

DEPT. NAT. RES & ENV



PE906021

W641

WELL COMPLETION REPORT
KEYSTONE NO. 1
HALLIDAY ENTERPRISES PTY. LTD.

641

31 JUL 1988

April 6, 1972.

WCR
KEYSTONE - 1
(W641)

WELL REPORT

COMPANY: Halliday Enterprises Pty. Ltd.

WELL: Keystone No. 1

LOCATION: Latitude: $38^{\circ} 19' 39''$ S
Longitude: $147^{\circ} 9' 21''$ E
P.E.P. 72 Gippsland Basin
Victoria, Australia.

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SUMMARY

The Keystone No. 1 well was drilled 3/10ths mile west of Crossroads No. 1 drilled by Halliday and Seaspray No. 1 drilled by Arco. These wells are about three miles northwest of Seaspray, Victoria in P. E. P. 72. The Keystone well was drilled under a farm - in arrangement with Woodside Oil N. L. and its partners.

The well had two objectives, the first to test the Latrobe Group in an updip position from Crossroads No. 1 and the second to test the upper portion of the Strzelecki Group for gas. The top of the Latrobe was encountered lower than in Crossroads No. 1

Keystone No. 1 was spudded on February 8, 1972, using Richter Bawden's MI rig, a National 110 D. E. The hole was plugged and abandoned at 6430 feet on February 19, 1972, as a dry hole.

Trouble was experienced with severe caving of the Latrobe coals. The coals were eventually stabilized by increasing weight and viscosity and adding diesel to the mud system.

No tests were conducted. Minor oil was encountered in the Latrobe Group and small gas shows were penetrated in the Strzelecki. There were no commercial accumulations of hydrocarbons in the well.

WELL HISTORYGeneral Data

Well Name:	Keystone No. 1	
Location:	Latitude: 38° 19' 39" S	Longitude: 147° 9' 21" E
Name and Address of Tenement Holder:	Woodside Oil N. L. 151 Flinders Street Melbourne, Victoria, 3000.	
Petroleum Tenement:	P. E. P. 72 (onshore) Victoria	
District:	Gippsland Basin	
Total Depth:	Driller:	6430'
	Schlumberger:	6427'
Date Drilling Commenced:	February 8, 1972	
Date Well Abandoned:	February 19, 1972	
Drilling Time to Total Depth:	10 days	
Elevations:	Ground level:	97 feet
	Kelly bushing:	114 feet
Status:	Plugged and abandoned.	

Drilling Data

Name and Address of Drilling Contractor: Richter Bawden Drilling Pty. Ltd.
Princess Gate Building
Flinders Street
Melbourne, Victoria, 3000.

Drilling Plant: Rig M1 National 110 D. E.
Capacity 16,000 feet
Motors: 3, PTS-6 Superiors

Mast: Lee C. Moore, Cantilever, 960,000 lb capacity.

Pumps: 1 National N11000, Duplex, 7 $\frac{1}{4}$ " x 16" compound
1 Emsco D1000 Duplex, 7 $\frac{3}{4}$ " x 18" compound

Blowout Preventors: 1 Cameron U 5000 lb. 13 $\frac{5}{8}$ "
1 G.K. 5000 lb. 13 $\frac{5}{8}$ " W.P. hydril

Hole Sizes: 17 $\frac{1}{2}$ " to 100'
12 $\frac{1}{4}$ " to 1033'
8 $\frac{3}{4}$ " to 6430' (T. D.)

Casing and Cement:

Setting Depth (KB)	95'	1006'
Size	13 $\frac{3}{8}$ "	9 $\frac{5}{8}$ "
Weight	54.5 lb	37 lb.
Grade	J55	J55
Thread	Buttress	8 round, buttress
Shoe and Collars	Guide shoe	Float collar, guide shoe
Centralizers 1	None	One
Cement	160 sxs 2% CaCl	375 sxs 2% CaCl
Cement method	Dowell, cmt head	Dowell cmt head

Drilling Mud: Fresh water gel, with diesel below 3700'

Water Supply: Piped from Crossroads No. 1

Drilling Mud Additives:

