



BASIC WELL COMPLETION REPORT

NT EP-168 – Tarlee-2

Prepared For: NT Department of Mines & Energy
Date: February 2016
Revision No: A



PANGAEA

BASIC WELL COMPLETION REPORT

**EP-168
TARLEE-2**

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File Path and Name:	N:\EXPL\AUSTRALIA\TENEMENTS\NT\Oil_Gas\Regional_EP167 168 169 198\EP_168\4_Wells\Tarlee-2\11_Post Operations Reports\WCR\Basic Well Completion Report\160216_EP168_Tarlee-2 - Basic_WCR_(Rev A).docx		
Operator:	Pangaea (NT) Pty Ltd	Representative:	Joel Alnes
Title:	Basic Well Completion Report_EP-168_Tarlee-2		

REVISIONS

Revision A		Initial Document	G&G and Engineering	G&G/Ops.
Rev	Date	Reason For Revision	Author	Initial

THIS REVISION

Geology By:		Engineering By:	
Name	Initial/Date	Name	Initial/Date
D Levy	DL	CGC/SM	
Approved For Submission By:	Joel Alnes		

APPROVALS

Name	Position	Signature	Date
Dan Levy	Operations Geology		17-02-16
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1 WELL CARD (DATA SUMMARY SHEET)

GENERAL WELL INFORMATION	
Well Name and Number:	Tarlee-2
Designation:	Petroleum Appraisal Well
Permit:	EP-168 (Northern Territory)
Basin:	McArthur/Beetaloo
Operator and Titleholder:	Pangaea (NT) Pty Ltd (82.5%) EMG Northern Territory Pty Ltd (17.5%)
Graticular Block No:	[3321] (5 minute blocks)
Surveyed Location: (MGA94, Zone 53)	Latitude 15° 53' 24.6387"S (GDA94) Longitude 132° 41' 00.4484"E (GDA94) Easting 251,956.75mE (MGA94,Z53) Northing 8,241,839.08mN (MGA94,Z53)
Pastoral Lease Holder:	Gregory John Saunders "Tarlee" Tarlee Station, Western Creek Road Larrimah, NT
Property Description:	Parcel 3048 "Tarlee Station"
Seismic Reference:	Top Hole: Hidden Valley 2013 2D, Line PB13-07, SP 3550
Offset Reference Well: (Penetrating Target)	Tarlee-S3 (2014), TD 1650.6 mRT (33 km NNE)
Surveyed Elevation:	207.77 mAMSL
Total Vertical Depth (TVD):	1180.0 mTVD
Spud Date:	30-Jul-2015
Reach TD Date:	12-Aug-2015
Rig Release Date:	18-Aug-2015
Well Status/Result:	Plugged and abandoned/Hydrocarbon Shows
OPERATOR AND DRILLING CONTRACTOR	
Operator:	Pangaea (NT) Pty Ltd
Operator Postal Address:	Locked Bag 1, 1 Farrer Place Sydney, NSW, 2000
Drilling Contractor:	DDH1 Drilling
Rig Name and Type:	Rig-33 (WEI-DS75)
Height of RT above GL:	4.02 m
RT Elevation:	211.79 mAMSL



FINAL WELL CONSTRUCTION									
Interval	Hole Specifications			Casing Specifications					
	Hole Size	From	To	OD	Weight	Grade	Thread	Casing Top	Shoe Depth
	[in]	[mRT]	[mRT]	[in]	[lb/ft]			[mRT]	[mRT]
Conductor	17-1/2	5.6	28.0	13-3/8	68.0	K-55	BTC	5.6	28.0
Surface	12-1/4	28.0	133.22	9-5/8	36.0	K-55	BTC	5.1	129.68
Intermediate	8.719	133.22	549.48	7	23.0	K-55 / N-80	BTC	4.3	546.48
Production	6-1/8	549.48	1180.0	Open Hole (Cement Plugged)					

