes burning. Closed tool at 1029. Pulled loose at 1233					
TEMPERATURE							
Gauge No. 2170		Gauge No. 2171		Gauge No.		TIME	
Depth: 8882.80 Ft.		Depth: 8929 Ft.		Depth: Ft.			
24 Hour Clock		24 Hour Clock		Hour Clock		Tool	
Est. 283 ° F.		Blanked Off NO		Blanked Off YES		Blanked Off	
Actual ° F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		4822 4825		4827 4824			
Flow Initial		360 425		363 432			
Flow Final		376 370		380 373			
Closed in		3966 4002		3961 4002			
Second Period Flow Initial						Reported Minutes	
Flow Final						Computed Minutes	
Closed in							
Third Period Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		4725 4651		4746 4662			

FORMATION TEST DATA

LITTLE'S 102540 9M 9/7

Gauge No. 2170			Depth 8882.90'			Clock No. 7375			24 hour			Ticket No. 107848					
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period			Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.		
0	.0000	425	.0000		370												
1	.0358*	370	.0166**		853												
2	.0702	373	.0499		1660												
3	.1037	369	.0832		2305												
4	.1371	366	.1165		2769												
5	.1706	367	.1498		2112												
6	.2040	370	.1830		3365												
7			.2163		3544												
8			.2496		3674												
9			.2829		3776												
10			.3162		3856												
11			.3494		3914												
12			.3837		3963												
13			.4160		4002												
14																	
15																	

Gauge No. 2171			Depth 8929'			Clock No. 8083			24 hour		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.						
0	.0000	432	.0000		373						
1	.0612*	373	.0169**		908						
2	.0709	376	.0506		1706						
3	.1047	375	.0844		2300						
4	.1385	376	.1182		2778						
5	.1722	389	.1519		3120						
6	.2060	373	.1857		3365						
7			.2194		3551						
8			.2532		3686						
9			.2870		3781						
10			.3207		3857						
11			.3545		3916						
12			.3882		3964						
13			.4220		4002						
14											
15											

Reading Interval 10 10

REMARKS: *First interval is equal to 11 minutes ** = 5 minutes

FORM 102-R-1-PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE'S 26873 75C 4/74

00020

TICKET NO. 00021
107848

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"		1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	8319.64'	
Drill Collars	6 1/4"	2 7/8"	544.05'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	4.98'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	8878.65'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4.15'	8882.80'
Hydraulic Jar	5"	1"	3.85'	
VR Safety Joint	5"	1"	3.05'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	3"	5.40'	8895.10'
Distributor				
Safety jt.	5"	1.50"	4'	
Packer Assembly				
Flush Joint Anchor	5"	2.37"	29'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.44"	4.05'	8929'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				8933'

FORM 187-B1-PRINTED IN U.S.A.

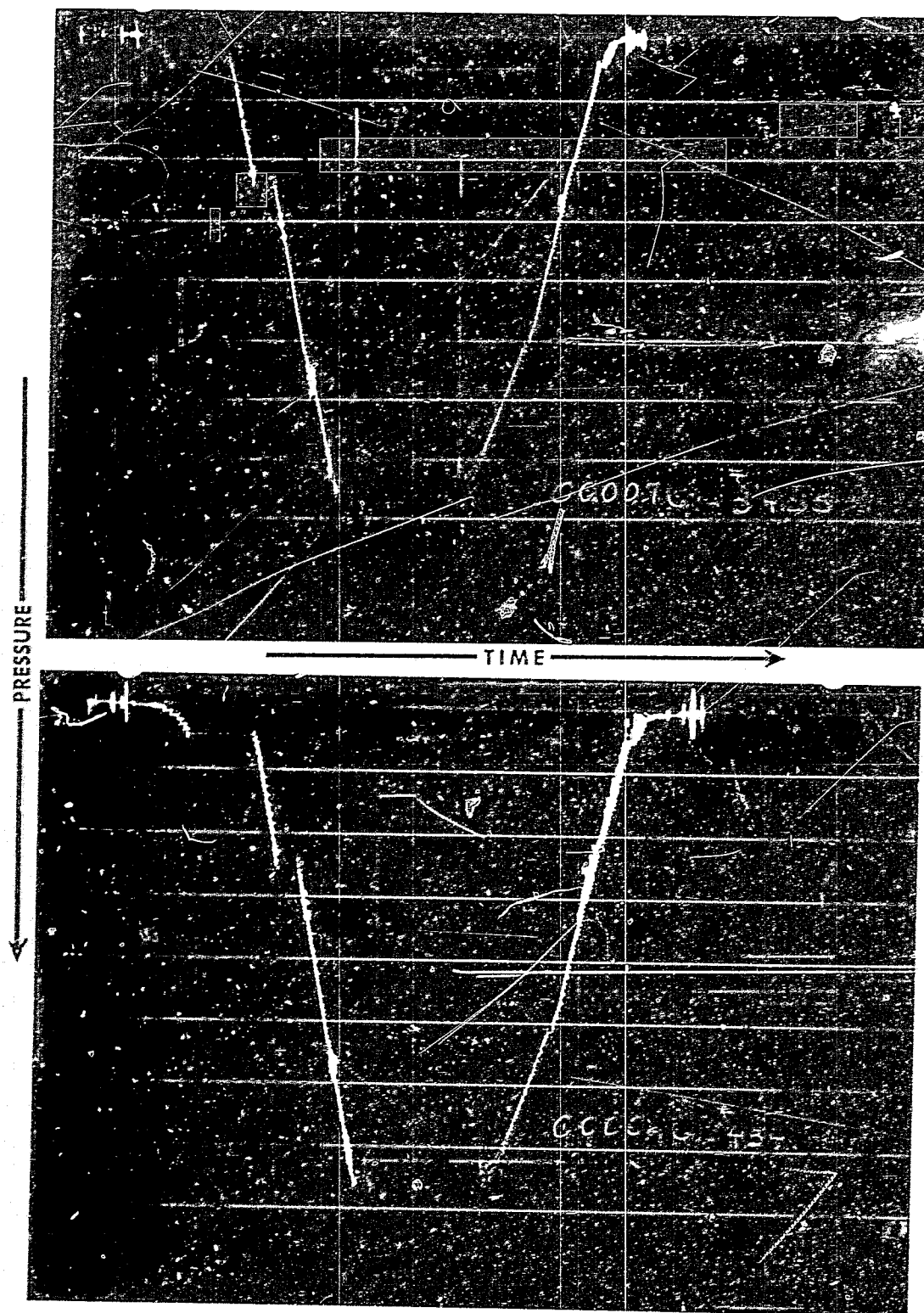
EQUIPMENT DATA

LITTLE'S 36676 79C 8/74

NOMENCLATURE

b	Formation Thickness	Feet
$D.R.$	Corrected Recovery	bbbls
E	Efficiency	Percent
GD	Gas Displacement	Feet
h	Interval Thickness	Feet
h	Net Pay Thickness	Feet
K	Permeability	md
K	Permeability From Net Pay Zone	md
m	Slope Extrapolated Pressure Plot (Pseudo Gas)	psi/cycle
OF_1	Maximum Indicated Flow Rate	MCF/D
OF_2	Minimum Indicated Flow Rate	MCF/D
OF_3	Theoretical Open Flow Potential with Damage Removed Max.	MCF/D
OF_4	Theoretical Open Flow Potential with Damage Removed Min.	MCF/D
P_s	Extrapolated Static Pressure	Psig
P_f	Final Flow Pressure	Psig
P_{fw}	Potentiometric Surface (Fresh Water)	Feet
Q	Average Adjusted Production Rate During Test	bbbls/day
Q_1	Theoretical Production w. Damage Removed	bbbls/day
Q_2	Measured Gas Production Rate	MCF/D
R	Corrected Recovery	bbbls
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	—

* Pressure units are in pounds per square inch absolute unless otherwise specified.
 † Flow units are in cubic feet per day unless otherwise specified.



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

00023

FLUID SAMPLE DATA				Date		Ticket Number	
Sampler Pressure _____ P.S.I.G. at Surface				2-9-78		000076	
Recovery Cu Ft Gas _____				Kind of Job		Halliburton District	
cc Oil _____				OPEN HOLE		AUSTRALIA	
cc Water _____				Tester		LARKINS	
cc Mud _____				Witness		MC KAY	
Tot Liquid cc. _____				Drilling Contractor		RICHTER RIG # 6 NM S	
Gravity _____ * API @ _____ * F.				EQUIPMENT & HOLE DATA			
Gas:Oil Ratio _____ cu. ft./bbl.				Formation Tested _____ Epsilon			
RESISTIVITY _____ CHLORIDE CONTENT _____				Elevation _____ 337' Ft.			
Recovery Water _____ @ _____ *F. _____ ppm				Net Productive Interval _____ 60' Ft.			
Recovery Mud _____ @ _____ *F. _____ ppm				All Depths Measured From _____ Kelly Bushing			
Recovery Mud Filtrate _____ @ _____ *F. _____ ppm				Total Depth _____ 9738' Ft.			
Mud Pit Sample _____ @ _____ *F. _____ ppm				Main Hole/Casing Size _____ 8 1/2"			
Mud Pit Sample Filtrate _____ @ _____ *F. _____ ppm				Drill Collar Length _____ 513' I.D. 2.375"			
Mud Weight _____ vis _____ sec				Drill Pipe Length _____ 9136' I.D. 4.276"			
				Packer Depth(s) _____ 9678' Ft.			
				Depth Tester Valve _____ 9663' Ft.			
TYPE		AMOUNT		Depth Back		Surface	
Cushion		WATER 2768'		Ft. Pres. Valve		NONE.	
						Choke 7/16" Bottom Choke 3/4"	
Recovered		2768'		Feet of		water	
Recovered		30'		Feet of		mud	
Recovered				Feet of			
Recovered				Feet of			
Recovered				Feet of			
Remarks		SEE PRODUCTION TEST DATA SHEET...					
TEMPERATURE		Gauge No. 3455		Gauge No. 4341		Gauge No.	
Depth:		9668' Ft.		9734' Ft.		Ft.	
24		Hour Clock		24		Hour Clock	
Est. *F.		Blanked Off NO		Blanked Off YES		Blanked Off	
Actual 290 *F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		7442.3 7497		7524.8 7538			
Flow Initial		1317.5 1334		1362.4 1392			
Flow Final		1317.5 1334		1362.4 1373			
Closed In		1907 1986		1959.2 2016			
Flow Initial						Reported	
Flow Final						Minutes	
Closed In						Computed	
						Minutes	
Flow Initial							
Flow Final							
Closed In							
Final Hydrostatic		7442.3 7380		7524.8 7408			

FORM 101-82-PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S ID2840 3M 8/10

