

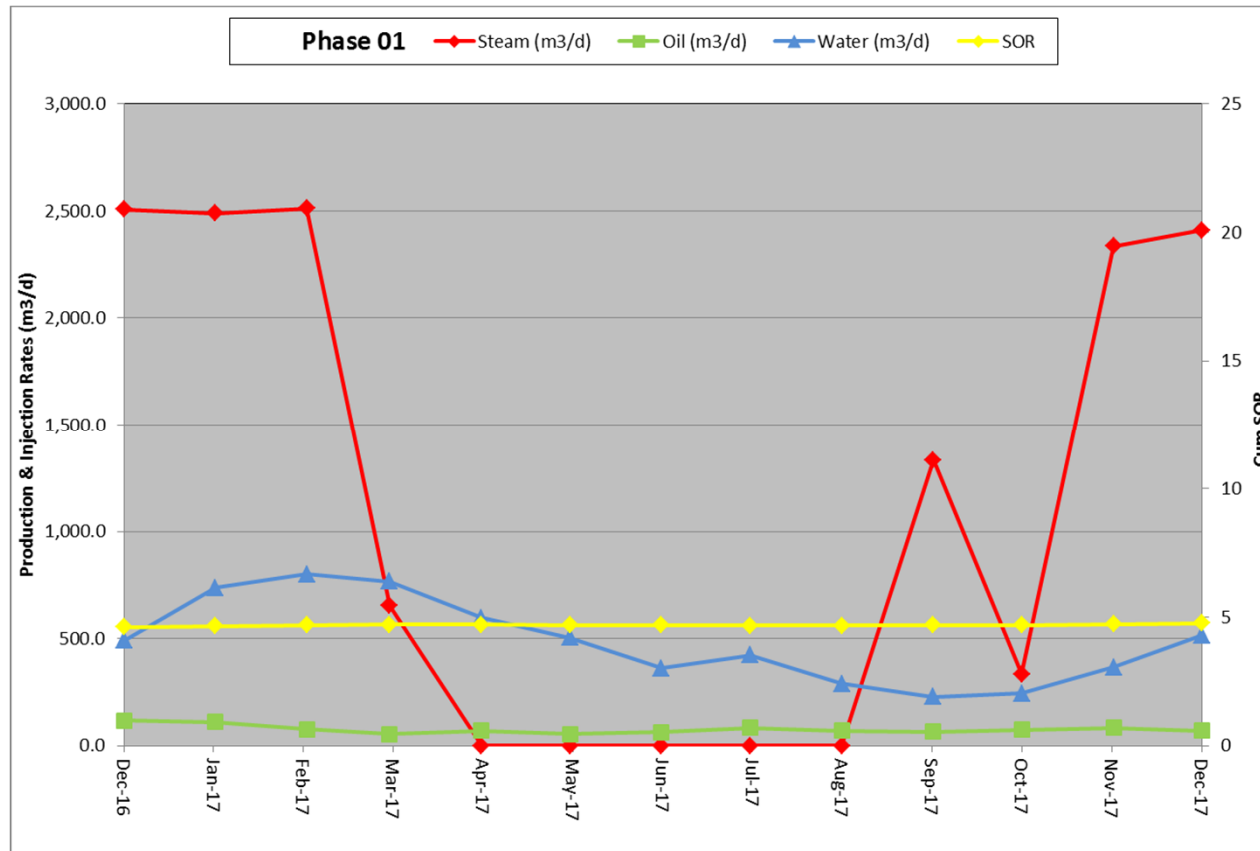


**2017 PRIMROSE, WOLF LAKE AND BURNT LAKE
ANNUAL PRESENTATION TO THE AER**

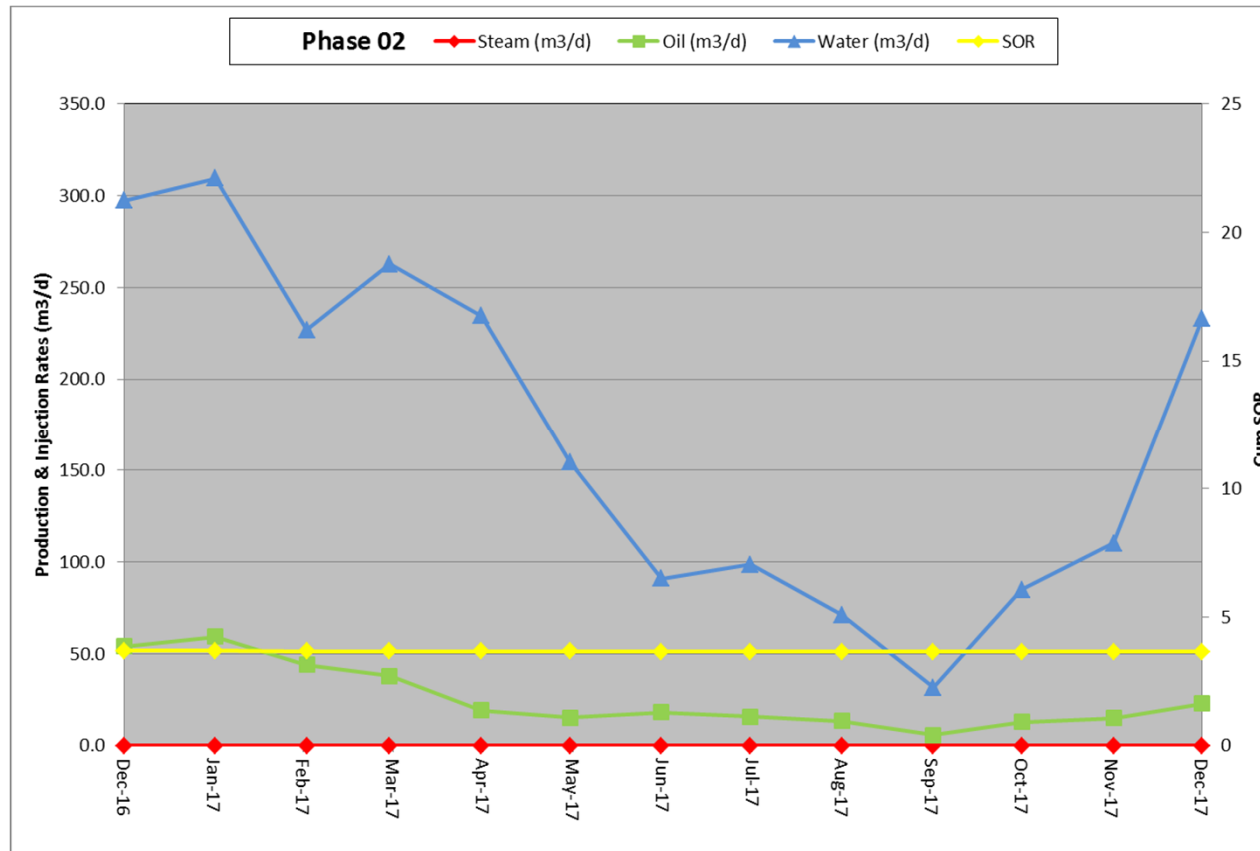
Subsurface Issues Related to Resource Evaluation and Recovery - Appendix

PREMIUM VALUE. DEFINED GROWTH. INDEPENDENT.

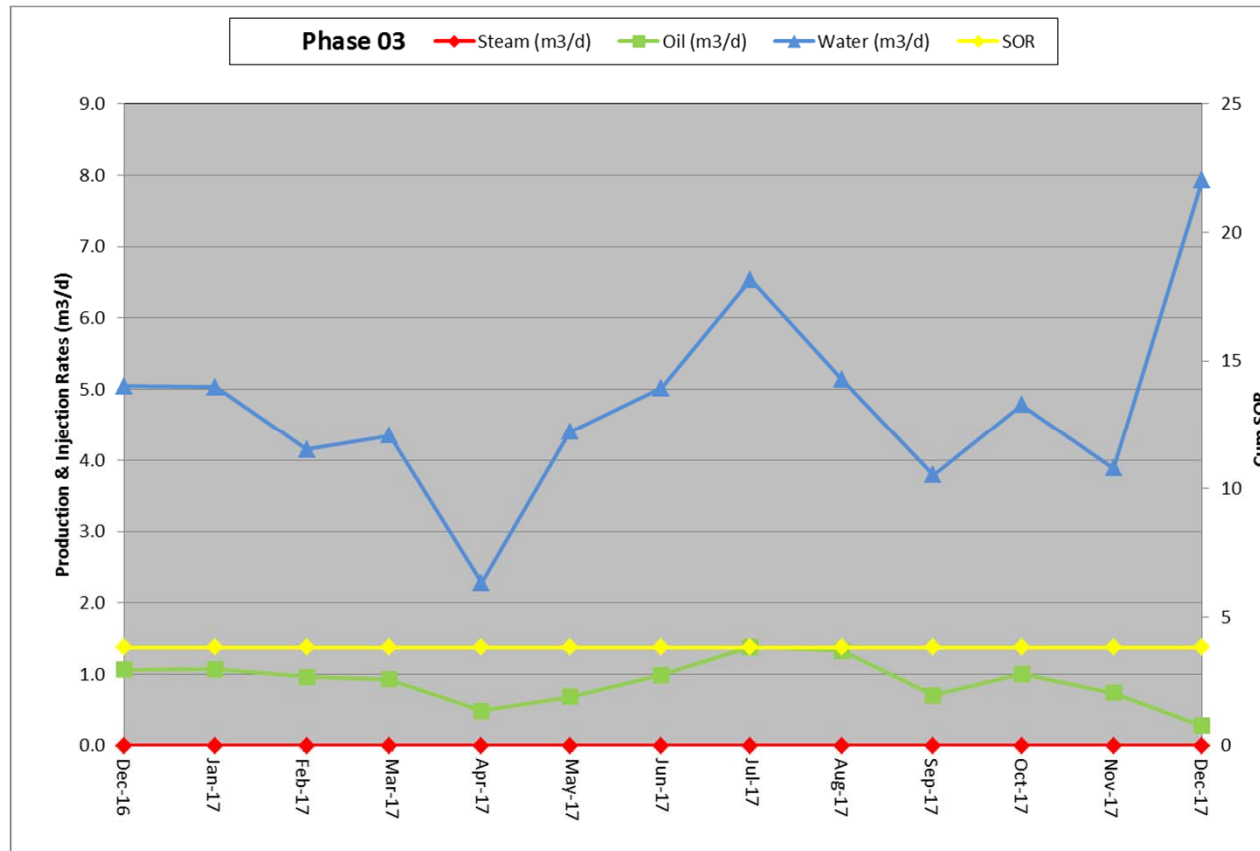
Primrose Pad Plots – AER Review for 2017



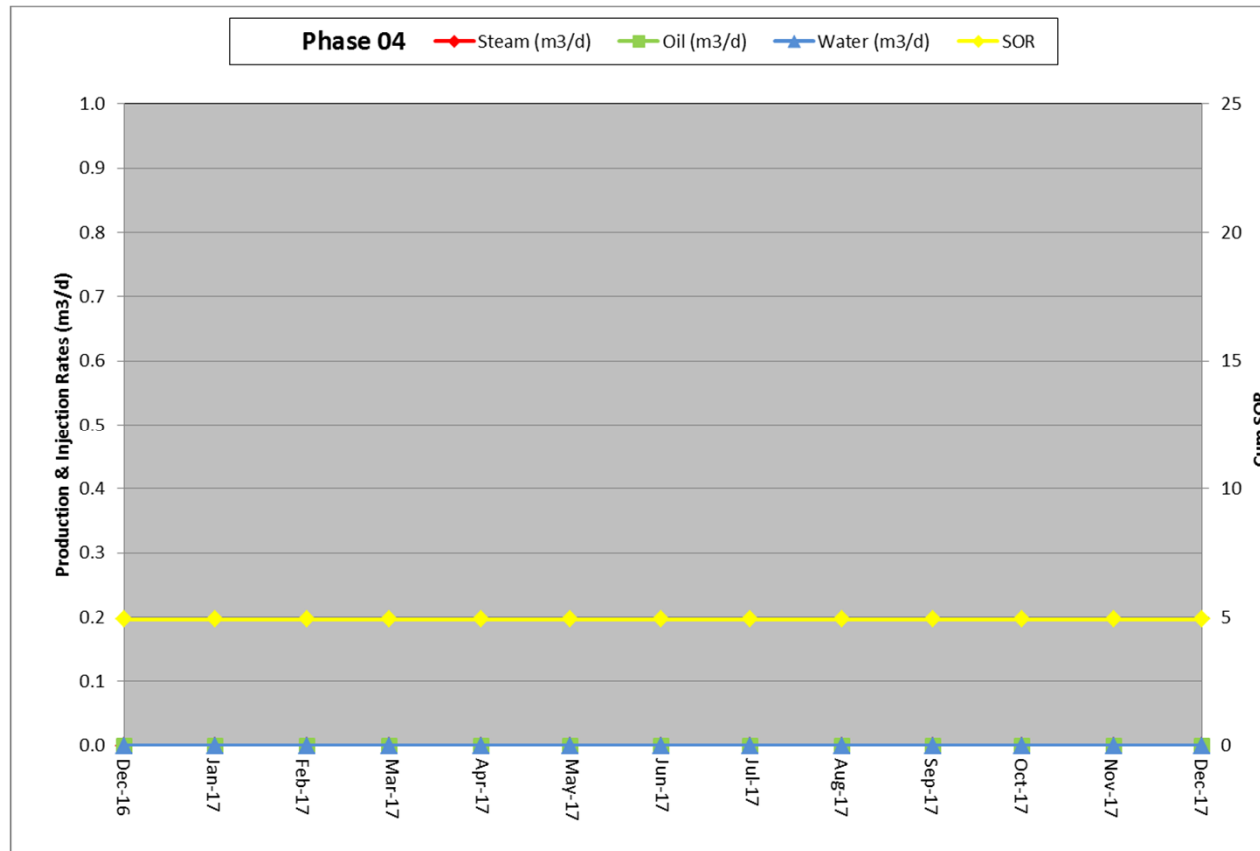
Primrose Pad Plots – AER Review for 2017



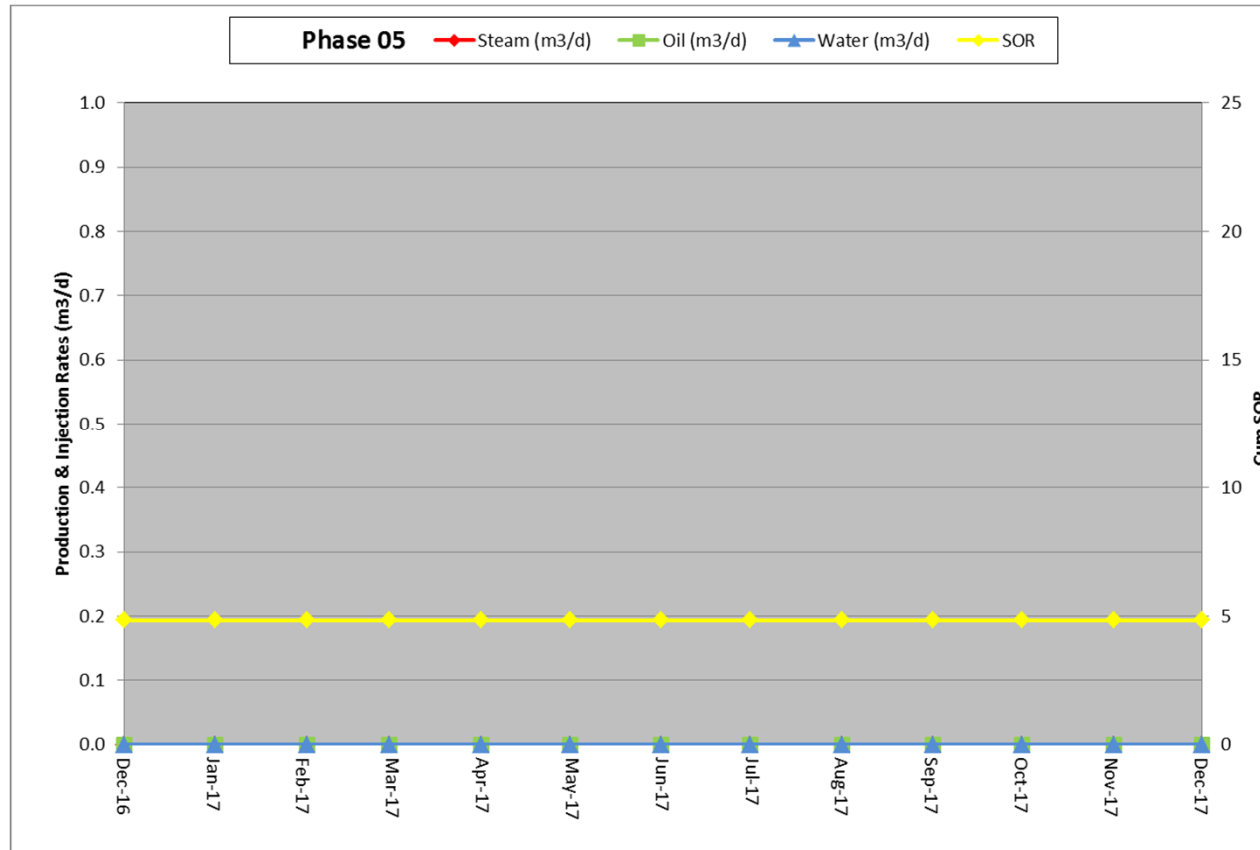
Primrose Pad Plots – AER Review for 2017



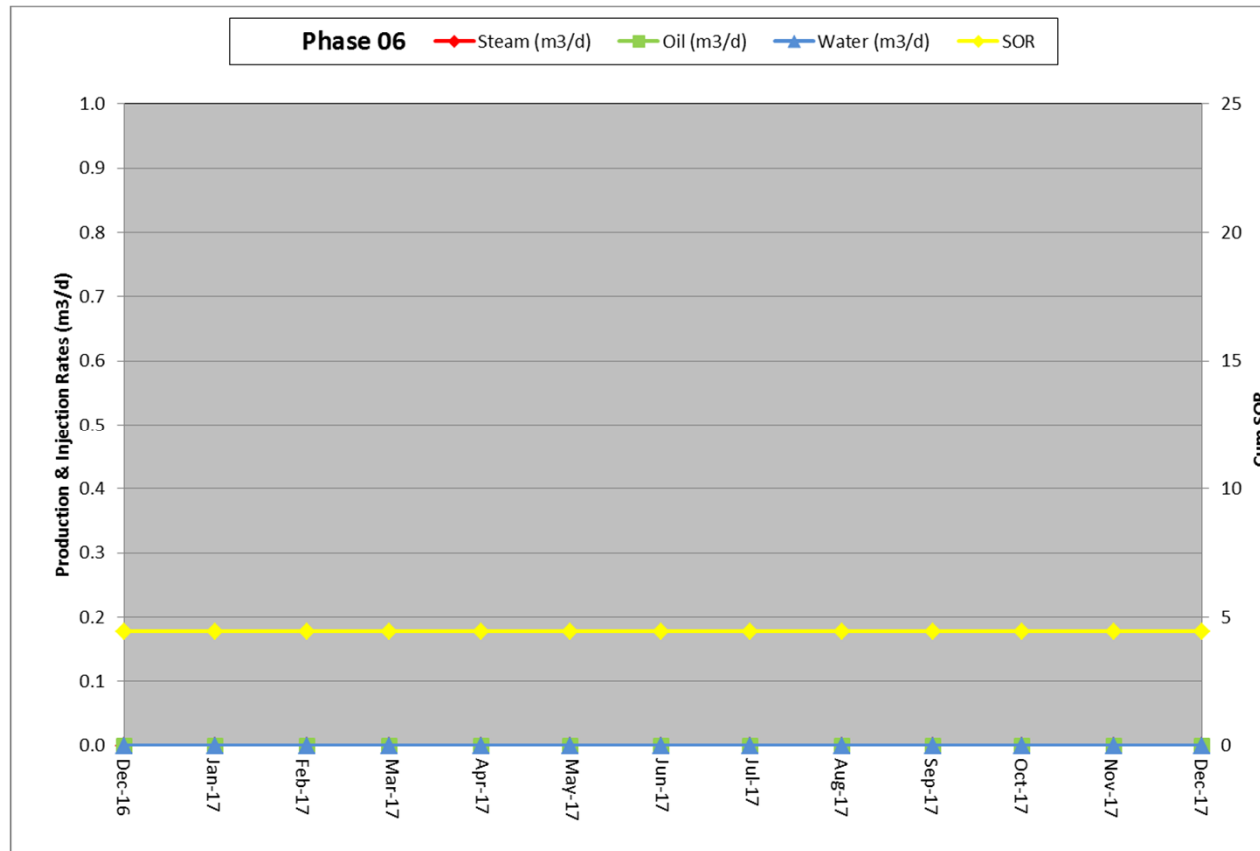
Primrose Pad Plots – AER Review for 2017



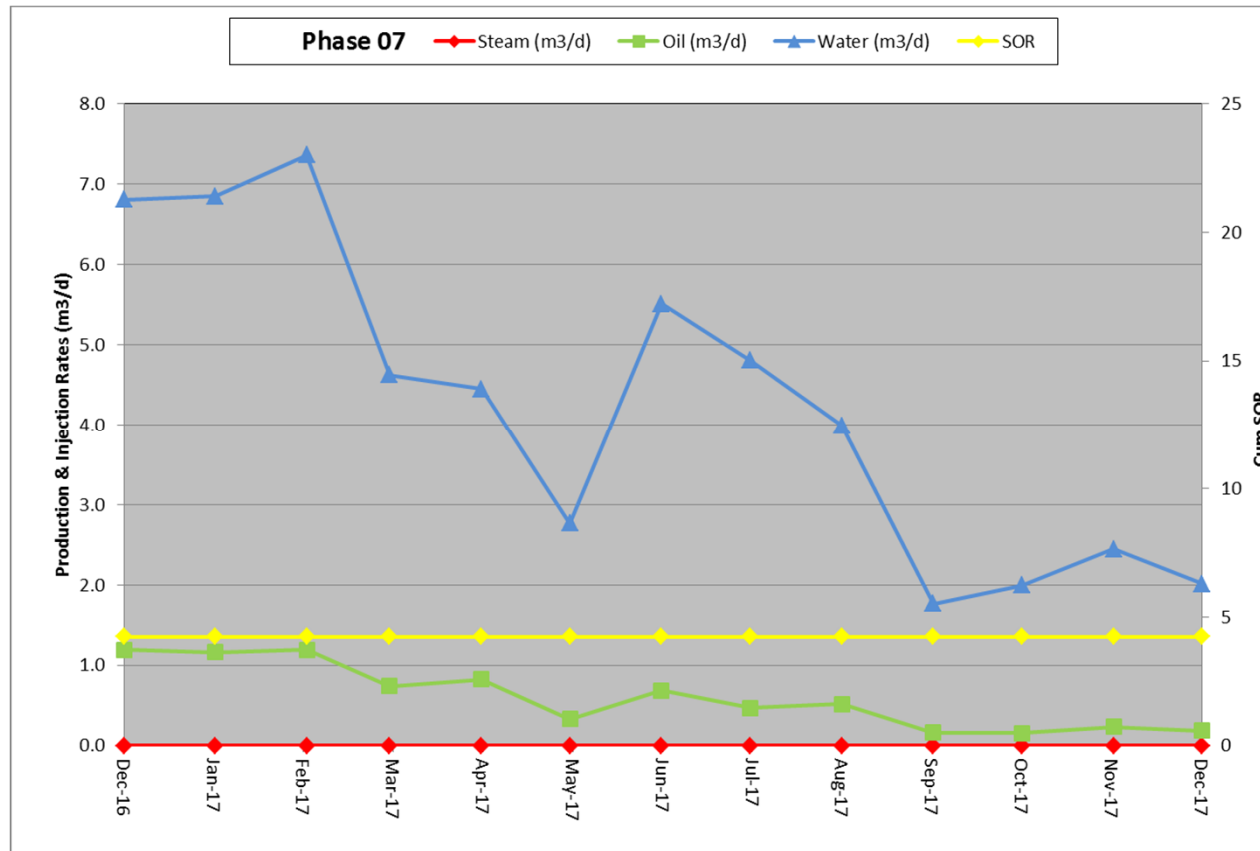
Primrose Pad Plots – AER Review for 2017



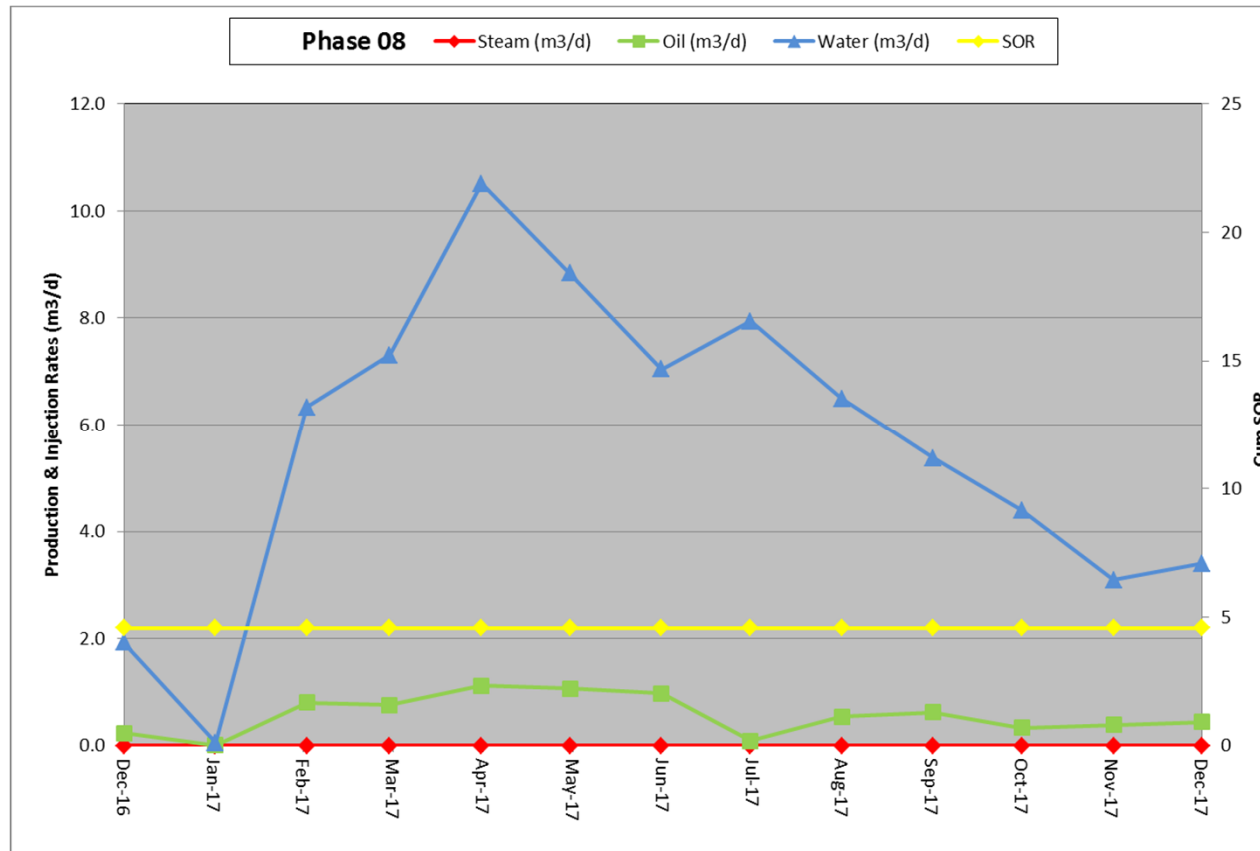
Primrose Pad Plots – AER Review for 2017



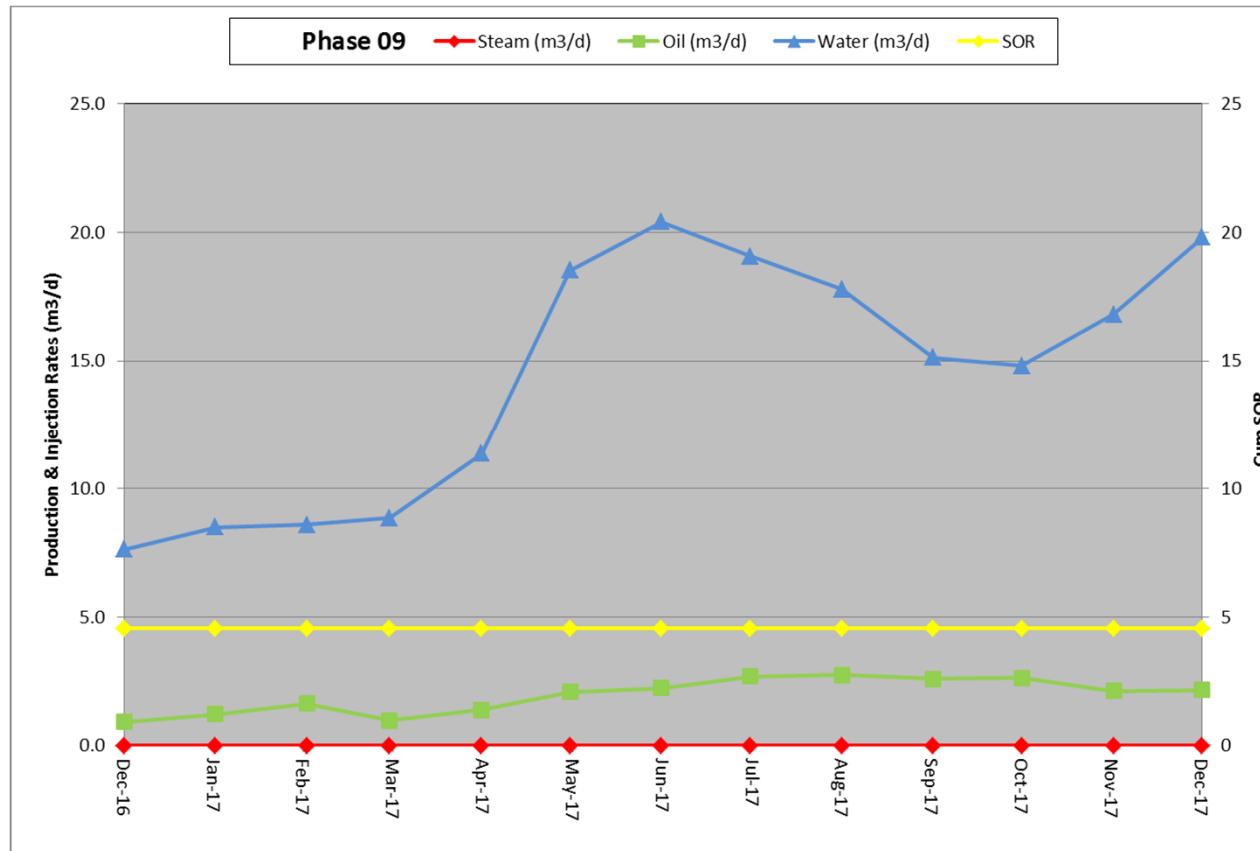
Primrose Pad Plots – AER Review for 2017



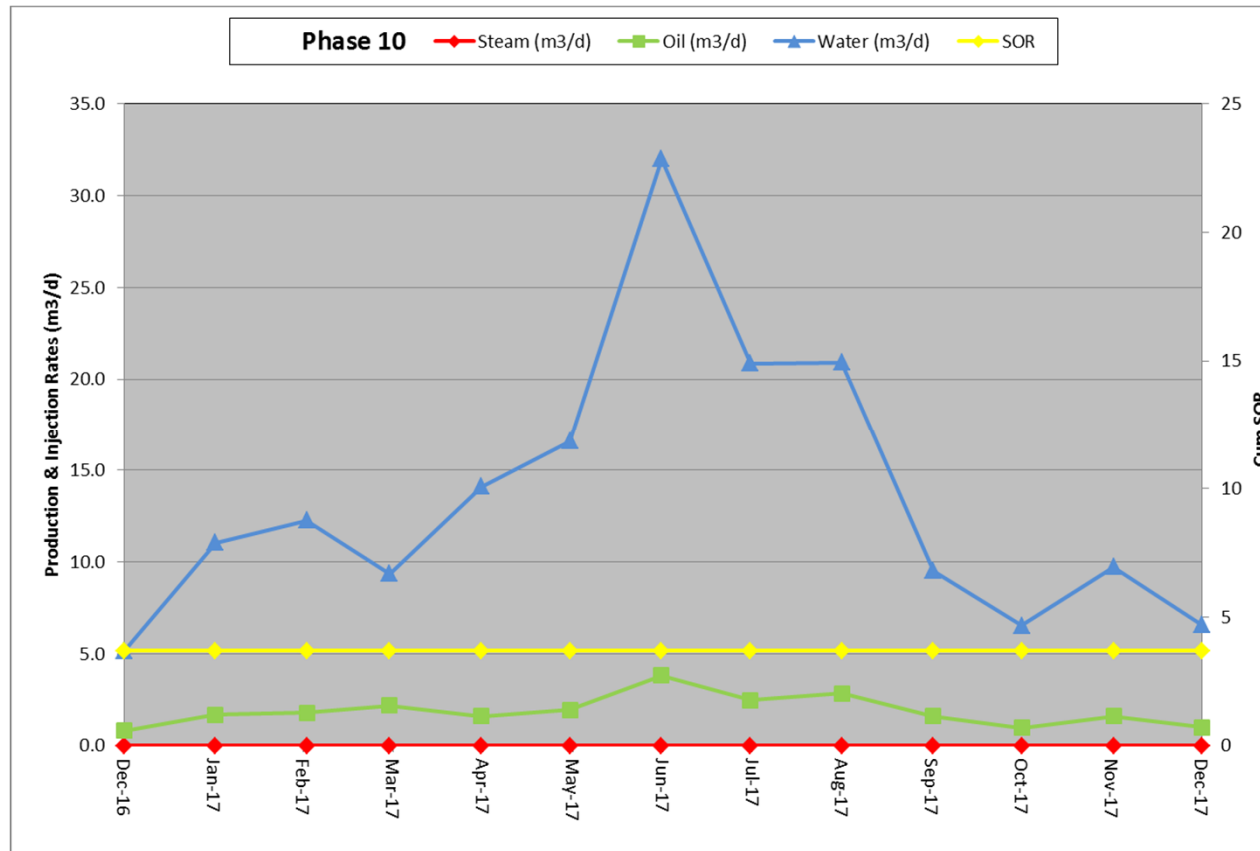
Primrose Pad Plots – AER Review for 2017



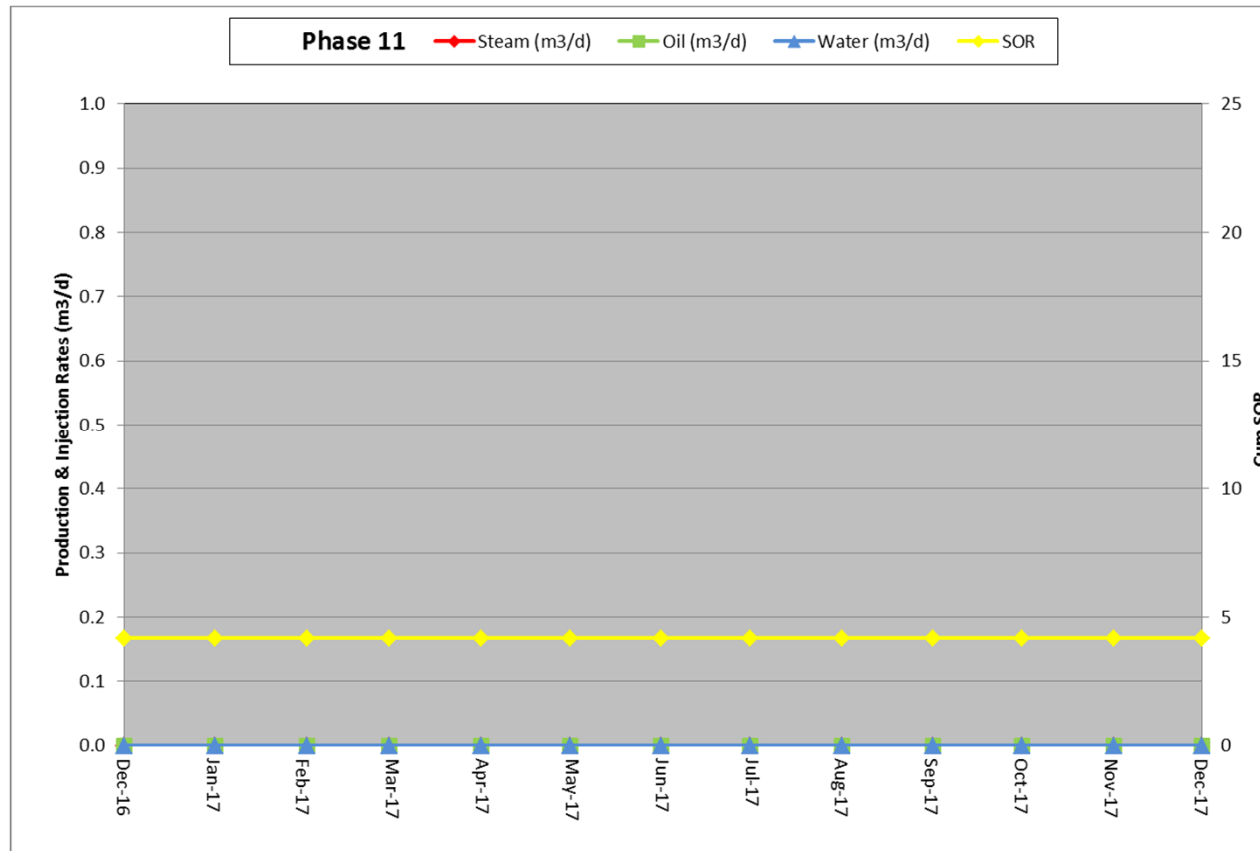
Primrose Pad Plots – AER Review for 2017



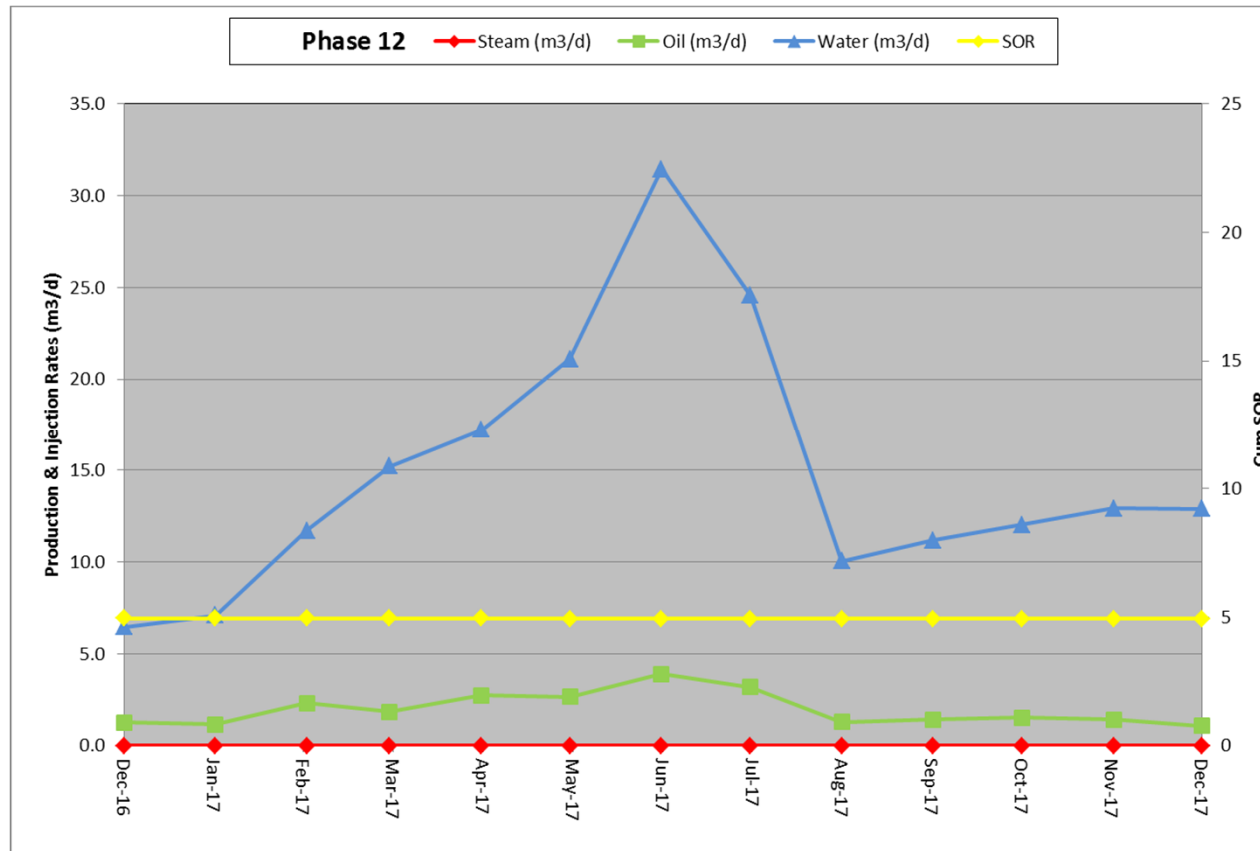
Primrose Pad Plots – AER Review for 2017



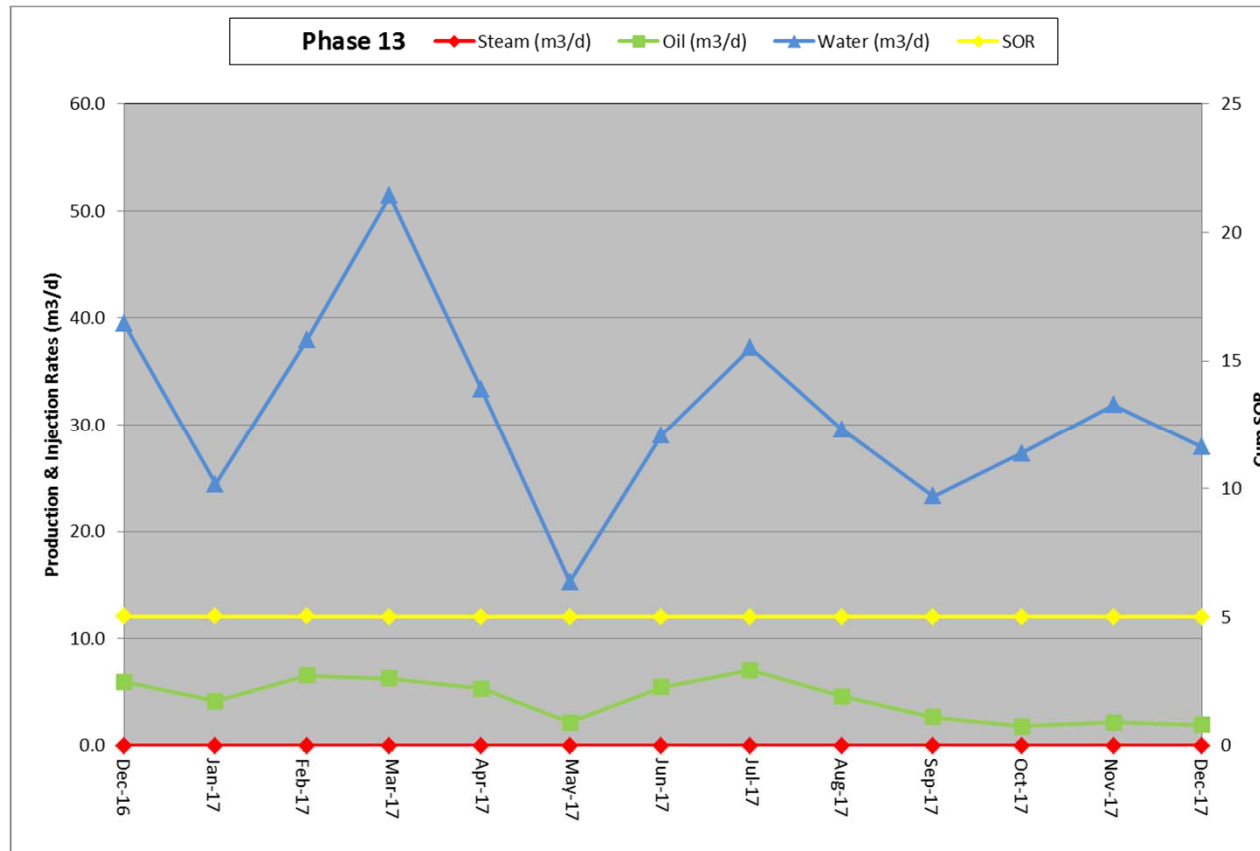
Primrose Pad Plots – AER Review for 2017



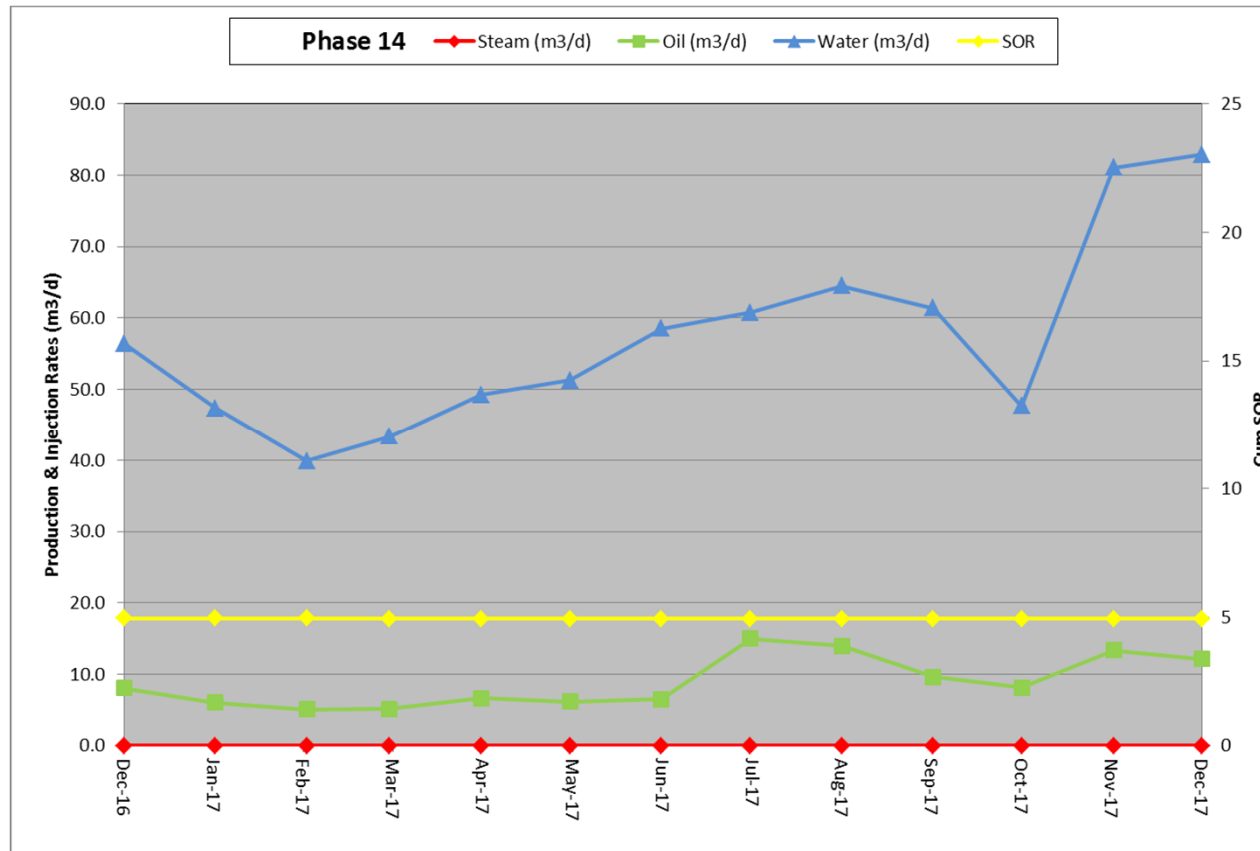
Primrose Pad Plots – AER Review for 2017



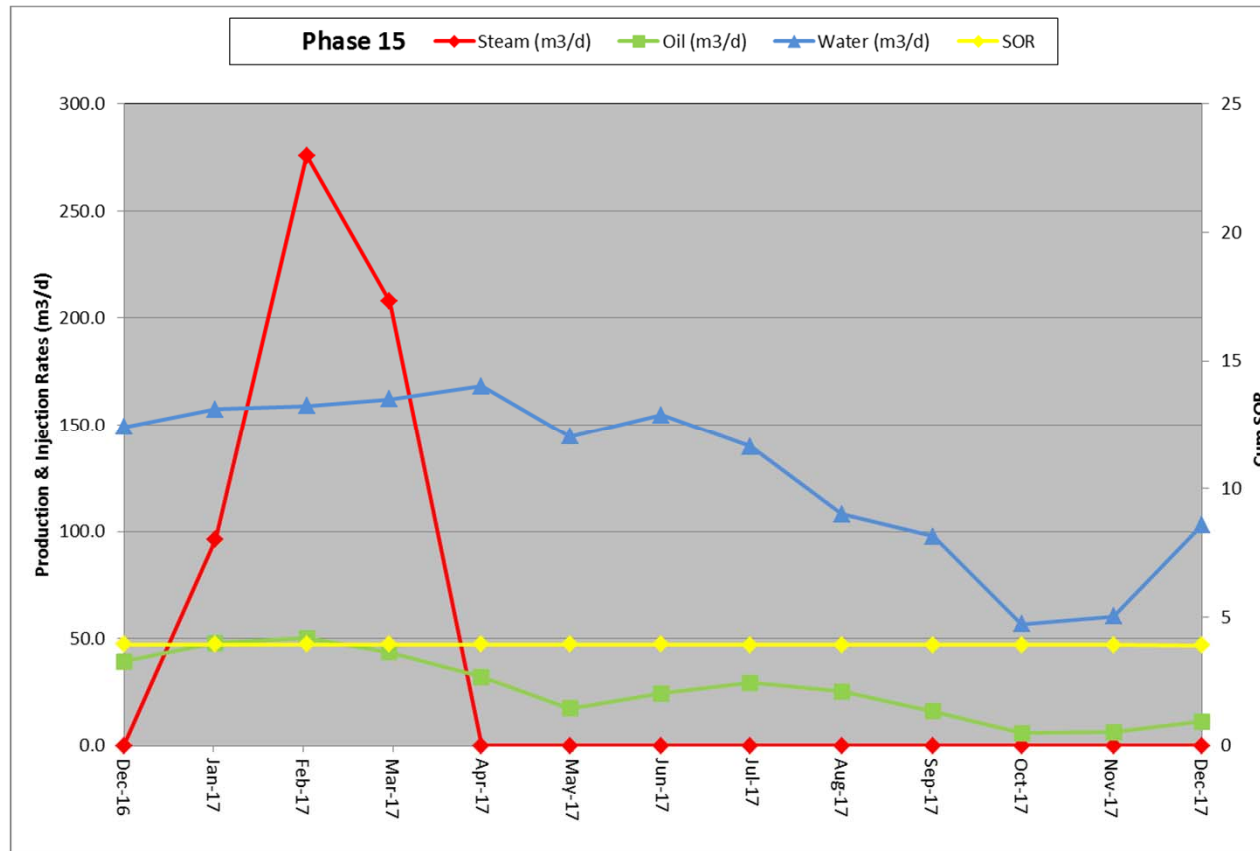
Primrose Pad Plots – AER Review for 2017



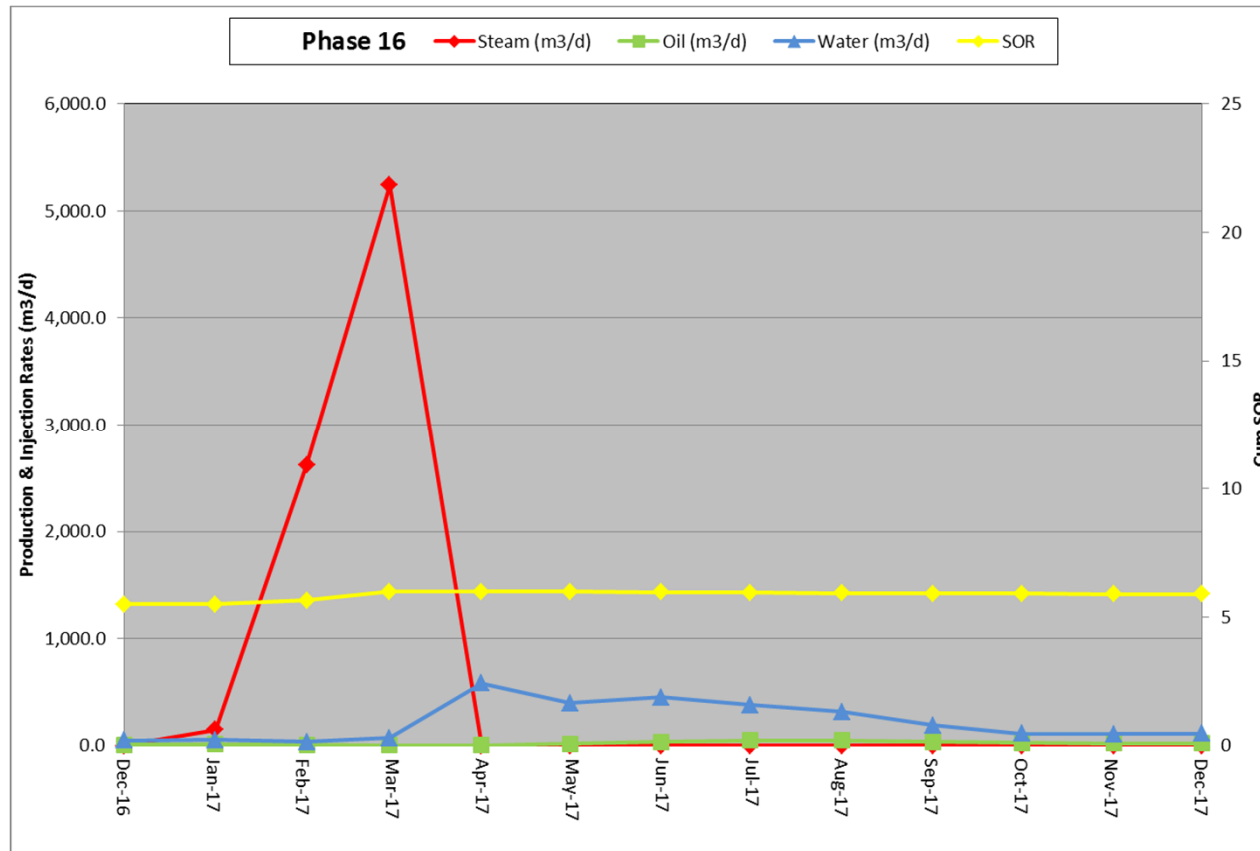
Primrose Pad Plots – AER Review for 2017



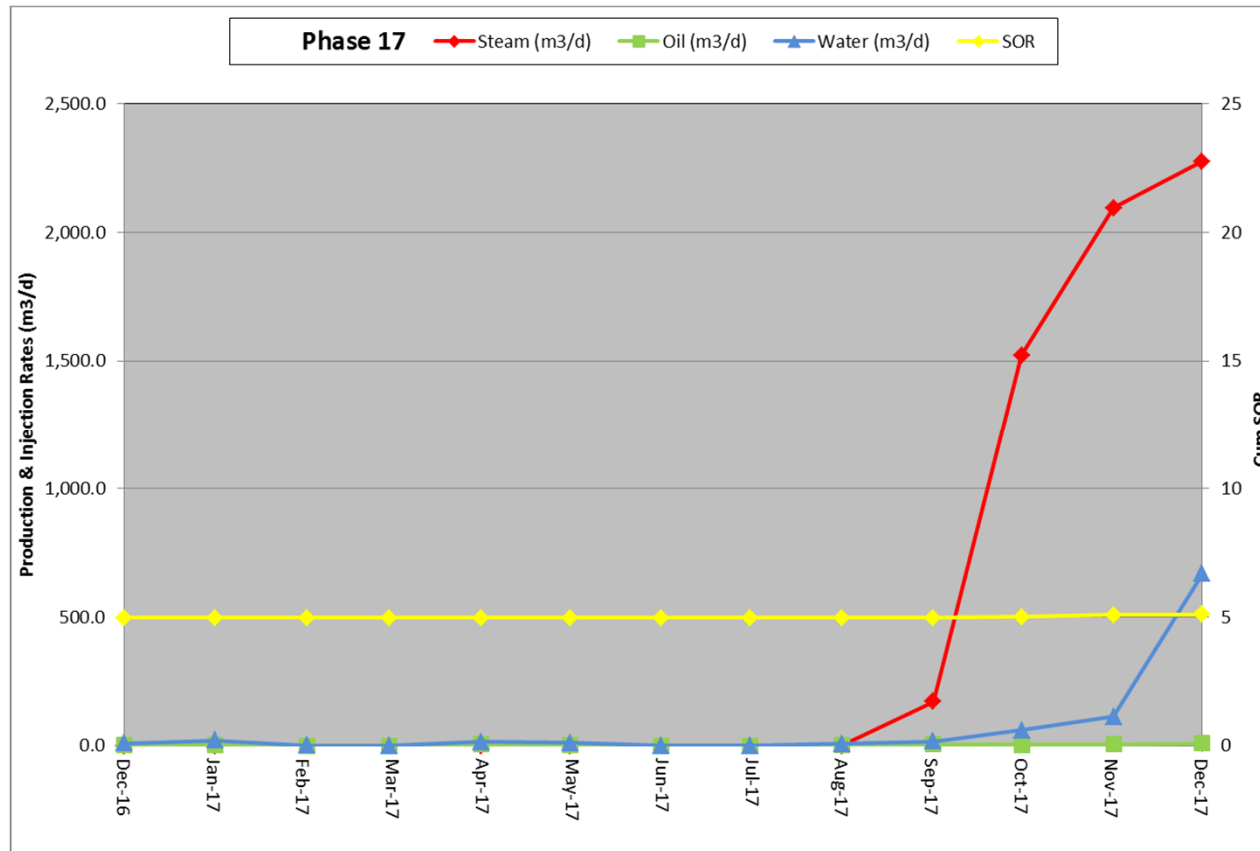
Primrose Pad Plots – AER Review for 2017



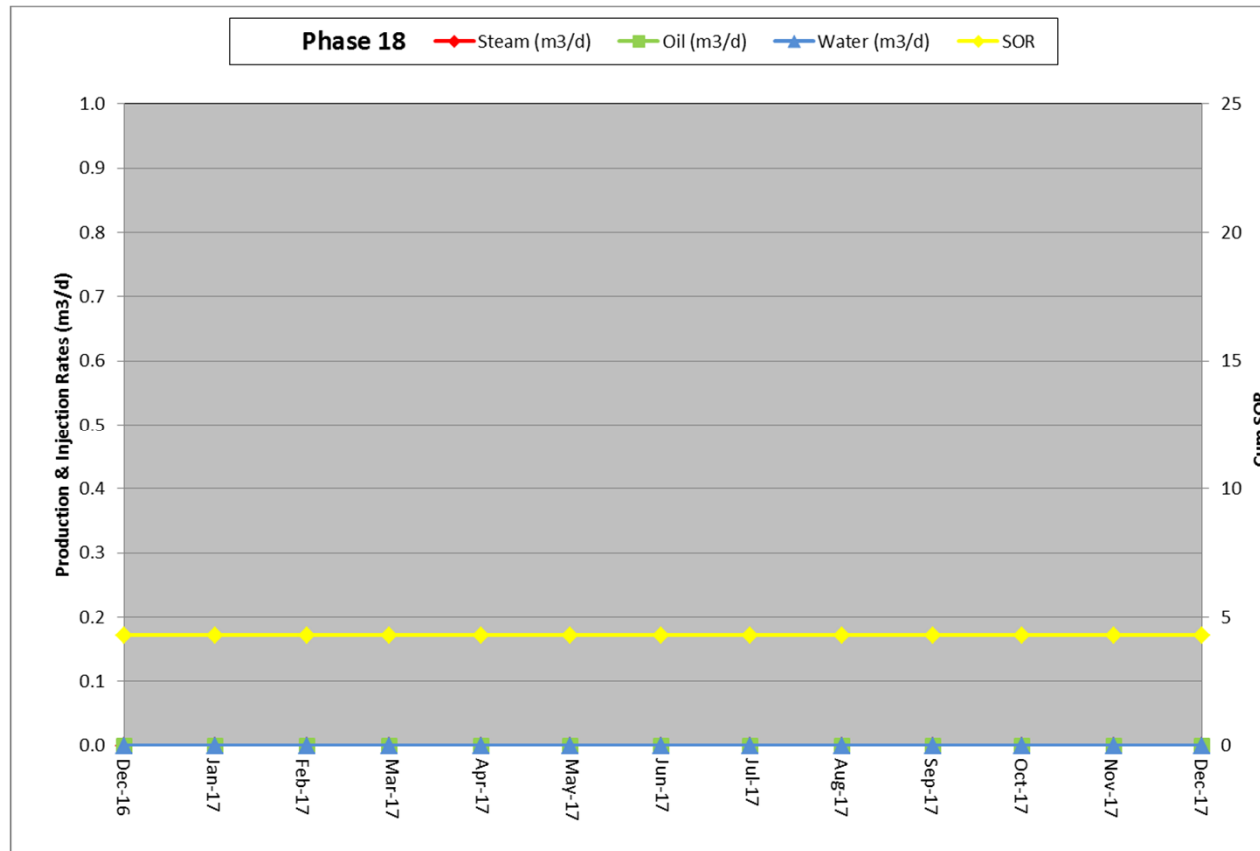
Primrose Pad Plots – AER Review for 2017



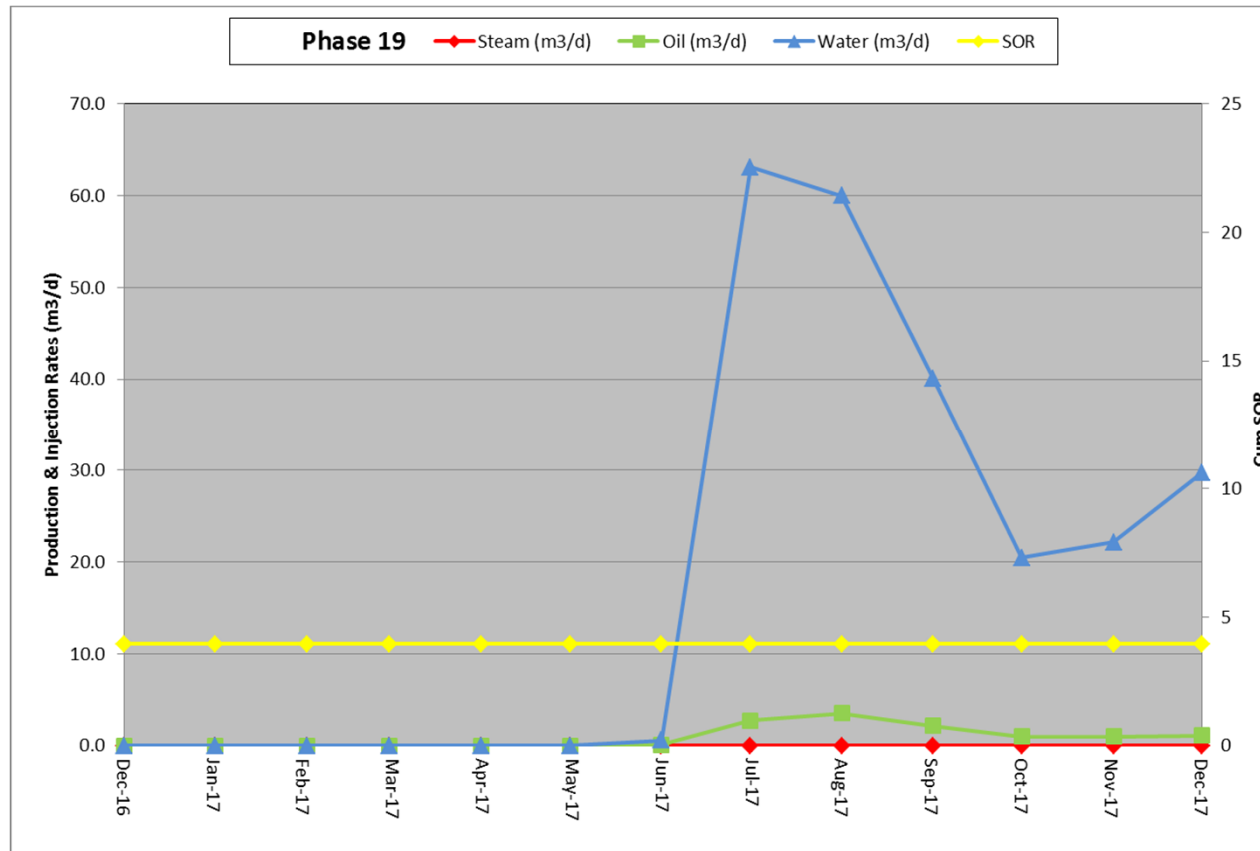
Primrose Pad Plots – AER Review for 2017



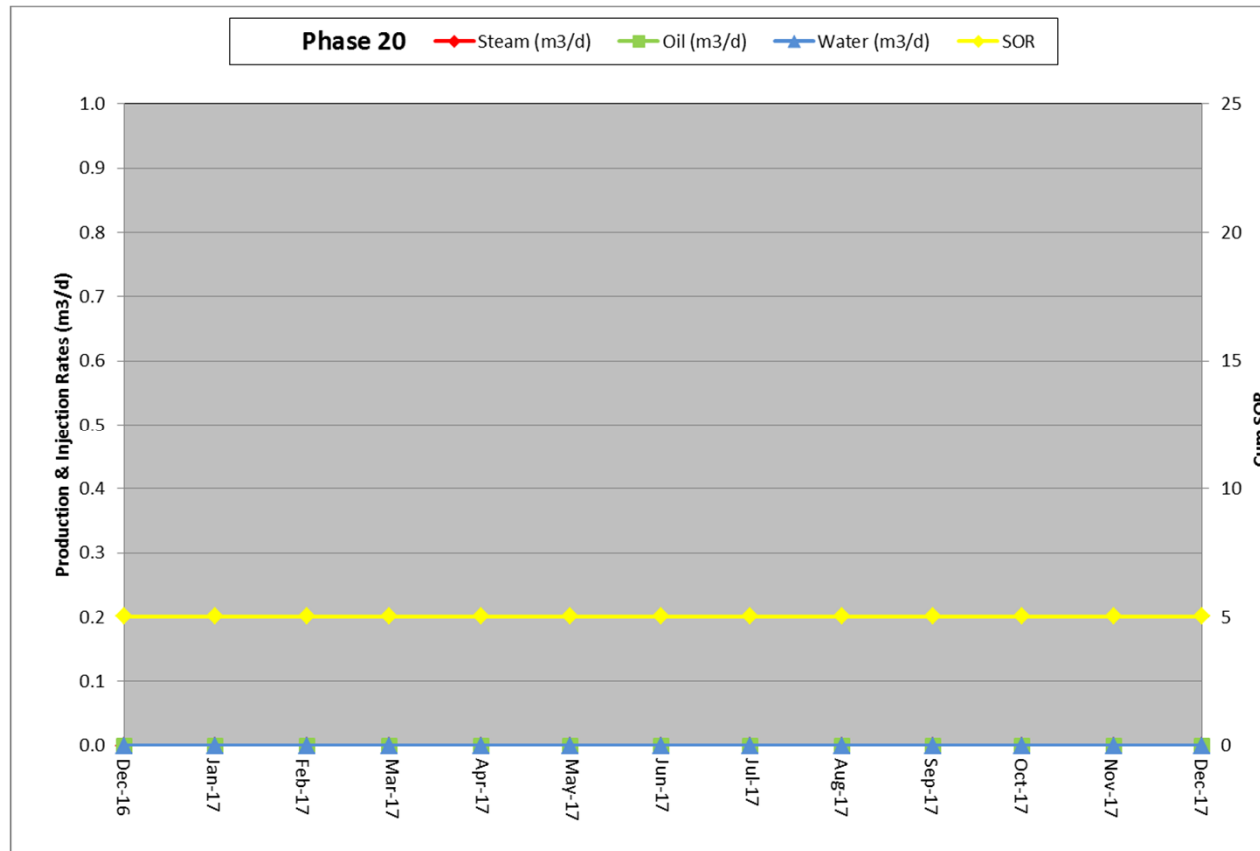
Primrose Pad Plots – AER Review for 2017



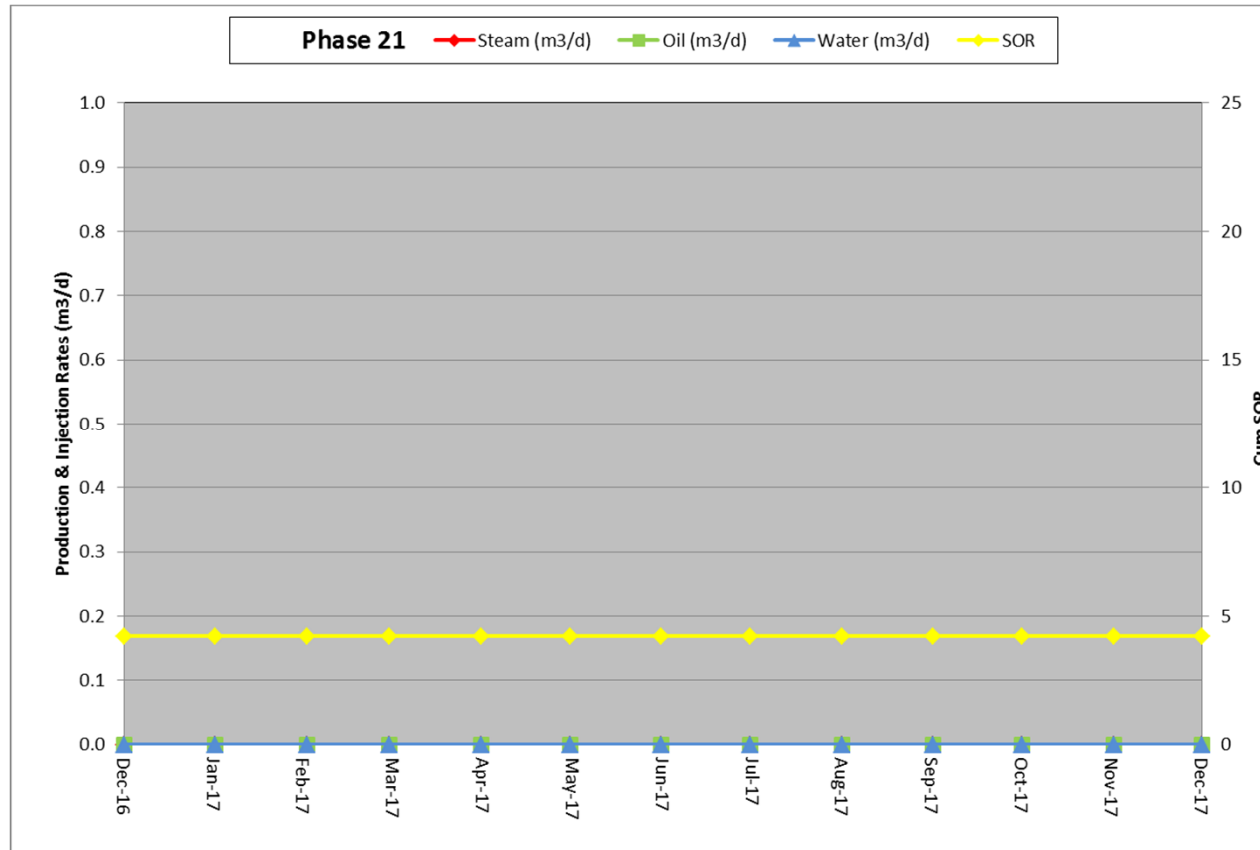
Primrose Pad Plots – AER Review for 2017



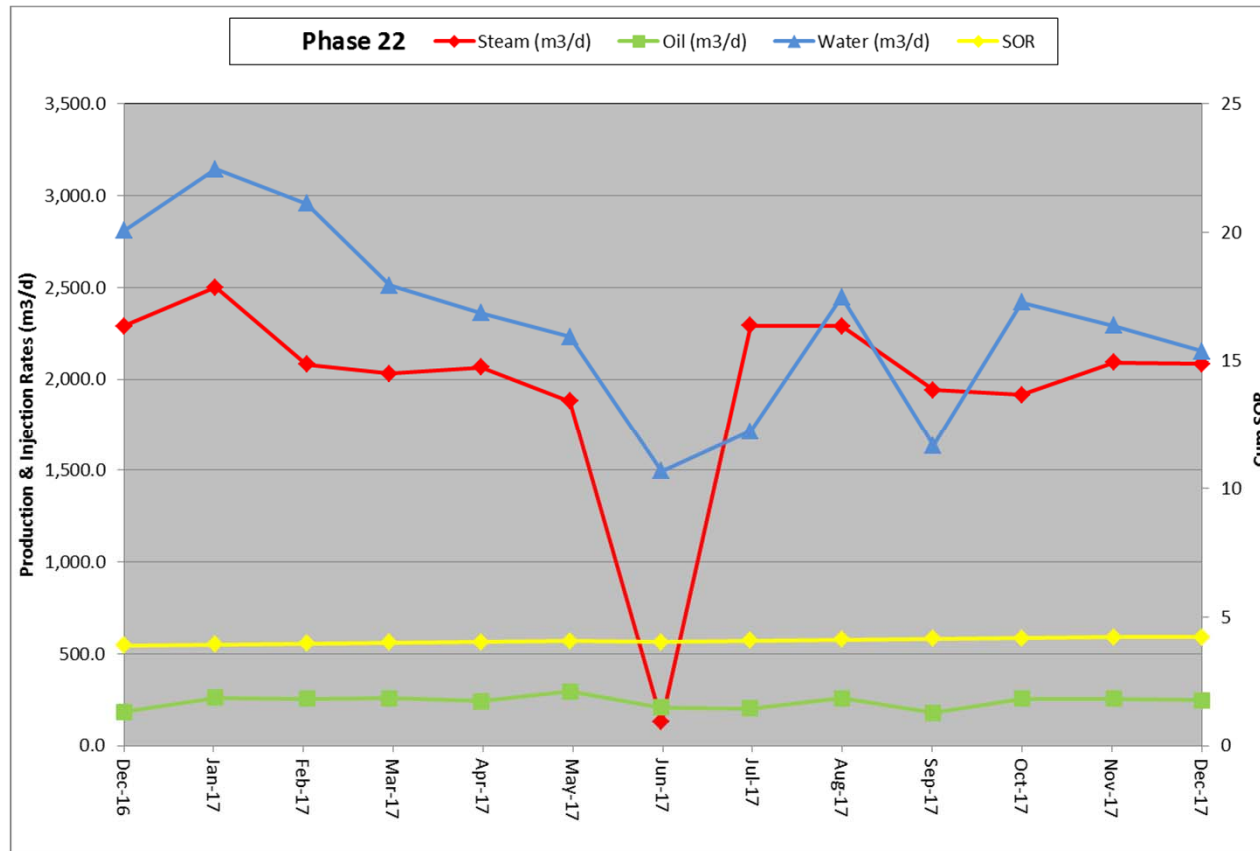
Primrose Pad Plots – AER Review for 2017



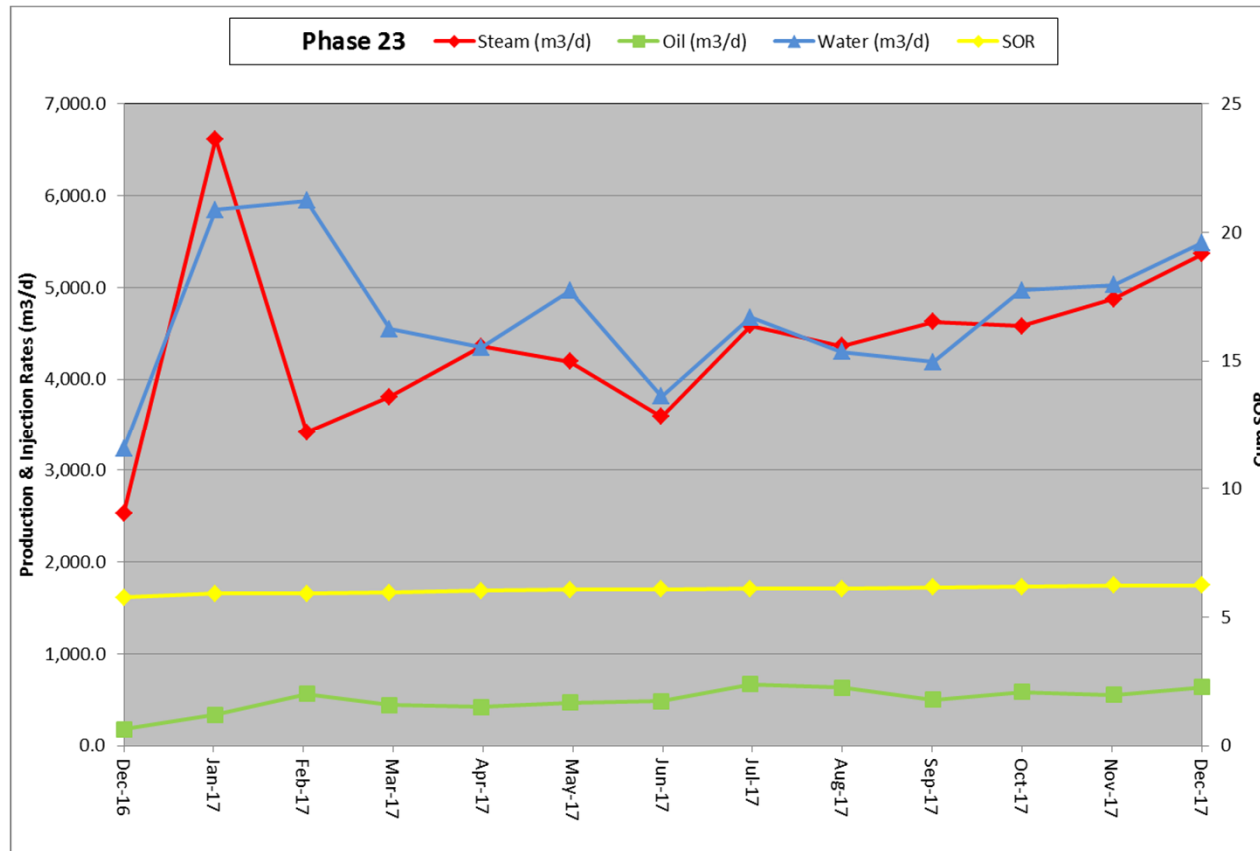
Primrose Pad Plots – AER Review for 2017



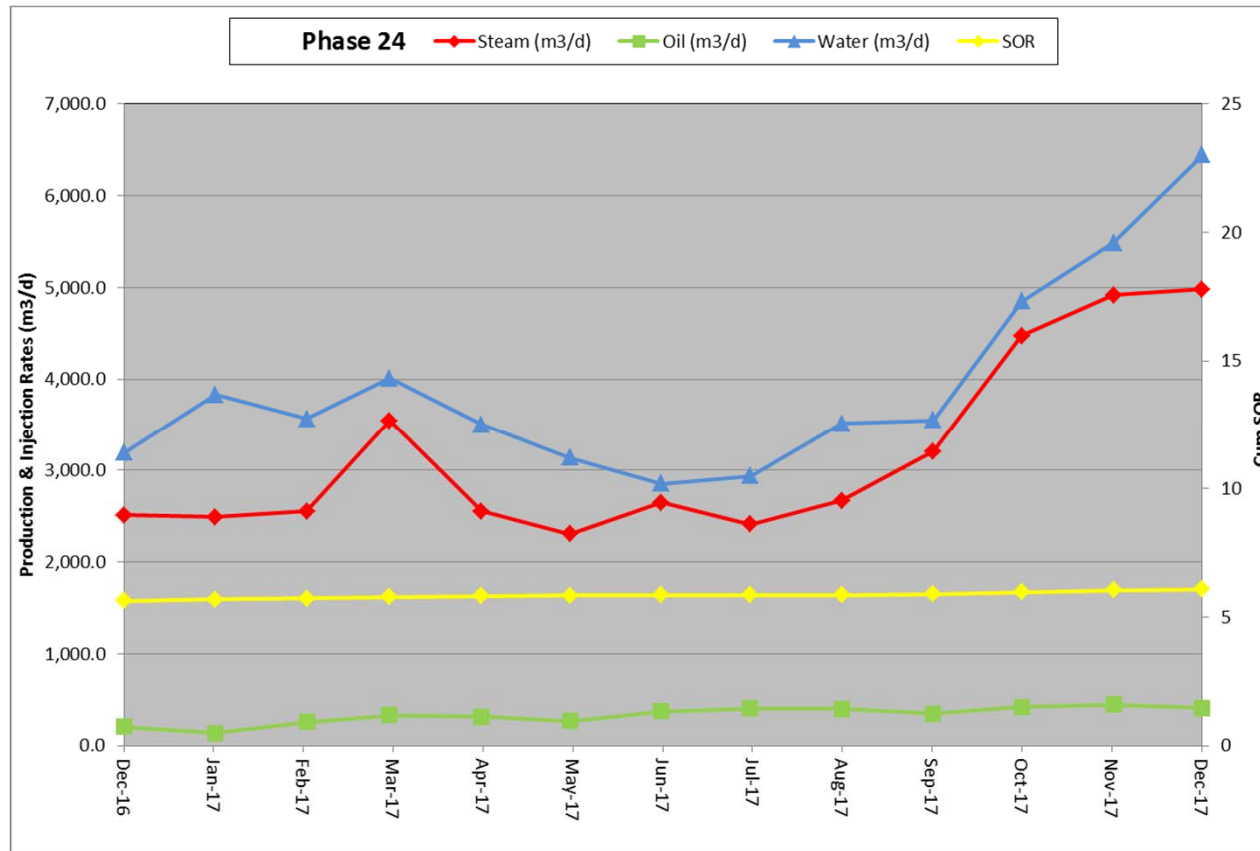
Primrose Pad Plots – AER Review for 2017