Gel	425 sxs
Caustic Soda	5 drums.
Qbroxin	10 sxs
Diesel	2510 gal.
Dextrid	8 sxs

Perforating: None

Plugs:

Plug No. 1 2600 - 2750 300 sxs cmt with 2% CaCl

Plug No. 2 900 - 1100' 130 sxs cmt

Plug No. 3 surface 10 sxs cmt

Fishing: None

Lost Circulation: Circulation was lost for 1 $\frac{1}{2}$ hours at 2910 feet into Latrobe sands due to excessive coal cavings and cuttings in hole. Continued partial losses occurred through entire Latrobe until coals were stabilized by high viscosity mud containing diesel fuel.

Bits:	No.	Size	Make	Type	In	Out	Ftage	Hours	Condition
	Surface	17 $\frac{1}{4}$	HTC	OSC	0	100	100	2	1-1-I
	1	12 $\frac{1}{4}$	HTC	OSC3	100	1034	934	7 $\frac{1}{4}$	1-1-I
	2	8 $\frac{1}{2}$	HTC	X3A	1034	3444	2410	19 $\frac{1}{4}$	3-6-I
	3	8 $\frac{1}{2}$	HTC	X1G	3444	4424	980	10 $\frac{3}{4}$	7-3-O $\frac{1}{8}$ "
	4	8 $\frac{1}{2}$	HTC	X1G	4424	4941	517	11 $\frac{1}{4}$	7-5-I
	5	8 $\frac{1}{2}$	HTC	X1G	4941	5489	548	11 $\frac{1}{2}$	7-4-I
	6	8 $\frac{1}{2}$	HTC	X1G	5489	5948	459	11 $\frac{3}{4}$	7-8-I
	7	8 $\frac{1}{2}$	HTC	X1G	5948	6430	482	16 $\frac{1}{4}$	3-4-I

FORMATION EVALUATION

Coring: No conventional
30 sidewall cores, taken by Schlumberger

Testing: None

Mudlogging: Hotwire and Chromatograph with Drill Rate
by Core Laboratories Australia Ltd.
Logger: D. Sisely

Wireline Logging: Laterolog - Spontaneous Potential and
Formation Density - Gamma Ray - Caliper,
by Schlumberger Seaco
Engineer: W. Chaffee
Intervals: LL-SP 6423-1006
FDC-GR 6426-2500

Ditch Samples: 10 foot washed and dried, 100'-6430 (T.D.)
Distribution: 1 set each to Halliday Enterprises
(stored at Victorian Mines Dept.
Woodside-Burmah N. L.
Victorian Mines Dept.)

Deviation Surveys:	Depth	Vertical Deviation
	1520	1 $^{\circ}$
	2010	3 $\frac{3}{4}$ $^{\circ}$
	2468	1 $^{\circ}$
	3500	1 $^{\circ}$
	4424	13 $\frac{3}{4}$ $^{\circ}$
	4931	13 $\frac{3}{4}$ $^{\circ}$
	5489	2 $^{\circ}$
	6430	21 $\frac{1}{4}$ $^{\circ}$

WELL EVALUATION

The well was evaluated by cutting samples, mudlog and wireline data. Minor oil slicks were noted on the shale shaker while conditioning mud during lost circulation and coal caving problems below 3400 feet. Small gas kicks were encountered from several thin zones in the Strzelecki Group. There were no commercial accumulations of hydrocarbon in the well.

GEOLOGY

Geology of the Keystone No. 1 well was obtained by wireline logs and ditch samples. Formation tops were taken from wireline data. Formation descriptions are of cuttings derived from ditch samples. All measurements are from the kelly bushing, 18 feet above ground level and 115 feet above sealevel.

From the surface to 450 feet occurred the Lower Pliocene sands of the Jemmy's Point Formation. They contained minor lignite, clay and coquina. The sands were loose to friable, fine to coarse grained, slightly lignitic in parts with minor to abundant biotite and some yellow or grey-green clay matrix.

From 450 feet to 545 feet occurred the Upper Miocene Tambo River formation. It was predominately a marly limestone with some coquina and marl interbeds. The limestone consisted of fossil debris in a grey-green matrix. Locally it contained abundant quartz grains.