00024

Casing perf. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 000076
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

[illegible]

FORM 102 RE-PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S 20472 IN 9/74

7

Gauge No. 3455			Depth 9668'			Clock No. -			24 hour		Ticket No. 000076				
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	1334	.000		1334										
1	.209	1334	.0340		1427										
2			.0680		1505										
3			.1020		1570										
4			.1360		1632										
5			.1700		1674										
6			.2040		1725										
7			.2380		1772										
8			.2720		1817										
9			.3060		1862										
10			.3400		1904										
11			.3740		1947										
12			.4080		1986										
13															
14															
15															

Gauge No. 4341			Depth 9734'			Clock No. ????			hour 24	
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	1392	.000		1373					
1	.219	1373	.0343		1460					
2			.0687		1537					
3			.1030		1599					
4			.1373		1659					
5			.1717		1708					
6			.2060		1760					
7			.2403		1809					
8			.2747		1850					
9			.3090		1896					
10			.3433		1937					
11			.3777		1978					
12			.4120		2016					
13										
14										
15										

Reading Interval 10 Minutes

REMARKS:

FORM 153-B1-PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE'S 96673 75C 8/74

00023

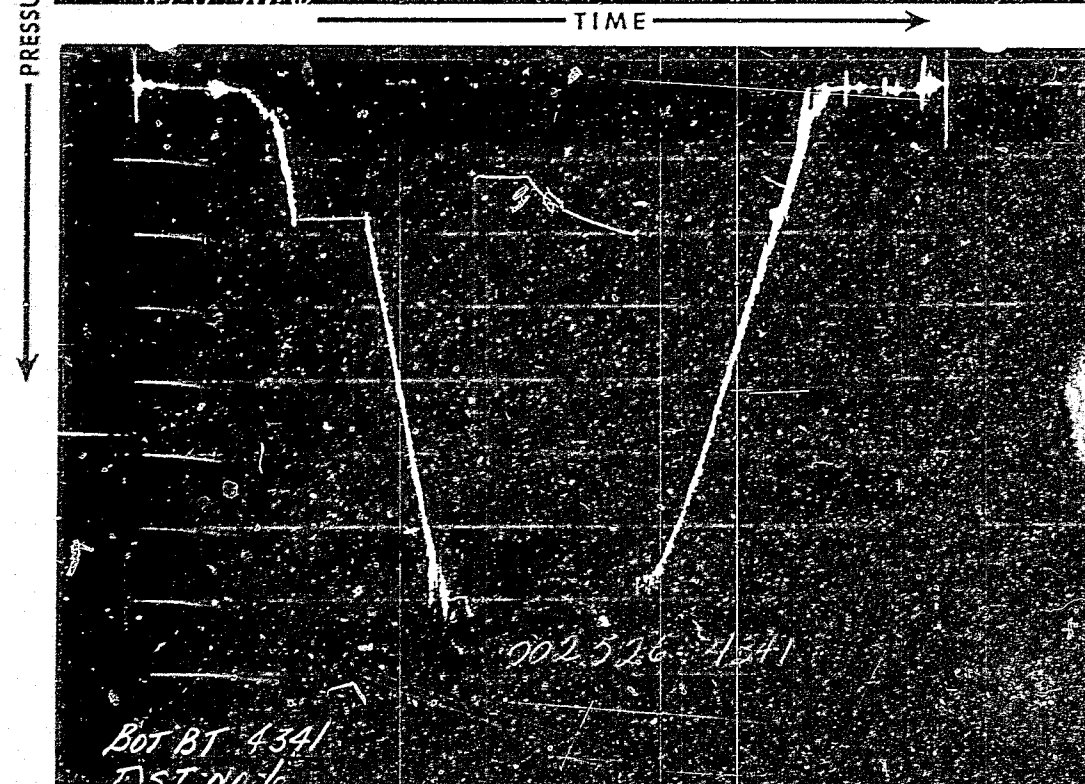
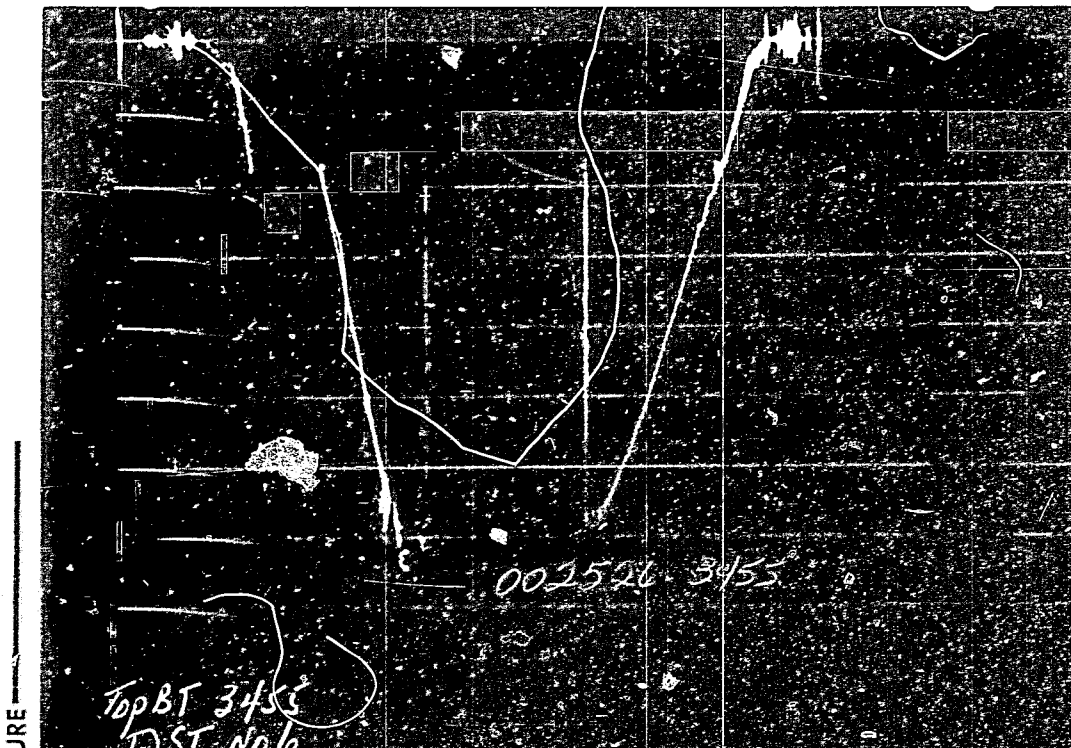
TICKET NO. 000076 00026

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub				
Water Cushion Valve				
Drill Pipe	5"	4.276"	9136'	
Drill Collars	6.125"	2.375"	513'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	1.62"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	9663'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	9668'
Hydraulic Jar	5"	1.00"	3.3'	
VR Safety Joint	5"	1.00"	4'	
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	7.75"	1.75"	6'	9678'
Anchor Pipe Safety Joint	5"	2.25"	4'	
Side Wall Anchor				
Drill Collars	6.125"	2.375"	31.24'	
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	2.44"	4'	9734'
Total Depth				9738'

FORM 187-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S 00476 REC 8/7



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

NOMENCLATURE

L	Length	Feet
I	Interference	Feet
$D.R.$	Damage Removal	
EI	Effective Interference	Feet
GD	Gas Damage	Feet
h	Interval Thickness	Feet
h	Net Pay Thickness	Feet
K	Permeability	md
K	Permeability From Net Pay Zone	md
m	Slope Extrapolated Pressure Plot Per Cycle Gas	md/cycle
OF_1	Maximum Indicated Flow Rate	MCF/D
OF_2	Minimum Indicated Flow Rate	MCF/D
OF_3	Theoretical Open Flow Potential with Damage Removed Max	MCF/D
OF_4	Theoretical Open Flow Potential with Damage Removed Min	MCF/D
P_s	Extrapolated Static Pressure	Psi
P_e	Final Flow Pressure	Psi
P_{sw}	Potentiometric Surface Fresh Water	Psi
Q	Average Adjusted Production Rate During Test	bbls/day
Q	Theoretical Production w. Damage Removed	bbls/day
Q_g	Measured Gas Production Rate	MCF/D
R	Corrected Recovery	lbbls
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	

* Extrapolated Static Pressure From Water Level Data

00023

[illegible]

FORMATION TEST DATA

LITTLE'S 102340 SM 9/7

7

00029

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 002526
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

[illegible]

Gauge No. 3455			Depth 10,276'			Clock No. 7375			24 hour			Ticket No. 002526					
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period			Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.		
0	.000	1220	.000		1195												
1	.027	1177	.0335		1331												
2	.0607	1172	.0669		1429												
3	.0944	1189	.1004		1511												
4	.1281	1192	.1338		1573												
5	.1618	1195	.1673		1633												
6	.1955	1203	.2008		1681												
7	.2292	1201	.2342		1723												
8	.2630	1195	.2677		1763												
9			.3011		1799												
10			.3346		1831												
11			.3681		1852												
12			.4015		1893												
13			.4350		1918												
14			.4684		1946												
15			.5320		1992**												

Gauge No. 4341			Depth 10,391'			Clock No. 8083			24 hour		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
0	.000	1295	.000		1240						
1	.0272	1230*	.0340		1369						
2	.0612	1240	.0681		1473						
3	.0951	1246	.1021		1552						
4	.1291	1246	.1361		1617						
5	.1631	1246	.1701		1675						
6	.1971	1251	.2042		1721						
7	.2310	1246	.2382		1765						
8	.2650	1240	.2722		1803						
9			.3062		1839						
10			.3403		1869						
11			.3743		1899						
12			.4083		1929						
13			.4423		1956						
14			.4764		1981						
15			.5410		2027**						

Reading Interval 10 10 Minutes

REMARKS: *First interval equal to 8 minutes **Last interval equal to 19 minutes

TICKET NO. 00031
002526

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5 7/8"	2 3/4"	1.00'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	5"	4.276"	9773.91'	
Drill Collars	6 1/4"	2 7/8"	483.11'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	4.98'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5.00'	10,272'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4.15'	10,276'
Hydraulic Jar	5"	1"	3.85'	
VR Safety Joint	5"	1"	3.05'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	3"	5.33'	10,289'
Distributor	5"	1.68"	2.00'	
Packer Assembly	7 3/4"	3"	5.38'	10,297'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6 1/4"	2 7/8"	60.94'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint	5"	1.50"	4.00'	
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.37"	27.00'	
Blanked-Off B.T. Running Case	5"	2.44"	4.05'	10,391'
Total Depth				10,395'