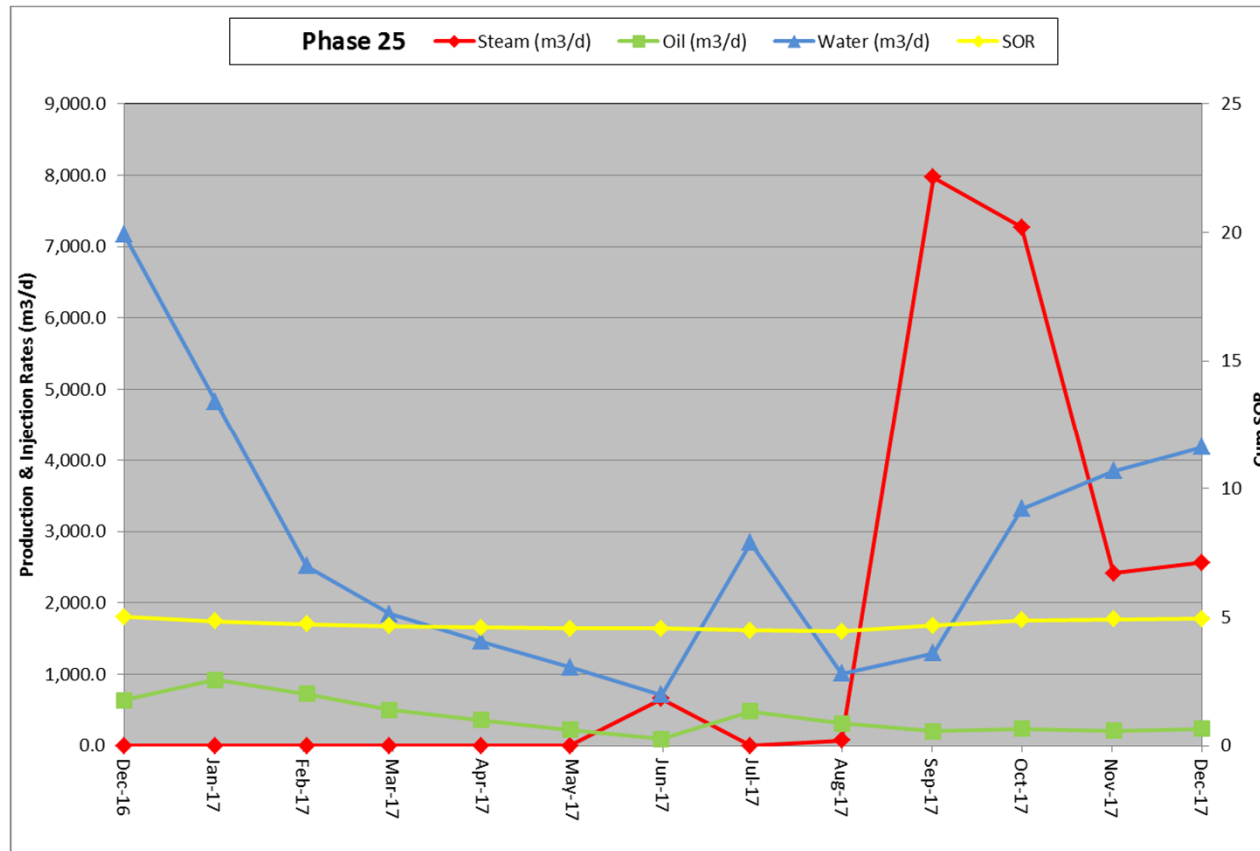
Primrose Pad Plots – AER Review for 2017



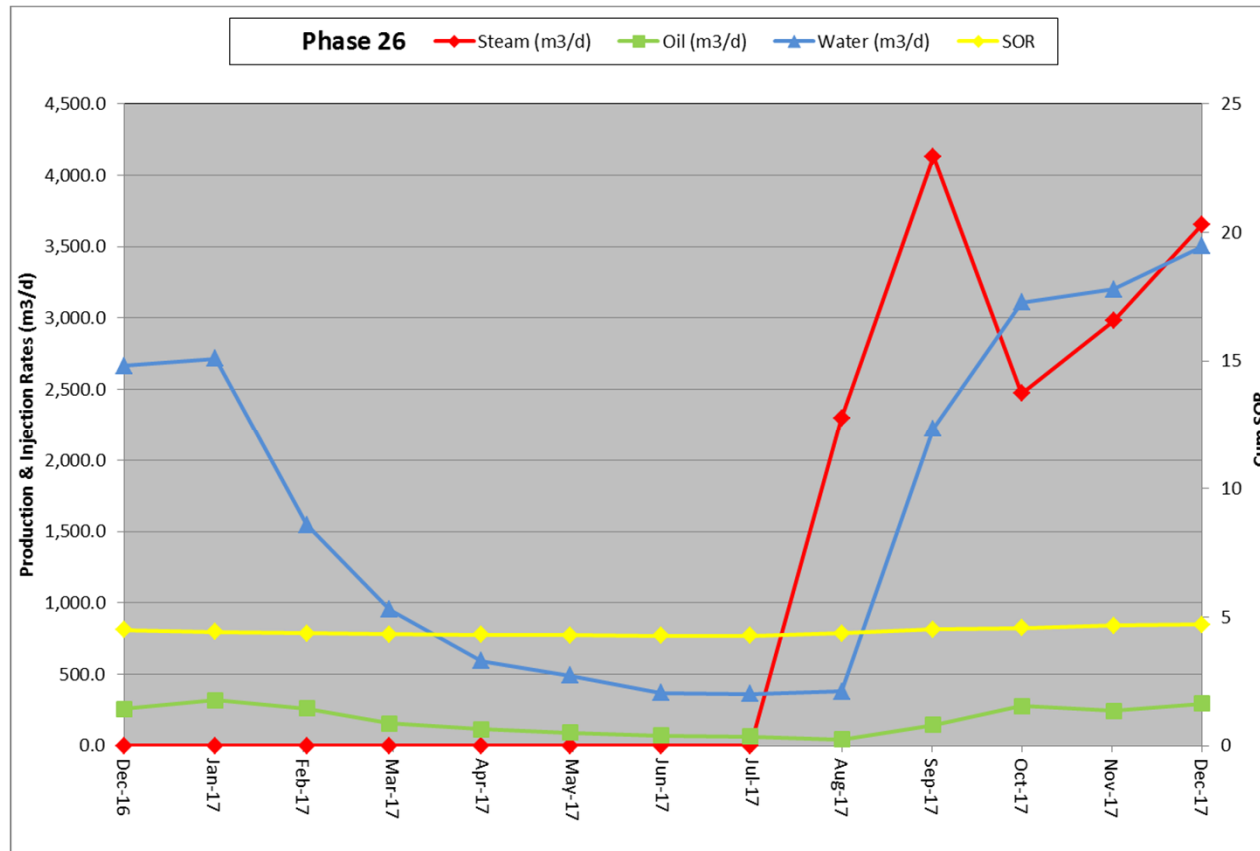
Primrose Pad Plots – AER Review for 2017



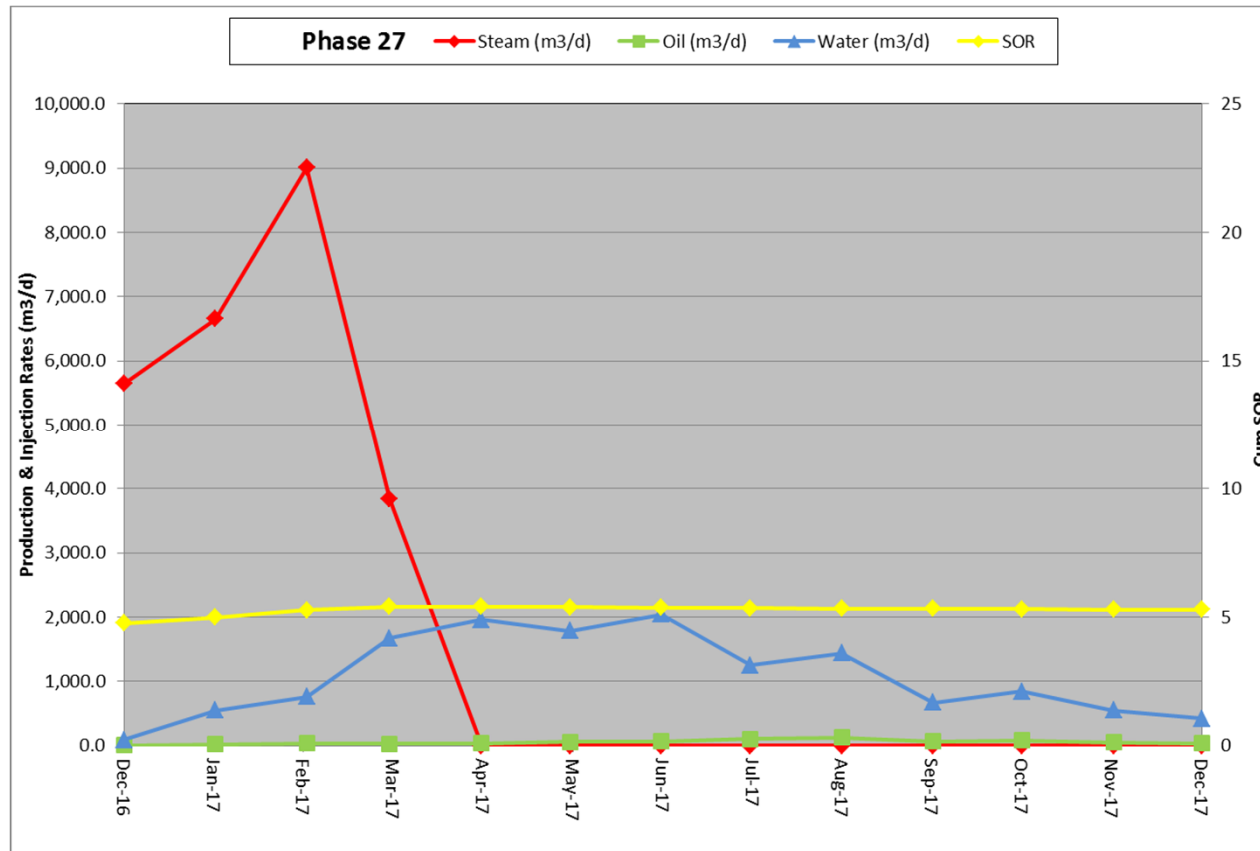
Primrose Pad Plots – AER Review for 2017



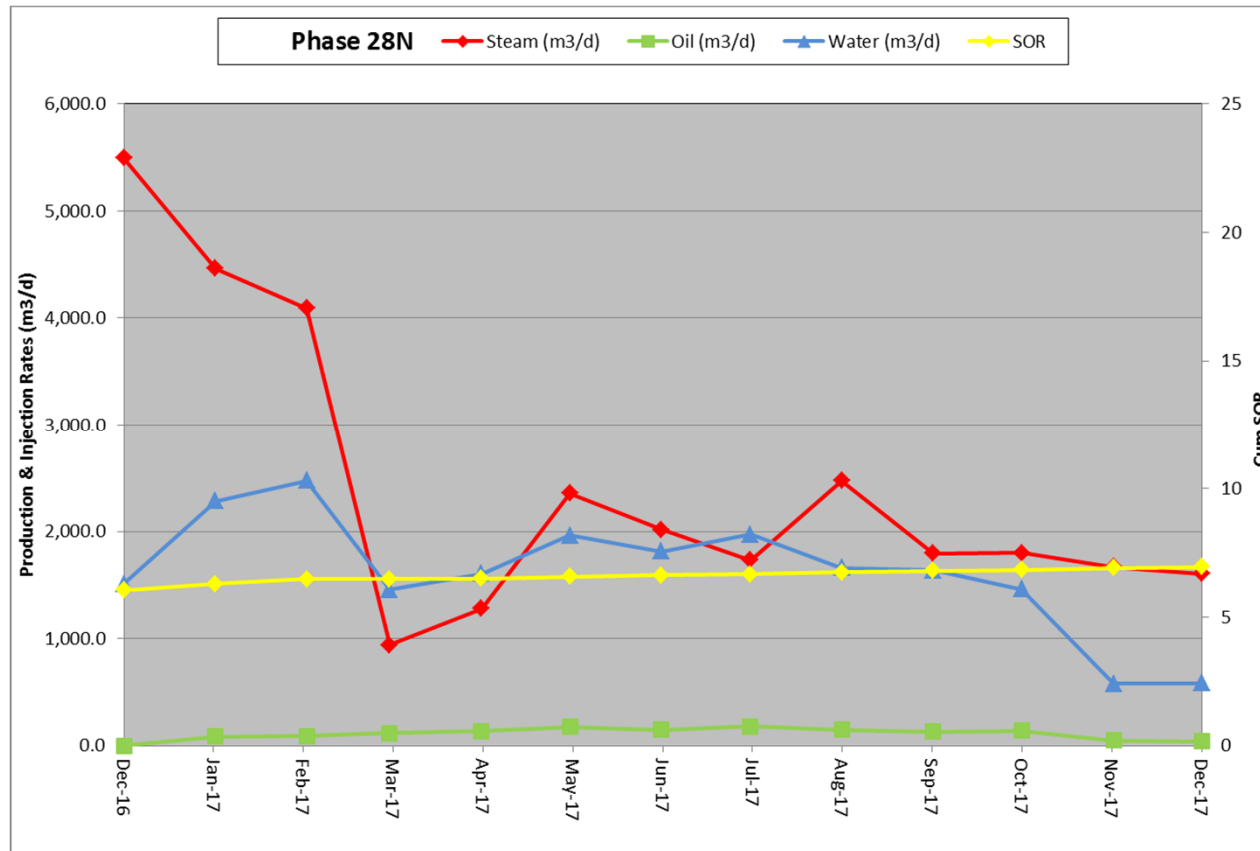
Primrose Pad Plots – AER Review for 2017



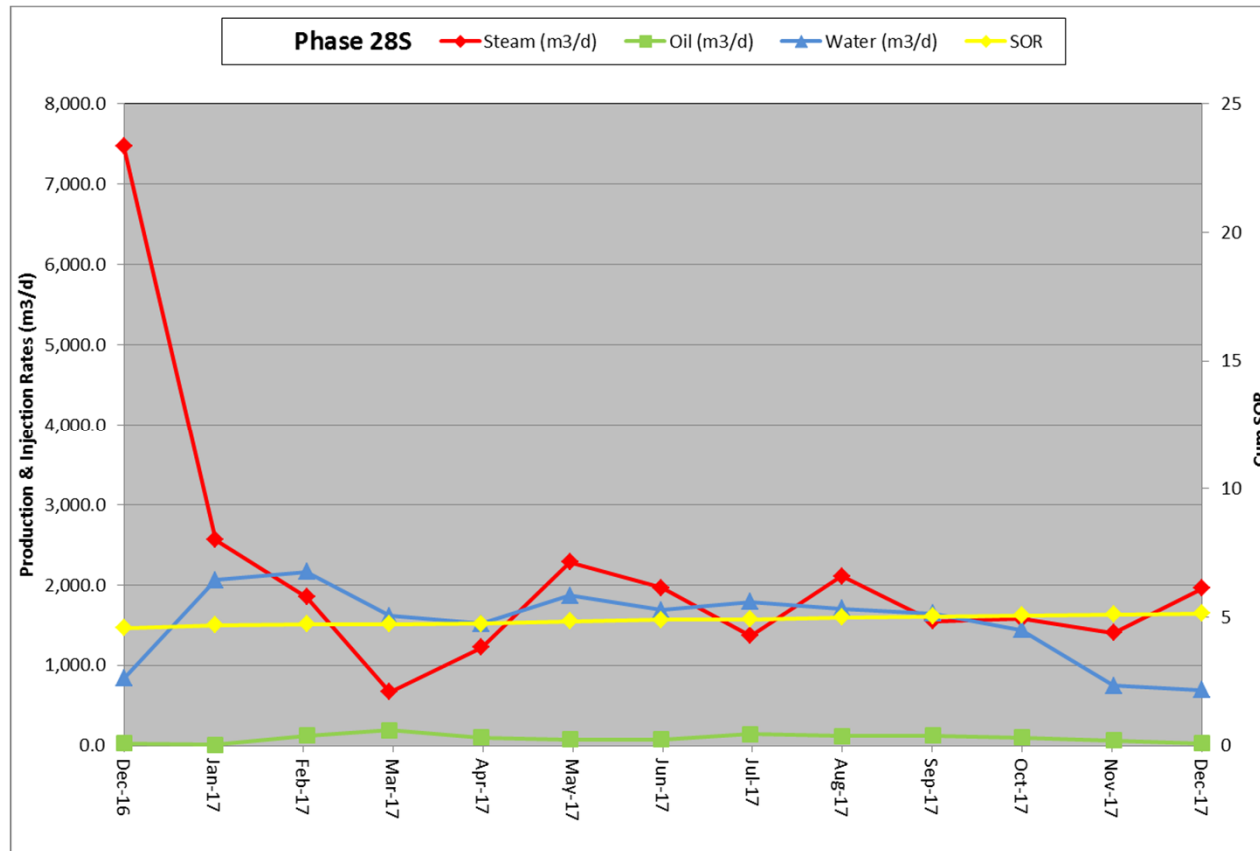
Primrose Pad Plots – AER Review for 2017



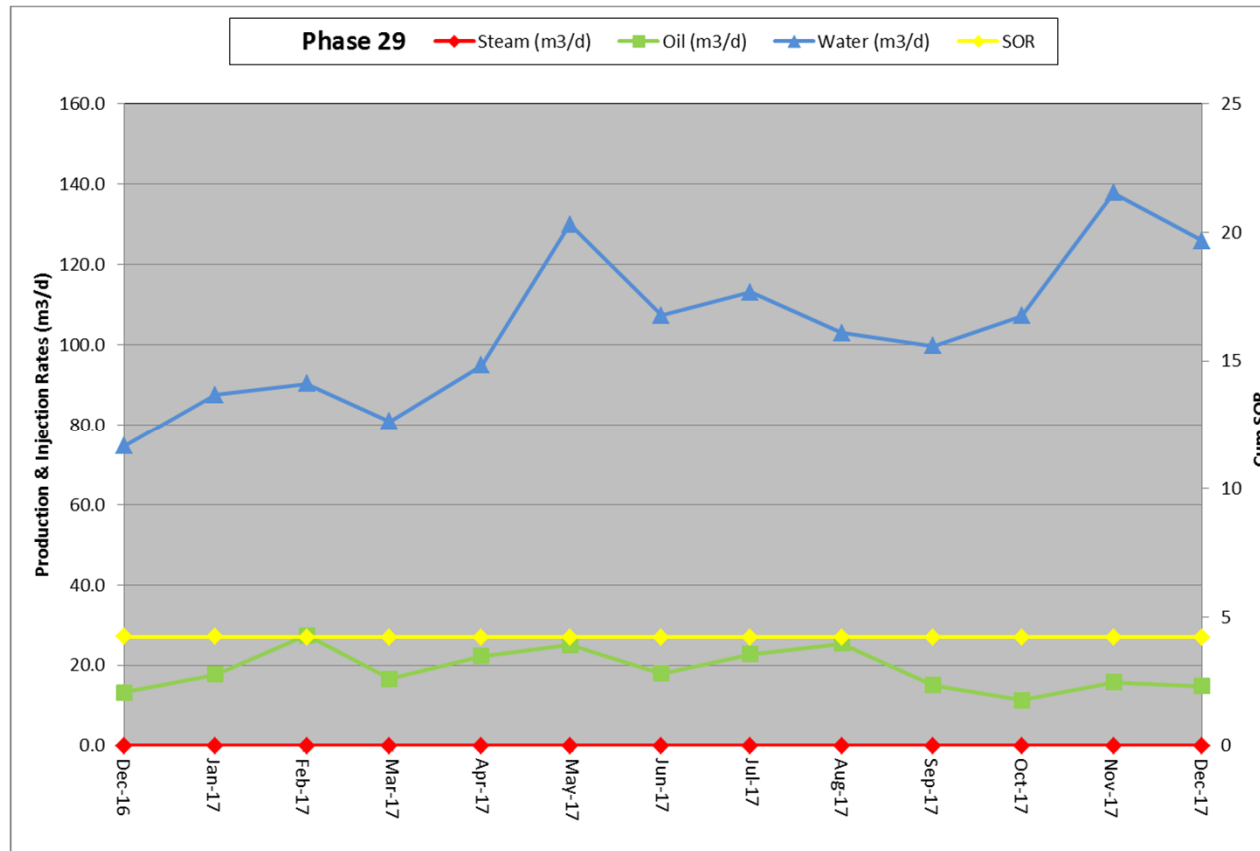
Primrose Pad Plots – AER Review for 2017



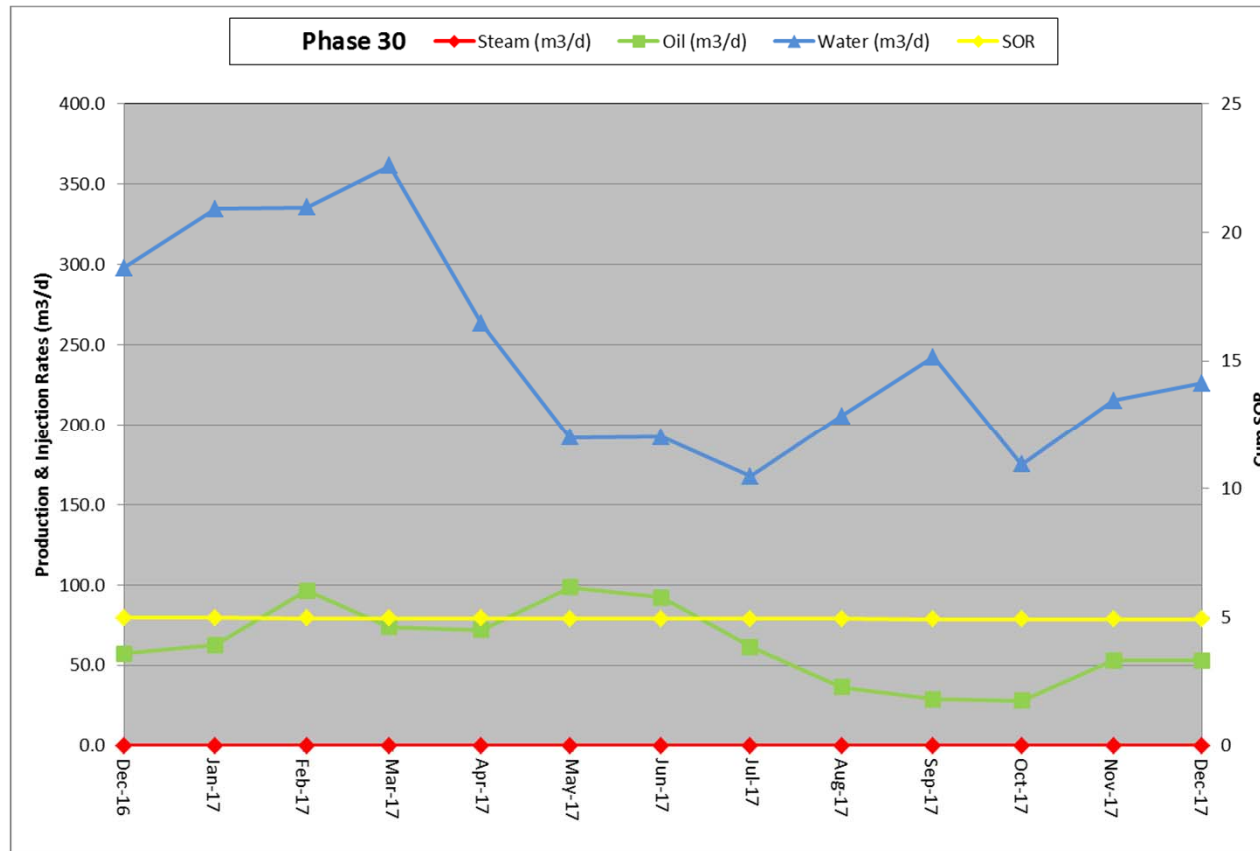
Primrose Pad Plots – AER Review for 2017



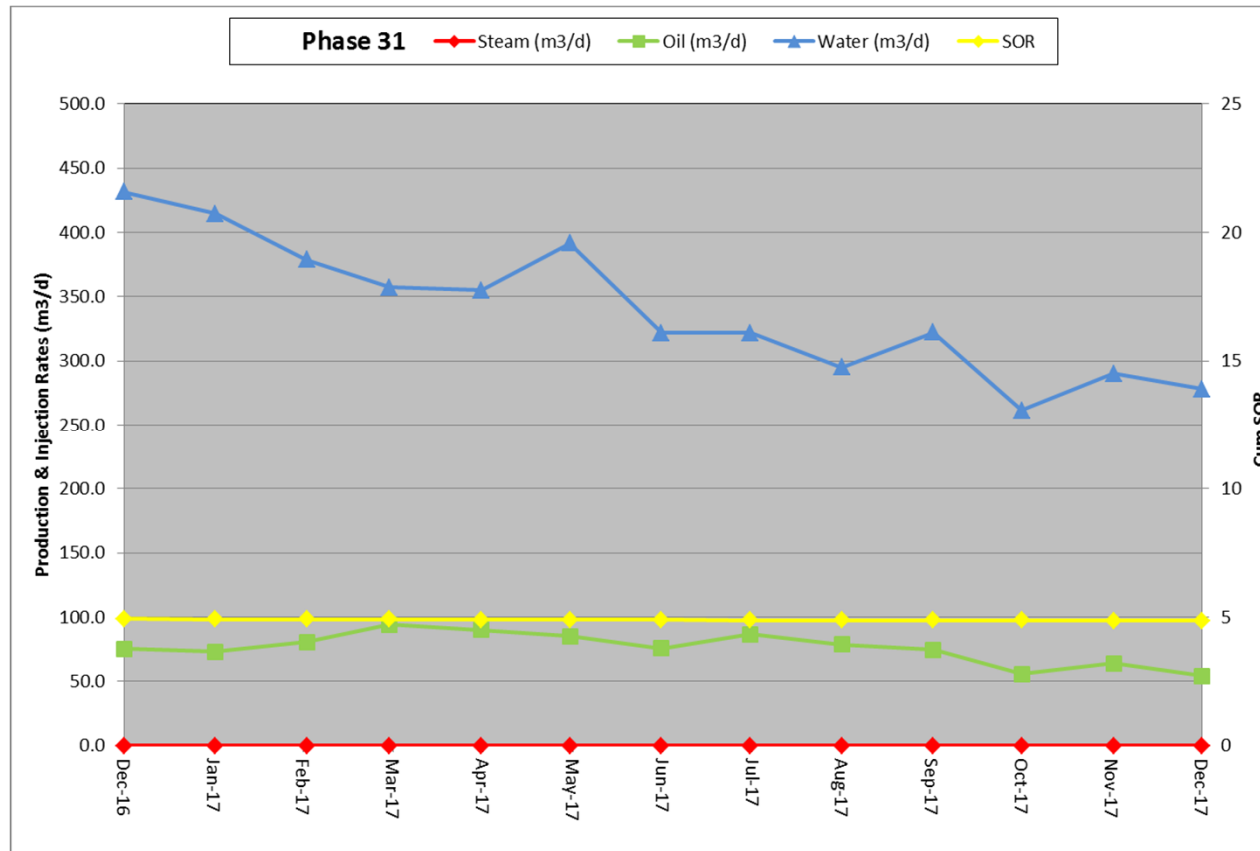
Primrose Pad Plots – AER Review for 2017



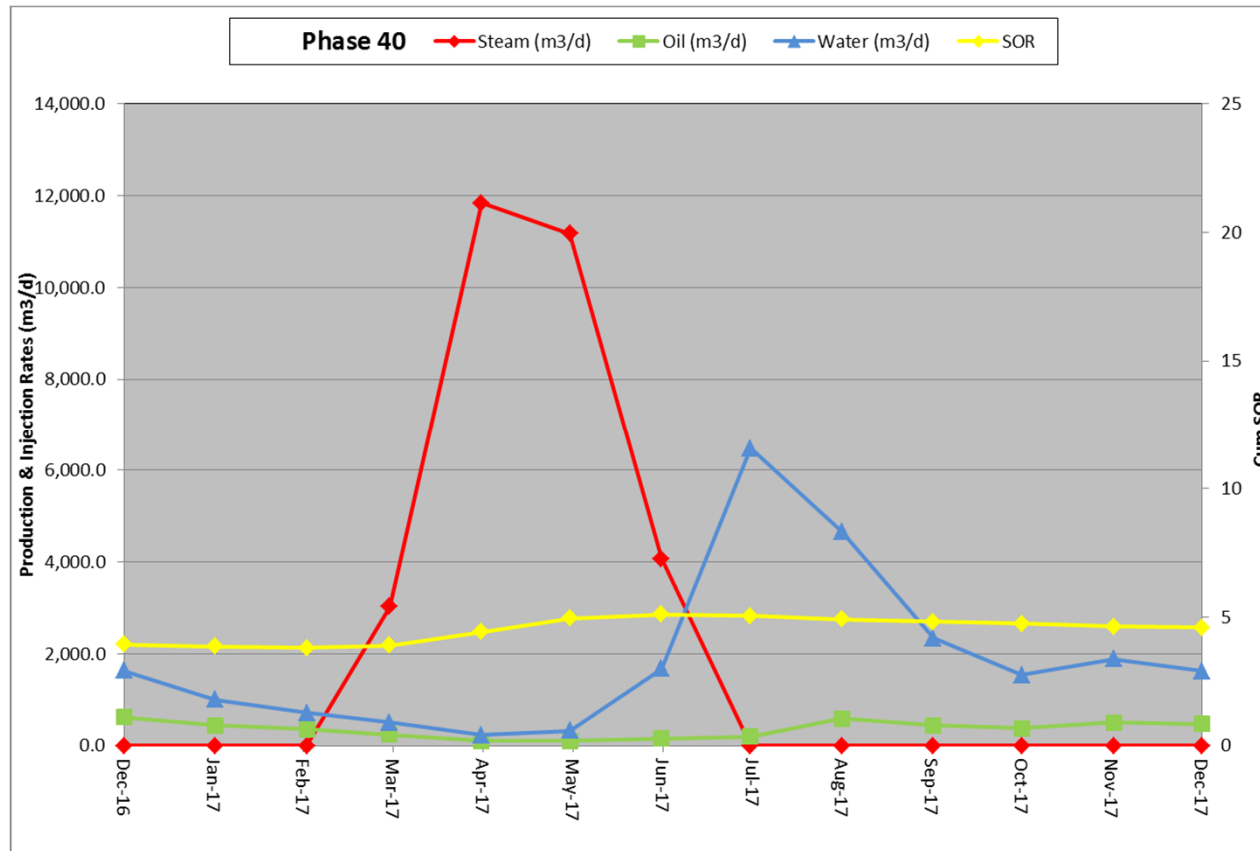
Primrose Pad Plots – AER Review for 2017



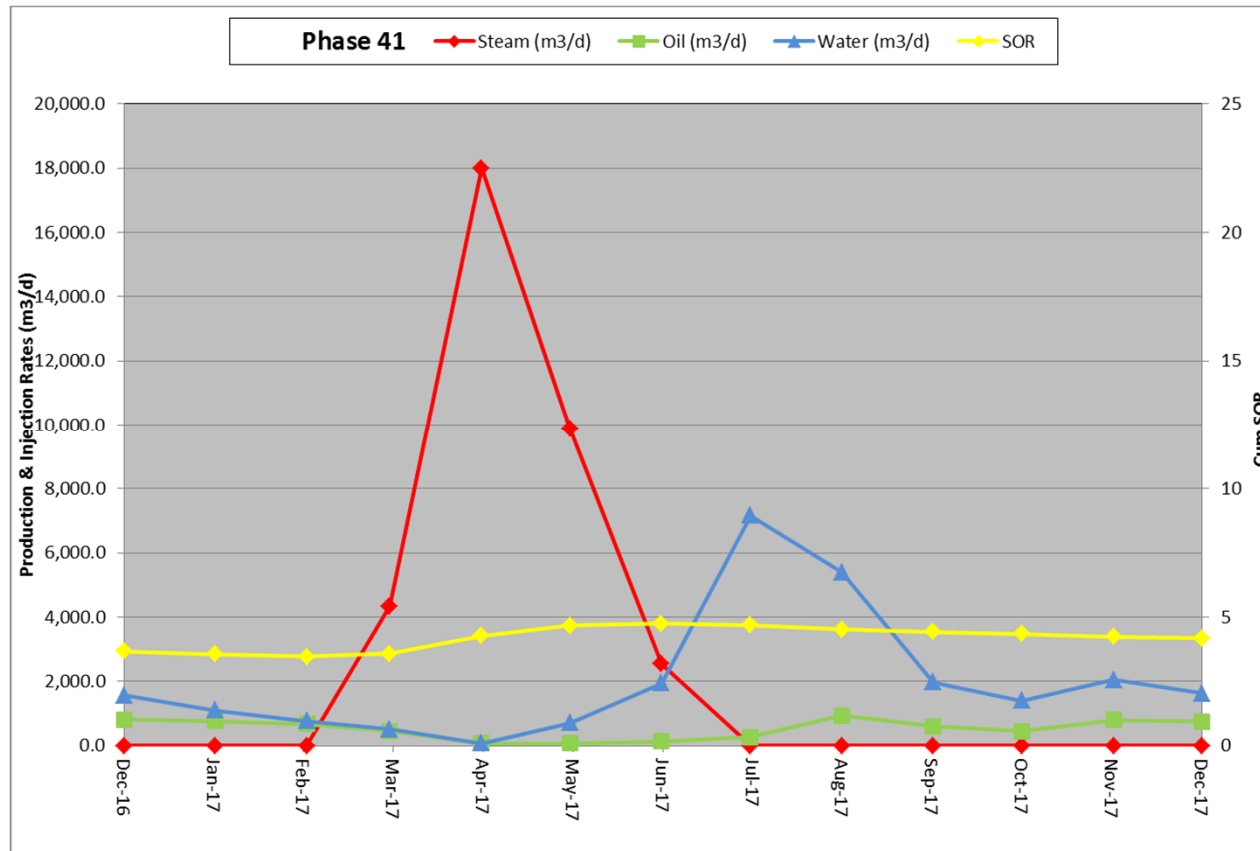
Primrose Pad Plots – AER Review for 2017



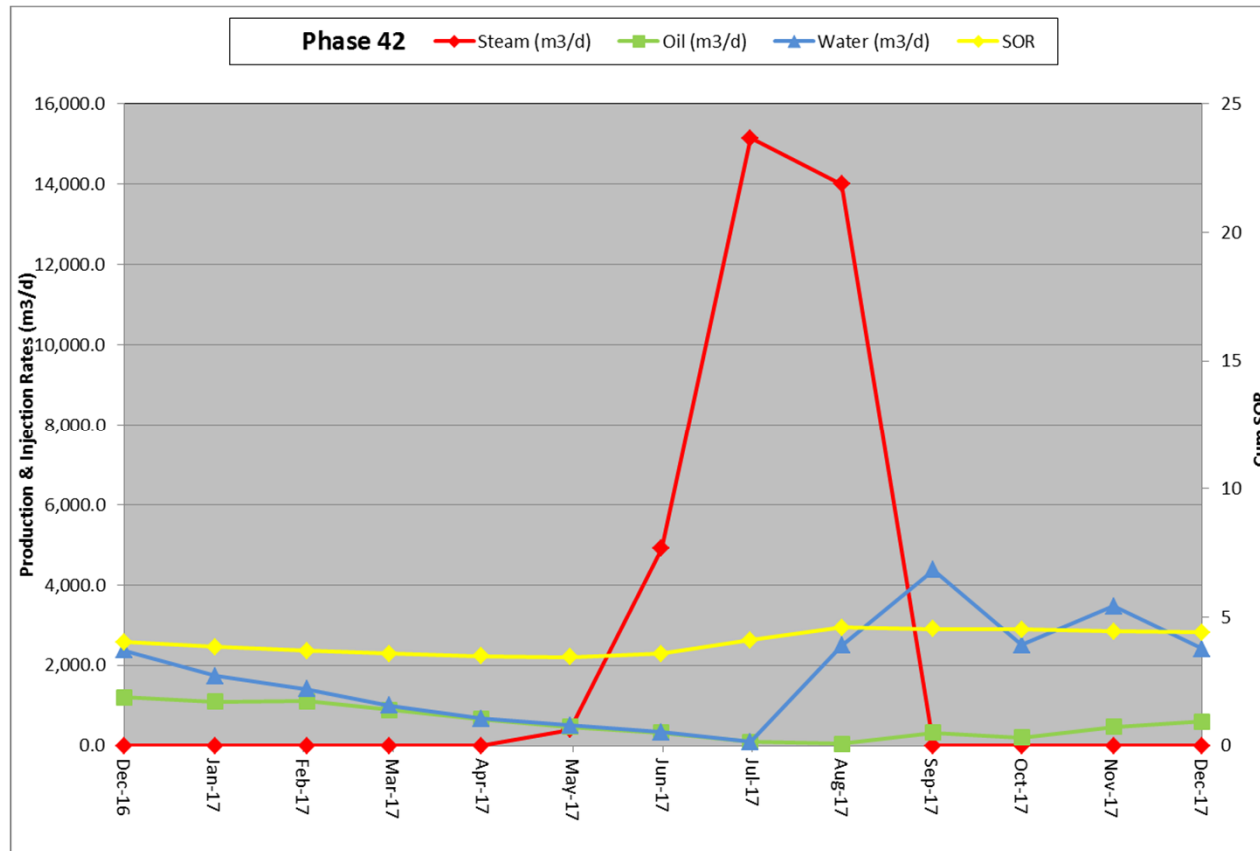
Primrose Pad Plots – AER Review for 2017



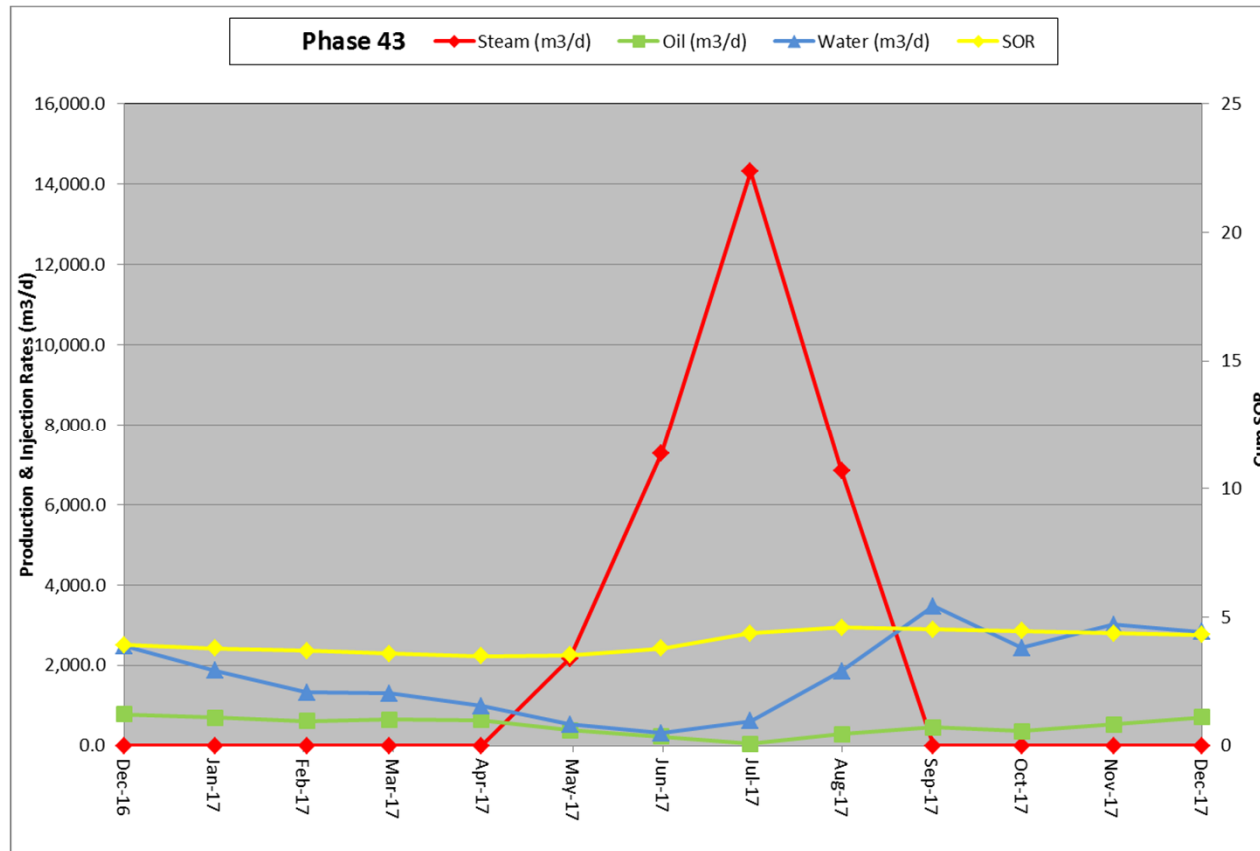
Primrose Pad Plots – AER Review for 2017



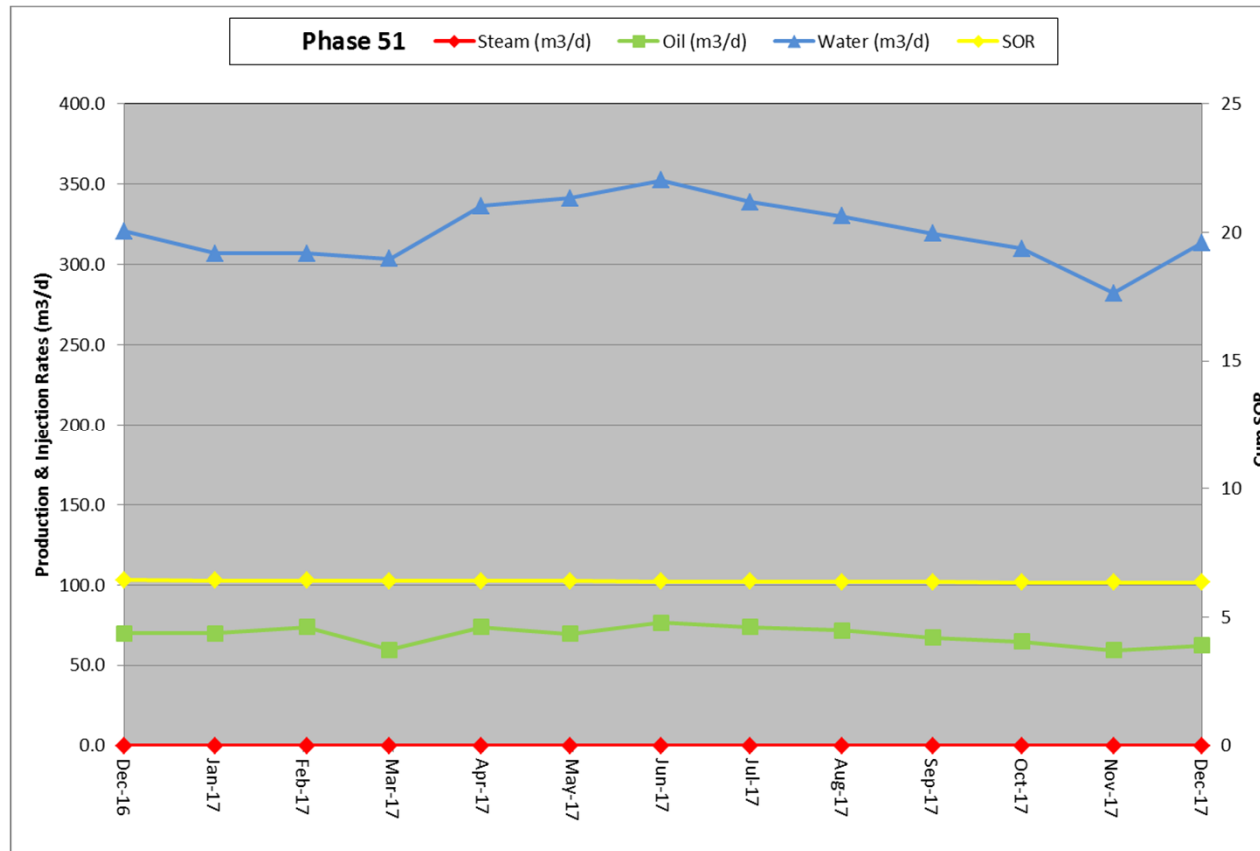
Primrose Pad Plots – AER Review for 2017



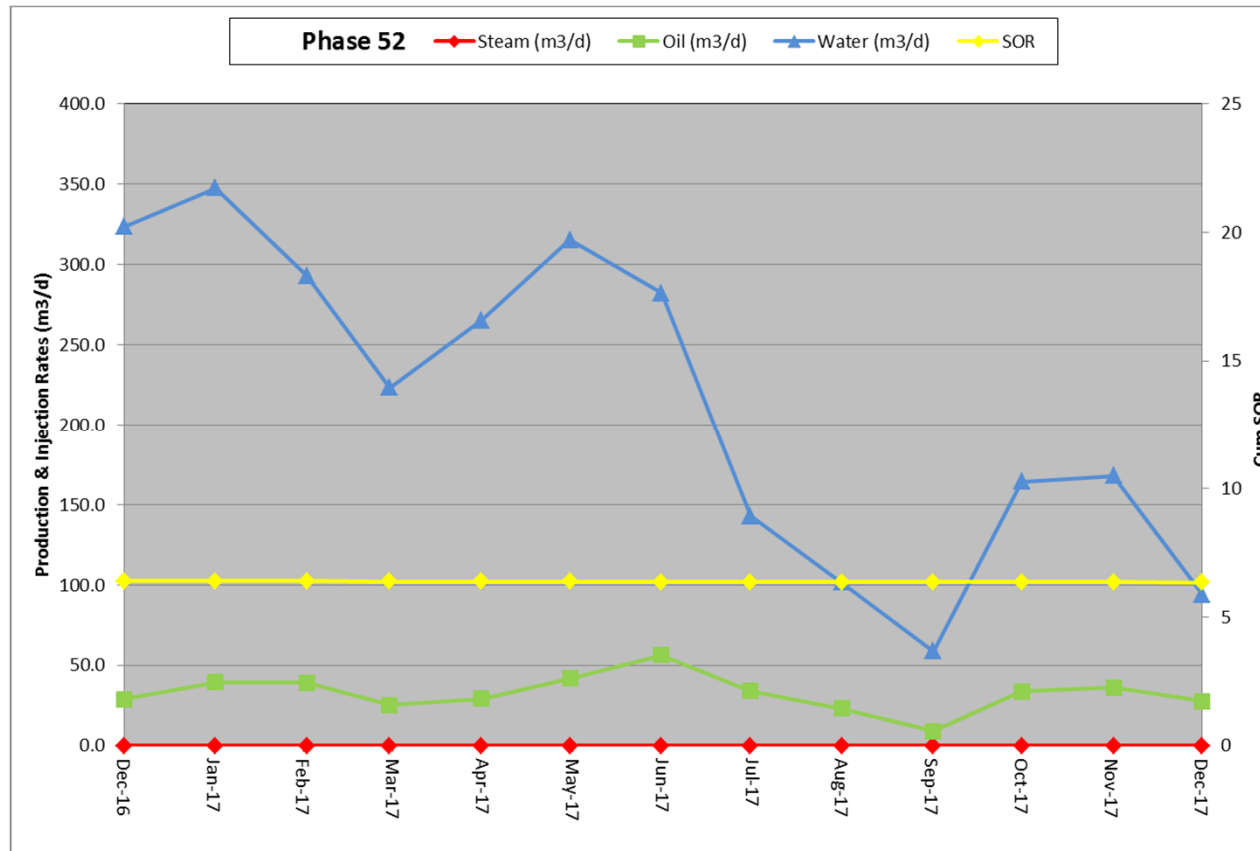
Primrose Pad Plots – AER Review for 2017



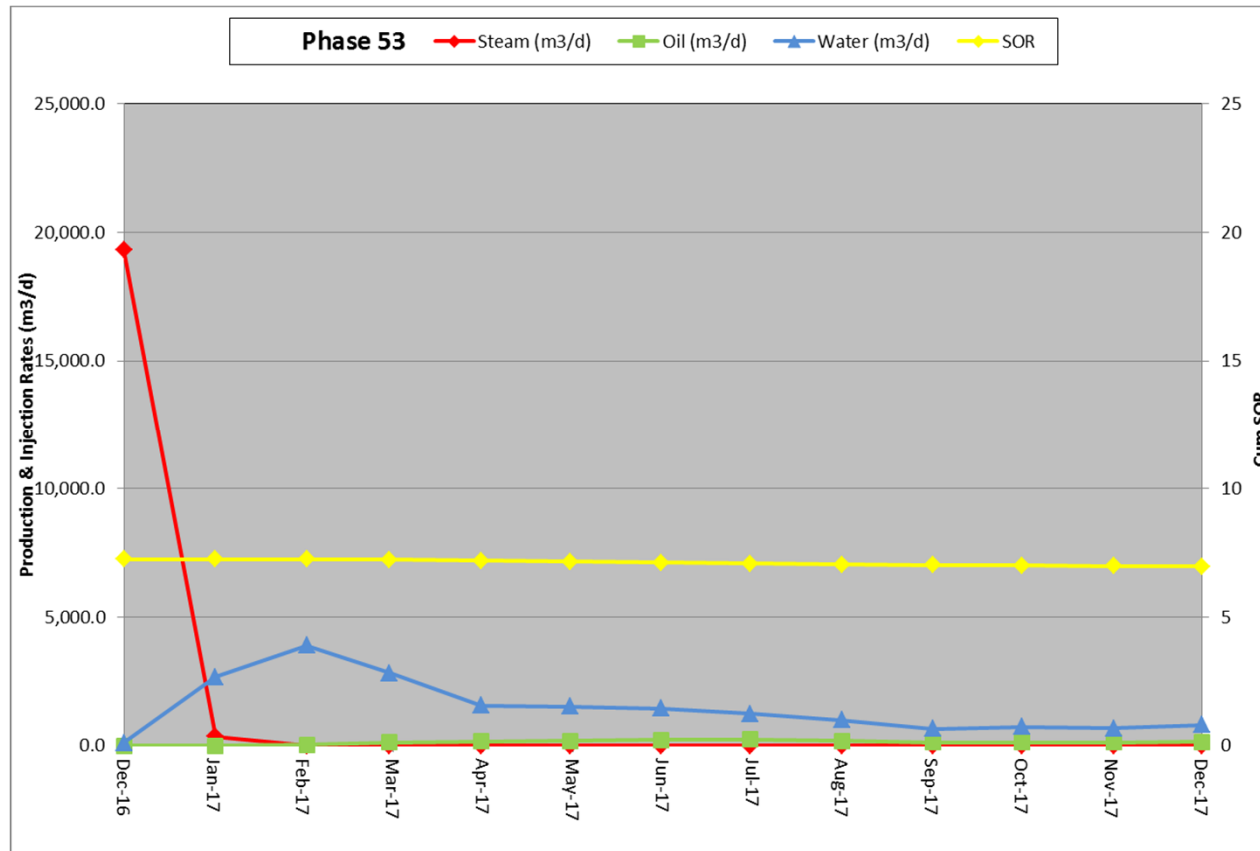
Primrose Pad Plots – AER Review for 2017



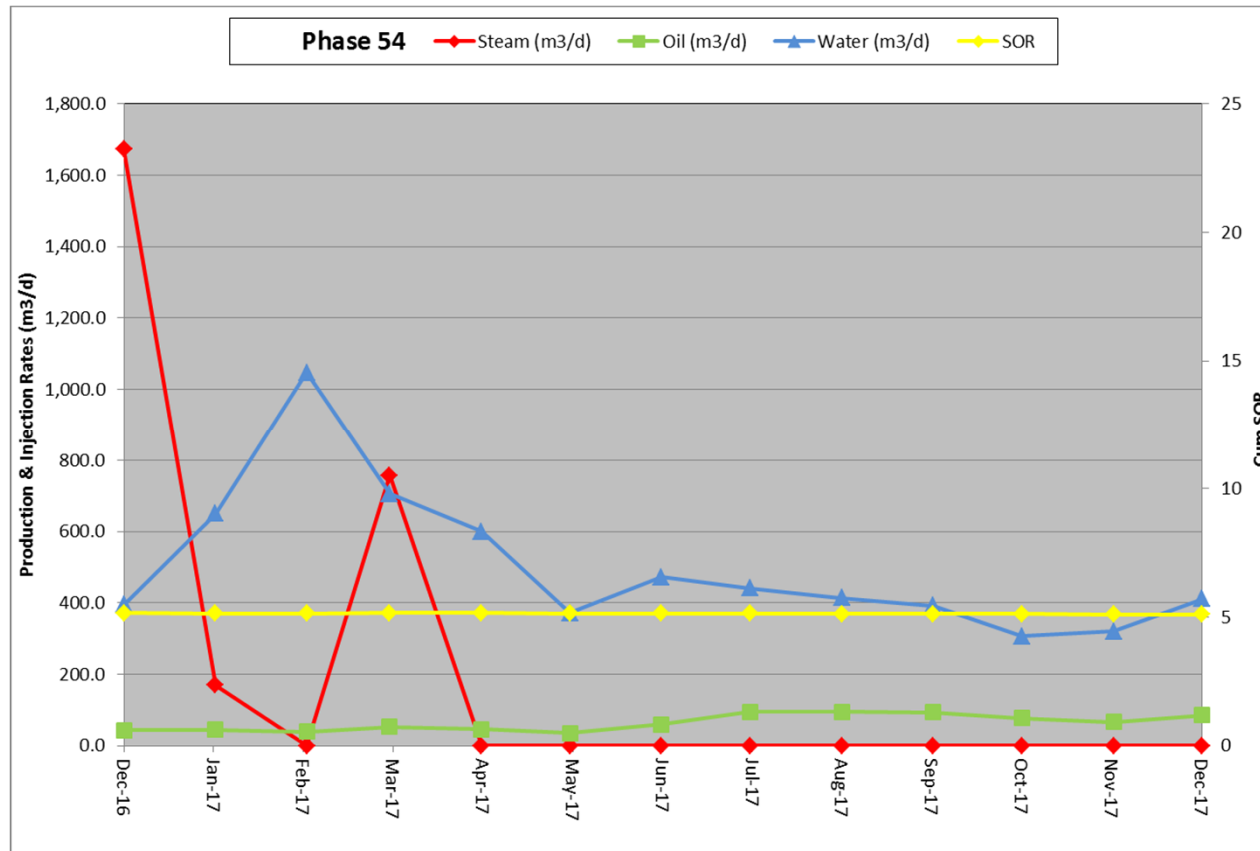
Primrose Pad Plots – AER Review for 2017



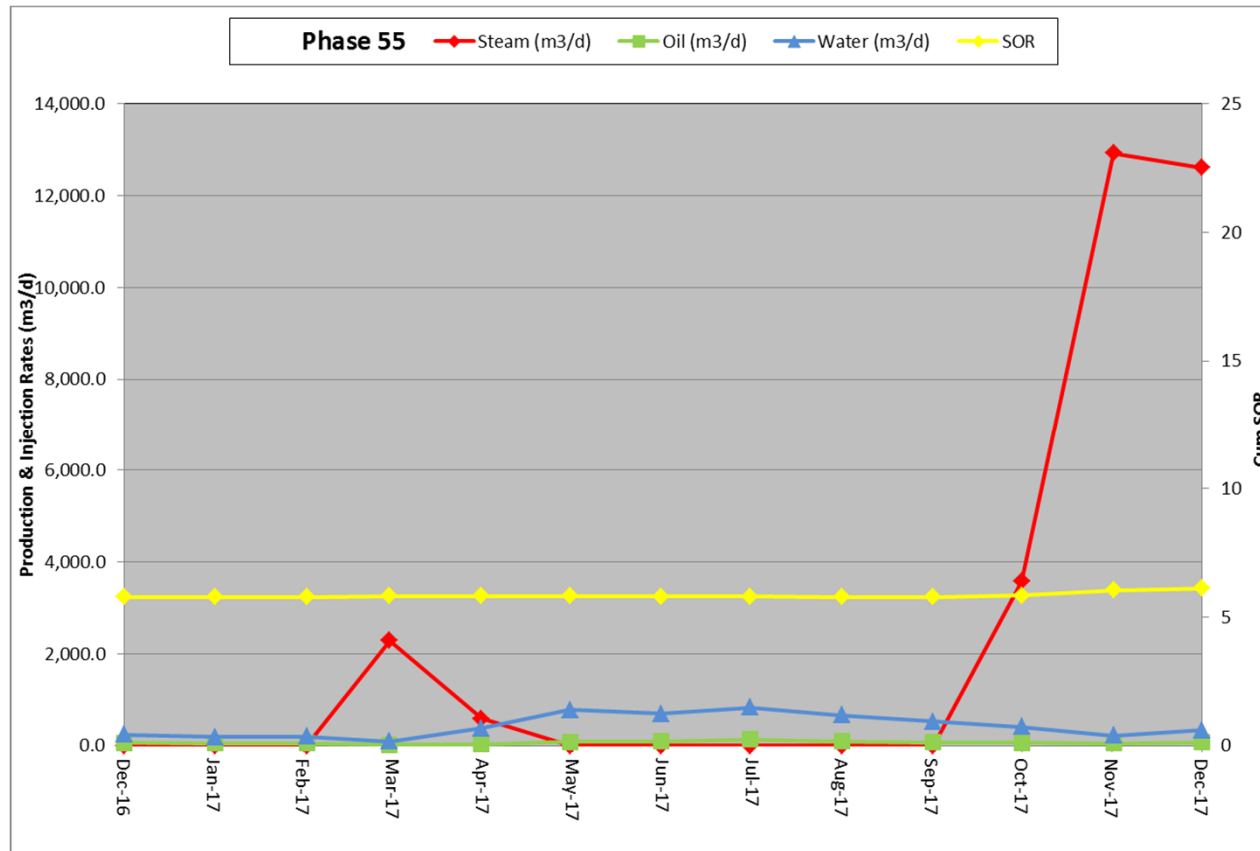
Primrose Pad Plots – AER Review for 2017



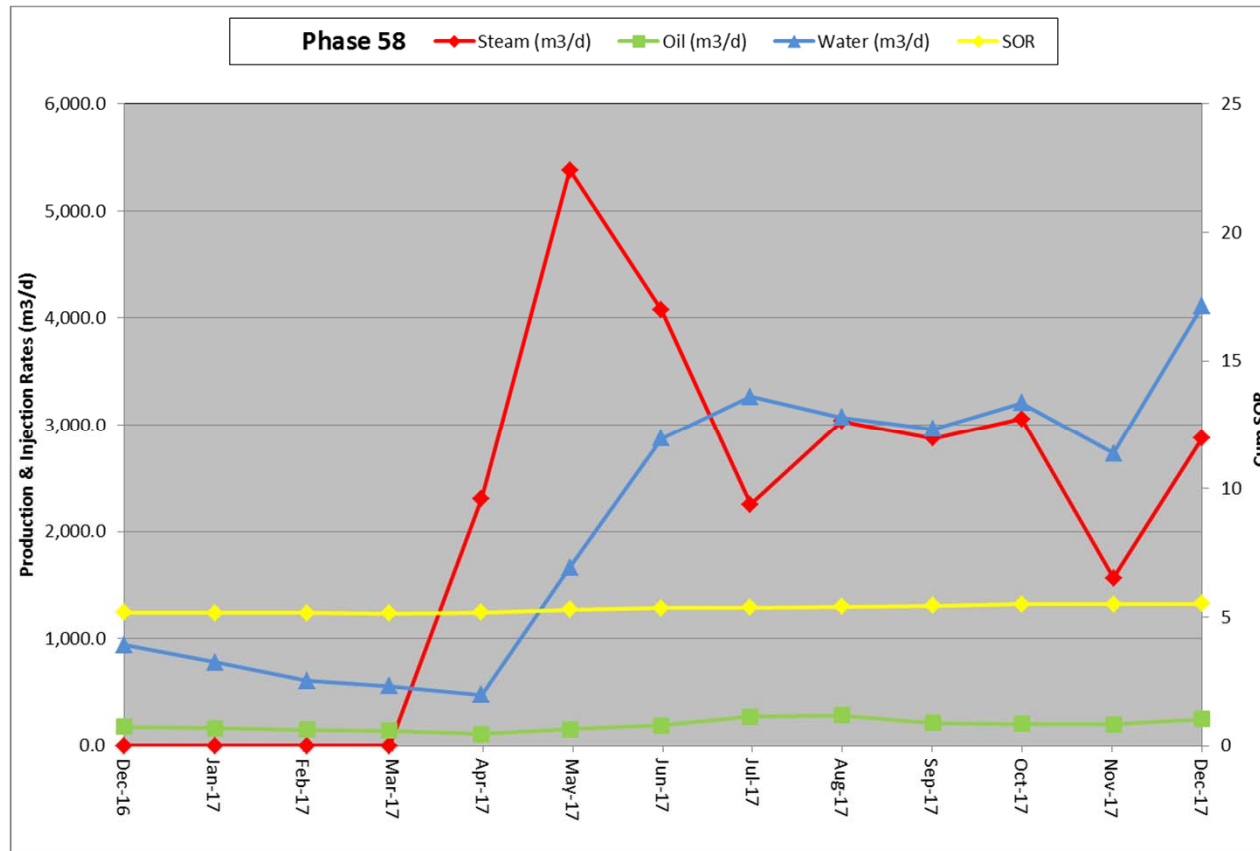
Primrose Pad Plots – AER Review for 2017



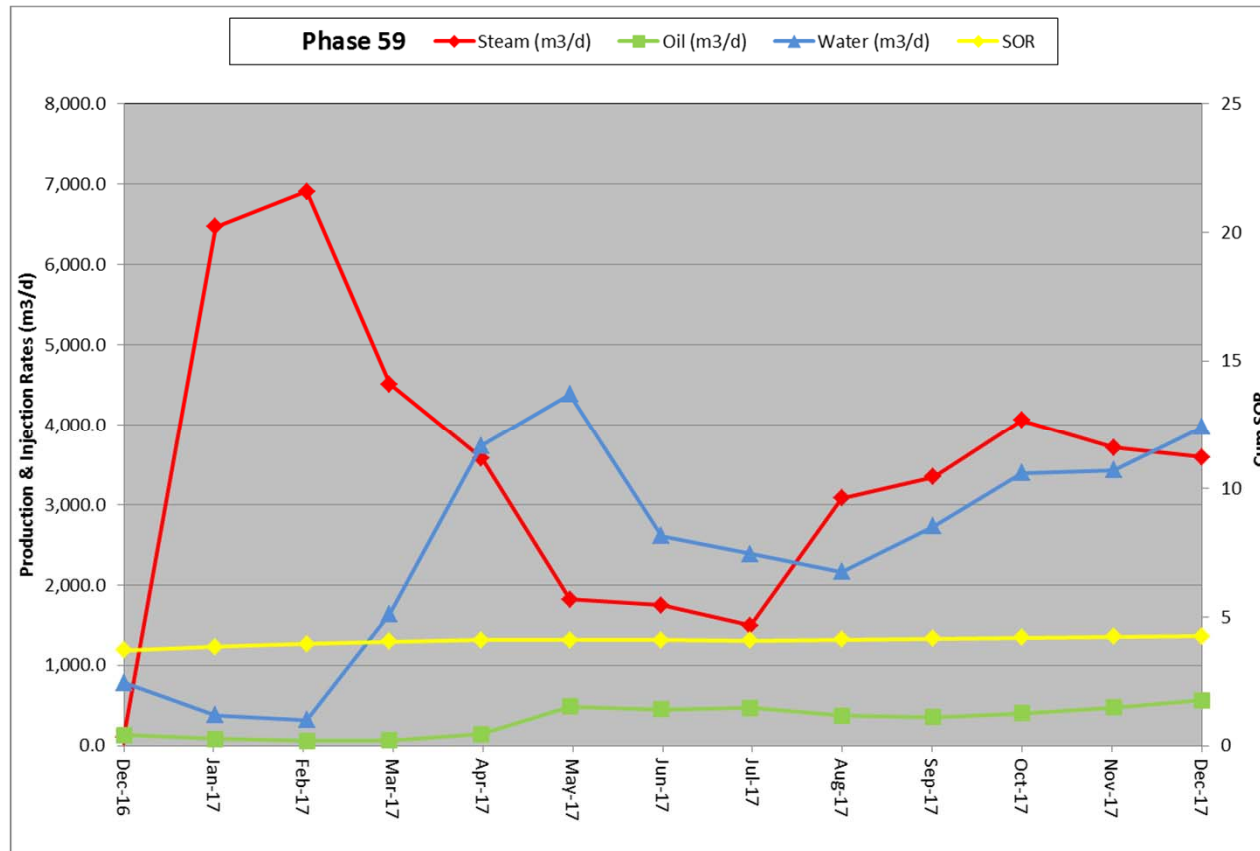
Primrose Pad Plots – AER Review for 2017



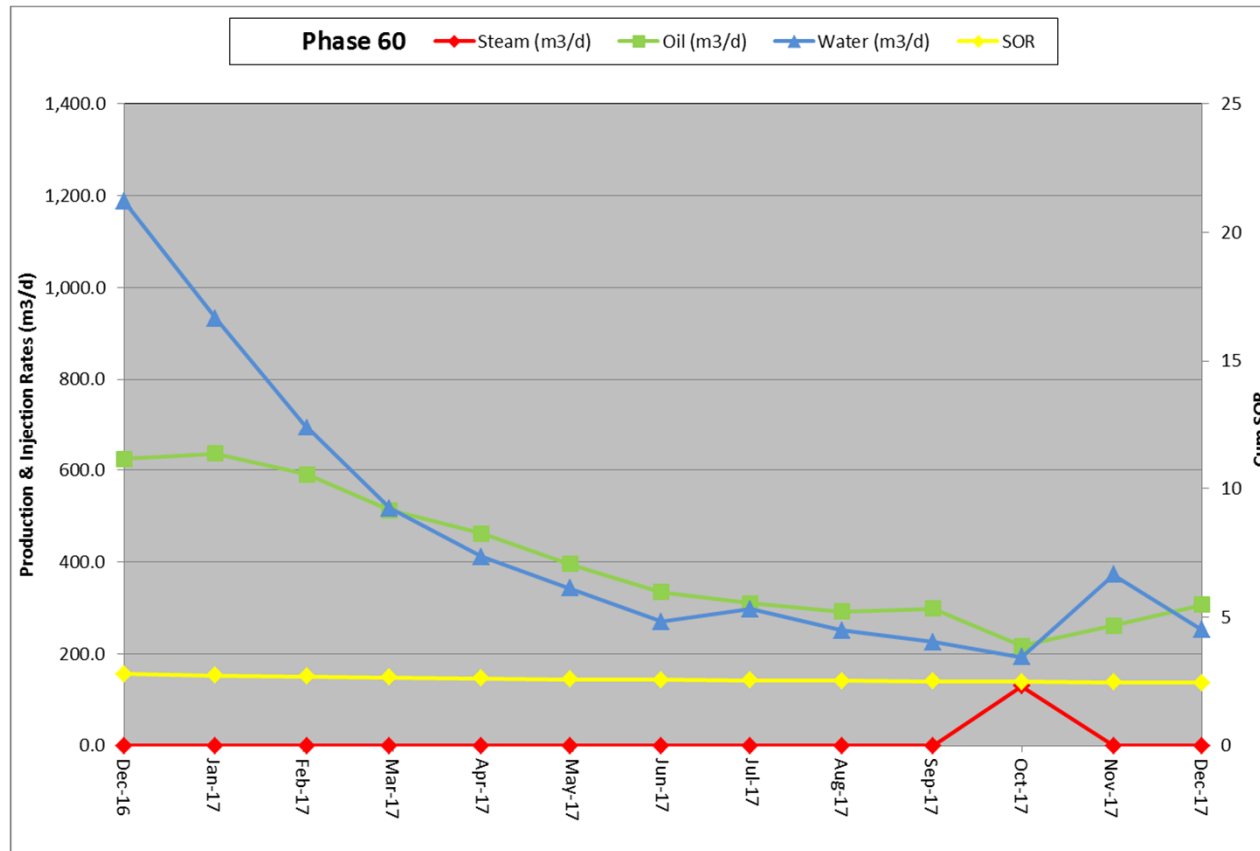
Primrose Pad Plots – AER Review for 2017



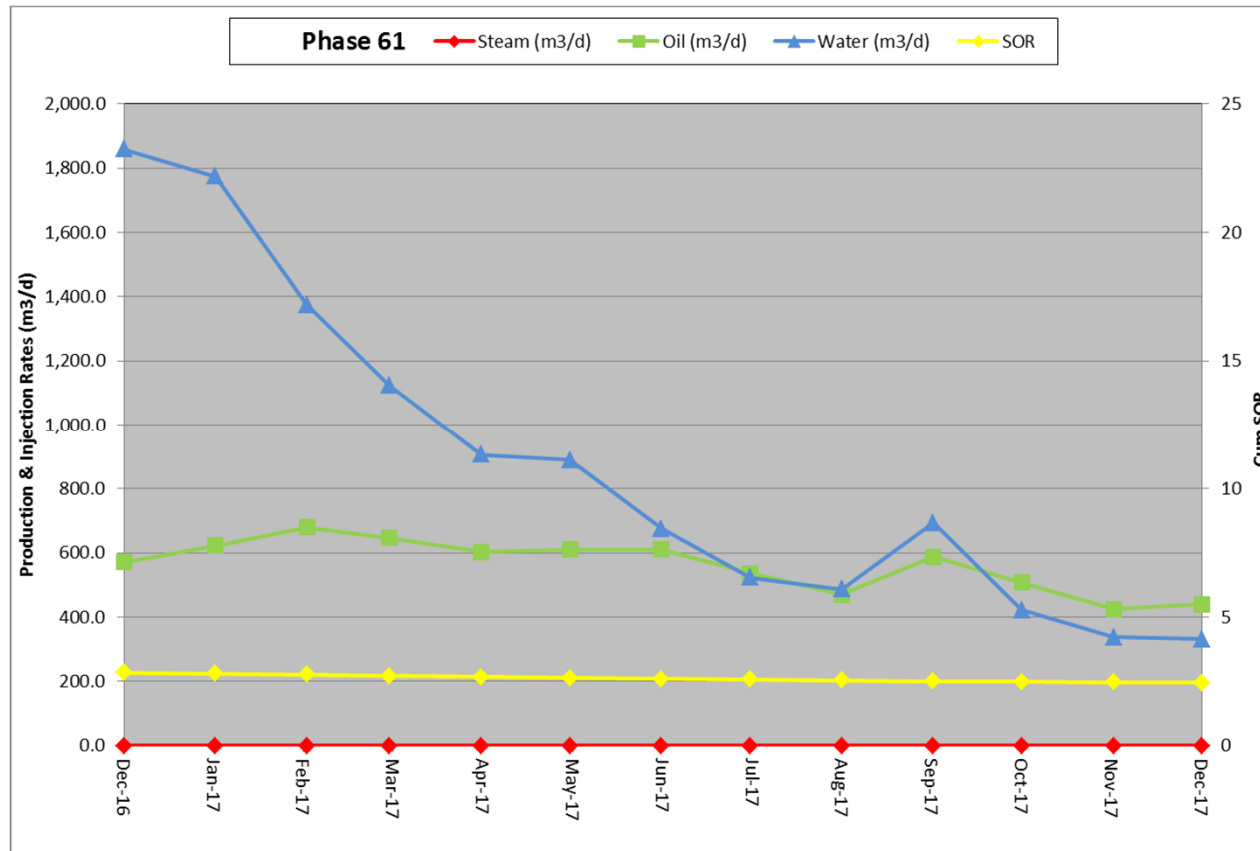
Primrose Pad Plots – AER Review for 2017



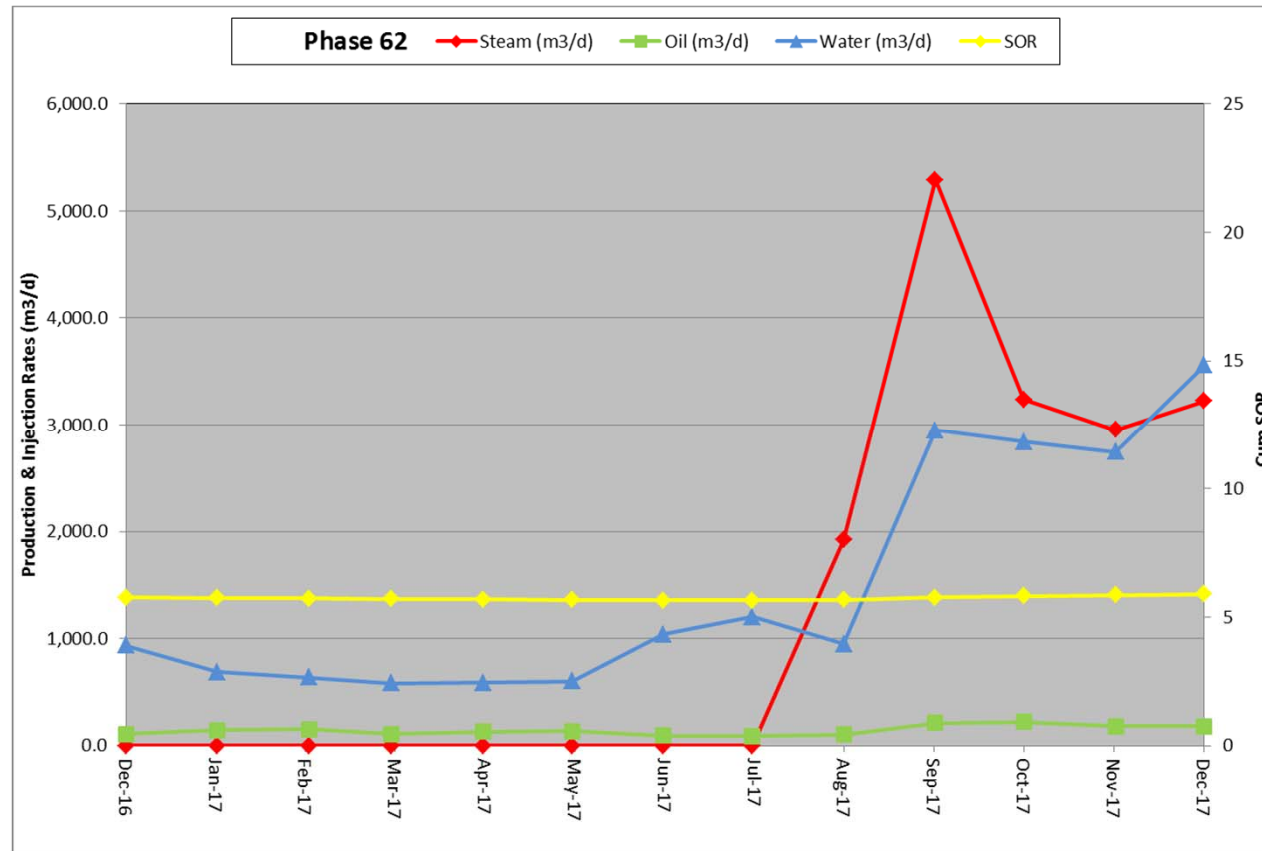
Primrose Pad Plots – AER Review for 2017



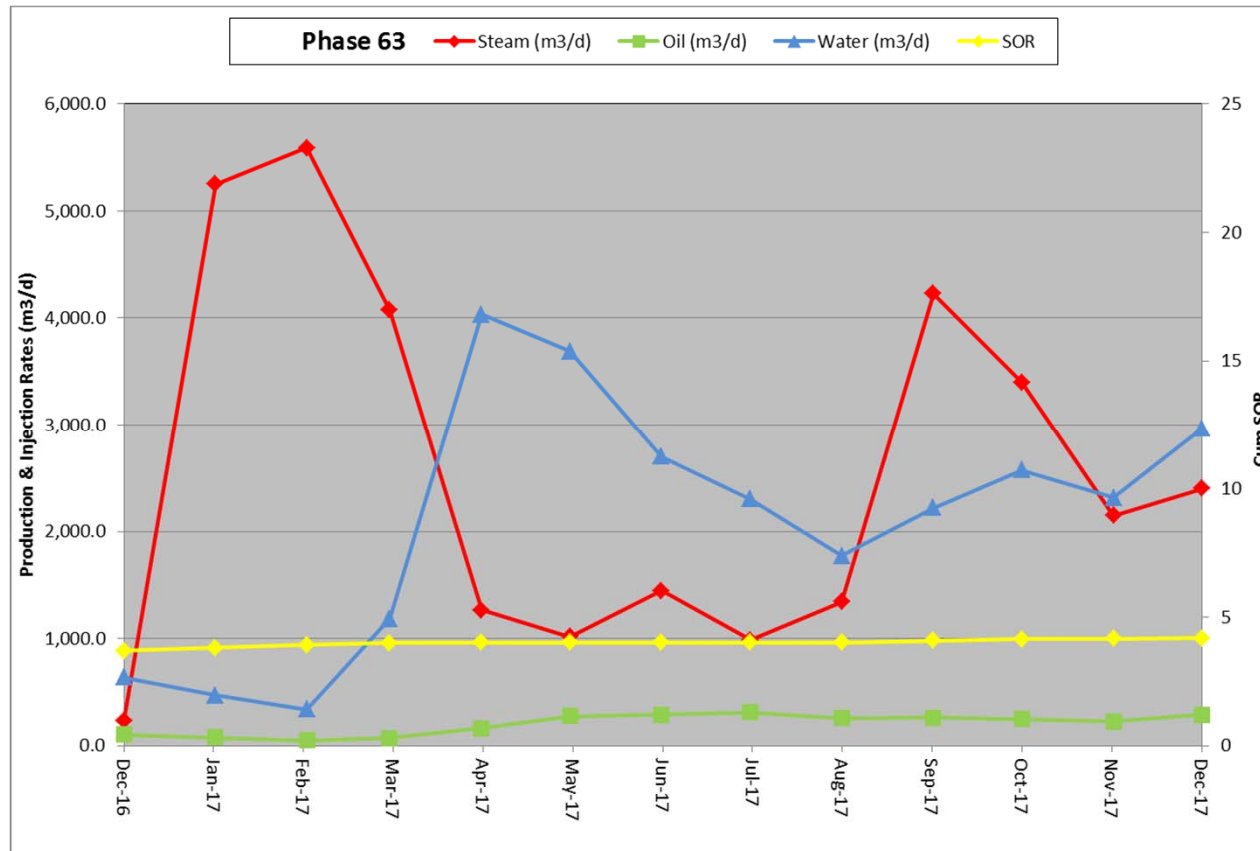
Primrose Pad Plots – AER Review for 2017



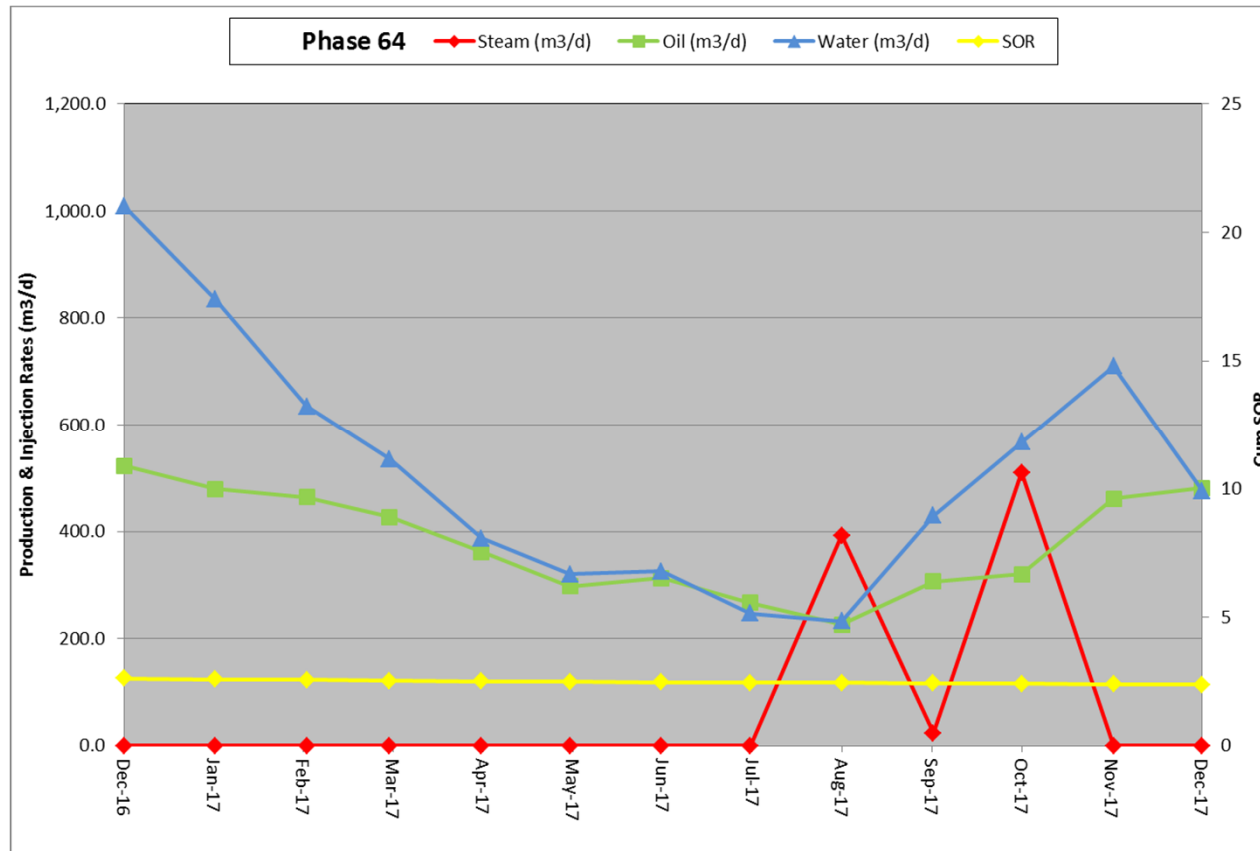
Primrose Pad Plots – AER Review for 2017



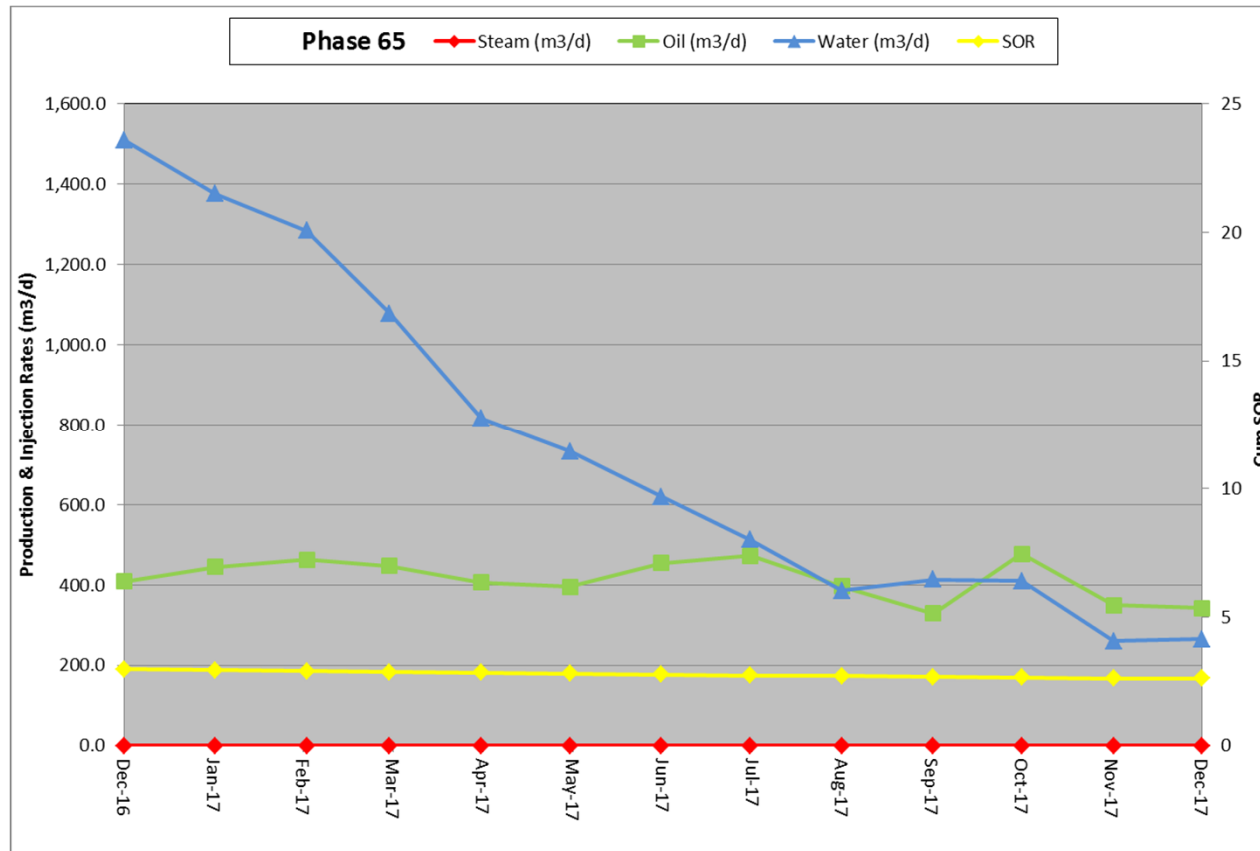
Primrose Pad Plots – AER Review for 2017