The Miocene Gippsland Limestone occupied the interval 545 feet to 2118 feet. It was a white, cream, light grey to light grey-brown skeletal limestone, friable with thin hard streaks, generally porous, clean to dirty and often glauconitic. Below 1660 feet it contained interbedded thin grey-green marls which became thicker and more common below 2030 feet. The limestone was a porous fossil hash with minor micritic matrix except where hard. The pore space contained variable amounts of marly clay and glauconite with minor carbonaceous grains. The predominate fossils were forams, mollusks, echinoids, bryozoans and ostracods.

The Gippsland Limestone graded into the Oligocene Lakes Entrance formation which was predominately a grey-green, brown and grey-brown fossiliferous marl with hard grey limestone streaks and occasional siltstone. The marl graded to calcareous mudstone. Below 2450 feet, there were traces of pyrite and glauconite above 2550 feet. Below 2550 feet the formation was very glauconitic to the top of the Latrobe Group at 2711 feet.

The Lakes Entrance was separated from the Lower Oligocene - Upper Eocene Latrobe Group by an unconformity at 2711 feet. The Latrobe overlies the Strzelecki Group unconformably at 4589 feet. The Latrobe was composed of interbedded sand, coal, shale, silt and minor dolomite.

The sands were generally medium to very coarse grained, often pebbly, clean to moderately kaolinitic, loose, quartzose and porous. However, certain sands were clay choked with kaolin such as from 3265 to 3320 feet and from 3830 to 3870 feet. These coarse grained sands contained fine grained sand and clay as matrix and were much less porous. Major clastic intervals with dirty sands and common interbedded shale, silt and thin coals occurred from 3620 feet to 3780 feet and from 3870 feet to 4040 feet.

Coals were common in the Latrobe and thin coals occurred throughout the formation. The coals were dark brown to black, lignitic, soft to brittle and dirty to pyritic in part.

The principle thick coals occurred as listed below:-

2730 - 2780	3202 - 3228
2824 - 2856	3466 - 3486
3110 - 3126	3501 - 3519
3134 - 3166	3570 - 3608
3170 - 3182	3792 - 3818

Coals were less common below 4300 feet.

The shales were brown, carbonaceous, silty, sandy or lignitic in part. Shales occurred as dirty streaks in sands, as thin cyclic interbeds in the zones 3620 to 3780 feet and 3870 to 4040 feet and as thicker 5 to 20 foot beds either within or separating well developed sands and coals throughout the Latrobe. The thickest shales existed below 4040 feet. Shales were most common between 4180 and 4300 feet.

Siltstones were generally gradational between sand and shale and rarely well developed. Dolomites were rather rare, the best developed occurring at 3166 and 4300 feet.

The Cretaceous Strzelecki Group consisted of massive greywackes and sub greywackes with thin shales, dolomites and rare porous sandstones from 4589 feet to total depth at 6430 feet.

The greywackes and sub-greywackes were light grey to light grey-green, very fine to coarse grained, very clay choked, micaceous, very lithic, chloritic in part, tight, with local carbonaceous lamina, minor pyrite and occasional zones of calcareous cement. The shales were grey, grey-brown, brown and occasionally green, micaceous, carbonaceous, often silty to sandy, thinly laminated and rarely calcareous. The siltstones were gradational between the greywackes and shales. The best developed sands rarely developed much permeability and resembled the greywackes. The most permeable sands occurred at 5275, 5450, 5745, 6220-35, 6485 and 6360-6390 feet. Thin dolomites to 4 feet thick were fairly common. They were very dirty and sandy.

