



ATTACHMENT TO WCR
WELL SUMMARY INFO.
ANGLESEA-1

W 345

OTWAY BASIN

1	Folio No	2	Referred to	3	Date	4	Clearing Officer's Initials	1	Folio No	2	Referred to	3	Date	4	Clearing Officer's Initials
1922								ONSHORE							
South Australian Oil Wells															
Co. N.L.															

WELL SUMMARY ANGLESEA-1
(W345)

CONTENTS:

APPENDIX:

- (1) Well Card
- (2) Well Data
- (3) Lithology
- (4) Velocity Data
- (5) Hydrocarbon Gas Analysis
- (6) Palynological Analysis

APPENDIX 1:

PE903072

This is an enclosure indicator page.
The enclosure PE903072 is enclosed within the
container PE905677 at this location in this
document.

The enclosure PE903072 has the following characteristics:

ITEM_BARCODE = PE903072
CONTAINER_BARCODE = PE905677
NAME = Well Card
BASIN = Otway
PERMIT =
TYPE = WELL
SUBTYPE = REPORT
DESCRIPTION = Well Card (enclosure from Well Summary
Information Folder-attachment to WCR)
for Anglesea-1
REMARKS =
DATE_CREATED = 31/07/22
DATE_RECEIVED =
W_NO = W345
WELL_NAME = Anglesea-1
CONTRACTOR = Sth. Australia Oil Wells Co. N.L
CLIENT_OP_CO = Sth. Australia Oil Wells Co. N.L

(Inserted by DNRE - Vic Govt Mines Dept)



PE903072

WELL

ANGLESEA No.1

W345

TYPE

BASIN

Tenement Holder **Sth. Aust. Oil Wells Co. N.L.**

Map Used

Pb. Angahook. Sect. 13, near Anglesca River.

Anglesca / Mt. Mt.

Operator

Latitude

38° 24' 15" S

Tenement

Longitude

144° 11' 20" E.

Elevation

approx 5'

Total Depth

462'

Status

Dry & Abandoned.

Spud

June 1922

Completed

Abandoned

July 1922

Casing

STRATIGRAPHY

See Barragwanah, W. 1947, p 131-132

Clay yellow	0' - 39'
Mudstone, black, carbonaceous, pyritic	39' - 186'
Clay sandy	186' - 274'
Brown coal	274' - 282'
Sand with fragments of charcoal	282' - 294'
Clay, brown, with lignite	294' - 301'
Brown coal	301' - 312'
Clay	312' - 317'
Sand, grey, medium	317' - 319'
Clay, brown	319' - 324'
Sand, fine with a little clay	324' - 354'
Gravel	354' - 355'
Clay brown	355' - 390'
Sand fine	390' - 393'
Clay brown	393' - 399'
Sandy clay with lignite fragments	399' - 412'
Gravel coarse	412' - 413'
Clay sandy	413' - 416'
Sand with fossiliferous lignite	416' - 417'
Sandstone, black, hard	417' - 418'
Brown coal	418' - 429'
Clay, silty, pale brown	429' - 446'
Clay, white, with seams of lignite	446' - 455'
Sand, coarse, rounded, silica	455' - 462'

FORMATION TESTS

LOG SUMMARY AND INTERPRETATION

~~ELECTRIC LOG.~~

~~MILLO LOG.~~

~~CONTINUOUS DIAPHRAGM.~~

~~Last Reading First Reading~~

370'	4264.0'
370'	4264.0'
4800'	5000'
5750'	6200'
6602'	7886'

A. OIL WELLS. GN.L.
 ANGLESEA No. 1

CORES

No.	Interval	Rec.	No.	Interval	Rec.	No.	Interval	Rec.	No.	Interval	Rec.

CHEMICAL ANALYSES (Oil, water, gas.)

Oil Show when Bailing.

GENERAL (Conclusion, structure, plugging, etc.)

APPENDIX 2:

PALAEONTOLOGY: Foraminifera Det. by

Palynology Det. by

GROUNDWATER DATA: (T.D.S., screened intervals, S.L., Drawdown, Yield)

STRATIGRAPHY: Formation		Depth(m)	From	To	Comments
Keytesbury Group (CMT)	Newer Basalt	CXNV			
	Whalers Bluff Fm	CQWB			
	Moorabool Viaduct Sds.	CXMO			
	PortCambell Lst Fm	CMPA			
	Gellibrand Marl	CMSM			
	Clifton Fm.	COCL			
	Nirranda Group (CON)	Narrawaturk Marl	CONM		
	Mepunga Fm	CEME			
Wangerrrip Group (CPW)	Dilwyn Fm (Easter View)	CPDI			
	Older Volcanics	CEEV			
	Pember Mudstone	CPPM			
	Pebble Point Fm.	CPPP			
Sherbrook Group (MCS)	Paaratte Fm	MCPA			
	Timboon Sd (Skull Ck)	MCTS			
	Nullawaare Fm	MENB			
	Belfast Mudstone	MCEM			
	Flaxmans Fm	M CFL			
	Waarxsnds Fm	MCLW			
Otway Group (MCOZ)	Summeralla Fm	MCEU			
	Pretty Hill Sds (GALTWOOD BEACH)	MCPH			
	Palaeozoic mudstones	PSMV			

OTHER DATA: (Velocity survey, seismic line, gas/oil show, tests)

DATA SOURCE, REFERENCES, COMMENTS

SARAGAWA MATH

1947

PP 131-132

APPENDIX 3:

No. 8 Bore, Moutajup, Allotment 3B of Section C, Jennawarra Parish. Owner, O. B. Mibus.