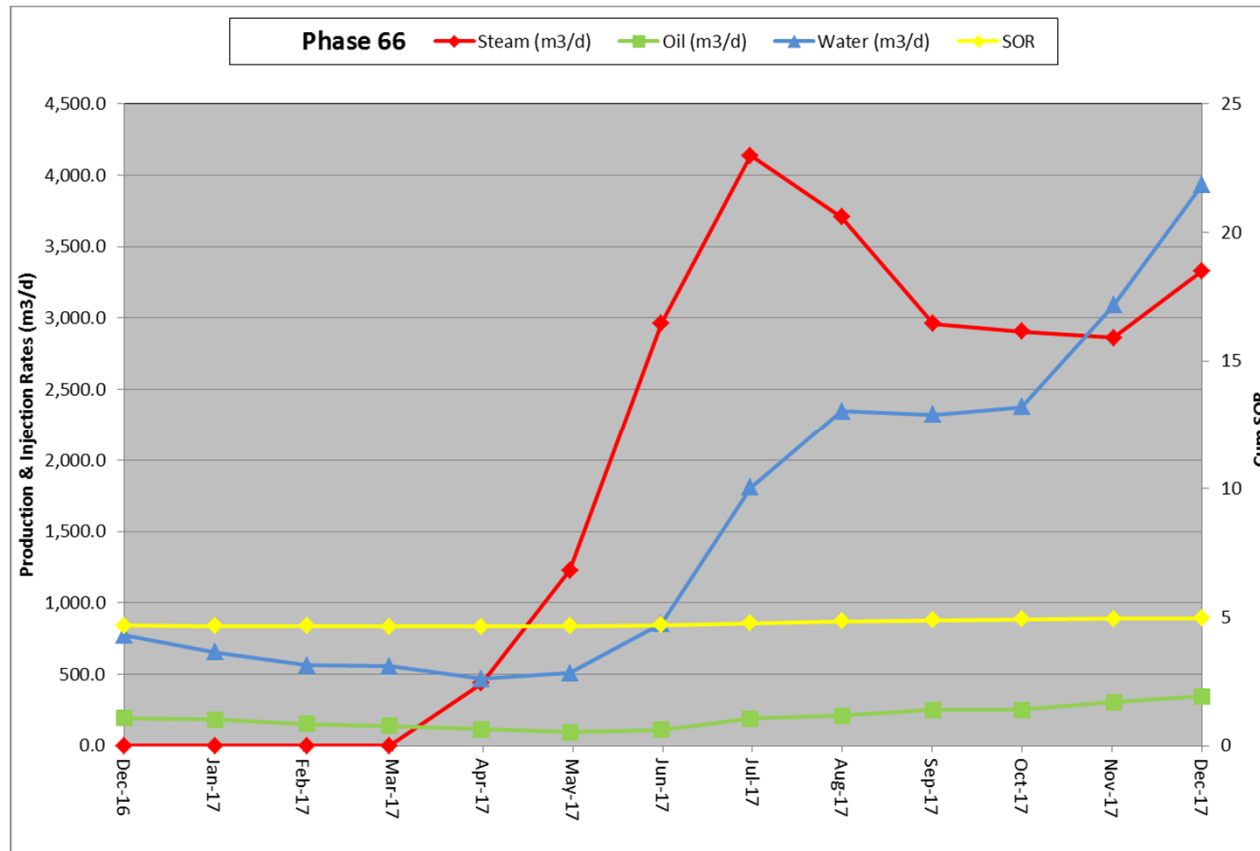
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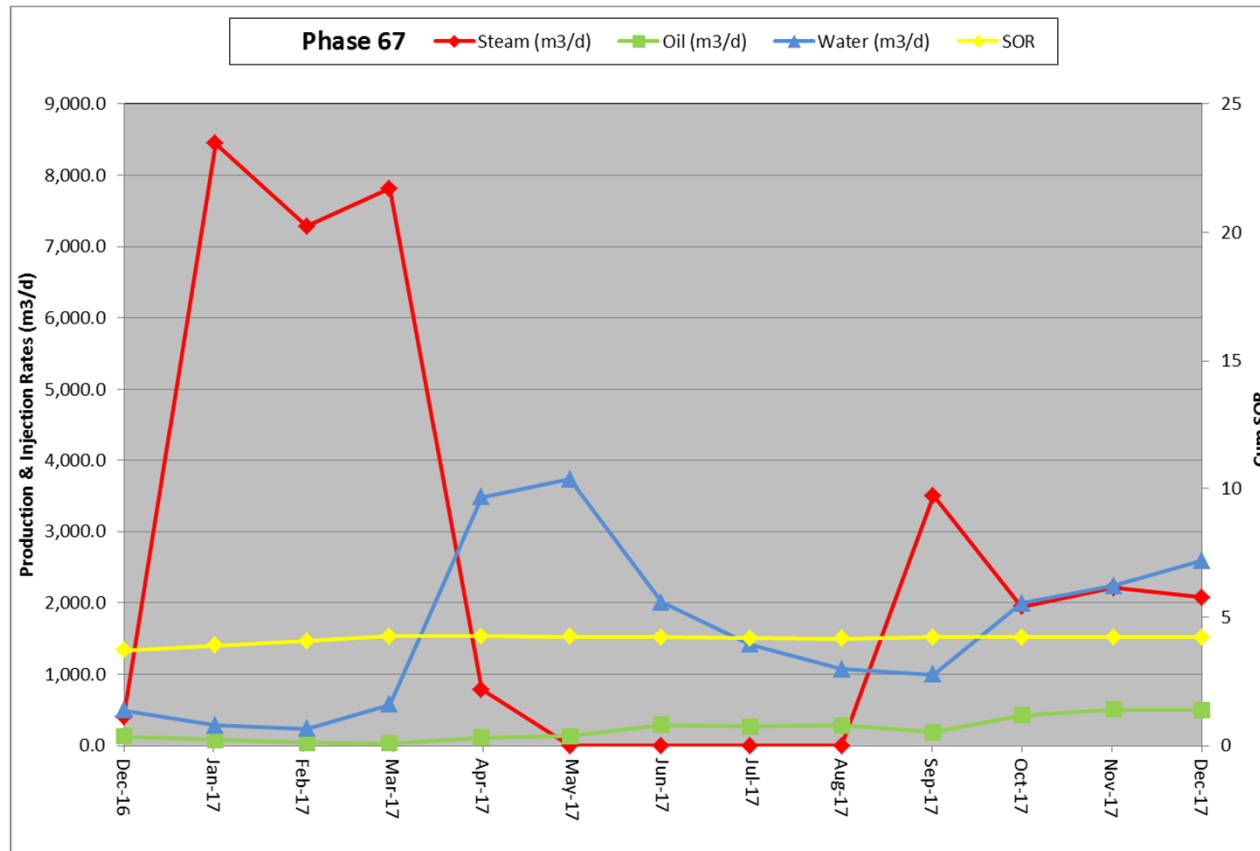
Primrose Pad Plots – AER Review for 2017



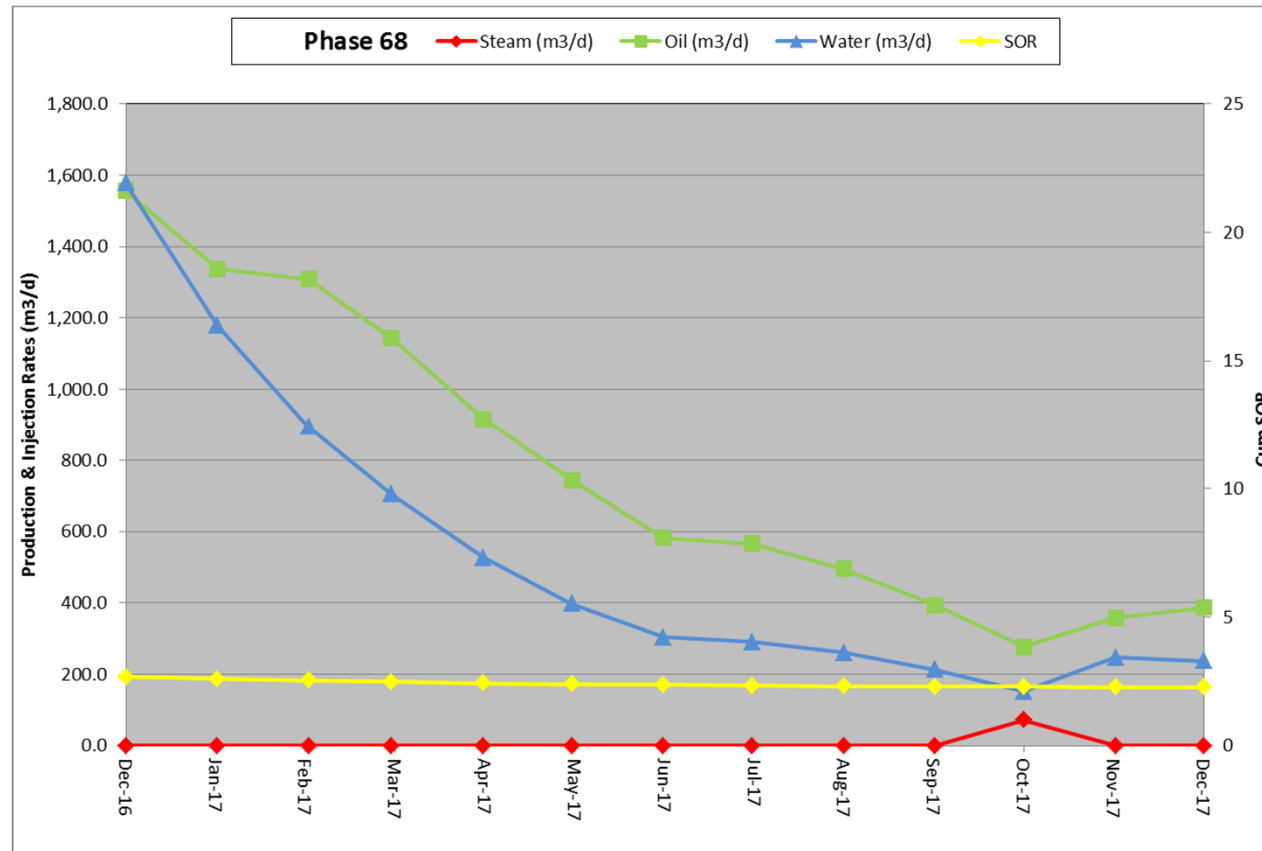
Primrose Pad Plots – AER Review for 2017



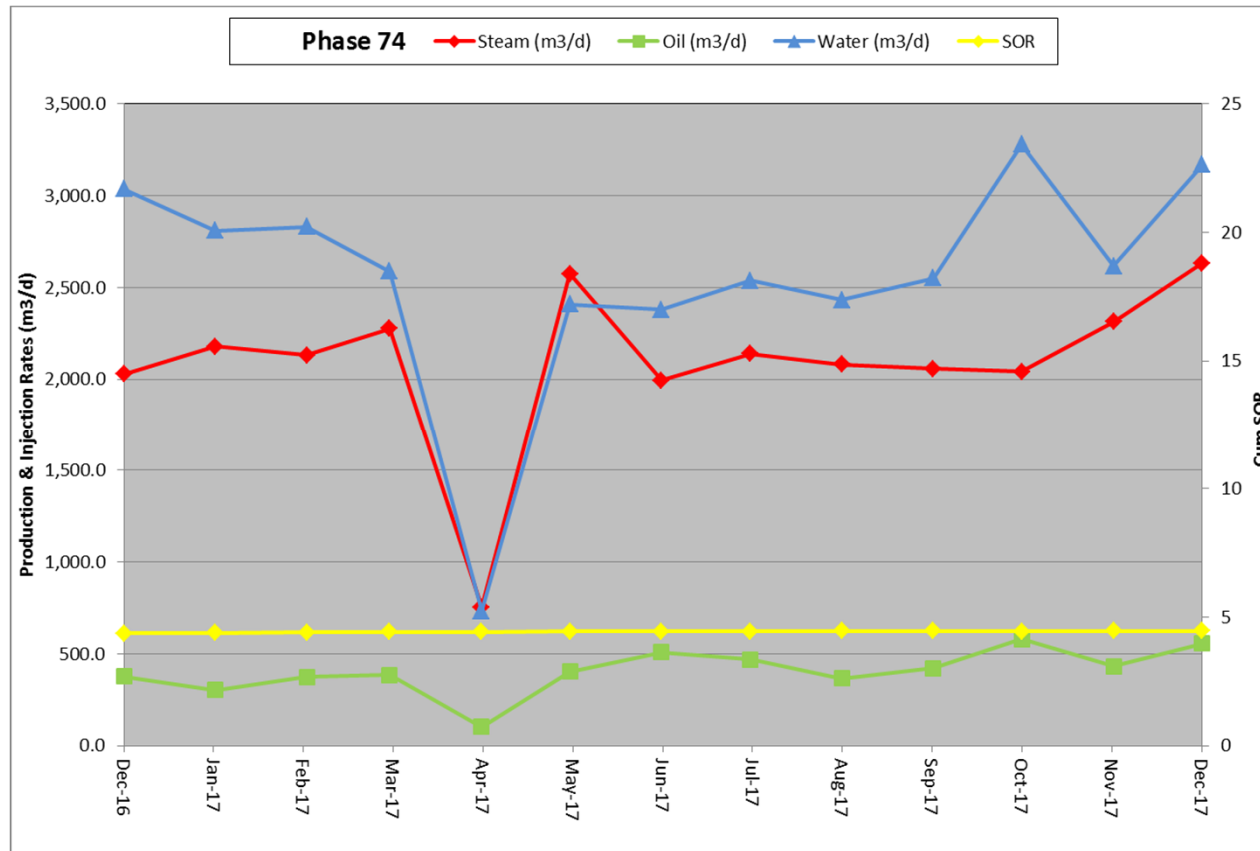
Primrose Pad Plots – AER Review for 2017



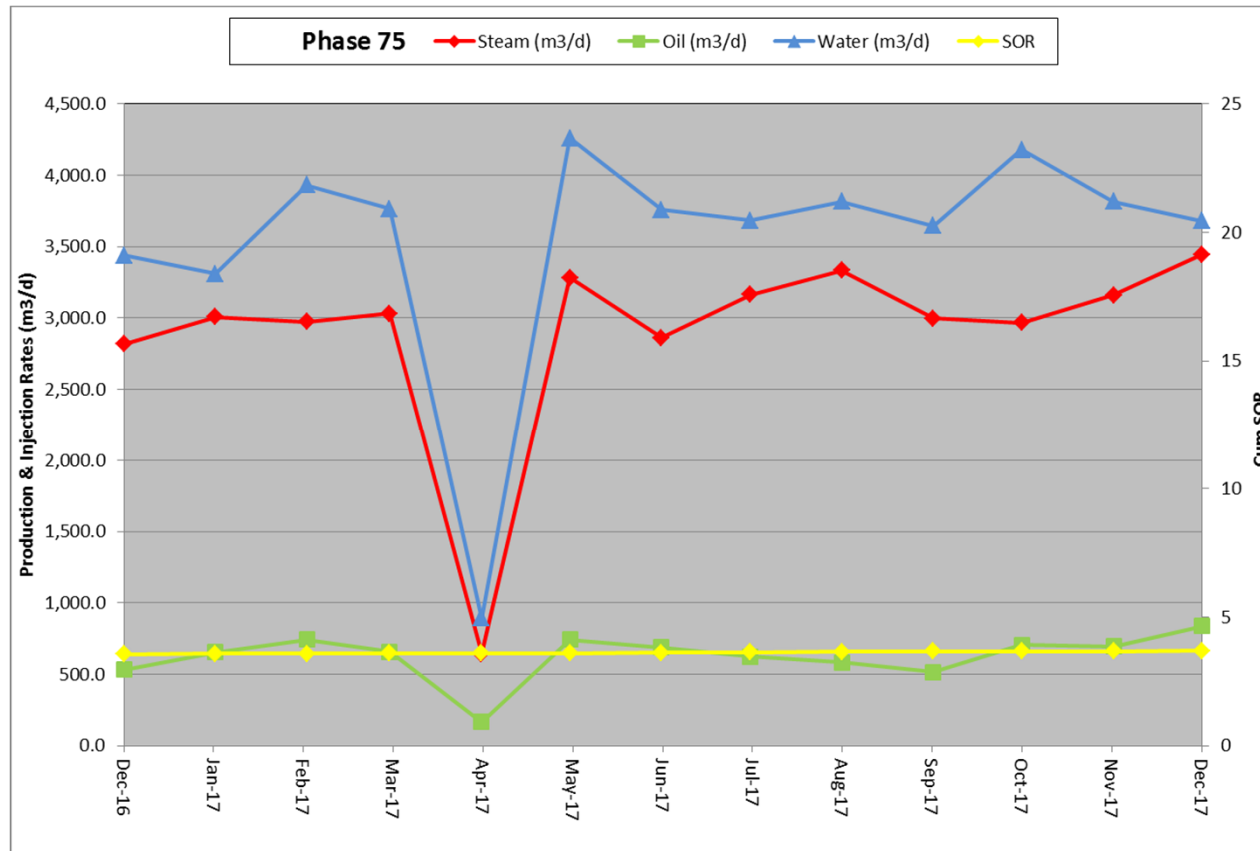
Primrose Pad Plots – AER Review for 2017



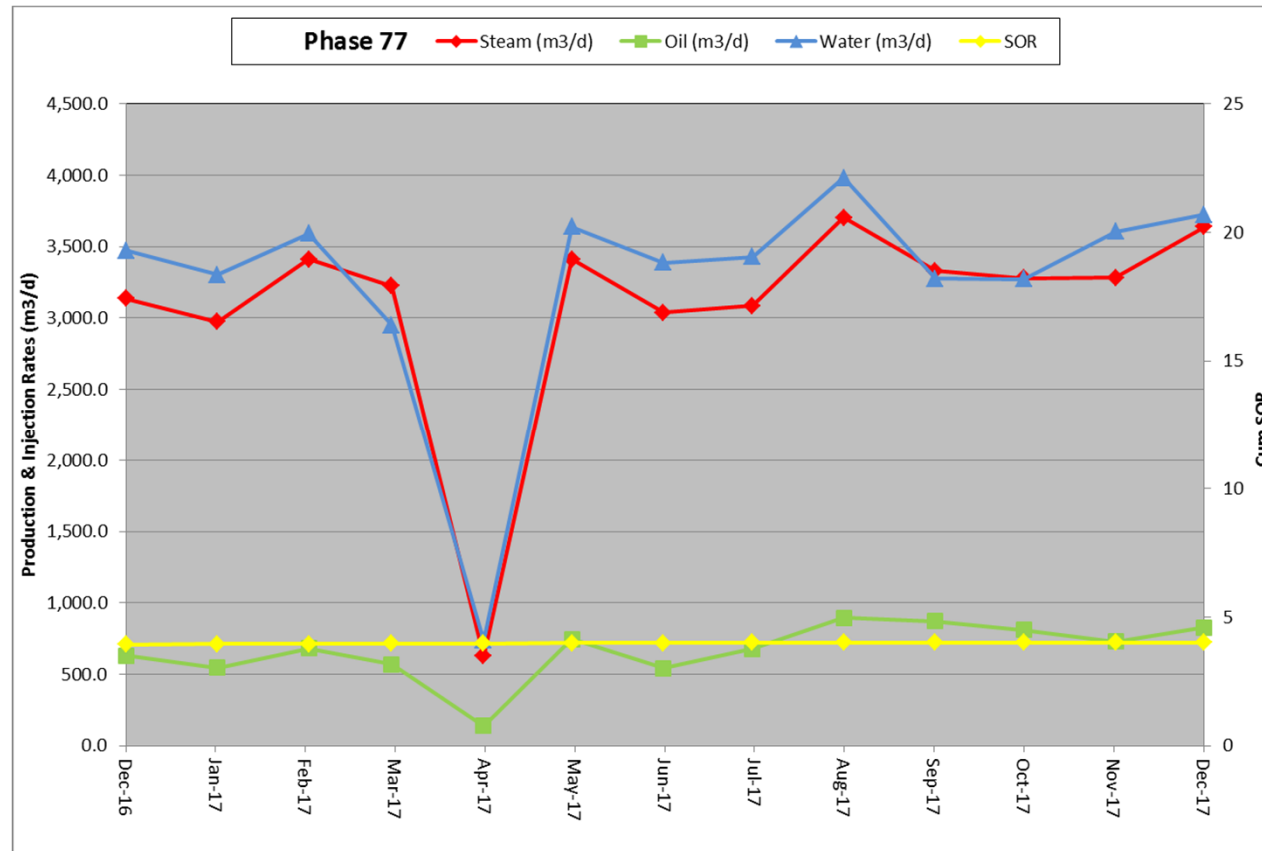
Primrose Pad Plots – AER Review for 2017



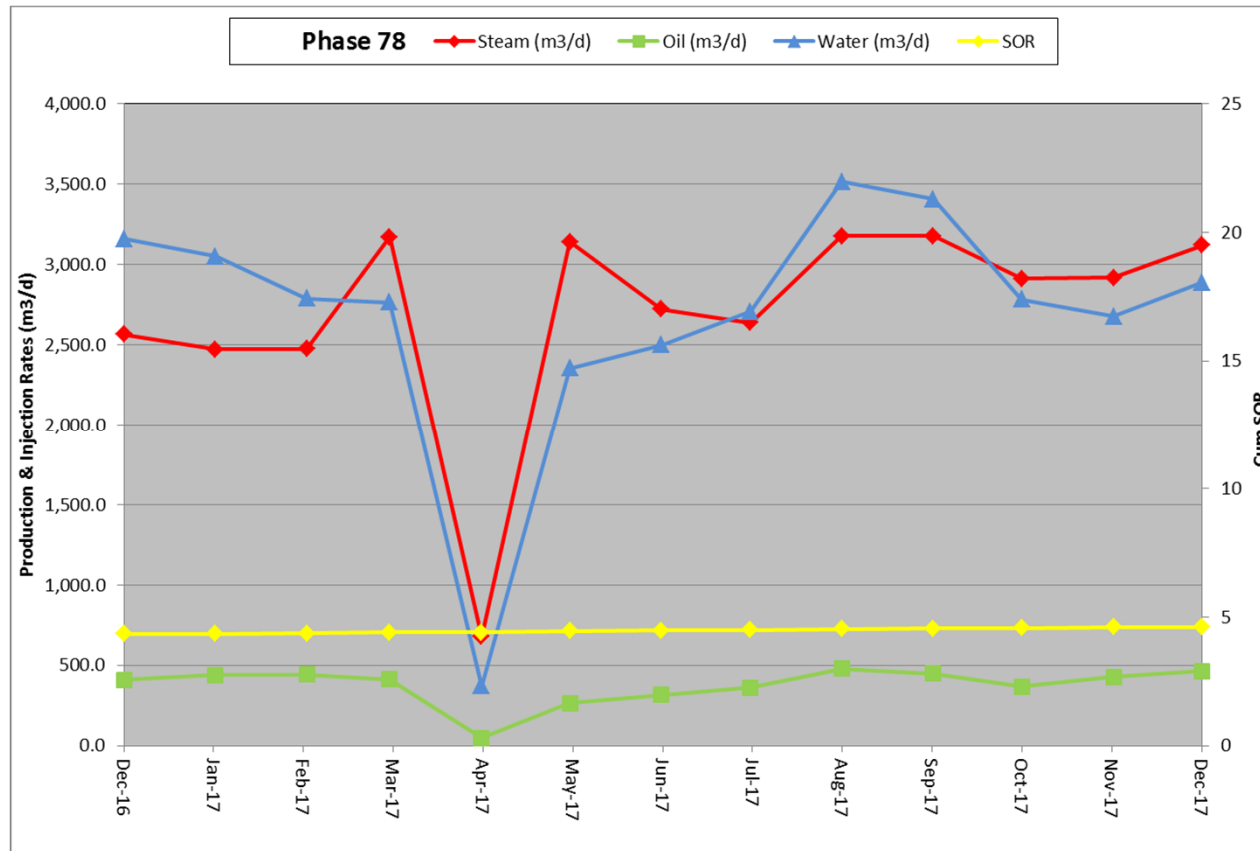
Primrose Pad Plots – AER Review for 2017



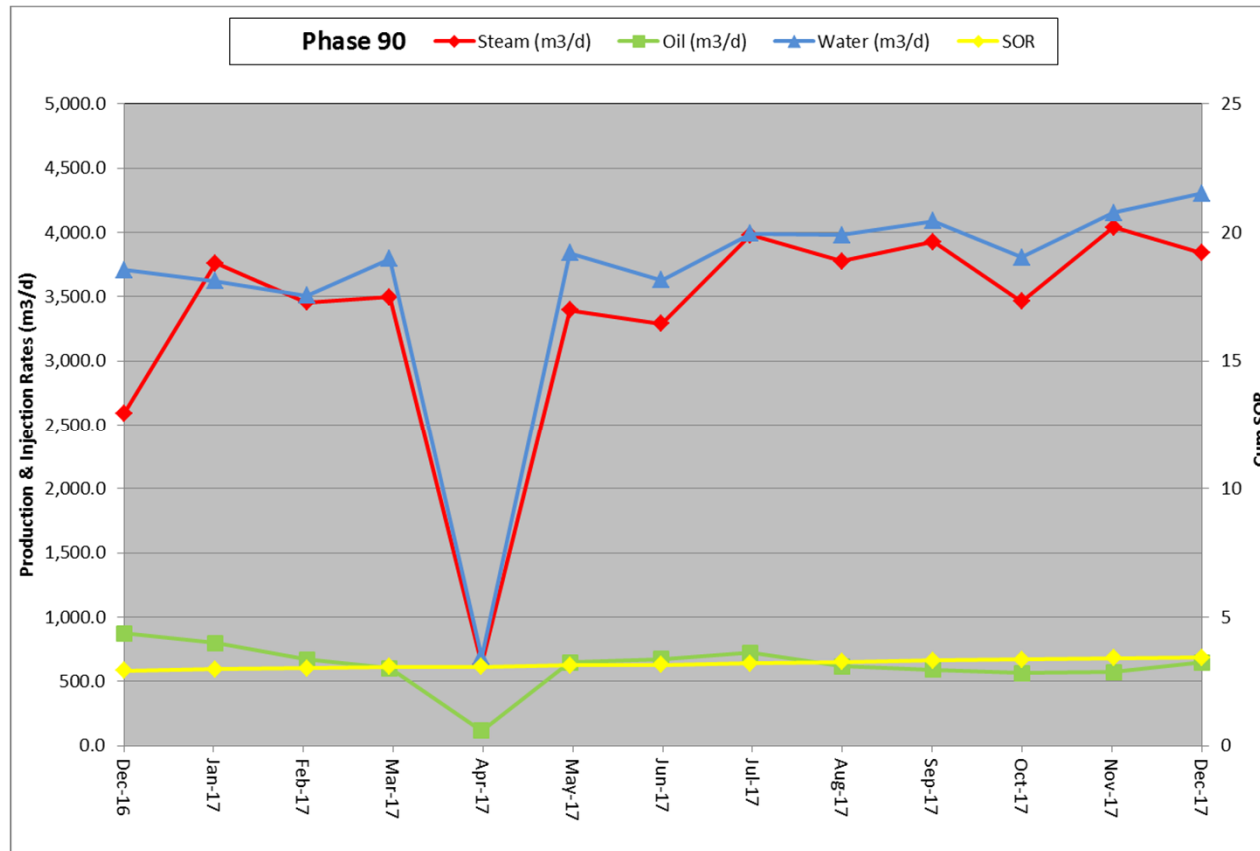
Primrose Pad Plots – AER Review for 2017



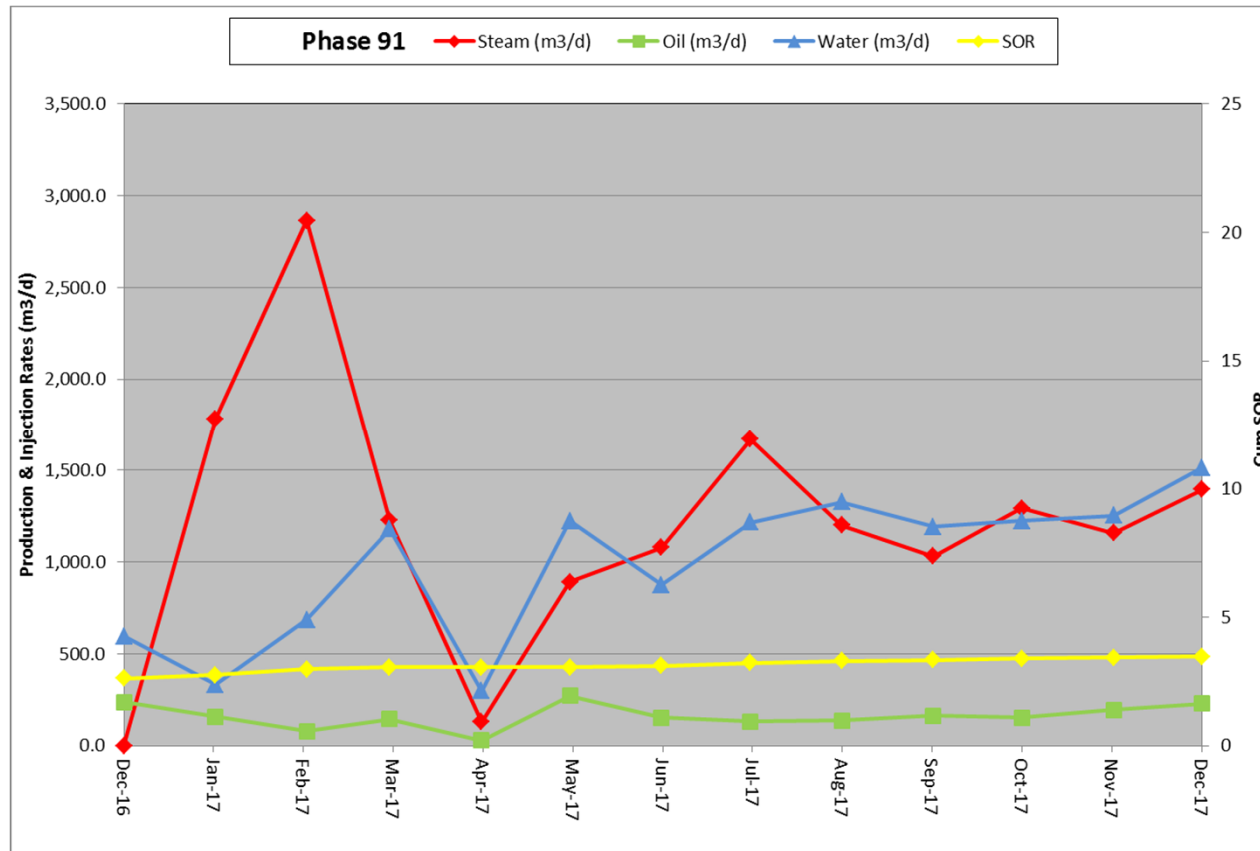
Primrose Pad Plots – AER Review for 2017



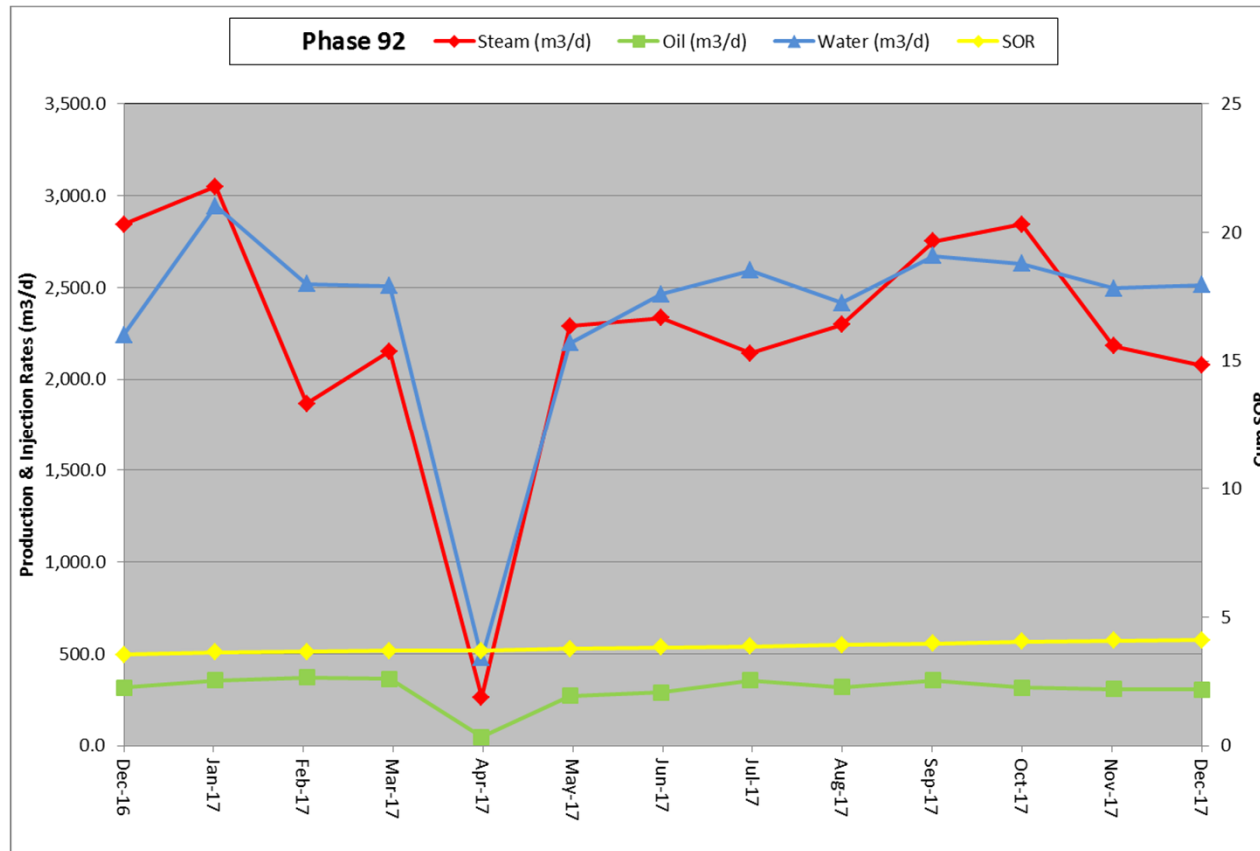
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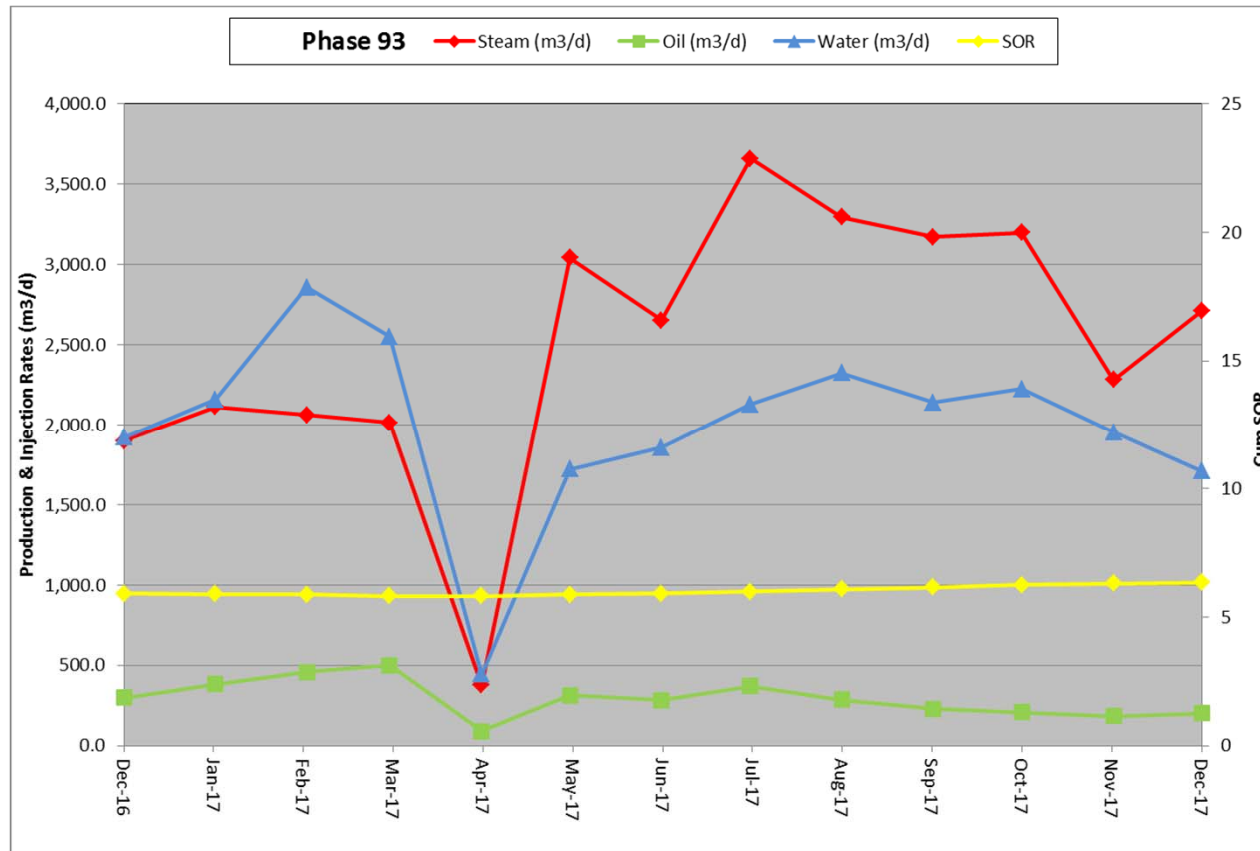
Primrose Pad Plots – AER Review for 2017



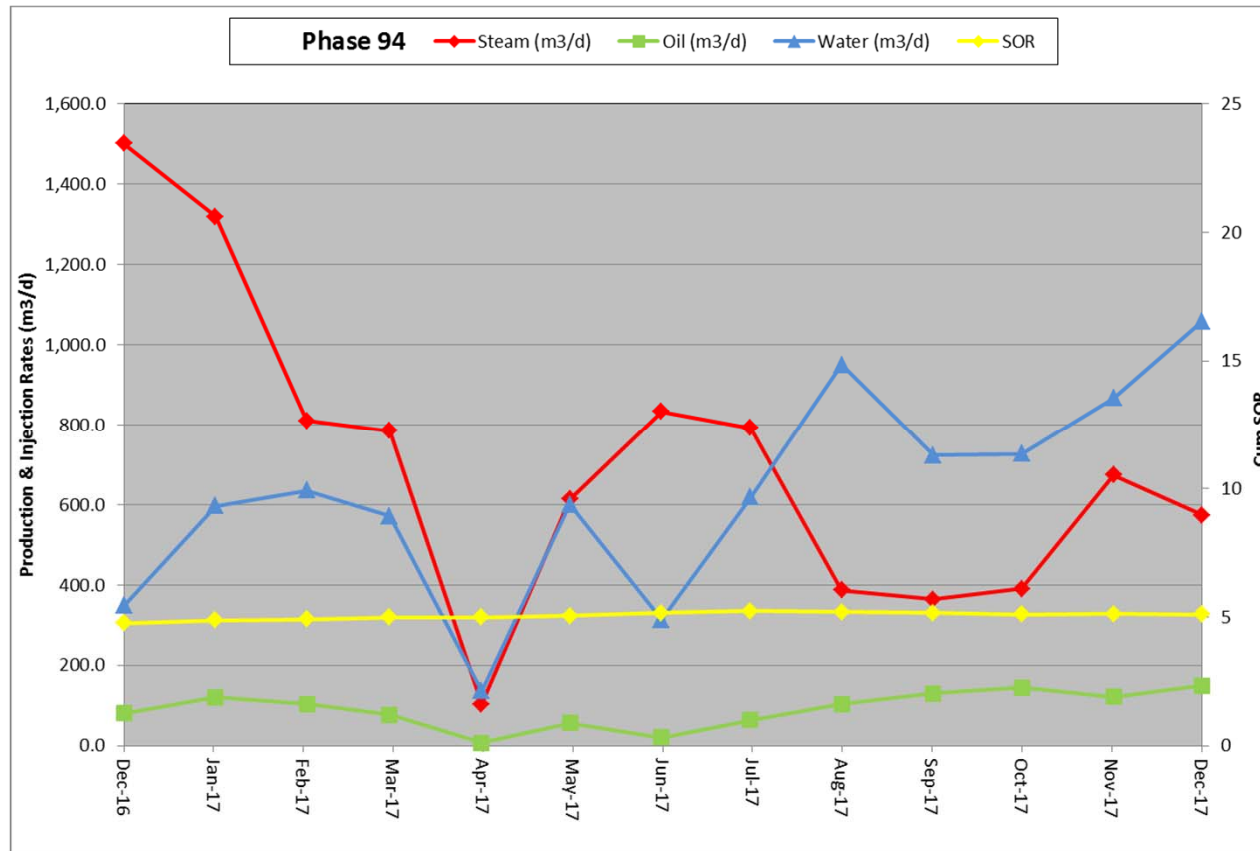
Primrose Pad Plots – AER Review for 2017



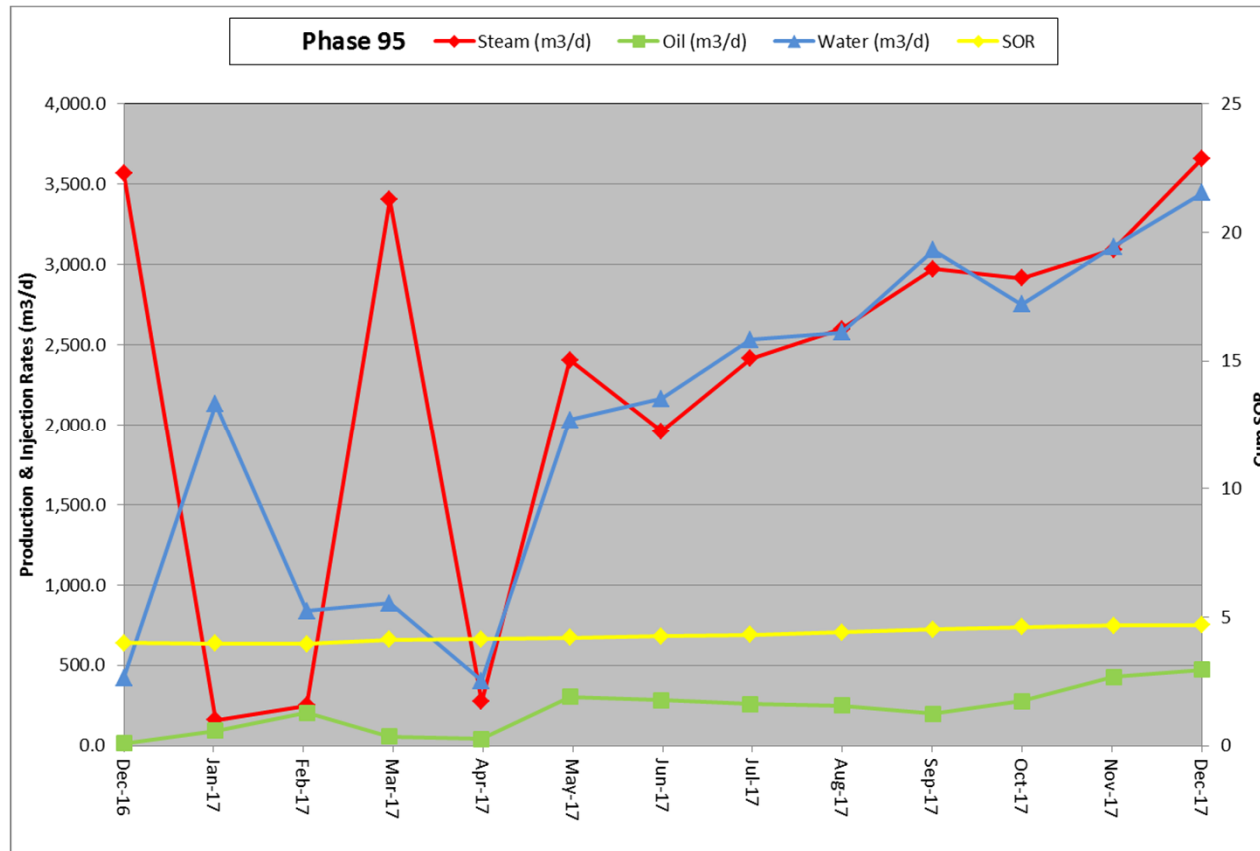
Primrose Pad Plots – AER Review for 2017



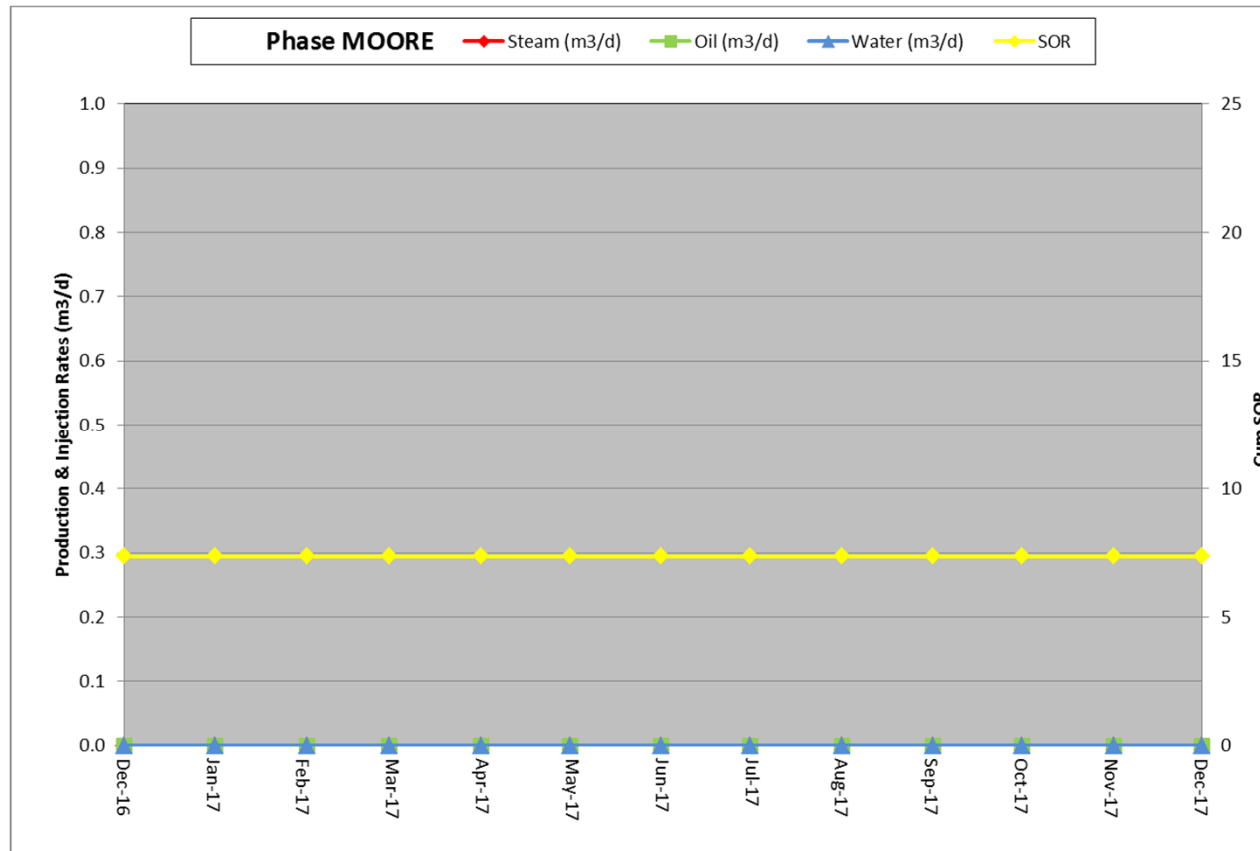
Primrose Pad Plots – AER Review for 2017



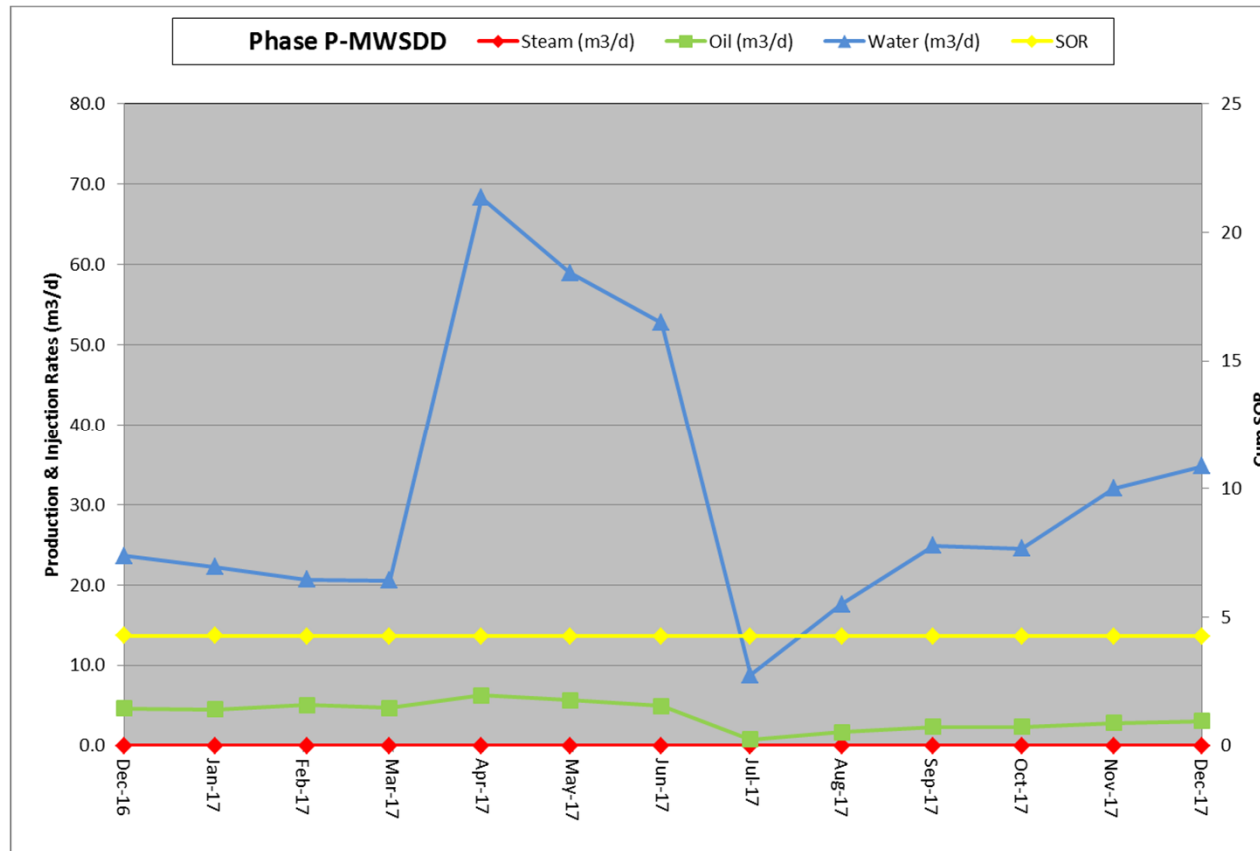
Primrose Pad Plots – AER Review for 2017



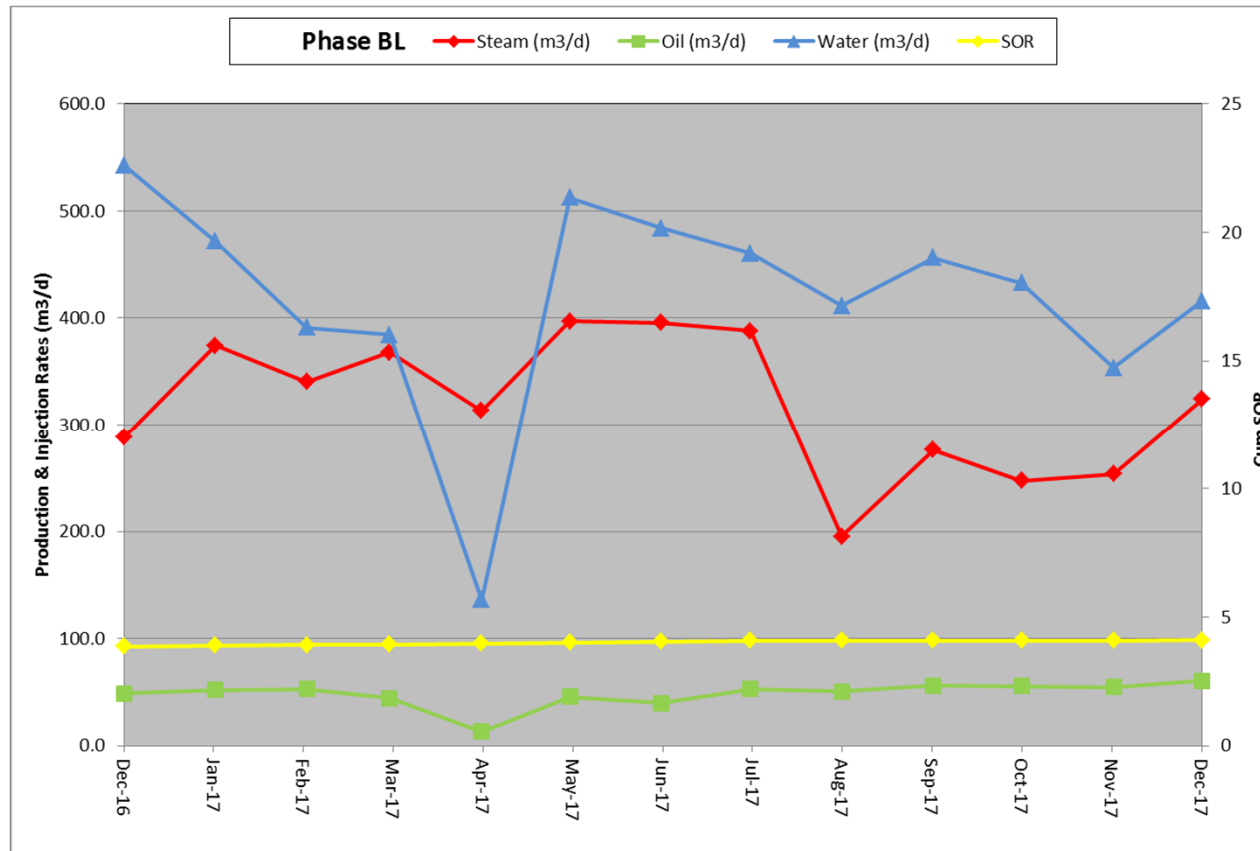
Primrose Pad Plots – AER Review for 2017



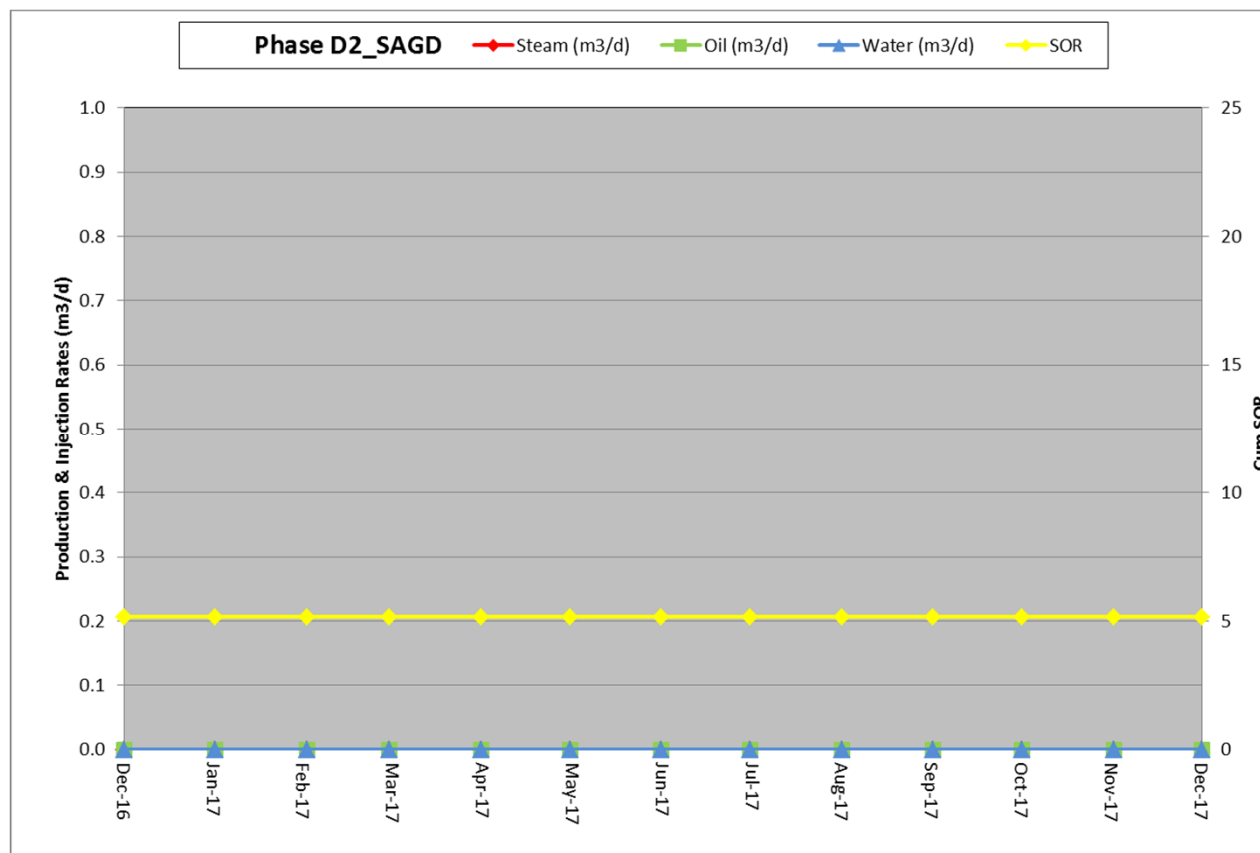
Primrose Pad Plots – AER Review for 2017



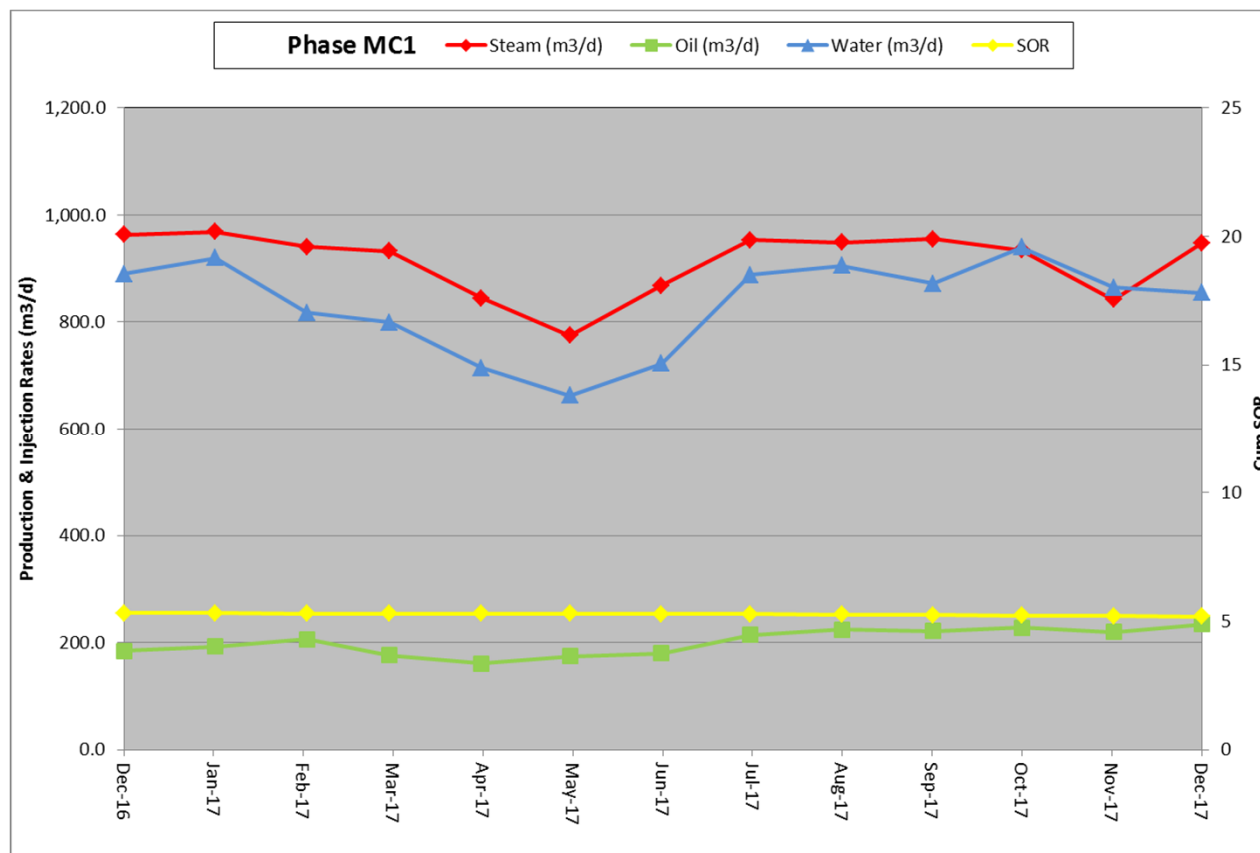
Burnt Lake SAGD – AER Review for 2017



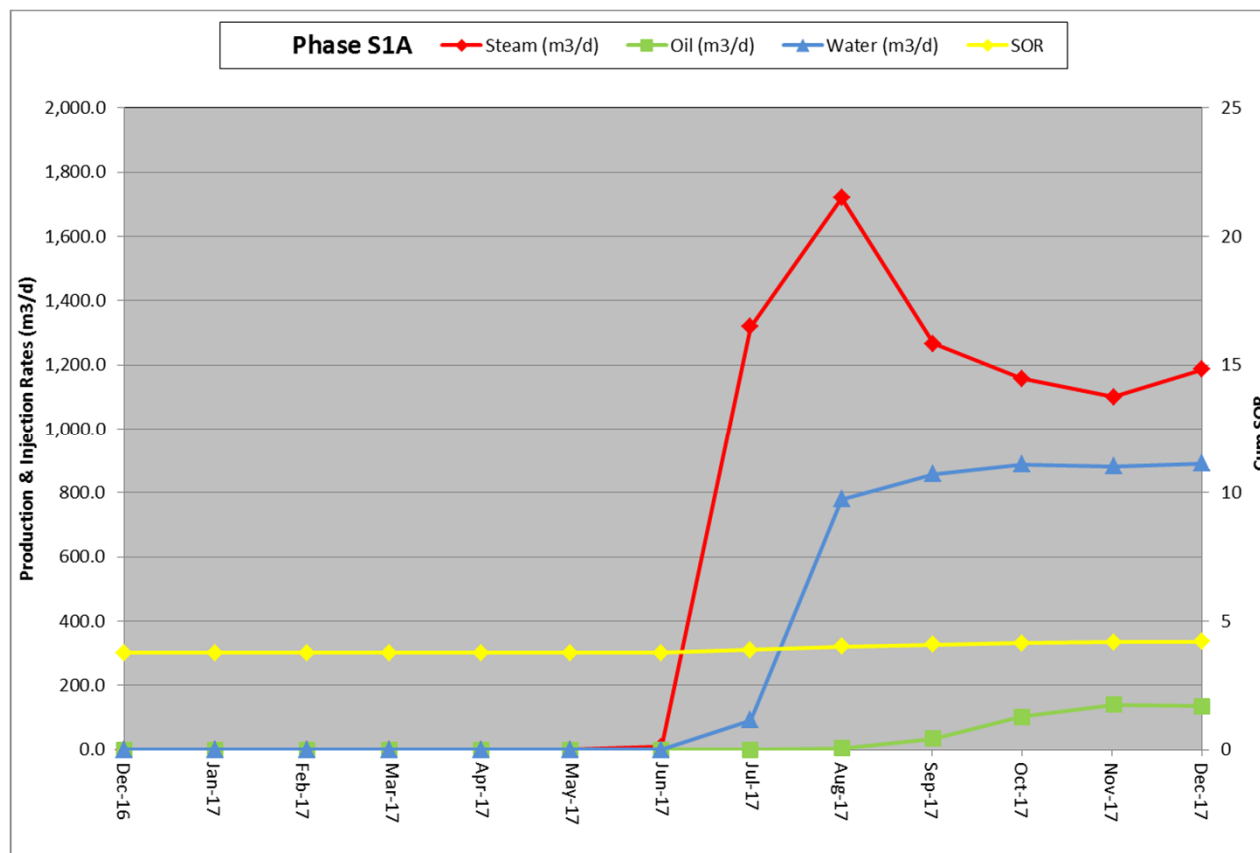
Wolf Lake SAGD Pad Plots



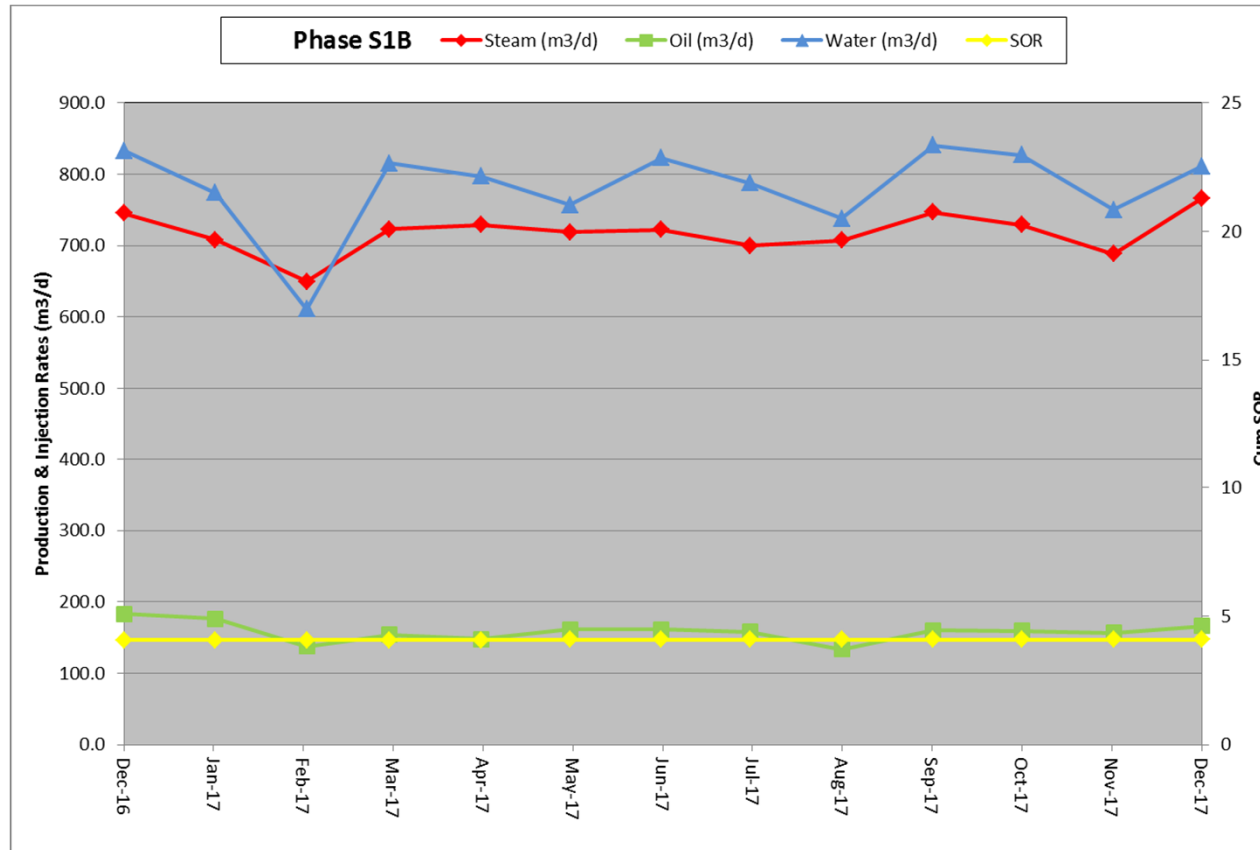
Wolf Lake SAGD Pad Plots



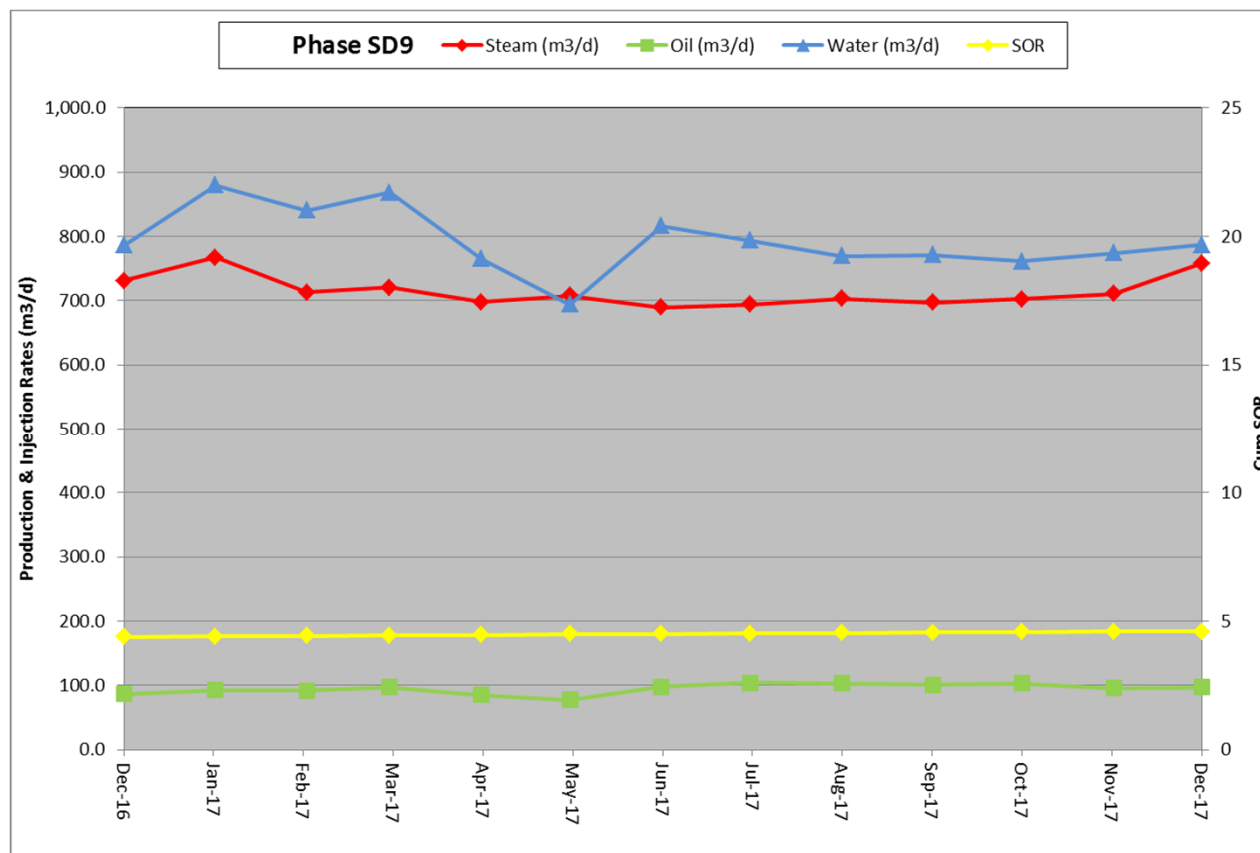
Wolf Lake SAGD Pad Plots



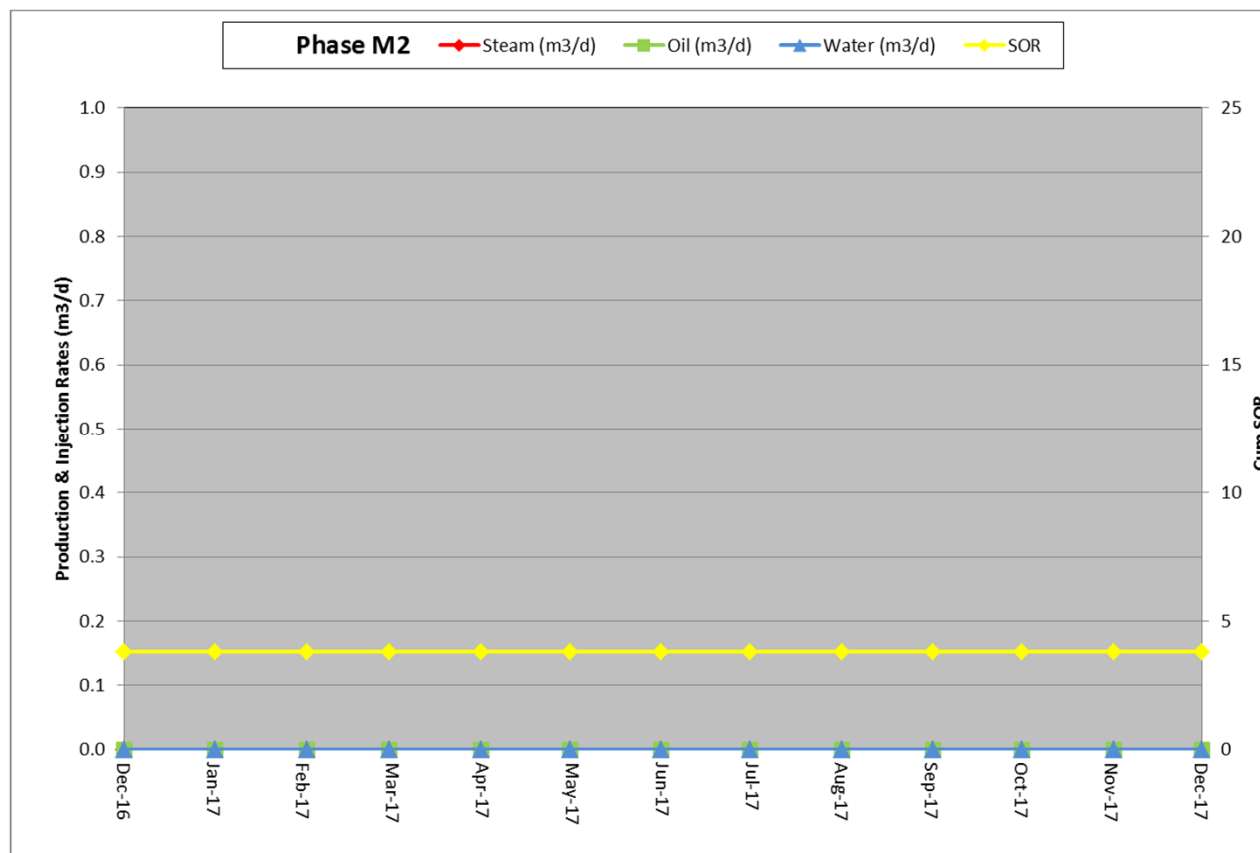
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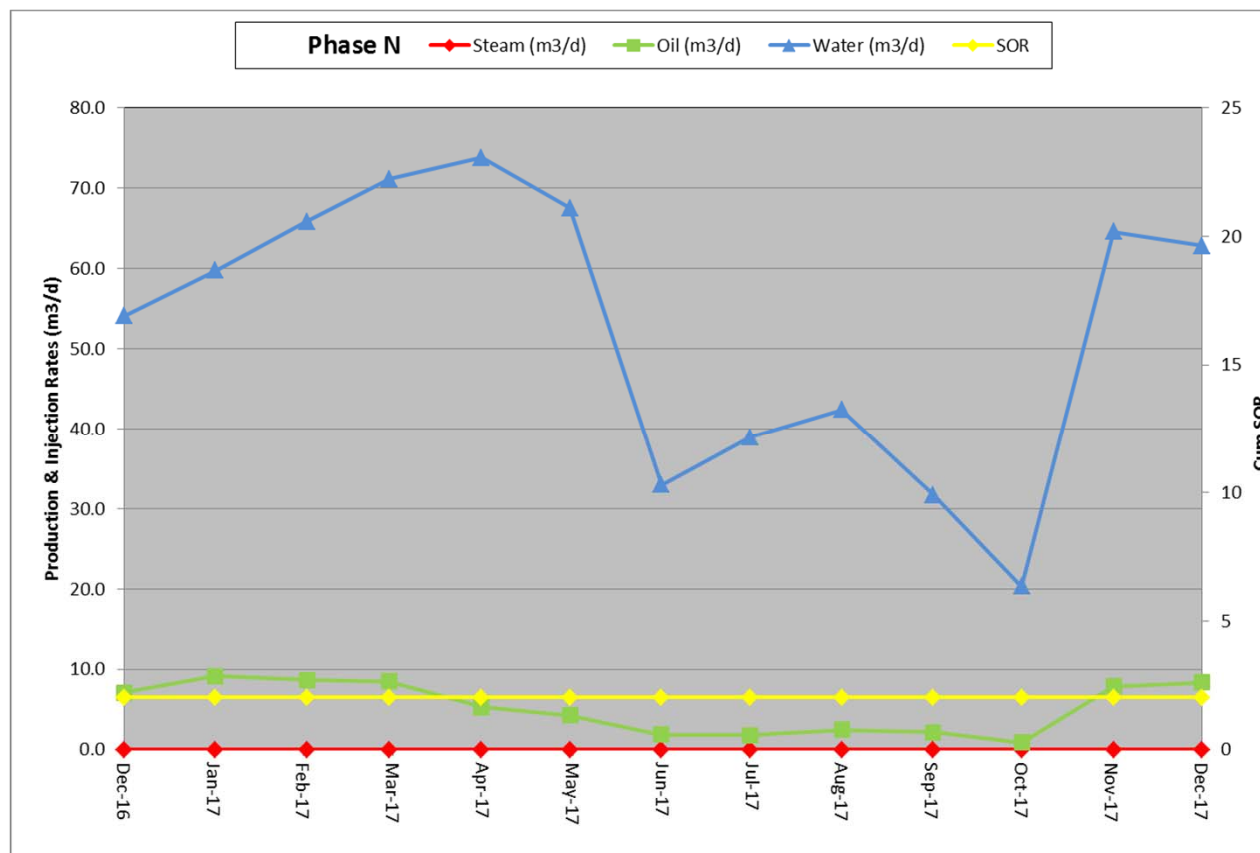
Wolf Lake SAGD Pad Plots