DRILLING MEDIUM				
Interval	Hole Size	From	To	Fluid System
	[in]	[mRT]	[mRT]	
Conductor	17-1/2	5.6	28	Water
Surface	12-1/4	28.0	133.22	Dry Air, Mist & Stiff Foam
Intermediate	8.719	133.22	549.48	Dry Air, Mist, Stiff Foam and WBM – KCl / Polymer
Production	6-1/8	549.48	1180.0	WBM – KCl & Polymer

LOGS FOR 8.719" OPEN HOLE SECTION	
Logging Run	Service
Run #1	Gamma Ray (GR) Spontaneous Potential (SP) Laterologs, Micro-resistivity Photo electric / Density / Caliper (Pe-Den-Cal) Neutron Sonic Maximum temperature
LOGS FOR 6-1/8" OPEN HOLE SECTION	
Logging Run	Service
Run #2	Gamma Ray (GR) & Spectral Gamma Ray (HNCS) Spontaneous Potential (SP) Laterologs, Micro-resistivity Photo electric / Density / Caliper (Pe-Den-Cal) Neutron & Pulse Neutron (APS) Maximum temperature
Run #3	Deviation Survey Resistivity Imager (FMI) Dipole Sonic (SonicScanner)
Run #4	Nuclear Magnetic Resonance (CMR) Spectral Lithology (LithoScanner)
Run #5 - #7	MSCT
Run #8	Checkshot Survey



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FORMATION TOPS						
Formation	Predicted Depth	Depth	Depth	Depth	Depth	Thickness
	(mRT)	(mRT)	(mGL)	(mTVD)	(mSS)	(m)
Surficial Sediments	-	No Samples taken during drilling of conductor hole				
Undifferentiated Cretaceous	-					
Montijinni Limestone	-	41.76	37.74	41.76	-166.01	38.1
Antrim Plateau Volcanics	84.00	79.86	75.84	79.86	-127.91	153.3
Base Cambrian Unconformity	312.00	233.16	229.14	233.16	25.39	-
Hayfield Mudstone	-	233.16	229.14	233.16	25.39	94.13
Jamison Sandstone	-	327.29	323.27	327.29	119.52	102.76
McMinn Formation	312.00	430.05	426.03	430.05	222.28	139.46
Kyalla Shale	583.00	569.51	565.49	569.51	361.74	94.9
Upper Velkerri Shale	714.00	664.41	660.39	664.41	456.64	203
Middle Velkerri	844.00	867.41	863.39	867.41	659.64	217.32
Lower Velkerri	1160.00	1084.73	1080.71	1084.73	876.96	95.27
TD	1210.00	1180.00	1175.98	1180.00	972.23	-



