

**WARRANTY** Halliburton Energy Services, Inc. will use its best efforts to furnish customers with accurate information and interpretation of the data provided. However, Halliburton Energy Services, Inc. cannot and does not warrant the accuracy or correctness of such information and interpretations. Under no circumstances should any such information be relied upon as the sole basis for any drilling, completion, production, or financial decision or any production involving any risk to the safety of any drilling wellbore, drilling or its crew or any other third party. The Customer has full responsibility for any drilling, completion and production operation. Halliburton Energy Services, Inc. makes no representations or warranties, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for a particular purpose, with respect to the services rendered. In no event will Halliburton Energy Services, Inc. be liable for failure to obtain any particular results or for any damages, including but not limited to, indirect, special or consequential damages, resulting from the use of any information provided by Halliburton Energy Services, Inc.

**LEGEND**

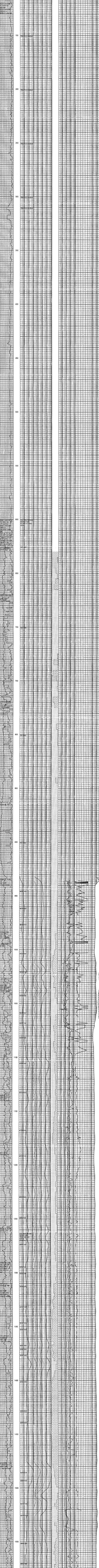
**Drilling Data**  
 BS Background Gas  
 BRT Bottomhole Temp  
 C Cartridge Test  
 CA Core Sample  
 CG Connection Gas  
 CH Check For Flow  
 CO Circulation Out  
 DC Direction Survey  
 DS Direction Survey  
 DST Drillstem Test  
 FLT Flowline Temp  
 LAT Loggas After Trip  
 NR No Returns  
 PR Polymer/Diamond  
 PRC Polymer/Diamond  
 RPT Rock Per Minute  
 RRS Return Rate  
 TR Trip Gas  
 U Gas Loss  
 WOB Weight on Bit

**Mud Data**  
 CI Chloride Conc  
 FC Filter Cake  
 FL Filtrate Loss  
 G Gels  
 pH  
 PV PVP  
 Resk Resk Viscosity

**Engineering Data**  
 Casing No.  
 DST No.  
 Gas Traces  
 Side Well Core  
 Gas Traces  
 Gas  
 Oil  
 Bitumen

**Lithology Symbols**  
 Sand  
 Sandstone  
 Silt  
 Siltstone  
 Clay  
 Claystone  
 Shale  
 Light  
 Coal  
 Limestone  
 Dolomite  
 Marl  
 Mudstone  
 Gumbo  
 Chalk  
 Chert  
 Halite  
 Anhydrite  
 Gypsum  
 Gravel

TOTAL GAS		RATIOS		RATIOS	
ppm	ppm	CH/C1	O/C	LHR	DWR
1	1	1	1	1	1



TOTAL GAS		RATIOS		RATIOS	
ppm	ppm	CH/C1	O/C	LHR	DWR
1	1	1	1	1	1

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**INSITE** **HALLIBURTON**

**DIRECTIONAL SURVEY REPORT**  
 Santos Ltd  
 Offshore Onway Basin  
 Murch1  
 Australia  
 AUJ-IN-0003287671

Measure Depth (meters)	Position (meters)	Direction (degrees)	W-Vec Depth (meters)	Latitude (meters)	Longitude (meters)	Vertical (meters)	Dogleg (degrees)
76.160	0.00	0.00	76.160	0.000 N	0.000 E	0.000	TIE-IN
76.160	0.08	0.08	76.160	0.078 N	0.002 E	0.002	0.02
76.160	0.16	0.16	76.160	0.156 N	0.004 E	0.004	0.04
76.160	0.24	0.24	76.160	0.234 N	0.008 E	0.008	0.08
76.160	0.32	0.32	76.160	0.312 N	0.016 E	0.016	0.16

Measure Depth (meters)	Position (meters)	Direction (degrees)	W-Vec Depth (meters)	Latitude (meters)	Longitude (meters)	Vertical (meters)	Dogleg (degrees)
972.680	0.05	166.11	972.680	0.706 E	0.276 W	11.645	0.14
972.680	0.10	166.22	972.680	1.412 E	0.552 W	23.290	0.28
972.680	0.20	166.44	972.680	2.824 E	1.104 W	46.580	0.56
972.680	0.40	166.88	972.680	5.648 E	2.208 W	93.160	1.12
972.680	0.80	167.76	972.680	11.296 E	4.416 W	186.320	2.24

Measure Depth (meters)	Position (meters)	Direction (degrees)	W-Vec Depth (meters)	Latitude (meters)	Longitude (meters)	Vertical (meters)	Dogleg (degrees)
1070.810	2.33	211.04	1070.810	6.236 E	0.277 W	6.435	0.38
1070.810	2.38	211.11	1070.810	6.273 E	0.283 W	6.497	0.39
1070.810	2.43	211.35	1070.810	6.270 E	0.283 W	6.495	0.38
1070.810	2.58	210.28	1070.810	6.368 E	0.272 W	6.491	0.34
1070.810	2.78	210.70	1070.810	10.536 E	0.544 W	10.418	0.74

Measure Depth (meters)	Position (meters)	Direction (degrees)	W-Vec Depth (meters)	Latitude (meters)	Longitude (meters)	Vertical (meters)	Dogleg (degrees)
1390.880	3.33	216.08	1390.880	18.608 E	0.478 W	20.060	0.20
1390.880	3.40	216.08	1390.880	18.608 E	0.478 W	20.060	0.20
1390.880	3.50	216.08	1390.880	18.608 E	0.478 W	20.060	0.20
1390.880	3.60	216.08	1390.880	18.608 E	0.478 W	20.060	0.20
1390.880	3.78	216.08	1390.880	18.608 E	0.478 W	20.060	0.20

Measure Depth (meters)	Position (meters)	Direction (degrees)	W-Vec Depth (meters)	Latitude (meters)	Longitude (meters)	Vertical (meters)	Dogleg (degrees)
1478.270	2.40	224.28	1478.270	5.400 E	0.188 W	18.487	0.10
1478.270	2.43	224.48	1478.270	5.424 E	0.188 W	18.487	0.10
1478.270	2.58	220.88	1478.270	5.424 E	0.188 W	18.487	0.10
1478.270	2.68	214.76	1478.270	33.744 E	0.376 W	30.862	0.39

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