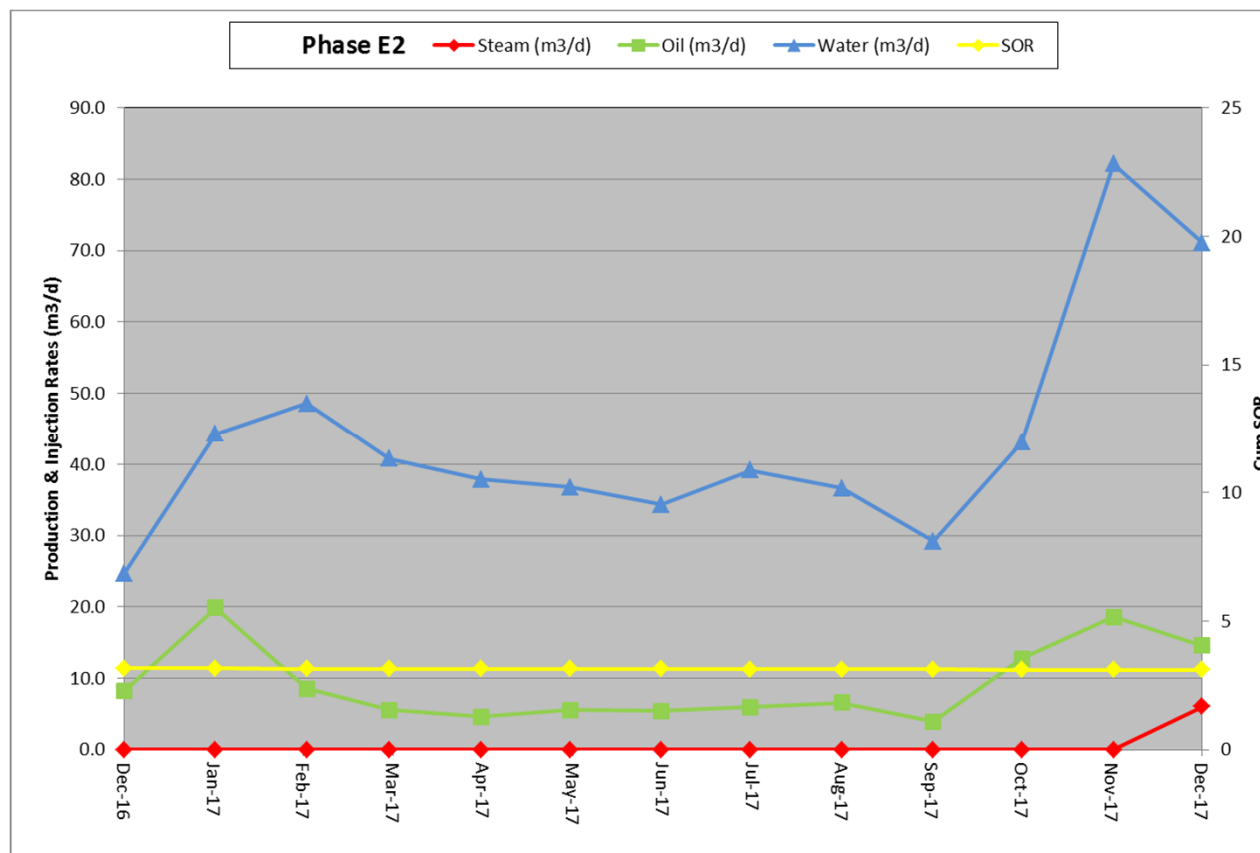
Wolf Lake CSS Pad Plots



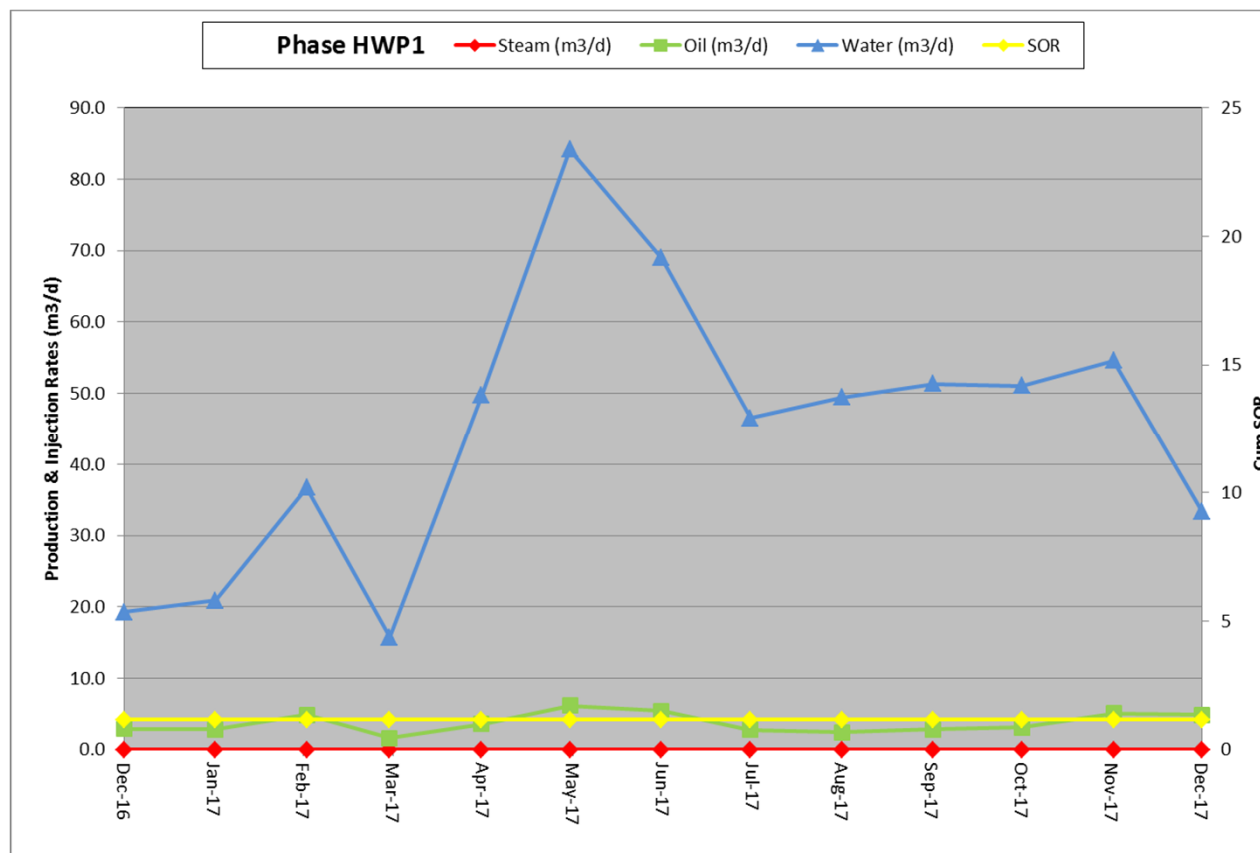
Wolf Lake CSS Pad Plots



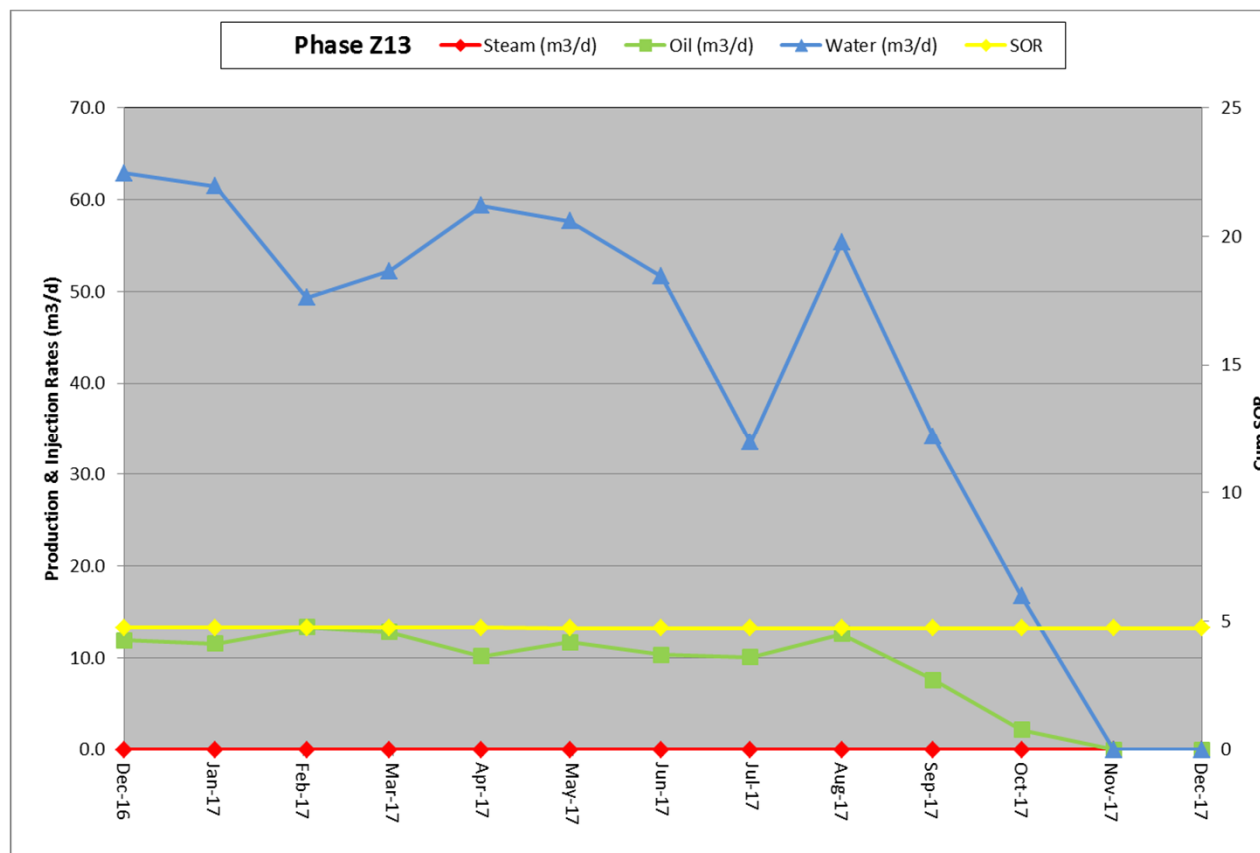
Wolf Lake CSS Pad Plots



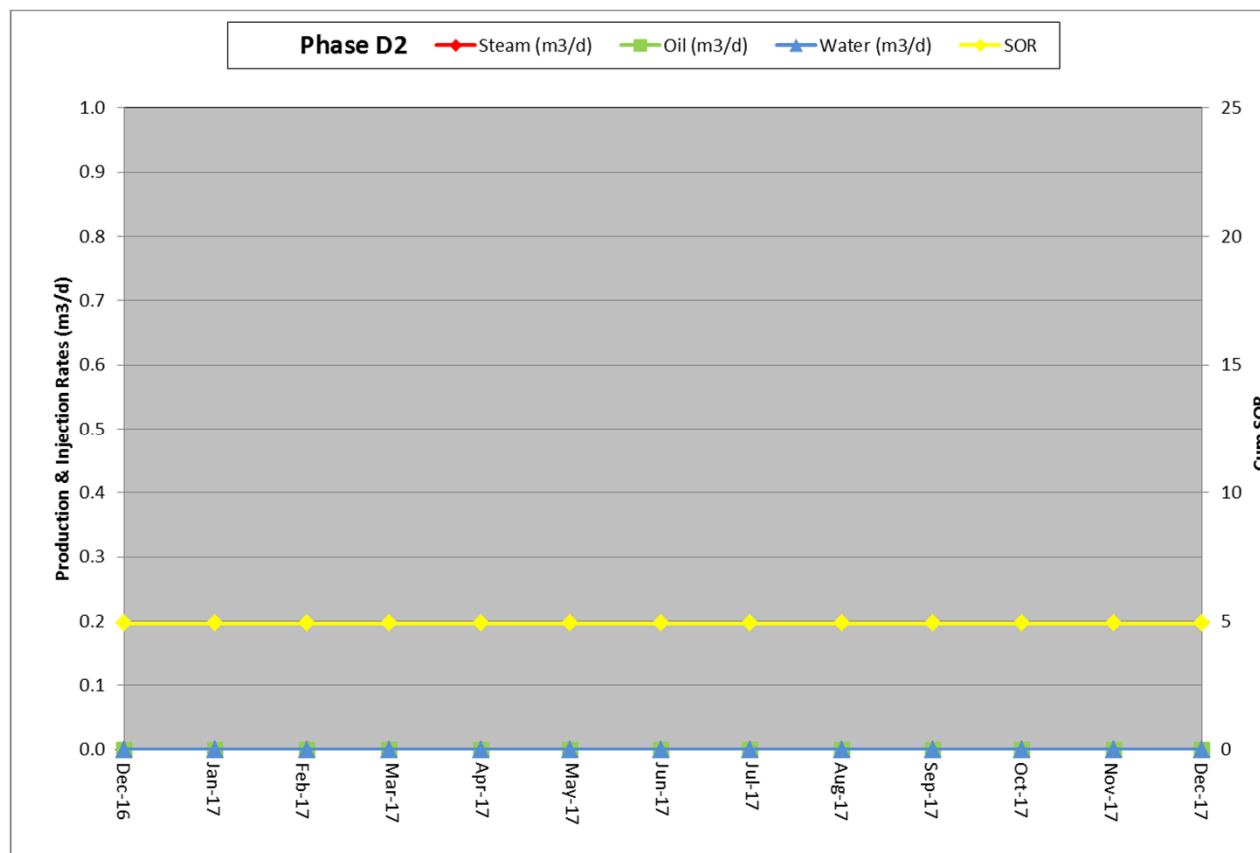
Wolf Lake CSS Pad Plots



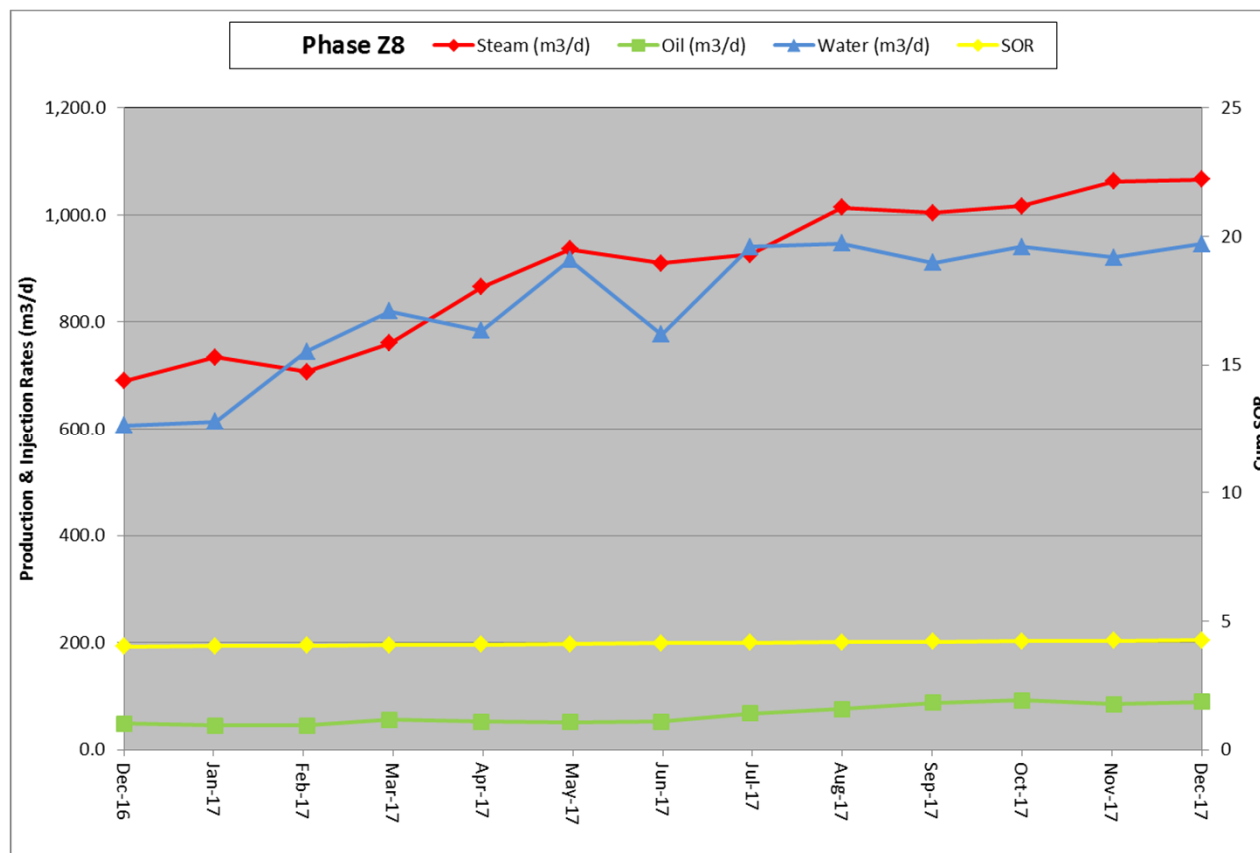
Wolf Lake CSS Pad Plots



Wolf Lake CSS Pad Plots



Wolf Lake CSS Pad Plots

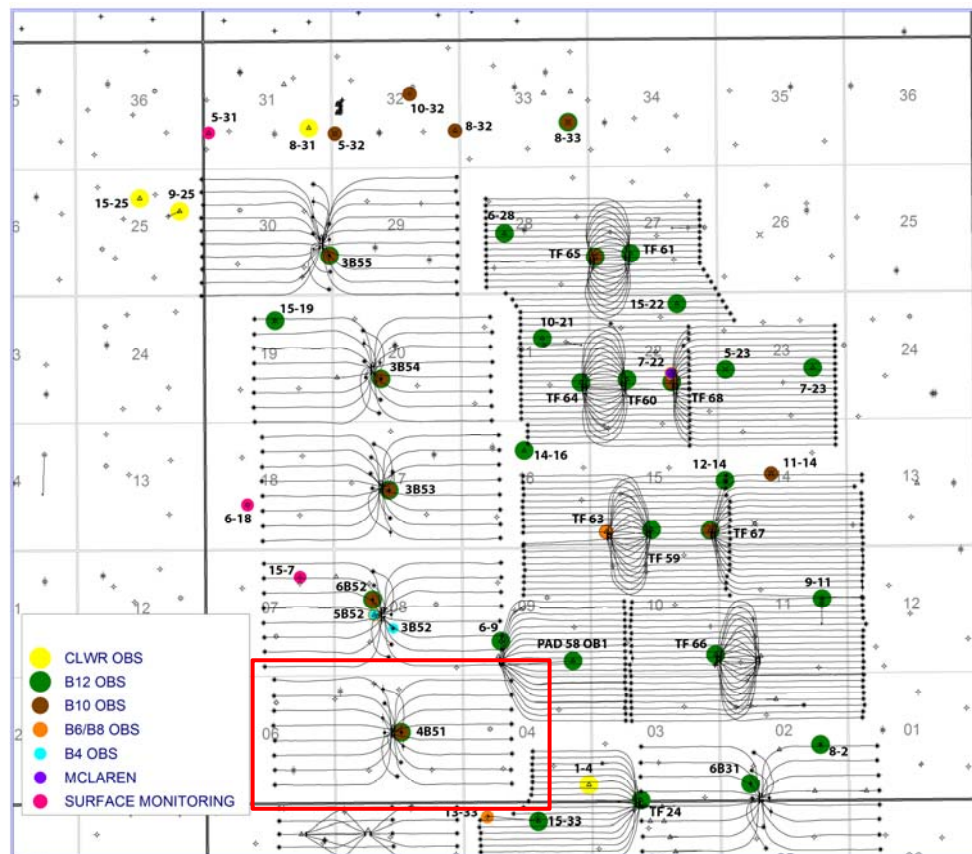




Canadian Natural

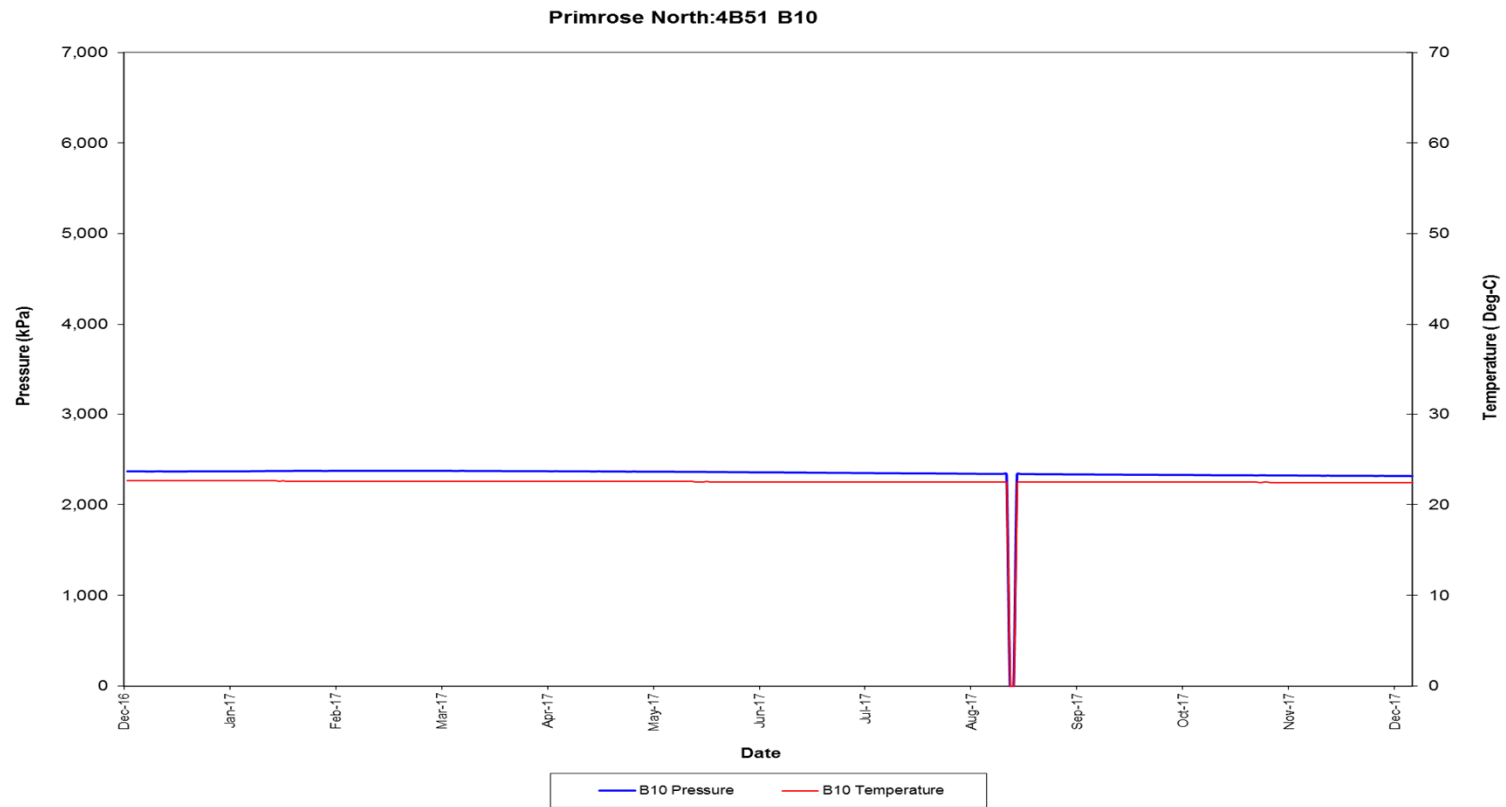
2016 Temperature and Pressure OBS Wells

Observation Wells - Primrose North Phase 51



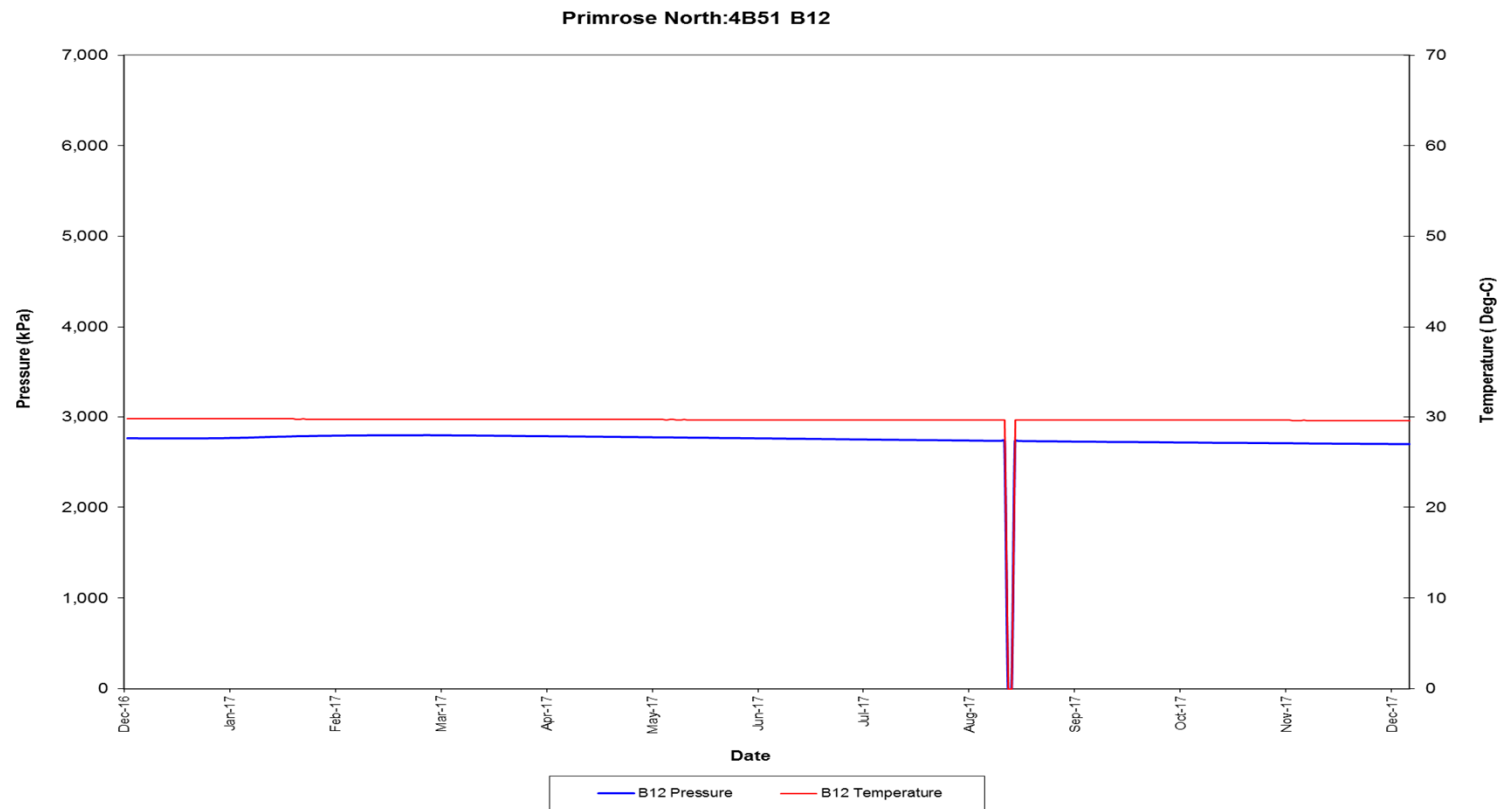
Primrose North B10/B12

Pressure & Temperature Monitoring – 4B51



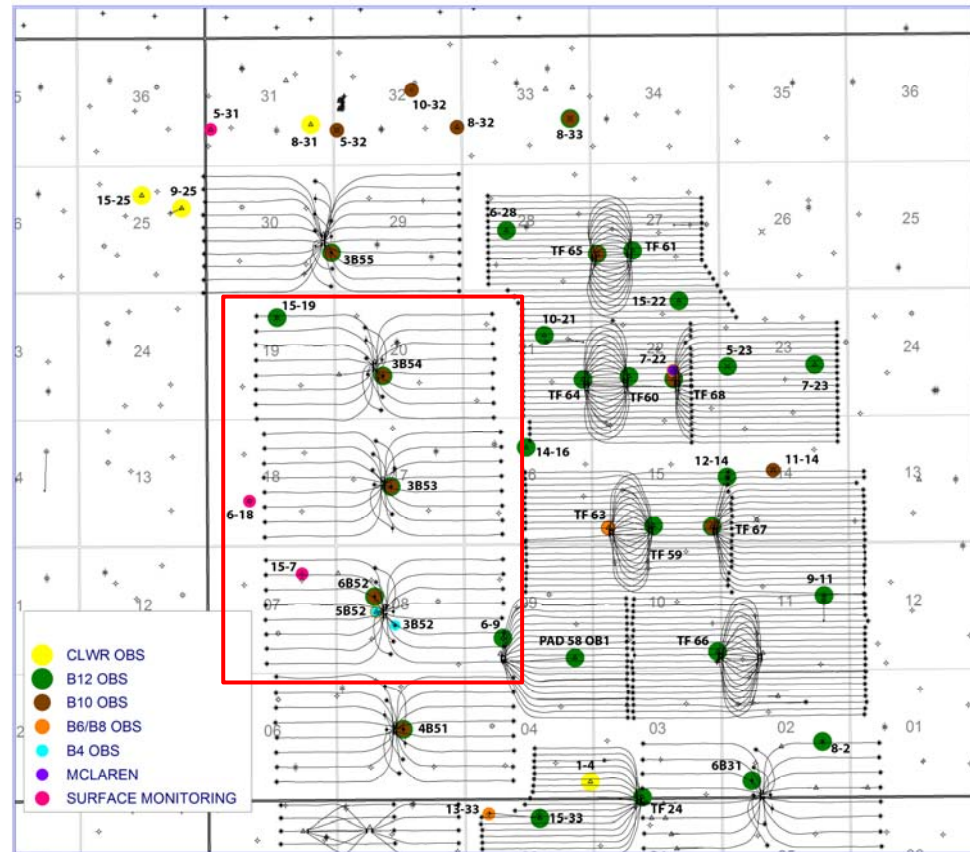
Primrose North B10/B12

Pressure & Temperature Monitoring – 4B51



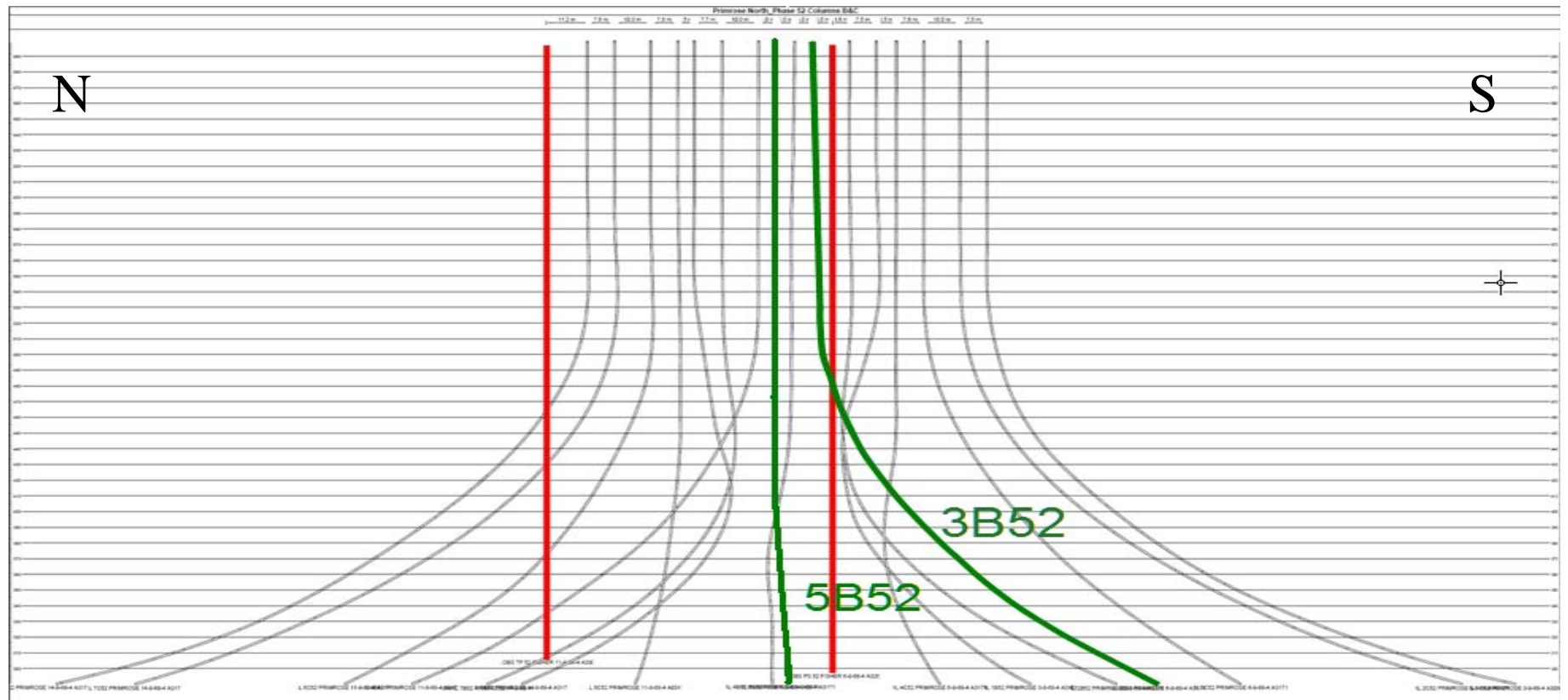
Observation Wells - Primrose North

Phases 52-54



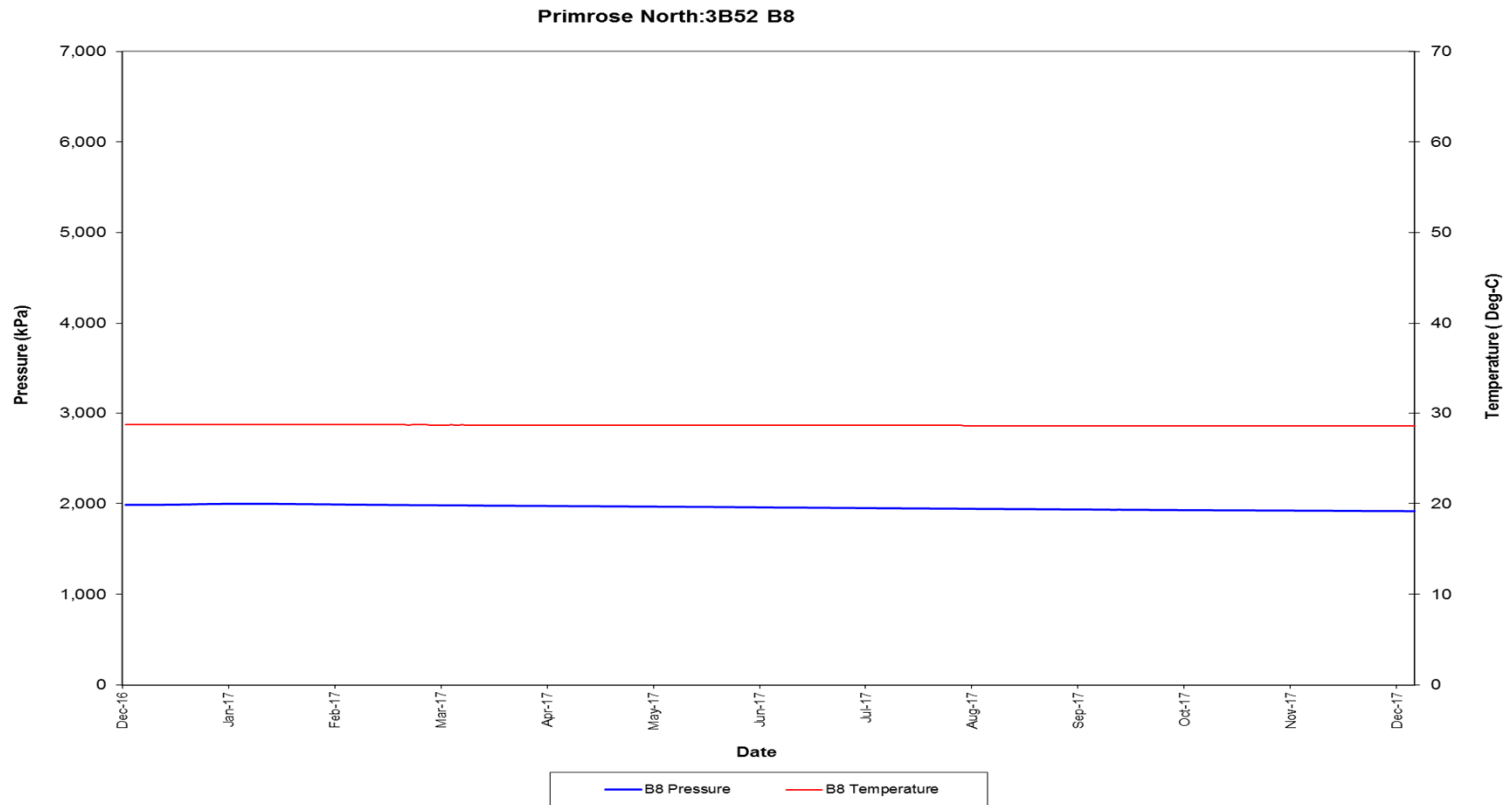
Primrose North Observation Wells B6/B8/B10/B12

Pressure & Temperature Monitoring – Phase 52



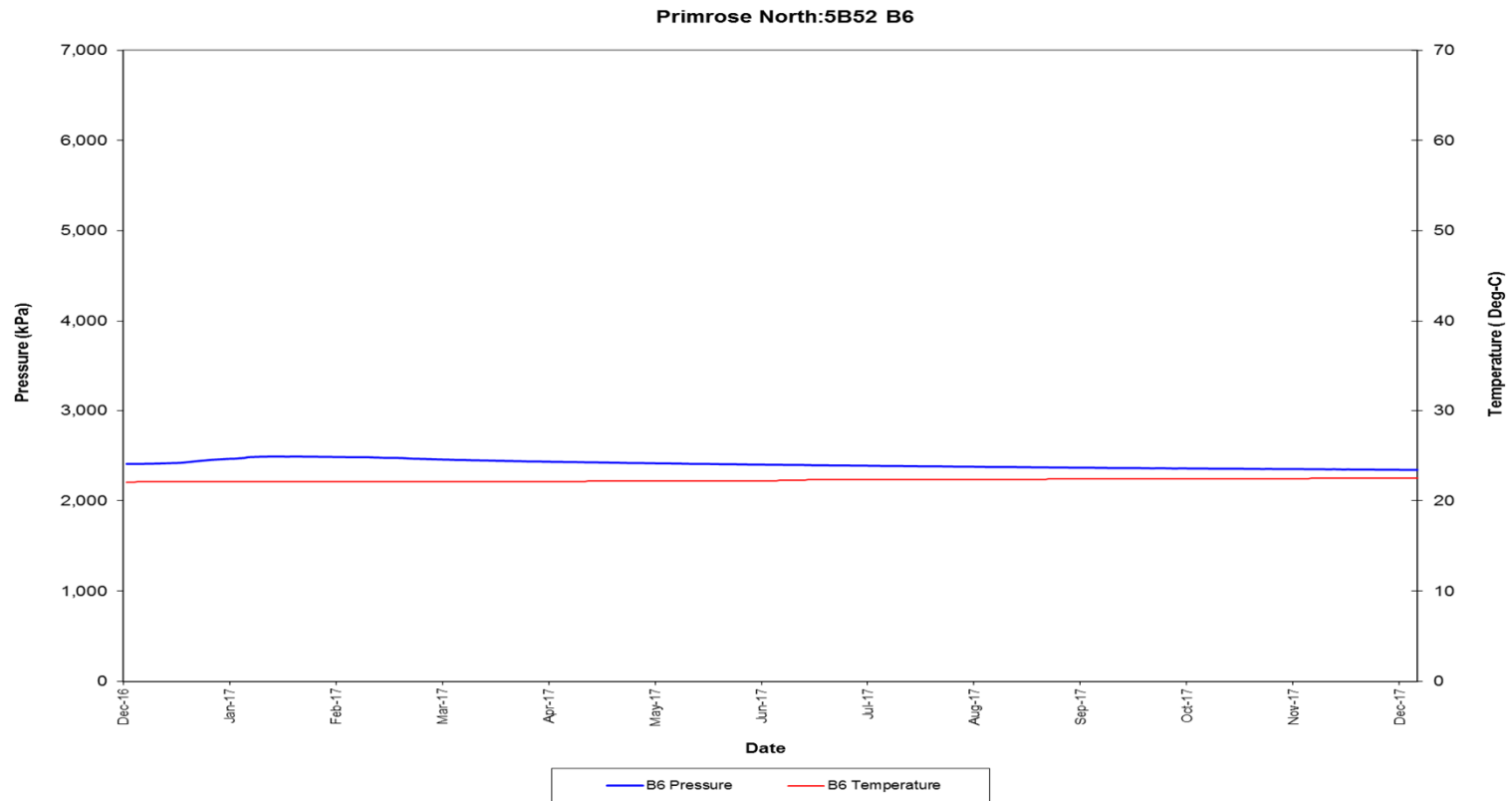
Primrose North B6/B8

Pressure & Temperature Monitoring – 3B52



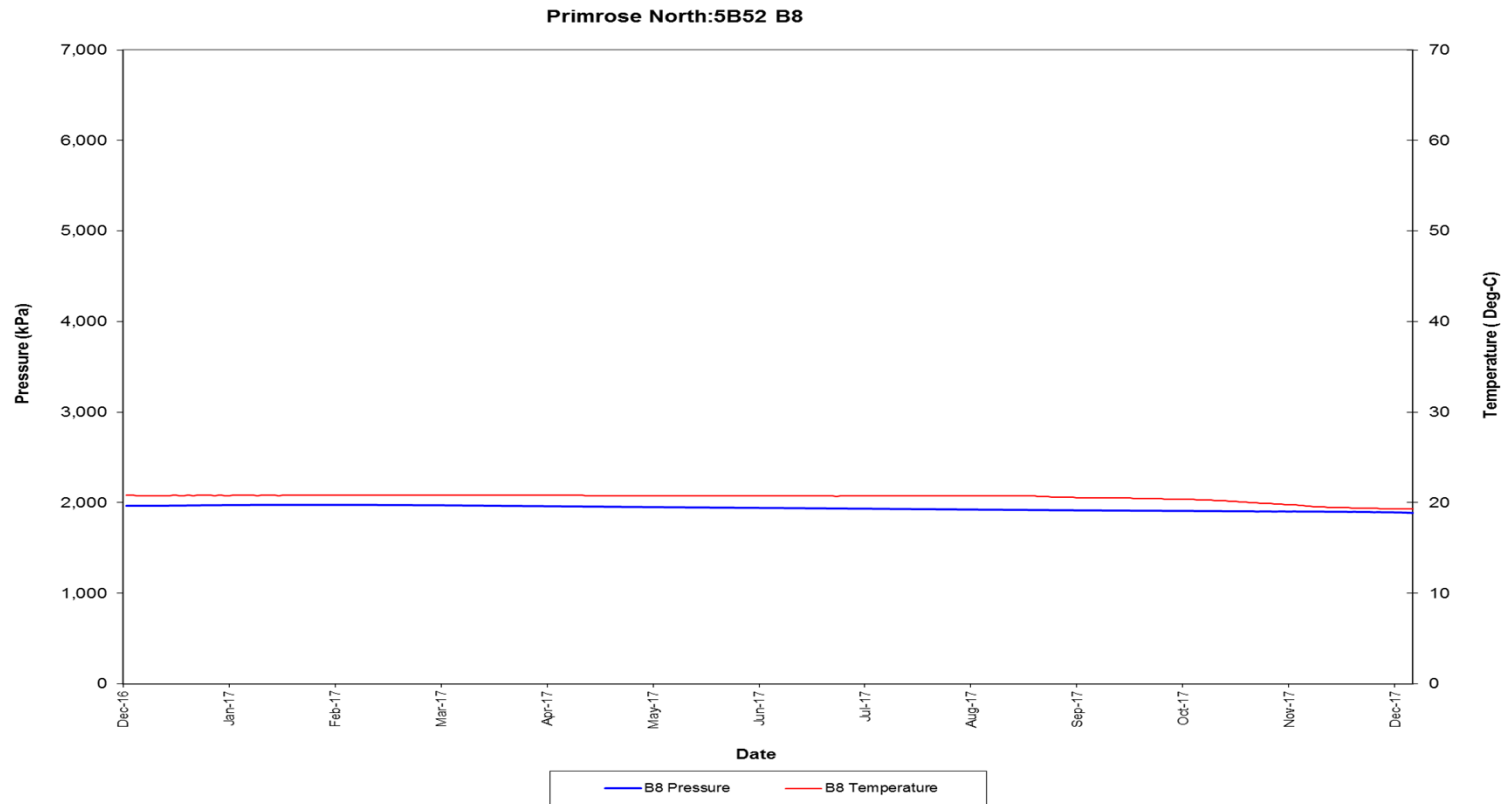
Primrose North B6/B8

Pressure & Temperature Monitoring – 5B52



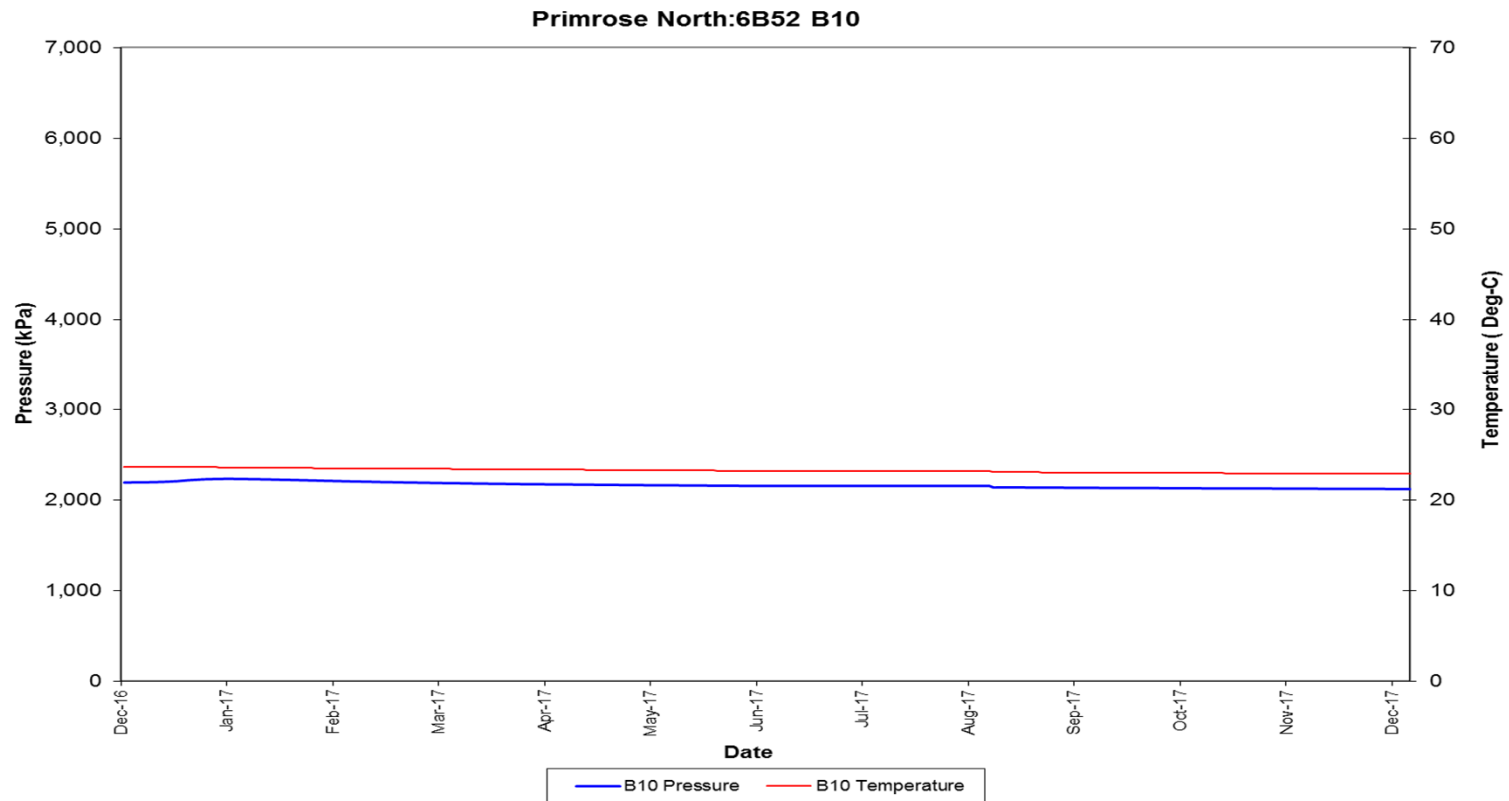
Primrose North B6/B8

Pressure & Temperature Monitoring – 5B52



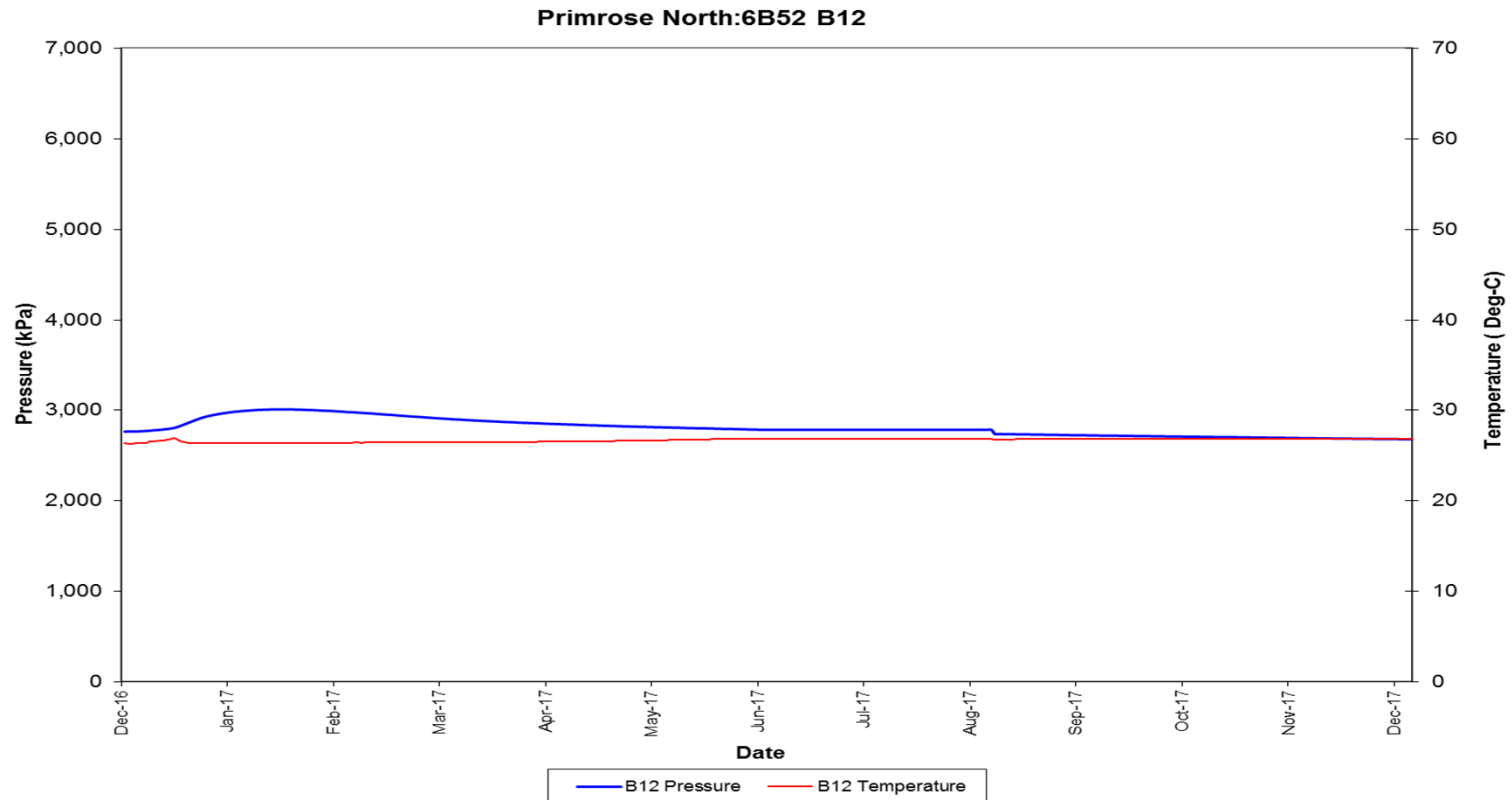
Primrose North B10/B12

Pressure & Temperature Monitoring – 6B52



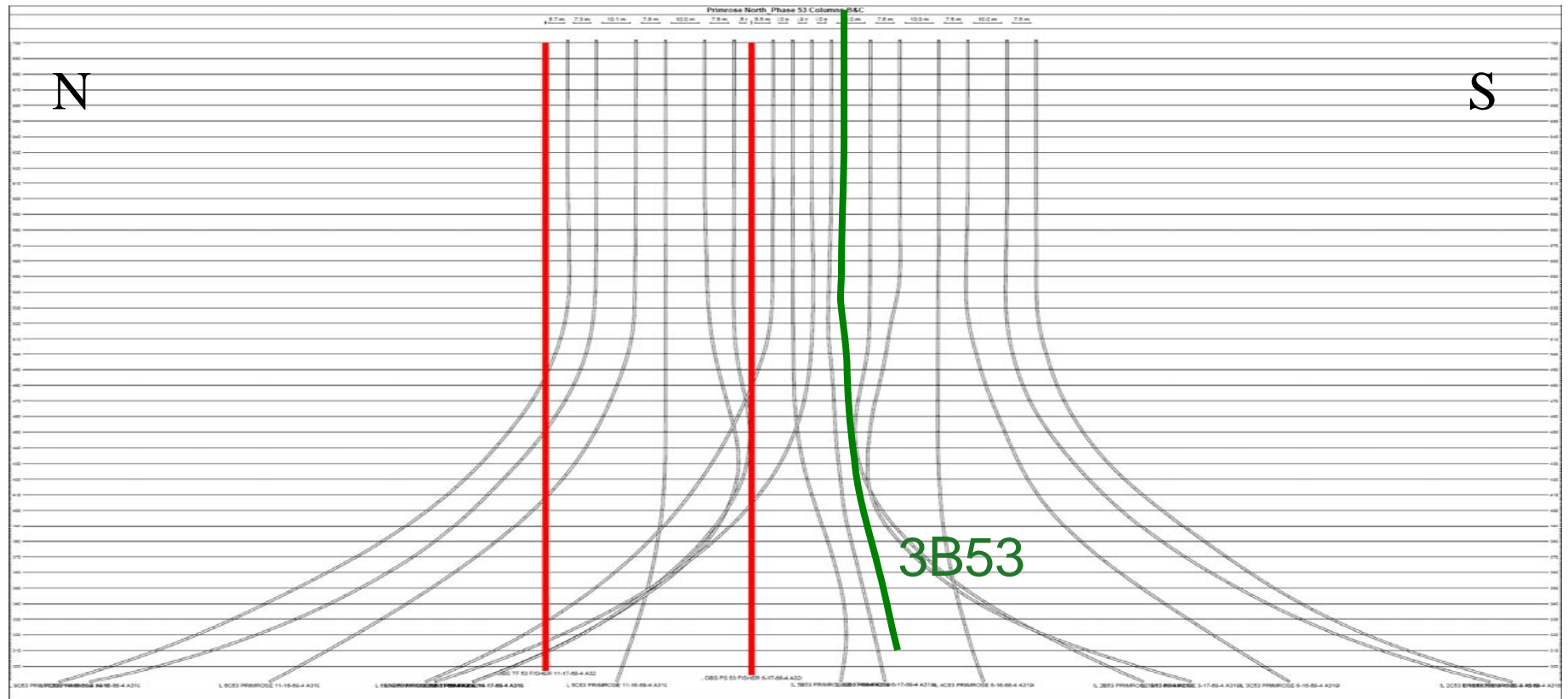
Primrose North B10/B12

Pressure & Temperature Monitoring – 6B52



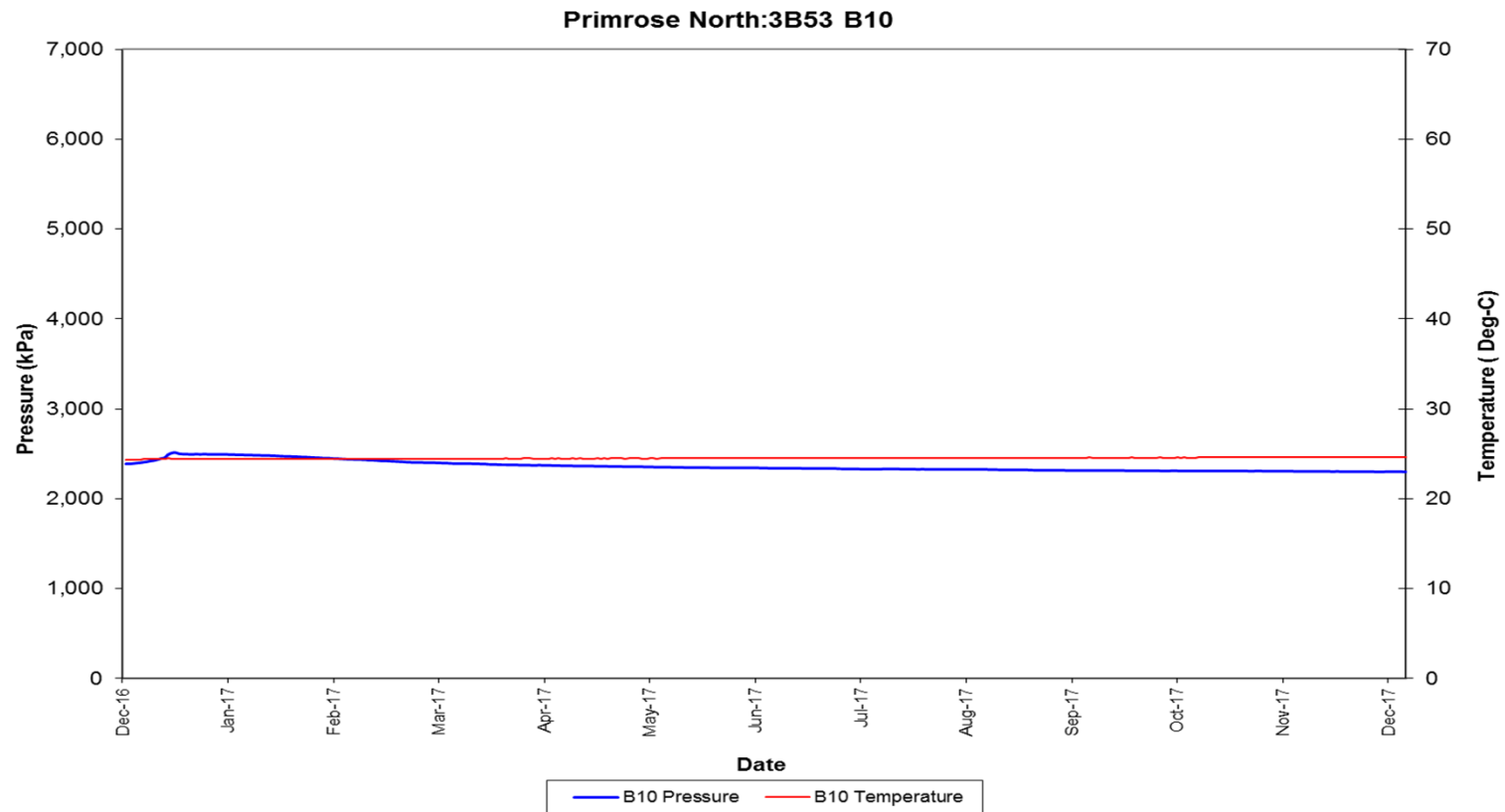
Primrose North B10/B12

Pressure & Temperature Monitoring – Phase 53



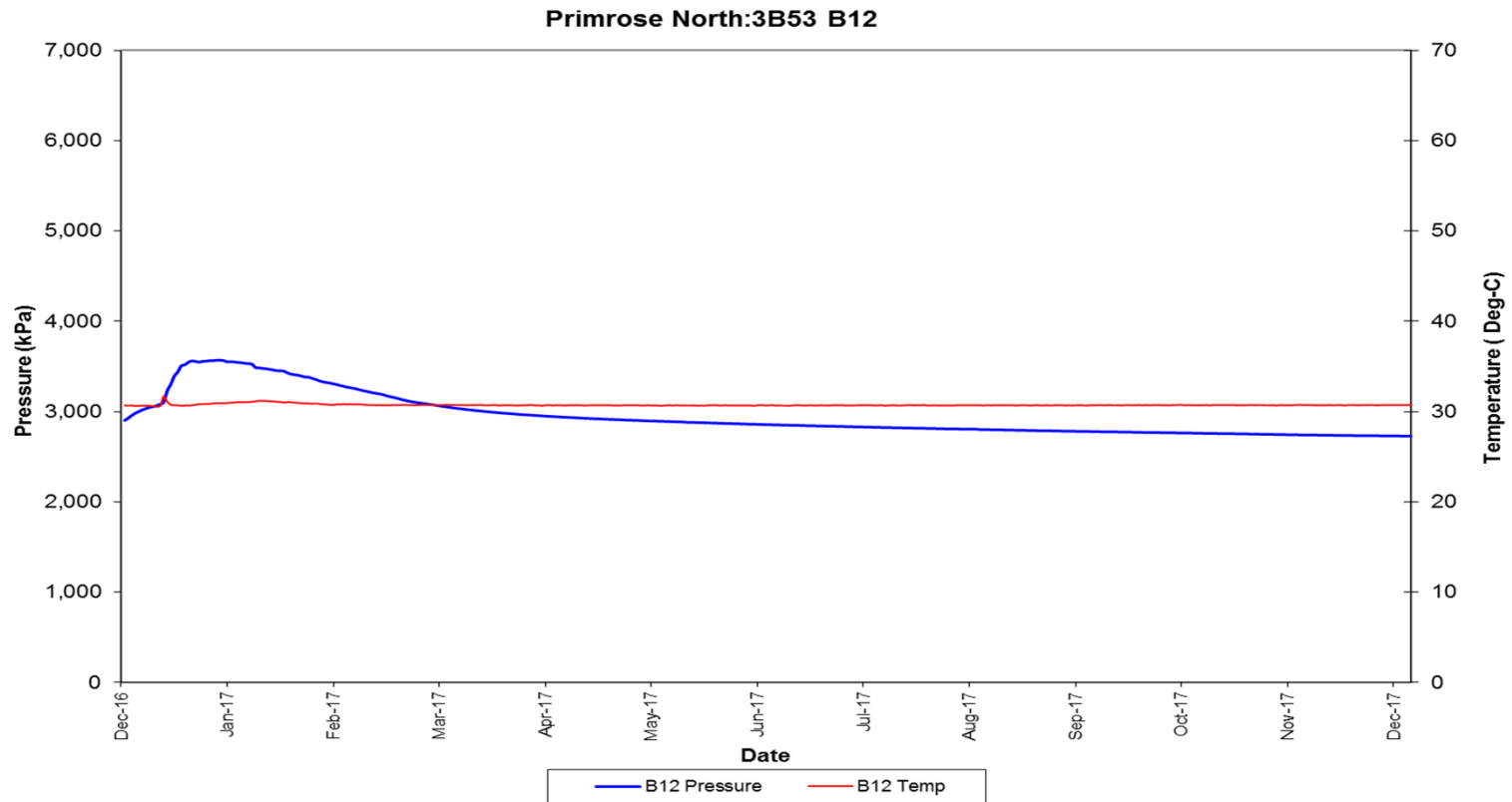
Primrose North B10/B12

Pressure & Temperature Monitoring – 3B53

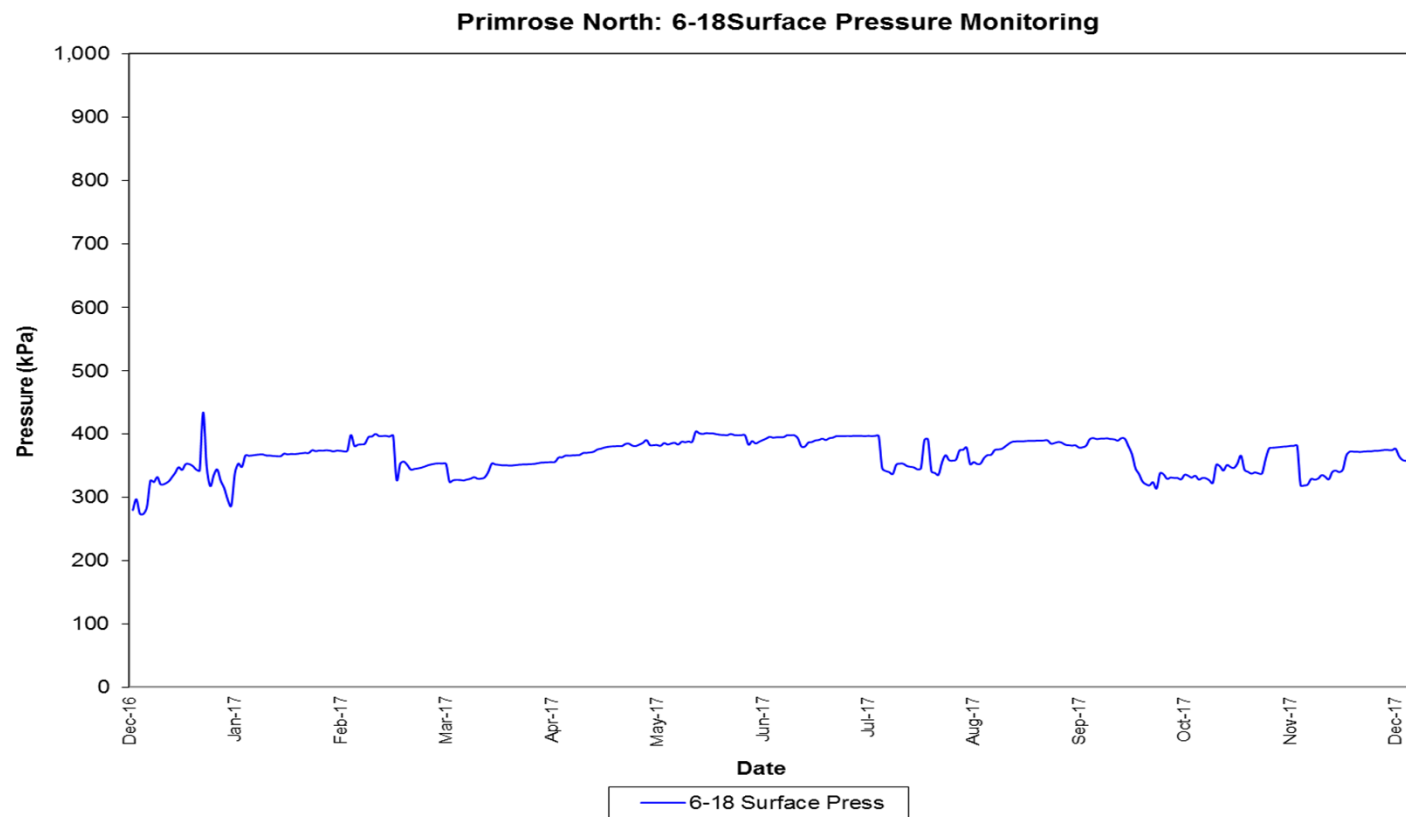


Primrose North B10/B12

Pressure & Temperature Monitoring – 3B53

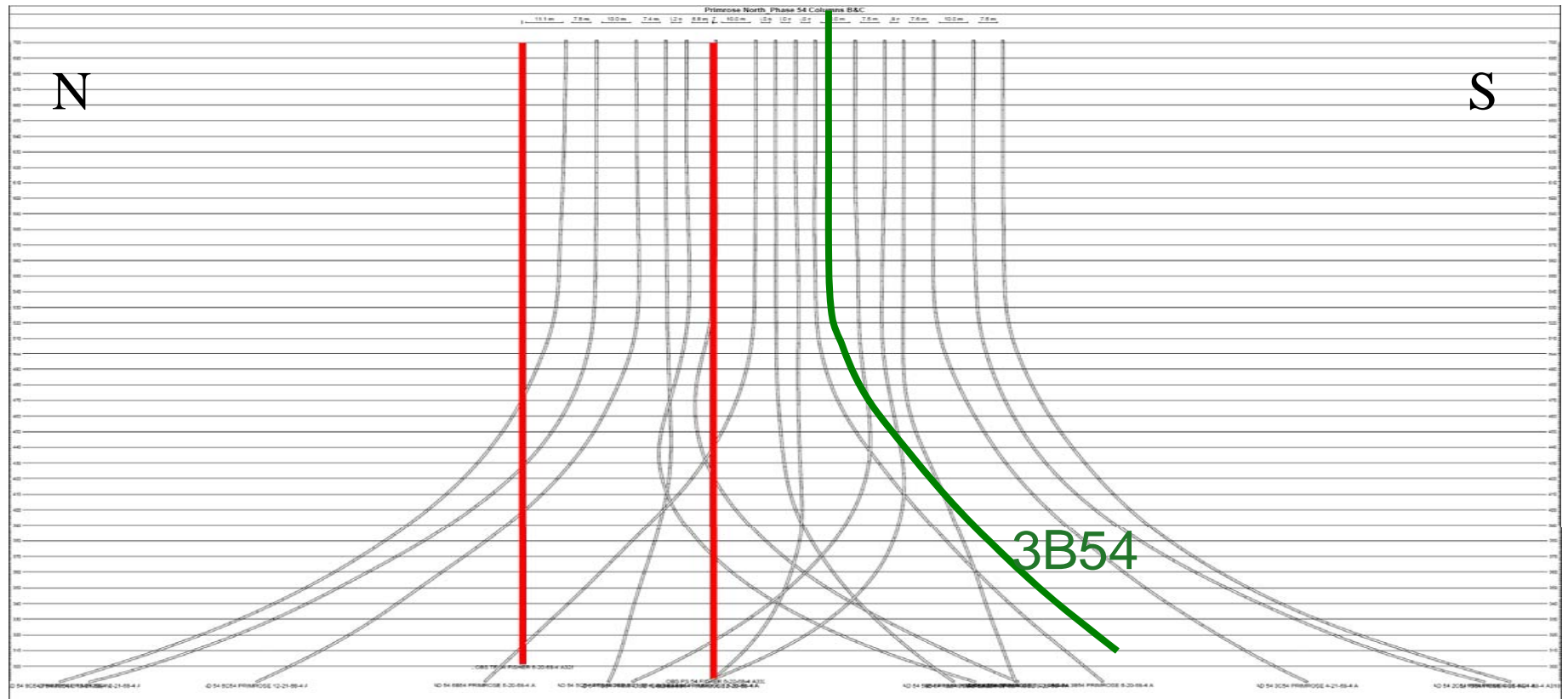


Primrose North Surface Pressure Monitoring – 6-18



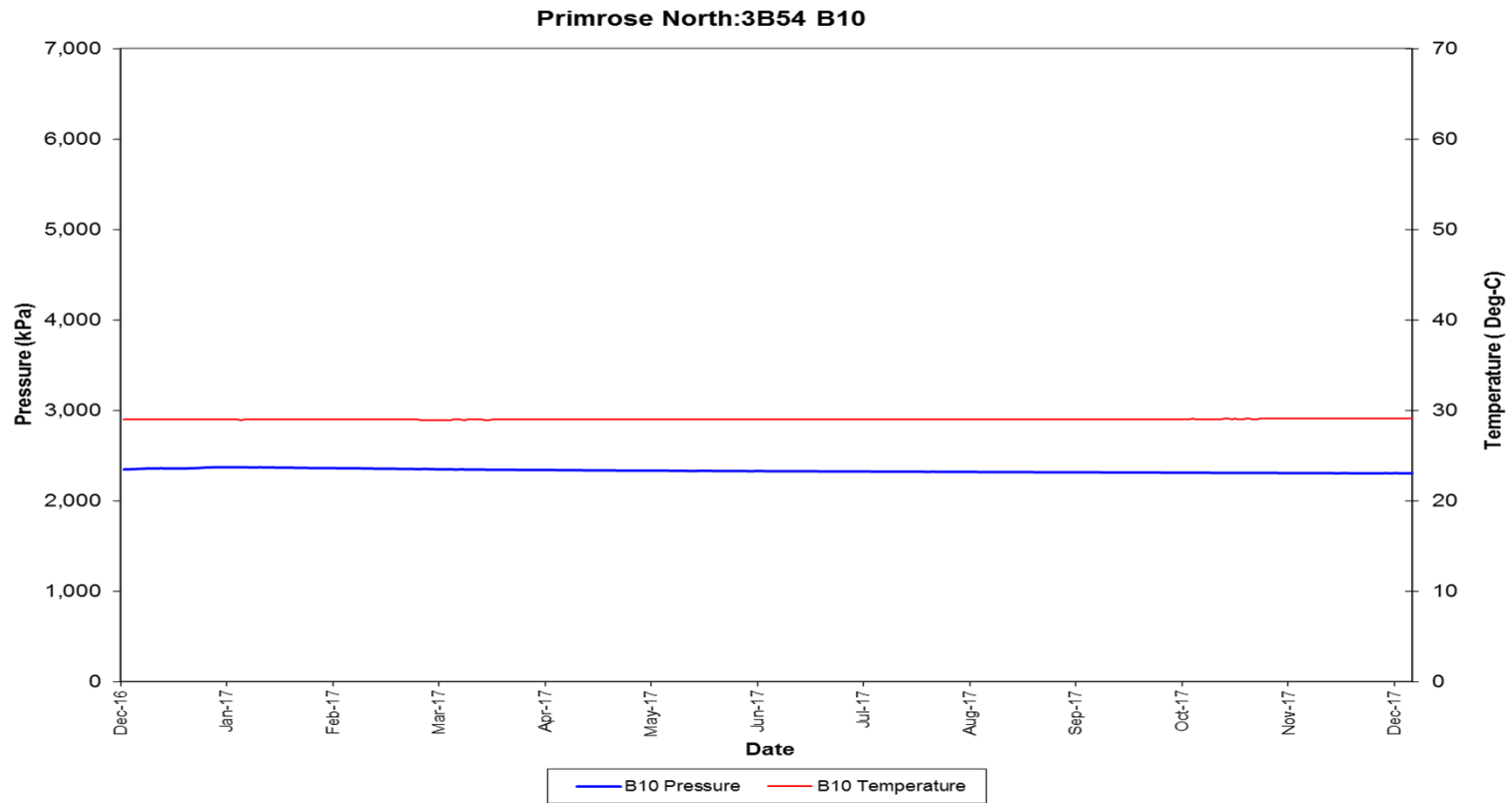
Primrose North B10/B12

Pressure & Temperature Monitoring – Phase 54



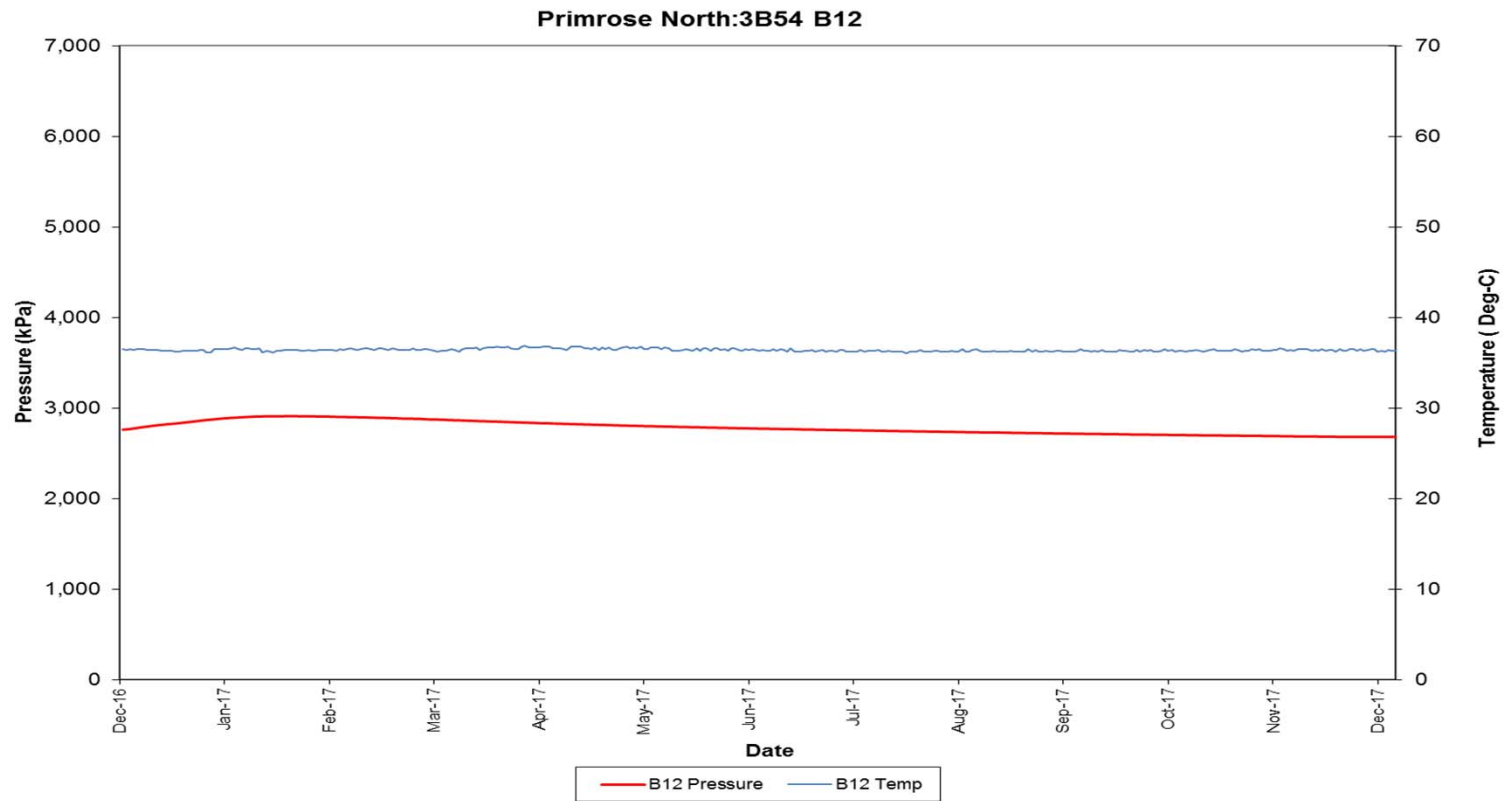
Primrose North B10/B12

Pressure & Temperature Monitoring – 3B54

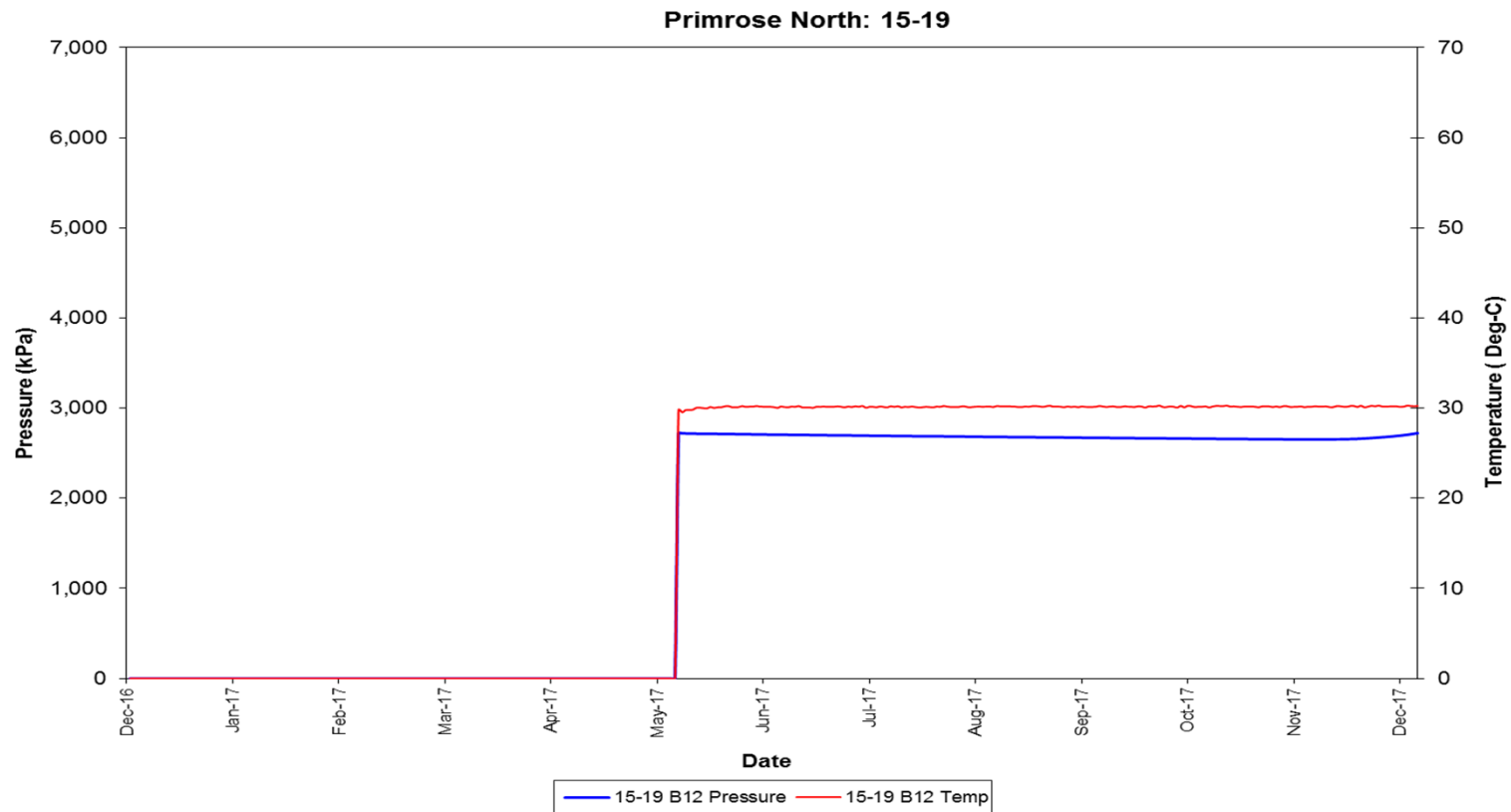


Primrose North B10/B12

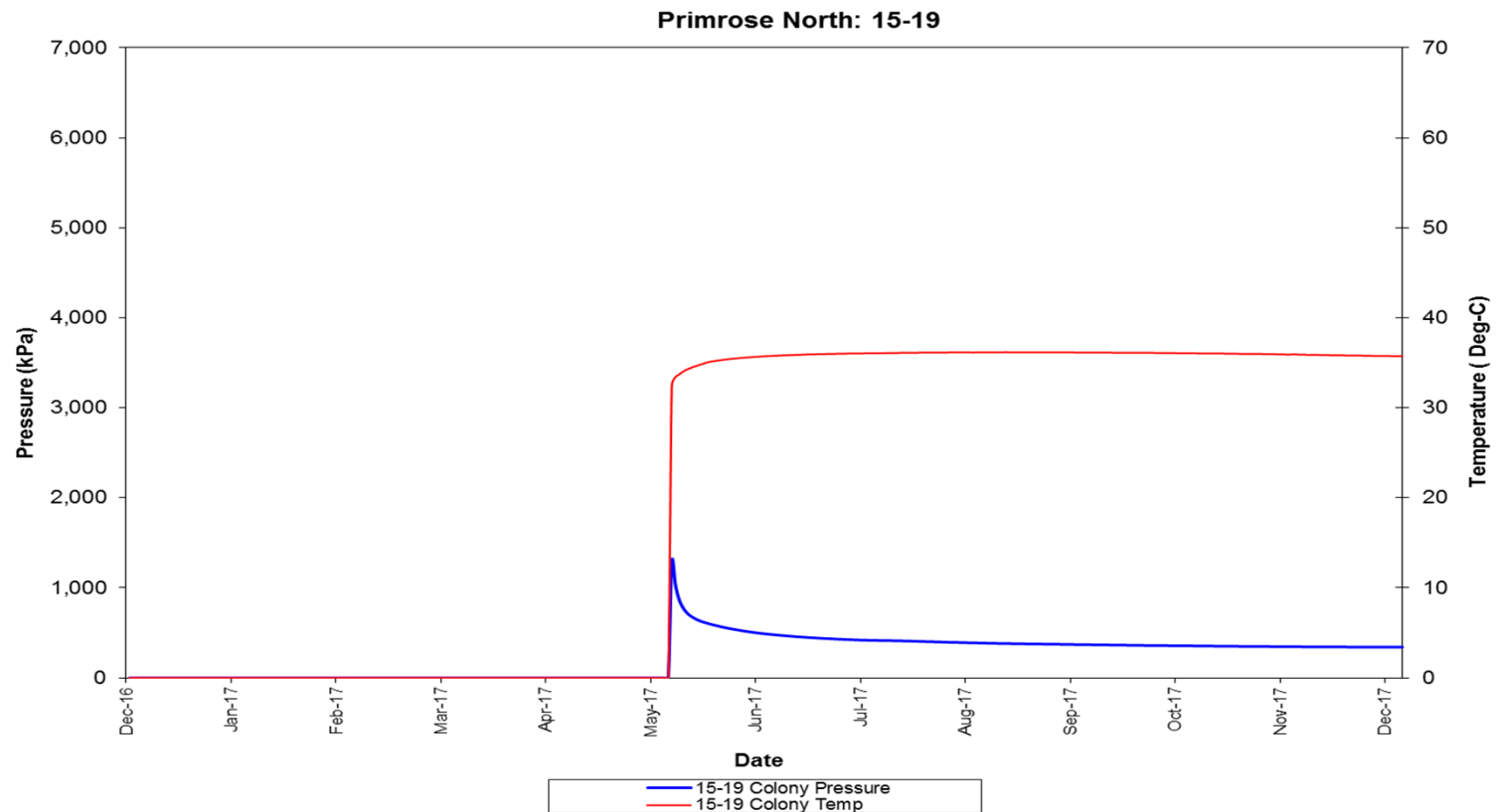
Pressure & Temperature Monitoring – 3B54