Packed up some plant @ ready for removal to Anglesea, Victoria. 27/1/22

Covering work done to 14th June, 1922:

No. 8 bore -

Log: 0' - 16' .. clay, alluvial
 16' - 22' .. Clay and decomposed basalt.
 22' - 201' .. Basalt, very hard in parts
 201' @ 223' .. Clay, sandy, yellow.
 223' - 231' .. Sand and gravel
 231' - 262' .. Sandstone, calcareous concretions, tertiary shells.
 262' - 270' .. Conglomerate sand and gravel
 270' - 272' .. Clay, yellowish
 272' - 277' .. Clay, changing to shale or slate, yellow with blue inclusions, probably Ordovician in age.

Remarks: Water at 12', 38', 60', and on through the basalt. Oil films at 248'. Pulled all casing. Left in 25' of 6 $\frac{3}{8}$ " casing high at top for a water well.

SOUTH AUSTRALIAN OIL WELLS 7

Anglesea Bore:

Bore No. 1, Section 13, Parish Angahook, County Polworth, near Anglesea River.

Log: 0' - 39' .. Clay, yellow
 39' - 186' .. Mudstone, black, carbonaceous, pyritic
 186' - 274' .. Clay, sandy
 274' - 282' .. Brown coal
 282' @ - 294' .. Sand with fragments of charcoal
 294' - 301' .. Clay, brown with lignite
 301' - 312' .. Brown coal
 312' - 317' .. Clay
 317' - 319' .. Sand, grey, medium
 319' - 324' .. Clay, brown

324' - 354' .. Sand, fine with a little clay
 354' - 355' .. Gravel
 355' - 390' .. Clay, brown
 390' - 393' .. Sand, fine
 393' - 399' .. Clay, brown
 399' - 412' .. Sandy clay with lignite fragments
 412' - 413' .. Gravel, coarse
 413' - 416' .. Clay, very sandy
 416' - 417' .. Sand with fossil resin and lignite
 417' - 418' .. Sandstone ?, black and hard
 418' - 429' .. Brown coal
 429' - ~~446'~~ 446' .. Clay, pale brown, sandy
 446' - 455' .. Clay, white with seams of lignite
 455' - 462' .. Sand, coarse, silica, rounded

Report to 31st July, 1922:

At Moutajup cleared up the camp and moved casing, tools, etc., to Anglesea. Abandoned this district.

At Anglesea, Bore No. 1 cemented off for the third time and now allowing cement to set.

No. 2 Bore, located 46 chains west of No. 1, and 250' higher. Started 24/7/22.

Log: 0' - 18' .. Clay, yellow
 18' - 19' .. Conglomerate, hard, red
 19' - 40' .. Clay, sandy, yellow
 40' - 105' .. Clay, sandy, brown
 105' - 158' .. Mudstone, black carbonaceous with frequent shows of gas.

Remark: 8' Casing to 120'.

Bore No. 1 bore - tested for water. Shut off but found that the cement had not acted. Oil showed again when bailing. Temporarily abandoned this bore and removed casing.

No. 2 Log, Continued:

158' - 300' .. Black mudstone
 300' - 366' .. Clay, sandy, lighter colour
 366' - 439' .. Clay, brown. Beds of fossil shells.

439' - 446' .. Clay, more sandy, brown

446' - 472'. Clay, dark brown, sticky; more fossils.

Remark: Water at 215 feet, very little, contains Fe, Mg, Al, Na ~~as~~ as chlorides and sulphates.

On the 31st October, 1922, Company obtained a heavy ~~oil~~ plant of the Star type from the Goldfields Diamond Drilling Company, capable of going to 3,000 feet, and an Oregon derrick 42' high has been erected over No. 2 bore Anglesea and the plant installed. Cleaning out operations are now in progress, ~~oil~~ ^{much} clay having entered the hole 6 $\frac{3}{8}$ " casing has been lowered to the bottom and will be continued to below the deep water sand, where it will be cemented.

Nov. 30th Cleaned out hole to bottom & drilled to 553' in brown clay (oil films (some) showed well from 540' onwards) overleaf
Report to 31/12/22:

No 2 Anglesea surp above to 472
Log - 553' - 560' .. Clay, brown, sticky
560' - 568' .. Sand and clay
568' - 580' .. Clay, dark brown, oily films
580' - 582' .. Coal, brown, impure
582' - 604' .. Clay, brown with oily films
604' - 612' .. Clay, brown ~~oil~~ more sandy, lighter color
612' - 636' .. Sand, fine packed hard, very little water

NOTE: No. 2 bore was deepened to 636'. Two trials to cut off water and sand were made. In each case another sand was discovered on going deeper, and the casing had to be loosened and lowered. 6 $\frac{3}{8}$ " casing inserted to 584' shutting off top water. see p134

Lane Lease, Section 10, Angahook Parish.

