

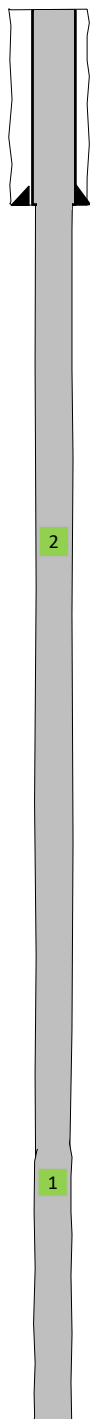
Moonshine 7

Latitude: -34.2407443833
Longitude: 150.675142890

Well spudded: 19/03/1982
Last activity: 08/05/1982

Ground Level: 233.0 m
K B elevation: 234.5 m

Ground Level



HW Casing Shoe
120.0m

TD: 585.97m

[illegible]

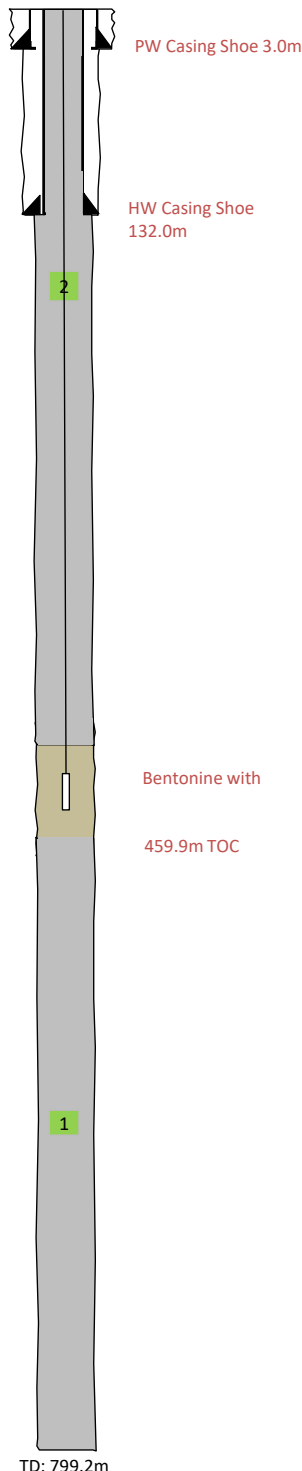
Moonshine 7A

Latitude: -34.240669319
Longitude: 150.675210067

Well spudded: 18/09/1982
Last activity: 16/11/1982

Ground Level: 233.6 m
K B elevation: m

Ground Level



ITEM No	DESCRIPTION	LTH (m)	DTH KB (m)	MIN I.D.	MAX O.D.

BRIEF HISTORY ON WELL

Well Construction Detail:

Moonshine 7A was drilled on the 16th of September, 1982, to a final TD of 799.22m. The well was drilled and cored by New Eureka Exploration Pty. Ltd. for Australian Gas Light Company and Australian Occidental Pty. Ltd. The well was drilled to further assess both the methane drainage potential of the major coal seams in the Sydney Sub-group of the Illawarra Coal Measures and the nature of existing geological and groundwater conditions for shaft sinking.

The well was open holed to the base of the Sydney Sub-group and water inflow tested to resolve anomalies arising from the results of the same type of testing in Moonshine 7. Moonshine 7A was then deepened by coring to assess the conventional petroleum potential of both the Cumbeland Sub-group of the Illawarra Coal Measures and the top of the Shoalhaven Group. PW (6") casing was run from 3.0m to surface and HW (5") casing was run from 132.0m to surface.

The well was P&A'd with two cement plugs over intervals of TD to 459.9m and 448.3m to surface. Before setting the second plug a gravel and bentonine screen was inserted with a Peizometer.