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2 WELL SCHEMATIC

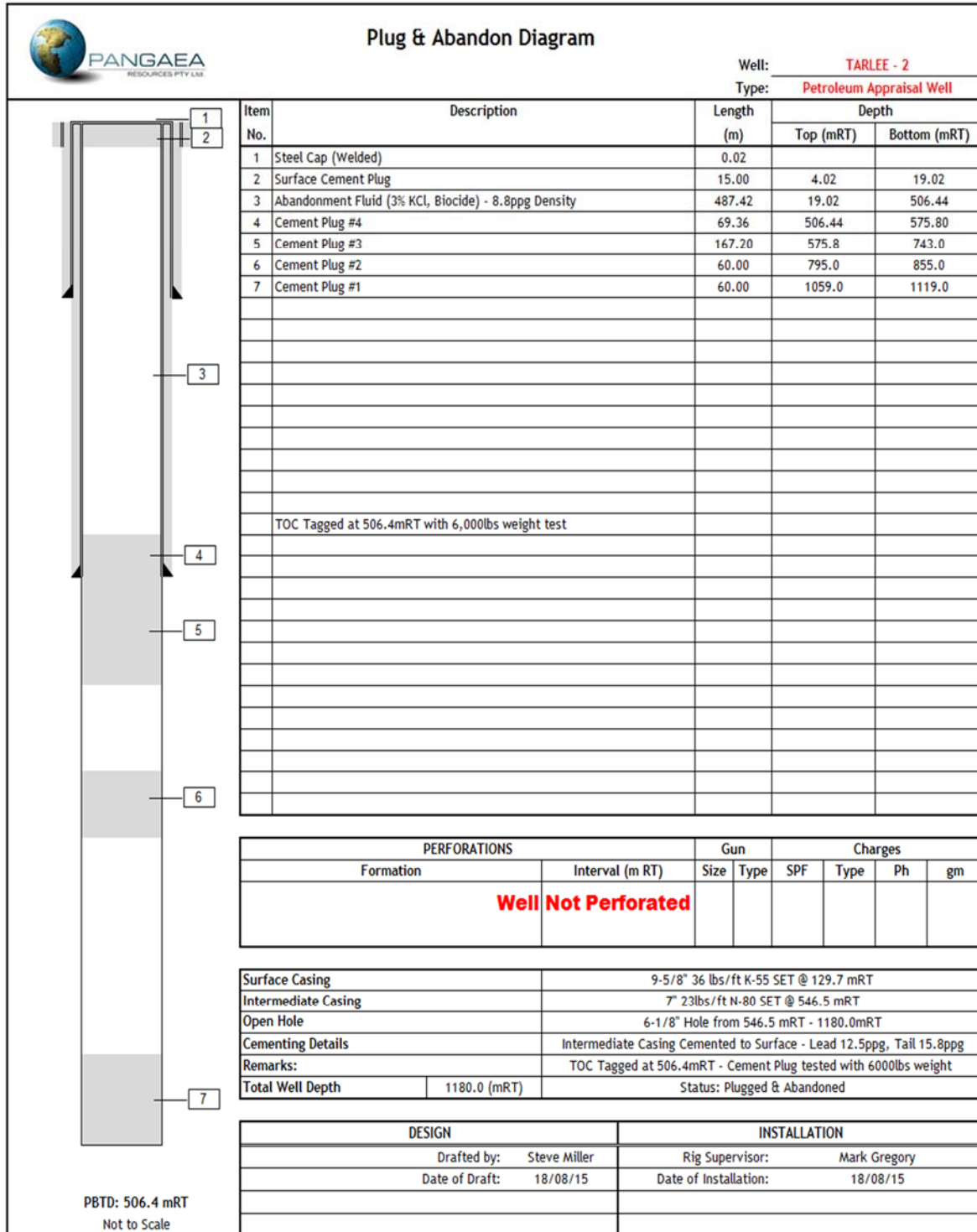


Figure 1. Final Tarlee 2 Well Diagram

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3 CEMENTING

3.1 Surface Casing Cement


The 12-1/4" surface hole was drilled to 133.22 mRT and 9-5/8" casing was run to 129.68mRT. The casing was cemented by pumping 47.5bbl slurry of 15.8ppg Class G cement w/ 1% BWOC Calcium Chloride additives and displaced with 30.4bbl water. Bump plug; held 2005psi for 5 min. No cement returns were seen at surface. A top up cement job was performed by pumping 13bbl slurry of 15.3ppg Class G cement.

Surface Casing Cement	
Parameters	
Casing Section:	Surface
Hole Details	12-1/4"
Casing Details:	9-5/8" 36 lb/ft K-55 BTC
Casing Shoe Depth:	129.68 mRT
Cement Type/Additives:	Class G / 1% BWOC Calcium Chloride
Cement Weight:	15.8 ppg
Cement Excess Pumped:	100%
Top of Cement Depth:	Top-up cement job at surface.
Bump Plug:	580psi, Pressure Casing up to 2005psi/5min-OK

3.2 Intermediate Casing Cement

The 8.719" intermediate hole was drilled to 549.48mRT and 7" casing was run to 546.48mRT. A 22.2bbl spacer was pumped followed by pumping 41.3bbl of 12.5ppg Lead slurry and 18.2bbl 15.8ppg Tail slurry. The plug was dropped and cement displaced with 70.8bbl of fluid. Bump plug; held 1550psi for 15 min. Cement returns were seen at surface.