FORM 187-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S 90676 TFC 9/74

00033

FLUID SAMPLE DATA				Date	Ticket Number																																																																																																																																										
Sampler Pressure _____ P.S.I.G. at Surface Recovery Cu Ft Gas _____ cc Oil _____ cc Water _____ cc Mud _____ Tot Liquid cc _____ Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ cu. ft./bbl. RESISTIVITY _____ CHLORIDE CONTENT _____ Recovery Water _____ @ _____ °F. _____ ppm Recovery Mud _____ @ _____ °F. _____ ppm Recovery Mud Filtrate _____ @ _____ °F. _____ ppm Mud Pit Sample _____ @ _____ °F. _____ ppm Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm Mud Weight 12.6 vis 46 sec				9-12-78	002527																																																																																																																																										
Kind of Job				OPEN HOLE	Halliburton District MOOMBA																																																																																																																																										
Tester				WALLACE	Witness ??																																																																																																																																										
Drilling Contractor				RICHTER DRILLING RIG # 6																																																																																																																																											
EQUIPMENT & HOLE DATA																																																																																																																																															
Formation Tested				Patchawarra																																																																																																																																											
Elevation				_____ Ft.																																																																																																																																											
Net Productive Interval				100' _____ Ft.																																																																																																																																											
All Depths Measured From				Rotary Table																																																																																																																																											
Total Depth				10,536' _____ Ft.																																																																																																																																											
Main Hole/Casing Size				8 1/2"																																																																																																																																											
Drill Collar Length				483.11' I.D. 2 7/8"																																																																																																																																											
Drill Pipe Length				9921' I.D. 4.214'																																																																																																																																											
Packer Depth(s)				10,436' _____ Ft.																																																																																																																																											
Depth Tester Valve				10,419' _____ Ft.																																																																																																																																											
Cushion TYPE AMOUNT				Surface Choke Bottom Choke																																																																																																																																											
2620' Water				7/16"																																																																																																																																											
Recovered 214				Feet of gas cut mud and water cushion																																																																																																																																											
Recovered				Feet of																																																																																																																																											
Recovered				Feet of																																																																																																																																											
Recovered				Feet of																																																																																																																																											
Recovered				Feet of																																																																																																																																											
Remarks Opened tool for 60 minute first flow with a weak blow to surface. Closed tool for 120 minute final closed in pressure. Gas to surface burning in 75 minutes. Pulled tool loose @ 1501.																																																																																																																																															
<table border="1"> <thead> <tr> <th rowspan="2">TEMPERATURE</th> <th colspan="2">Gauge No. 3455</th> <th colspan="2">Gauge No. 4341</th> <th colspan="2">Gauge No. _____</th> <th colspan="2">TIME</th> </tr> <tr> <th>Depth: 10424</th> <th>Ft.</th> <th>Depth: 10532</th> <th>Ft.</th> <th>Depth: _____</th> <th>Ft.</th> <th>Hour Clock</th> <th>Hour Clock</th> </tr> </thead> <tbody> <tr> <td>Est. _____ °F.</td> <td colspan="2">Blanked Off NO</td> <td colspan="2">Blanked Off YES</td> <td colspan="2">Blanked Off</td> <td colspan="2">Blanked Off</td> </tr> <tr> <td>Actual 318°F.</td> <td colspan="2">Pressures</td> <td colspan="2">Pressures</td> <td colspan="2">Pressures</td> <td colspan="2">Pressures</td> </tr> <tr> <td></td> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> </tr> <tr> <td>Initial Hydrostatic</td> <td>6914</td> <td>6842</td> <td>6954</td> <td>6913</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">First Period Flow</td> <td>Initial</td> <td>1177</td> <td>1202</td> <td>1253.5</td> <td>1283</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td>1177</td> <td>1180</td> <td>1253.5</td> <td>1226</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Closed In</td> <td>3122</td> <td>3110</td> <td>3134</td> <td>3148</td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">Second Period Flow</td> <td>Initial</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Closed In</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">Third Period Flow</td> <td>Initial</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Closed In</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final Hydrostatic</td> <td>6451</td> <td>6449</td> <td>6545</td> <td>6474</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							TEMPERATURE	Gauge No. 3455		Gauge No. 4341		Gauge No. _____		TIME		Depth: 10424	Ft.	Depth: 10532	Ft.	Depth: _____	Ft.	Hour Clock	Hour Clock	Est. _____ °F.	Blanked Off NO		Blanked Off YES		Blanked Off		Blanked Off		Actual 318°F.	Pressures		Pressures		Pressures		Pressures			Field	Office	Field	Office	Field	Office	Field	Office	Initial Hydrostatic	6914	6842	6954	6913					First Period Flow	Initial	1177	1202	1253.5	1283				Final	1177	1180	1253.5	1226				Closed In	3122	3110	3134	3148				Second Period Flow	Initial								Final								Closed In								Third Period Flow	Initial								Final								Closed In								Final Hydrostatic	6451	6449	6545	6474				
TEMPERATURE	Gauge No. 3455		Gauge No. 4341		Gauge No. _____			TIME																																																																																																																																							
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	Closed In																																																																																																																																														
Final Hydrostatic	6451	6449	6545	6474																																																																																																																																											

KIRBY

Lease Name

1

Well No.

7

Test No.

10436-10536'

Tested Interval

Field Area

WILDCAT

Med. From Tester Valve

County SOUTH AUSTRALIA

State AUSTRALIA

DELHI INTERNATIONAL OIL CORPORATION

Lease Owner/Company Name

Gauge No. 3455			Depth 10424'			Clock No. 7375			24 hour		Ticket No. 002527					
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
0	.000	1202	.000		1180											
1	.0337	1183	.0407		1500											
2	.0673	1180	.0814		1767											
3	.1010	1180	.1221		2000											
4	.1347	1180	.1628		2203											
5	.1684	1180	.2035		2390											
6	.2020	1180	.2442		2562											
7			.2849		2715											
8			.3256		2859											
9			.3663		2997											
10			.4070		3110											
11																
12																
13																
14																
15																

Gauge No. 4341			Depth 10,532'			Clock No. 8083			hour 24	
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.					
0	.000	1283	.000		1226					
1	.0348	1245	.0415		1548					
2	.0697	1229	.0830		1815					
3	.1045	1229	.1245		2043					
4	.1393	1229	.1660		2243					
5	.1742	1226	.2075		2433					
6	.2090	1226	.2490		2597					
7			.2905		3752					
8			.3320		2891					
9			.3735		3030					
10			.4150		3148					
11										
12										
13										
14										
15										

Reading Interval 10 12 Minutes

REMARKS:

FORM 103-RS-PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE'S 96672 75C 8/74

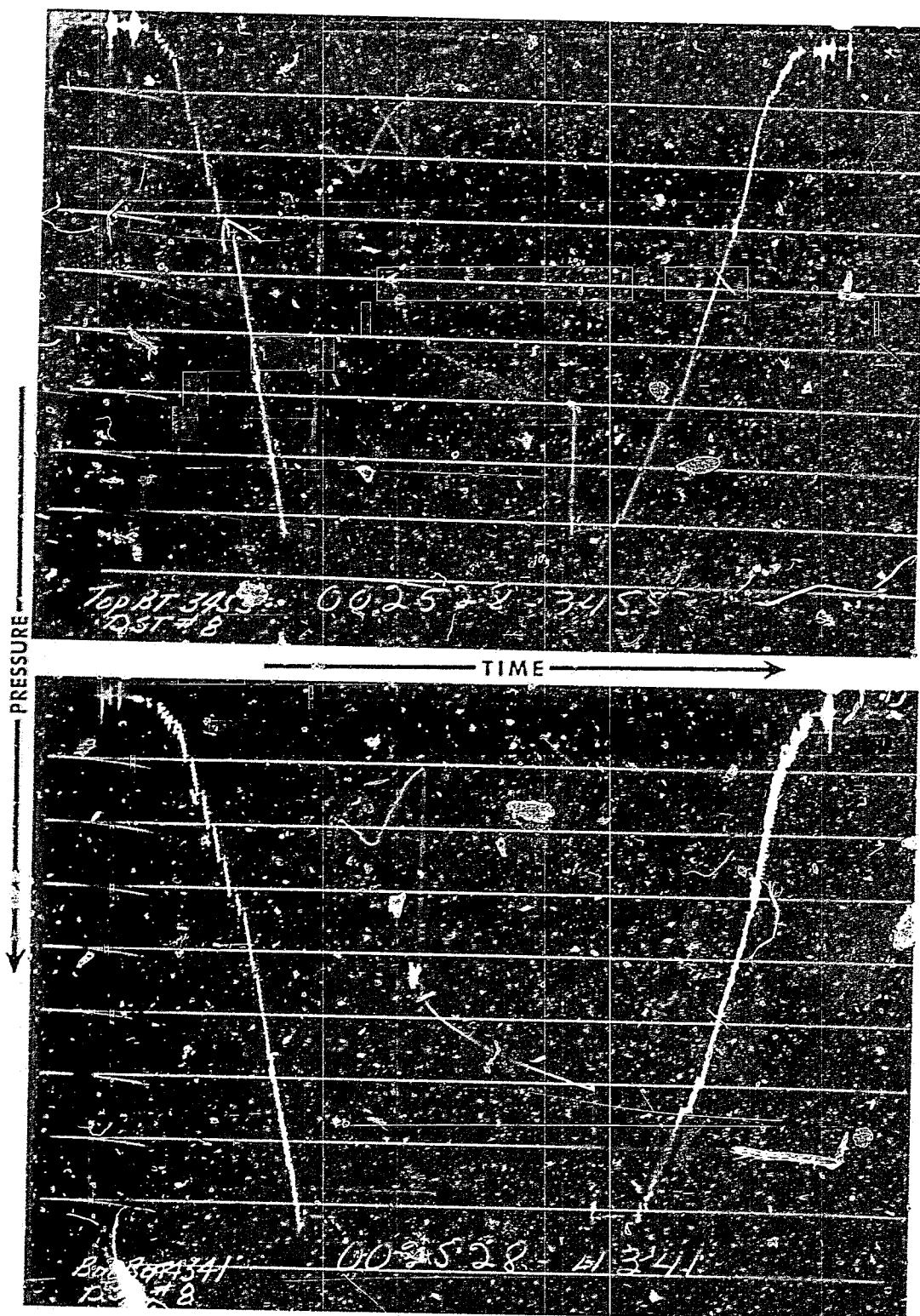
00034

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	3"	1.00'	
Reversing Sub				
Water Cushion Valve	5"	4.214"	9921'	
Drill Pipe		2 7/8"	483.11'	
Drill Collars				
Handling Sub & Choke Assembly	5"	.87"	4.98'	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5.00'	10419'
Hydro Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4.15'	10424'
Hydraulic Jar	5"	1"	3.85'	
VR Safety Joint	5"	1"	3.05'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	3"	6.18'	10436'
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6 1/4"	2 7/8"	483.11'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.37"	29'	
Blanked-Off B.T. Running Case	5"	2.44"	4.05'	10,532'
Total Depth				10,536'

FORM 187-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE & BOSTON 7/74



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

NOMENCLATURE

B	Formation Volume Factor	—
$D R$	Damage Ratio	—
$E I$	Flow Efficiency	—
$G D$	Gas Deviation Index	—
h	Interval Thickness	Feet
h_1	Net Pay Thickness	Feet
K	Permeability	md
K_1	Permeability From Net Pay Zone	md
m	Slope Extrapolated Pressure Plot For Cycle Gas	md-cp/deg
OF_1	Maximum Indicated Flow Rate	MCF/D
OF_2	Minimum Indicated Flow Rate	MCF/D
OF_3	Theoretical Gas Flow Potential with Damage Removed Max	MCF/D
OF_4	Theoretical Gas Flow Potential with Damage Removed Min	MCF/D
P_s	Extrapolated Static Pressure	Psi
P_e	Final Flow Pressure	Psi
P_{ws}	Potentiometric Surface (Fresh Water)	Psi
Q	Average Adjusted Production Rate During Test	bbbl/day
Q_1	Theoretical Production w. Damage Removed	bbbl/day
Q_g	Measured Gas Production Rate	MCF/D
R	Corrected Recovery	bbbl
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	—

* Except where specified, all pressures are in psi absolute.