HYDROCARBON SHOWS

There were two petroleum targets in the Keystone well, the Latrobe Group and the Strzelecki Group. Neither proved to have commercial accumulations of hydrocarbons. Several minor show were encountered. Each show is listed below:

<u>Interval</u>	<u>Gas</u>	<u>Remarks</u>	<u>Formation</u>
1380-1550	5-50uCl	Minor gas, no stain.	Gippsland Limestone.
2780-2820	12uCl	Clean sand, no stain or flour.	Top Latrobe sand.
2960-2980	8uCl	Intbd. sand and shale, no stain.	Latrobe

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<u>Interval</u>	<u>Gas</u>	<u>Remarks</u>	<u>Formation</u>
4635-4675	11u C1	Greywacke, no stain	Top of Strzelecki
5620-5675	20u C1	Minor porosity, no stain	Strzelecki
5825	8u C1	Porosity streak, no stain	do
6220-6240	9u C1	Minor sand porosity, no stain	do
6285-6290	10u C1	Minor sand porosity, no stain	do

A graphic presentation of the gas readings is presented on the included Core Laboratories report.

TABLE 1

STRATIGRAPHY, KEYSTONE NO. 1, Halliday Enterprises Pty. Ltd.

AGE	FORMATION	LITHOLOGY	DEPTH(of tops)		THICKNESS
			Kelly Bushing	Ground Level	
L. Pliocene	Jemmy's Point	Sand with lignite, clay & coquina.	18	+97	+432
U. Miocene	Tambo River	Limestone with marl & coquina.	450	-335	95
Miocene	Gippsland Ls.	Limestone with marl near base.	545	-430	1573
Oligocene	Lakes Entrance	Marly shale	2118	-2003	593
L. Oligocene Eocene	Latrobe Group	Sand, coal, shale, silt	2711	-2596	1878
Cretaceous	Strzelecki Gp.	Greywacke, shale, minor sand.	4589	-4474	n. a.

APPENDIX

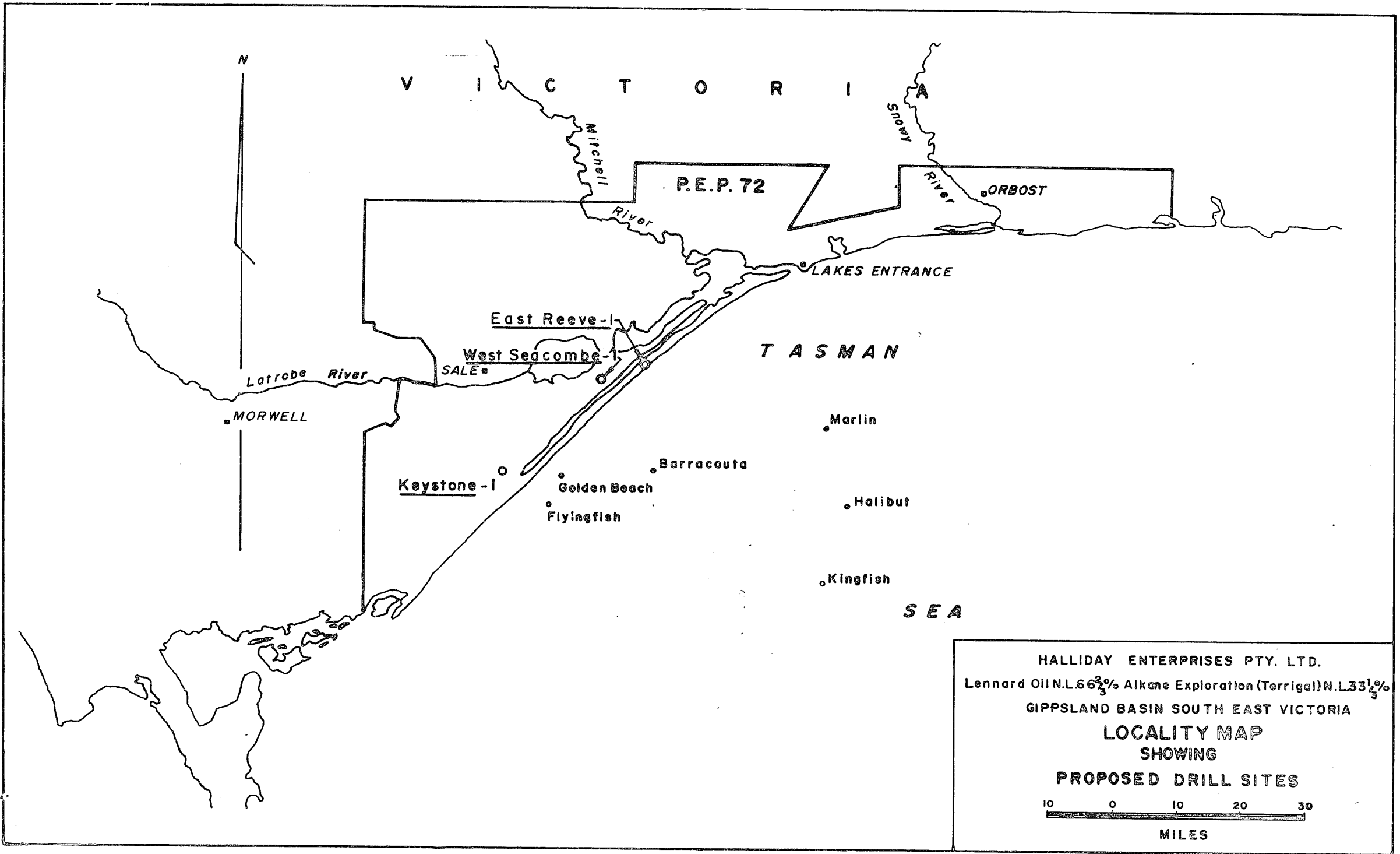
SIDEWALL CORE DESCRIPTION, KEYSTONE NO. 1