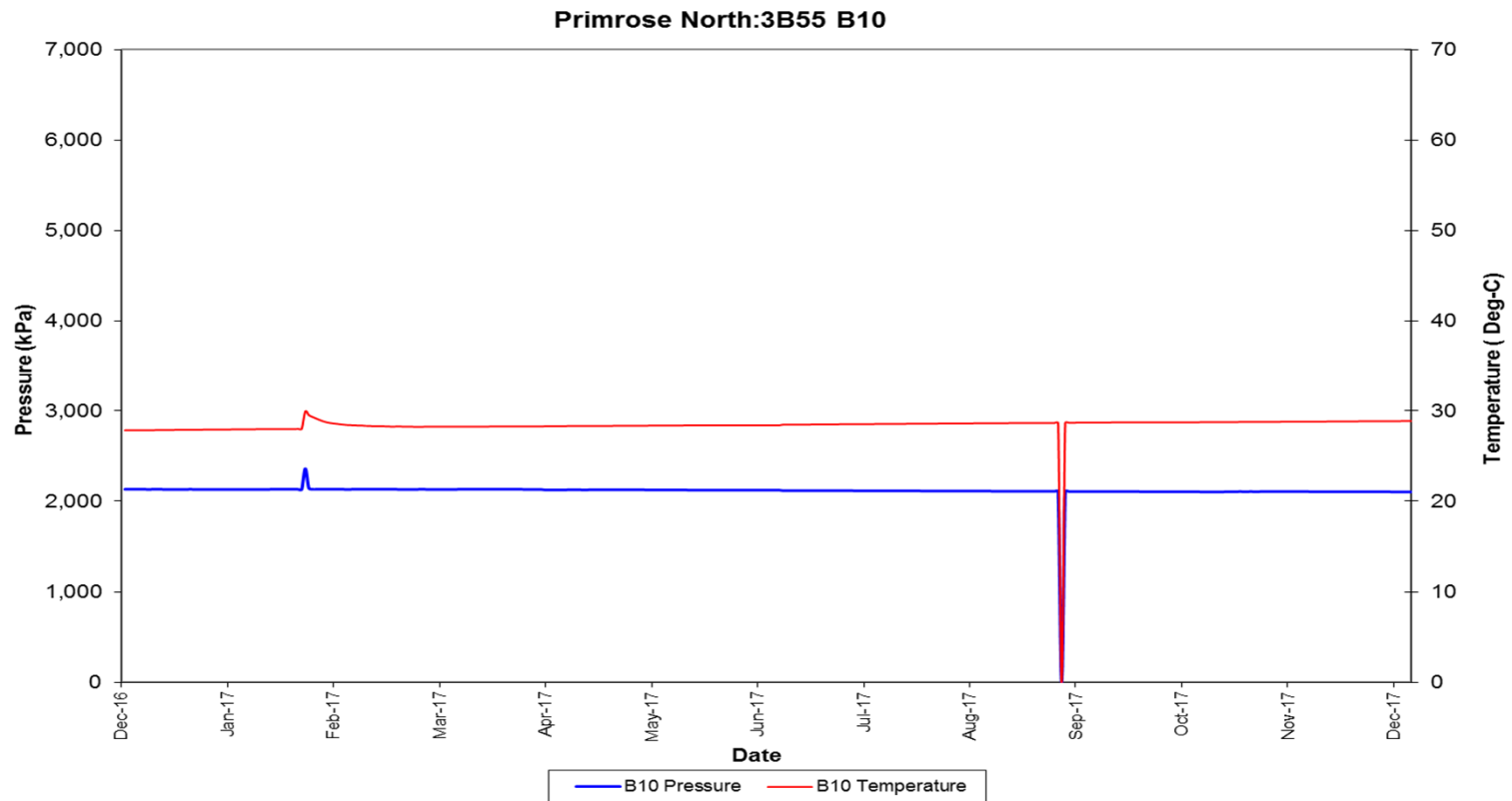
Primrose North: B12/Colony Pressure & Temperature Monitoring – 15-19



Primrose North: B12/Colony Pressure & Temperature Monitoring – 15-19

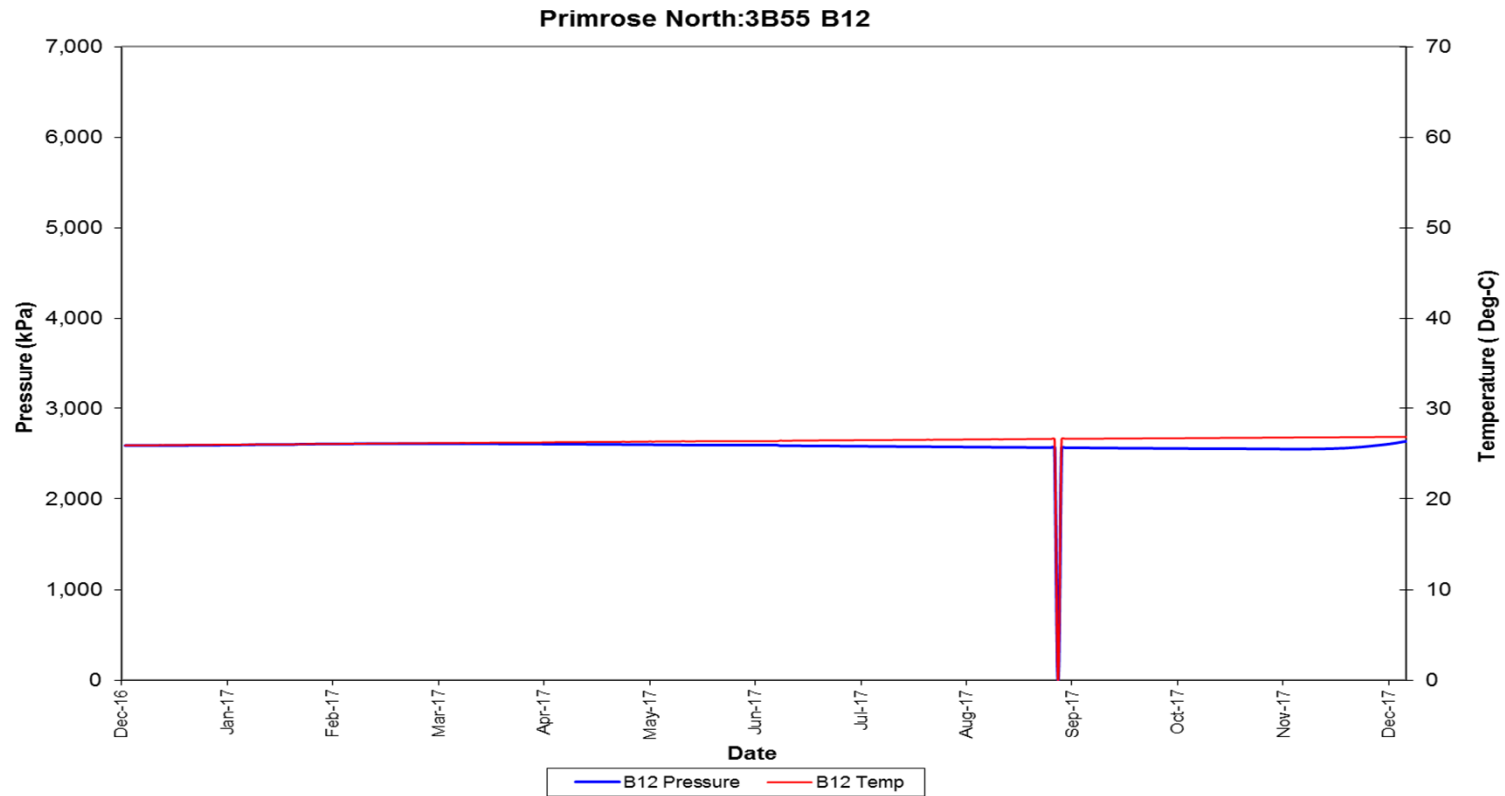


Primrose North B10/B12/Colorado Pressure & Temperature Monitoring – 3B55

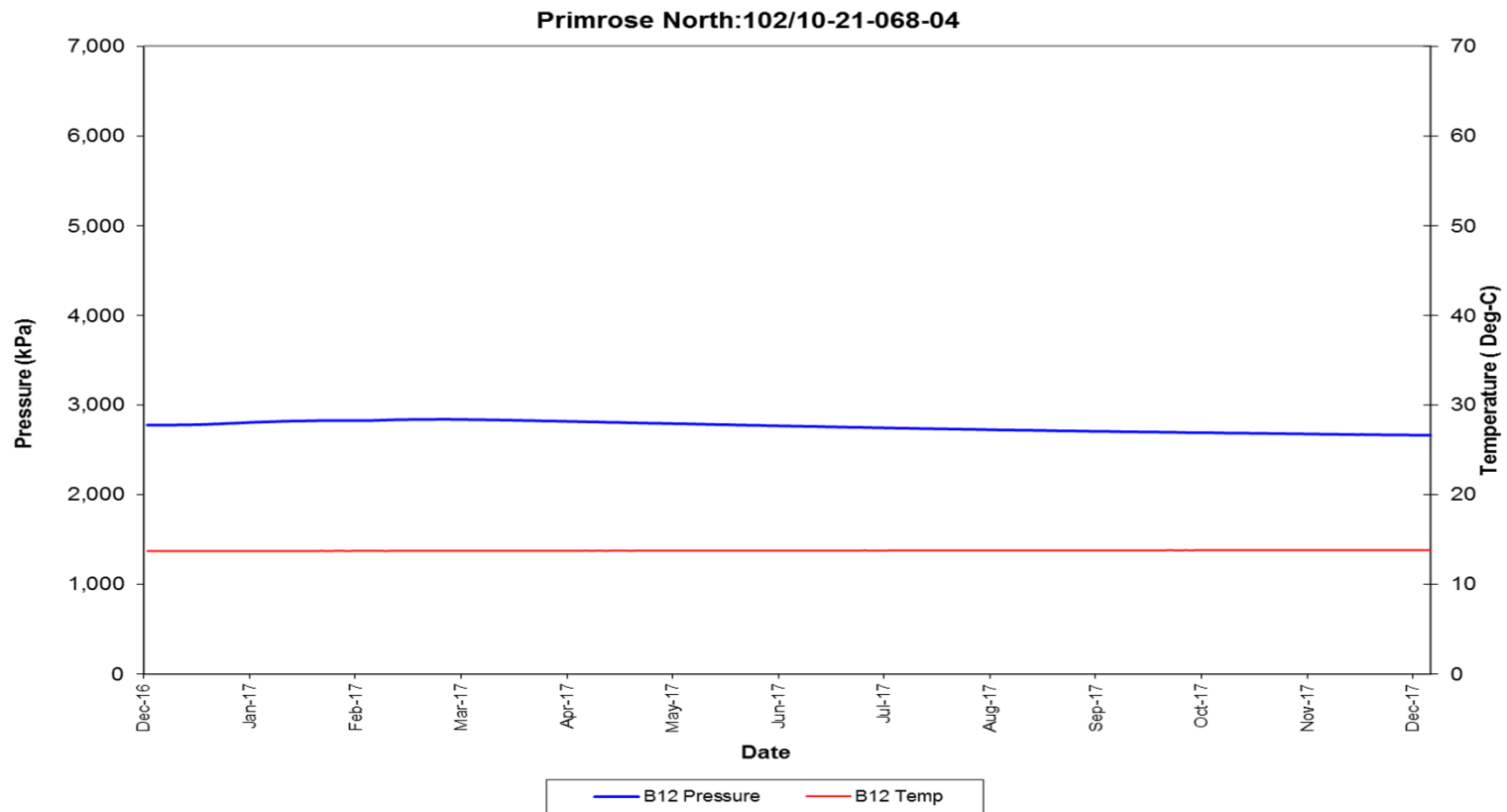


Primrose North B6/B8/B10/B12

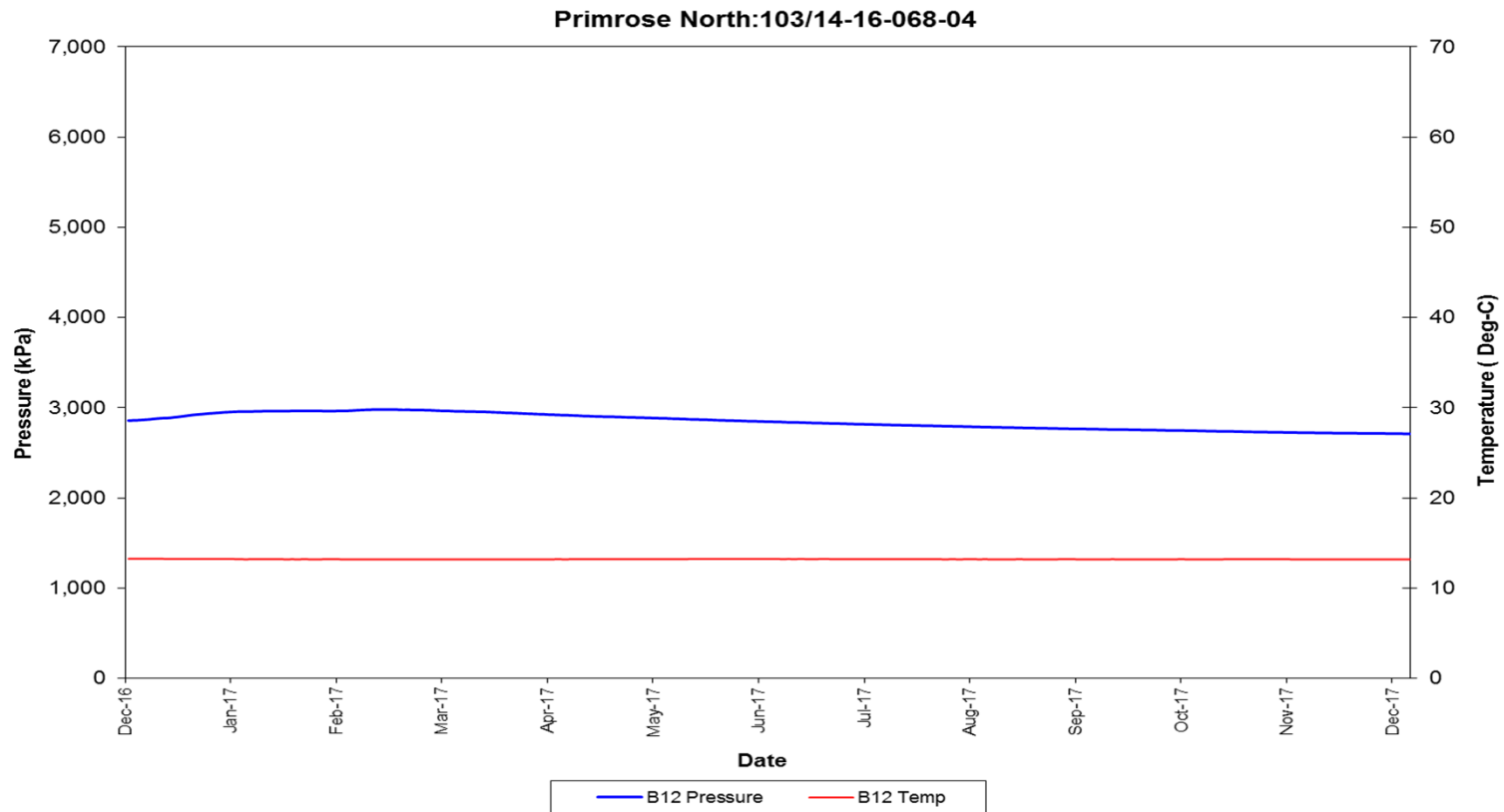
Pressure & Temperature Monitoring – 3B55



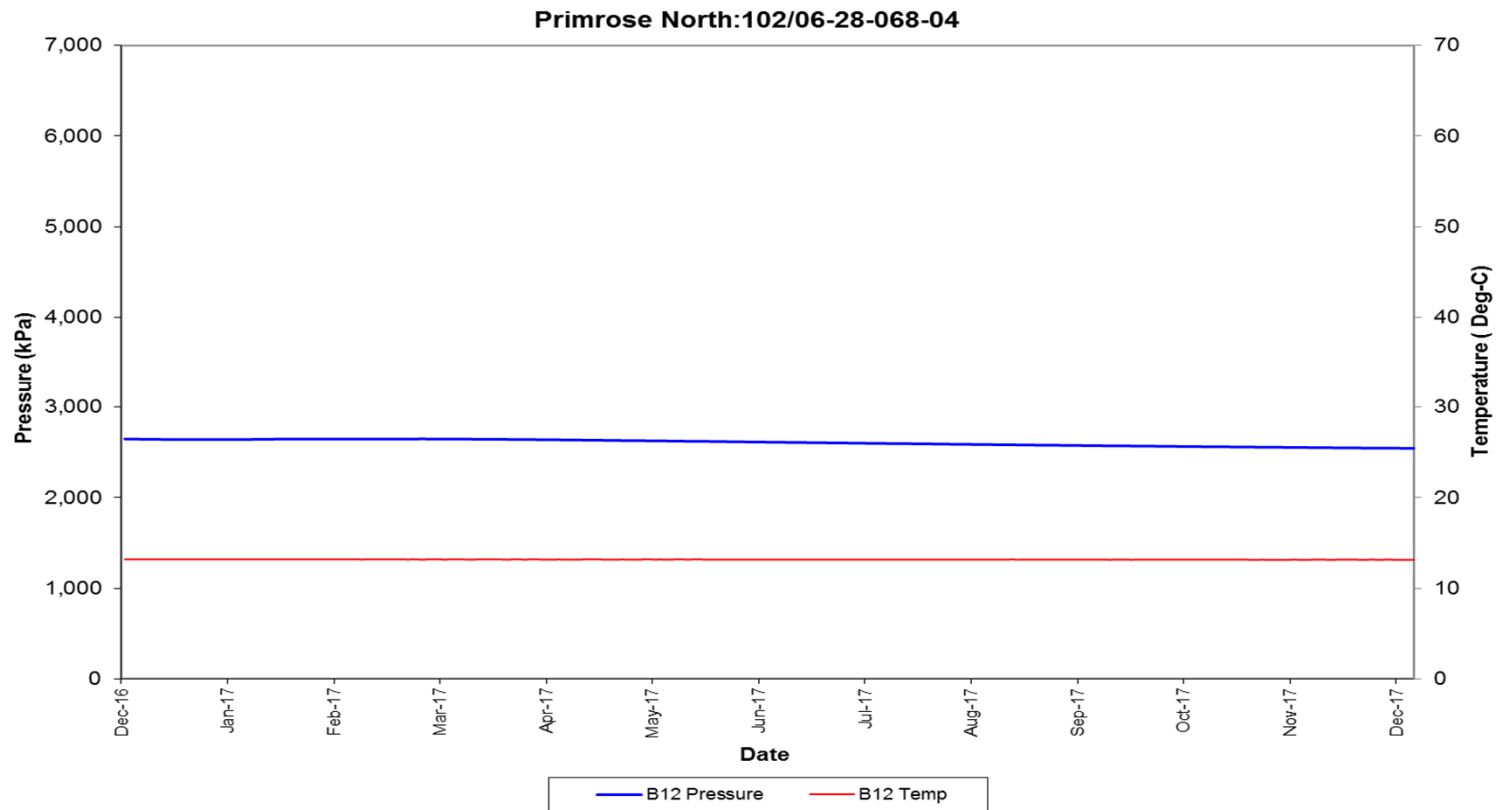
Primrose North B12 Pressure & Temperature Monitoring – 10-21



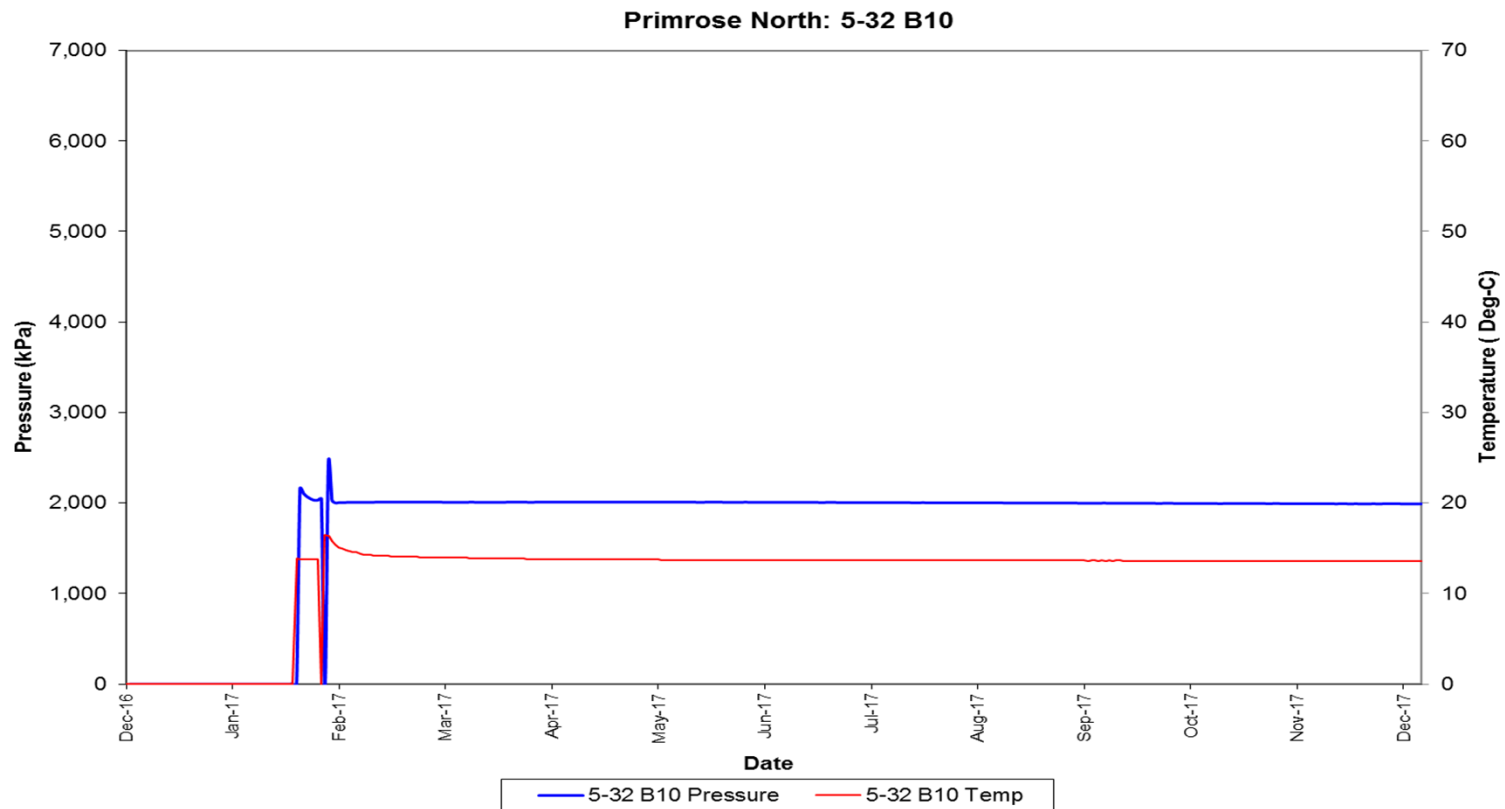
Primrose North B12 Pressure & Temperature Monitoring – 14-16



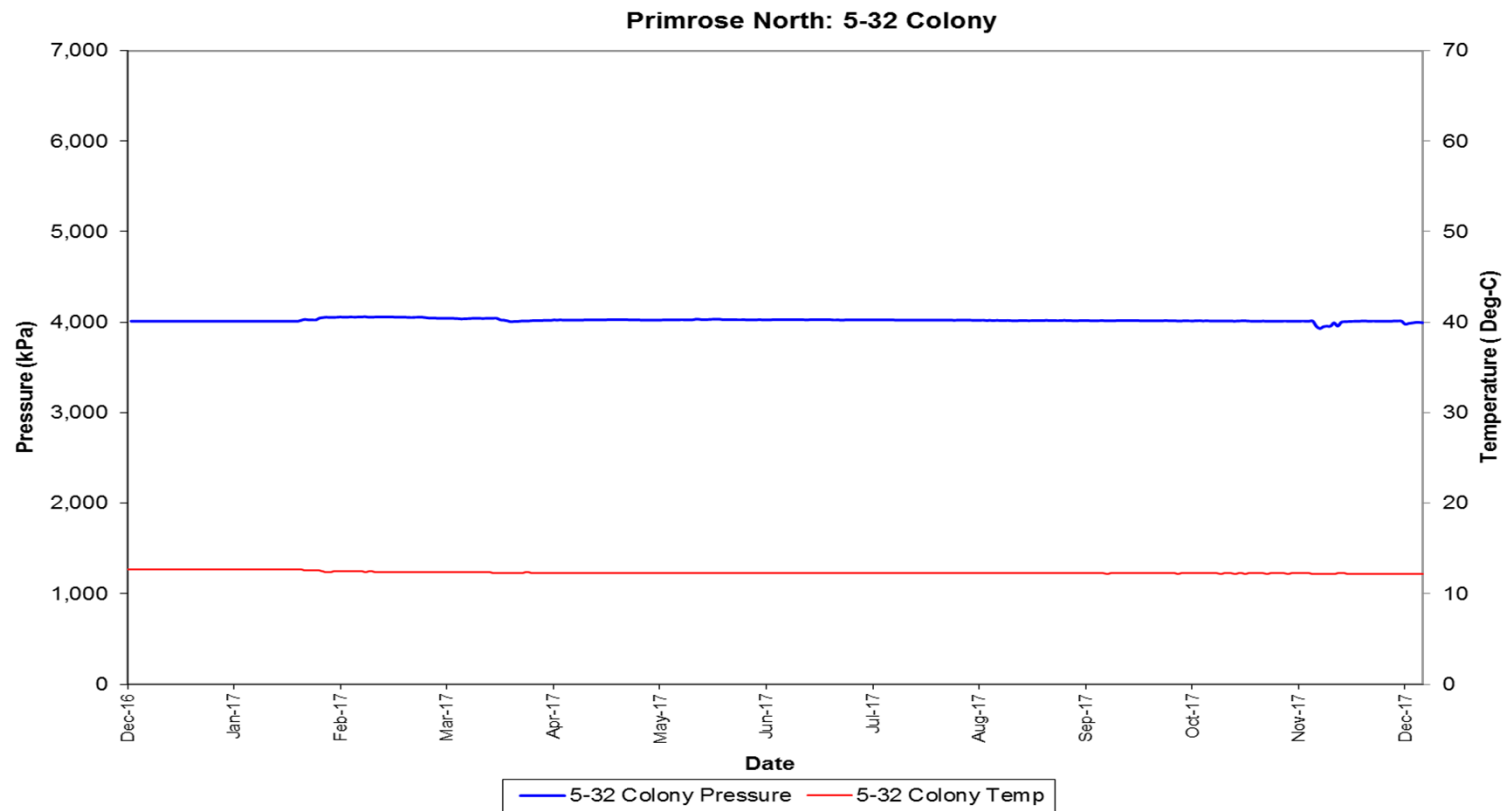
Primrose North B12 Pressure & Temperature Monitoring – 6-28



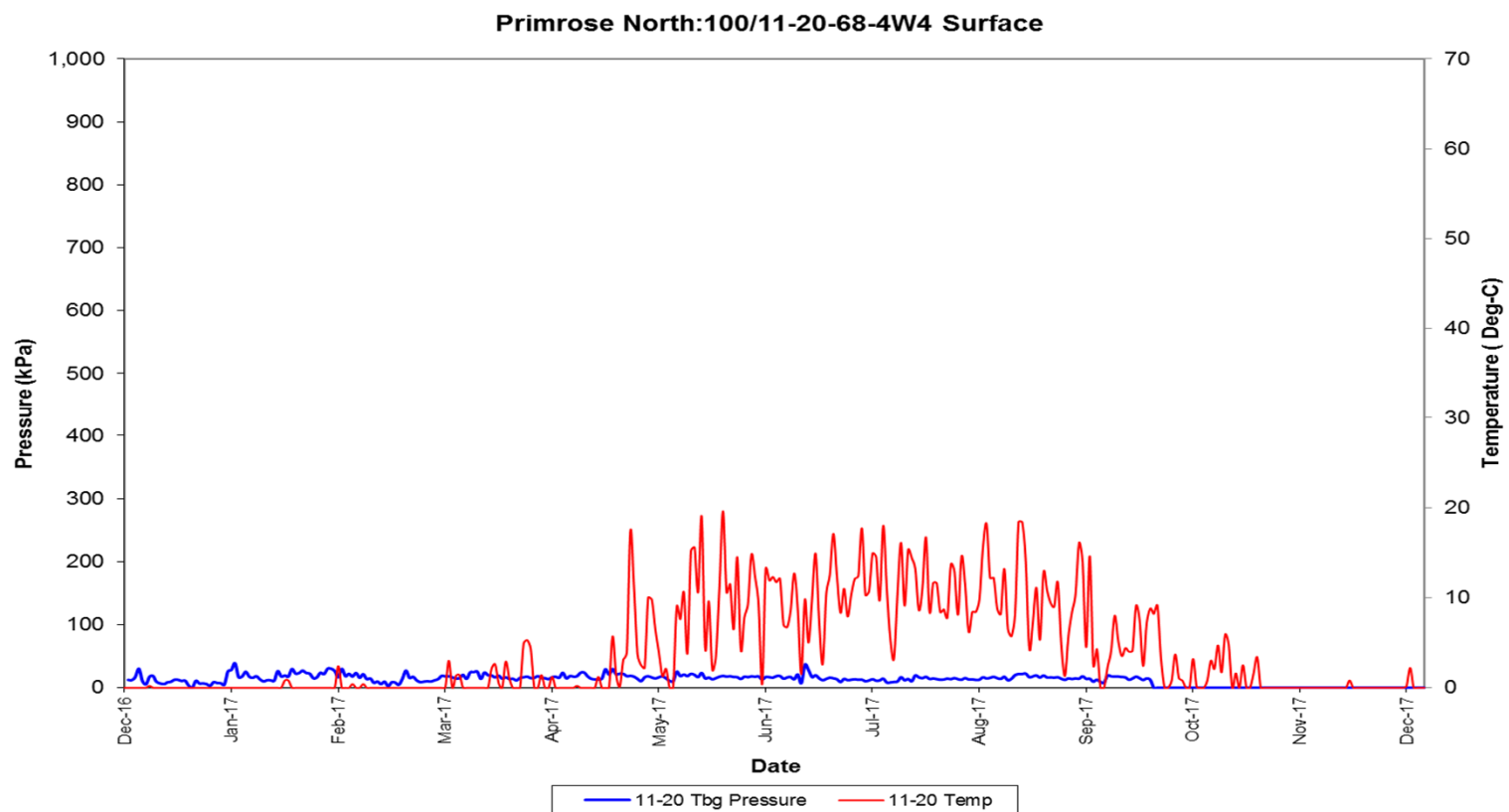
Primrose North B10 Pressure & Temperature Monitoring – 5-32



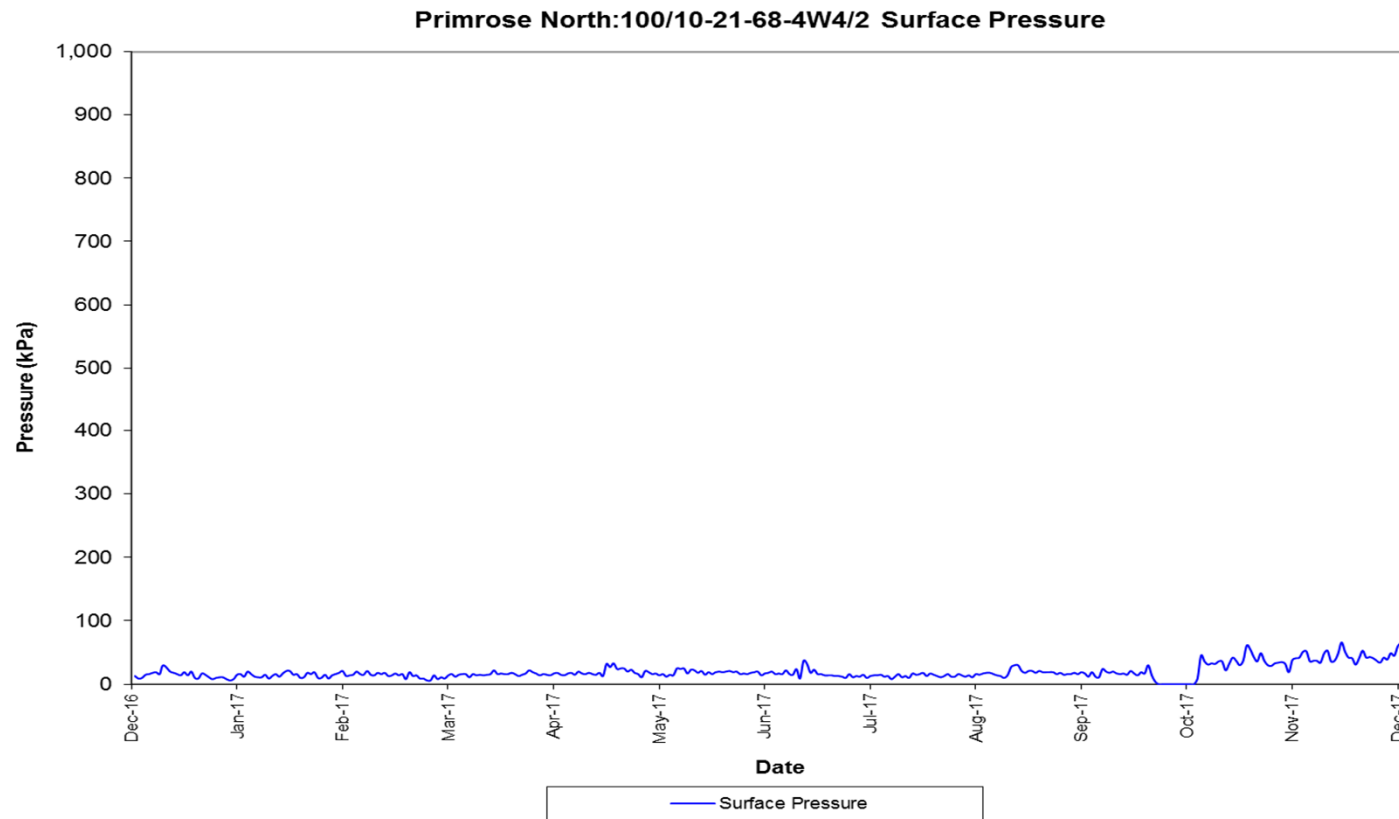
Primrose North Colony Pressure & Temperature Monitoring – 5-32



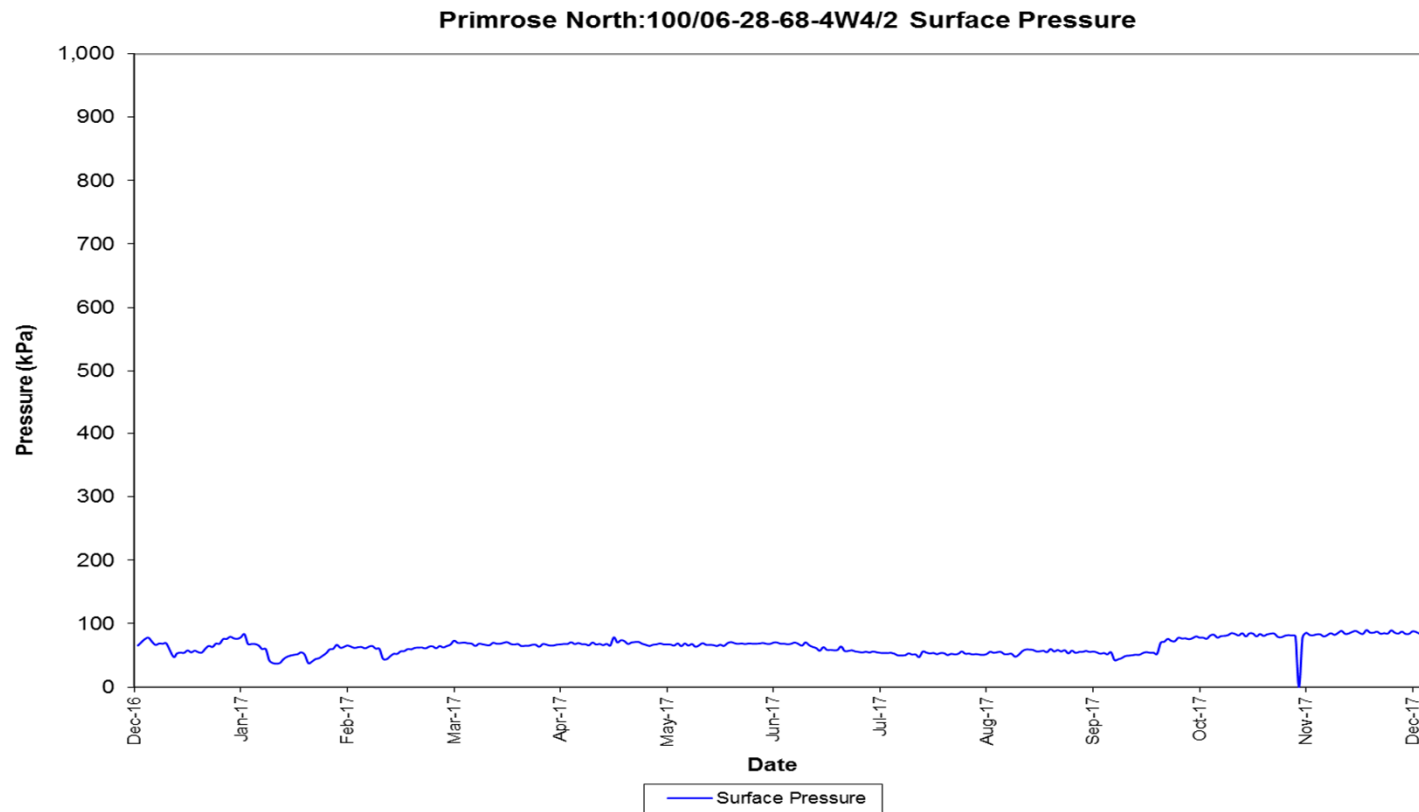
Colony Gas Wells- Surface Monitoring – 11-20



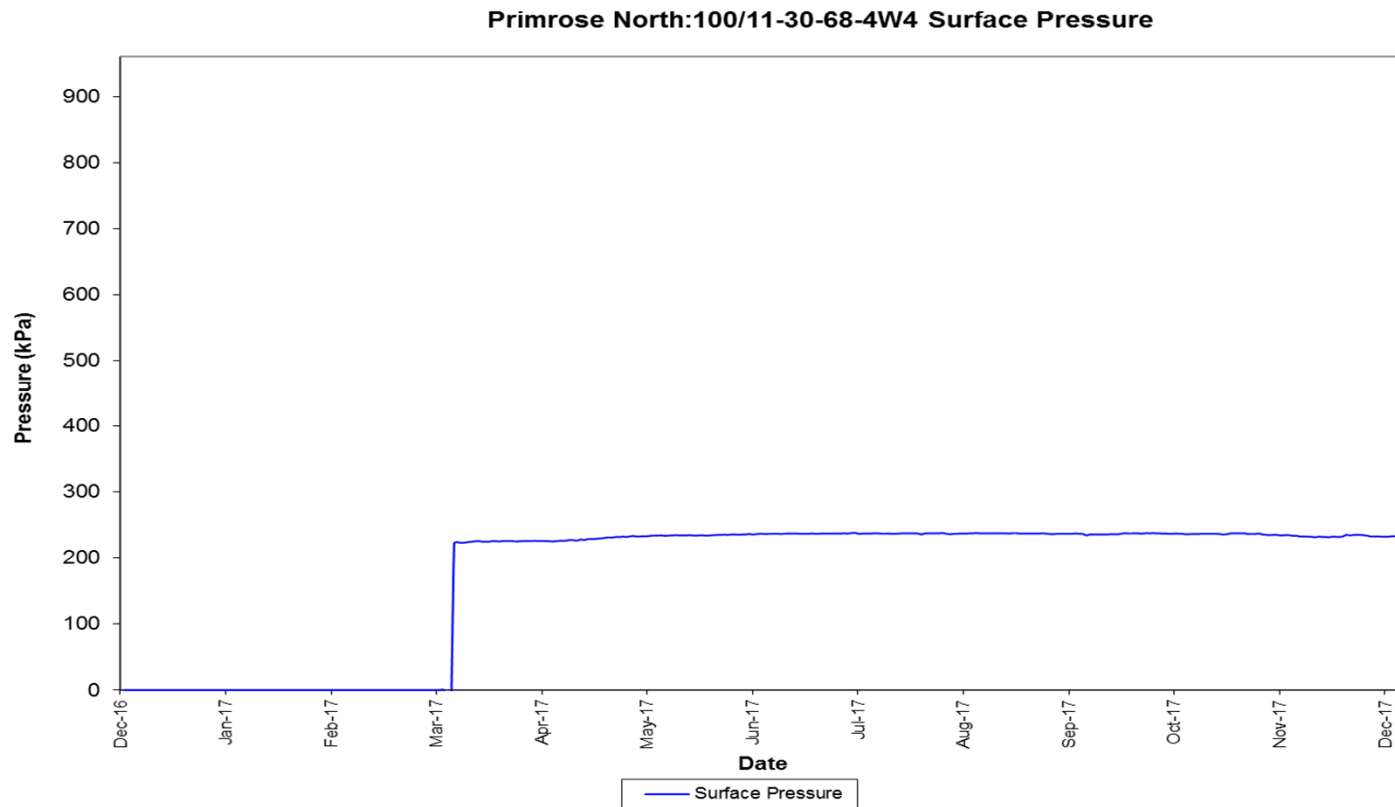
Colony Gas Wells- Surface Pressure Monitoring – 10-21



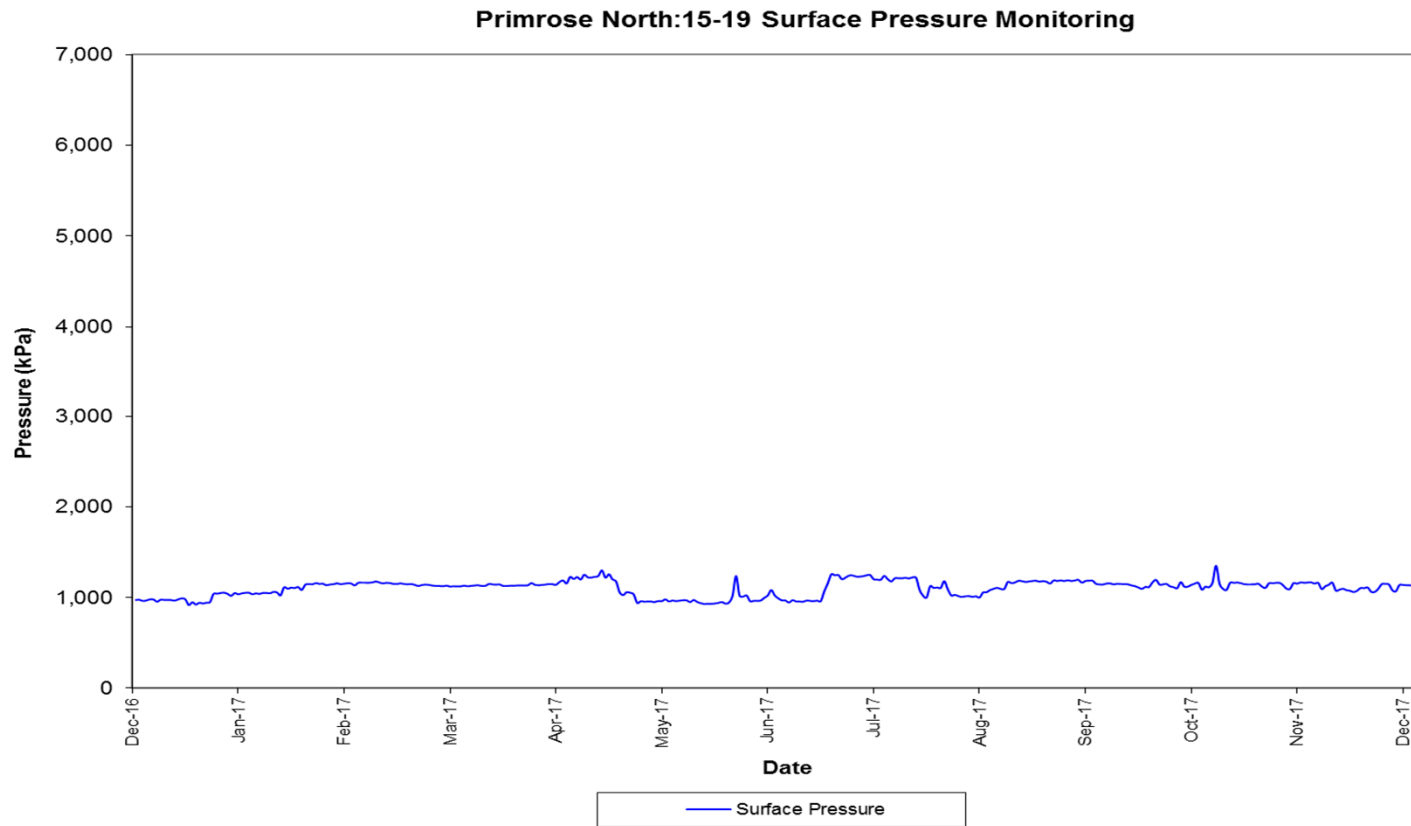
Colony Gas Wells- Surface Pressure Monitoring – 6-28



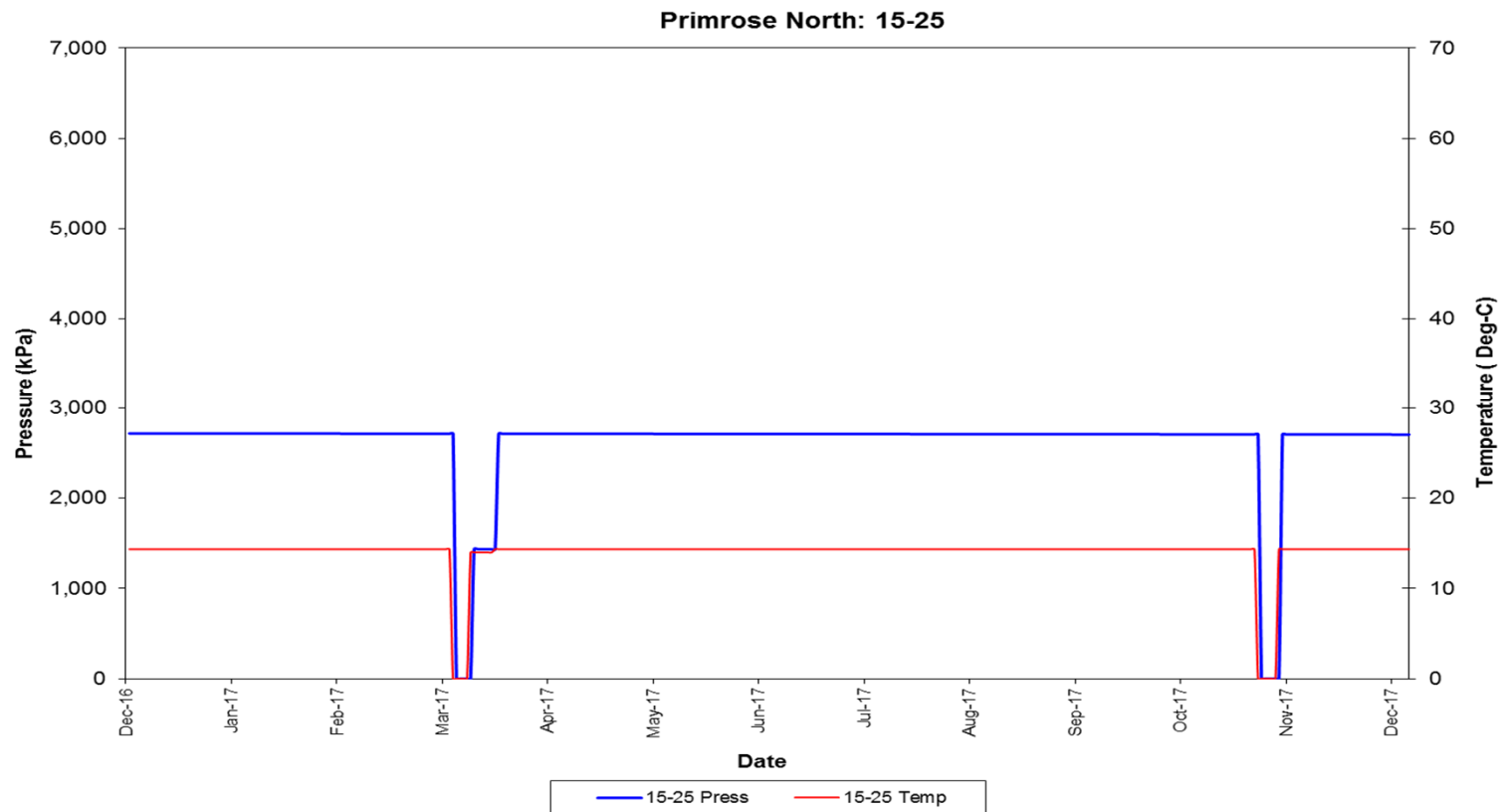
Colony Gas Wells- Surface Pressure Monitoring – 11-30



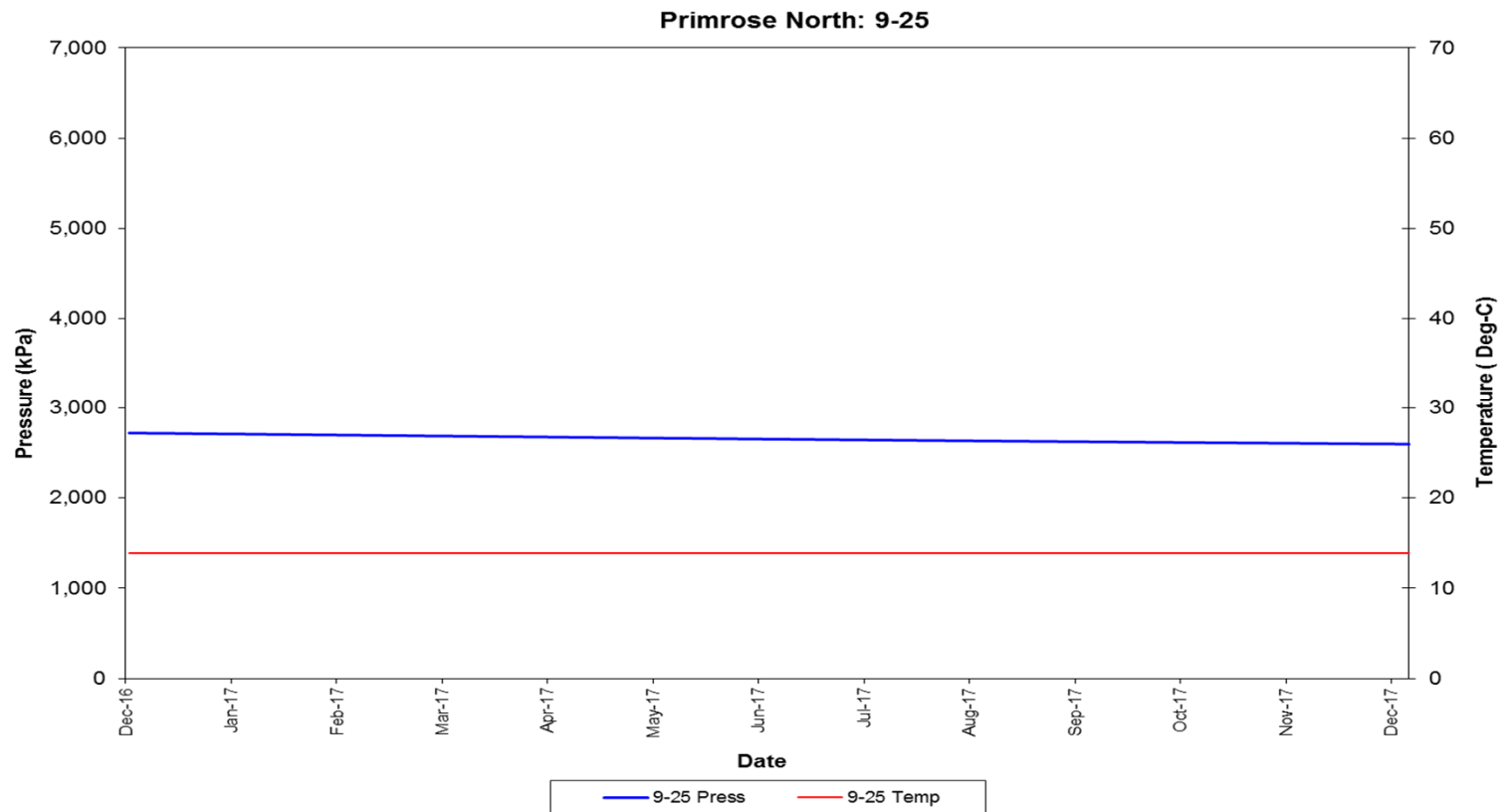
Primrose North Surface Pressure Monitoring – 15-19



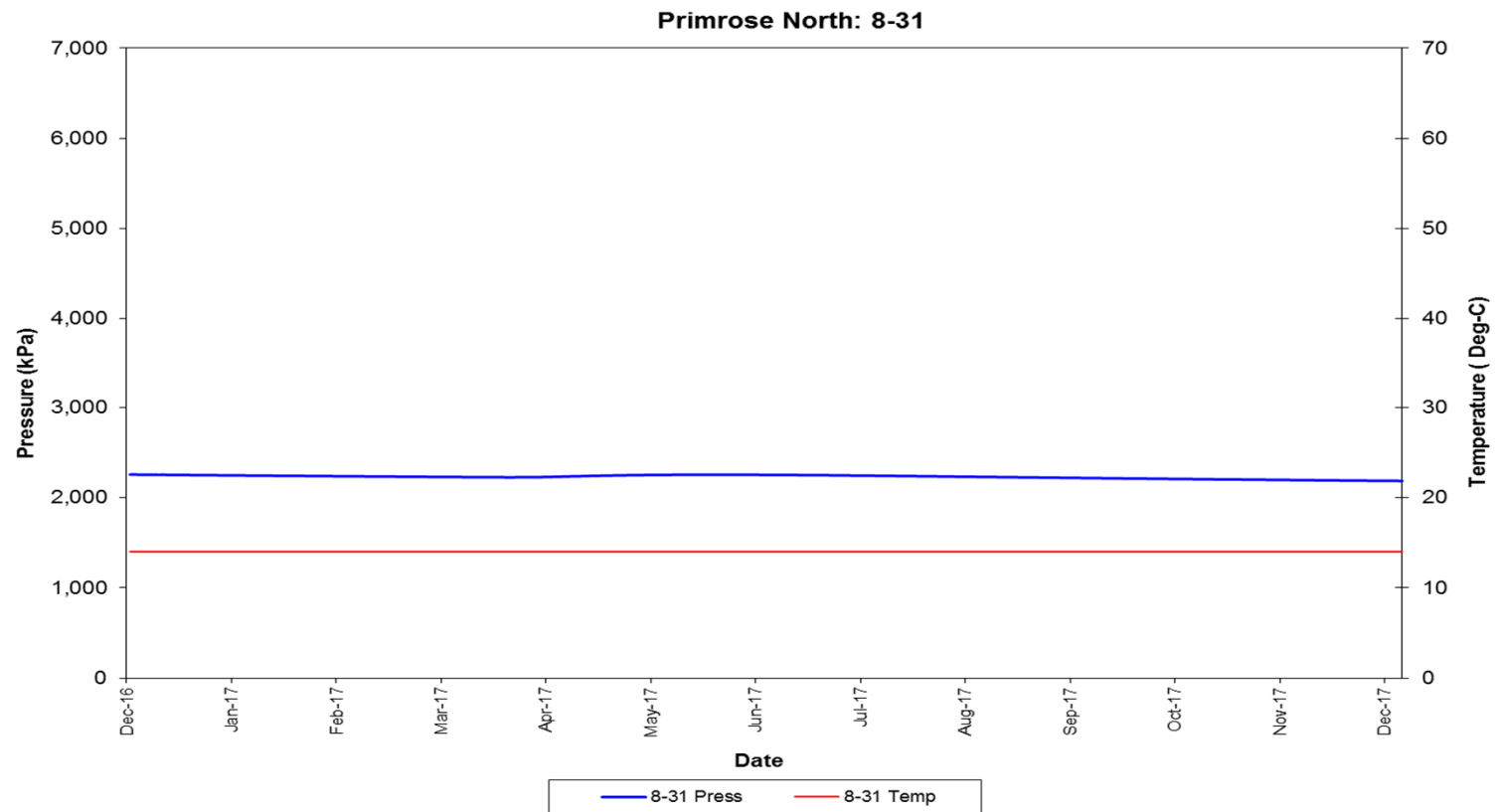
Primrose North: Pressure & Temperature Monitoring – 15-25



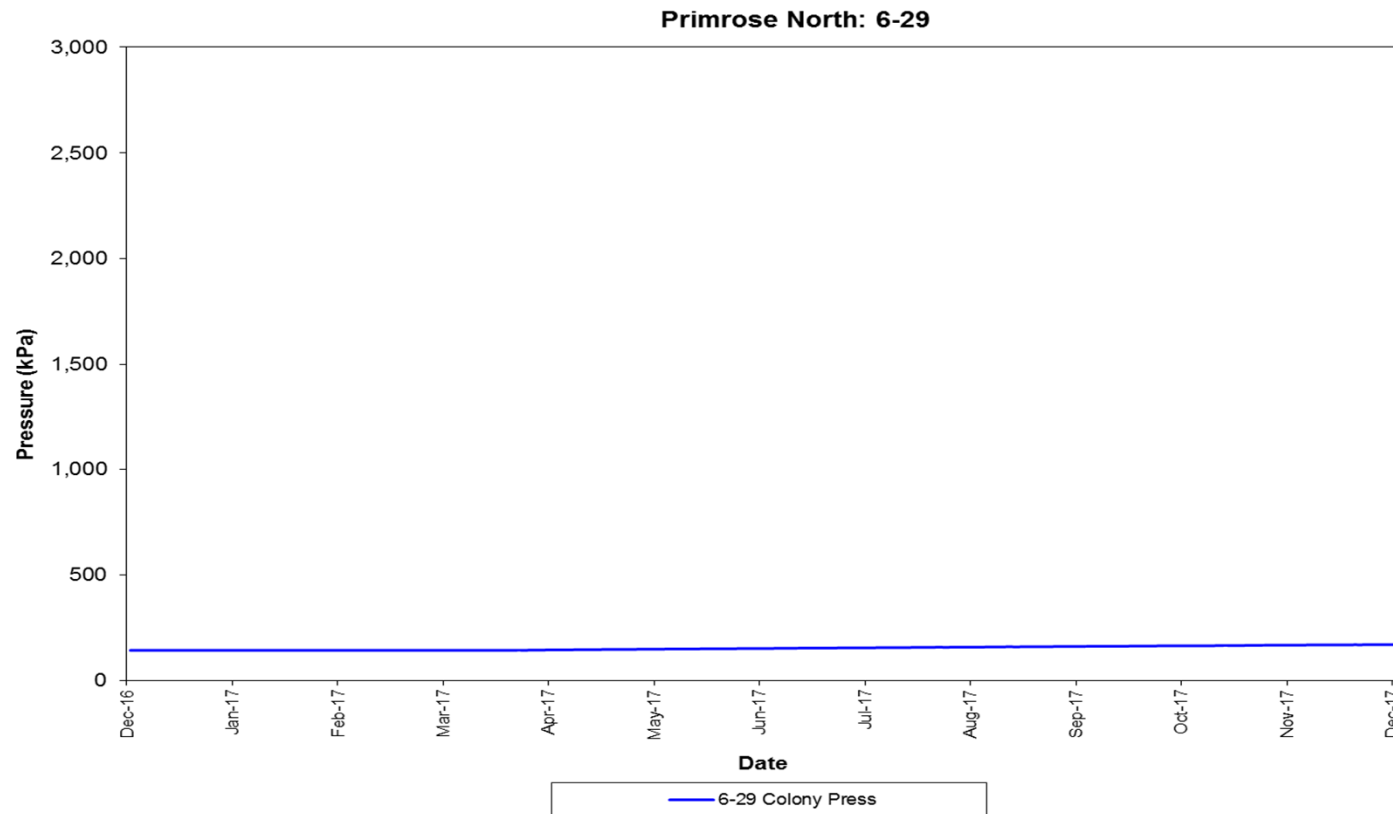
Primrose North: Pressure & Temperature Monitoring – 9-25



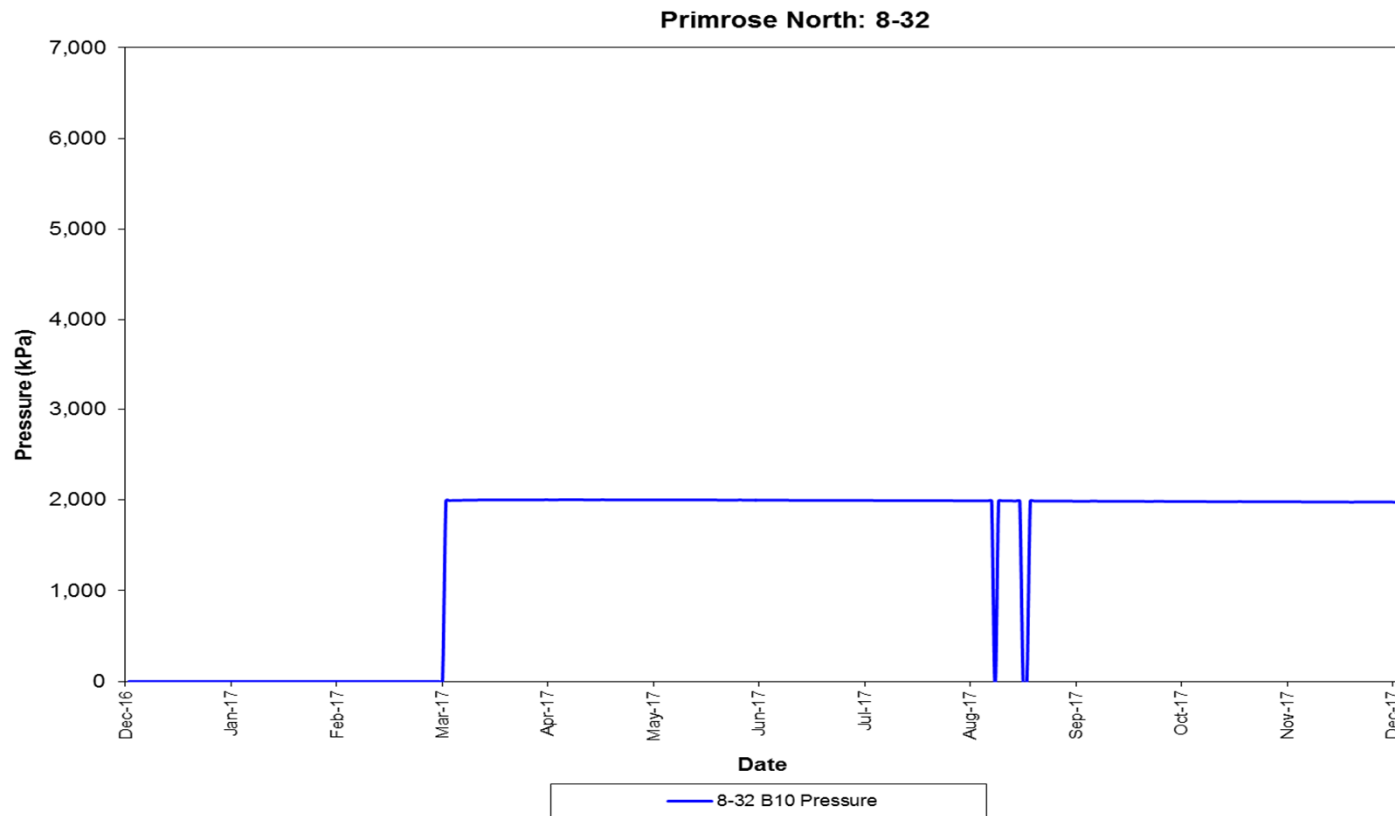
Primrose North: Pressure & Temperature Monitoring – 8-31



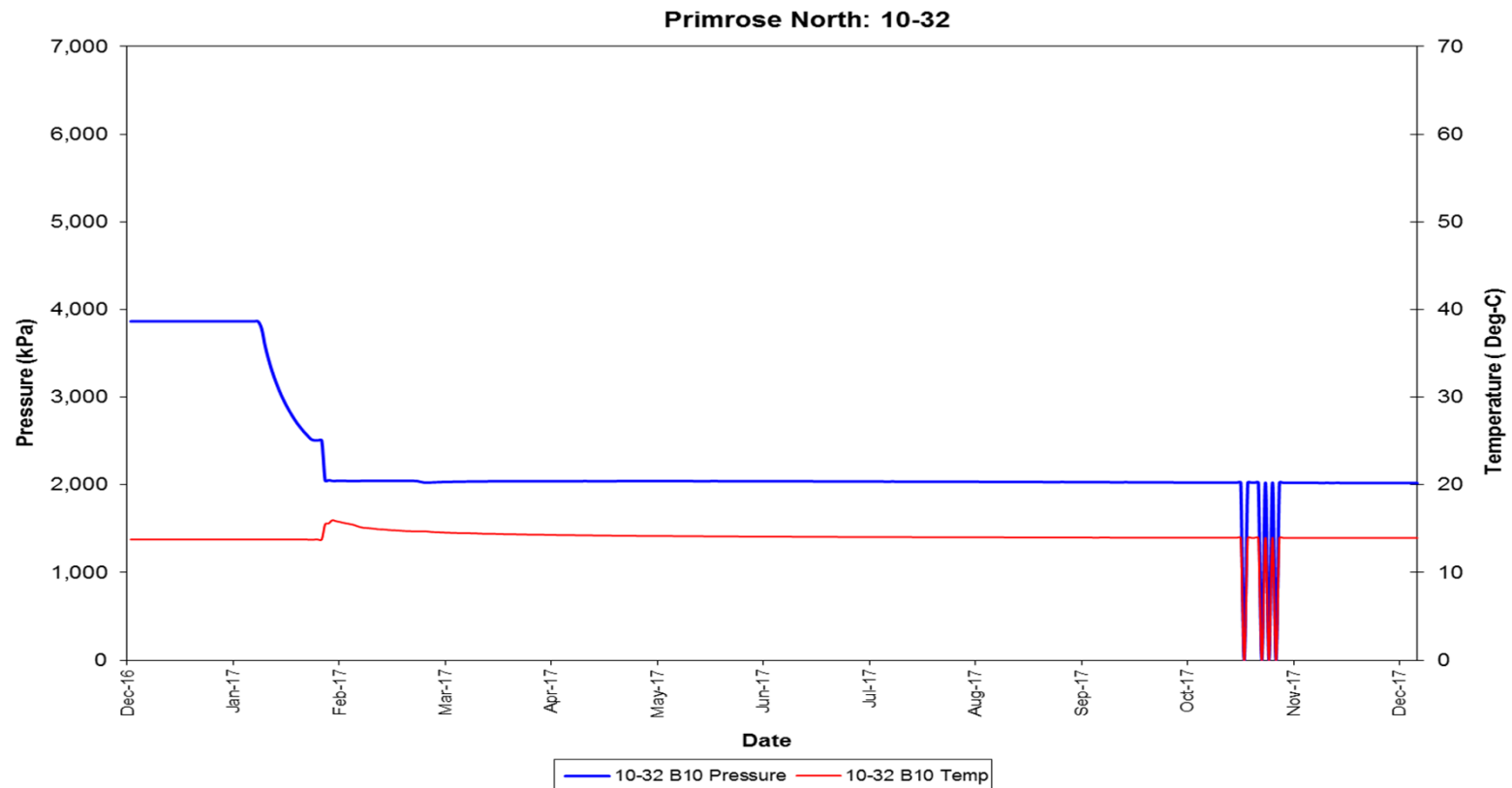
Primrose North: Colony Pressure Monitoring – 6-29



Primrose North: B10 Pressure Monitoring – 8-32

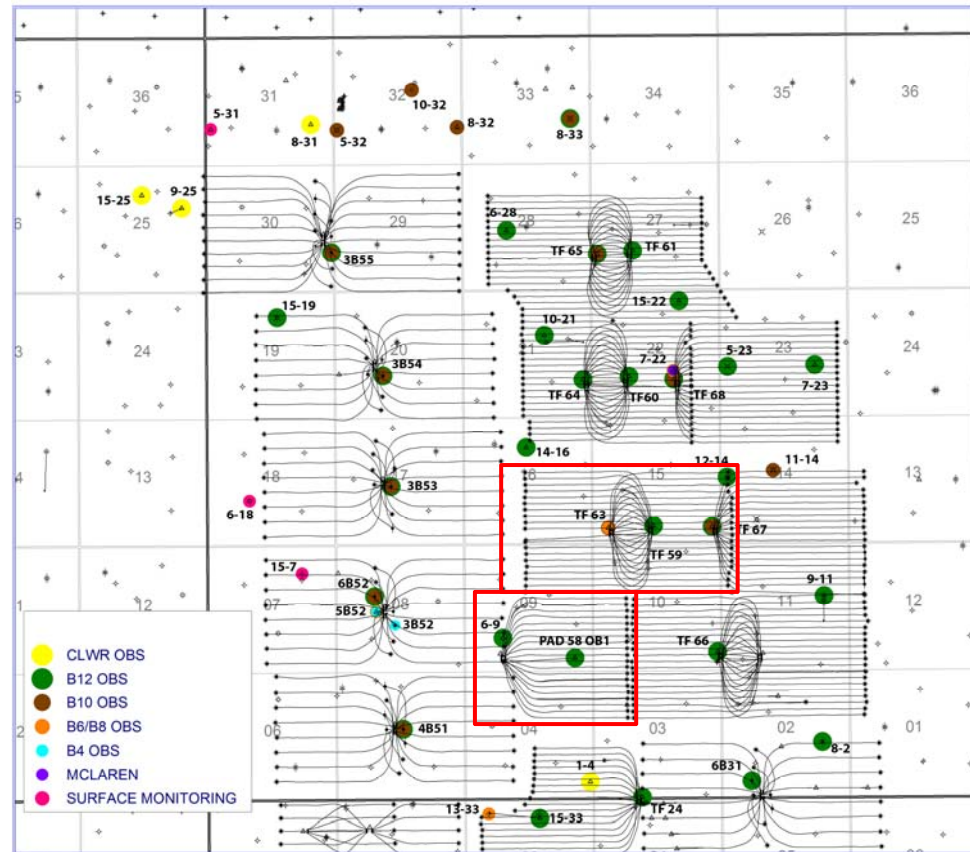


Primrose North: B10 Pressure & Temperature Monitoring – 10-32



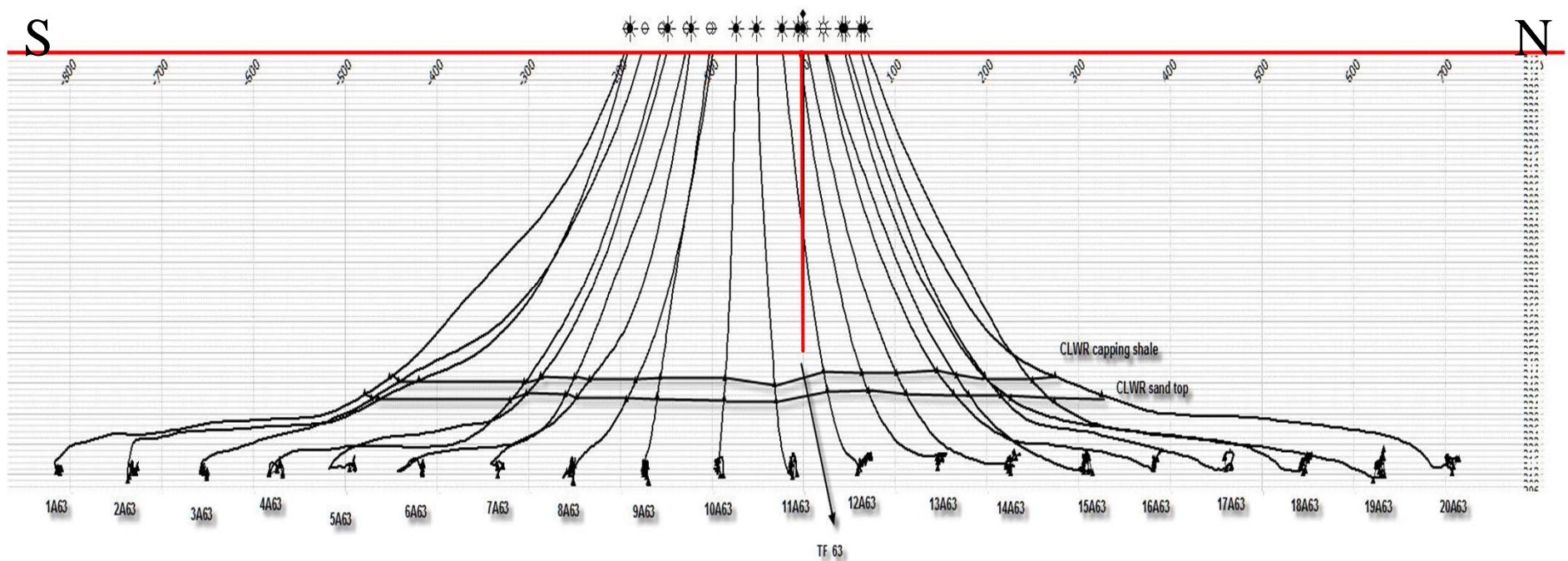
Observation Wells - Primrose North

Phases 63,59 and 58



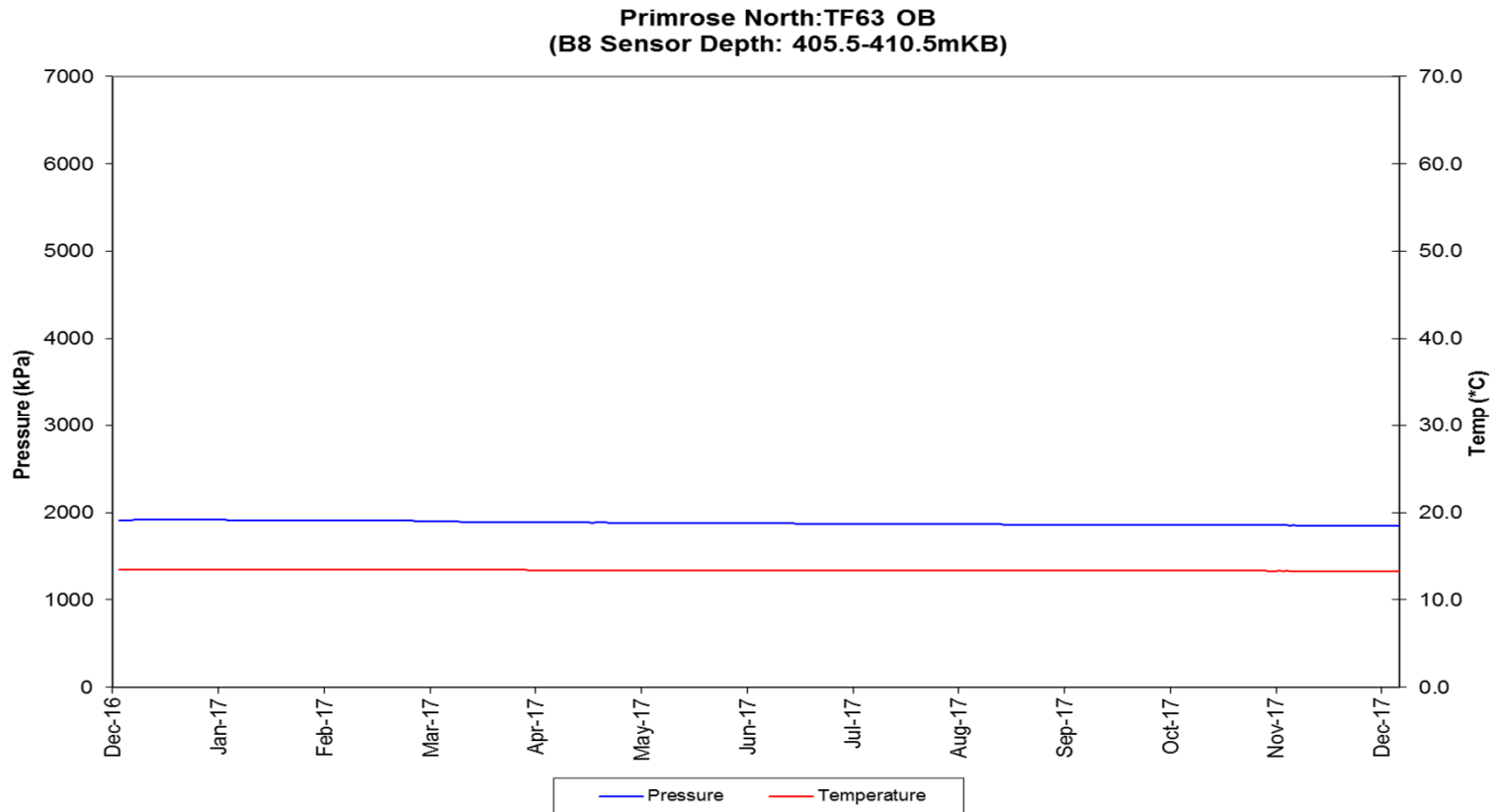
Primrose North B8/B10

Pressure & Temperature Monitoring – TF 63



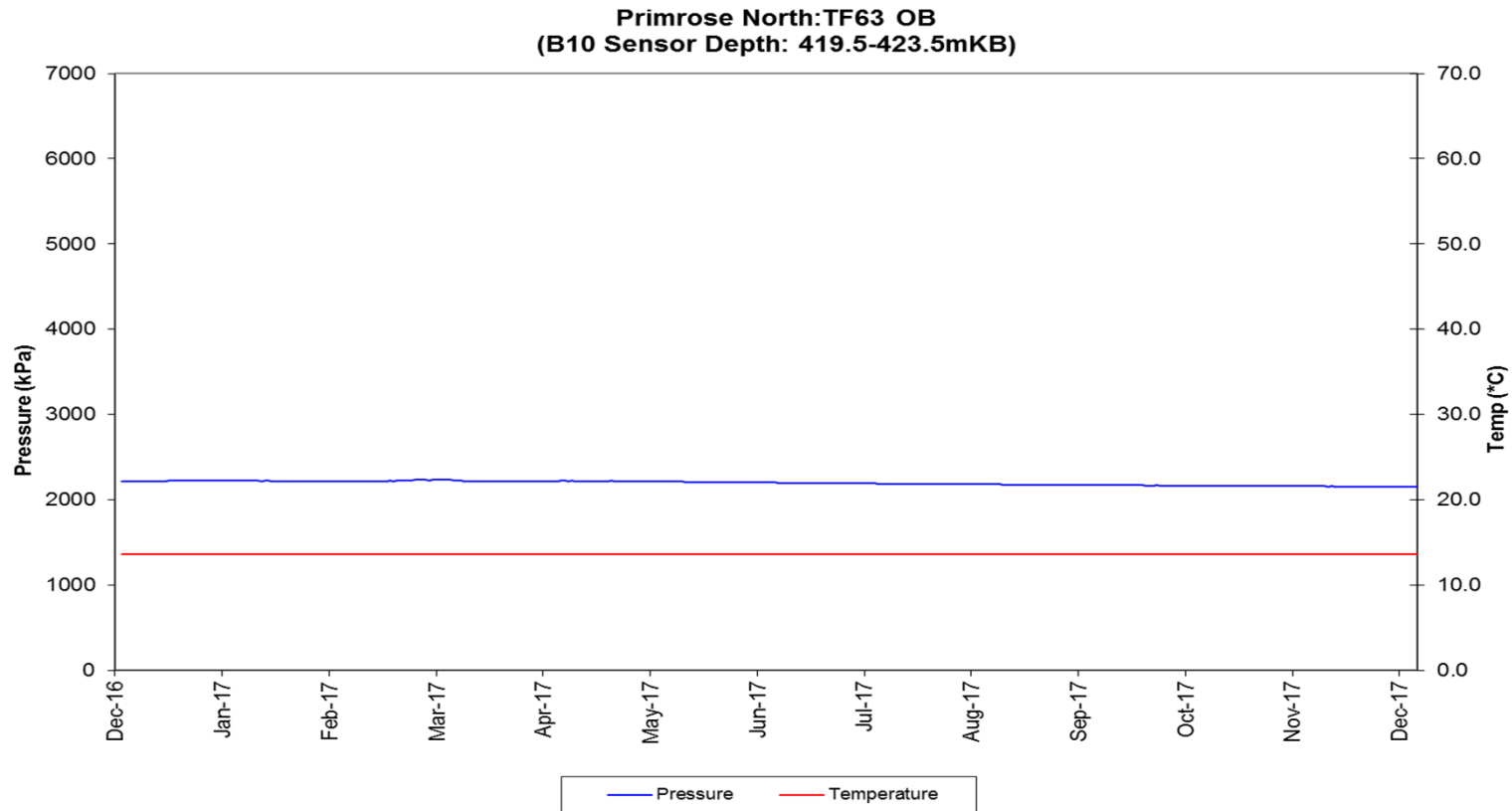
Primrose North B8/B10

Pressure & Temperature Monitoring – TF 63 OBS



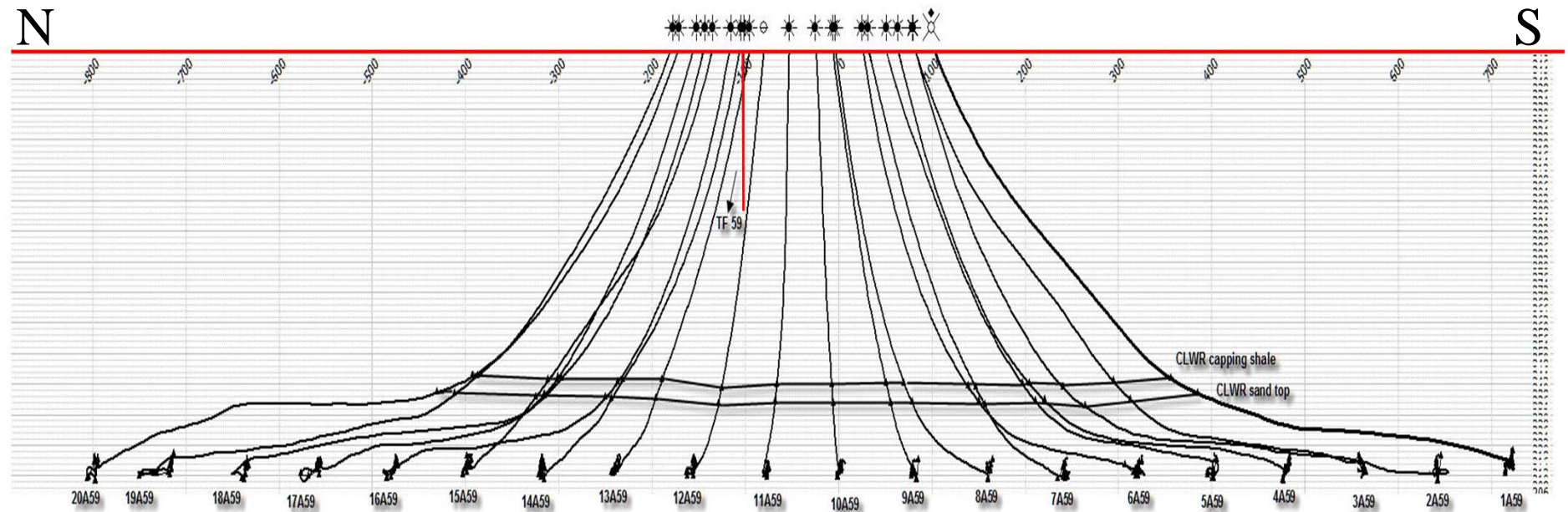
Primrose North B8/B10

Pressure & Temperature Monitoring – TF 63 OBS



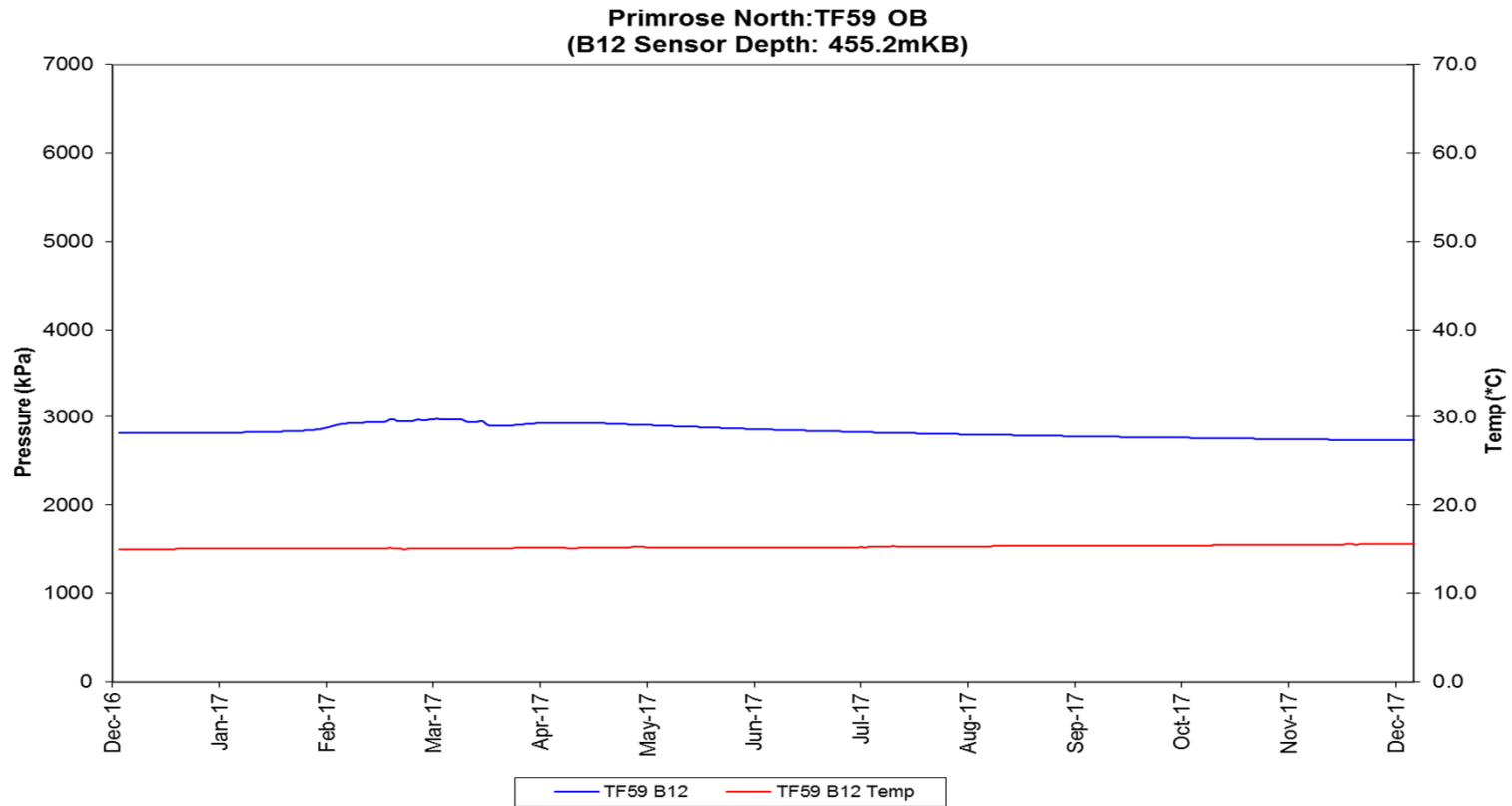
Primrose North B12

Pressure & Temperature Monitoring – TF 59



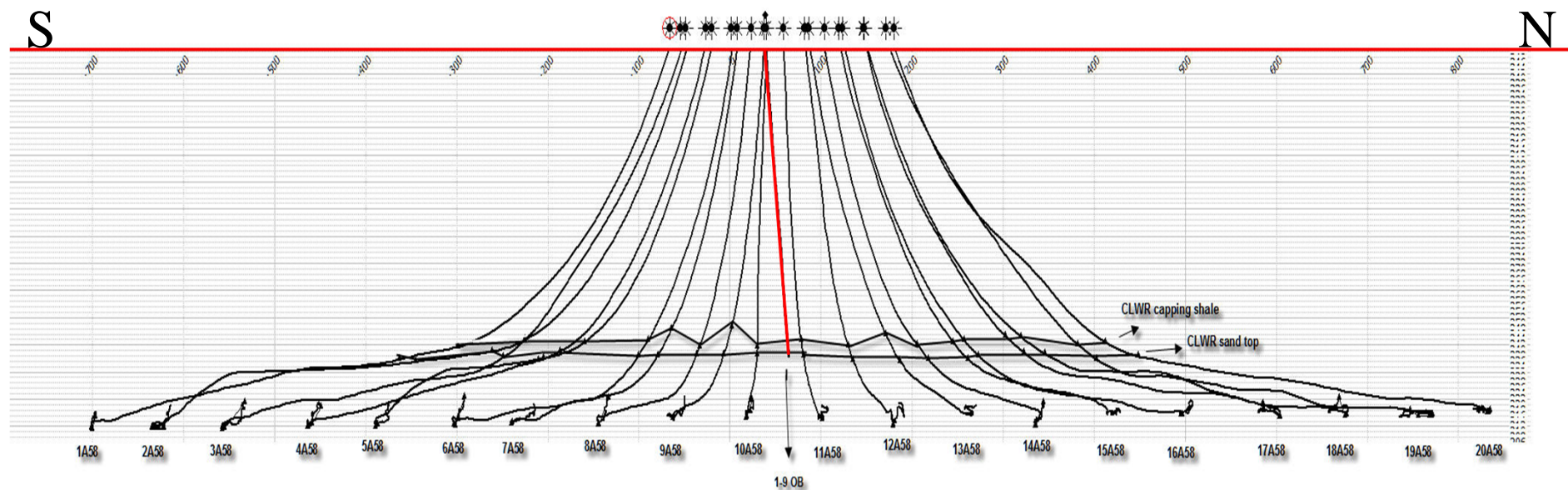
Primrose North B12

Pressure & Temperature Monitoring – TF 59 OBS



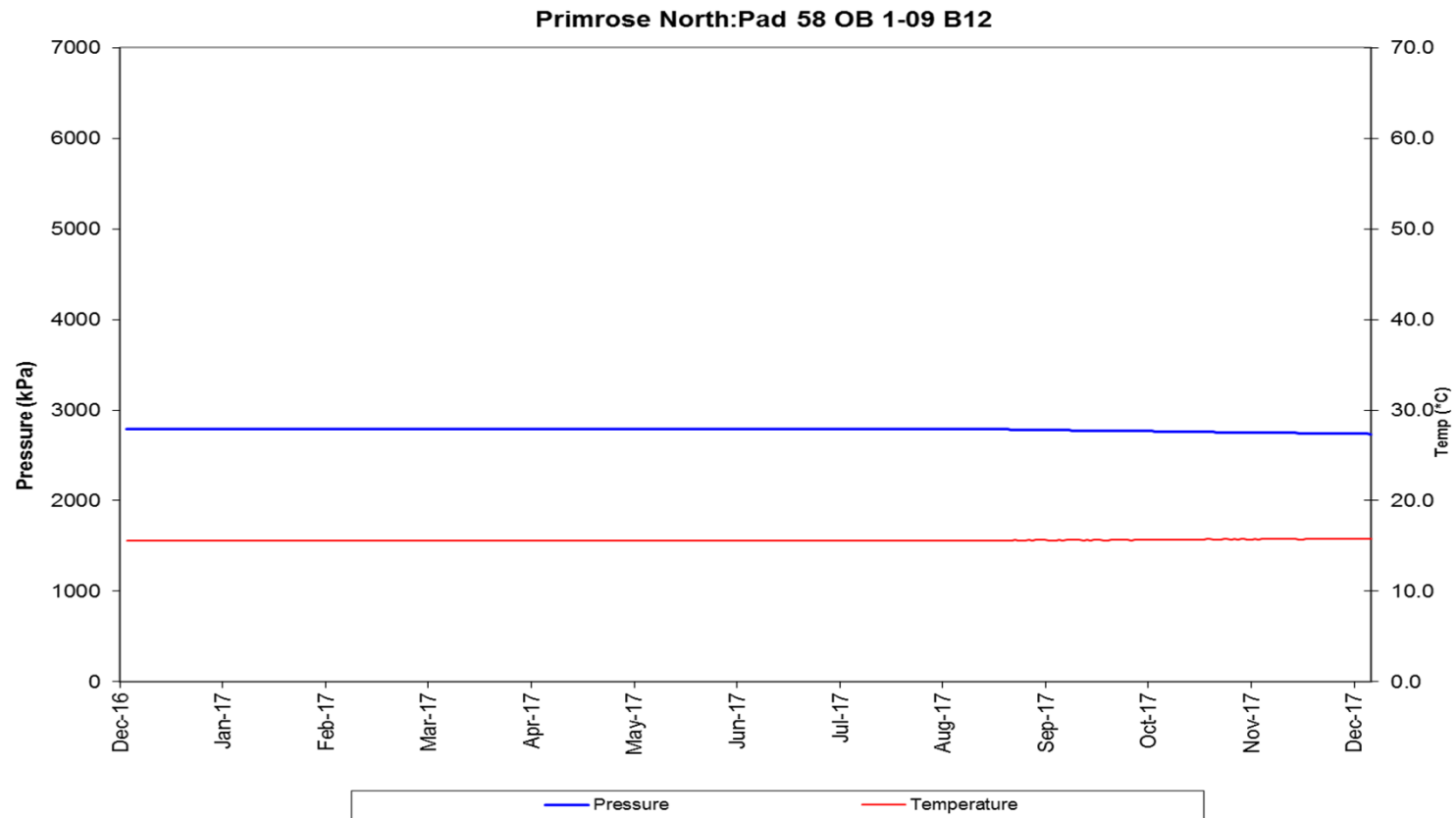
Primrose North B12

Pressure & Temperature Monitoring – Pad 58 OB1 (1-9)