Well Inspection Detail:

The well was inspected on the 29th of May, 2015. Subsidence visible at cellar location but no evidence of well at surface. Inspection did not locate any remaining well infrastructure (including Piezo cable) at location

SURFACE	
CASING DETAILS	CEMENTING DETAILS:
Size: 6"	No data found on database
Weight: 14.6 lbs/ft	
Grade: unknown	
Depth Set (m): 3.0	

INTERMEDIATE	
CASING DETAILS	CEMENTING DETAILS:
Size: 5"	No data found on database
Weight: 11.4 lbs/ft	
Grade: unknown	
Depth Set (m): 132.0	

PRODUCTION	
CASING DETAILS	CEMENTING DETAILS:
Size:	
Weight:	
Grade:	
Depth Set (m):	

ABANDONMENT PLUGS		
Plug	Top (mMD)	Comment
1	459.9	Cemented over an interval of 799.2m (TD) - 459.9m
2	0.0	Cemented over an interval of 448.3m - Surface

FORMATION	FORMATION INTERVAL (mMDRT) (Perforations)	GUN:		CHARGES:		
		SIZE	TYPE	SPF	TYPE	WT(g)
Wombarra Formation	Surface - 457.1					
Bulli Coal	457.1 - 460.1					
Eckersley Formation	460.1 - 487.0					
Wongawilli Coal	487.0 - 501.8					
Kembla Sandstone	501.8 - 508.0					
Allens Creek Formation	508.0 - 522.9					
Darke Forest Sandstone	522.9 - 531.94					
Bargo Claystone	531.94 - 543.9					
Tongarra Coal	543.9 - 546.9					
Wilton Formation	546.9 - 575.5					
Erins Vale Formation	575.5 - TD					

PRESSURE						
TEMPERATURE						

TAGGED DEPTHS:	
ANNULUS FLUID:	
INDICATED STRING WEIGHT:	
CALCULATED STRING WEIGHT:	
LANDED WEIGHT:	
REMARKS:	

NOT TO SCALE	WELLSITE SUPERVISOR:	P. Rayment,
PROPOSED:	LAST WORKOVER	
COMPLETION:	DRAFTED BY: Nathan Wuttke	DATE: 18 January 2017
RE-COMPLETION:	REVISED BY:	DATE:
OTHER:	CHECKED BY: Jordan Bunning	DATE: 12 April 2017

Moonshine 7 Site ID: 571

Hole Name: Moonshine 7	Site ID: 571	Region: Picton - Wollongong
Database Coordinates	Adopted Field Inspection Coordinates (GDA94)	Amend Database Coordinates
Lat: -34.24071 , Long: 150.675139	Lat: -34.2407443833, Long: 150.67514289	No

Integrated Well Score:		7		Well Inspection Date 28 May 2015	
Score Key: 1 - Well found - immediate action required 2 - Well found - Further action required 3 - Well found - Further investigation required 4 - Well site found - Clean up potentially required 5- Well found - only work required is to remove surface casing below ground, little or no concern to land owner. Maybe within an area of potential urban or agricultural use conflict and/or is of low integrity concern		6 - Well found - Well in use by landowner, no work required 7 - Well site found - No work required, isolated well evidence may be still present but not of concern and/or current landowner not concerned 8 - No clear evidence of well site (i.e. site not located or P&A'd below ground and surface remediated)			
Original Desktop Integrity Score:	25.38	Original Desktop Environmental Score:	27.08	Original Desktop Rank:	D1

Licencee:	Australian Gas Light Company Ltd / OXY	Title Ref:	PEL(H)0255	Year:	1982
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Current Status:	P&Ad	Total Depth:	586.1
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Comments: Subsidence visible at cellar location. P&Ad below ground.

NORTH	EAST
	
SOUTH	WEST
	

Desktop Review Findings

Hole Name:	Moonshine 7	Year Drilled:	1982
Operator (at time of drilling):	Australian Gas Light Company Ltd / OXY	Did well encounter hydrocarbons?:	Yes
Did well ever produce hydrocarbons (includes production testing)?:	No	Casing depth specifications recorded?	Partially
Evidence of setting Isolation Cement Plugs?	Yes	Conductor Casing Size:	Unknown
Conductor Casing Depth:	Unknown	Surface Casing Size:	HW
Surface Casing Shoe Depth:	Unknown	Surface Casing Cement Top:	Unknown
Intermediate Casing Size:	Unknown	Intermediate Casing Shoe Depth:	Unknown
Production Casing Size:	Unknown	Production Casing Shoe Depth:	Unknown
Production Casing Cement Returns Observed?:	Unknown	Is there an open hole interval below last casing shoe:	Yes
Well Depth (MD):	586	Well Depth (TVD):	586
Rig Spud Date:		Well Abandoned Date:	5/8/1982
Well Summary:	Drilled and cored, fully cemented and abandoned but no evidence of tag & test. HC s encountered.		
Well Comments:	HC s encountered. Fully cemented on abandonment. Low risk well, does not need field inspection.		
P&A Adequate:	Yes		
In Gauge (Last Recorded Hole Status):	P&A d		
Dept (Last Recorded Hole Status):	P&A d		