Depths were selected from FDC log; solvent cuts were with chlorothane.

<u>CORE NO.</u>	<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
1	6388'	1/2"	Greywacke: light grey, very fine grained, clay choked, micaceous, very lithic, carbonaceous lamina, no fluorescence, no odour, tight.
2	6335'	3/8"	Greywacke: light grey, tight, no show, as above.
3	6305'	3/8"	Greywacke: light grey-green, fine - medium grained, very clay choked, tight, no show.
4	6292'	5/8"	Greywacke: light grey, tight, no show, as above.
5	5795'	3/4"	Greywacke: light grey-green, fine - medium grained, very clay choked, chloritic and lithic grains, tight, no show.
6	5781'	7/8"	Greywacke: Light grey-green, fine - coarse grained, predominately medium grained, clay choked, tight, no show.
7	5775'	3/8"	Greywacke: light grey-green, fine - coarse grained, predominately medium - coarse grained, very calcareous, mineral fluorescence, tight, no show.
8	5761'	7/8"	Greywacke: light grey-green, silt - very fine grained, 10% porosity, faintly laminated, no show.
9	5493'	3/4"	Greywacke: light grey-green, fine - medium grained, clay choked, micaceous, lithic, low porosity, no show.
10	5491'	1"	Greywacke: as above, no show.
11	5413'	Empty	
12	5406'	1-1/8"	Greywacke: as above, no show.
13	5371'	2"	Mudstone: light grey-green, soft, waxy non calcareous, no show.
14	5359'	1-3/4"	Mudstone: as above, slightly silty and pyritic, no show.
15	4647'	Misfire	
16	4623'	1-7/8"	Greywacke: light grey, light grey-green silt - very fine grained, very clay choked, no visible porosity, mud impregnated along fracture, no show.
17	4595'	1-3/4"	Sandstone: silt - pebbly, very poorly sorted, abundant clay matrix, brown-grey argillaceous matrix, some mineral fluorescence, questionable diesel odour, no show.

