

APPENDICES 2

DRILL STEM TEST RESULTS

OILMIN N.L.

DRILL STEM TEST REPORT

Report No. 1Well West Mereenie No.4 Elevation K.B. 2473 ft. Elevation G.L. 2453 ft. Date 27/7/83Test No. 1 Interval 4930.14-4965 ft. Operator HalliburtonTester Size & Type 5" Hydrospring Packer Size & Type 8-1/2" NR No. 3Anchor Length & O.D. 24 ft. - 5" Drill collar footage above Packer _____Capacity Bbls/ft. Drill Pipe 0.0142 Collars 0.00519Pressure Recorders Type BORDEN Position TOP Depth _____Type BORDEN Position BOTTOM Depth _____Perforated Anchor from 4960.94 to 4936.94Choke Size: Top 1/2" Bottom 3/4" Water Cushion NIL Mud Wt. 9.3 Vis. 60Hole Size 10-3/4" to 2194 ft. Rat hole size 9-5/8" to 4965 ft.Mud Level: Before valve opened TO FLOW LINE After valve opened _____

Time Record: Started clocks at _____ Hrs. Started in hole at _____ Hrs.

Opened Valve at 1601 Hrs. Shut in at 1611 Hrs. Opened at 1641 Hrs. Shut in at 1811 Hrs.

Pulled Packer at _____ Hrs. Out of hole at _____ Hrs. Recovered chart at _____ Hrs.

Nature of Blow Weak increasing steadily to moderate. Remains at moderate for 2nd flow period.Fluid flow (details) Nil to surface.Recovery Recover 33 bbls of salt water on reverse circulation.Pressures I.H.P. 2438 psig IFP 291 psig ISIP 1887 psig FFP 1102 psig FSIP 1874 psigF.H.P. 2438 psigElapsed Times: Initial flow 10 mins. Initial Shut in 30 mins.Final flow 90 mins. Final Shut in 180 mins.Maximum Temperature 140°F Samples Taken 2 water samples on reverse circulation.Remarks Salinity of water 28,000 ppm Cl- \approx 46,200 ppm NaCl equivalent.



TICKET NO. 19816900
01-SEP-83
ALICE SPRINGS

FORMATION TESTING SERVICE REPORT

WELL NAME	4	WELL NO.	1	TEST NO.	4930.1 - 4965.1	TESTED INTERVAL	01LMIN GROUP
LEASE NAME							LEASE OWNER/COMPANY NAME
LEGAL LOCATION	SEE REMARKS	FIELD	HERENIE	COUNTY	SEE REMARKS	STATE	AUSTRALIA NH
SEC. - TYP. - RING.		BRER					

GAUGE NO: 8511 DEPTH: 4907.7 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2400	2449.1			
B	INITIAL FIRST FLOW	53	64.6	10.0	8.9	F
C	FINAL FIRST FLOW	277	284.4			
C	INITIAL FIRST CLOSED-IN	277	284.4	30.0	29.8	C
D	FINAL FIRST CLOSED-IN	1858	1862.0			
E	INITIAL SECOND FLOW	277	307.4	90.0	90.2	F
F	FINAL SECOND FLOW	1080	1087.5			
F	INITIAL SECOND CLOSED-IN	1080	1087.5	198.0	194.2	C
G	FINAL SECOND CLOSED-IN	1844	1849.5			
H	FINAL HYDROSTATIC	2374	2420.7			

GAUGE NO: 8510 DEPTH: 4961.9 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2438	2483.2			
B	INITIAL FIRST FLOW	53	93.7	10.0	8.9	F
C	FINAL FIRST FLOW	291	301.2			
C	INITIAL FIRST CLOSED-IN	291	301.2	30.0	29.8	C
D	FINAL FIRST CLOSED-IN	1887	1889.6			
E	INITIAL SECOND FLOW	291	323.9	90.0	90.2	F
F	FINAL SECOND FLOW	1102	1111.7			
F	INITIAL SECOND CLOSED-IN	1102	1111.7	198.0	194.2	C
G	FINAL SECOND CLOSED-IN	1874	1881.7			
H	FINAL HYDROSTATIC	2438	2464.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: PACOOTTA # 3
NET PAY (ft): 34.9
GROSS TESTED FOOTAGE: 34.9
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft): _____
HOLE OR CASING SIZE (in): 9.625
ELEVATION (ft): 2473
TOTAL DEPTH (ft): 4965.0
PACKER DEPTH(S) (ft): 4922. 4930
FINAL SURFACE CHOKE (in): 0.500
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.30
MUD VISCOSITY (sec): 60
ESTIMATED HOLE TEMP. (°F): _____
ACTUAL HOLE TEMP. (°F): 140 @ 4961.0 ft