Intermediate Casing Cement	
Parameters	
Casing Section:	Intermediate
Hole Details:	8.719"
Casing Details:	7" 23 lb/ft N-80 BTC
Casing Shoe Depth:	546.48 mRT
Cement Type:	Class G
Cement Weight:	Lead: 12.5 ppg, Tail: 15.8ppg
Cement Excess Pumped:	Lead: 10%, Tail: 10%
Top of Cement Depth:	Lead: Surface, Tail: 400m
Bump Plug:	550psi, Pressure casing up to 1550psi/15min -OK

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3.3 Cement Plug P&A

Cementing Stages					
N°	Bottom	Top	Length	Density	Cement Type
	[mRT]	[mRT]	[m]	ppg	Class
1	1119.0	1059.0	60.0	15.8	G
2	855.0	795.0	60.0	15.8	G
3	743.0	575.8	167.2	15.8	G
4	575.8	506.44*	69.36	15.8	G
506.44 – 19.02mRT (Abandonment Fluid)				8.8	N/A
5	19.02	4.02	15.0	15.8	G

*Top of cement tagged at 506.44mRT with a 6,000lb weight test

Drilling operations and log data interpretations indicate that all the formations in the production hole (Kyalla Shale, Upper Velkerri, Middle Velkerri, and Lower Velkerri) have very low permeability, therefore no lost circulation intervals were identified. The hydrocarbon bearing formations are the Kyalla Shale and Middle Velkerri, which have completely been isolated by setting cement plugs across their tops and bases depths.

4 SIDEWALL CORES AND SAMPLING

The sampling program for Tarlee-2 comprised the following:

- Sidewall coring
- Cuttings collection
- Isotube sampling

Please see **Appendix 1** for details of sidewall cores and samples taken.

5 EVALUATION LOGS

Please see **Enclosure 1** for digital wireline log data.

Please see **Enclosure 2** for graphical mud log.

No measurement, logging or pressure while drilling logs were performed in Tarlee-2.

6 WELL TESTING

N/A

7 CORE PHOTOGRAPHY

N/A

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8 WELL TRAJECTORY

Please see **Appendix 2** for deviation survey results.

9 BIT RECORD

Please see **Appendix 3** for bit record.

10 MUD RECORD

Please see **Appendix 4** for mud record.



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APPENDIX 1. SIDEWALL CORES / SAMPLES DETAILS