00037

FLUID SAMPLE DATA				Date 9-16-78		Ticket Number 002528	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District MOOMBA	
Recovery Cu Ft Gas _____				Tester WALLACE		Witness _____	
cc Oil _____				Drilling Contractor RICHTER RIG # 6 DR			
cc Water _____				EQUIPMENT & HOLE DATA			
cc Mud _____				Formation Tested _____			
Tot Liquid or _____				Elevation _____ Ft.			
Gravity _____ ° API @ _____ °F.		Gas/Oil Ratio _____ cu. ft./bbl.		Net Productive Interval 62' Ft.			
RESISTIVITY _____		CHLORIDE CONTENT _____		All Depths Measured From Rotary Table			
Recovery Water _____ @ _____ °F. _____ ppm		Recovery Mud _____ @ _____ °F. _____ ppm		Total Depth 10,718' Ft.			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm		Mud Pit Sample _____ @ _____ °F. _____ ppm		Main Hole/Casing Size 8 1/2"			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm		Mud Weight 14.9 vis 50 sec		Drill Collar Length 513' I.D. 2 7/8"			
				Drill Pipe Length 10,111' I.D. 4.214"			
				Packer Depth(s) 10556' Ft.			
				Depth Tester Valve 10639' Ft.			
TYPE CUSHION		AMOUNT 4526' Water		Depth Back Pres. Valve		Surface Choke 7/16" Bottom Choke	
Recovered _____ Feet of		Recovered _____ Feet of Reversed out, recovered nothing.					
Recovered _____ Feet of		Recovered _____ Feet of					
Recovered _____ Feet of		Recovered _____ Feet of					
Recovered _____ Feet of		Remarks SEE PRODUCTION TEST DATA SHEET					
TEMPERATURE							
Gauge No. 3455		Gauge No. 4341		Gauge No.		TIME	
Depth: 10643 Ft.		Depth: 10714 Ft.		Depth: _____ Ft.		Tool _____ A.M.	
24 Hour Clock		24 Hour Clock		Hour Clock		Opened _____ P.M.	
Est. _____ °F.		Blanked Off NO		Blanked Off YES		Blanked Off _____	
Actual 326 °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		8370 8163		8391 8202		Reported _____ Computed _____	
Flow Initial		1879 1966		1907 1877		Minutes _____ Minutes _____	
Flow Final		1008.5 1023		1090 1049		147 144	
Closed In		6025 6095		6055 6093		294 296	
Second Period Flow Initial							
Flow Final							
Closed In							
Third Period Flow Initial							
Flow Final							
Closed In							
Final Hydrostatic		8171 8106		8229 8123			

00038

Casing perf. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 002528
 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
0839		7/16	40-60			Change guages
0850			600			
0852			600			
0854			800			Unloading water
0859			1000			Cushion
0901			1100			
0903			1200			
0905			1300			
0907			1350			
0909			1350			
0911			1300			
0926			1300+			Burning stable gas to surface
0935			1100			
0945			1000			
0949			900			
0955			800			No more water
1000			750			Depleting
1005			700			
1013			675			

FORM 182-R1-PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S 96472 BK 8/74 7

Gauge No. 3455			Depth 10643'			Clock No. 7375			24 hour		Ticket No. 002528				
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	1966	.000		1023										
1	.0815	1963	.0800		4871 *										
2	.1630	2178	.1531		5046										
3	.2445	2082	.2262		5181										
4	.3260	1594	.2992		5301										
5	.4075	1208	.3723		5414										
6	.4890	1023	.4454		5517										
7			.5185		5606										
8			.5915		5687										
9			.6646		5764										
10			.7377		5830										
11			.8107		5897										
12			.8838		5963										
13			.9569		6046										
14			1.030		6095										
15															

Gauge No. 4341			Depth 10,714'			Clock No. 8083			hour 24	
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.					
0	.000	1967	.000		1049					
1	.0843	2003	.0807		4871*					
2	.1687	2210	.1543		5054					
3	.2530	2096	.2279		5188					
4	.3373	1599	.3016		5311					
5	.4217	1221	.3752		5417					
6	.5060	1049	.4489		5515					
7			.5225		5608					
8			.5961		5692					
9			.6698		5768					
10			.7434		5834					
11			.8171		5896					
12			.8907		5965					
13			.9643		6033					
14			1.038		6093					
15										

Reading Interval 24 21

REMARKS: *23 minutes.

Minutes

FORM 182-R1-PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE'S 96073 75C 8/74

00039

TICKET NO.

00040

002528

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6.00"	3"	1.00'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	5"	4.214"	10.111'	
Drill Collars	6 1/4"	2 7/8"	513'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	4.98'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5.00'	10,639'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25 "	4.15'	10643'
Hydraulic Jar	5"	1"	3.85'	
VR Safety Joint	5"	1"	3.05'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	3"		
Distributor				
Packer Assembly			5.30'	10656'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint	5"	1.50"	4.00'	
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6 1/4"	2 7/8"	31.29'	
Flush Joint Anchor	5"	2.37"	21.00'	
Blanked-Off B.T. Running Case	5"	2.44"	4.05'	10714'
Total Depth				10718'

FORM 187-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S 86676 75C

00041

PRESSURE

TIME

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h)	Feet
D.R.	= Damage Ratio	—
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{ws}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= 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.

Each Horizontal Line Equals 1000 p.s.i.

00042

FLUID SAMPLE DATA				Date 9-26-78		Ticket Number 000083																																																																																																																							
Pump Pressure _____ P.S.I.G. at Surface				Kind of Job HOOK WALL TEST		Halliburton District AUSTRALIA																																																																																																																							
Recovery Cu Ft Gas _____				Tester P. LARKINS		Witness _____																																																																																																																							
cc Oil _____				Drilling Contractor RICHTER DRILLING COMPANY RIG PW																																																																																																																									
cc Water _____				EQUIPMENT & HOLE DATA																																																																																																																									
cc Mud _____				Formation Tested Patchawarra																																																																																																																									
Tot Liquid cc _____				Elevation 337' Ft.																																																																																																																									
Gravity _____ ° API @ _____ ° F.				Net Productive Interval 54' Ft.																																																																																																																									
Gas O. Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing																																																																																																																									
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 11656' Ft.																																																																																																																									
Recovery Water _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size 8 1/2"																																																																																																																									
Recovery Mud _____ @ _____ ° F. _____ ppm				Drill Collar Length 454' I.D. 2.375"																																																																																																																									
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Pipe Length 1119.62' I.D. 4.214"																																																																																																																									
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Packer Depth(s) 11602' Ft.																																																																																																																									
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Depth Tester Valve 11587' Ft.																																																																																																																									
Mud Weight _____ vis _____ sgc _____				Surface Choke 7/16" Bottom Choke 3/4"																																																																																																																									
Cushion TYPE AMOUNT				Depth Back Pres. Valve																																																																																																																									
Water 5018'																																																																																																																													
Recovered 5018 Feet of water.																																																																																																																													
Recovered 90 Feet of mud.																																																																																																																													
Recovered _____ Feet of _____																																																																																																																													
Recovered _____ Feet of _____																																																																																																																													
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Remarks - SEE PRODUCTION TEST DATA SHEET -																																																																																																																													
<table border="1"> <thead> <tr> <th rowspan="2">TEMPERATURE</th> <th colspan="2">Gauge No. 3455</th> <th colspan="2">Gauge No. _____</th> <th colspan="2">Gauge No. _____</th> <th rowspan="2">TIME</th> </tr> <tr> <th>Depth: 11592 Ft.</th> <th>24 Hour Clock</th> <th>Depth: _____ Ft.</th> <th>Hour Clock</th> <th>Depth: _____ Ft.</th> <th>Hour Clock</th> </tr> </thead> <tbody> <tr> <td>Est. 275 ° F.</td> <td>Blanked Off</td> <td>No</td> <td>Blanked Off</td> <td></td> <td>Blanked Off</td> <td></td> <td>Tool A.M.</td> </tr> <tr> <td rowspan="3">Actual ° F.</td> <td colspan="2">Pressures</td> <td colspan="2">Pressures</td> <td colspan="2">Pressures</td> <td>Opened 1259 P.M.</td> </tr> <tr> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> <td>Opened A.M.</td> </tr> <tr> <td>Initial Hydrostatic 8878</td> <td>8601</td> <td></td> <td></td> <td></td> <td></td> <td>Bypass 1620 P.M.</td> </tr> <tr> <td rowspan="3">Flow</td> <td>Initial 2249</td> <td>2226</td> <td></td> <td></td> <td></td> <td></td> <td>Reported Minutes</td> </tr> <tr> <td>Final 2220</td> <td>2234</td> <td></td> <td></td> <td></td> <td></td> <td>Computed Minutes</td> </tr> <tr> <td>Closed In 7276</td> <td>7280</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">Second Period</td> <td>Initial</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Flow</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">Third Period</td> <td>Initial</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Flow</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final Hydrostatic</td> <td>8248</td> <td>8137</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								TEMPERATURE	Gauge No. 3455		Gauge No. _____		Gauge No. _____		TIME	Depth: 11592 Ft.	24 Hour Clock	Depth: _____ Ft.	Hour Clock	Depth: _____ Ft.	Hour Clock	Est. 275 ° F.	Blanked Off	No	Blanked Off		Blanked Off		Tool A.M.	Actual ° F.	Pressures		Pressures		Pressures		Opened 1259 P.M.	Field	Office	Field	Office	Field	Office	Opened A.M.	Initial Hydrostatic 8878	8601					Bypass 1620 P.M.	Flow	Initial 2249	2226					Reported Minutes	Final 2220	2234					Computed Minutes	Closed In 7276	7280						Second Period	Initial							Flow							Final							Third Period	Initial							Flow							Final							Final Hydrostatic	8248	8137					
TEMPERATURE	Gauge No. 3455		Gauge No. _____		Gauge No. _____		TIME																																																																																																																						
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Final Hydrostatic	8248	8137																																																																																																																											