TICKET NUMBER: 19816900

DATE: 7-28-83 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:
ALICE SPRINGS

TESTER: VANCE BLATT

WITNESS: DAVID WARNER

DRILLING CONTRACTOR:
MEREENIE # 1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>DRILL STRING</u>	<u>0</u> °F	<u>28000</u> ppm
_____	<u>0</u> °F	<u>_____</u> ppm
_____	<u>0</u> °F	<u>_____</u> ppm
_____	<u>0</u> °F	<u>_____</u> ppm
_____	<u>0</u> °F	<u>_____</u> ppm
_____	<u>0</u> °F	<u>_____</u> ppm

SAMPLER DATA

Pstg AT SURFACE: _____
cu.ft. OF GAS: _____
cc OF OIL: _____
cc OF WATER: _____
cc OF MUD: _____
TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 0 °F
GAS/OIL RATIO (cu.ft. per bbl): _____
GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

33 BARRELS OF SALT WATER IN DRILL PIPE

MEASURED FROM
TESTER VALVE

REMARKS:

LEGAL LOCATION: 23 DEGREES 56 MINUTES 30 SECONDS S AND 131 DEGREES 26
MINUTES 24 SECONDS E
COUNTY: NORTHERN TERRITORY

TYPE & SIZE MEASURING DEVICE: .5" SURFACE CHOKE

TICKET NO: 19816900[illegible]

TICKET NO: 19816900

CLOCK NO: 26218 HOUR: 24



HALLIBURTON

 SERVICES

GAUGE NO: 8511

DEPTH: 4907.7

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$		
FIRST FLOW						SECOND CLOSED-IN - CONTINUED							
B	1	0.0	64.6			9	40.0	1818.3	730.8	28.5	0.541		
	2	2.0	104.1	39.4		10	45.0	1821.4	733.9	31.0	0.505		
	3	4.0	162.9	58.8		11	50.0	1823.9	736.4	33.2	0.474		
	4	6.0	219.9	57.0		12	55.0	1826.4	738.9	35.4	0.447		
	5	8.0	266.1	46.2		13	60.0	1828.4	740.9	37.4	0.423		
C	6	8.9	284.4	18.3		14	70.0	1832.1	744.6	41.0	0.383		
						15	80.0	1835.0	747.5	44.2	0.350		
FIRST CLOSED-IN						16	90.0	1837.1	749.6	47.1	0.322		
C	1	0.0	284.4			17	100.0	1839.1	751.6	49.8	0.299		
	2	2.0	1757.9	1473.5	1.7	0.729	18	110.0	1840.9	753.4	52.1	0.279	
	3	4.0	1802.1	1517.7	2.8	0.507	19	120.0	1842.1	754.6	54.3	0.261	
	4	6.0	1819.8	1535.4	3.6	0.395	20	130.0	1843.8	756.3	56.2	0.246	
	5	8.0	1830.5	1546.0	4.2	0.323	21	140.0	1845.0	757.5	58.0	0.232	
	6	10.0	1837.5	1553.0	4.7	0.275	22	150.0	1846.8	759.3	59.6	0.220	
	7	12.0	1842.5	1558.0	5.1	0.240	23	160.0	1847.1	759.6	61.2	0.209	
	8	14.0	1847.0	1562.5	5.4	0.212	24	170.0	1848.2	760.7	62.6	0.199	
	9	16.0	1849.9	1565.4	5.7	0.191	25	180.0	1848.5	761.0	63.9	0.190	
	10	18.0	1852.2	1567.8	5.9	0.174	26	190.0	1849.2	761.7	65.1	0.182	
	11	20.0	1854.5	1570.1	6.1	0.159	G	27	194.2	1849.5	762.0	65.6	0.179
	12	22.0	1856.2	1571.8	6.3	0.147							
	13	24.0	1858.2	1573.7	6.5	0.136							
	14	26.0	1859.4	1574.9	6.6	0.127							
	15	28.0	1860.6	1576.1	6.7	0.119							
	D	16	29.8	1862.0	1577.6	6.8	0.113						
SECOND FLOW													
E	1	0.0	307.4										
	2	10.0	403.0	95.6									
	3	20.0	512.0	108.9									
	4	30.0	614.5	102.5									
	5	40.0	709.3	94.9									
	6	50.0	795.7	86.3									
	7	60.0	876.2	80.5									
	8	70.0	950.9	74.7									
	9	80.1	1023.2	72.2									
	F	10	90.2	1087.5	64.3								
SECOND CLOSED-IN													
F	1	0.0	1087.5										
	2	5.0	1762.1	674.6	4.8	1.315							
	3	10.0	1781.5	694.0	9.0	1.039							
	4	15.0	1792.1	704.6	13.0	0.881							
	5	20.0	1799.6	712.1	16.6	0.775							
	6	25.0	1805.5	719.0	20.0	0.696							
	7	30.0	1810.8	723.3	23.0	0.633							
	8	35.0	1815.3	727.8	25.8	0.584							