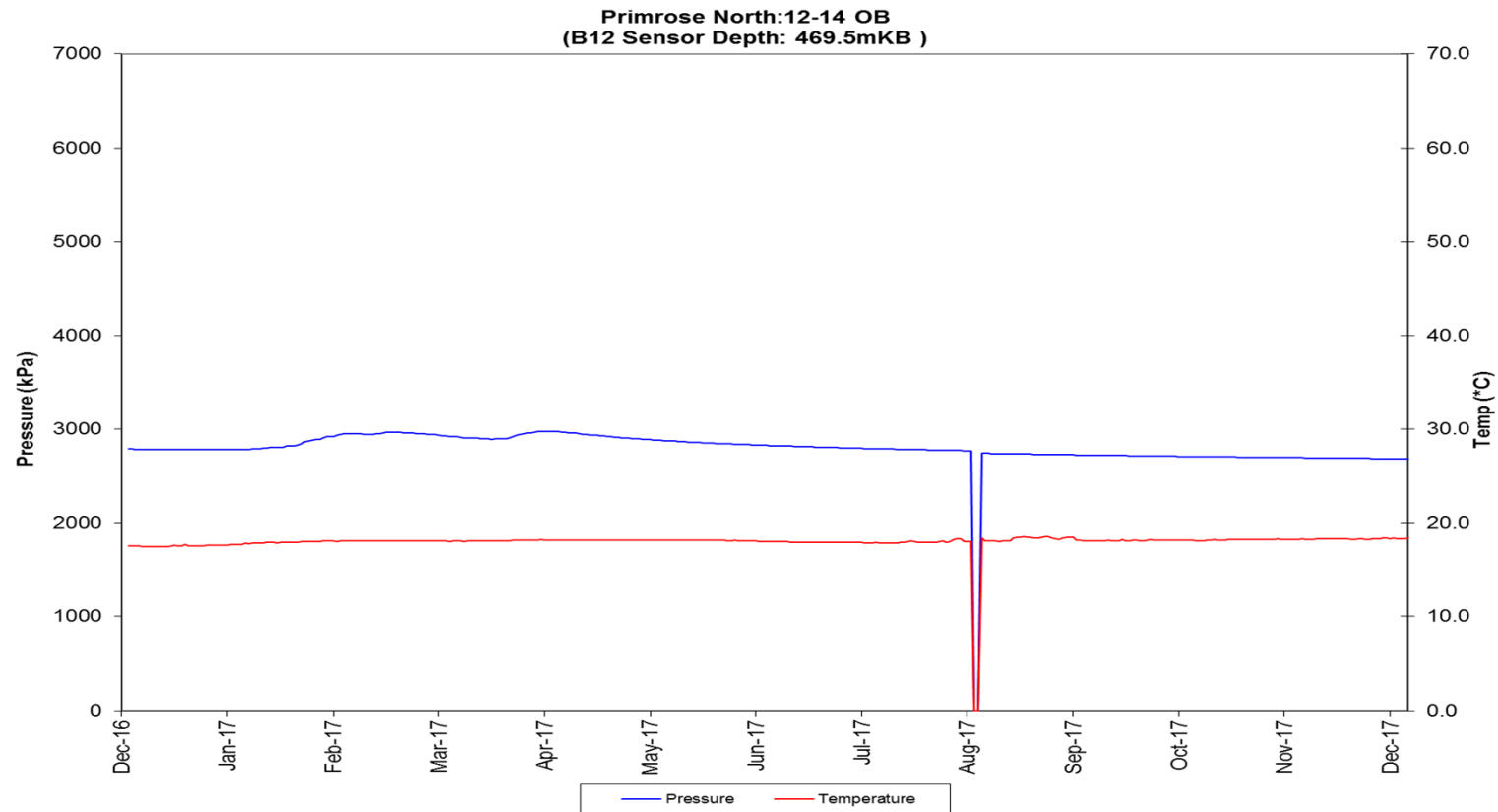
Primrose North B12

Pressure & Temperature Monitoring – 1-9 OBS

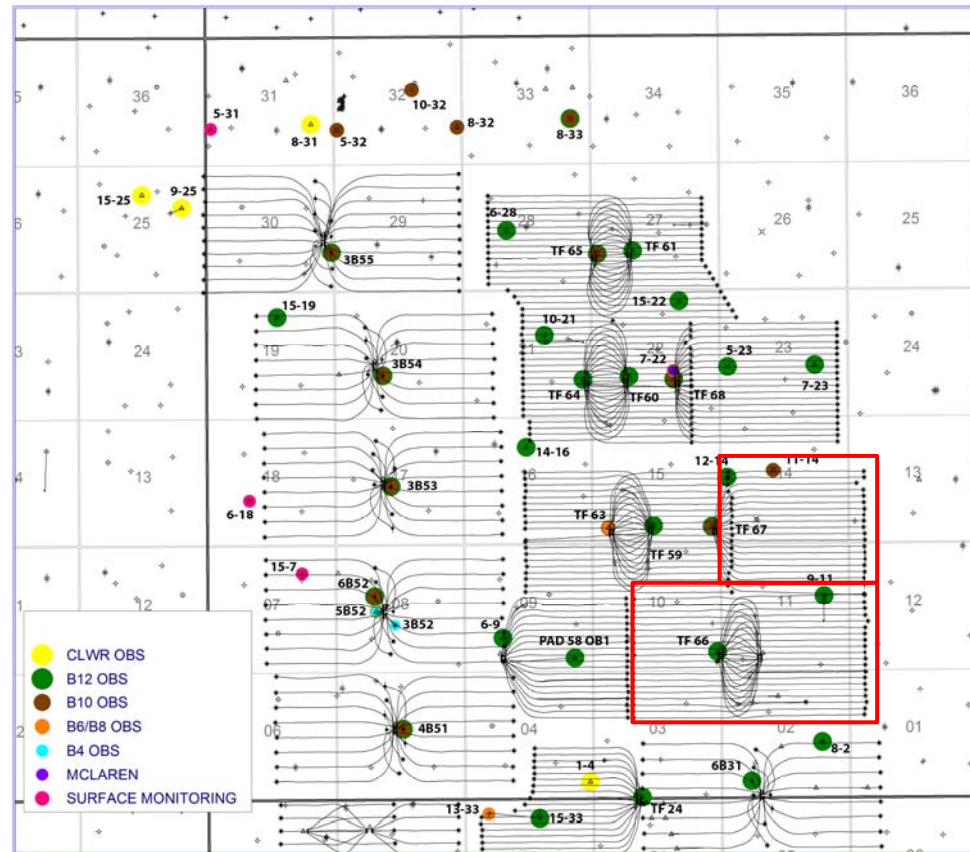


Primrose North B12

Pressure & Temperature Monitoring – 12-14 OBS

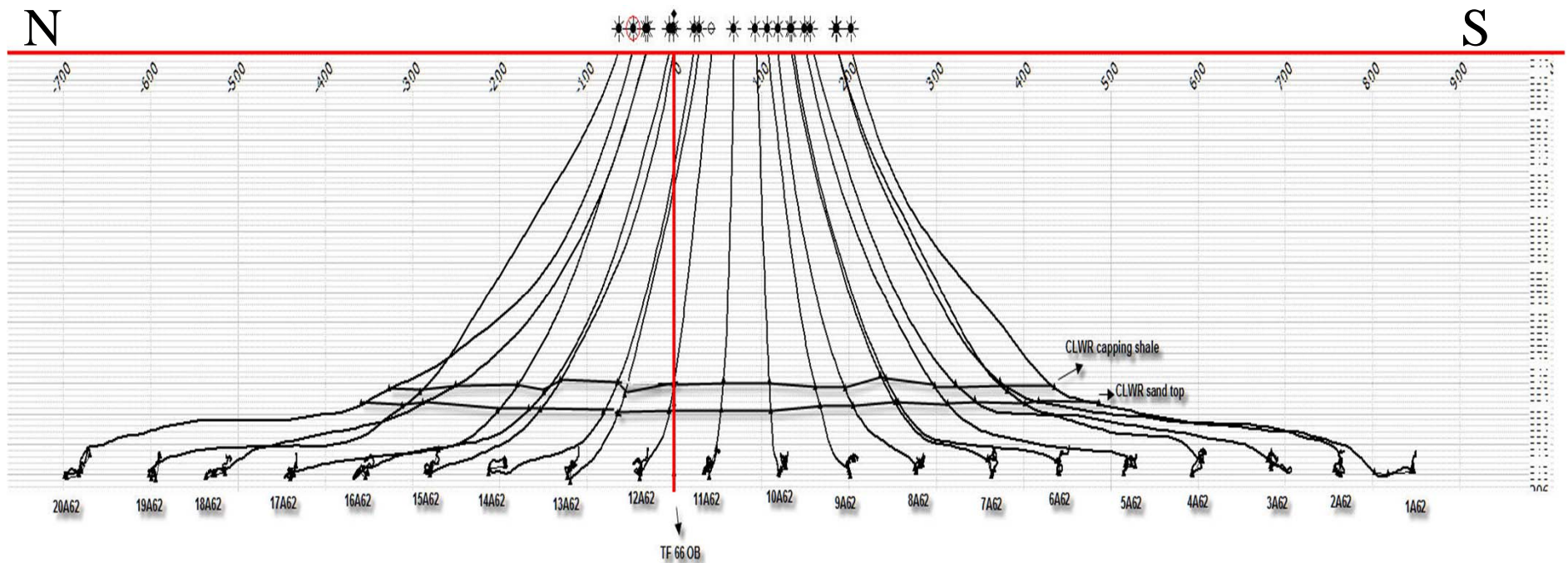


Observation Wells - Primrose North Phases 62,66 and 67



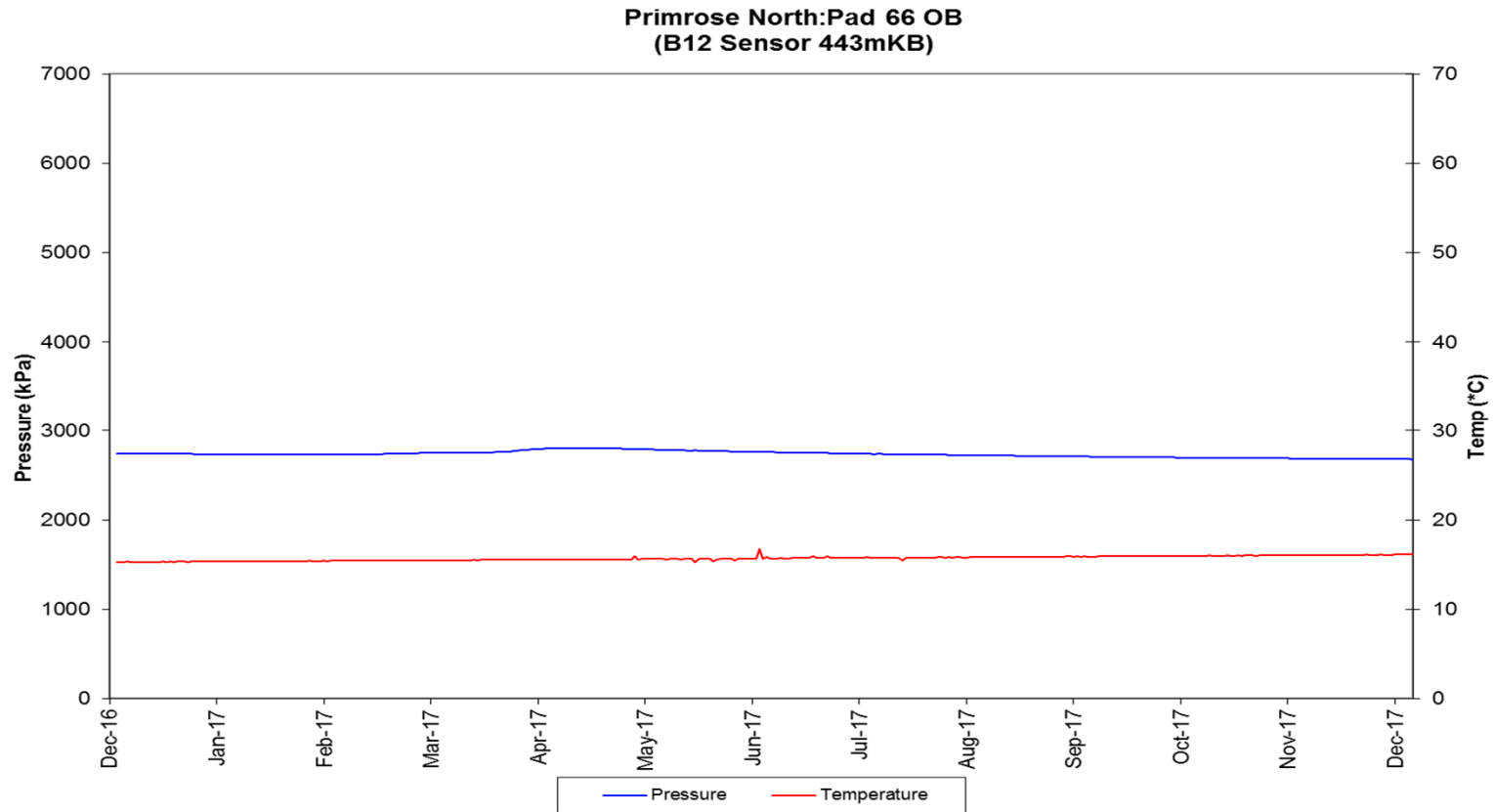
Primrose North B12

Pressure & Temperature Monitoring –TF 66



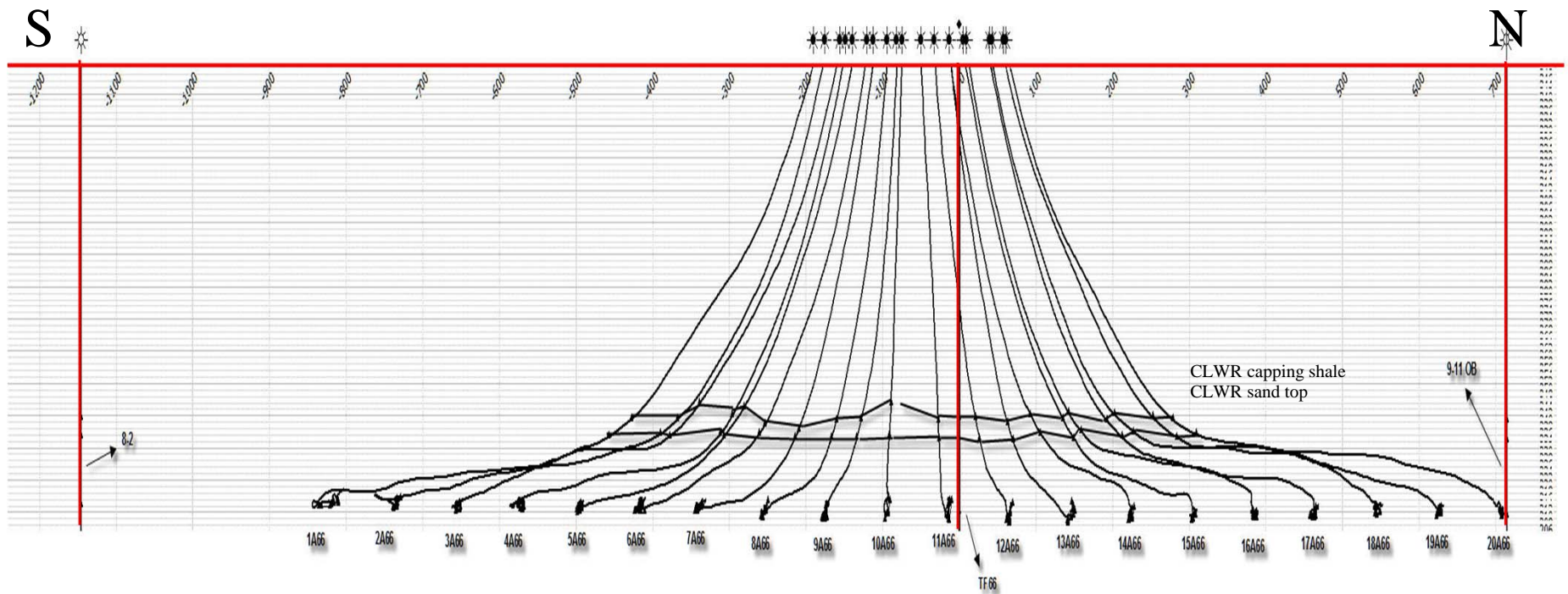
Primrose North B12

Pressure & Temperature Monitoring – TF 66 OBS



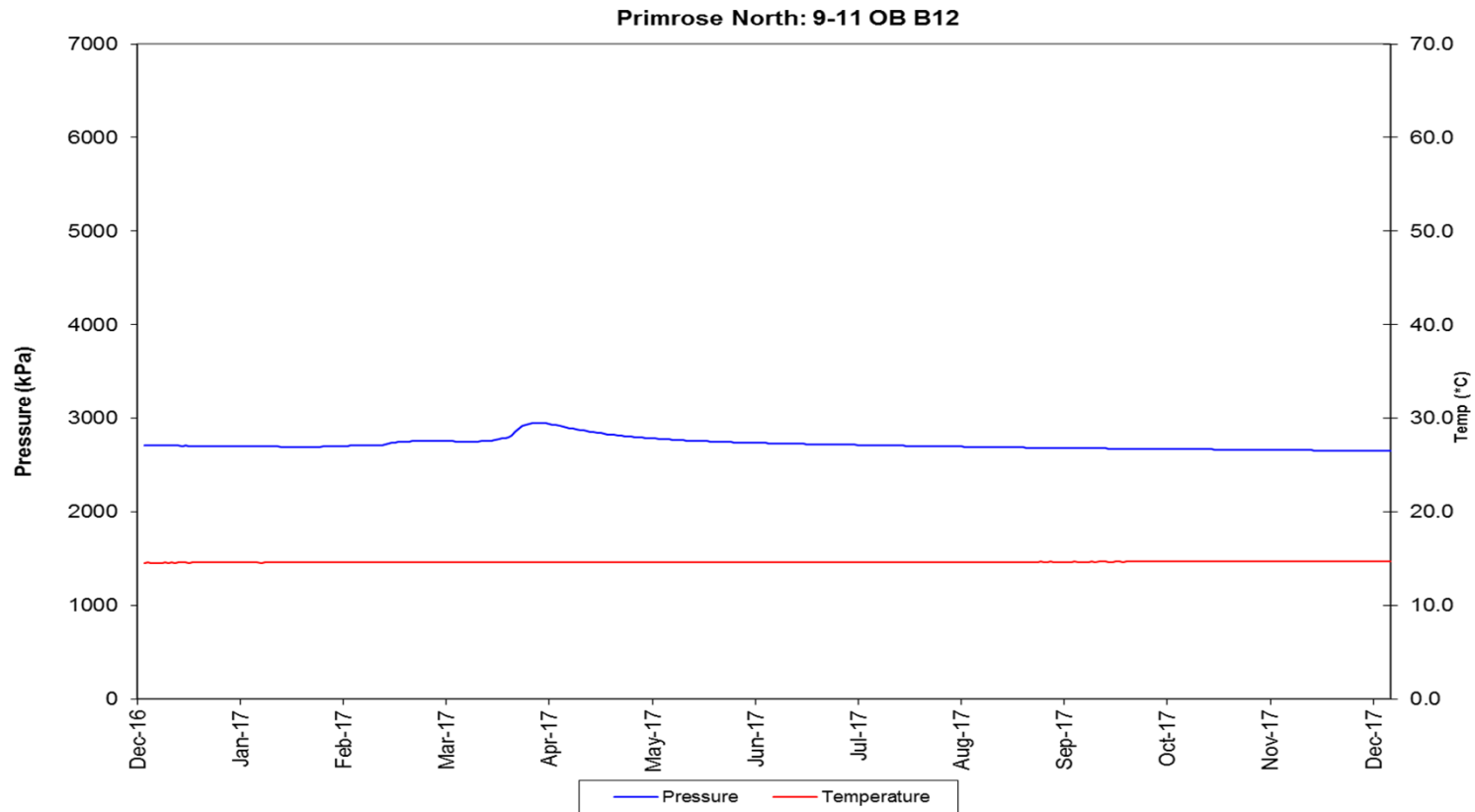
Primrose North B12

Pressure & Temperature Monitoring – 8-2,9-11,TF 66

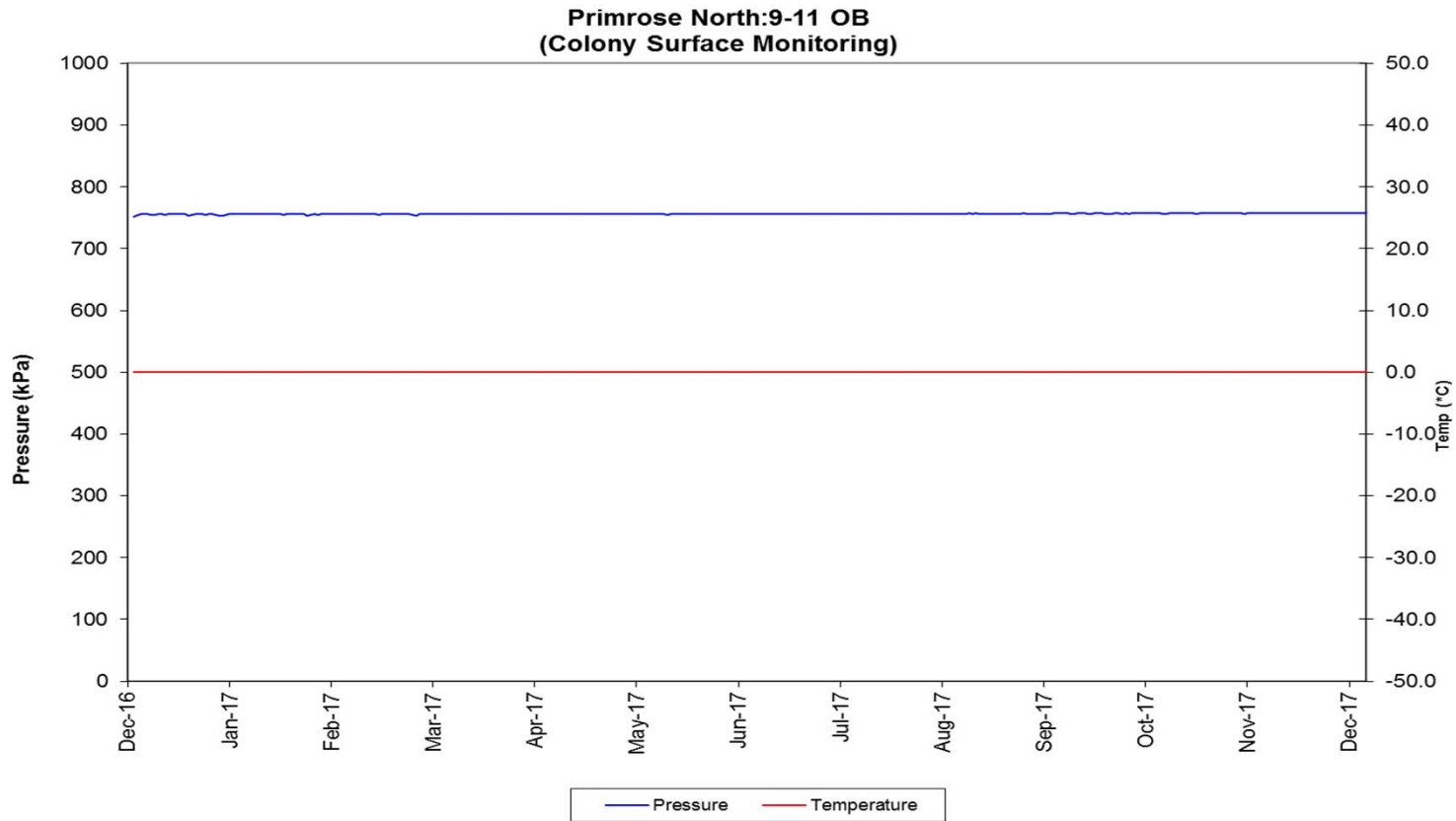


Primrose North B12

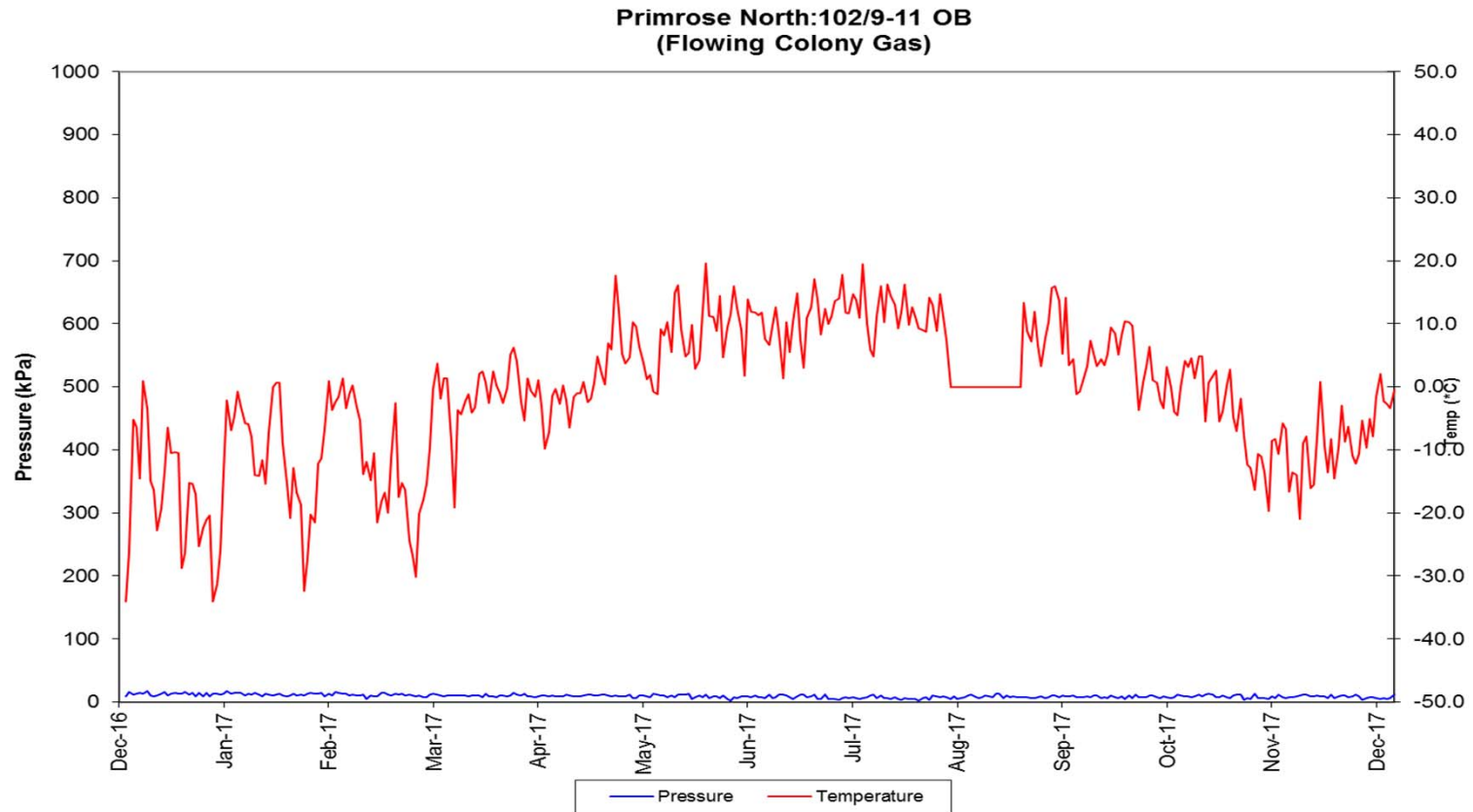
Pressure & Temperature Monitoring – 9-11 OBS



Primrose North Colony Pressure & Temperature Monitoring – 9-11 OBS

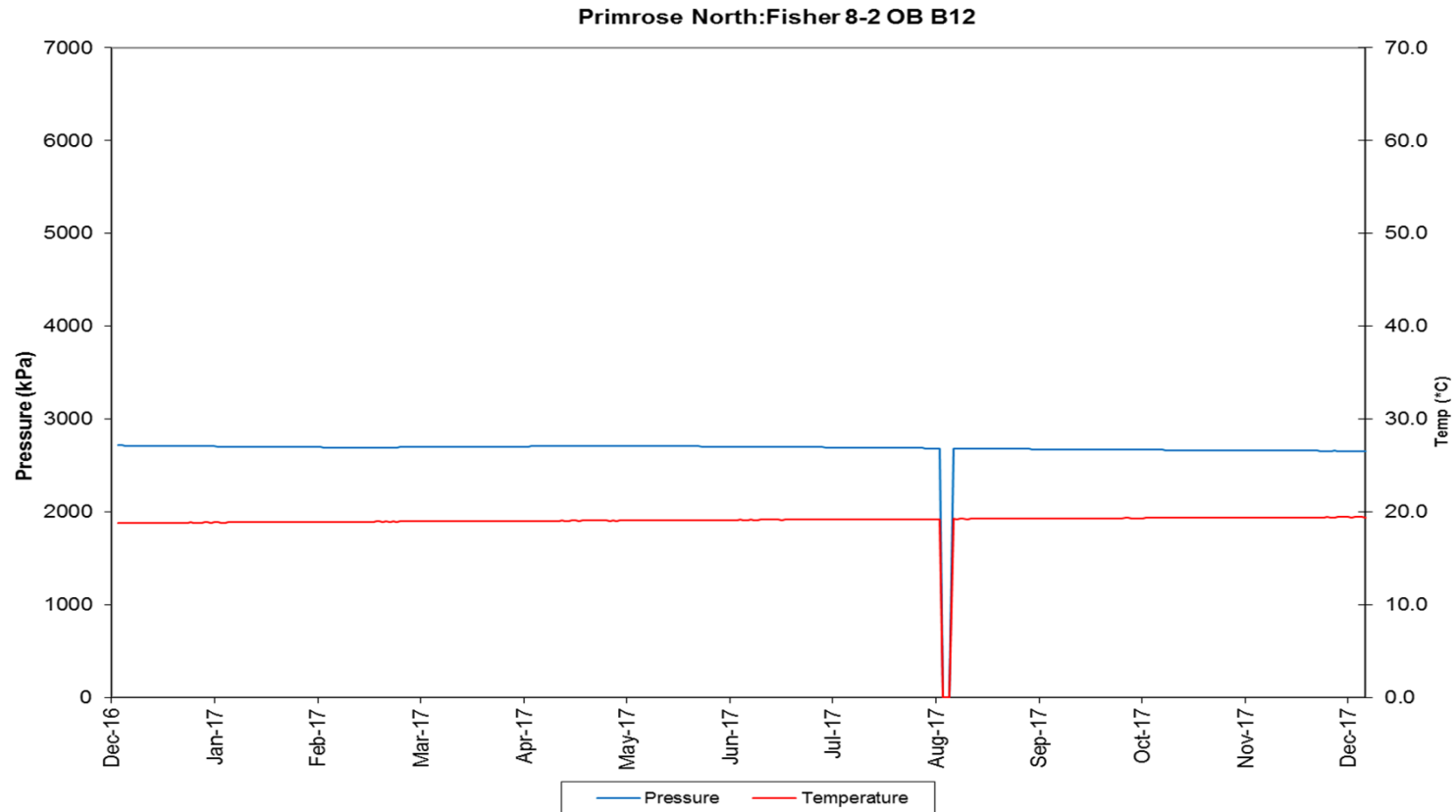


Primrose North Flowing Colony Gas Monitoring – 9-11 OBS



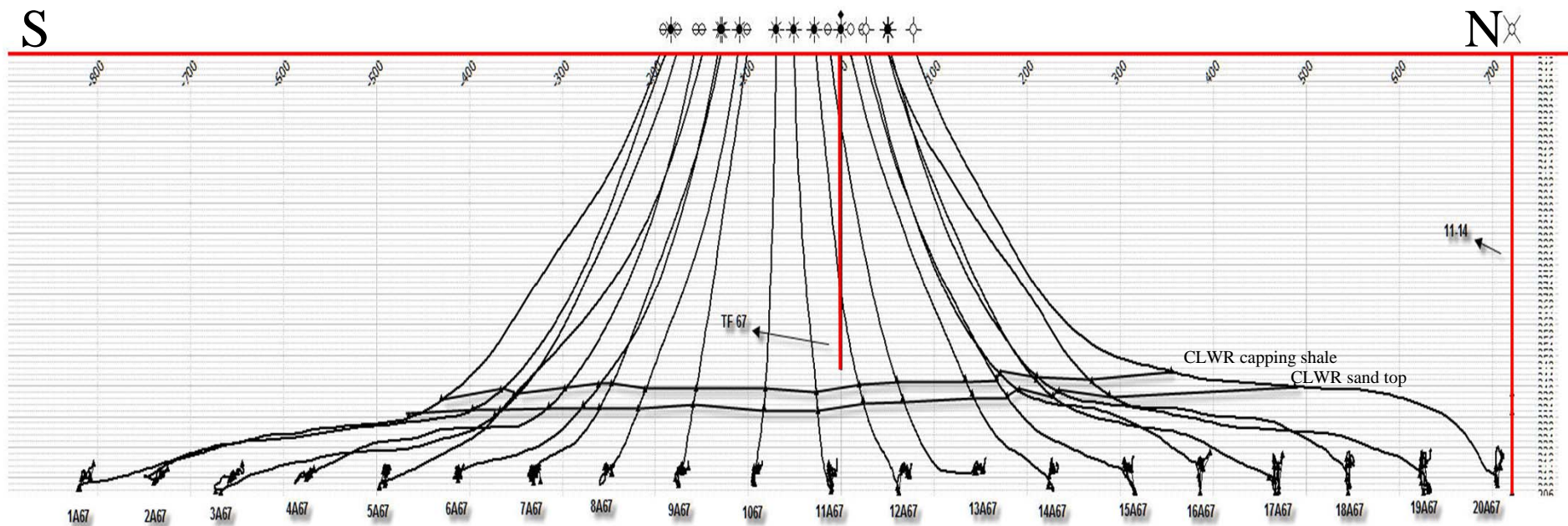
Primrose North B12

Pressure & Temperature Monitoring – Fisher 8-2



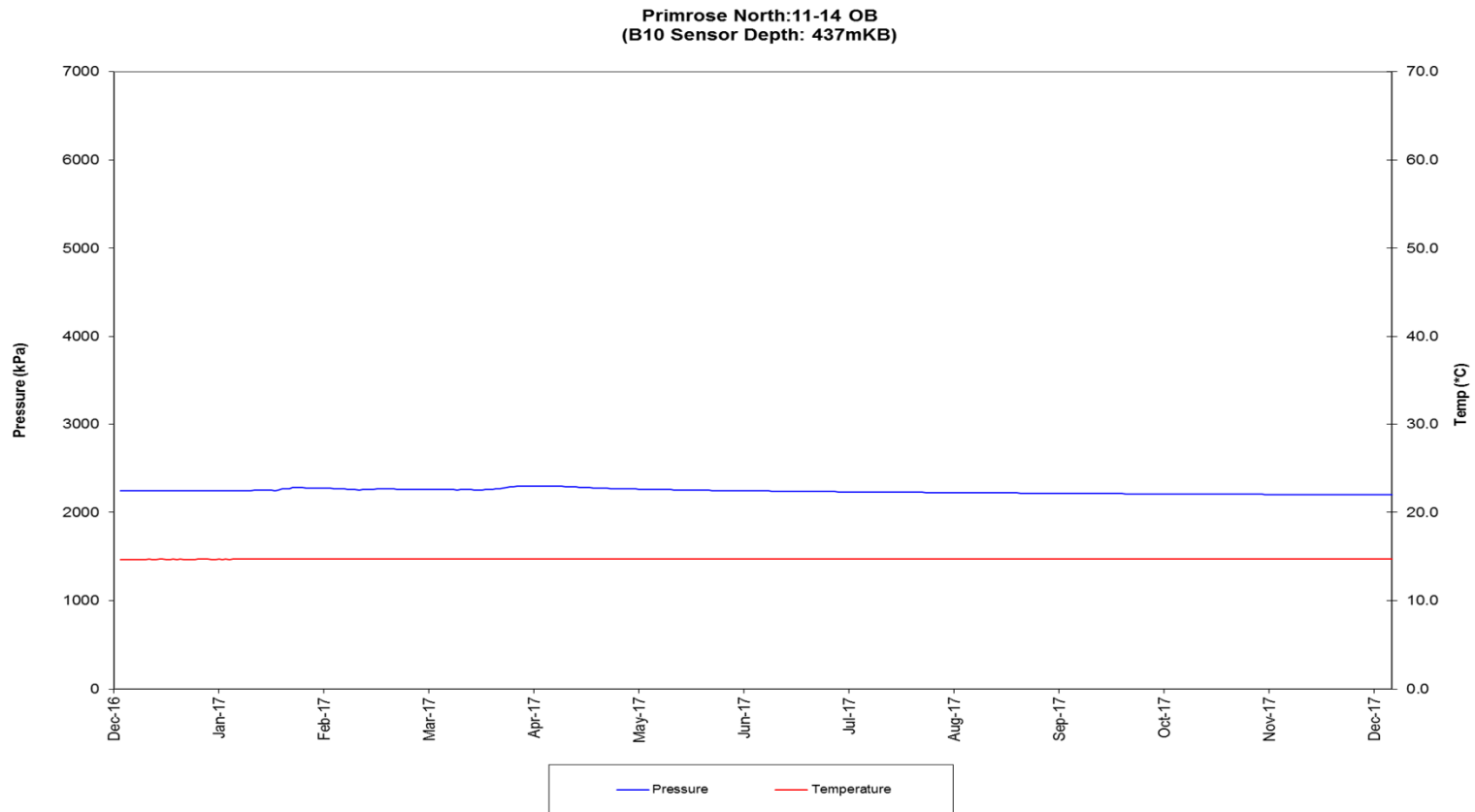
Primrose North B10/B12

Pressure & Temperature Monitoring – 11-14, TF 67



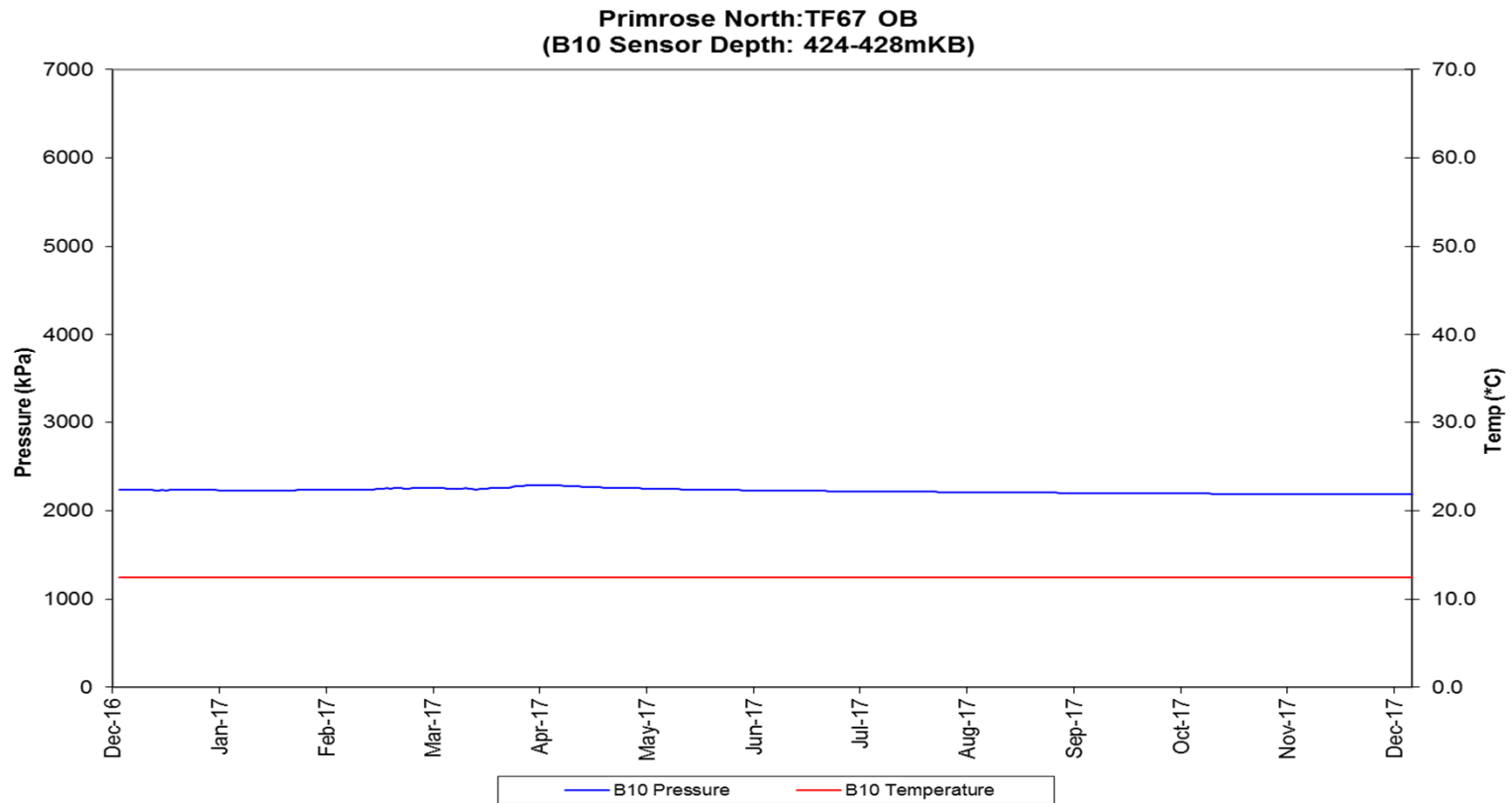
Primrose North B10/B12

Pressure & Temperature Monitoring – 11-14 OBS

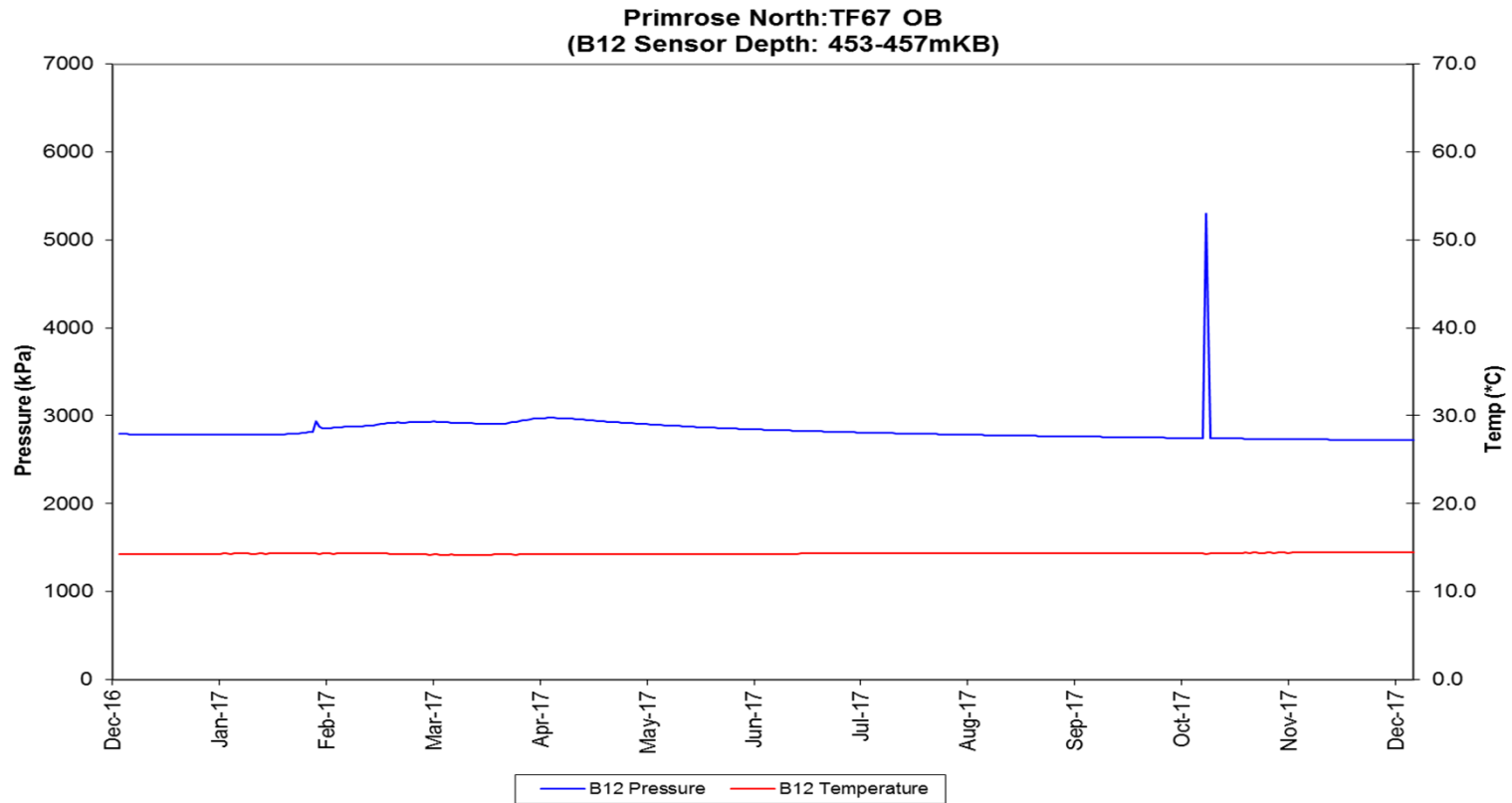


Primrose North B10/B12

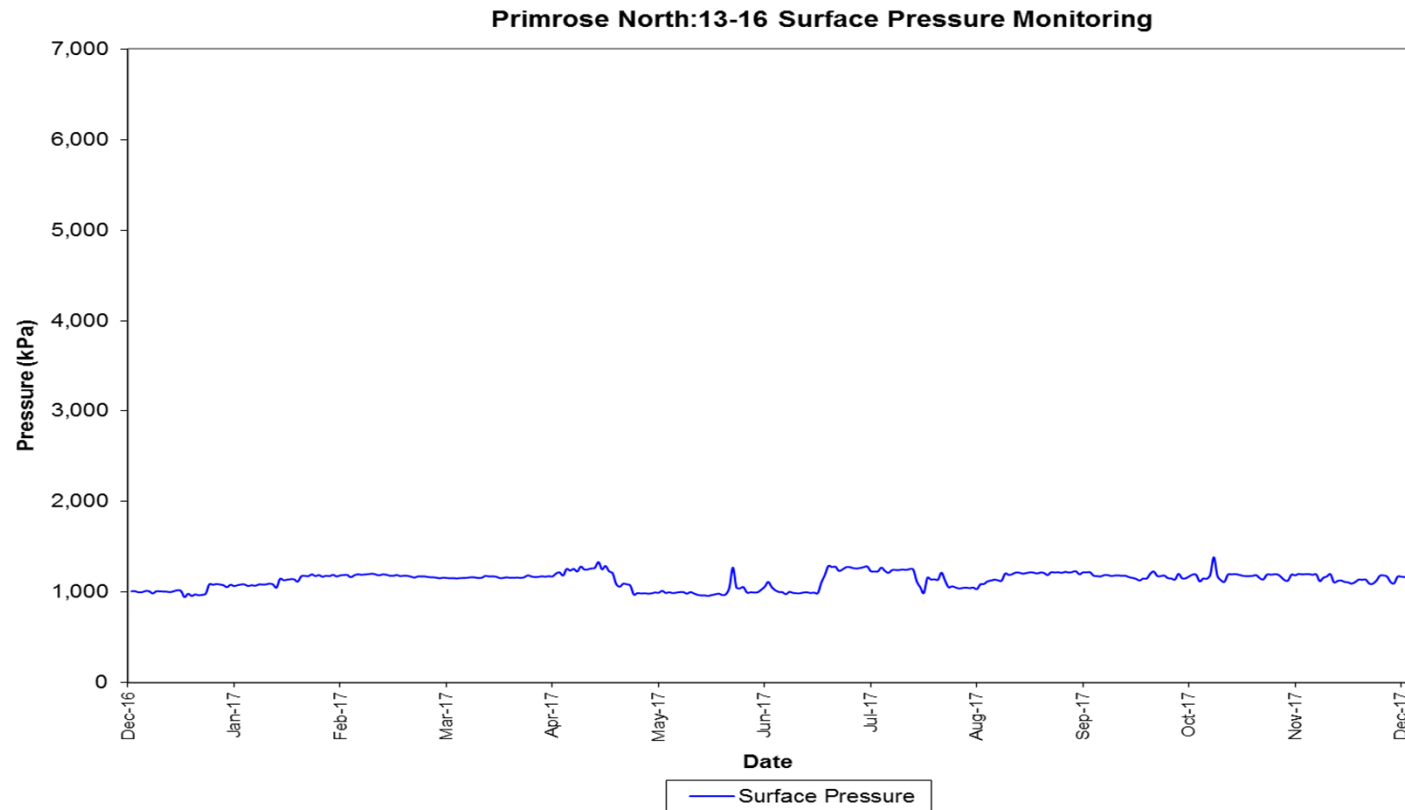
Pressure & Temperature Monitoring – TF 67 OBS



Primrose North Surface Pressure & Temperature Monitoring – TF 67 OBS

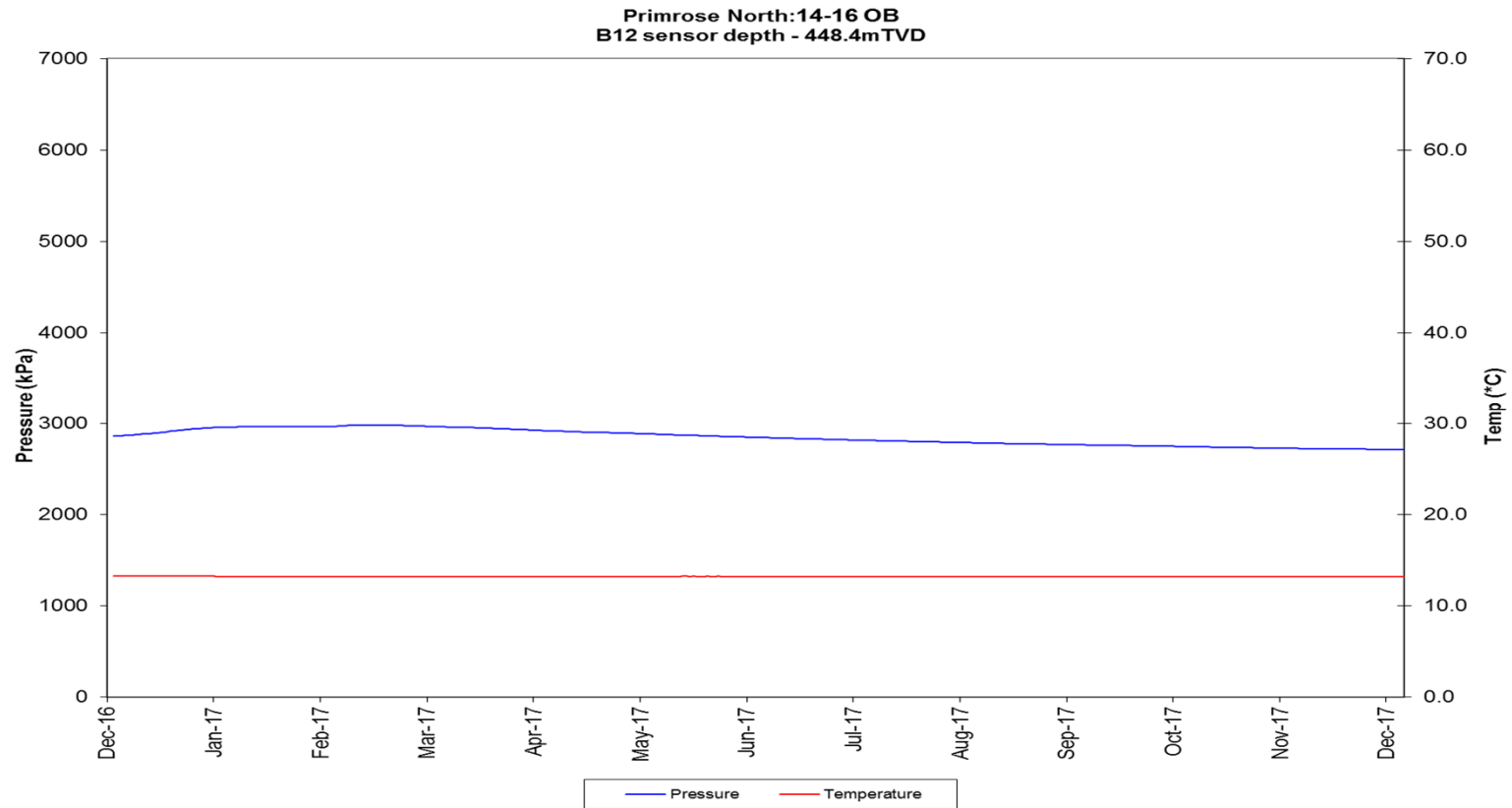


Primrose North Surface Pressure Monitoring – 13-16 OBS

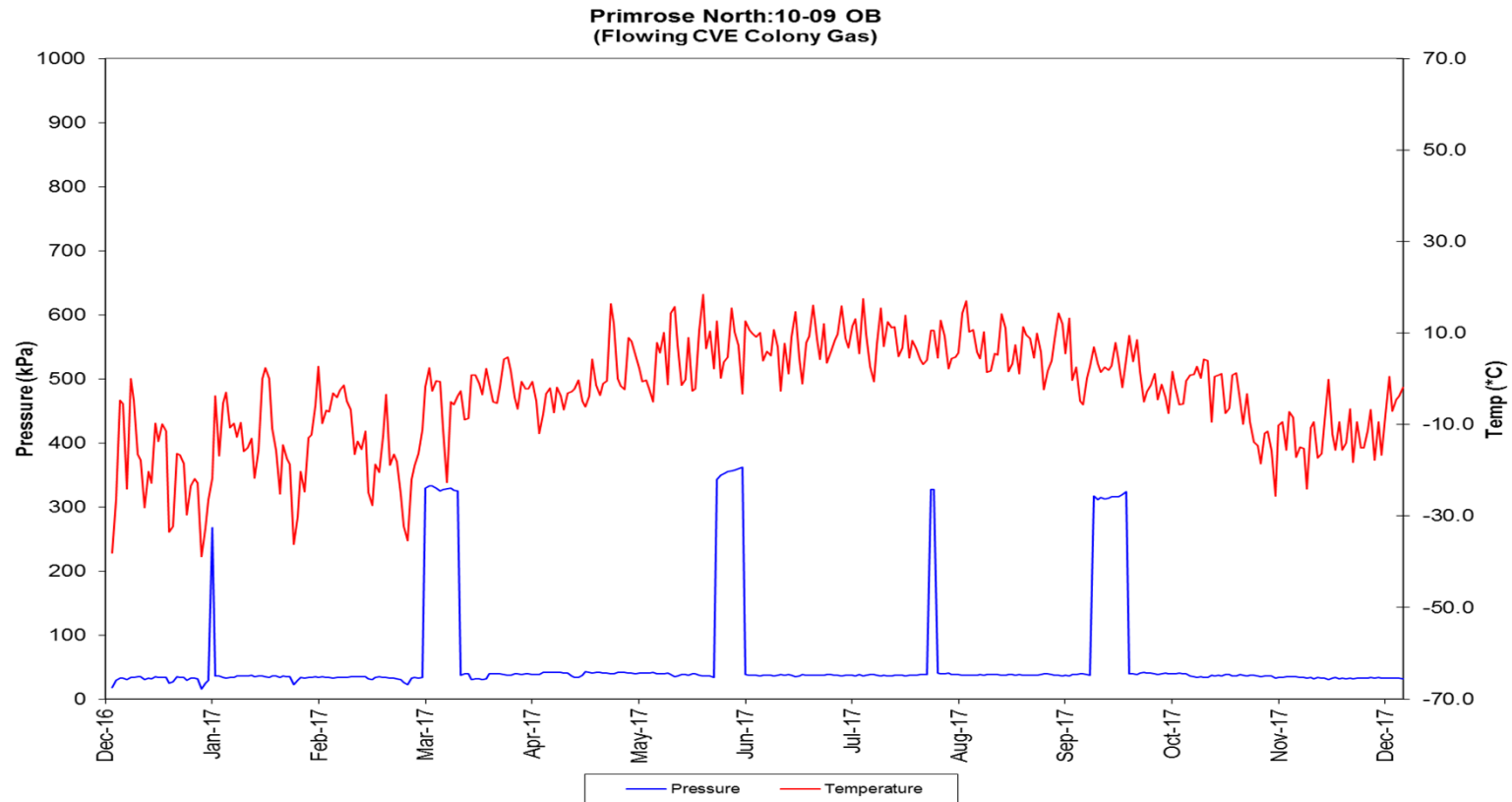


Primrose North B10/B12

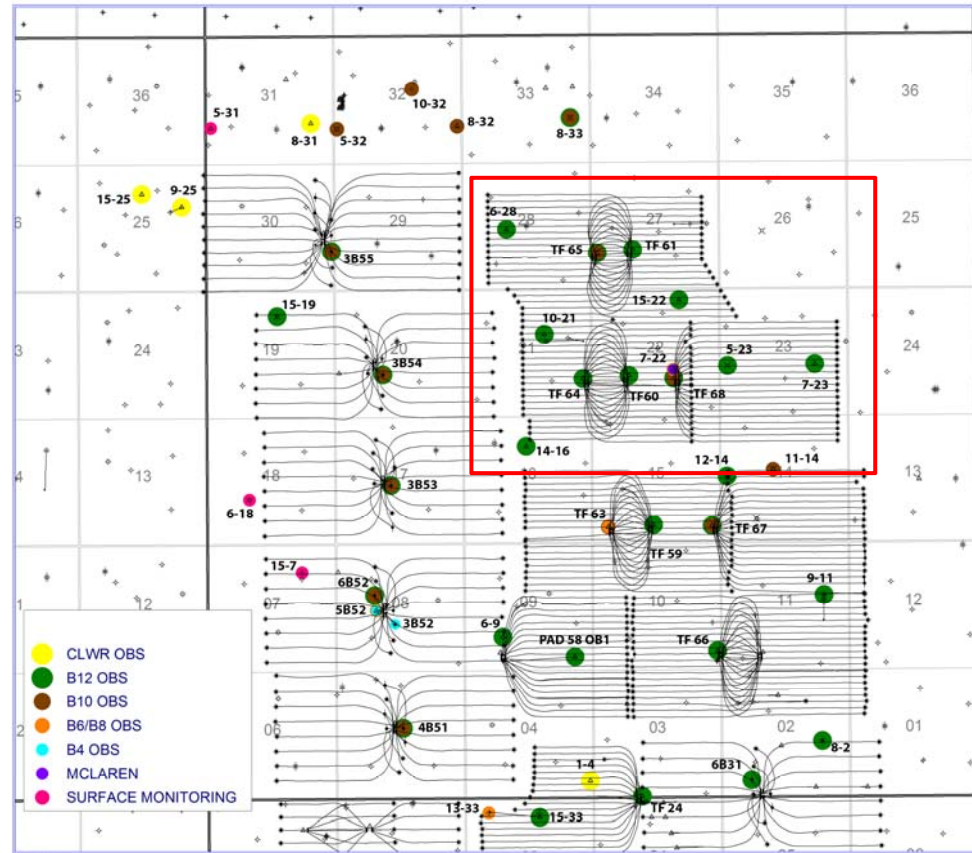
Pressure & Temperature Monitoring – 14-16 OBS