Legal Location Sec. 1, Twp. 1, Rng. 1

Lead Name **KIRBY**

Well No. **1**

Test No. **9**

Tested Interval **11602' - 11656'**

County **COOPER BASIN**

State **SOUTH AUSTRALIA**

Lease Owner/Company Name **DELHI INTERNATIONAL OIL COMPANY**

FORM 151-R2-PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 102946 BH 9/76

7

00043

casing perf. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 000083
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICES USED _____

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

PRODUCTION TEST DATA

Gauge No. 3455					Depth 11592'			Clock No. 6719			24 hour		Ticket No. 000083		
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	2226	.000		2234										
1	.0358	2220	.0293		3312										
2	.0717	2243	.0587		4088										
3	.1075	2243	.0880		4724										
4	.1433	2237	.1173		5206										
5	.1792	2234	.1467		5606										
6	.2150	2234	.1760		5934										
7			.2053		6201										
8			.2346		6418										
9			.2640		6601										
10			.2933		6768										
11			.3226		6900										
12			.3520		7016										
13			.3813		7117										
14			.4106		7209										
15			.4400		7280										
Gauge No.		Depth		Clock No.		hour									
0															
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
Reading Interval 11		9												Minutes	
REMARKS:															

FORM 102-R1-PRINTED IN U.S.A.

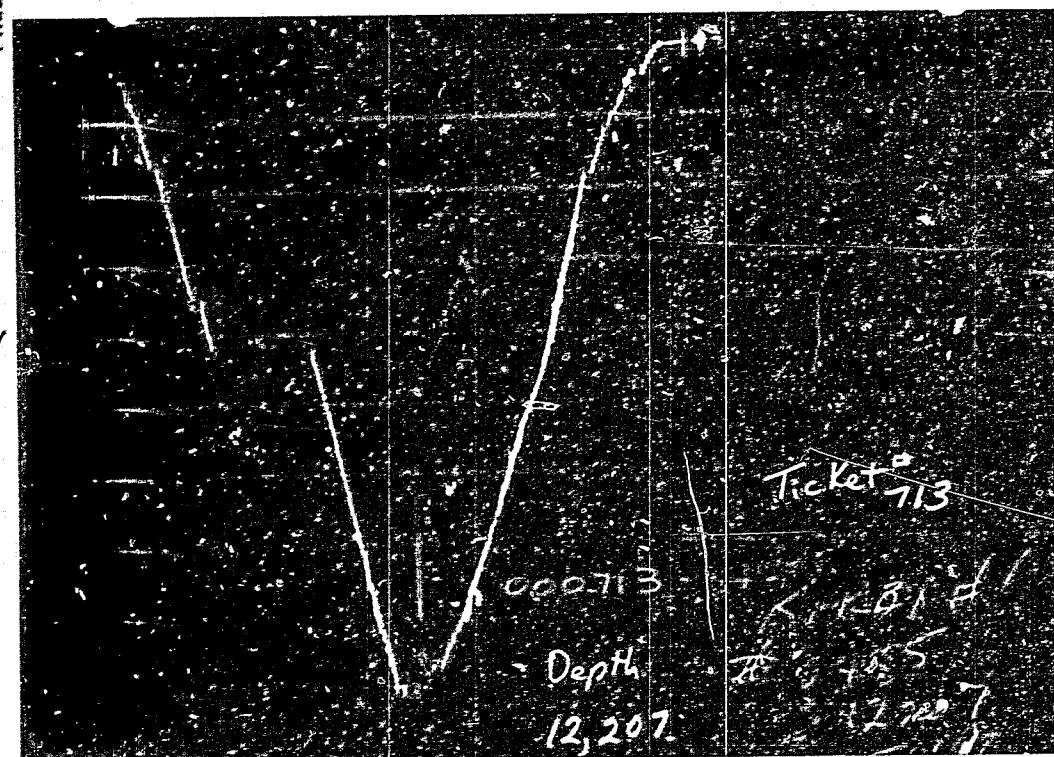
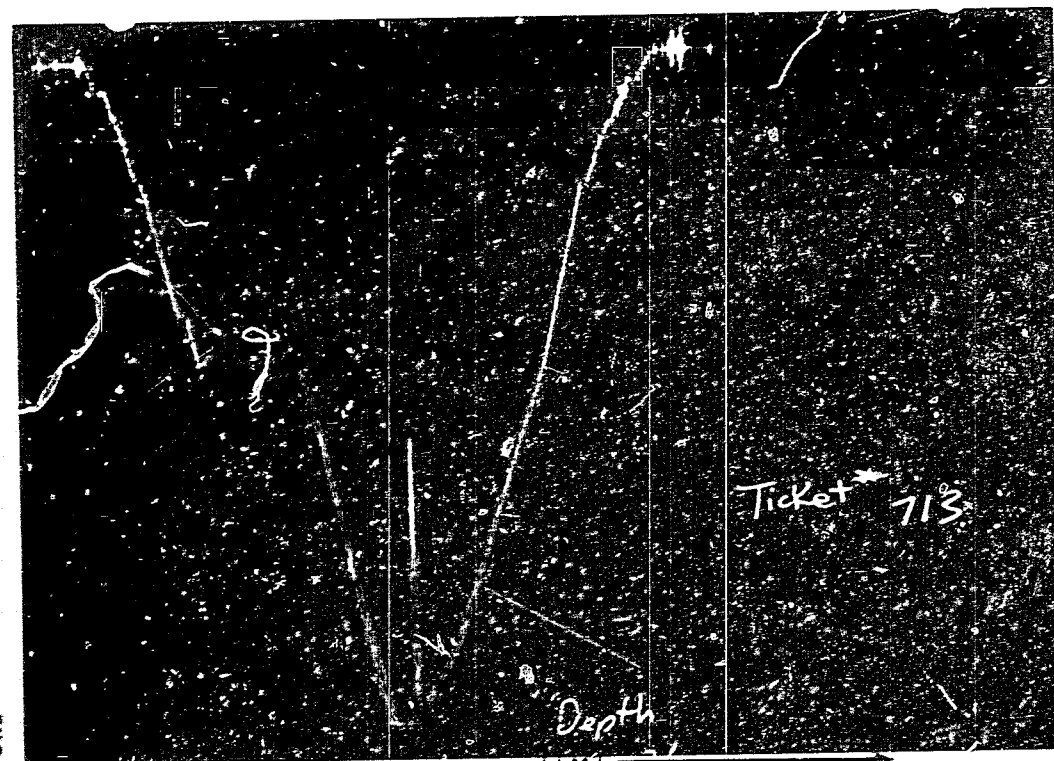
SPECIAL PRESSURE DATA

LITTLE'S 20079 TSC 8/74

00044

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub				
Water Cushion Valve				
Drill Pipe	5"	4.214"	1119.62'	
Drill Collars	6.25"	2.375"	454'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	1.62"	3'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	11587'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	11592'
Hydraulic Jar	5"	1"	3.3'	
VR Safety Joint	5"	1"	2.9'	
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	7.75"	1.75"	6'	11602'
Anchor Pipe Safety Joint	5"	2.25"	4'	
Side Wall Anchor				
Drill Collars	6 1/4"	2.375"	31.29'	
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	2.44"	4'	11656' ??
Total Depth				11656'

PRESSURE
↓



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

NOMENCLATURE

b	Apparent Skin Effect Factor	Foot
b	Apparent Skin Effect Factor, Dimensionless	
D.R.	Damage Ratio	
El	Elevation	Foot
GD	B.T. Gas, Depth From Surface Reference	Foot
h	Interval Time	Foot
I_s	Net Flow Time	Foot
K	Permeability	md
K	Permeability From Net Flow Zone	md
m	Slope Extrapolated Pressure Plot, Permeability	md
OF	Maximum Observed Flow Rate	MCF/D
OF	Maximum Observed Flow Rate	MCF/D
OF	Theoretical Open Flow Potential with Damage Removed Max	MCF/D
OF	Theoretical Open Flow Potential with Damage Removed Min	MCF/D
P_s	Extrapolated Static Pressure	Foot
P_s	Final Flow Pressure	Foot
P_s	Pressure at Surface of Well	Foot
Q	Average Adjusted Production Rate During Test	bbbl/day
Q	Theoretical Production w. Damage Removed	bbbl/day
Q_g	Measured Gas Production Rate	MCF/D
R	Corrected Recovery	bbbl
r_w	Radius of Well Bore	Foot
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	

* The above units are for gas and liquid flow rates. For gas flow rates, the units are in MCF/D.