REMARKS:

TICKET NO: 19816900

CLOCK NO: 7273 HOUR: 24



HALLIBURTON

 SERVICES

GAUGE NO: 8510

DEPTH: 4961.9

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	93.7			
2	2.0	141.0	47.4		
3	4.0	186.3	45.2		
4	6.0	245.2	59.0		
5	8.0	290.0	44.7		
C 6	8.9	301.2	11.2		


















FIRST CLOSED-IN					
C 1	0.0	301.2			
2	2.0	1809.0	1507.8	1.6	0.742
3	4.0	1838.1	1536.9	2.8	0.507
4	6.0	1852.7	1551.6	3.6	0.395
5	8.0	1862.3	1561.1	4.2	0.322
6	10.0	1868.5	1567.3	4.7	0.276
7	12.0	1873.4	1572.3	5.1	0.240
8	14.0	1876.9	1575.7	5.4	0.213
9	16.0	1880.3	1579.1	5.7	0.191
10	18.0	1882.6	1581.4	5.9	0.174
11	20.0	1884.3	1583.2	6.1	0.159
12	22.0	1886.0	1584.9	6.3	0.147
13	24.0	1887.3	1586.2	6.5	0.136
14	26.0	1888.8	1587.6	6.6	0.127
15	28.0	1889.4	1588.3	6.7	0.119
D 16	29.8	1889.6	1588.4	6.8	0.113

SECOND FLOW					
E 1	0.0	323.9			
2	10.0	429.0	105.1		
3	20.0	538.3	109.3		
4	30.0	639.4	101.1		
5	40.0	734.9	95.5		
6	50.0	822.7	87.8		
7	60.0	902.8	80.1		
8	70.0	977.4	74.6		
9	80.0	1045.6	68.2		
F 10	90.2	1111.7	66.1		

SECOND CLOSED-IN					
F 1	0.0	1111.7			
2	5.0	1790.6	678.9	4.8	1.316
3	10.0	1809.8	698.1	9.1	1.037
4	15.0	1820.8	709.1	13.0	0.881
5	20.0	1829.3	717.6	16.6	0.775
6	25.0	1835.8	724.1	20.0	0.695
7	30.0	1840.7	729.0	23.0	0.634
8	35.0	1844.4	732.6	25.9	0.583

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
9	40.0	1848.4	736.7	28.5	0.541
10	45.0	1851.3	739.6	30.9	0.505
11	50.0	1853.8	742.1	33.2	0.474
12	55.0	1856.4	744.7	35.4	0.447
13	60.0	1858.8	747.0	37.4	0.423
14	70.0	1862.0	750.3	41.0	0.383
15	80.0	1865.5	753.7	44.3	0.350
16	90.0	1867.9	756.2	47.1	0.322
17	100.0	1870.3	758.6	49.8	0.299
18	110.0	1871.9	760.2	52.1	0.279
19	120.0	1874.4	762.6	54.3	0.261
20	130.0	1875.1	763.4	56.2	0.246
21	140.0	1876.7	765.0	58.0	0.232
22	150.0	1878.0	766.3	59.6	0.220
23	160.0	1879.2	767.5	61.2	0.209
24	170.0	1880.3	768.5	62.6	0.199
25	180.0	1881.0	769.3	63.9	0.190
26	190.0	1882.1	770.4	65.1	0.182
G 27	194.2	1881.7	770.0	65.6	0.179