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<u>CORE NO.</u>	<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
18	4393'	1-5/8"	Sandstone: light grey-brown, very fine grained - pebbly, soft, friable, quartzose, minor kaolinitic matrix, no fluorescence, very faint odour.
19	4385'	2-1/8"	Sandstone: white - light grey, fine - very coarse grained, very poorly sorted, angular - sub-rounded, white kaolin matrix, no show.
20	3889'	1-3/4"	Sandstone: grey-brown, very fine grained - pebbly, mud permeated, kaolin matrix, abundant carbonaceous flecks, soft, friable, no show.
21	3871'	Misfire	
22	3839'	2"	Sandstone: grey-brown, very fine grained - granular, abundant kaolin matrix, low porosity, no cut, no fluorescence.
23	3829'	2"	Sandstone: cream-light brown, fine grained - granular, rounded - angular, kaolin matrix, moderately low porosity, no fluorescence or cut, faint gassy odour.
24	3726'	2-1/8"	Sandstone: cream to grey-brown, very fine grained to granular, angular - rounded kaolinitic, no show.
25	3622'	1-3/4"	Sandstone: grey-brown, fine grained - granular, angular-rounded, poorly sorted, carbonaceous, brown kaolinitic matrix, low porosity, no show.
26	3395'	1-3/4"	Sandstone: light brown, silt-pebbly, angular-rounded, no matrix, very porous and friable, no show.
27	3125'	2"	Silty shale, grey-brown, waxy, soft, very carbonaceous to coaly, micaceous, no show.
28	2920'	2"	Sandstone: light grey, fine-coarse grained poorly sorted, angular-rounded, friable, soft, minor clay matrix, rare pyrite, no show.
29	2810'	1-3/4"	Sandstone: cream, fine grained - granular, sub angular - rounded, minor kaolin, soft, friable, minor carbonaceous grains, no show.
30	2804'	2"	Sandstone: light grey-brown, fine - granular, friable, soft, minor kaolin matrix, slightly carbonaceous, no show.



V I C T O R I A

P.E.P. 72

ORBOST

T A S M A N

S E A

HALLIDAY ENTERPRISES PTY. LTD.
Lennard Oil N.L.66²/₃% Alkane Exploration (Torrigan) N.L.33¹/₃%
GIPPSLAND BASIN SOUTH EAST VICTORIA
LOCALITY MAP
SHOWING
PROPOSED DRILL SITES
10 0 10 20 30
MILES

N

Mitchell
River

Snowy
Mountains
River

River

River

LAKES ENTRANCE

East Reeve-I

West Seacombe-I

SALE

Latrobe River

MORWELL

Keystone-I

Golden Beach

Flyingfish

Barracouta

Marlin

Halibut

Kingfish

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PE603373

This is an enclosure indicator page.
The enclosure PE603373 is enclosed within the
container PE906021 at this location in this
document.

The enclosure PE603373 has the following characteristics:

ITEM_BARCODE = PE603373
CONTAINER_BARCODE = PE906021
NAME = Well Completion Log
BASIN = GIPPSLAND
PERMIT = PEP 72
TYPE = WELL
SUBTYPE = COMPLETION_LOG
DESCRIPTION = Second copy of Well Completion Log
containing geology spontaneous
potential and resistivity. Copy of
PE603372 for Keystone-1
REMARKS =
DATE_CREATED = 19/02/1972
DATE_RECEIVED =
W_NO = W641
WELL_NAME = KEYSTONE-1
CONTRACTOR =
CLIENT_OP_CO = HALLIDAY ENTERPRISES PTY

(Inserted by DNRE - Vic Govt Mines Dept)

PE603376

This is an enclosure indicator page.
The enclosure PE603376 is enclosed within the
container PE906021 at this location in this
document.

The enclosure PE603376 has the following characteristics:

ITEM_BARCODE = PE603376
CONTAINER_BARCODE = PE906021
NAME = Formation Density Log
BASIN = GIPPSLAND
PERMIT = PEP 72
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = Compensated Formation Density Log in
second copy of WCR for Keystone-1
(W641). Copy of PE601450.
REMARKS =
DATE_CREATED = 18/02/1972
DATE_RECEIVED =
W_NO = W641
WELL_NAME = KEYSTONE-1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = HALLIDAY ENTERPRISES PTY

(Inserted by DNRE - Vic Govt Mines Dept)

PE603377

This is an enclosure indicator page.
The enclosure PE603377 is enclosed within the
container PE906021 at this location in this
document.