TICKET NO. 000713 00043

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"		1.00'	
Water Cushion Valve				
Drill Pipe				
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	5.00'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5.00'	12131'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"		4.13'	12136'
Hydraulic Jar	5"		3.29'	
VR Safety Joint	5"		2.78'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"		6.10'	12150'
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				
Anchor Pipe Safety Joint	5"		4.30'	
Side Wall Anchor	X/O		.62'	
Drill Collars	6 1/4"		31.29'	
Flush Joint Anchor	X/O		.68'	
	5"		17.00'	
Blanked-Off B.T. Running Case	5"		4.10'	12207'
Total Depth				12211'

FORM 107-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S DATA 710-6714

NOMENCLATURE

B	Formation Volume Factor	cu ft/cu ft
B_g	Gas Formation Volume Factor	cu ft/cu ft
$D R$	Drawdown Ratio	
$E I$	Fracture Index	
GD	Gas Discharge Rate	cu ft/day
h	Interval Thickness	Feet
h	Net Pay Thickness	Feet
K	Permeability	md
K_i	Permeability From Net Pay Zone	md
m	Slope Extrapolated Pressure Plot, Pseudo Gas	psi-cycle
OF	Maximum Indicated Flow Rate	MCF/D
OF_2	Minimum Indicated Flow Rate	MCF/D
OF_3	Theoretical Open Flow Potential with Damage Removed Max	MCF/D
OF_4	Theoretical Open Flow Potential with Damage Removed Min	MCF/D
P_s	Extrapolated Static Pressure	Psi
P_f	Final Flow Pressure	Psi
P_{eq}	Potential at Surface, Fresh Water	Psi
Q	Average Adjusted Production Rate During Test	bbbls/day
Q_1	Theoretical Production w. Damage Removed	bbbls/day
Q_2	Measured Gas Production Rate	MCF/D
R	Corrected Recovery	bbbls
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	

* Extrapolated to Surface Pressure, Fresh Water
 From Wellbore Pressure

PRESSURE

TIME

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

00050

FLUID SAMPLE DATA						Date	10-4-78		Ticket Number	000714	
P.S.I.G. at Surface _____						Kind of Job	OPEN HOLE		Halliburton District	AUSTRALIA	
Recovery Cu. Ft Gas _____ cc Oil _____ cc Water _____ cc Mud _____ Tot Liquid cc _____						Tester	MR. HOOVER		Witness	MR. MC KAY	
Gravity _____ * API @ _____ * F.						Drilling Contractor	RICHTER DRILLING LIMITED RIG #6 IC				
Gas Or Ratio _____ cu. ft./bbl. RESISTIVITY _____ CHLORIDE CONTENT _____						EQUIPMENT & HOLE DATA					
						Formation Tested	-				
						Elevation	-				
						Net Productive Interval	12,115' - 12,211'				
						All Depths Measured From	Rotary Kelly Bushing				
						Total Depth	12,211'				
						Main Hole/Casing Size	8 1/2"				
						Drill Collar Length	-				
						Drill Pipe Length	-				
						Packer Depth(s)	12,107' - 12,115'				
						Depth Tester Valve	11,988'				
Mud Weight _____ vls _____ sec											
Cushion TYPE AMOUNT 5500' WATER						Depth Back Pres. Valve	Surface Choke		Bottom Choke		
							7/16"		3/4"		
Recovered Feet of											
Recovered Feet of											
Recovered Feet of											
Recovered Feet of											
Recovered Feet of											
Remarks MISRUN...PACKER FAILURE...MISRUN											
TEMPERATURE		Gauge No. 4341	Gauge No. 3455	Gauge No.	TIME						
Depth:		11,993' Ft.	Depth: 12,207' Ft.	Depth:	Ft.						
Est. 370 °F.		Blanked Off NO	Blanked Off YES	Hour Clock		Tool A.M.					
						Opened P.M.					
Actual °F.		Pressures		Pressures		Pressures		Bypass		A.M.	
		Field Office	Field Office	Field Office		Field Office		Reported		Computed	
Initial Hydrostatic		-	9187	-		9299		Minutes		Minutes	
First Period	Flow Initial										
	Final										
Closed In											
Second Period	Flow Initial										
	Final										
Closed In											
Third Period	Flow Initial										
	Final										
Closed In											
Final Hydrostatic		-	9107	-		9212					

Legal Location Sec. - Twp. - Range
 Lease Name
 Well No.
 Test No.
 Tested Interval
 County
 State SOUTH AUSTRALIA

DEPT. INTERNATIONAL OIL CORPORATION
 Lease Owner/Company Name

FORMATION TEST DATA

LITTLE'S 102340 BH 9/78

FORM 181-A2-PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 102349 2M 9/70

TICKET NO. 000714 00051

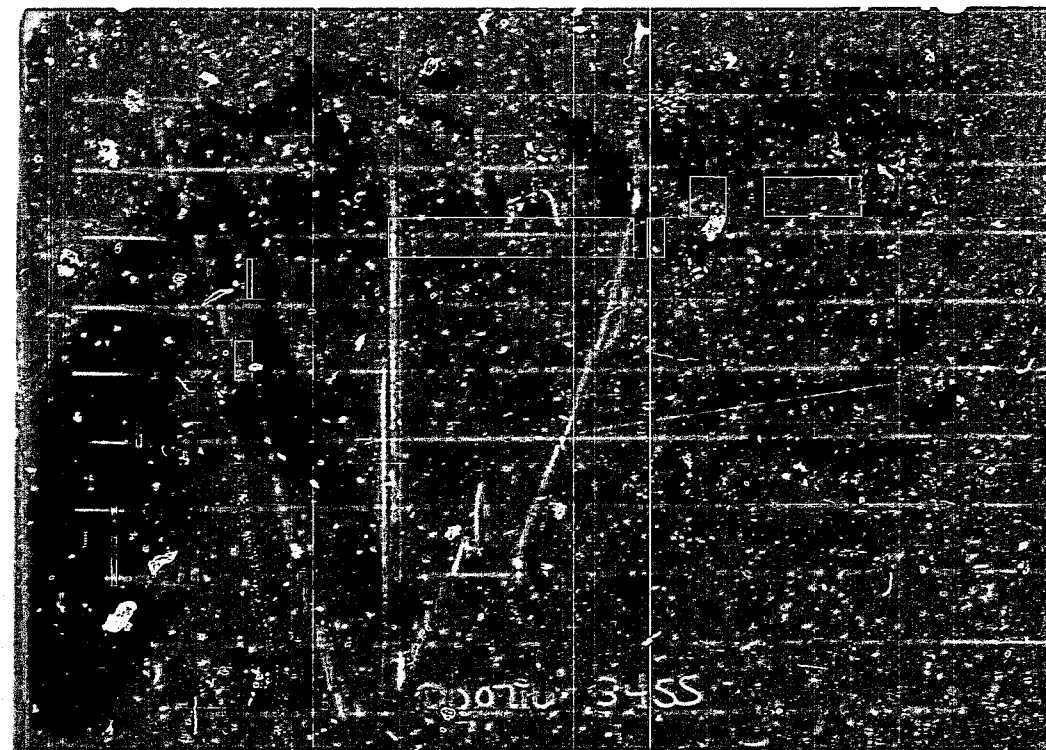
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"		1.00'	
Water Cushion Valve				
Drill Pipe				
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	11,988'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"		4.13'	11,993'
Hydraulic Jar	5"		3.29'	
VR Safety Joint	5"		2.78'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"		6.10'	12,107'
Distributor	5"		2.00'	
Packer Assembly	7 3/4"		6.10'	12,115'
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"		4.30'	
Side Wall Anchor				
Drill Collars	6 1/4"		.62' X OVER 59.36'	
Flush Joint Anchor	5"		.68' X OVER 24.00'	
Blanked-Off B.T. Running Case	5"		4.10'	12,207'
Total Depth				12,211'

FORM 187-R1-PRINTED IN U.S.A.

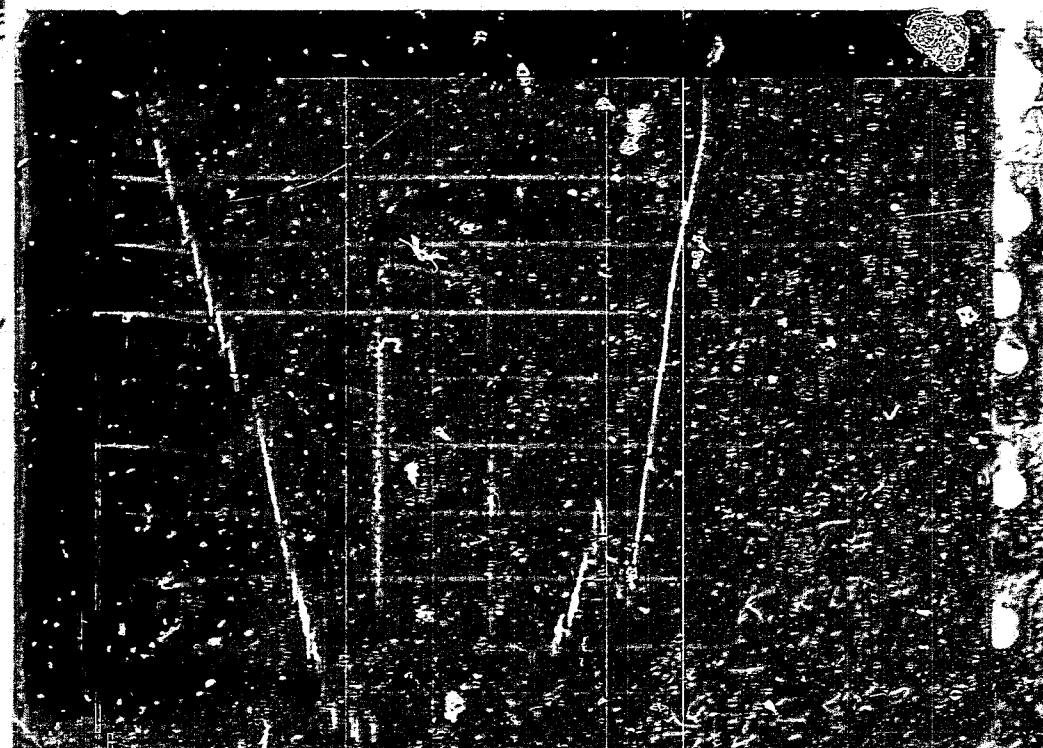
EQUIPMENT DATA

LITTLE'S DIGITE REC 8/74-7

PRESSURE



TIME



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

NOMENCLATURE

i	Initial Pressure	psi
$D.P.$	Drawdown Pressure	psi
E	Formation Volume Factor	—
GD	Gas Density	lb/cu ft
h	Thickness of Reservoir	ft
h	Net Pay Thickness	ft
K	Permeability	md
K	Permeability, Skin Near Well Zone	md
m	Gas, Extrapolated Pressure, Plane Flow, Well Gas	psi
OF	Maximum Observed Flow Rate	MCF/D
OF	Maximum Observed Flow Rate	MCF/D
OF	Theoretical Gas Flow Potential with Damage Removed Max	MCF/D
OF	Theoretical Gas Flow Potential with Damage Removed Min	MCF/D
P	Extrapolated Static Pressure	psi
P	Final Flow Pressure	psi
P	Potential Static Pressure, Free Water	psi
Q	Average Adjusted Production Rate During Test	bbbl/day
Q	Theoretical Production w. Damage Removed	bbbl/day
Q	Measured Gas Production Rate	MCF/D
R	Corrected Radius	ft
r	Radius of Well Bore	ft
t	Flow Time	Minutes
t	Total Flow Time	Minutes
T	Temperature Rankine	R
Z	Compressibility Factor	—
μ	Viscosity Gas or Liquid	cp
$\log$	Common Log	—