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4255.5	
4		FLEX WEIGHT.....	6.500	3.060	182.9	
3		DRILL COLLARS.....	6.500	2.250	436.1	
50		IMPACT REVERSING SUB.....	5.250	3.000	1.0	4864.0
3		DRILL COLLARS.....	6.500	2.250	31.0	
5		CROSSOVER.....	6.250	3.750	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	4.9	
60		HYDROSPRING TESTER.....	5.000	0.750	5.3	4906.7
80		AP RUNNING CASE.....	5.000	2.250	4.1	4907.7
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	8.500	1.750	6.0	4922.1
18		DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70		OPEN HOLE PACKER.....	8.500	1.750	6.0	4930.1
19		ANCHOR PIPE SAFETY JOINT.....	5.000	1.500	4.3	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	24.0	
81		BLANKED-OFF RUNNING CASE.....	5.000	2.440	4.1	4961.9
TOTAL DEPTH					4965.0	

EQUIPMENT DATA

OILMIN N.L.

DRILL STEM TEST REPORT

Report No. 2Well West Mereenie No. 4 Elevation K.B. 2473 ft. Elevation G.L. 2453 ft. Date 31/8/83Test No. 2 Interval 4946.7-5035 ft. Operator HalliburtonTester Size & Type 5" Hydrospring Packer Size & Type 8-1/2" NR No. 3Anchor Length & O.D. 88.28 ft. (5" & 6" O.D.) Drill collar footage above Packer 467.01 ft.Capacity Bbls/ft. Drill Pipe 0.0142 Collars _____Pressure Recorders Type BORDEN Position TOP Depth 4921.46 ft.Type BORDEN Position BOTTOM Depth 5030.98 ft.Perforated Anchor from 5030.98 ft. to 5015.98 ft.Choke Size: Top 1/2" Bottom 3/4" Water Cushion NIL Mud Wt. 9.5 Vis. _____Hole Size 10-3/4" CSG to _____ Rat hole size 9-7/8" to 5035 ft.Mud Level: Before valve opened AT FLOW LINE After valve opened AT FLOW LINETime Record: Started clocks at 2055 Hrs. Started in hole at 2130 Hrs.Opened Valve at 0621 Hrs. Shut in at 0633 Hrs. Opened at 0717 Hrs. Shut in at no shut-in Hrs. *Tool stuck,*Pulled Packer at 0950 Hrs. Out of hole at _____ Hrs. Recovered chart at _____ Hrs.Nature of Blow Initial blow weak, slowly increasing. Weak initial blow 2nd flow; sharp increase to moderate-strong at 0721 hrs, 0727 hrs 2 psi, 0752 hrs 3 psi, 0811 hrs 1 psi, 0910 hrs 0 psi, no blow.Fluid flow (details) NilRecovery Brief gas flare (approx. 1 min) and recovered 2.5 bbls of gas and oil cut mud.No free oil. Retort oil 70%, 10% water and grey material.

Pressures I.H.P. _____ psig IFP _____ psig ISIP _____ psig FFP _____ psig FSIP _____ psig

F.H.P. _____ psig

Elapsed Times: Initial flow 12 mins. Initial Shut in 44 mins.Final flow 153 mins. Final Shut in no shut-in mins. *Tool stuck,*Maximum Temperature _____ Samples Taken 1 gas and 1 gas and oil cut mud.Remarks Tried to shut-in tool at 0917 hrs. Can't rotate to shut-in. Shut-in at surfacewhen packer pulled at 0950 hrs. Reverse circulate and collect samples. Tool still in hole as of 5/9/83.