The enclosure PE603377 has the following characteristics:

ITEM_BARCODE = PE603377
CONTAINER_BARCODE = PE906021
NAME = Laterolog
BASIN = GIPPSLAND
PERMIT = PEP 72
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = Laterolog in second copy of WCR for
Keystone-1 (W641). Copy of PE601451.
REMARKS =
DATE_CREATED = 18/02/1972
DATE_RECEIVED = 02/01/1986
W_NO = W641
WELL_NAME = KEYSTONE-1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = HALLIDAY ENTERPRISES PTY

(Inserted by DNRE - Vic Govt Mines Dept)

PE905923

This is an enclosure indicator page.
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container PE906021 at this location in this
document.

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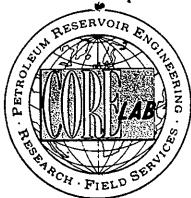
ITEM_BARCODE = PE905923
CONTAINER_BARCODE = PE906021
NAME = Structural Cross-Section
BASIN = GIPPSLAND BASIN
PERMIT = PEP/72
TYPE = WELL
SUBTYPE = CROSS_SECTION
DESCRIPTION = Structural Cross-Section (enclosure
from WCR) for Keystone-1
REMARKS = added by DNRE 16/07/99
DATE_CREATED = 31/07/71
DATE_RECEIVED =
W_NO = W641
WELL_NAME = KEYSTONE-1
CONTRACTOR = HALLIDAY ENTERPRISES PTY LTD
CLIENT_OP_CO = HALLIDAY ENTERPRISES PTY LTD

(Inserted by DNRE - Vic Govt Mines Dept)

QUALITY AND QUANTITY ANALYSIS
FOR
HALLIDAY ENTERPRISES PTY. LTD.

KEYSTONE NO. 1 WELL

WILDCAT
VICTORIA
BY
CORE LABORATORIES AUSTRALIA
(QLD) LTD.



Core Laboratories Australia (Qld.) Ltd.

BRISBANE, AUSTRALIA

28th February, 1972

HALLIDAY ENTERPRISES PTY. LTD.,
58 CUTLER ROAD,
CLONTARF, NEW SOUTH WALES. 2093

ATTENTION: MR. W. H. NIXON

SUBJECT: MUD AND CUTTINGS ANALYSIS
KEYSTONE NO. 1 WELL
VICTORIA

GENTLEMEN:

A CORE LABORATORIES AUSTRALIA combination drill cuttings and hydrocarbon detection unit was present at the site of the subject well during drilling operations from 100 feet to the total depth of 6430 feet.

Utilising standard equipment, the drilling fluid was monitored continuously from 100 feet to total depth of 6430, and the drill cuttings were checked at regular intervals for oil and gas content and lithology. The results of these operations are shown on the accompanying Grapholog.

HYDROCARBON SHOWS: There were no significant shows of oil or gas. At 2740 feet to 2980 feet a slight increase of Methane was recorded due to the coal measures. From 6200 feet to 6300 feet an increase of Methane was recorded, but no visible fluorescence or cut.

We sincerely appreciate this opportunity to have been of service, and trust the information furnished in this report and during drilling operations has assisted in the evaluation of the subject well.

Yours very truly,
CORE LABORATORIES AUSTRALIA (QLD) LTD.

GENE A. JACKMAN,
RESIDENT MANAGER.

Dist.
Addressee 11 copies.
ENCS.

PE603375

This is an enclosure indicator page.
The enclosure PE603375 is enclosed within the
container PE906021 at this location in this
document.

The enclosure PE603375 has the following characteristics:

ITEM_BARCODE = PE603375
CONTAINER_BARCODE = PE906021
NAME = Grapholog
BASIN = GIPPSLAND
PERMIT = PEP 72
TYPE = WELL
SUBTYPE = MUD_LOG
DESCRIPTION = Second copy of Grapholog containing
drilling rate hydrocarbon analysis and
geology. Enclosure to WCR of
Keystone-1. Copy of PE603374.
REMARKS =
DATE_CREATED = 17/02/1972
DATE_RECEIVED = 31/07/1986
W_NO = W641
WELL_NAME = KEYSTONE-1
CONTRACTOR = CORE LABORATORIES AUSTRALIA LTD
CLIENT_OP_CO = HALLIDAY ENTERPRISES PTY

(Inserted by DNRE - Vic Govt Mines Dept)