Primrose North Surface Pressure & Temperature Monitoring – TF 67 OBS

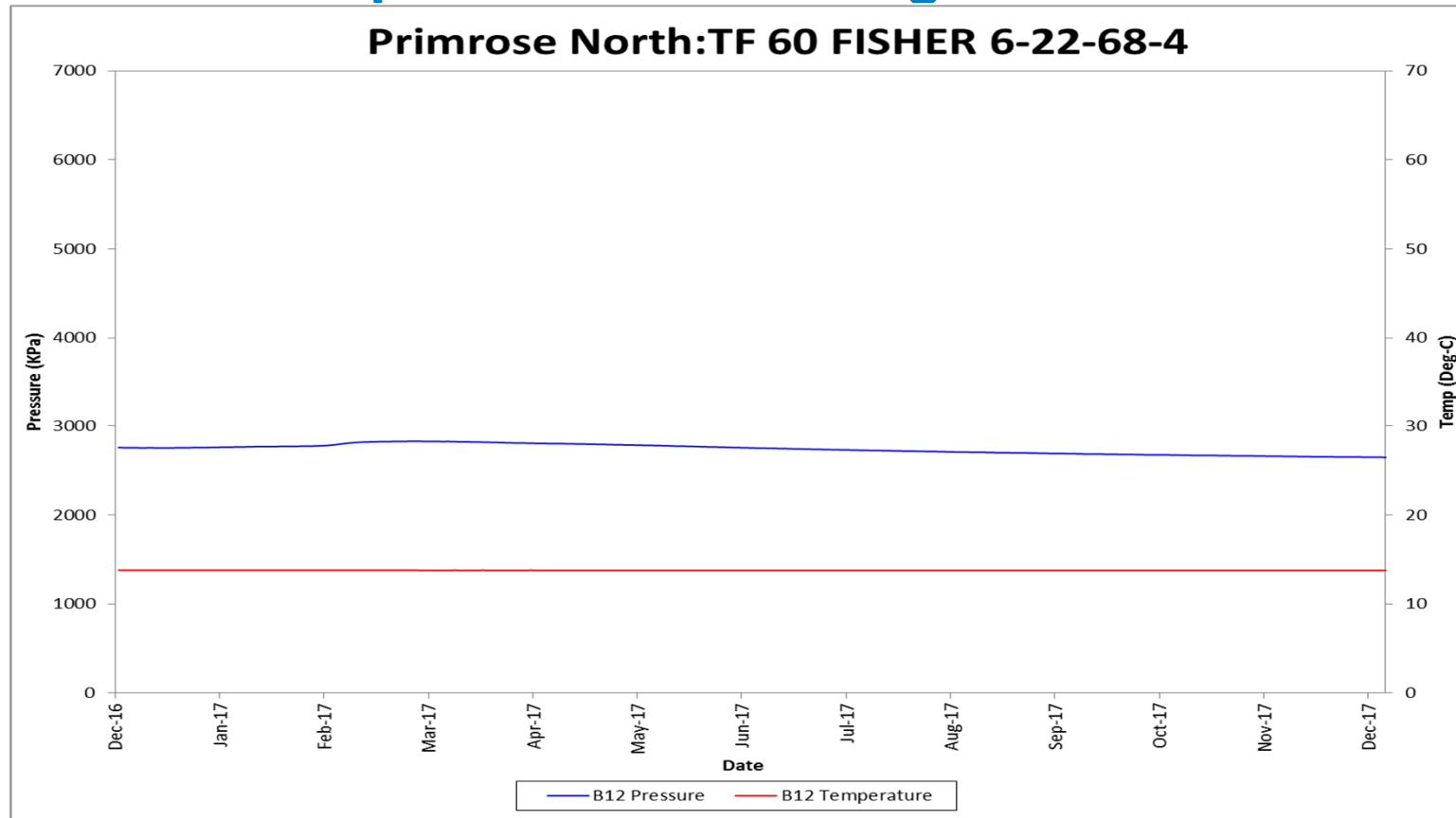


Phases 60, 61, 64, 65, & 68



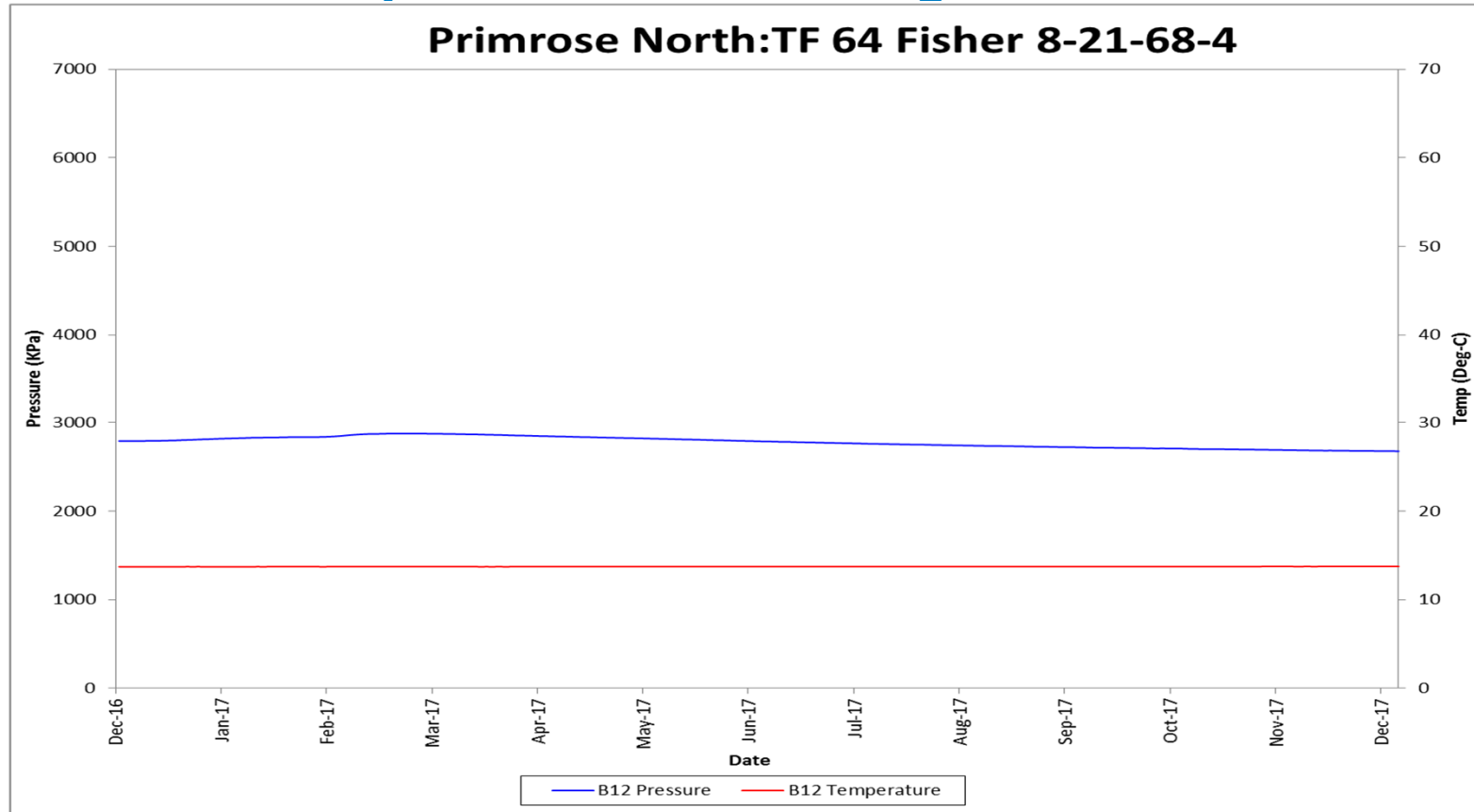
Primrose North B12

Pressure & Temperature Monitoring – TF 60 OBS



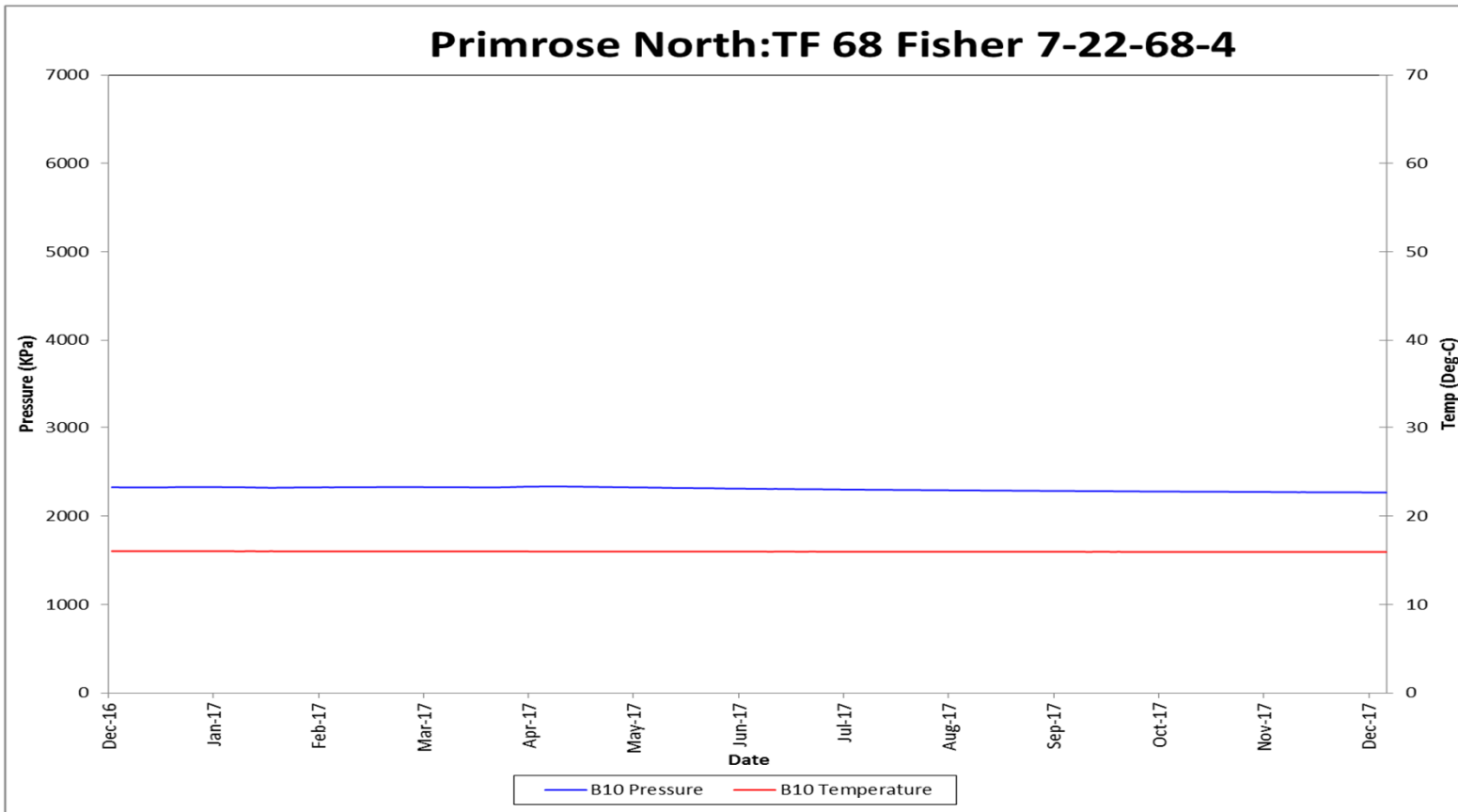
Primrose North B12

Pressure & Temperature Monitoring – TF 64 OBS



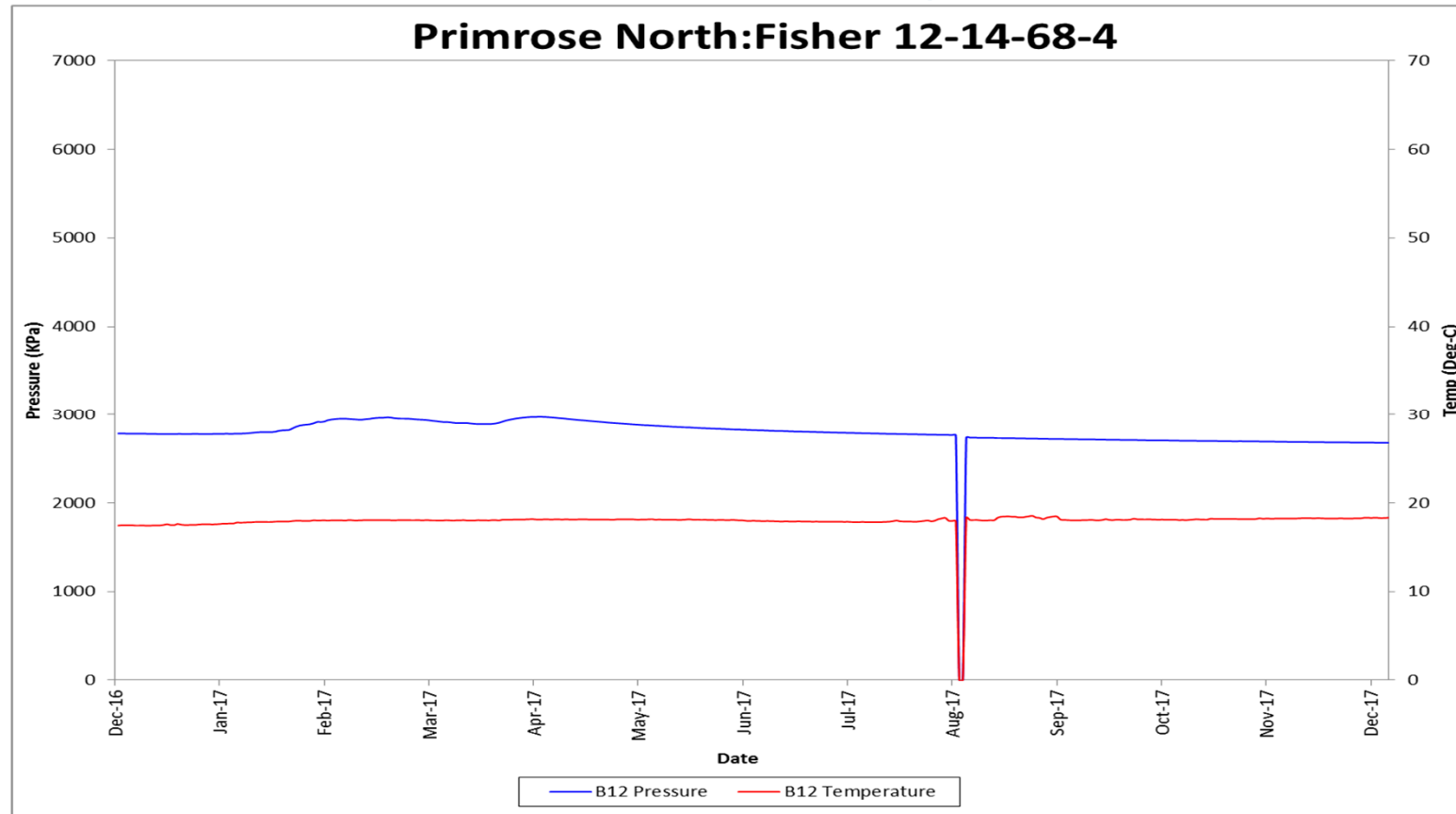
Primrose North B12

Pressure & Temperature Monitoring – TF 68 OBS



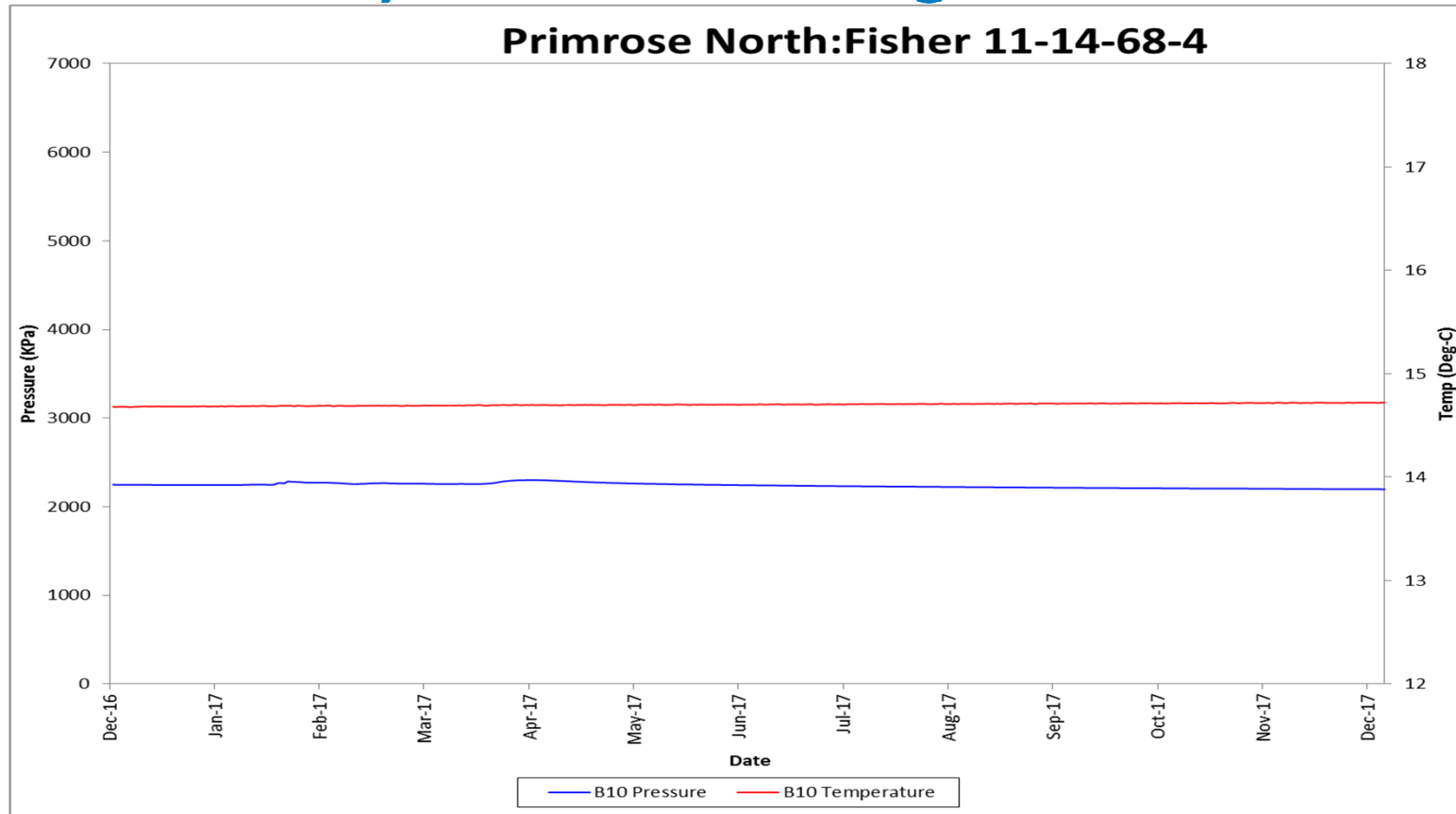
Primrose North B12

Pressure & Temperature Monitoring – 12-14



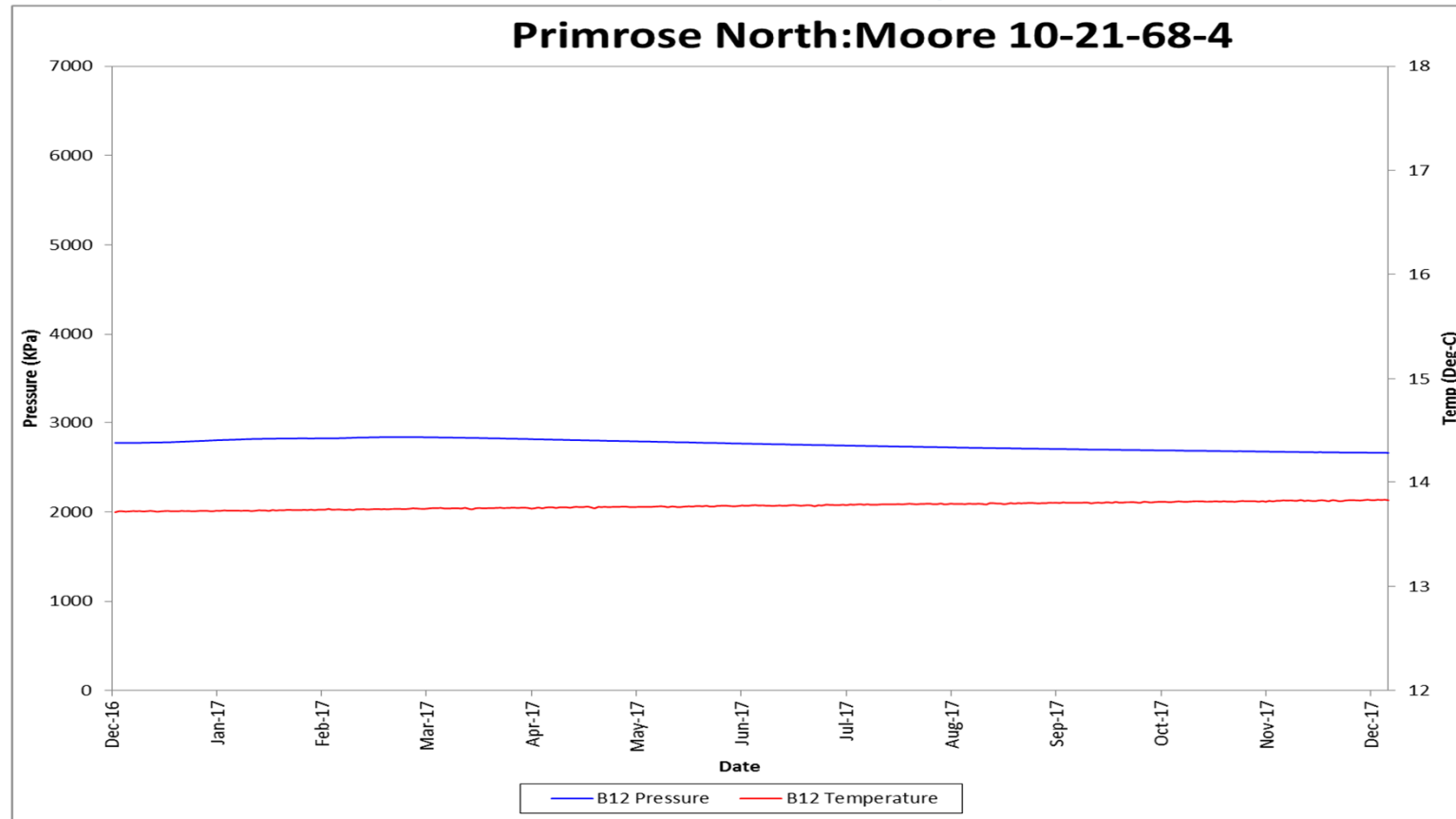
Primrose North B10

Pressure & Temperature Monitoring – 11-14



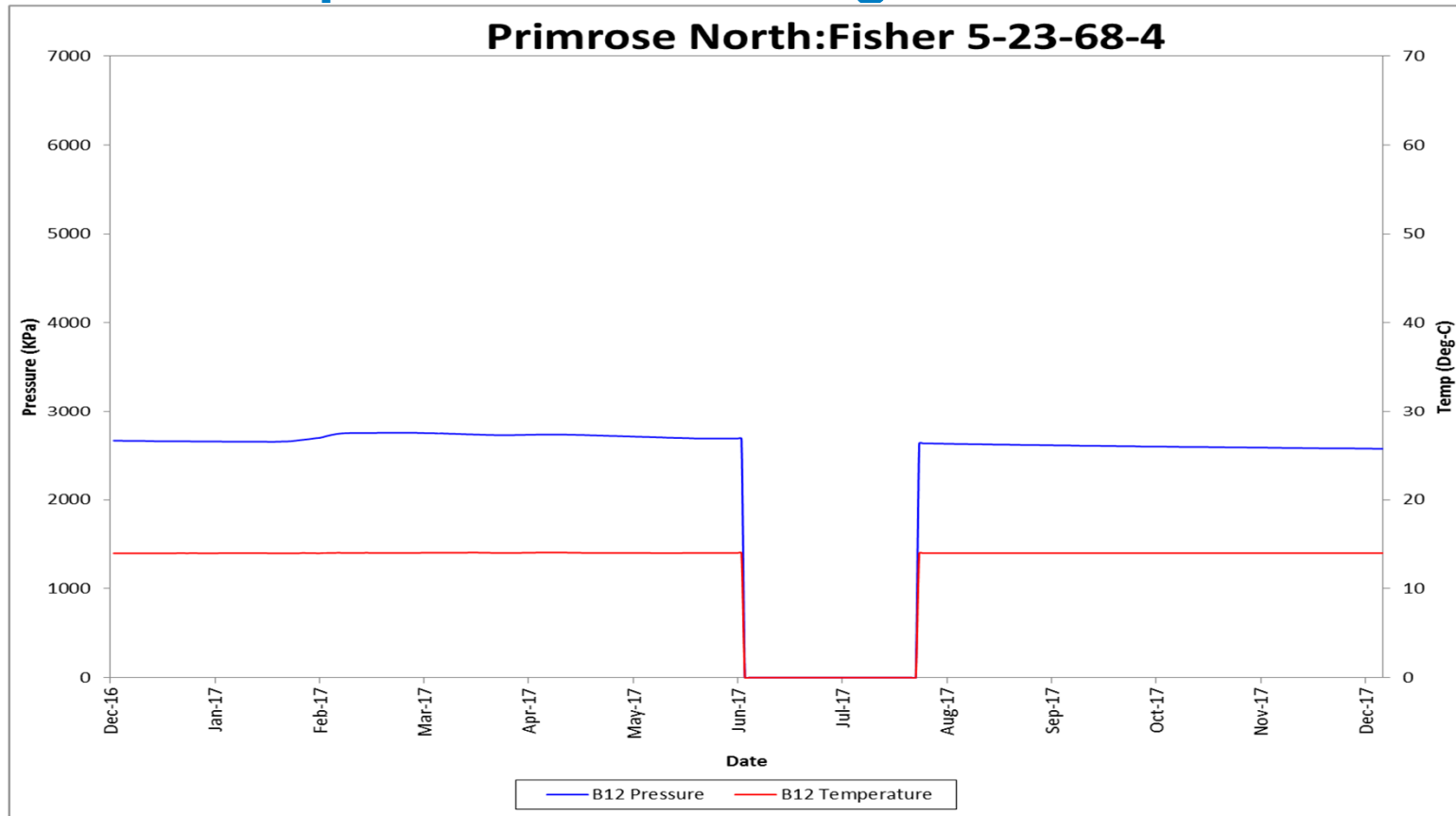
Primrose North B12

Pressure & Temperature Monitoring – 10-21



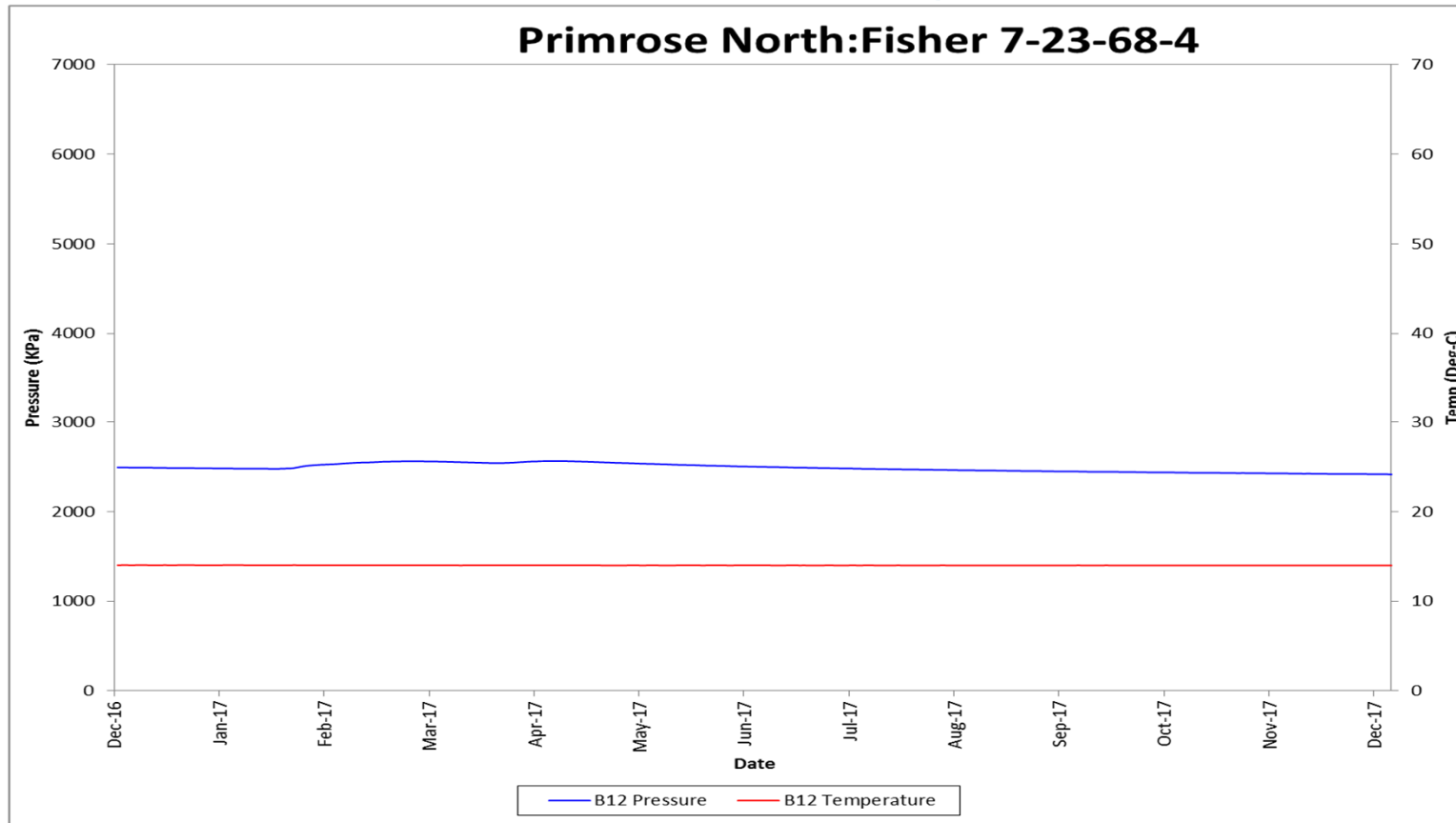
Primrose North B12

Pressure & Temperature Monitoring – 5-23



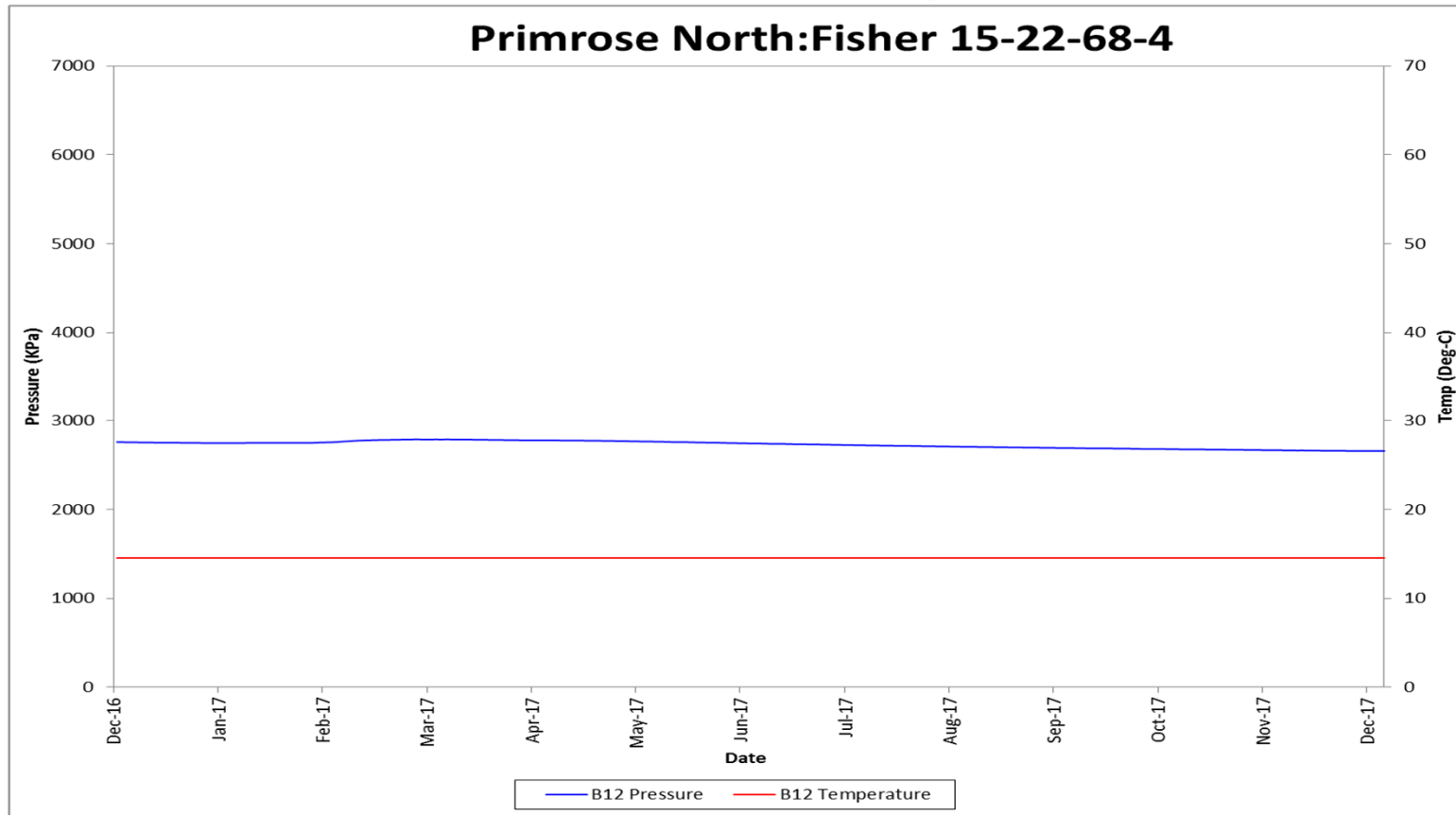
Primrose North B12

Pressure & Temperature Monitoring – 7-23

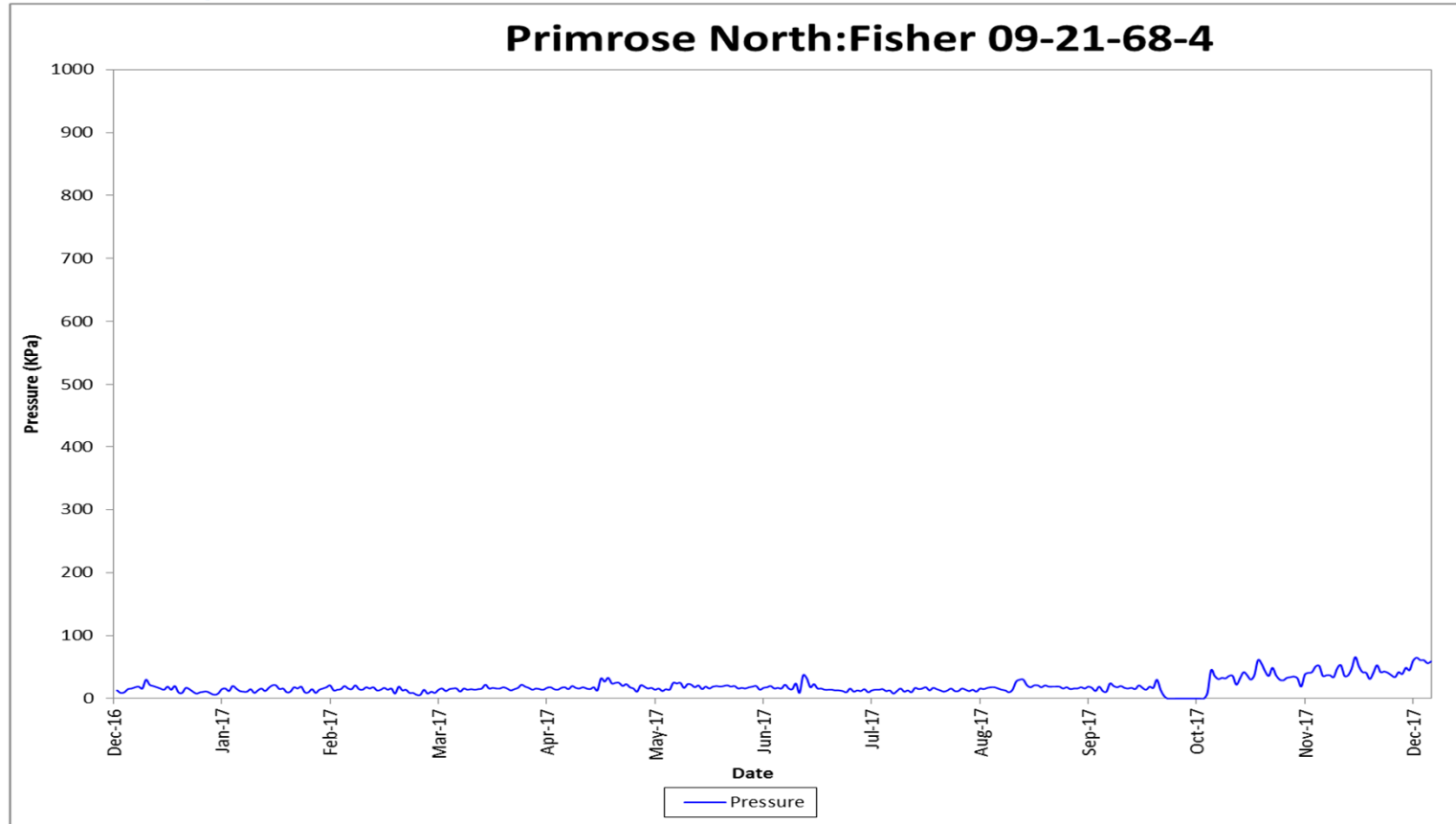


Primrose North B12

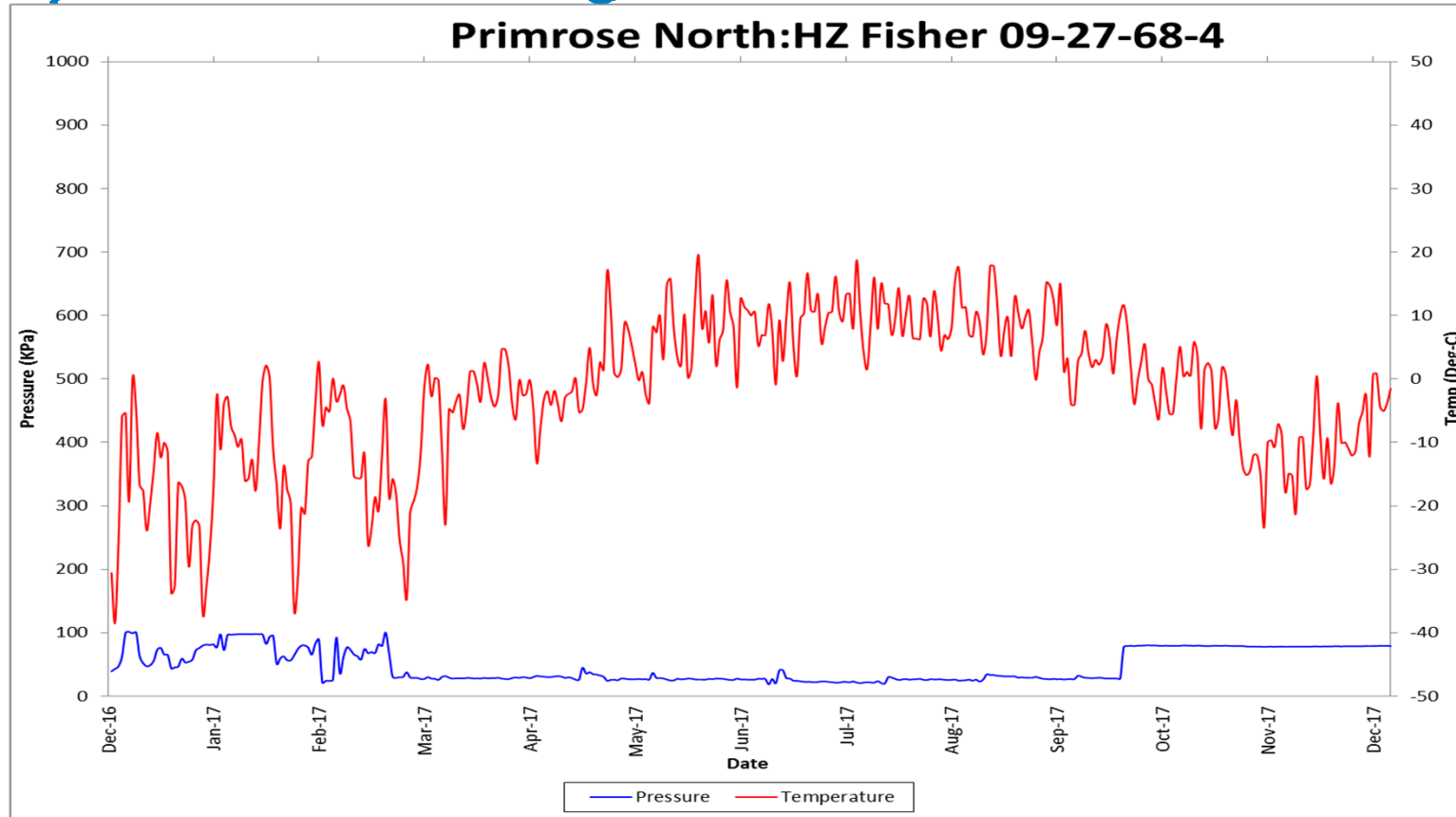
Pressure & Temperature Monitoring – 15-22



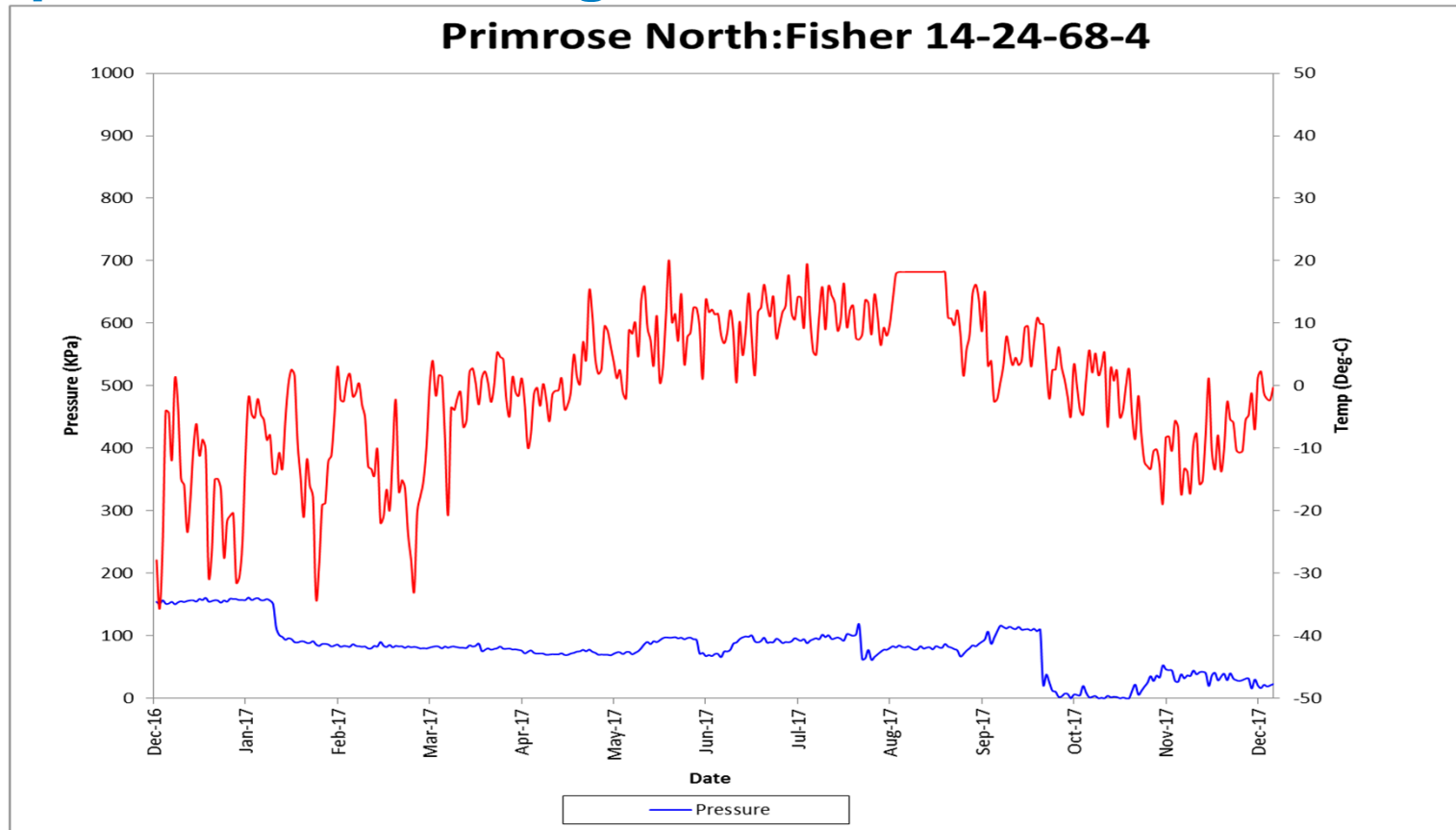
Primrose North – Colony Gas Surface Pressure Monitoring – 9-21



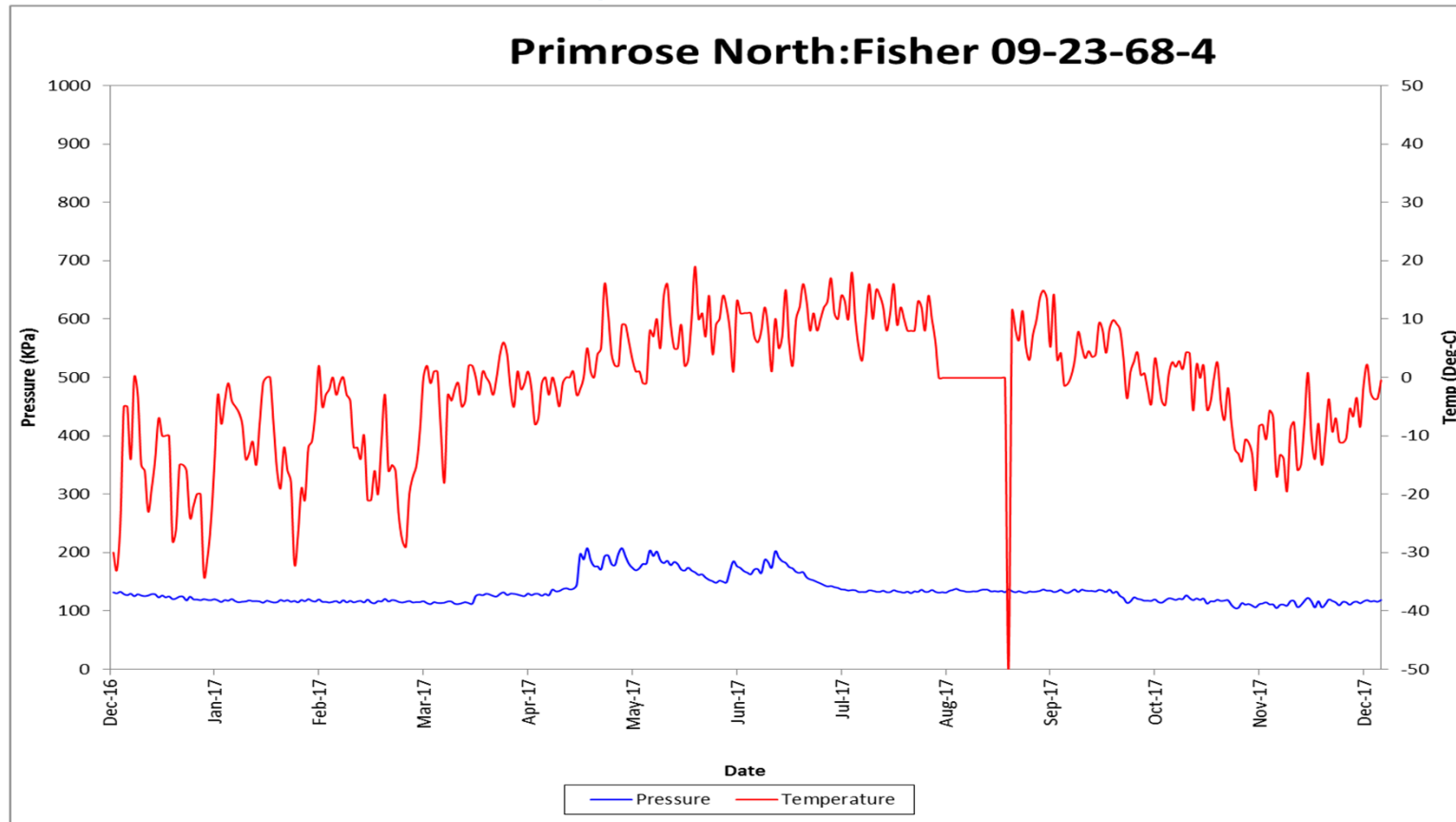
Primrose North – Colony Gas Surface Pressure and Temperature Monitoring – 9-27



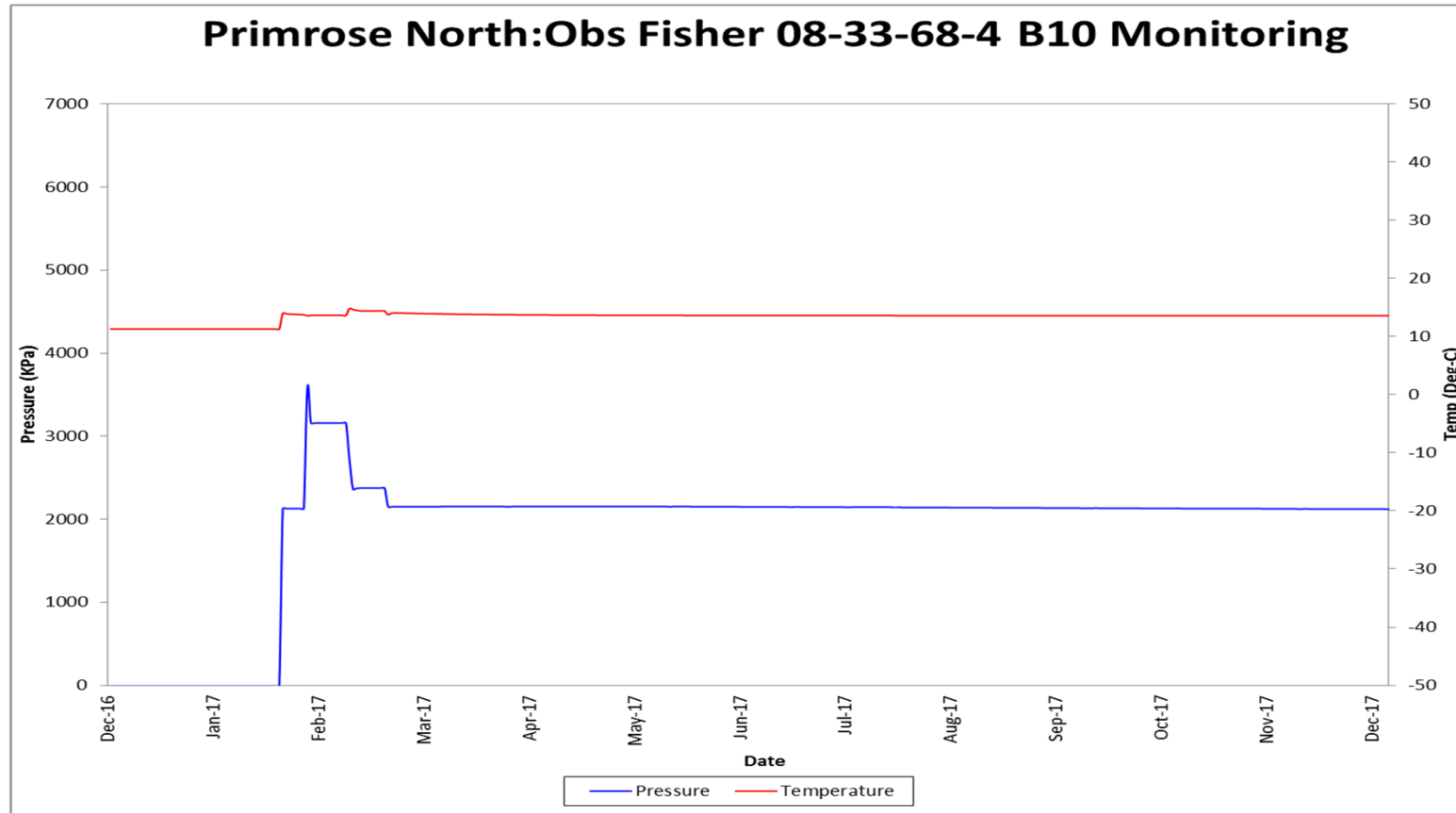
Primrose North – Colony Gas Surface Pressure and Temperature Monitoring – 14-24



Primrose North – Colony Gas Surface Pressure and Temperature Monitoring – 9-23

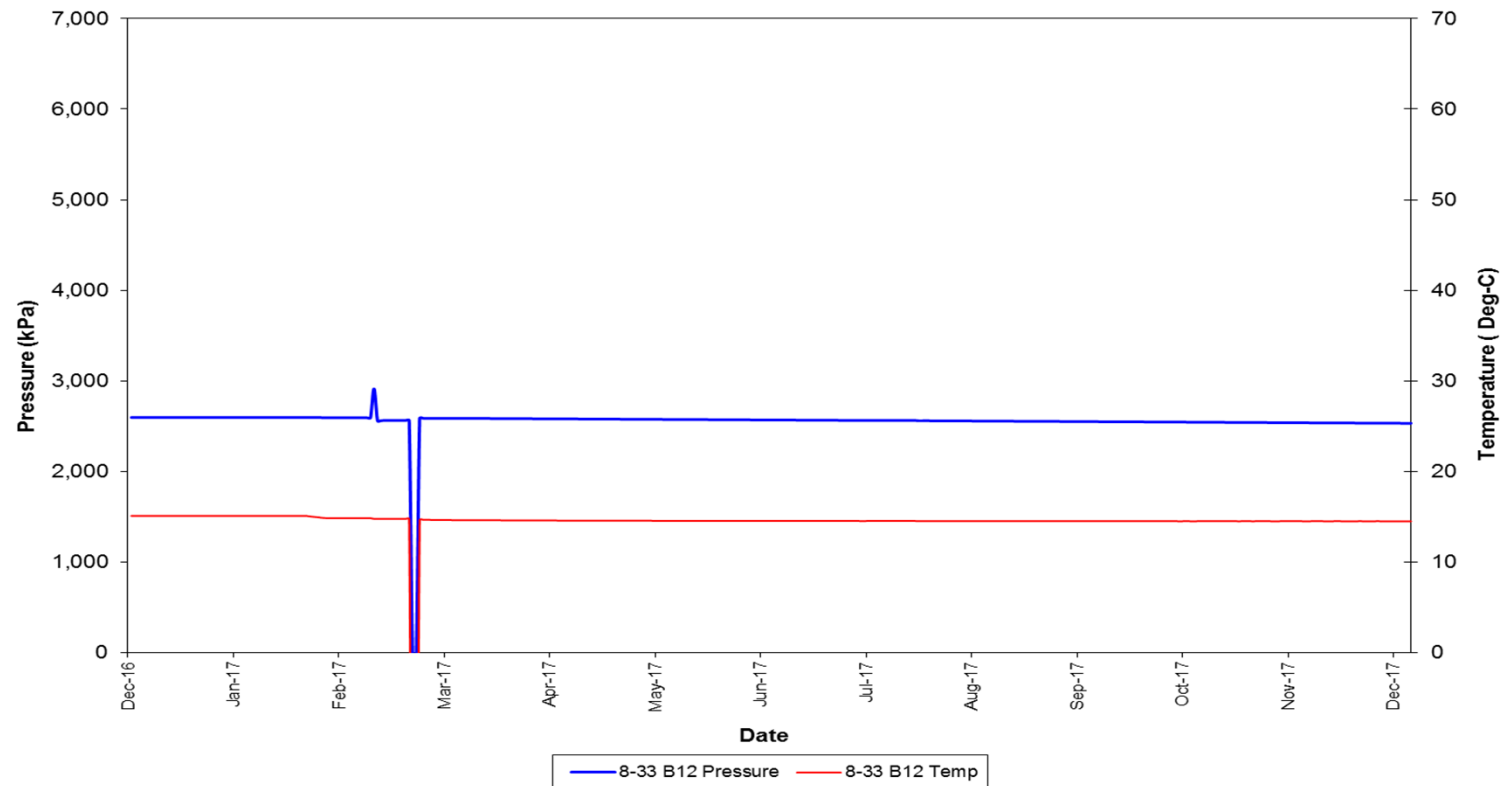


Primrose North B10/B12 Pressure and Temperature Monitoring – 8-33

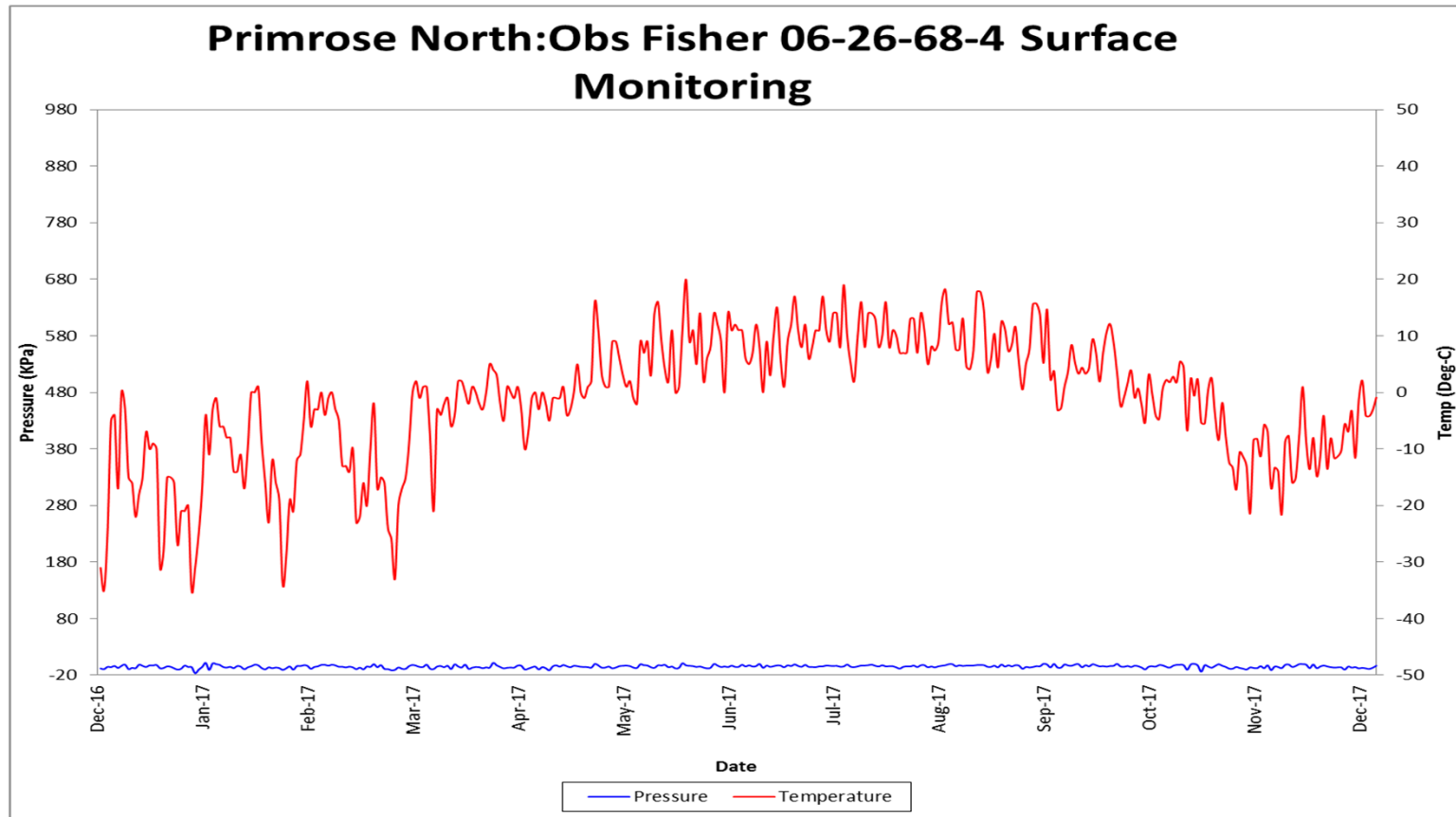


Primrose North B10/B12 Pressure and Temperature Monitoring – 8-33

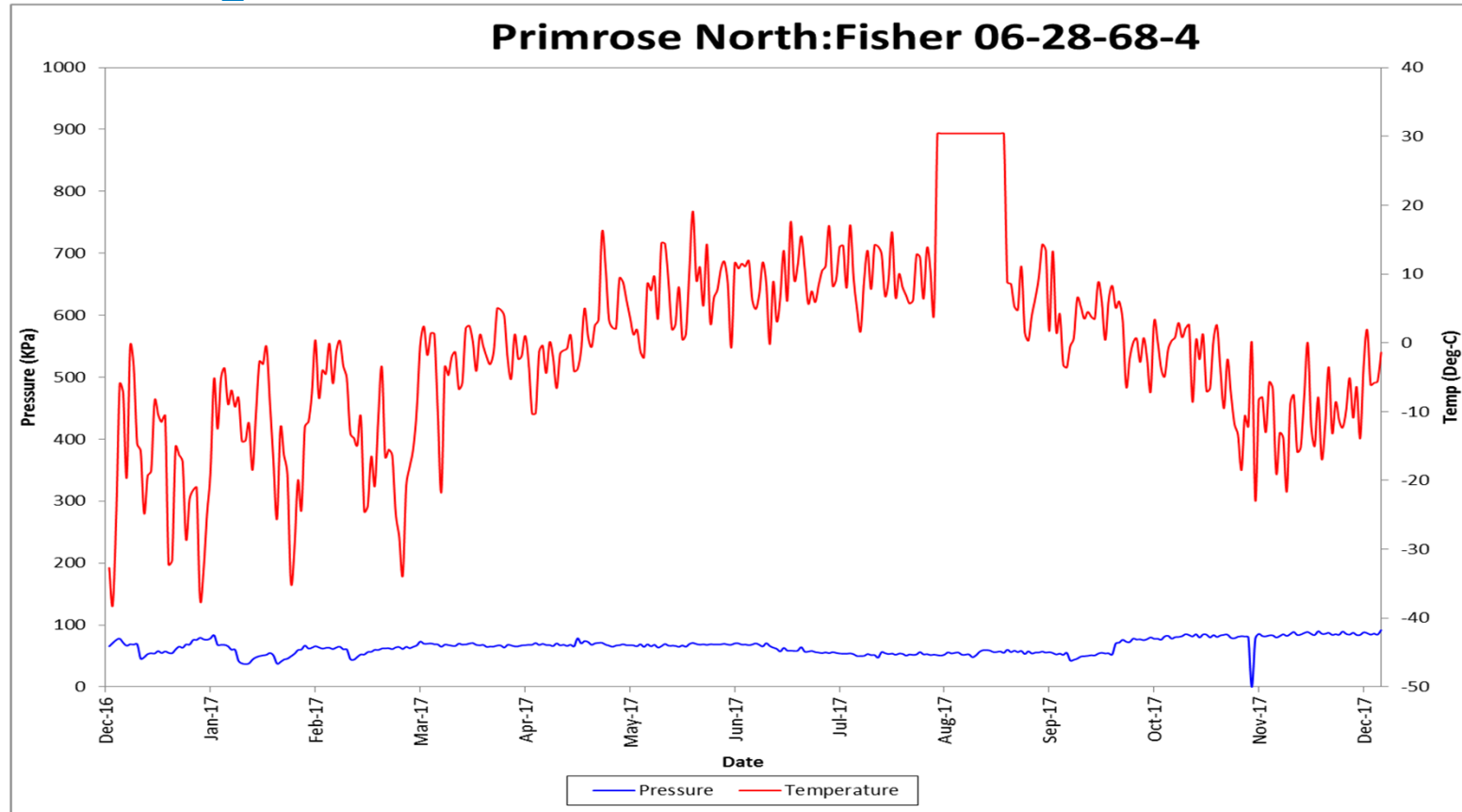
Primrose North:Obs Fisher 08-33-68-4 B12 Monitoring



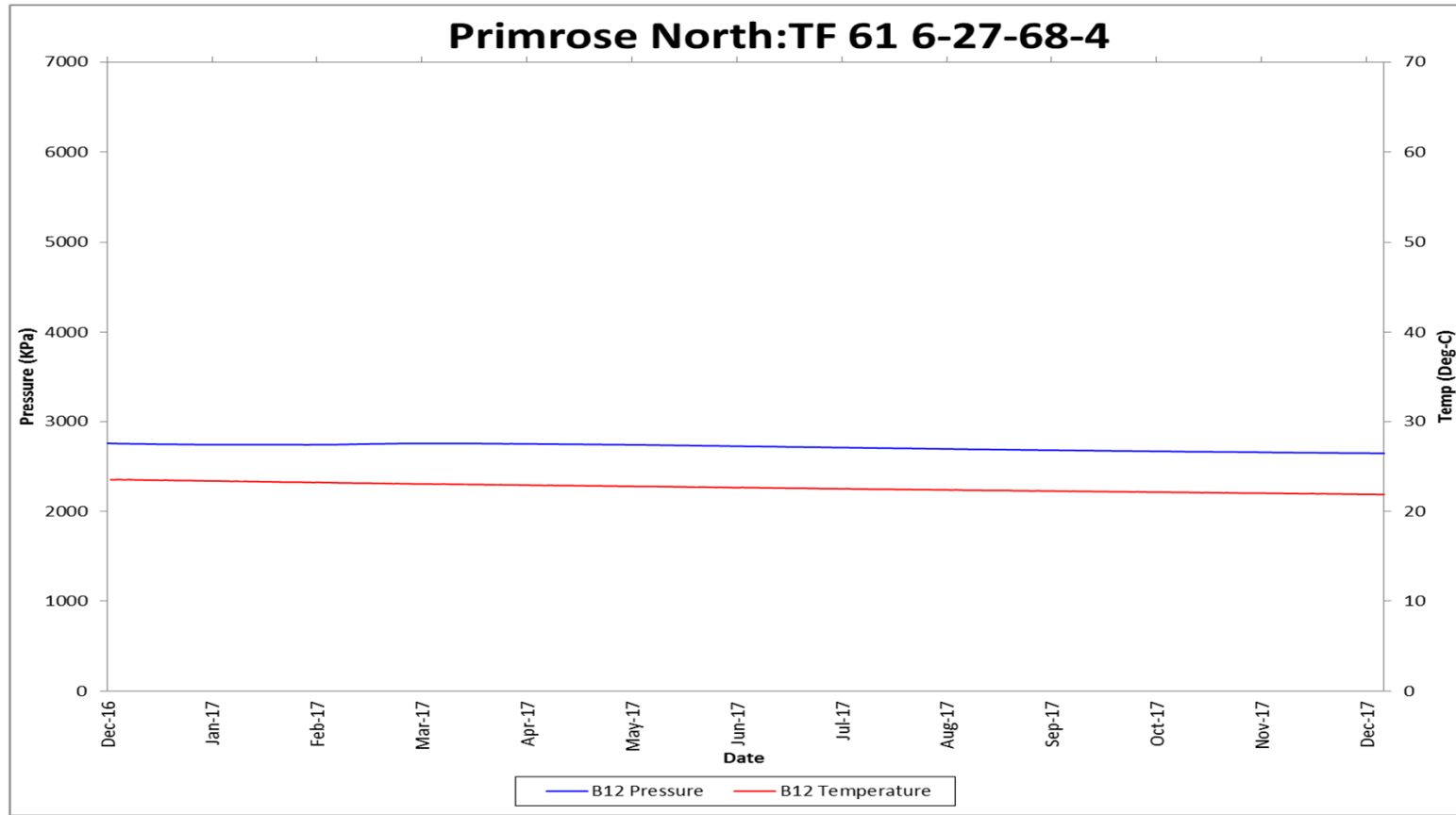
Primrose North Surface Pressure and Temperature Monitoring – 6-26



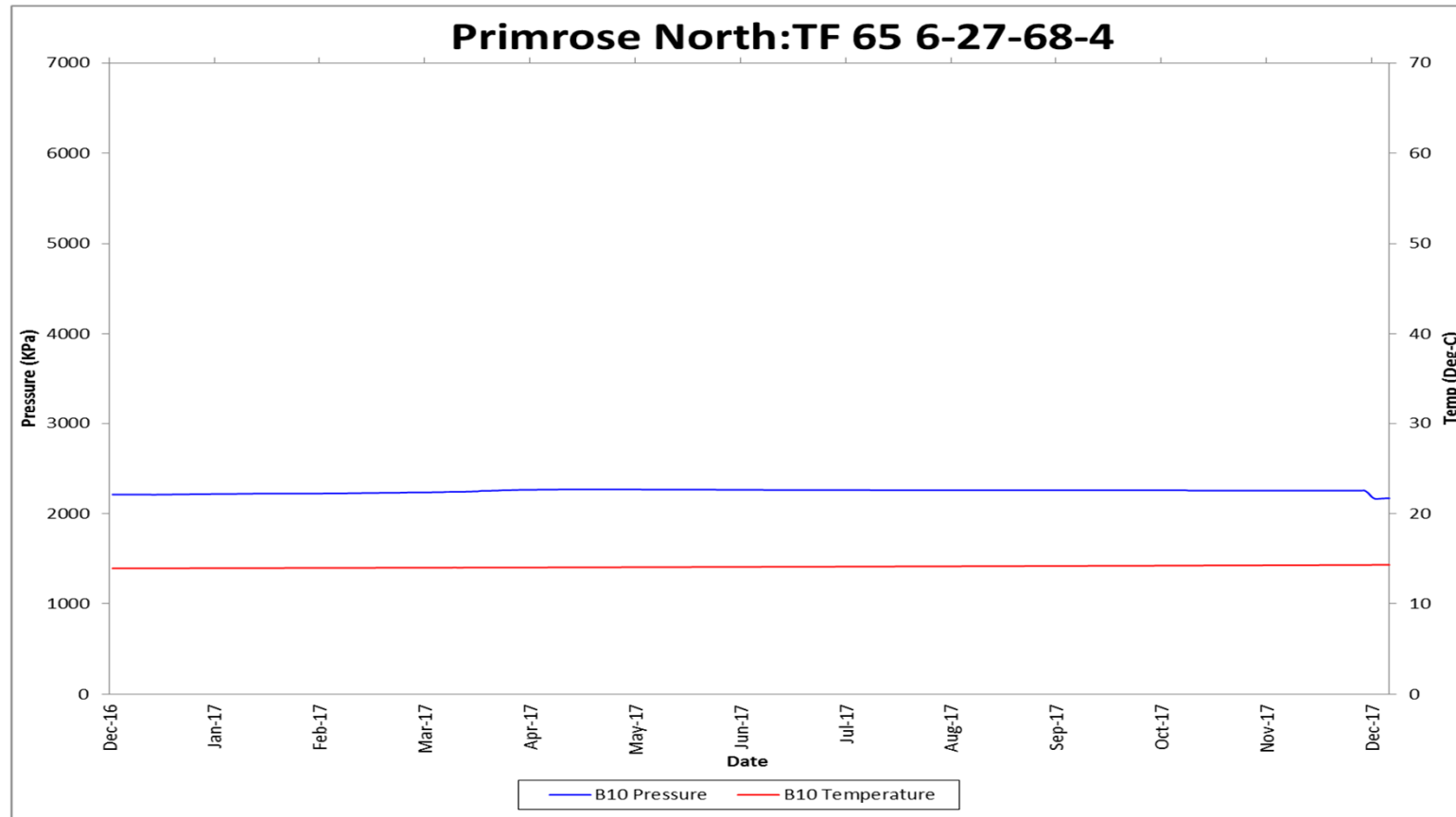
Primrose North Surface Pressure and Temperature Monitoring – 6-28



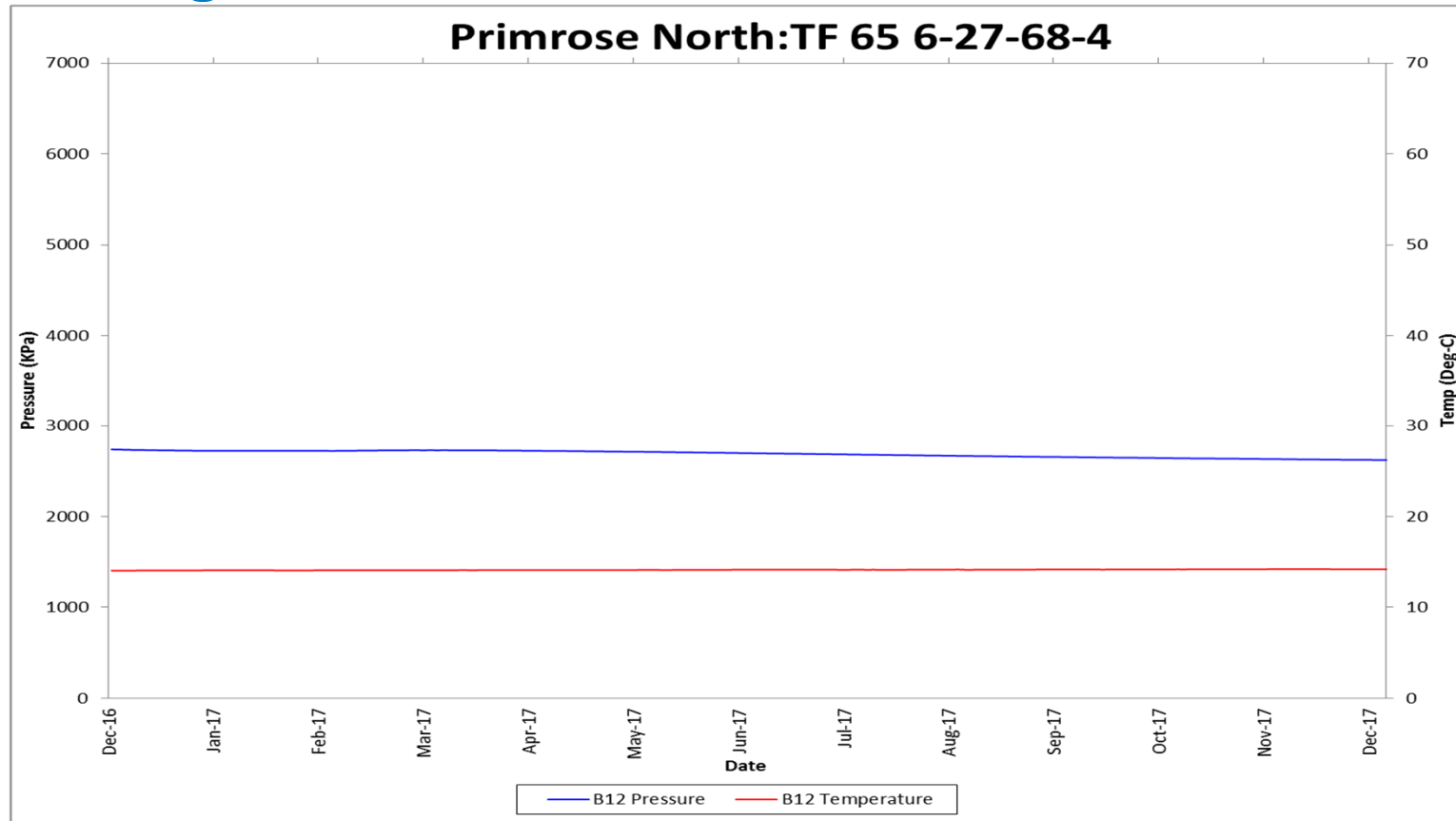
Primrose North B12 Pressure and Temperature Monitoring – TF 61 6-27-68-4



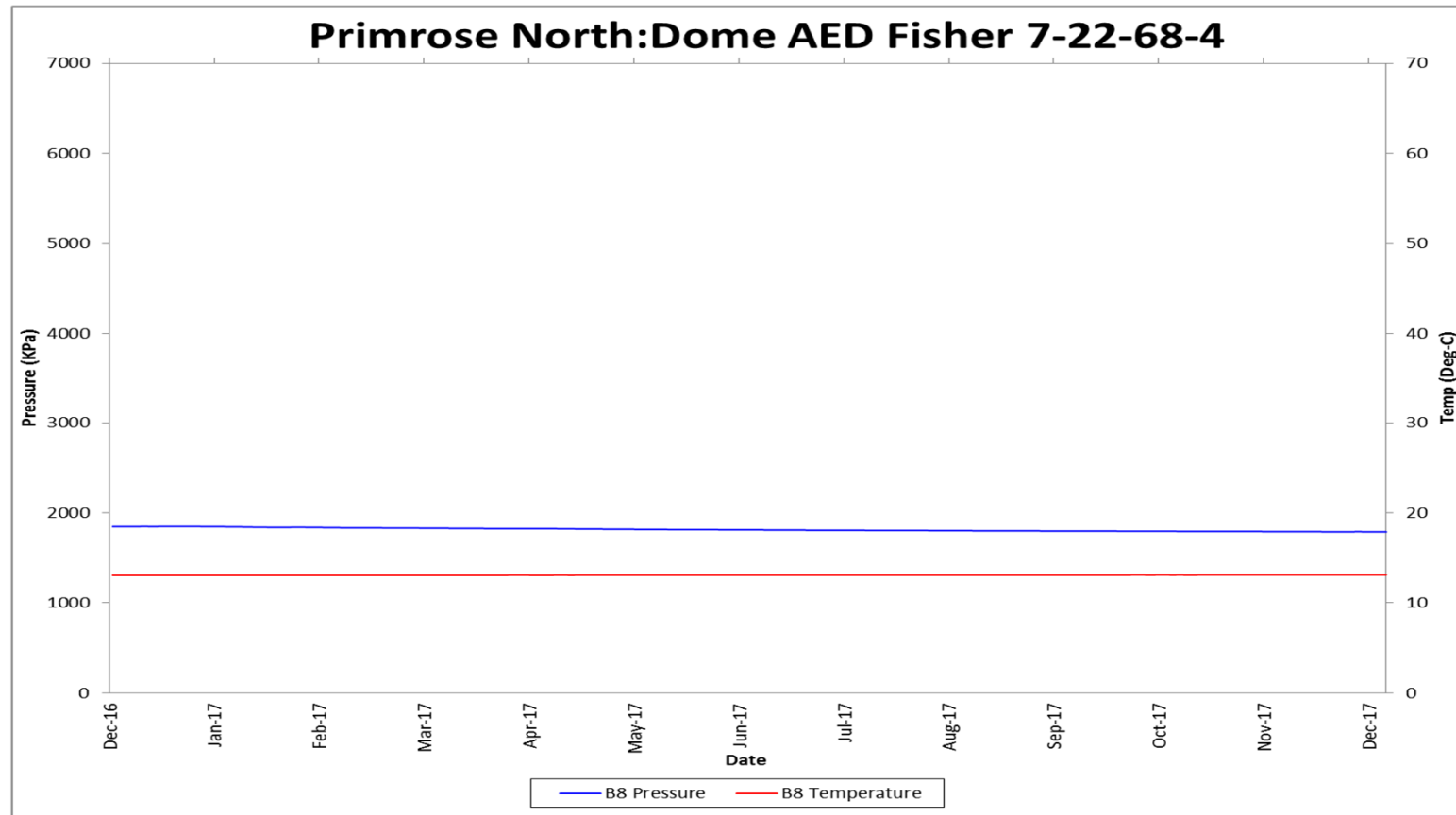
Primrose North B10/12 Pressure and Temperature Monitoring – TF 65 5-27



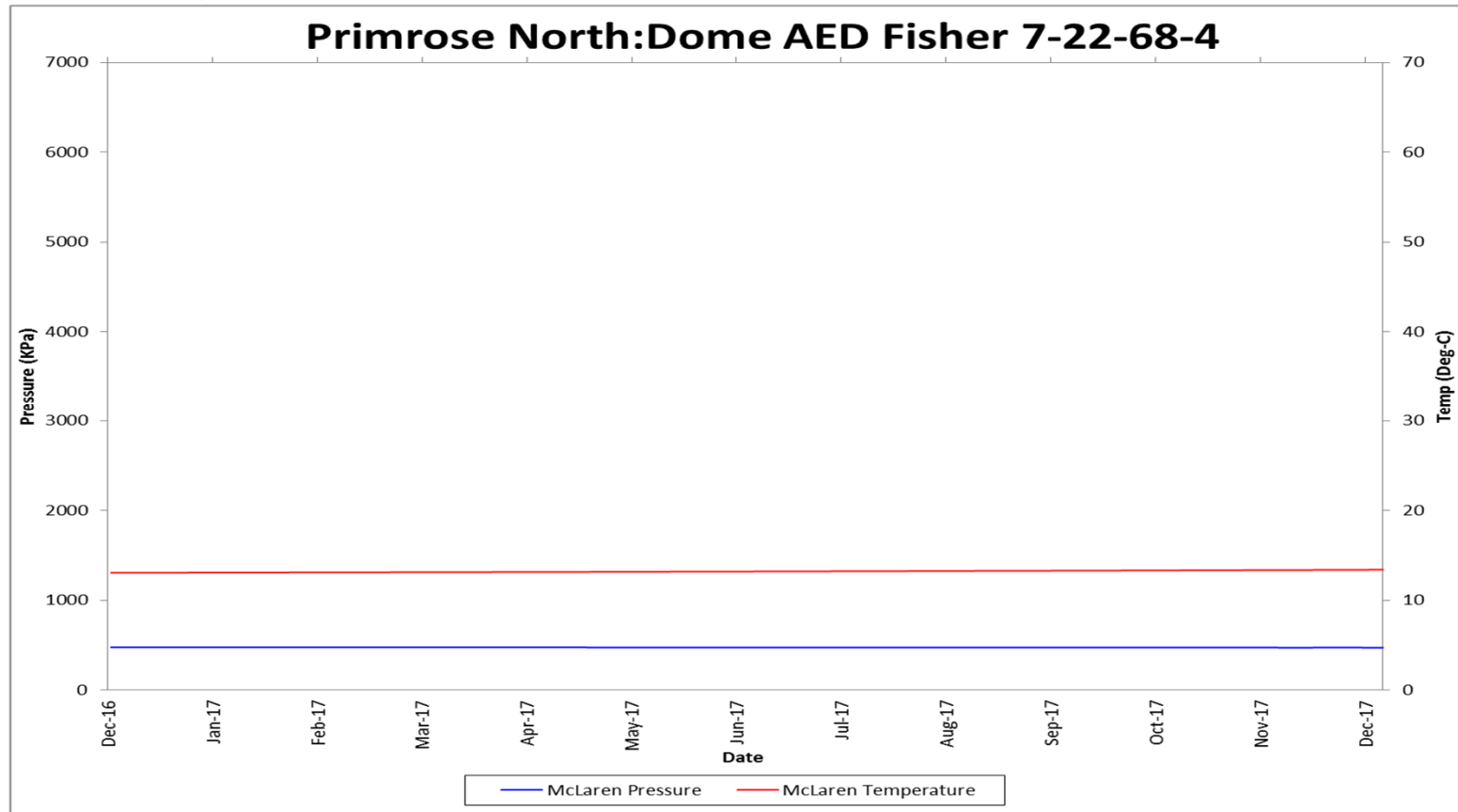
Primrose North B10/12 Pressure and Temperature Monitoring – TF 65 5-27



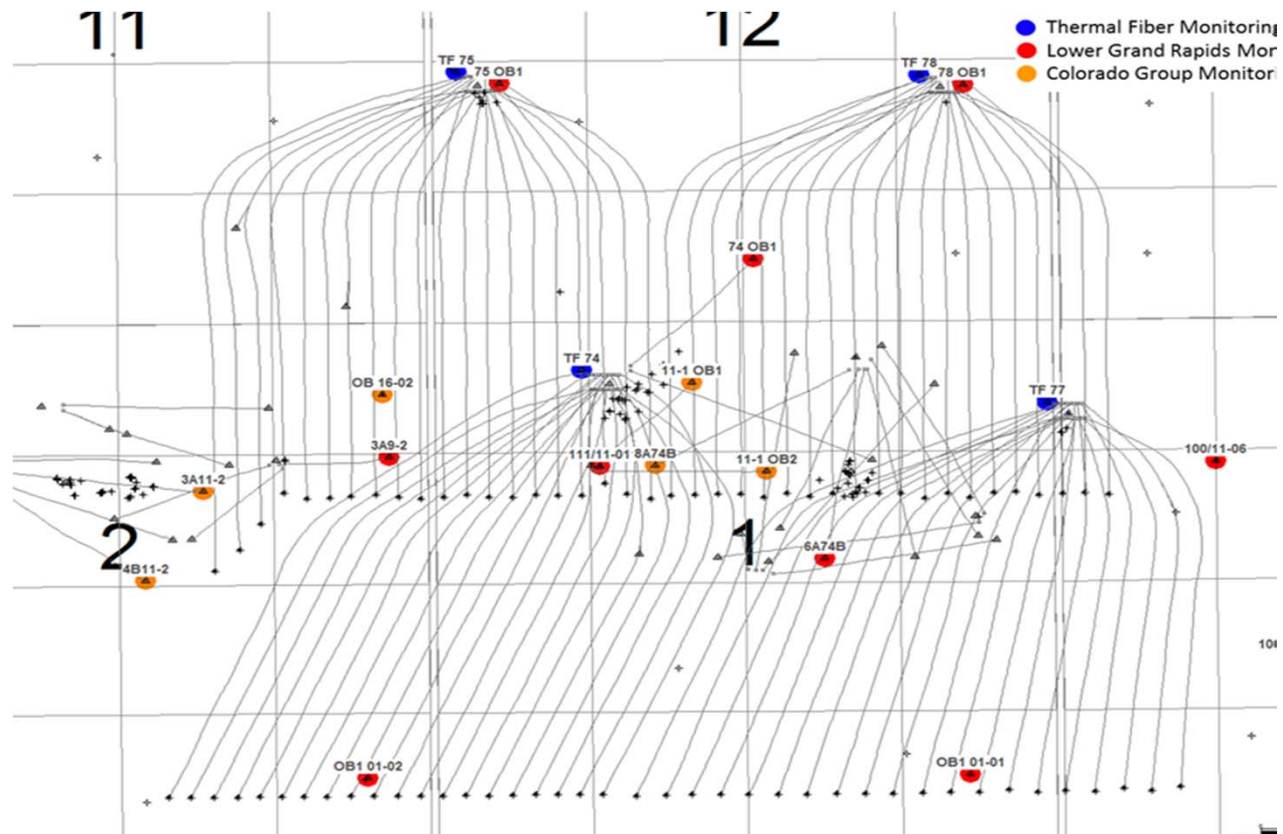
Primrose North B8 Pressure and Temperature Monitoring – 7-22



Primrose North McLaren Pressure and Temperature Monitoring – 7-22



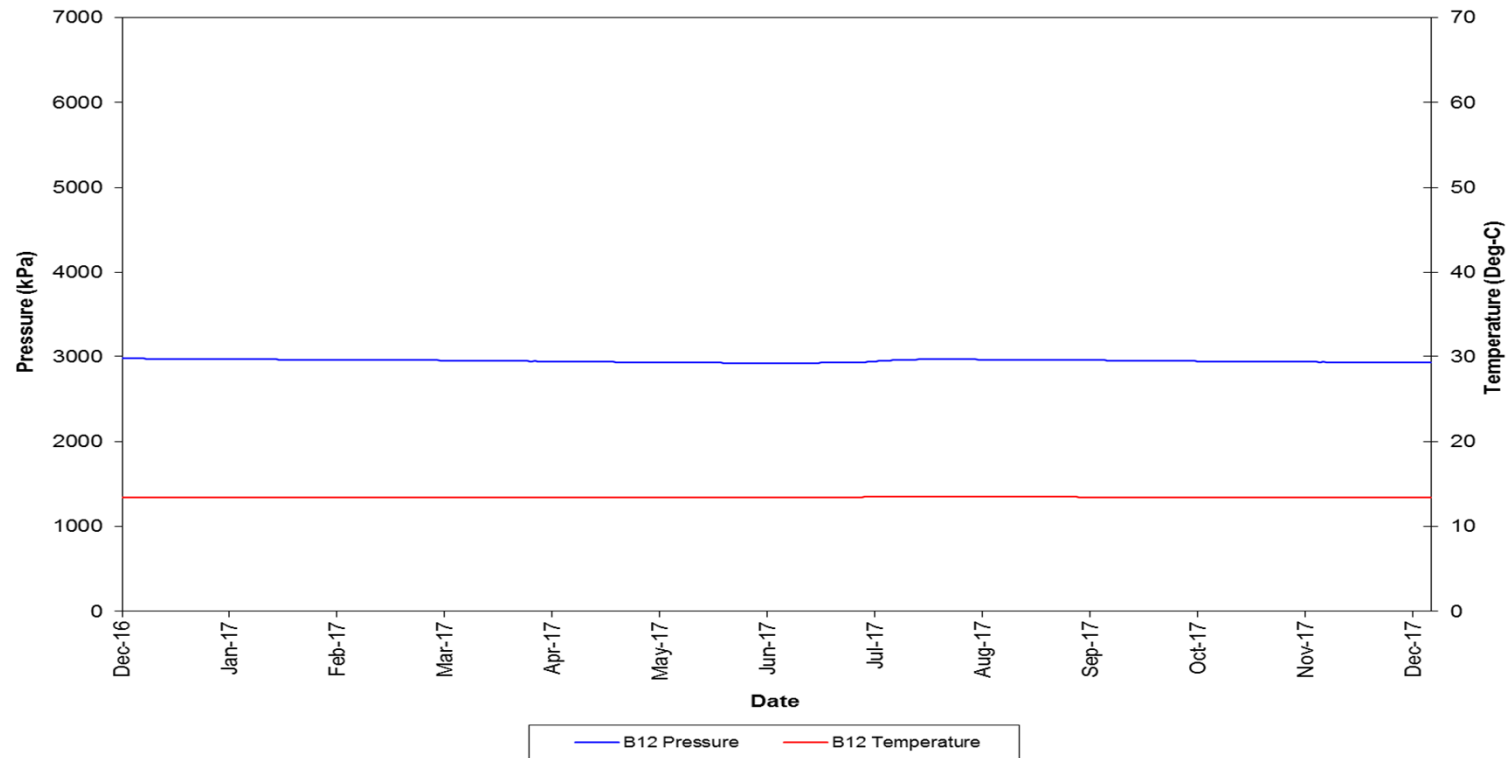
Observation Wells - Primrose East Area 1