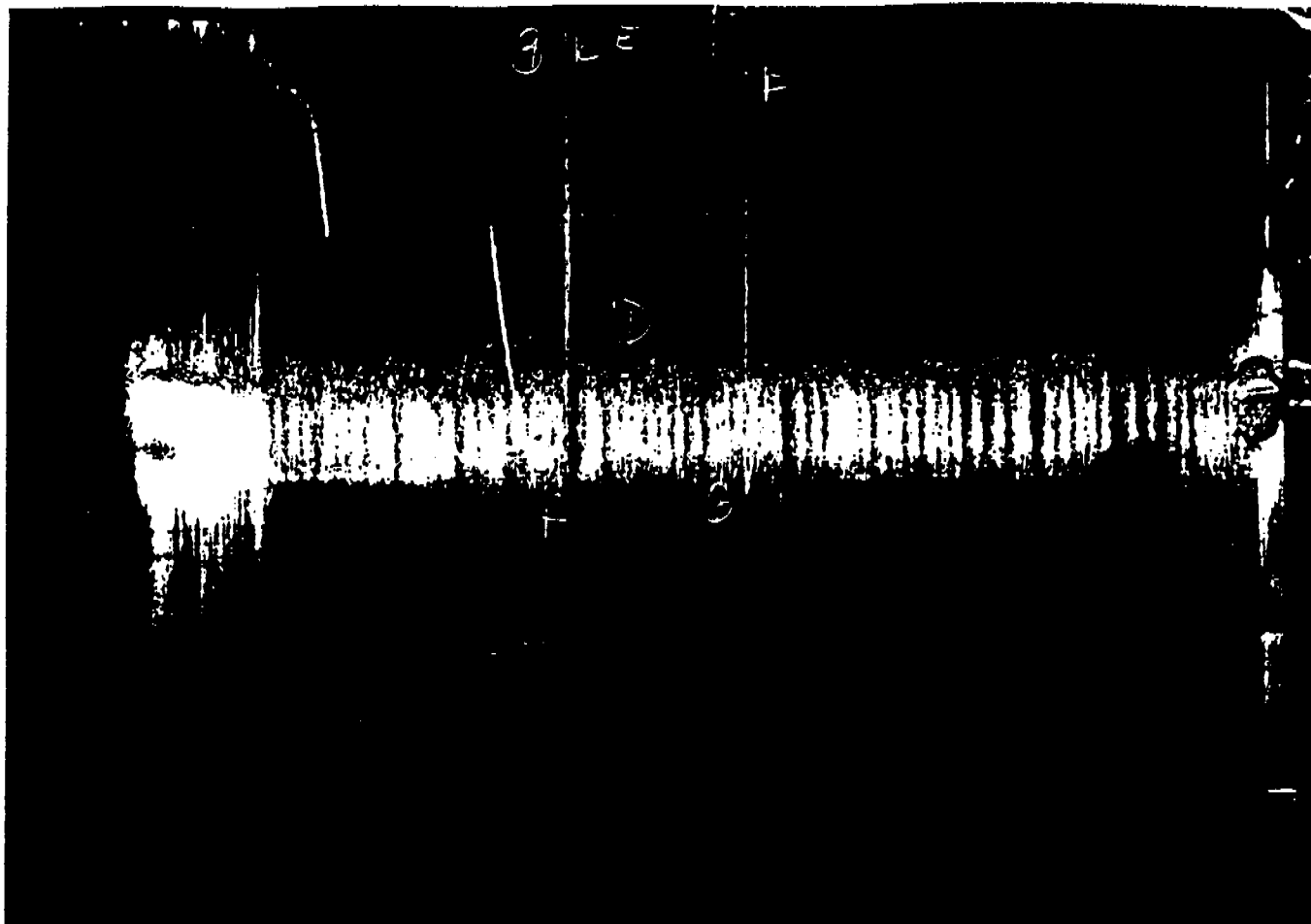
David Warner



TICKET NO. 19764900
10-NOV-83
ALICE SPRINGS

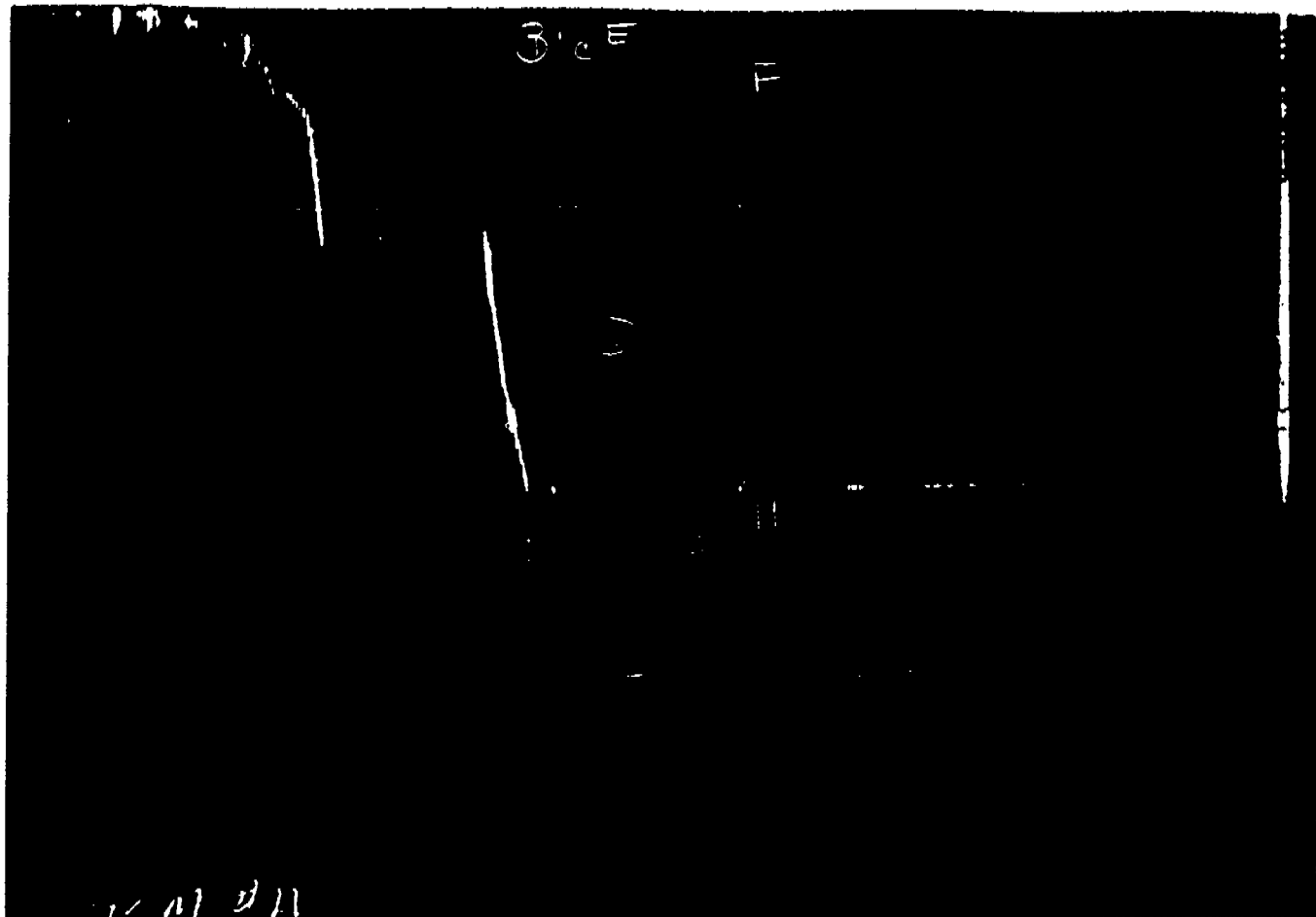
FORMATION TESTING SERVICE REPORT

WEST MERRENIE		4	2	4947.1 - 5035.1	OLHIN N.L.
LEASE NAME		WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RANG.	SEE REMARKS	FIELD AREA	ANADEUS BASIN	COUNTRY - NORTH TERRITORY	STATE - AUSTRALIA PY



GAUGE NO: 8511 DEPTH: 4921.5 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2356.8			
B	INITIAL FIRST FLOW	79	78.6			
C	FINAL FIRST FLOW	158	138.3	12.0	12.9	F
C	INITIAL FIRST CLOSED-IN	158	138.3			
D	FINAL FIRST CLOSED-IN	1461	1453.4	44.0	43.6	C
E	INITIAL SECOND FLOW	185	178.4			
F	FINAL SECOND FLOW	264	270.4	153.0	152.6	F
G	FINAL HYDROSTATIC		2350.8			



GAUGE NO: 8510 DEPTH: 5030.9 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2438	2430.3			
B	INITIAL FIRST FLOW	93	90.8	12.0	12.9	F
C	FINAL FIRST FLOW	185	188.0			
C	INITIAL FIRST CLOSED-IN	185	188.0	44.0	43.6	C
D	FINAL FIRST CLOSED-IN	1508	1515.3			
E	INITIAL SECOND FLOW	225	237.7	153.0	152.6	F
F	FINAL SECOND FLOW	318	317.7			
G	FINAL HYDROSTATIC	2438	2427.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: PACQOTA SANDSTONE

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 88.3ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 9.875ELEVATION (ft): 2473TOTAL DEPTH (ft): 5035.0PACKER DEPTH(S) (ft): 4939, 4947FINAL SURFACE CHOKE (in): 0.500BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.40MUD VISCOSITY (sec): 46