Integrity Inspection Data

Was the inspector able to fully access the location and surrounds?	Y
Is there access to the site for a rig?	Y
Is access suitable for workover rig in current condition?:	N
What is the nature of any work required to prepare access (brief)?:	
400m access track required	
Are there any other constraints to rig access (brief)?	
No	
Is the well pad visible?	N
Is the location of the well centre visible?	Y
What term best describes what is at well centre? (e.g. casing stump/wellhead/suspension cap/cement plug/welded plate, etc.)	Subsidence visible in cellar location.
What is your assessment of the current well status?	P&Ad
What is the approximate depth of the uppermost installation at well centre relative to GL (m)?	GL

Legacy Well Inspection Card

Moonshine 7 Site ID: 571

Is there a barricade and/or fencing around the well?	N
Is there a cellar installed?	N
Is there an accessible wellhead and tree installed?	N
Where no wellhead is installed is there evidence of a suspension cap or device that could contain trapped pressure?	N
Is there existing surface equipment?	N
Is the well tied into a pipeline?	N

Environmental Inspection Data

Agriculture

Is there an impact to agricultural land use, or potential impact from agriculture? *Low*

Comments: *slight depressions not of particular hazard*

Ecology and Bushfire

Is there ecological disturbance evident that is likely to be related to the well? *No*

Comment:

Is the well in a location of potential bushfire risk? *No*

Comment:

Natural Hazard

Is the well in a location of potential risk of flooding or change in creek alignment? *No*

Comments:

Is the well at risk of land instability? *No*

Comments:

Surface Condition

Is there safety hazards present in the area related to the drilling activity? *No*

Comments:

Is there contamination present in the area likely to be related to the drilling activity? *No*

Comments:

Is the well at risk of erosion or is the drilling activity the source of erosion? *No*

Comments:

Is the well or drilling activity still visible from surrounding lands? *No*

Comments:

People

Is the land owner concerned about the well or its current status? *No*

Comments: *could not speak with owner*

Is the well located within 2km of an urban area? *No*

Comments:

Is the well within 500m of sensitive land use? *No*

Comments:

Is the well within 200m of a public area? *No*

Comments:

Land Use and Water

Is the well likely to be subject to land use change in the future (e.g. development occurring on surrounding lands)?
Yes

Comments: *near dombarton rail site*

Is the well located within 200m of a creek, river or dam? Yes

Comments: *dam to west*

Moonshine 7 Site ID: 571

Photos

Well Name	Comments	Photo
Moonshine 7	Well centre	
Moonshine 7		

Moonshine 7 Site ID: 571

Well Name	Comments	Photo
Moonshine 7		
Moonshine 7		

Moonshine 7 Site ID: 571

Well Name	Comments	Photo
Moonshine 7		

Moonshine 7A Site ID: 572

Hole Name: Moonshine 7A	Site ID: 572	Region: Picton - Wollongong
Database Coordinates	Adopted Field Inspection Coordinates (GDA94)	Amend Database Coordinates
Lat: -34.240636 , Long: 150.675205	Lat: -34.240669319, Long: 150.675210067	No

Integrated Well Score:		7		Well Inspection Date 28 May 2015	
Score Key: 1 - Well found - immediate action required 2 - Well found - Further action required 3 - Well found - Further investigation required 4 - Well site found - Clean up potentially required 5- Well found - only work required is to remove surface casing below ground, little or no concern to land owner. Maybe within an area of potential urban or agricultural use conflict and/or is of low integrity concern		6 - Well found - Well in use by landowner, no work required 7 - Well site found - No work required, isolated well evidence may be still present but not of concern and/or current landowner not concerned 8 - No clear evidence of well site (i.e. site not located or P&A'd below ground and surface remediated)			
Original Desktop Integrity Score:	64.46	Original Desktop Environmental Score:	27.08	Original Desktop Rank:	B2

Licencee:	Australian Gas Light Company Ltd / OXY	Title Ref:	PEL(H)0255	Year:	1982
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Current Status:	P&Ad	Total Depth:	799.22
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Comments: Subsidence visible at cellar location. P&Ad below ground.