SIDEWALL CORE DETAILS

Tarlee-2 Sidewall Cores					
MSCT Run	No	Depth (mRT)	Formation	Remarks	Recovered
5 (MSCT-1)	1	585.0	Kyalla Shale		Yes
	2	587.0	Kyalla Shale		Yes
	3	597.0	Kyalla Shale		Yes
	4	602.0	Kyalla Shale		Yes
	5	607.0	Kyalla Shale		Yes
	6	610.0	Kyalla Shale		Yes
	7	612.0	Kyalla Shale		Yes
	8	617.0	Kyalla Shale		Yes
	9	622.0	Kyalla Shale		Yes
	10	627.0	Kyalla Shale		Yes
	11	591.5	Kyalla Shale	Off depth	Yes
	12	608.5	Kyalla Shale	Off depth	Yes
	13	618.5	Kyalla Shale	Off depth	Yes
	14	623.5	Kyalla Shale	Off depth	Yes
	15	633.5	Kyalla Shale		Yes
	16	638.5	Kyalla Shale	Off depth	Yes
	17	639.5	Kyalla Shale		Yes
	18	643.5	Kyalla Shale		Yes
	19	648.5	Kyalla Shale		Yes
	20	648.5	Kyalla Shale		Yes
	21	653.5	Kyalla Shale		Yes
	22	655.5	Kyalla Shale	Off depth	Yes
	23	658.5	Kyalla Shale	Off depth	Yes
	24	773.5	U. Velkerri		Yes
	25	818.5	U. Velkerri	Off depth	Yes
	26	819.0	U. Velkerri	Off depth	Yes
	27	826.5	U. Velkerri		Yes
	28	831.5	U. Velkerri		Yes
	29	836.5	U. Velkerri		Yes
	30	842.0	U. Velkerri	Off depth	Yes
	31	843.0	U. Velkerri		Yes
	32	843.5	U. Velkerri	Off depth	Yes
	33	1055.8	M. Velkerri	Desorption	Yes
	34	1056.0	M. Velkerri	Desorption	Yes
	35	1056.2	M. Velkerri	Desorption	Yes
6 (MSCT-2)	36	840.0	U. Velkerri		Yes
	37	844.0	M. Velkerri		Yes
	38	846.0	M. Velkerri		Yes
	39	849.0	M. Velkerri		Yes
	40	924.0	M. Velkerri		Yes
	41	954.5	M. Velkerri		Yes
	42	969.0	M. Velkerri		Yes
	43	976.0	M. Velkerri		Yes
	44	980.0	M. Velkerri		Yes
	45	1010.0	M. Velkerri		Yes
	46	1019.0	M. Velkerri		Yes
	47	1020.0	M. Velkerri		Yes
	48	1021.0	M. Velkerri		Yes
	49	1023.0	M. Velkerri		Yes
	50	1025.0	M. Velkerri		Yes
	51	1027.0	M. Velkerri		Yes
	52	1029.0	M. Velkerri		Yes
	53	1031.0	M. Velkerri		Yes



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	54	1033.0	M. Velkerri		Yes
	55	1035.0	M. Velkerri		Yes
	56	1037.0	M. Velkerri		Yes
	57	1039.0	M. Velkerri		Yes
	58	1041.0	M. Velkerri		Yes
	59	1042.0	M. Velkerri		Yes
	60	1043.0	M. Velkerri		Yes
	61	1045.0	M. Velkerri		Yes
	62	812.0	U. Velkerri	Retake Run#5 (MSCT-1)	Yes
	63	812.5	U. Velkerri	Retake Run#5 (MSCT-1)	Yes
	64	820.0	U. Velkerri	Retake Run#5 (MSCT-1)	Yes
	65	835.5	U. Velkerri	Retake Run#5 (MSCT-1)	Yes
	66	1049.3	M. Velkerri	Desorption	Yes
	67	1049.5	M. Velkerri	Desorption	Yes
	68	1049.7	M. Velkerri	Desorption	Yes
	69	632.0	Kyalla Shale	Retake Run#5 (MSCT-1)	Yes
	70	637.0	Kyalla Shale	Retake Run#5 (MSCT-1)	Yes
	71	642.0	Kyalla Shale	Retake Run#5 (MSCT-1)	Yes
	72	647.0	Kyalla Shale	Retake Run#5 (MSCT-1)	Yes
	73	837.0	U. Velkerri	Retake Run#5 (MSCT-1)	Yes
	74	1047.0	M. Velkerri		Yes
	75	1049.0	M. Velkerri		Yes
	76	1051.0	M. Velkerri		Yes
	77	1053.0	M. Velkerri		Yes
	78	1055.0	M. Velkerri		Yes
	79	1057.0	M. Velkerri		Yes
	80	1058.0	M. Velkerri		Yes
	81	1059.0	M. Velkerri		Yes
	82	1061.0	M. Velkerri		Yes
	83	1063.0	M. Velkerri		Yes
	84	1065.0	M. Velkerri		Yes
	85	1067.0	M. Velkerri		Yes
	86	1068.0	M. Velkerri		Yes
	87	1069.0	M. Velkerri		Yes
	88	1071.0	M. Velkerri		Yes
	89	1073.0	M. Velkerri		Yes
	90	1075.0	M. Velkerri		Yes
	91	1077.0	M. Velkerri		Yes
	92	1079.0	M. Velkerri		Yes
	93	1081.0	M. Velkerri		Yes
	94	1082.0	M. Velkerri		Yes
	95	1083.0	M. Velkerri		Yes
	96	1085.0	M. Velkerri		Yes
	97	1117.0	M. Velkerri		Yes
	98	1149.0	M. Velkerri		Yes
	99	1028.5	M. Velkerri	Desorption	Yes
	100	1028.7	M. Velkerri	Desorption	Yes
	101	1028.9	M. Velkerri	Desorption	Yes