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 140 @ 5030.9 ftTICKET NUMBER: 19764900DATE: 8-31-83 TEST NO: 2TYPE DST: OPEN HOLEHALLIBURTON CAMP:
ALICE SPRINGSTESTER: RED SKINNER

WITNESS: _____

DRILLING CONTRACTOR:
COMPANY TOOLSFLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm
_____	_____ @ _____°F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: _____
cu.ft. OF GAS: _____
cc OF OIL: _____
cc OF WATER: _____
cc OF MUD: _____
TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____°F
GAS/OIL RATIO (cu.ft. per bbl): _____
GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

2.11 BBLs. OF GAS AND OIL CUT MUD

MEASURED FROM
TESTER VALVE

REMARKS:

- HOLE IS ON A 30 DEGREE DEVIATION
- T.V.D. = 4742' AT 5035'
- LEGAL LOCATION: LAT. 23 DEGREES - 56' - 46" SOUTH
LONG. 131 DEGREES - 26' - 12" EAST

TYPE & SIZE MEASURING DEVICE: .50" SURFACE CHOKE					TICKET NO: 19764900
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
8-30-83					
2055					LOADED CLOCKS
2130					MADE-UP TOOLS AND RUN IN HOLE
					TO CASING SHOE AND WAITED ON
					ORDERS.
8-31-83					
0618					SET PACKER
0621					OPENED TOOL WITH A WEAK BLOW -
					INCREASING.
0633					CLOSED TOOL
0717					REOPENED TOOL WITH A WEAK BLOW -
					INCREASING.
0722					MODERATE BLOW
0727		2			MODERATE BLOW
0732		2			"
0737		3			"
0742		3			"
0752		3.5			"
0754	.5"	2			OPENED FLARE LINE
0811	.5"				FLARE LINE CLEAR - CLOSE
					FLARE LINE
0817		1			MODERATE BLOW
0832		1			"
0852		1			"
0902	.5"				OPENED FLARE LINE - WEAK BLOW
					DECREASING TO A VERY WEAK BLOW.
0917					TRIED TO ROTATE DUAL CIP FOR
					SECOND CIP. CANNOT ROTATE
0944					UNSET PACKERS
0950					TOOLS OFF BOTTOM
1000					DROPPED BAR AND REVERSED OUT
1100					TRIED TO PULL OUT OF HOLE -
					PIPE STUCK - COLLARS ARE STUCK
					TO BOTTOM SIDE OF HOLE.
9-7-83					
1930					BACKED ANCHOR PIPE SAFETY JOINT
					OFF AND PULLED OUT OF HOLE.

TYPE & SIZE MEASURING DEVICE: .50" SURFACE CHOKE

.50" SURFACE CHOKE

TICKET NO: 19764900

[illegible]

TICKET NO: 19764900

CLOCK NO: 26218 HOUR: 24


HALLIBURTON
SERVICES

GAUGE NO: 8511

DEPTH: 4921.5

REF	MINUTES	PRESSURE	AP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	78.6								
	2	2.0	80.6	2.0							
	3	4.0	81.1	0.5							
	4	6.0	91.4	10.3							
	5	8.0	104.2	12.8							
	6	10.0	117.9	13.7							
C	7	12.9	138.3	20.3							
FIRST CLOSED-IN											
C	1	0.0	138.3								
	2	3.0	381.3	243.0	2.5 0.718						
	3	6.0	903.2	764.9	4.1 0.499						
	4	9.0	1064.7	926.5	5.3 0.386						
	5	12.0	1147.6	1009.4	6.2 0.317						
	6	15.0	1201.4	1063.2	6.9 0.269						
	7	18.0	1241.7	1103.5	7.5 0.235						
	8	21.0	1280.9	1142.7	8.0 0.208						
	9	24.0	1313.7	1175.4	8.4 0.187						
	10	27.0	1343.3	1205.0	8.7 0.169						
	11	30.0	1367.8	1229.5	9.0 0.155						
	12	33.0	1392.2	1254.0	9.3 0.143						
	13	36.0	1413.8	1275.6	9.5 0.133						
	14	39.0	1432.4	1294.1	9.7 0.124						
	15	42.0	1449.5	1311.2	9.9 0.116						
D	16	43.6	1453.4	1315.2	9.9 0.112						
SECOND FLOW											
E	1	0.0	178.4								
	2	10.0	194.6	16.2							
	3	20.0	215.8	21.2							
	4	30.0	230.3	14.5							
	5	40.0	231.4	1.1							
	6	50.0	238.9	7.5							
	7	60.0	240.9	2.0							
	8	70.0	245.4	4.5							
	9	80.0	254.1	8.7							
	10	90.0	253.3	-0.8							
	11	100.0	258.2	4.9							
	12	110.0	264.0	5.8							
	13	120.0	259.6	-4.4							
	14	130.0	271.9	12.3							
	15	140.0	270.8	-1.1							
	16	150.0	268.3	-2.5							
F	17	152.6	270.4	2.1							