00053

FLUID SAMPLE DATA				Date 10-18-78		Ticket Number 000716	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE TEST		Halliburton District AUSTRALIA	
Recovery Cu Ft Gas _____				Tester DON HOOVER		Witness MR. STUART	
cc. Oil _____				Drilling Contractor RICHTER DRILLING PTY., LIMITED #6			
cc. Water _____				EQUIPMENT & HOLE DATA PW			
cc. Mud _____				Formation Tested _____			
Tot. Liquid cc. _____				Elevation _____ Ft.			
Gravity _____ * API @ _____ * F.				Net Productive Interval 12345' - 12466' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Rotary Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 12466' Plug Back Ft.			
Recovery Water _____ @ _____ * F. _____ ppm				Main Hole/Casing Size 8 1/2"			
Recovery Mud _____ @ _____ * F. _____ ppm				Drill Collar Length 364' I.D. 2 13/16"			
Recovery Mud Filtrate _____ @ _____ * F. _____ ppm				Drill Pipe Length 11950' I.D. 4.276"			
Mud Pit Sample _____ @ _____ * F. _____ ppm				Packer Depth(s) 12337' - 12345' Ft.			
Mud Pit Sample Filtrate _____ @ _____ * F. _____ ppm				Depth Tester Valve 12318' Ft.			
Mud Weight 15.1 vis sac				Needle Bottom Choke 3/4"			
TYPE AMOUNT				Surface Choke			
Cushion Water 7000'				Depth Back Pres. Valve			
Recovered _____ Feet of				Med. From Tester Valve			
Recovered _____ Feet of				Field Area			
Recovered _____ Feet of				Wildcat			
Recovered _____ Feet of				County			
Recovered _____ Feet of				State SOUTH AUSTRALIA			
Remarks Tool reversed out with 29 stands of pipe out of hole. Pipe unloaded with 13 stands out of hole.							
- SEE PRODUCTION TEST DATA SHEET -							
CS = Clock Stopped.....							
UTR = Unable to read.... ?? = QUESTIONABLE READING....							
TEMPERATURE	Gauge No. 3455	Gauge No. 4341	Gauge No. _____	TIME			
	Depth: 12323 Ft.	Depth: 12462 Ft.	Depth: _____ Ft.	Tool _____ A.M.			
Est. 372 * F.	24 Hour Clock	24 Hour Clock	Hour Clock	Opened 1007 P.M.			
Actual * F.	Blanked Off No	Blanked Off YES	Blanked Off	Opened _____ A.M.			
Pressures	Pressures		Pressures		Pressures		
	Field	Office	Field	Office	Field	Office	Reported
Initial Hydrostatic	9674	9717	9777	9821			Computed
First Period Flow	Initial	UTR	3315	3419			Minutes
	Final		3479	3482			182
	Closed In	Clock	9055	9037			189
Second Period Flow	Initial	stopped,					70-CS
	Final						
	Closed In						
Third Period Flow	Initial						
	Final						
	Closed In						
Final Hydrostatic	9505	9513??	9647	9318-??			

FORM 101-R2-PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE & 102846 9/74

CC7

KIRBY

Lease Name

Well No.

Test No.

Tested Interval

Lease Owner/Company Name

DELHI INTERNATIONAL OIL CORPORATION

00054

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 000710
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

[illegible]

FORM 102-R1-PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S 48672 EM 6/7

Gauge No. 3455		Depth 12323'		Clock No. 6719		24 hour		Ticket No. 000716							
First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0															
1															
2															
3			NO READINGS ARE AVAILABLE: CLOCK STOPPED.....												
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															

Gauge No. 4341		Depth 12462'		Clock No. 8083		24 hour	
0	.000	3419	.000	3482			
1	.0854	3298	.0165	7694			
2	.1709	3333	.0330	8790			
3	.2563	3369	.0495	8838			
4	.3417	3397	.0660	8868			
5	.4272	3427	.0825	8895			
6	.5126	3455	.0990	8914			
7	.5980	3482	.1155	8933			
8			.1320	8951			
9			.1485	8970			
10			.1650	8987			
11			.1815	9000			
12			.1980	9013			
13			.2145	9029			
14			.2310	9037-CS			
15							

Reading Interval: 26 5 Minutes

REMARKS:
CS = Clock stopped after approximately 70 minutes.

FORM 102-R1-PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE/1 00673 75C 8/74

00055

TICKET NO. 000716 00056

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"		1.00'	
Water Cushion Valve				
Drill Pipe	5"	4.276"	11950'	
Drill Collars	6 1/4"	2 13/16"	364'	
Handling Sub & Choke Assembly XO Sub	6 1/4"		1.66'	
Dual CIP Valve				
Dual CIP Sampler	5"		5.00'	
Hydro-Spring Tester	5"		5.00'	12318'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"		4.13'	12323'
Hydraulic Jar	5"		3.29'	
VR Safety Joint	5"		2.78'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"		6.10'	12337'
Distributor	5"		2.00'	
Packer Assembly	7 3/4"		6.10'	12345'
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"		4.30'	
Flush Jt. Anchor	5"		5.00'	
Side Wall Anchor XO Sub			.62'	
Drill Collars	6 1/4"		90.63'	
Flush Joint Anchor	5"		.68'	
Blanked-Off B.T. Running Case	5"		12.00'	
Blanked-Off B.T. Running Case	5"		4.10'	12462'
Total Depth				12466' PB

P AN 187-R1-PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S DATA REC 8/74

**GEARHART
CORE DATA**

GEARHART CORE DATA PTY. LTD.