*NOTE: Because of incorrect correlation pass in run # 5 (MSCT-1), off depth cores from the planned MSCT were taken. Depths of off depth cores listed above have been corrected. Missing cores were collected in the subsequent MSCT runs.

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CUTTINGS SAMPLE DETAILS

Washed and Dried Cuttings for Pangaea (Set A) and NTGS (Set B)			
Box Number	Type	Depth (mRT)	Remarks
1	Cloth Bag	5.62 – 133.22	Sample collected at every connection
2	Cloth Bag	133.22 – 269.00	Sample collected at every connection
3	Cloth Bag	269.00 – 409.00	Sample collected at every connection
4	Cloth Bag	409.00 – 549.48	Sample collected at every connection
5	Cloth Bag	549.48 – 700.00	10m intervals (Set A)
6	Cloth Bag	700.00 – 860.00	10m intervals (Set A)
7	Cloth Bag	860.00 – 1020.00	10m intervals (Set A)
8	Cloth Bag	1020.00 – 1180.00	10m intervals (Set A)
9	Cloth Bag	549.48 – 700.00	10m intervals (Set B)
10	Cloth Bag	700.00 – 860.00	10m intervals (Set B)
11	Cloth Bag	860.00 – 1020.00	10m intervals (Set B)
12	Cloth Bag	1020.00 – 1180.00	10m intervals (Set B)

Washed and Dried Cuttings Set C (for Pangaea Records)			
Box Number	Type	Depth (mRT)	Remarks
1	Samplex Tray	5.62 – 1180	Mixed Intervals 26 Trays (126 Samples)

ISOTUBE SAMPLE DETAILS


Tarlee-2 Isotube Samples			
Sample Number	Depth (mMDRT)	Total Gas Unit	Date & Time
TL-2 GS-1	558	558	09 Aug 2015 / 16:59
TL-2 GS-2	575	575	09 Aug 2015 / 18:16
TL-2 GS-3	593	593	09 Aug 2015 / 19:30
TL-2 GS-4	596	596	09 Aug 2015 / 21:05
TL-2 GS-5	623	623	09 Aug 2015 / 21:10
TL-2 GS-6	816	816	10 Aug 2015 / 17:21
TL-2 GS-7	835	835	10 Aug 2015 / 18:52
TL-2 GS-8	865	865	11 Aug 2015 / 01:00
TL-2 GS-9	895	895	11 Aug 2015 / 03:45
TL-2 GS-10	925	925	11 Aug 2015 / 06:40
TL-2 GS-11	955	955	11 Aug 2015 / 09:06
TL-2 GS-12	971	971	11 Aug 2015 / 13:03
TL-2 GS-13	1019	1019	12 Aug 2015 / 00:01
TL-2 GS-14	1035	1035	12 Aug 2015 / 01:17
TL-2 GS-15	1035	1035	12 Aug 2015 / 01:18
TL-2 GS-16	1047	1047	12 Aug 2015 / 02:00
TL-2 GS-17	1061	1061	12 Aug 2015 / 03:26
TL-2 GS-18	1061	1061	12 Aug 2015 / 03:27