REMARKS:

TICKET NO: 19764900

CLOCK NO: 7273 HOUR: 24



HALLIBURTON





















 SERVICES

GAUGE NO: 8510

DEPTH: 5030.9

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	90.8								
	2	2.0	102.6	11.9							
	3	4.0	123.5	20.8							
	4	6.0	141.0	17.5							
	5	8.0	158.7	17.7							
	6	10.0	171.5	12.8							
C	7	12.9	188.0	16.5							
FIRST CLOSED-IN											
C	1	0.0	188.0								
	2	3.0	419.9	231.9	2.4	0.725					
	3	6.0	1010.7	822.7	4.1	0.500					
	4	9.0	1148.2	960.3	5.3	0.386					
	5	12.0	1216.2	1028.2	6.2	0.317					
	6	15.0	1267.6	1079.6	6.9	0.270					
	7	18.0	1310.5	1122.6	7.5	0.234					
	8	21.0	1346.0	1158.0	8.0	0.208					
	9	24.0	1376.0	1188.0	8.4	0.187					
	10	27.0	1402.4	1214.4	8.7	0.170					
	11	30.0	1428.7	1240.8	9.0	0.155					
	12	33.0	1453.3	1265.4	9.3	0.143					
	13	36.0	1473.9	1285.9	9.5	0.133					
	14	39.0	1492.9	1304.9	9.7	0.124					
	15	42.0	1510.6	1322.6	9.9	0.116					
D	16	43.6	1515.3	1327.3	9.9	0.112					
SECOND FLOW											
E	1	0.0	237.7								
	2	10.0	241.9	4.2							
	3	20.0	262.1	20.2							
	4	30.0	278.1	16.0							
	5	40.0	279.0	0.9							
	6	50.0	285.5	6.5							
	7	60.0	287.4	2.0							
	8	70.0	291.4	4.0							
	9	80.0	300.8	9.4							
	10	90.0	299.1	-1.7							
	11	100.0	305.3	6.2							
	12	110.0	309.9	4.6							
	13	120.0	305.5	-4.4							
	14	130.0	319.5	14.0							
	15	140.0	316.9	-2.6							
	16	150.0	314.9	-2.0							
F	17	152.6	317.7	2.8							

REMARKS:

		O.D.	I.O.	LENGTH	DEPTH
1					
1	DRILL PIPE.....	4.500	3.826	4259.7	
1					
1	DRILL PIPE.....	4.500	2.875	182.9	
3					
3	DRILL COLLARS.....	6.500	2.250	437.0	
50					
50	IMPACT REVERSING SUB.....	6.000	2.750	1.0	4880.1
3					
3	DRILL COLLARS.....	6.500	2.250	30.0	
5					
5	CROSSOVER.....	6.000	2.750	1.0	
12					
12	DUAL CIP VALVE.....	5.000	0.870	4.9	
60					
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	4920.5
80					
80	AP RUNNING CASE.....	5.000	3.750	4.1	4921.5
15					
15	JAR.....	5.000	1.750	5.0	
16					
16	VR SAFETY JOINT.....	5.000	1.000	2.8	
70					
70	OPEN HOLE PACKER.....	6.000	2.750	6.2	4938.5
18					
18	DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70					
70	OPEN HOLE PACKER.....	6.000	2.750	6.2	4946.7
19					
19	ANCHOR PIPE SAFETY JOINT.....	5.000	1.500	4.3	
5					
5	CROSSOVER.....	6.000	2.750	1.0	
3					
3	DRILL COLLARS.....	6.500	2.250	62.0	
5					
5	CROSSOVER.....	6.000	2.750	0.9	
20					
20	FLUSH JOINT ANCHOR.....	5.000	2.370	15.0	
81					
81	BLANKED-OFF RUNNING CASE.....	5.000		4.1	5030.9
TOTAL DEPTH					5035.0

EQUIPMENT DATA