SANTOS LIMITED

CORE GAMMA RAY for

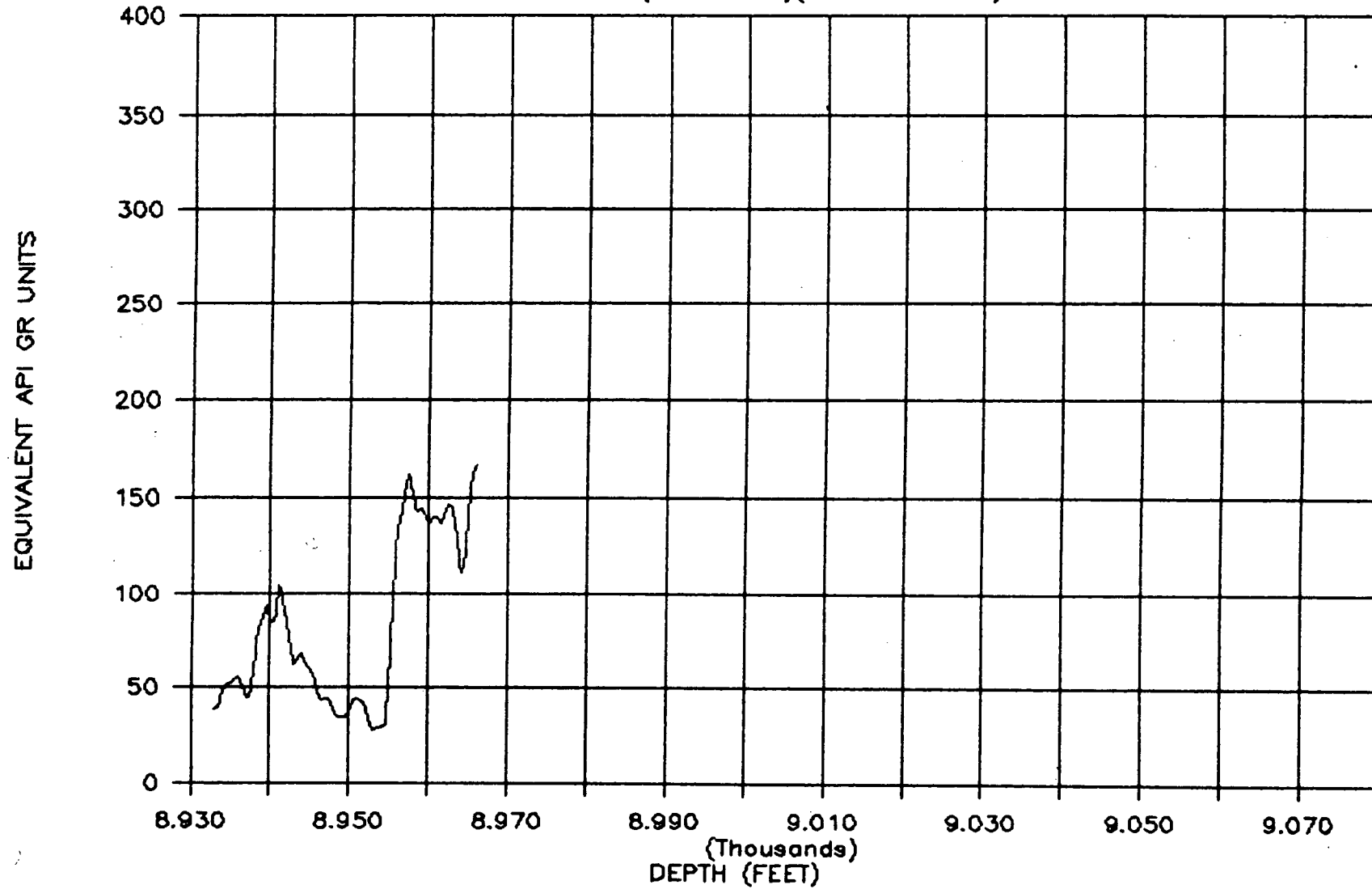
MOOMBA / BIG LAKE / NAPPAMERRI TROUGH

886275



KIRBY NO 1

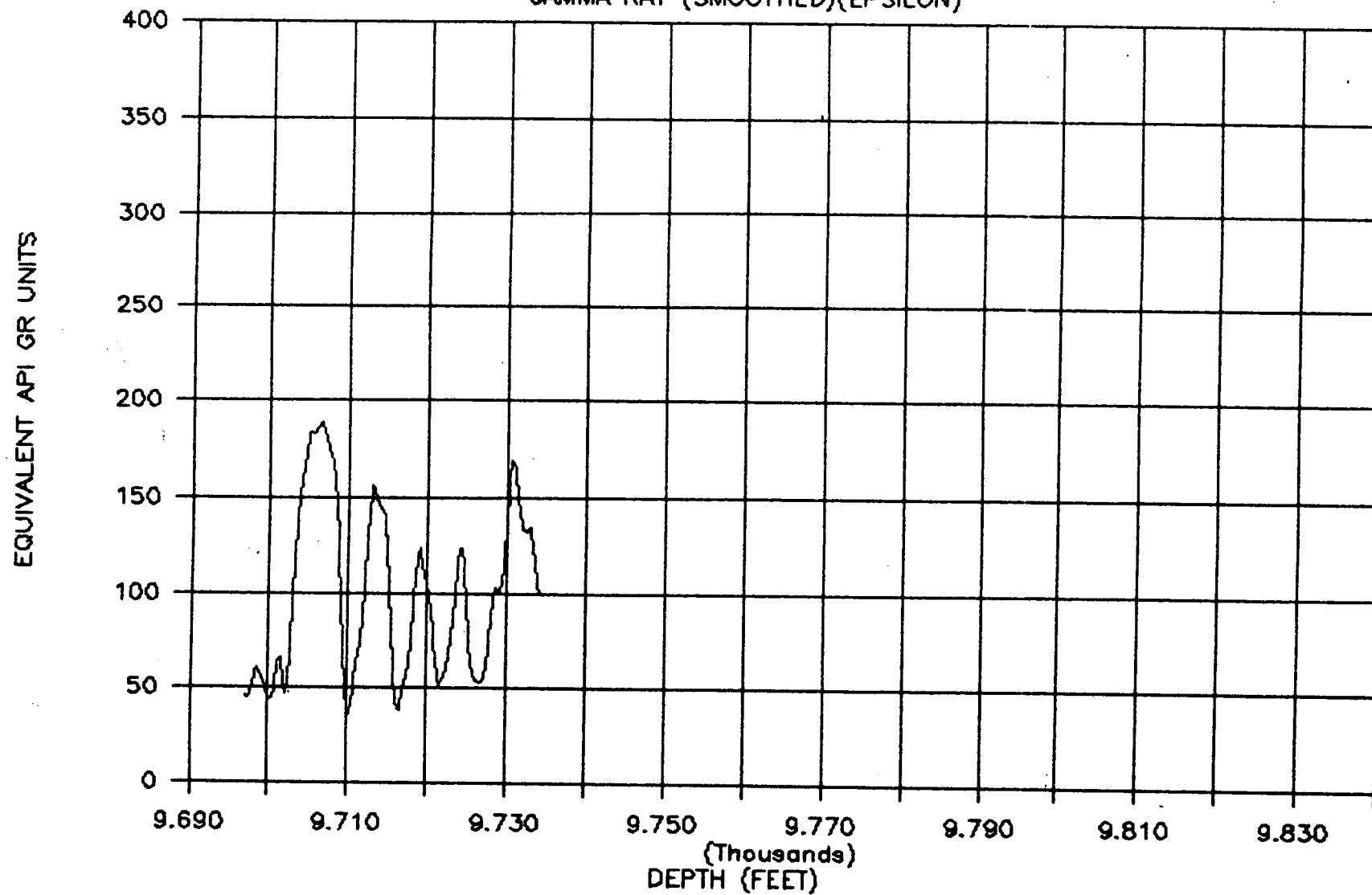
GAMMA RAY (SMOOTHED)(TOOLACHEE FM)



00058

KIRBY NO 1

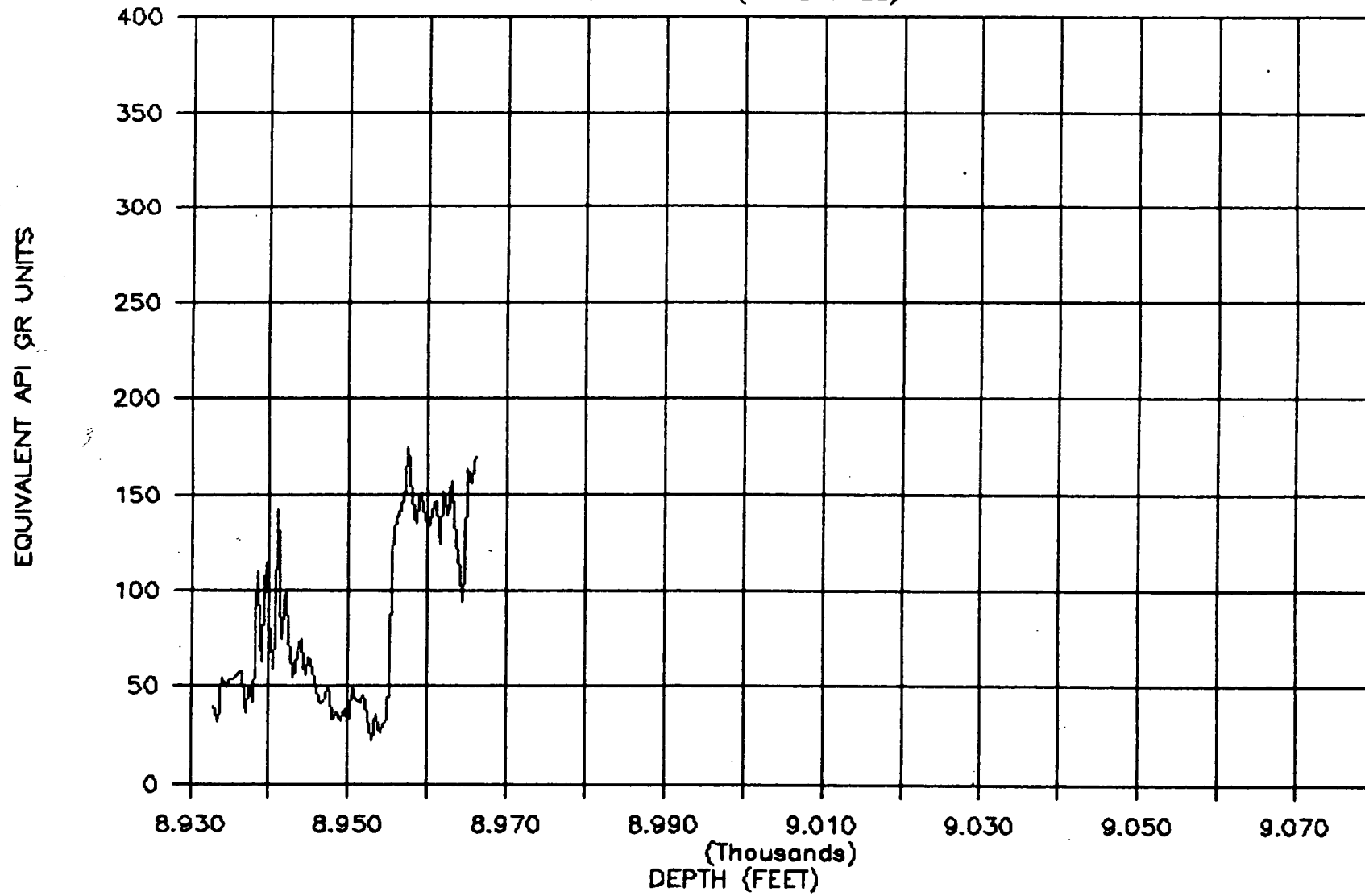
GAMMA RAY (SMOOTHED)(EPSILON)



00059

KIRBY NO 1

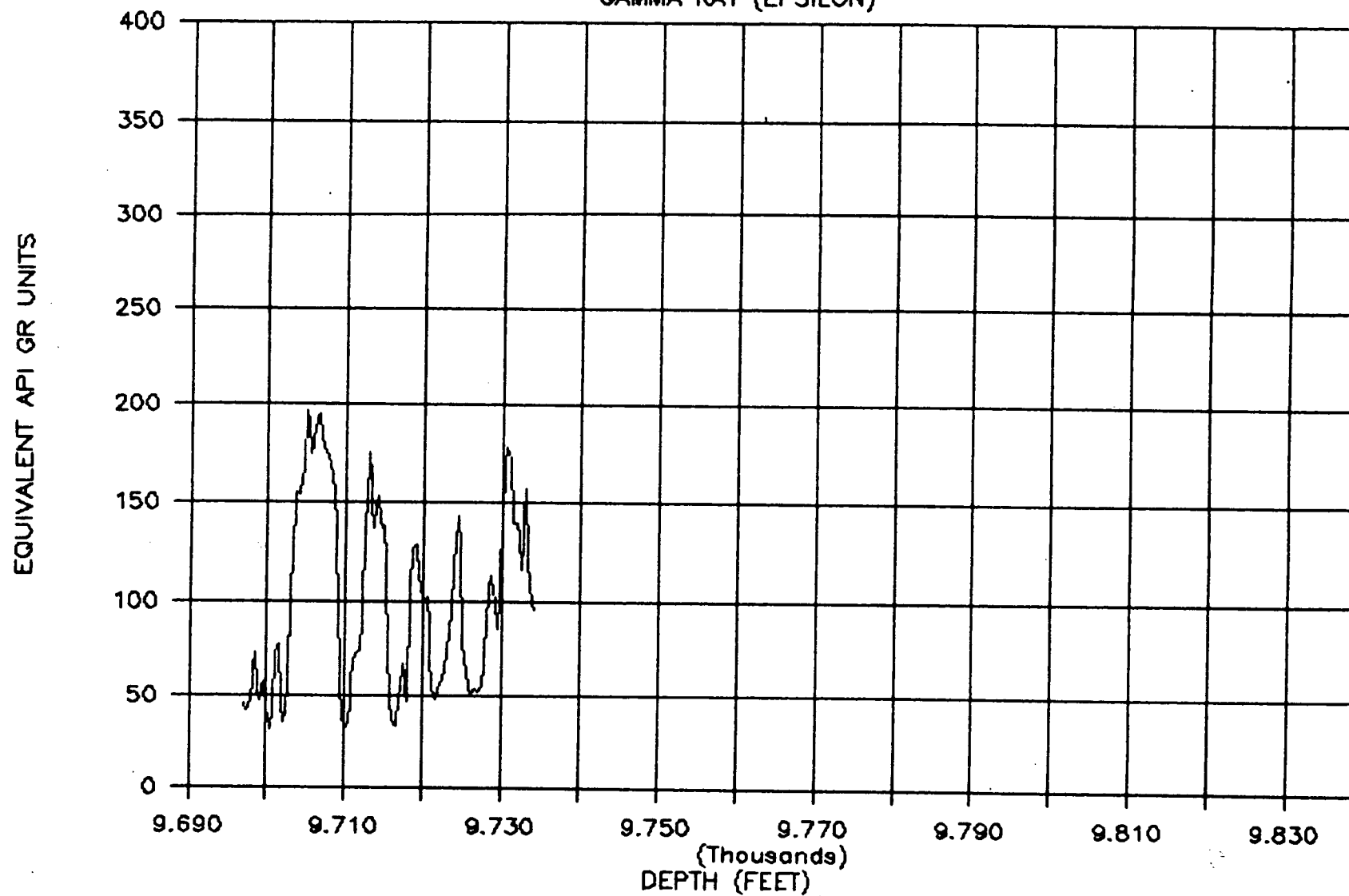
GAMMA RAY (TOOLACHEE)



09000

KIRBY NO 1

GAMMA RAY (EPSILON)



00061

KIRBY 1

SYNTHETIC SEISMOGRAM

PRIMARIES ONLY

SOUTH AUSTRALIAN OIL AND GAS CORP

DATE 11/ 8 / 1982