Two hand bores were sunk on this lease during the month of December, 1922, the results being used in the construction of a structure contour map. Further work is in progress. These bores are only shallow ones, the deepest being 106 feet, and were being sunk to the black mudstone to determine the contour of the surface.

3M
Month ending November 3rd, 1922:

No. 2 Bore, Noble Lease, Anglesea, Victoria - Cleaned out the hole to bottom. Have drilled to 553 feet, brown clay, fossiliferous.

Remark: Trouble arose with casing, so a pump was installed and ~~2222~~ mud forced around the casing to prevent the walls from caving. Oil films (crude) showed well from 540 feet onwards. Gas bubbled through water in hole at times. Very little water making.

31st January, 1923:

No. 2 Bore, Noble Lease - see p 133

Log, Contd. 636' - 641' .. Sand, fine, grey, hard, absorbs water
641' - 648' .. Clay, hard, brown
648' - 722' .. Clay, brown, sandy with pyritic lumps.
Dark oil films
722' - 726' .. Clay, dark, fissile
726' - 730' .. Sand, coarse, with ~~2222~~ clay streaks
730' - 736' .. Clay, dark grey with sand streaks and lignite lumps
736' - 741' .. Clay or brown coal, probably the latter
741' - 742' .. Clay, whitish and ~~2222~~ talcose with seams of lignite.

Remarks: We put in 5" casing and worked it to 320 feet, when it "froze". In trying to loosen same by means of hydraulic jacks, we tore it apart at 300 feet. We then fished out the broken piece with a tap and screwed it together again. After pumping in water under heavy pressure, we broke through obstruction behind the casing and freed the latter. We have now withdrawn 5" pipe and intend to try to loosen the 6 $\frac{3}{8}$ " and carry it down to 740' into the clay in order to shut off the upper waters.

NOTE: Five hand bores on adjoining leases were sunk to determine the structure of the black clay or mudstone underlying the surface deposits. No more will be sunk at present. All are shallow. No further particulars were given.

28th January, 1923: During month loosened 6 $\frac{3}{8}$ " casing after a lot of trouble. The hole was then reamed out and the casing carried down to 638', where it became fast. In spite of the fact that we could get a good return ~~100~~ of the circulating water, we could not loosen

^
jacks

the pipe even with hydraulic taps. We then put in clay, mixed it to a mud, and forced the same behind the casing with a pump until the casing 'stalled.' More mud was drilled into the formations below the 6 $\frac{3}{8}$ " casing and 5" pipe was put in. This was carried to 720', using thick mud to keep the walls of the hole up. The hole was cleaned out to 724', the previous bottom. Drilling is proceeding using the circulating system when necessary.

Report for week ending 31st May, 1923:

During May no work was done at Anglesea, but the crew returned there on the 31st and recommenced. The "idea is to loosen the 6 $\frac{3}{8}$ " casing frozen at 638 feet, carry it to the sandstone at 753', and shut off the water; Then put back the 5" casing ~~@@@~~ in order to go deeper." Testing out some sand which showed oil on boring operations.

(m p 151)

S.A.O.W. Anglesea

To follow Anglesea Bore: (N^o 32) (p135)

Casing 8", 46', shut off top water, salty.

Casing 6", 276', shut off water.

Casing 5", 408⁰', cemented off water. Water sands 24',
salt.

At 186' and onwards, salt.

282', 319', 354', 390', each with better supplies.

462' almost fresh water rising to near the surface.

~~0000000000~~

O I K: Films show at 312', 324', 365', 390', 399' but the best showing is from 400' to 417'. The 416' sand is probably oil bearing if it can be isolated from the water. It is important.

G A S: No concentration. Plentiful bubbles in water from 74' to 354'! Never enough to sample. This bore has twice been cemented.

Work will begin again on 2nd June. 1923.

APPENDIX 4:

APPENDIX 5:

APPENDIX 6:

SA Oil Wells Co. N.L., Anglica No. 1
 Ph. Angahook, Sec. 13, n. Anglica River
 Lat. 38°24'15" Long. 144°11'20"

(Bangwanath, W.
 1947, p. 131-132)

Sf'u lwd ca 5'

BB
 EV

?

0	39	clay, yellow	
39		mudstone, black, carbonaceous, pyritic	
186		clay, sandy	
274		brown coal	8'
282		sd, w. charcoal fragments	
294		clay, brown, w. lignite	
301		brown coal	9'
312		clay	
317		sd, gray, medium	
319		clay, brown	
324		sd, fine, w. a little clay	
354		gravel	
355		clay, brown	
390		sd, fine	
393		clay, brown	
399		sandy clay w. lignite fragments	
412		gravel, coarse	
413		clay, sandy	
416		sd, w. fossil resin & lignite	
417		ss, black, hard	
418		brown coal	11'
429		clay, sandy, pale brown	
446		clay, white, w. lignite team,	
455		sd, coarse, rounded, silica	
462			