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APPENDIX 2. DEVIATION SURVEY

Tarlee-2 Deviation Survey Results			
Depth	Date/Time	Deviation	Azimuth
[mRT]		[deg]	[deg]
151.0	05-Aug-15 - 03:30	0.2	289.3
344.0	05-Aug-15 - 23:00	0.0	45.0
539.0	07-Aug-15 - 02:30	0.2	355.2
758.5	10-Aug-15 - 10:30	0.8	209.6
949.0	11-Aug-15 - 11:00	3.3	164.6
1158.4	12-Aug-15 - 13:45	5.7	168.0

A Wireline Logging Deviation Survey using the Schlumberger's General Purpose Inclinerometry Tool (GPIT) was performed. Data can be found in **Enclosure 1**. From this survey at the Wireline Total Depth (TD) of 1180.74 m (MD) and 1178.64 m (TVD) the Axial Coordinates (N/-S, E/-W) are (-11.18, -29.95) from the target origin at (0, 0).

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APPENDIX 3. BIT RECORD

Bit Information													
Bit Number:		1			2			3			4		
Size:	[in]	17.500			12.250			8.720			6.125		
Make:		Carbide			Halco			Halco			Tercel		
Type:		Mill Tooth			Mach 132			Mach 132			PDC		
IADC Code:		117			N/A			N/A			M432		
Serial Number:		H24459			64193 X44						S5D3673		
Nozzles:	No. x 1/32 [in]	3	x	20/32	3	x	32/32	3	x	30/32	6	x	14/32
		1	x	32/32									
TFA:	[in ²]	1.706			2.356			2.071			0.902		
Depth In:	[m] MD	0.0			28.0			133.2			549.5		
Depth Out:	[m] MD	28.0			133.2			549.5			1180.0		
Total Drilled:	[m]	28.0			105.2			416.3			630.5		
Total Time:	[hrs]	4.25			9.70			21.58			44.38		
Condition Out:		Good			Good			Good - 1 x chip button.			2-1-WT-C-X-I-NO-TD		



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APPENDIX 4. FLUID RECORD

TARLEE-2 FLUID PROPERTIES SUMMARY							
DATE	DEPTH (M)	WEIGHT (PPG)	Vis (sec/qt)	pH	Fluid Loss (mls)	OPERATION	MUD USED
30/07/15	28.0	8.33	28	n/a	n/a	WBM Drilling	Water
31/07/15	28.0	8.33	n/a	n/a	n/a	Cementing	Water
01/08/15	28.0	n/a	n/a	n/a	n/a	WOP*	Water
02/08/15	133.2	n/a	n/a	n/a	n/a	Air Drilling	Air and Foam
03/08/15	133.2	n/a	n/a	n/a	n/a	Cementing	Water
04/08/15	136.2	8.40	28	n/a	n/a	WBM Drilling	Water
05/08/15	260.0	8.55	43	10	9.4	Drilling	Air and Foam KCl / Polymer WBM
06/08/15	482.0	8.65	42	10	9.2	WBM Drilling	KCl / Polymer WBM
07/08/15	549.8	8.55	40	9.5	10.0	WBM Drilling	KCl / Polymer WBM
08/08/15	549.8	8.50	37	10	11.4	Cementing	KCl / Polymer WBM
09/08/15	569.0	8.55	36	9.5	8.0	WBM Drilling	KCl / Polymer WBM
10/08/15	818.0	8.90	36	9.2	7.0	WBM Drilling	KCl / Polymer WBM
11/08/15	984.0	8.90	37	9.0	6.2	WBM Drilling	KCl / Polymer WBM
12/08/15	1180.0	9.30	37	8.5	7.8	WBM Drilling	KCl / Polymer WBM

*WOP: Waiting on Part