Desktop Review Findings

Hole Name:	Moonshine 7A	Year Drilled:	1982
Operator (at time of drilling):	Australian Gas Light Company Ltd / OXY	Did well encounter hydrocarbons?:	Yes
Did well ever produce hydrocarbons (includes production testing)?:	Yes	Casing depth specifications recorded?	Partially
Evidence of setting Isolation Cement Plugs?	Yes	Conductor Casing Size:	PW
Conductor Casing Depth:	3	Surface Casing Size:	HW
Surface Casing Shoe Depth:	Unknown	Surface Casing Cement Top:	Unknown
Intermediate Casing Size:	NA	Intermediate Casing Shoe Depth:	
Production Casing Size:	NA	Production Casing Shoe Depth:	
Production Casing Cement Returns Observed?:		Is there an open hole interval below last casing shoe:	Yes
Well Depth (MD):	799.22	Well Depth (TVD):	799.22
Rig Spud Date:		Well Abandoned Date:	11/16/1982
Well Summary:	Complimentary to Moonshine 7. Further geotechnical and hydrogeological information requested, hence the conversion to a water monitoring bore.		
Well Comments:	Water monitoring bore - piezometer. Installation of piezo into Bulli seam seems adequate but leaves open channel of HC s to surface. Field inspection needed.		
P&A Adequate:	NA		
In Gauge (Last Recorded Hole Status):	Suspended		
Dept (Last Recorded Hole Status):	P&A d		

Integrity Inspection Data

Was the inspector able to fully access the location and surrounds?	Y
Is there access to the site for a rig?	Y
Is access suitable for workover rig in current condition?:	N
What is the nature of any work required to prepare access (brief)?:	
N/A	
Are there any other constraints to rig access (brief)?	
No	
Is the well pad visible?	N
Is the location of the well centre visible?	Y
What term best describes what is at well centre? (e.g. casing stump/wellhead/suspension cap/cement plug/welded plate, etc.)	Subsidence visible at cellar location.
What is your assessment of the current well status?	P&Ad
What is the approximate depth of the uppermost installation at well centre relative to GL (m)?	At GL

Legacy Well Inspection Card

Moonshine 7A Site ID: 572

Is there a barricade and/or fencing around the well?	N
Is there a cellar installed?	N
Is there an accessible wellhead and tree installed?	N
Where no wellhead is installed is there evidence of a suspension cap or device that could contain trapped pressure?	N
Is there existing surface equipment?	N
Is the well tied into a pipeline?	N

Environmental Inspection Data

Agriculture

Is there an impact to agricultural land use, or potential impact from agriculture? *Low*

Comments: *some subsided areas though not problematic*

Ecology and Bushfire

Is there ecological disturbance evident that is likely to be related to the well? *No*

Comment:

Is the well in a location of potential bushfire risk? *No*

Comment:

Natural Hazard

Is the well in a location of potential risk of flooding or change in creek alignment? *No*

Comments:

Is the well at risk of land instability? *No*

Comments:

Surface Condition

Is there safety hazards present in the area related to the drilling activity? *No*

Comments:

Is there contamination present in the area likely to be related to the drilling activity? *No*

Comments:

Is the well at risk of erosion or is the drilling activity the source of erosion? *No*

Comments:

Is the well or drilling activity still visible from surrounding lands? *No*

Comments:

People

Is the land owner concerned about the well or its current status? *No*

Comments: *could not speak with owner*

Is the well located within 2km of an urban area? *No*

Comments:

Is the well within 500m of sensitive land use? *No*

Comments:

Is the well within 200m of a public area? *No*

Comments:

Land Use and Water

Is the well likely to be subject to land use change in the future (e.g. development occurring on surrounding lands)?
Yes

Comments: *site of dombarton rail interchange*

Is the well located within 200m of a creek, river or dam? Yes

Comments: *dam to west*

Moonshine 7A Site ID: 572

Photos

Well Name	Comments	Photo
Moonshine 7A	Well centre	
Moonshine 7A		

Moonshine 7A Site ID: 572

Well Name	Comments	Photo
Moonshine 7A		
Moonshine 7A		

Moonshine 7A Site ID: 572

Well Name	Comments	Photo
Moonshine 7A		