Primrose East B12

Pressure & Temperature Monitoring – 74 OB1

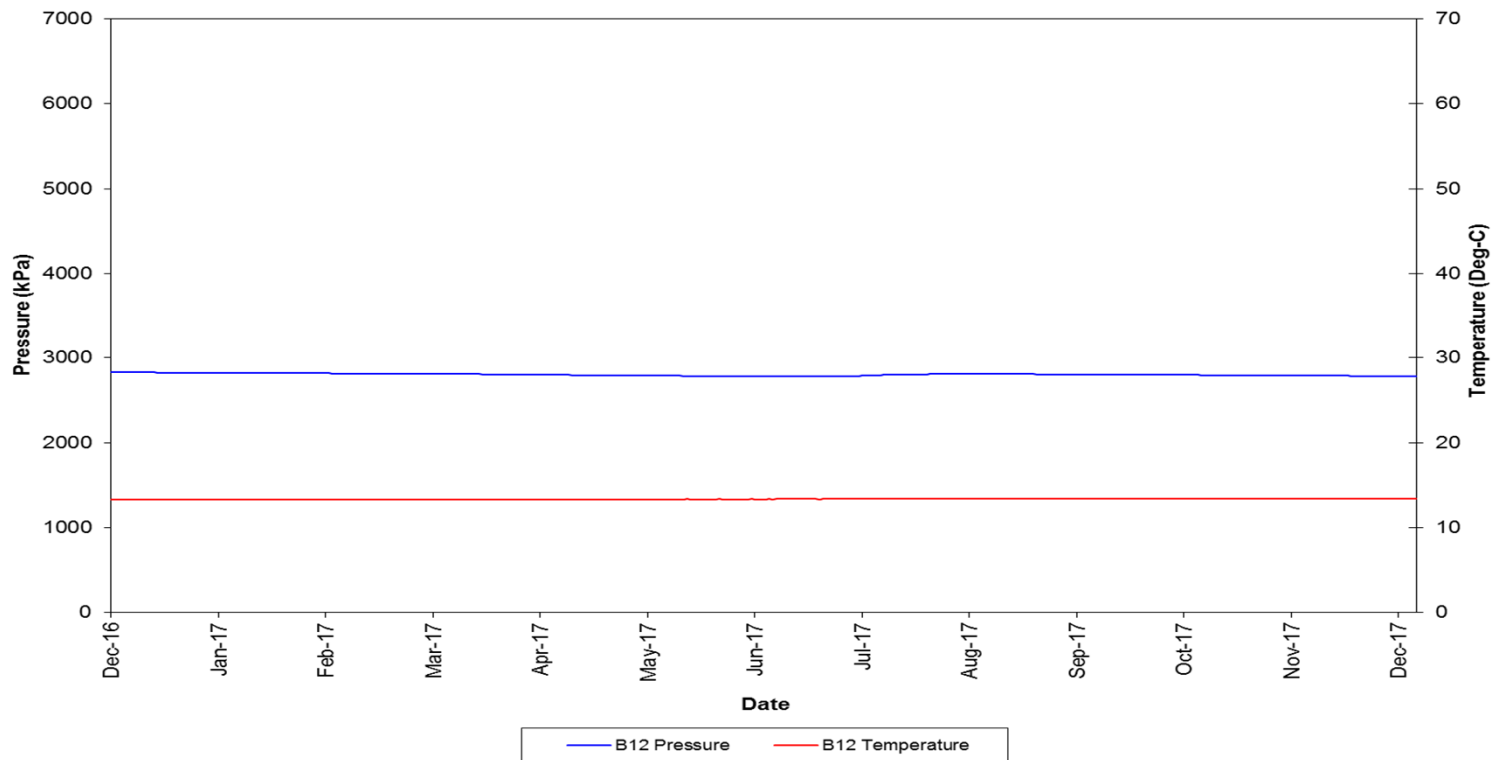
Primrose East: 74 OBS1 B12



Primrose East B12

Pressure & Temperature Monitoring – 75 OB1

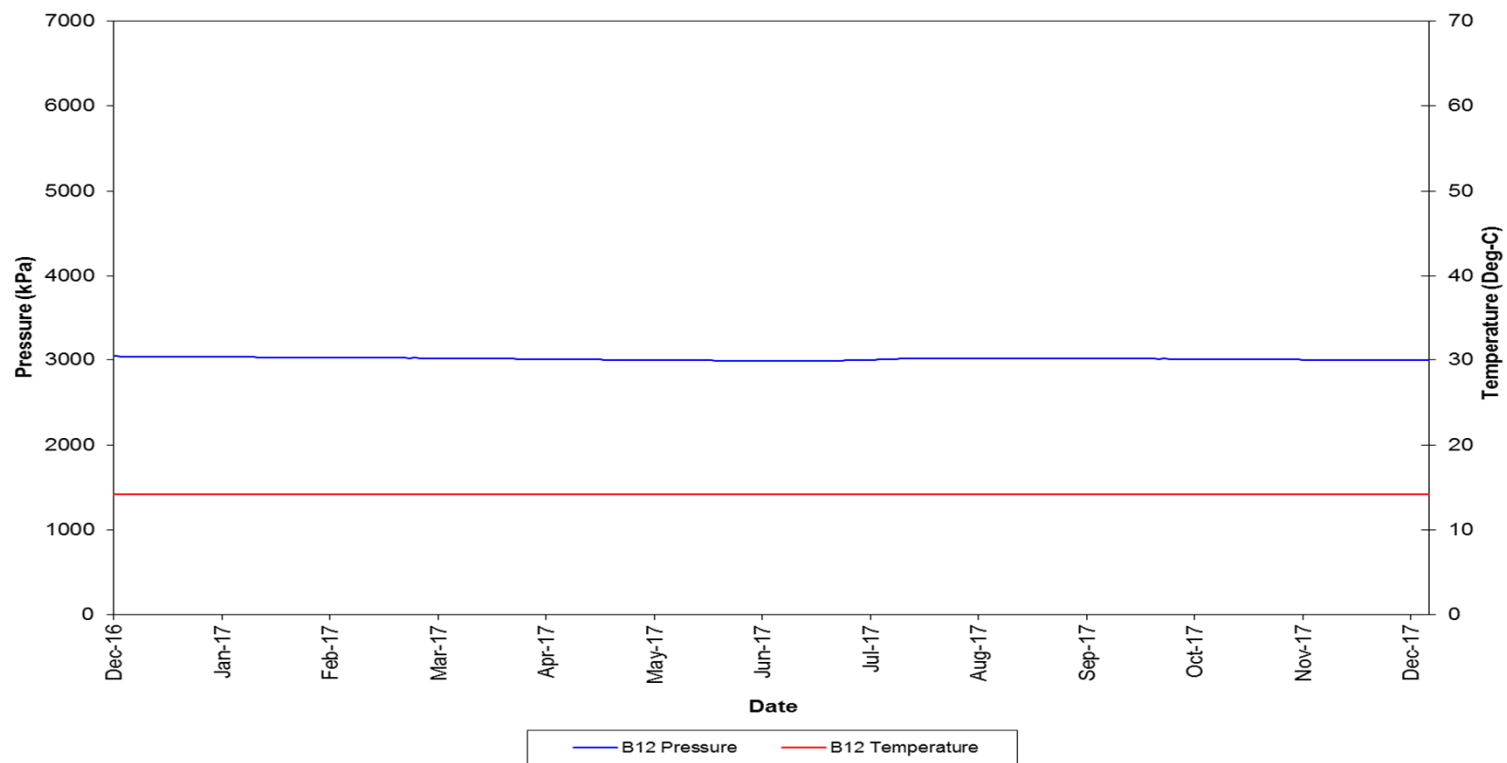
Primrose East: 75 OB1 B12



Primrose East B12

Pressure & Temperature Monitoring – 78 OB1

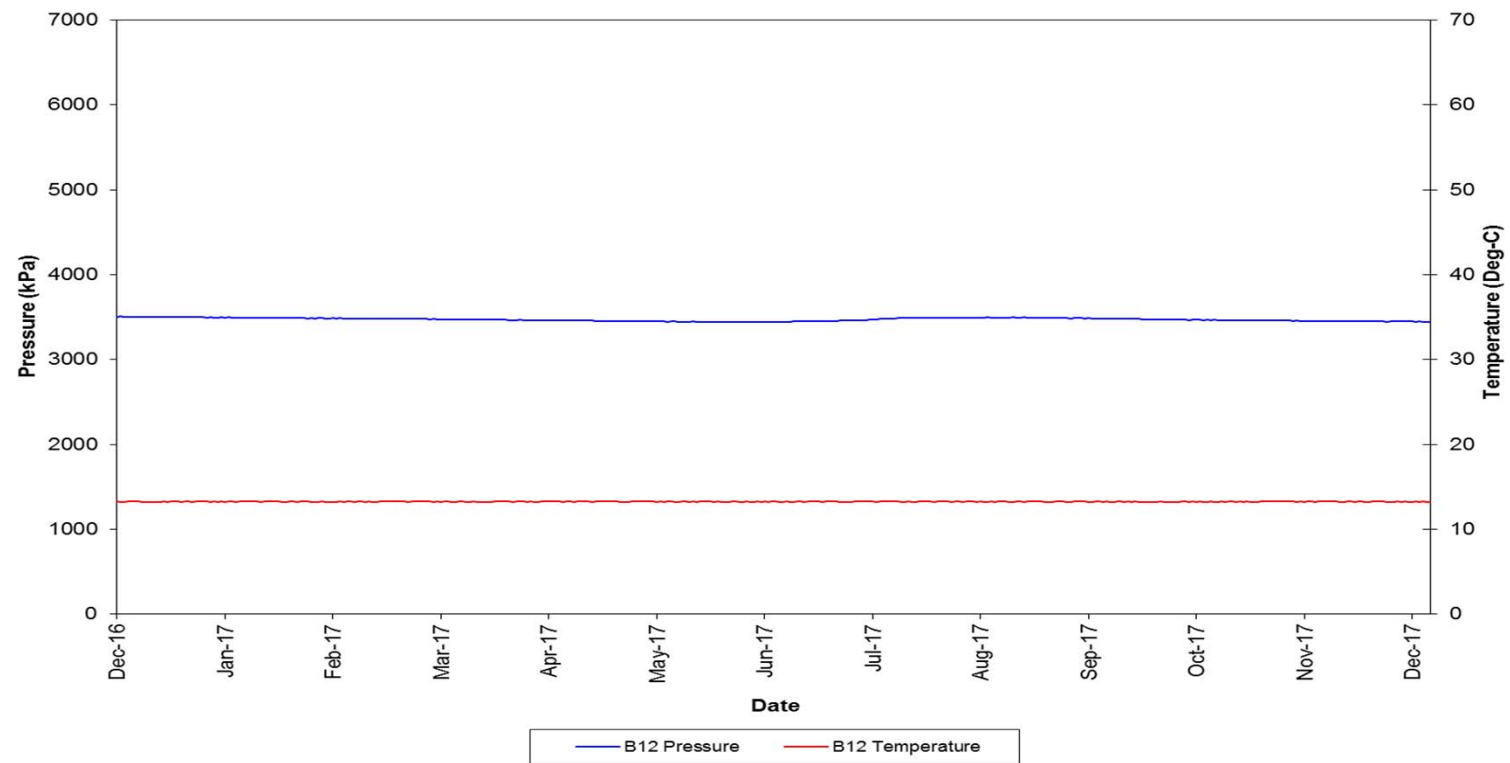
Primrose East: 78 OB1 B12



Primrose East B12

Pressure & Temperature Monitoring – 11-6 OBS

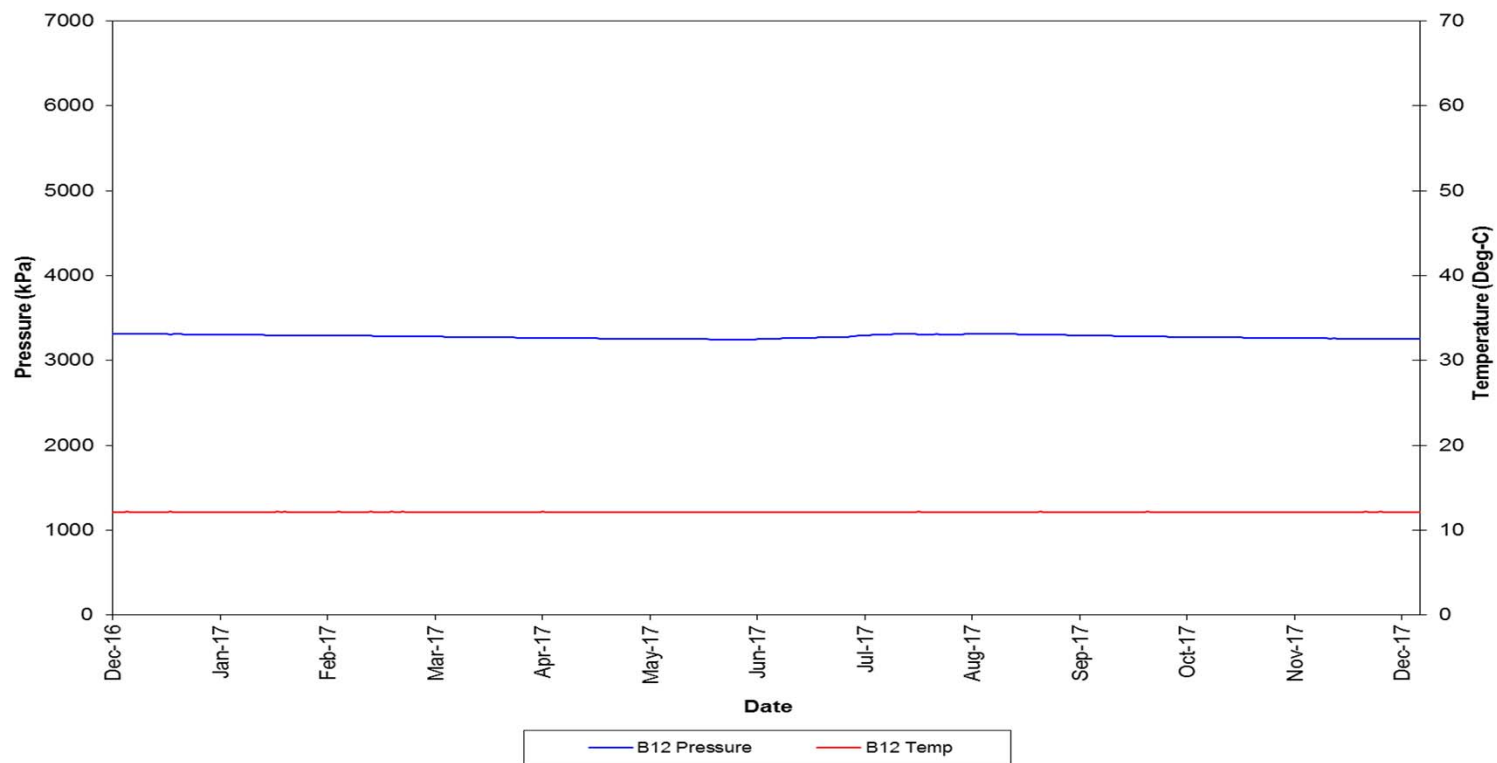
Primrose East: 11-6 B12



Primrose East B12

Pressure & Temperature Monitoring – 6-6 OBS

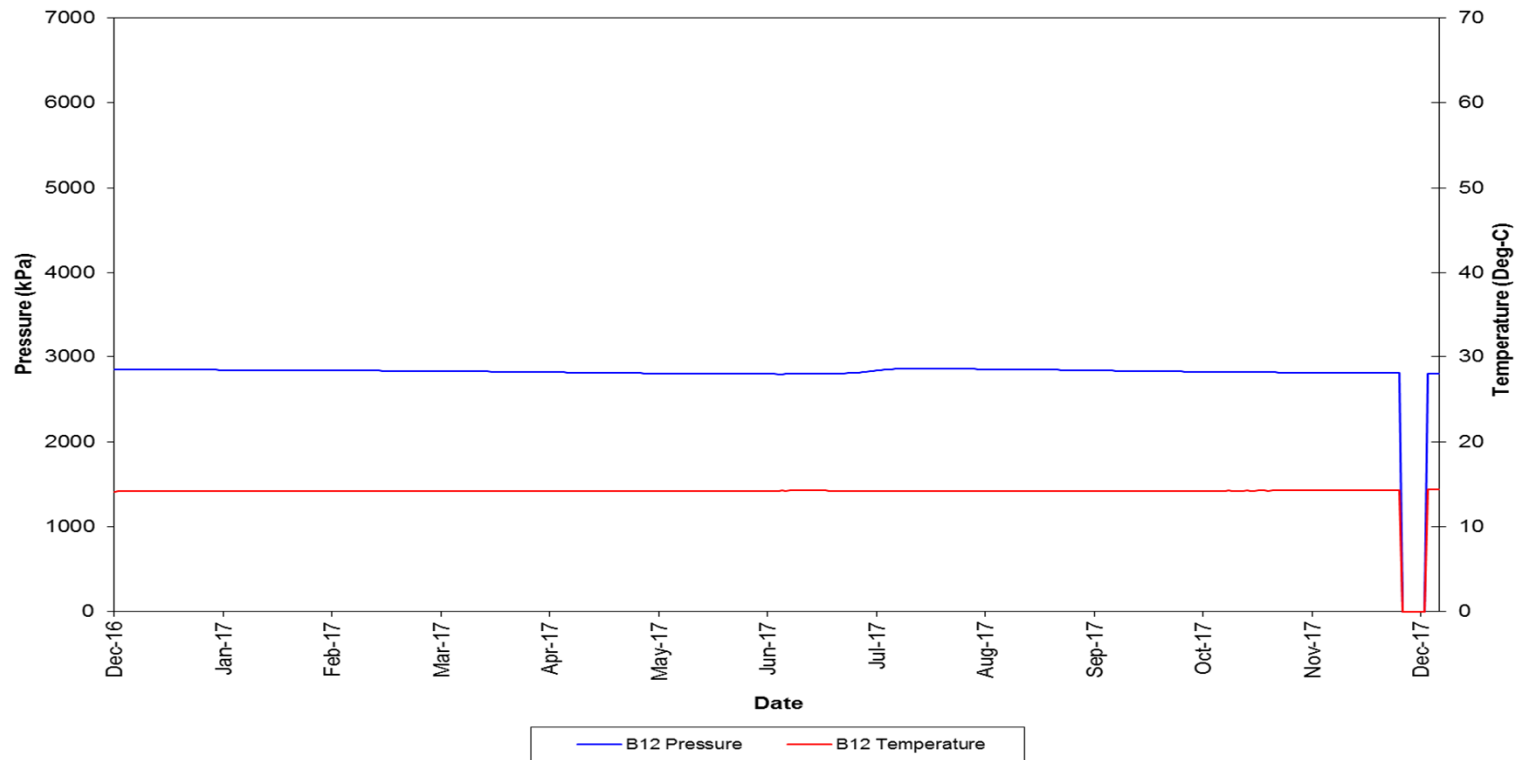
Primrose East: 6-6 B12



Primrose East B12

Pressure & Temperature Monitoring – 111/11-1

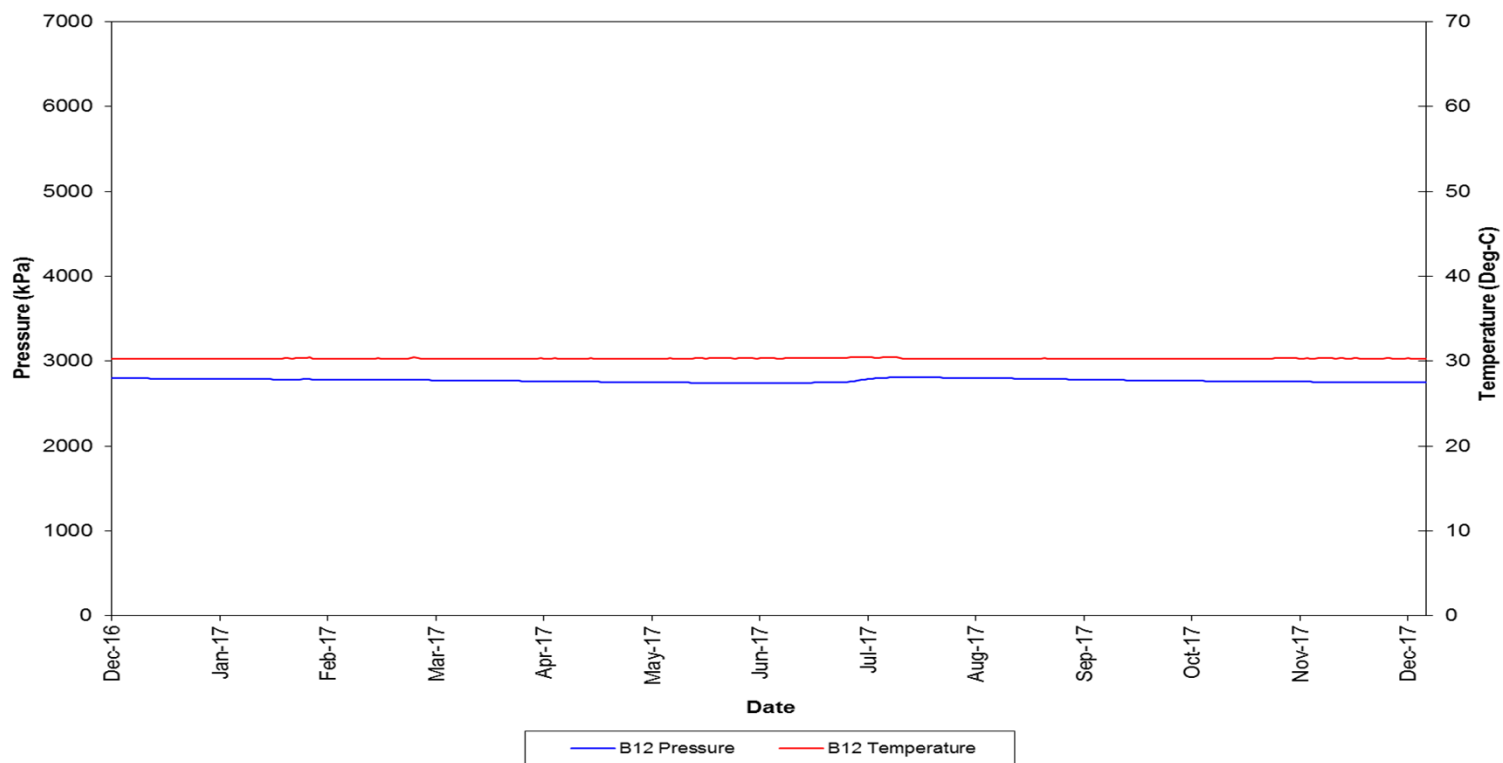
Primrose East: 111/11-1 B12



Primrose East B12

Pressure & Temperature Monitoring – 3A9-2 OBS

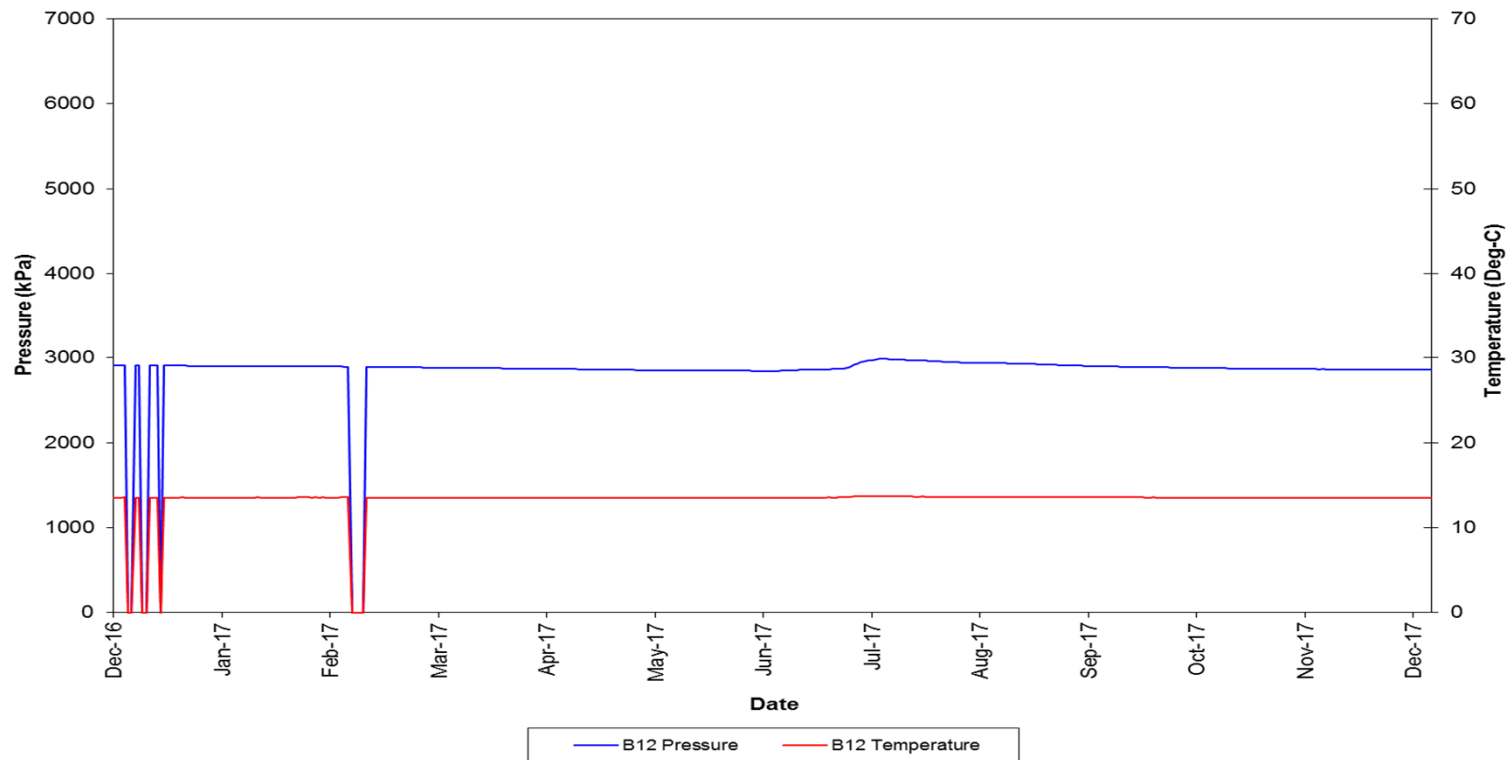
Primrose East: 3A9-2 B12



Primrose East B12

Pressure & Temperature Monitoring – OB1 01-02

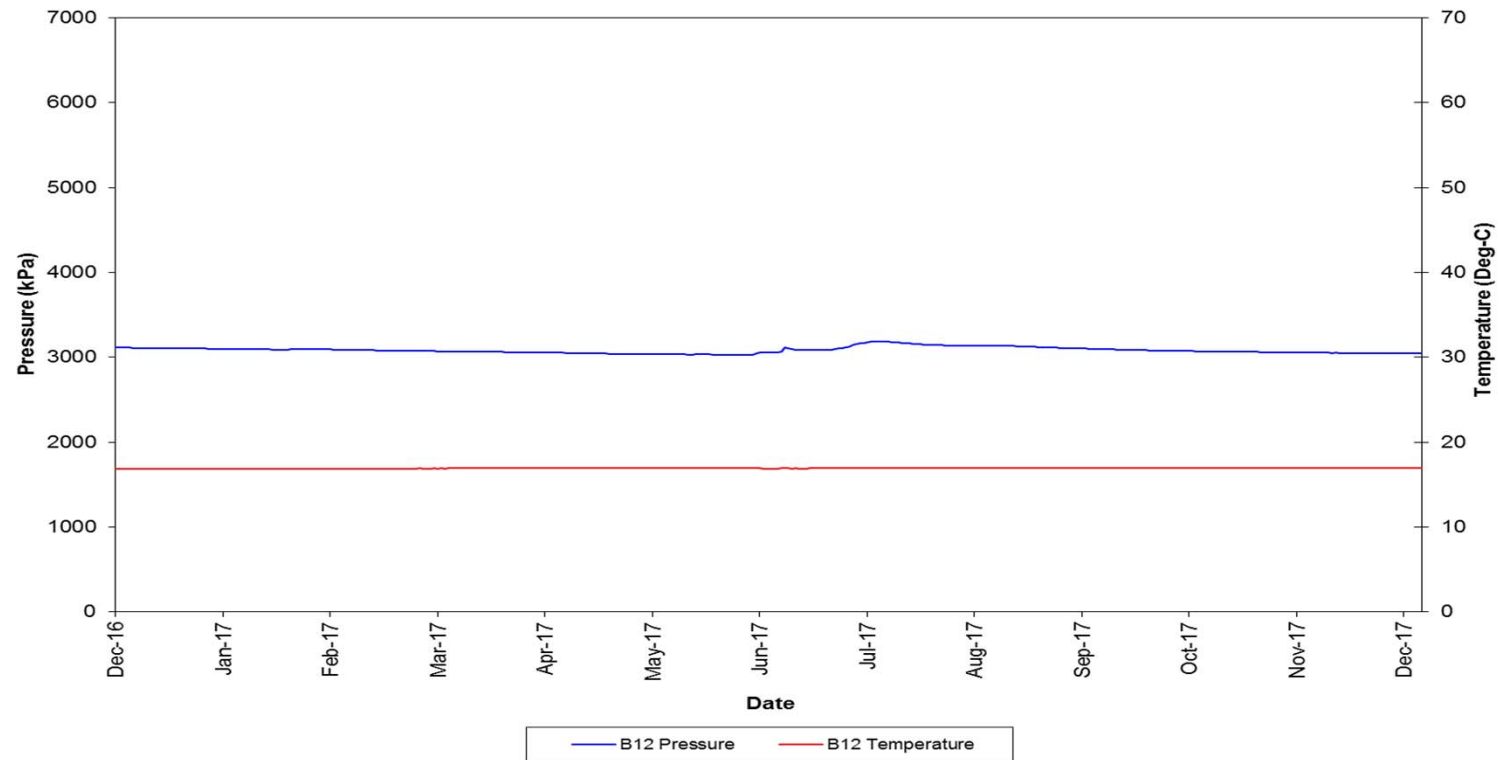
Primrose East: OB1 01-02 B12



Primrose East B12

Pressure & Temperature Monitoring – OB1 01-01

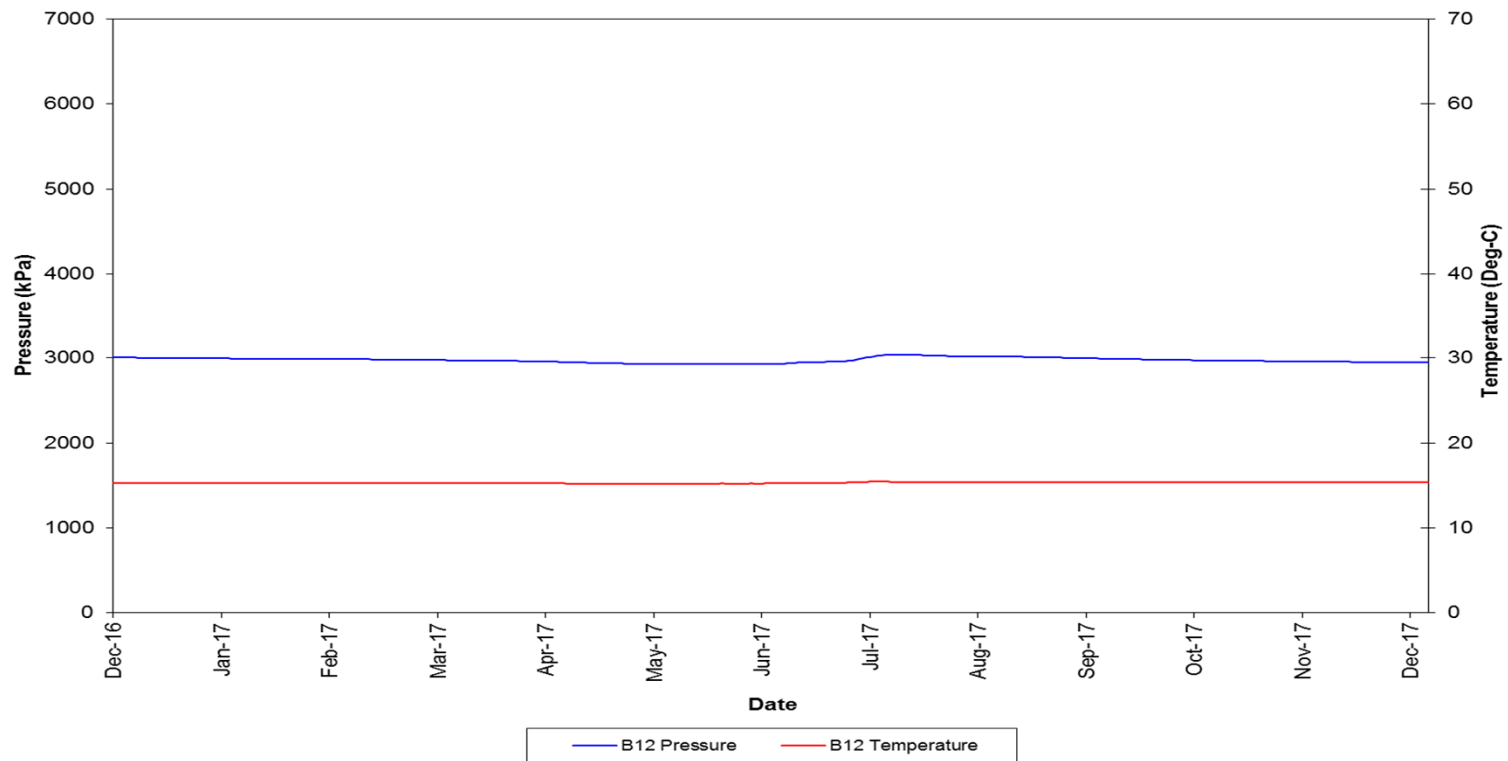
Primrose East: OB1 01-01 B12



Primrose East B12

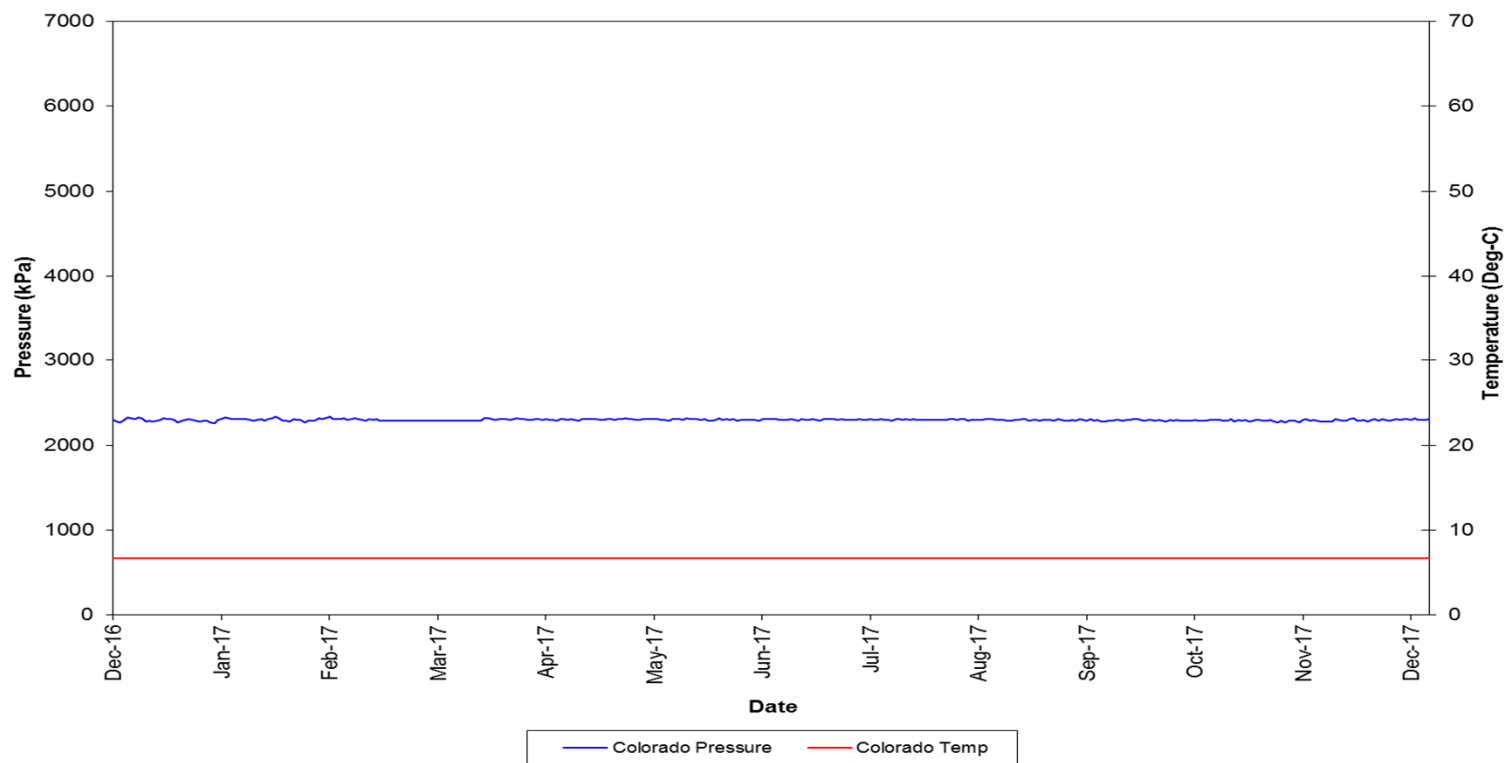
Pressure & Temperature Monitoring – 6A74B

Primrose East: 6A74B



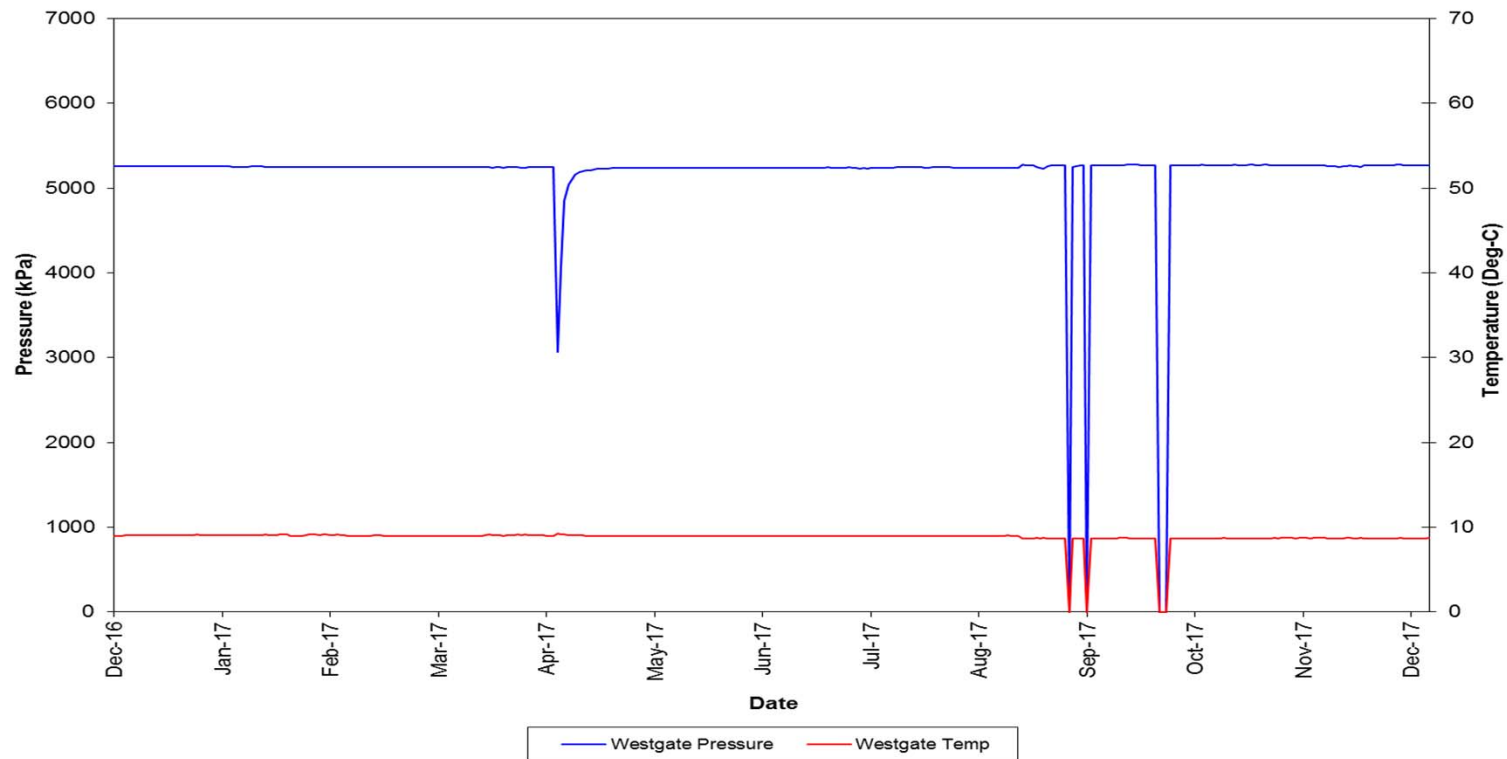
Primrose East Colorado Pressure & Temperature Monitoring – 11-1 OB1

Primrose East: 11-1 OB1 Colorado



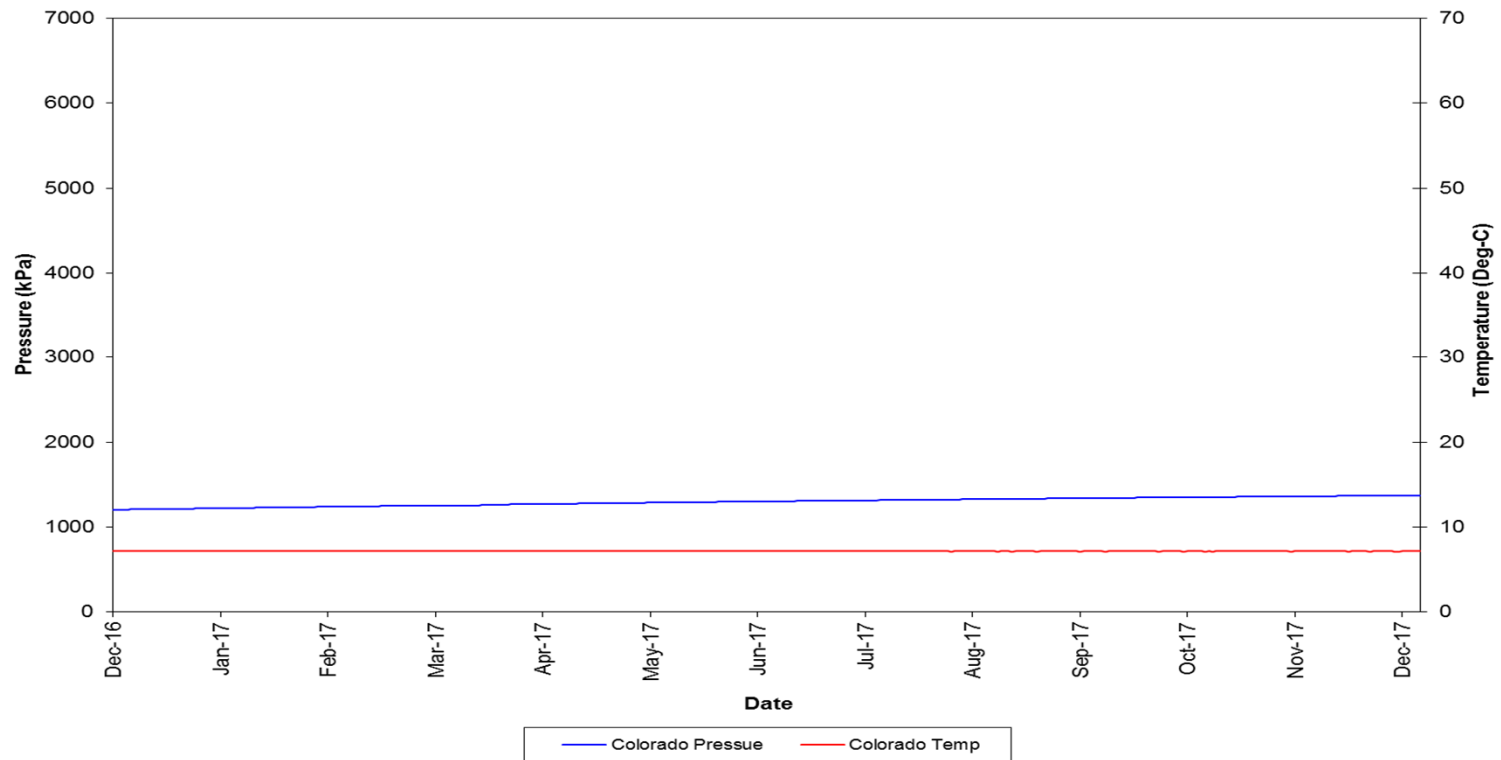
Primrose East Westgate Pressure & Temperature Monitoring – 11-1 OB2

Primrose East: 11-1 OB2 WSGT



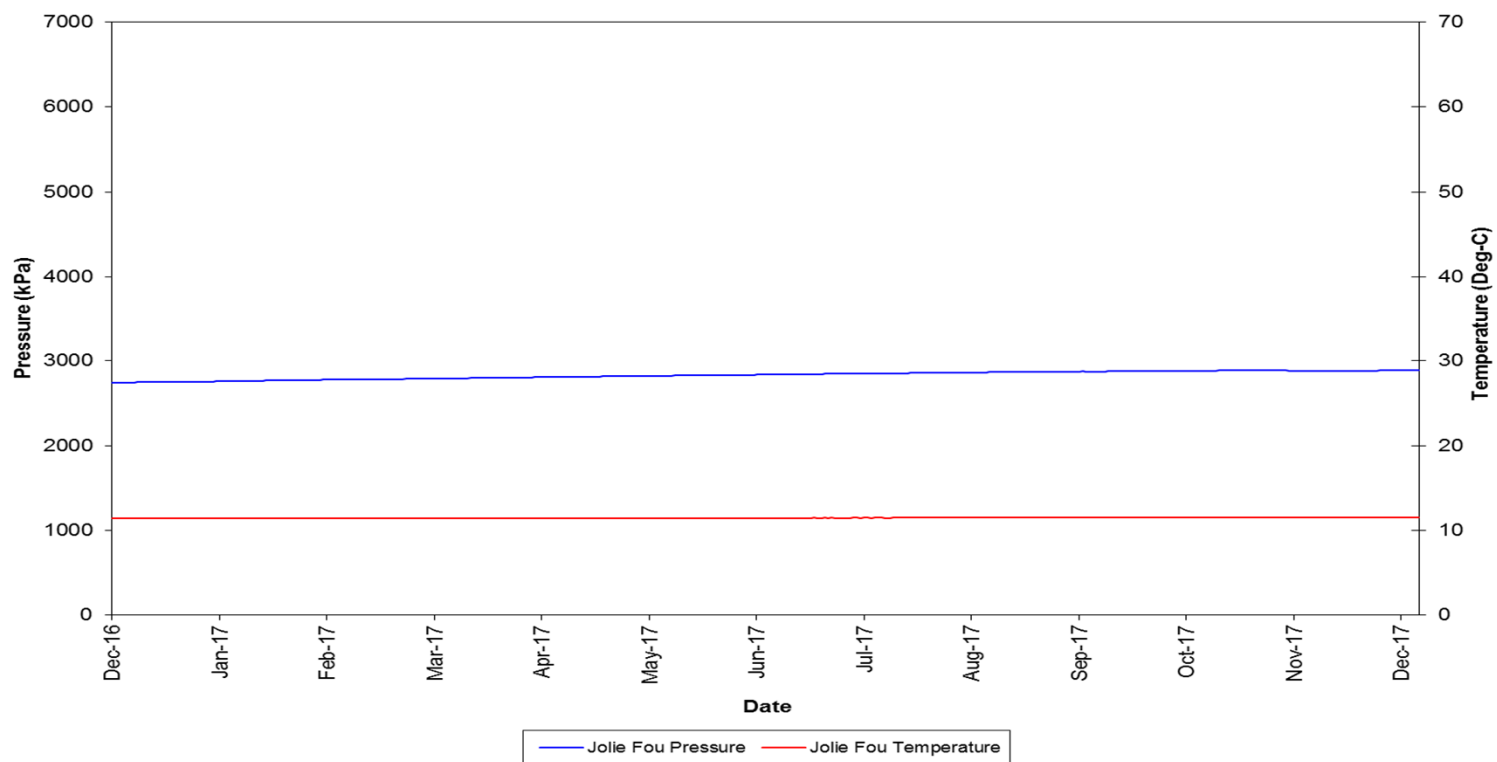
Primrose East Colorado Pressure & Temperature Monitoring – 11-1 OB4

Primrose East: 111/11-1 Colorado



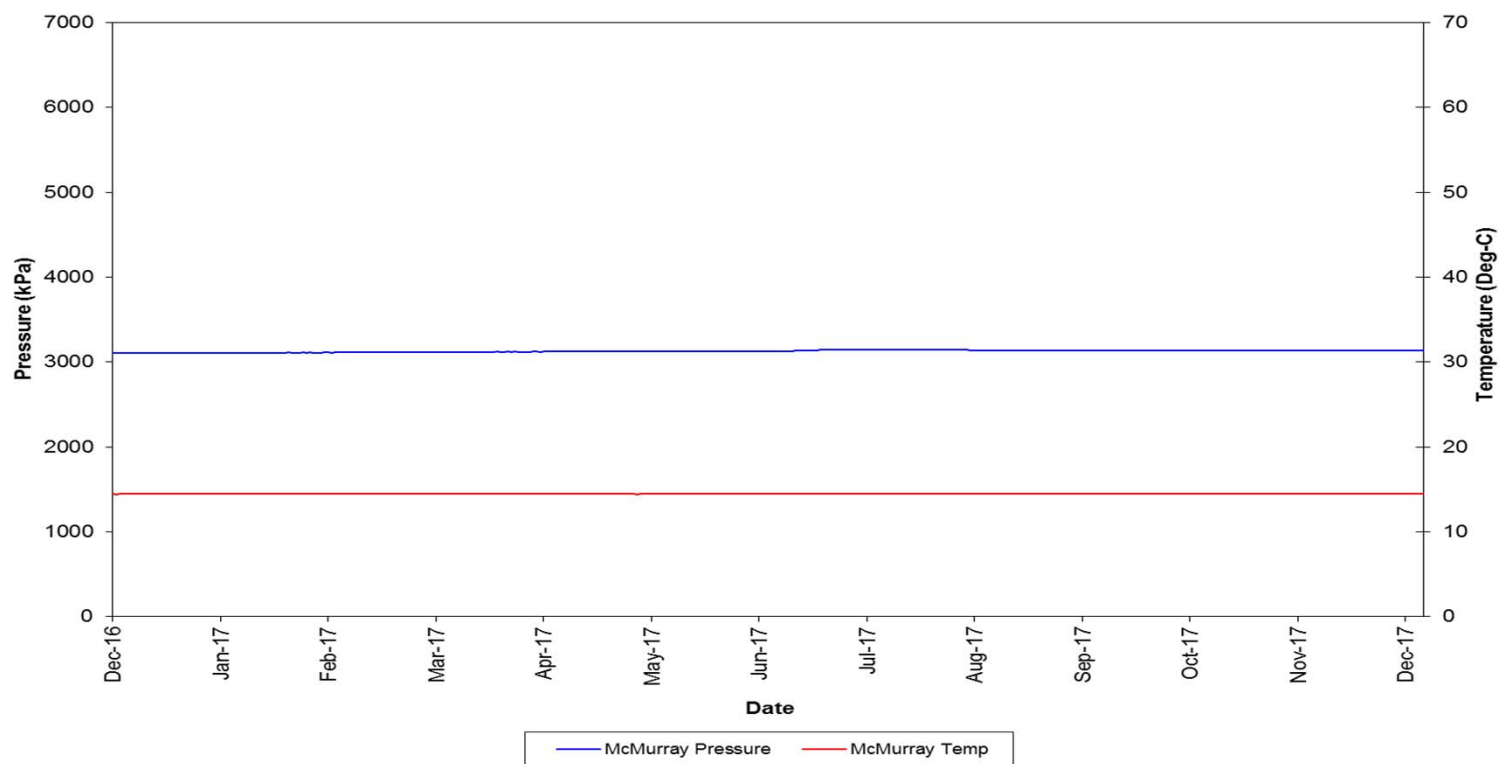
Primrose East Jolie Fou Pressure & Temperature Monitoring – 16-02

Primrose East: OB 16-02 Jolie Fou



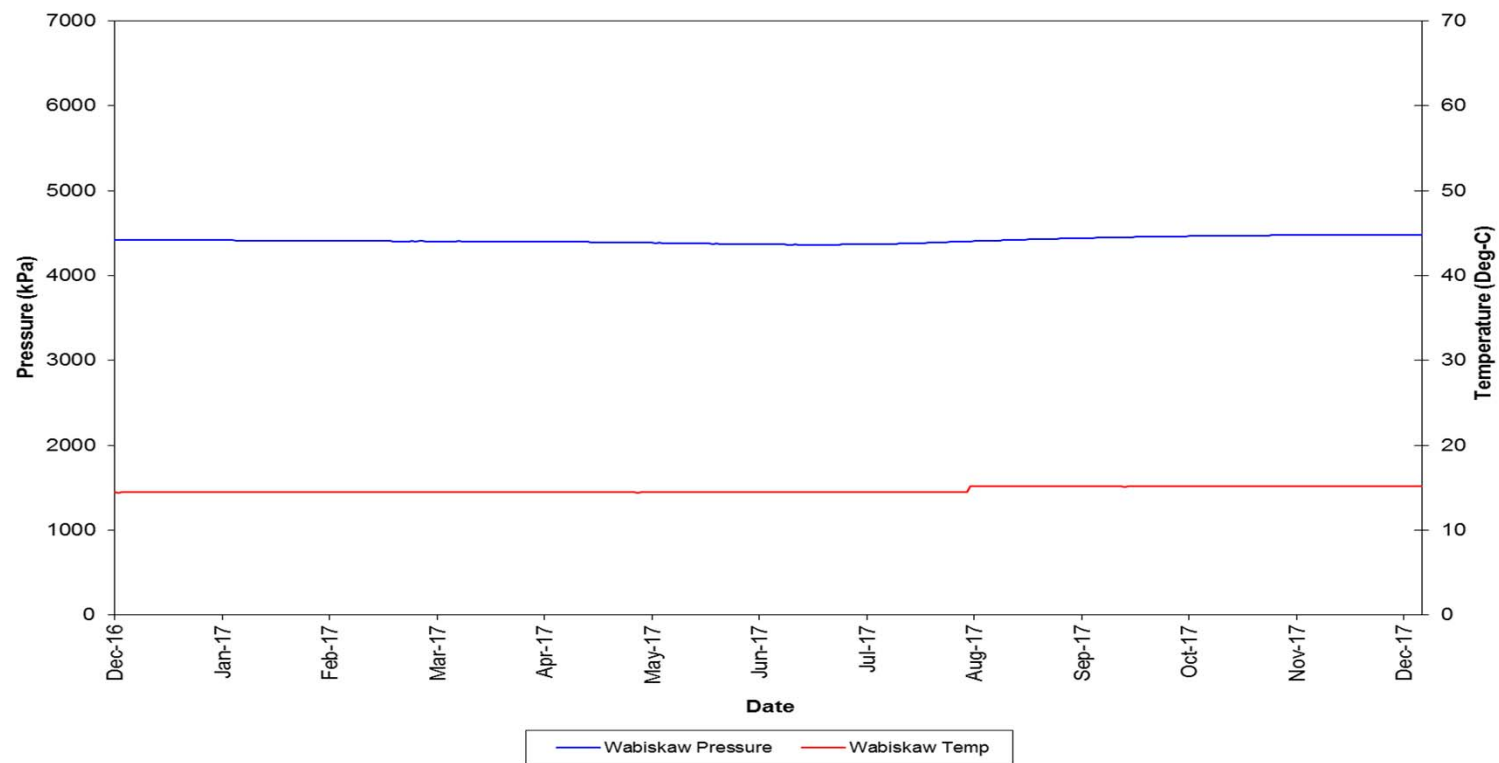
Primrose East McMurray Pressure & Temperature Monitoring – 11-6 OBS

Primrose East: 11-6 McMurray



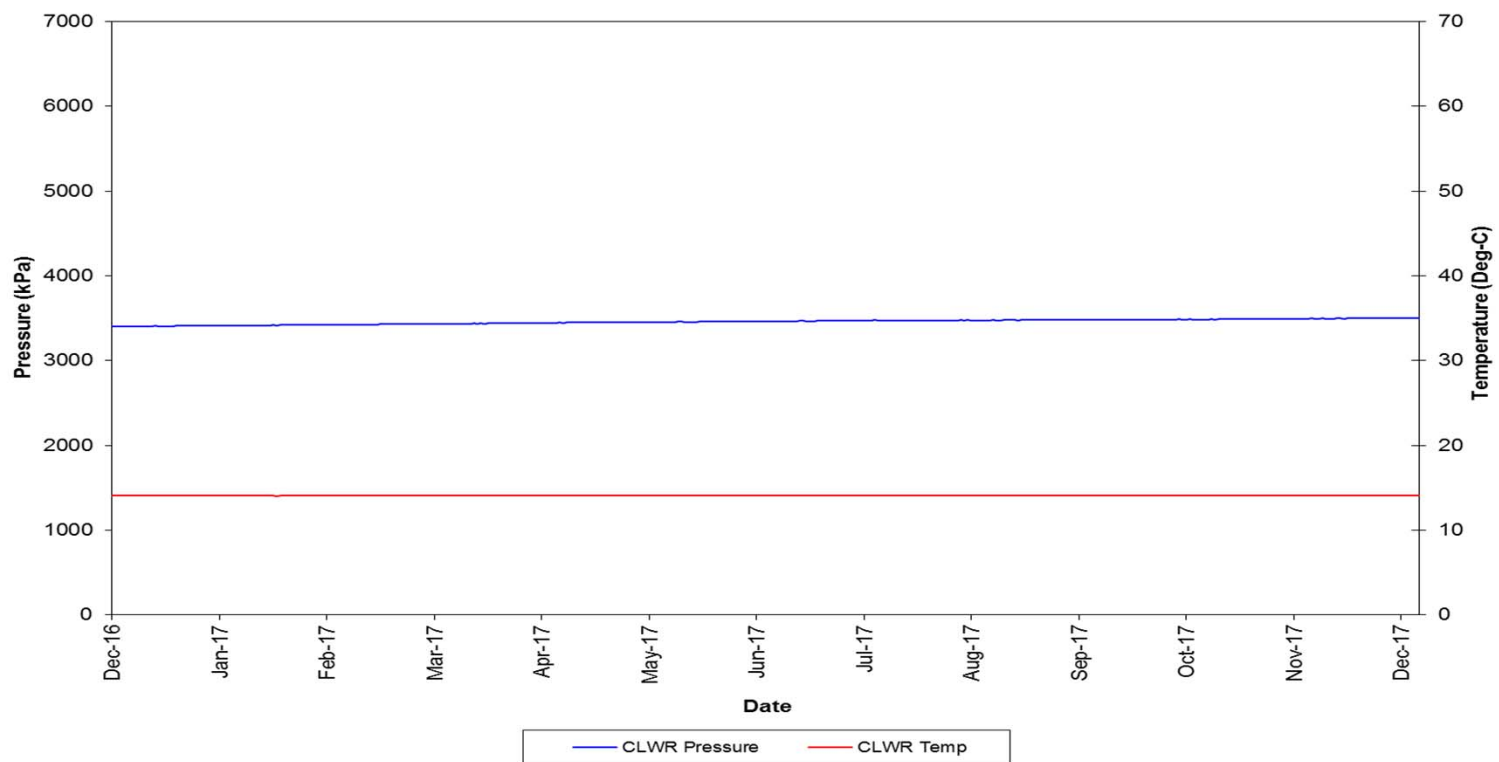
Primrose East Wabiskaw Pressure & Temperature Monitoring – 11-6 OBS

Primrose East: 11-6 Wabiskaw



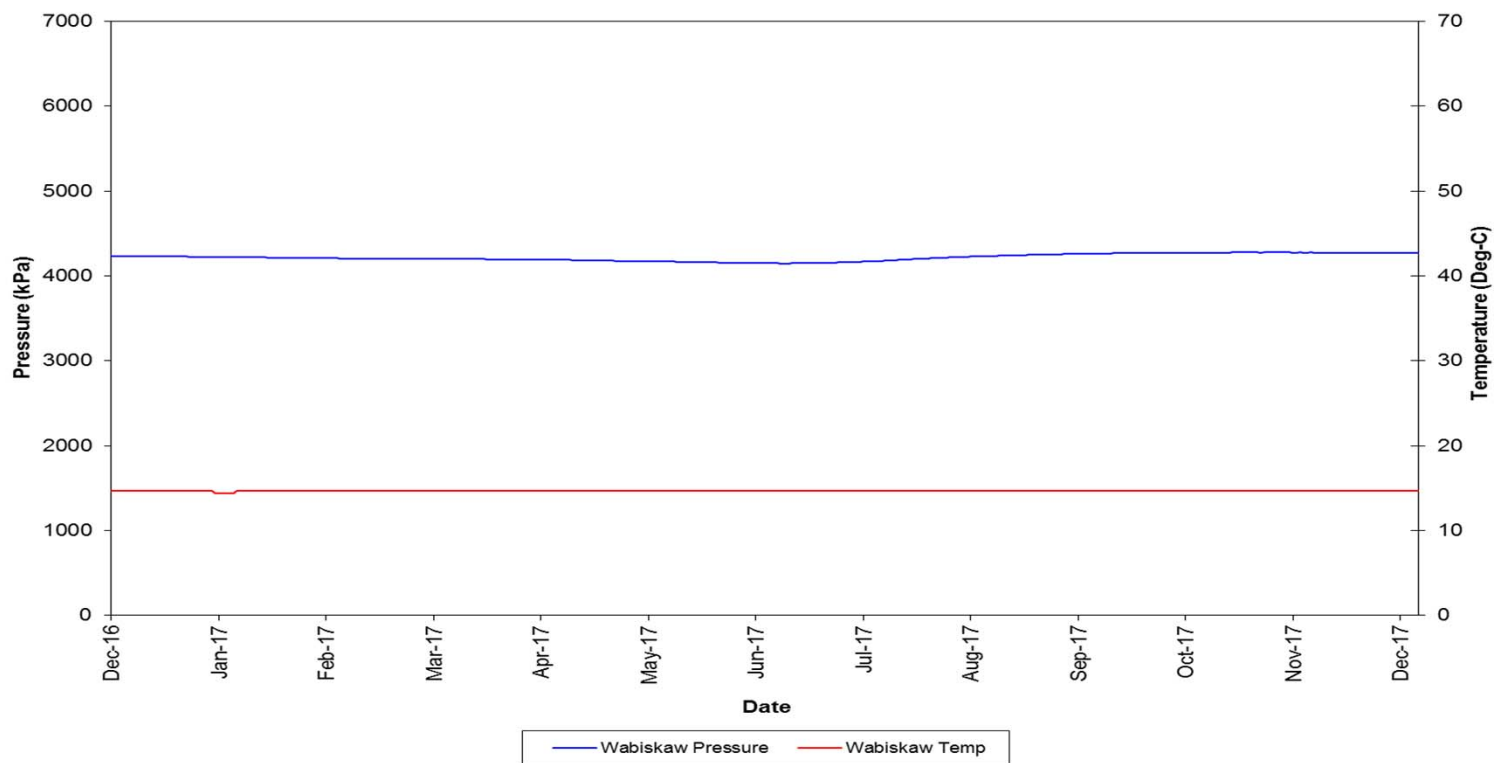
Primrose East Clearwater Pressure & Temperature Monitoring – 11-6 OBS

Primrose East: 11-6 Clearwater



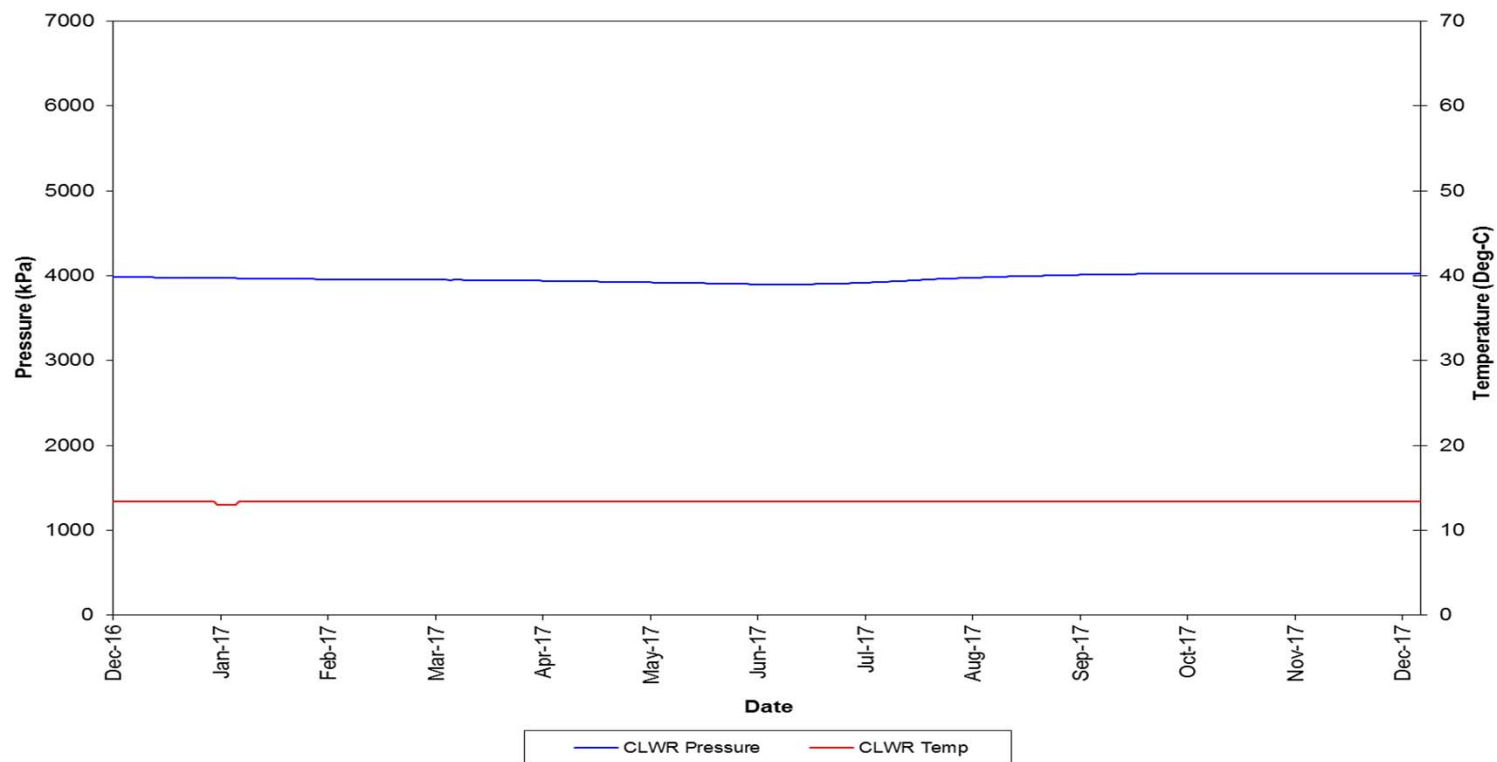
Primrose East Wabiskaw Pressure & Temperature Monitoring – 6-6 OBS

Primrose East: 6-6 Wabiskaw



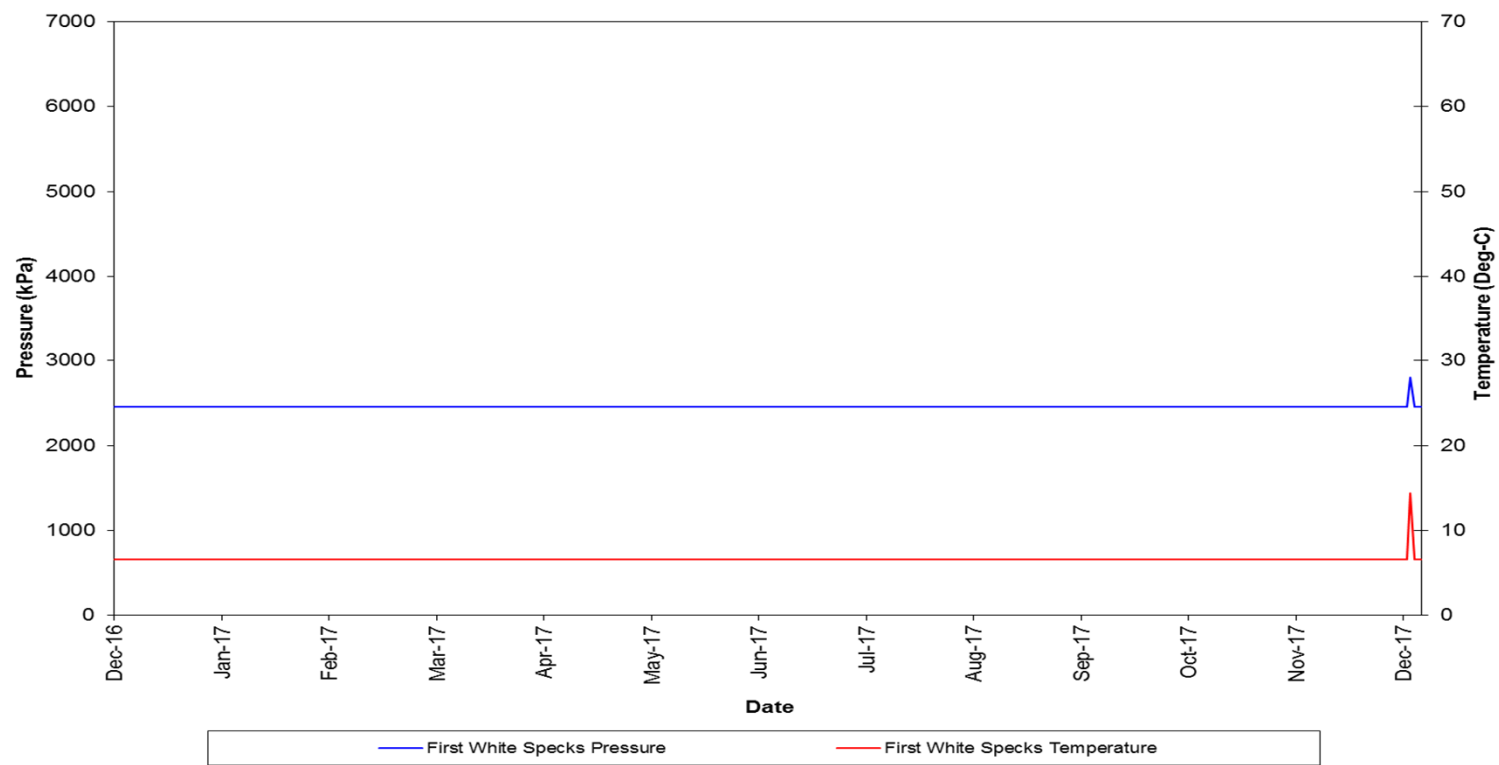
Primrose East Clearwater Pressure & Temperature Monitoring – 6-6 OBS

Primrose East: 6-6 Clearwater



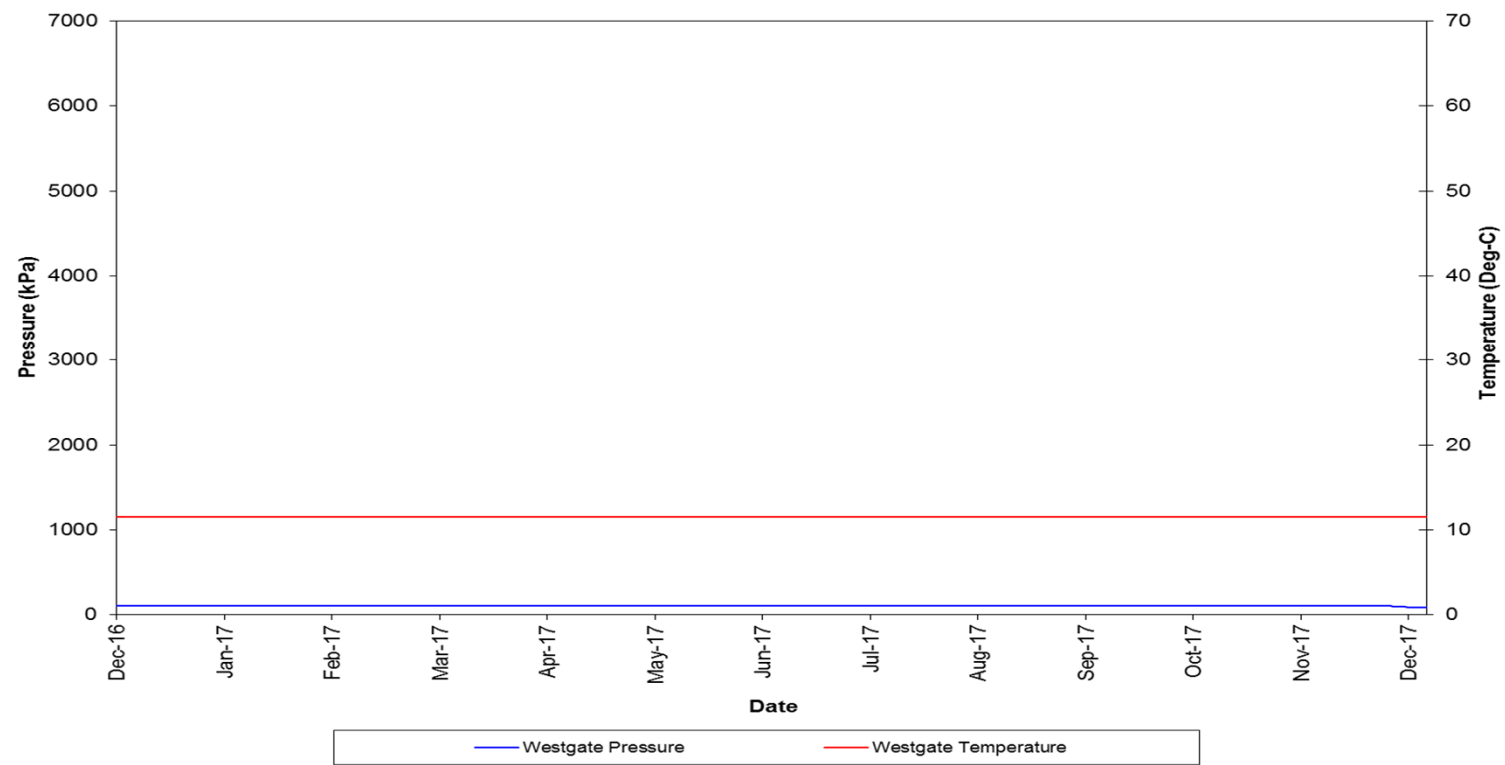
Primrose East First White Specks Pressure & Temperature Monitoring – 3A11-2

Primrose East: 3A11-2 First White Specks



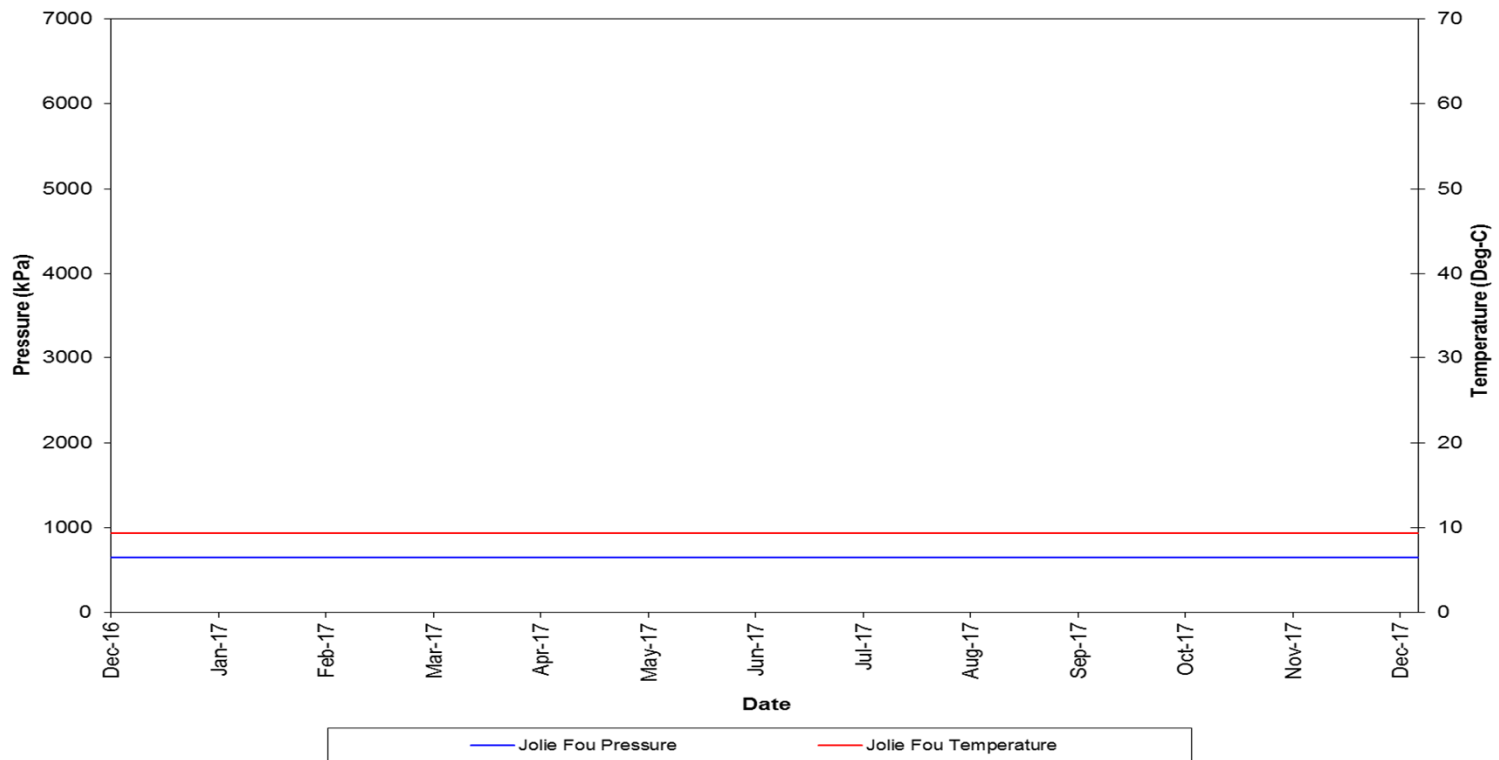
Primrose East Westgate Pressure & Temperature Monitoring – 4A11-2

Primrose East: 4A11-2 Westgate



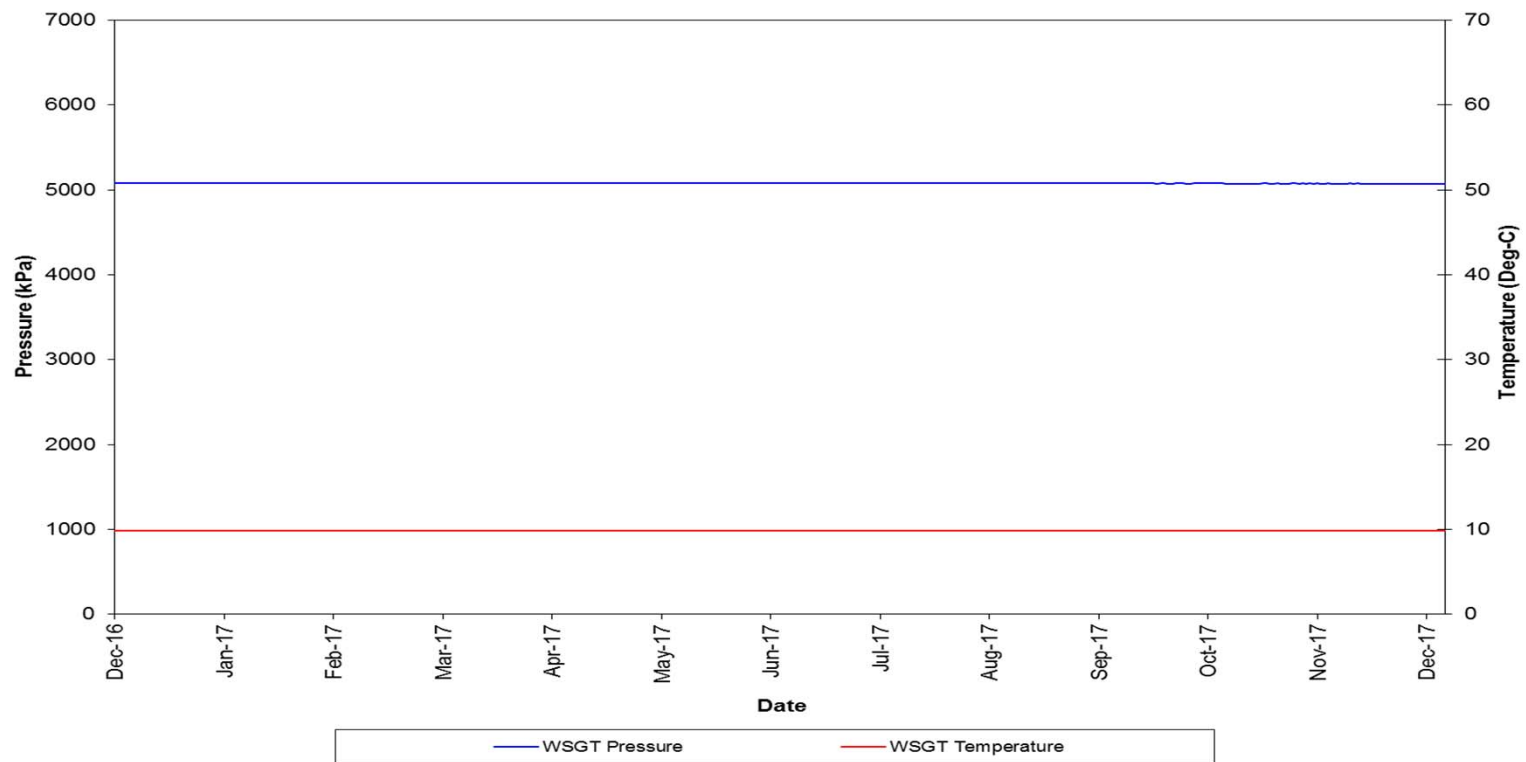
Primrose East Jolie Fou Pressure & Temperature Monitoring – 4A11-2

Primrose East: 4A11-2 Jolie Fou

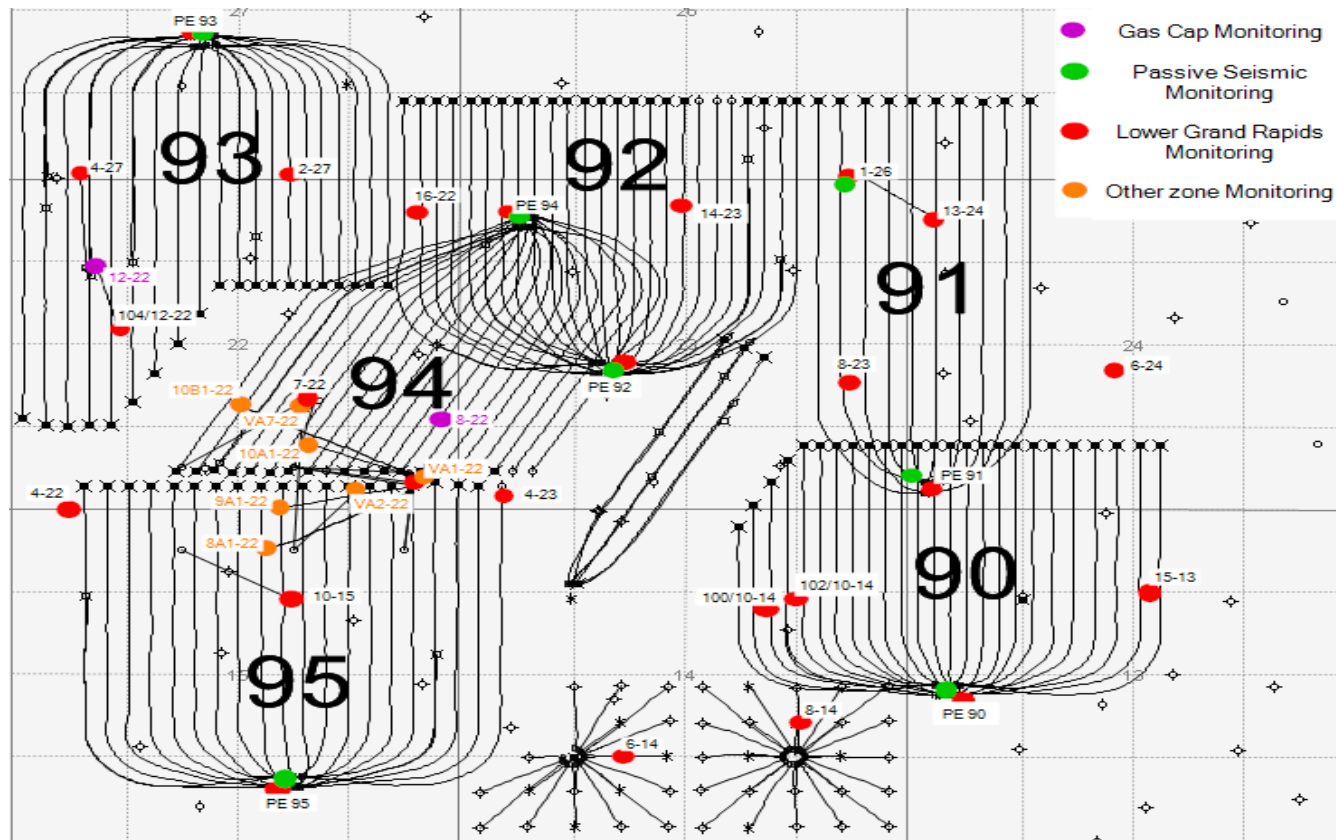


Primrose East Westgate Pressure & Temperature Monitoring – 8A74B

Primrose East: 8A74B Westgate



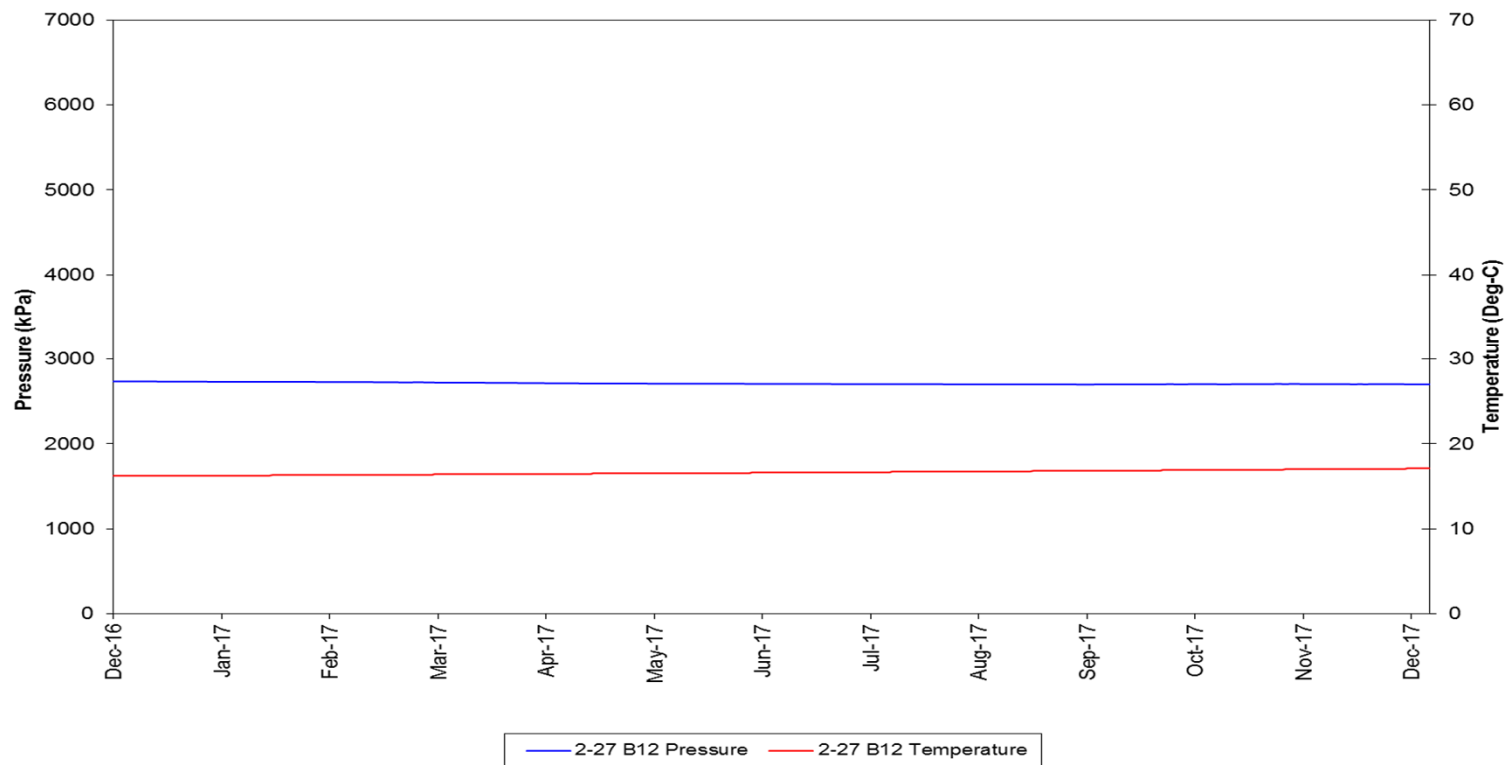
Observation Wells - Primrose East Area 2



Primrose East B12

Pressure & Temperature Monitoring – 2-27 OBS

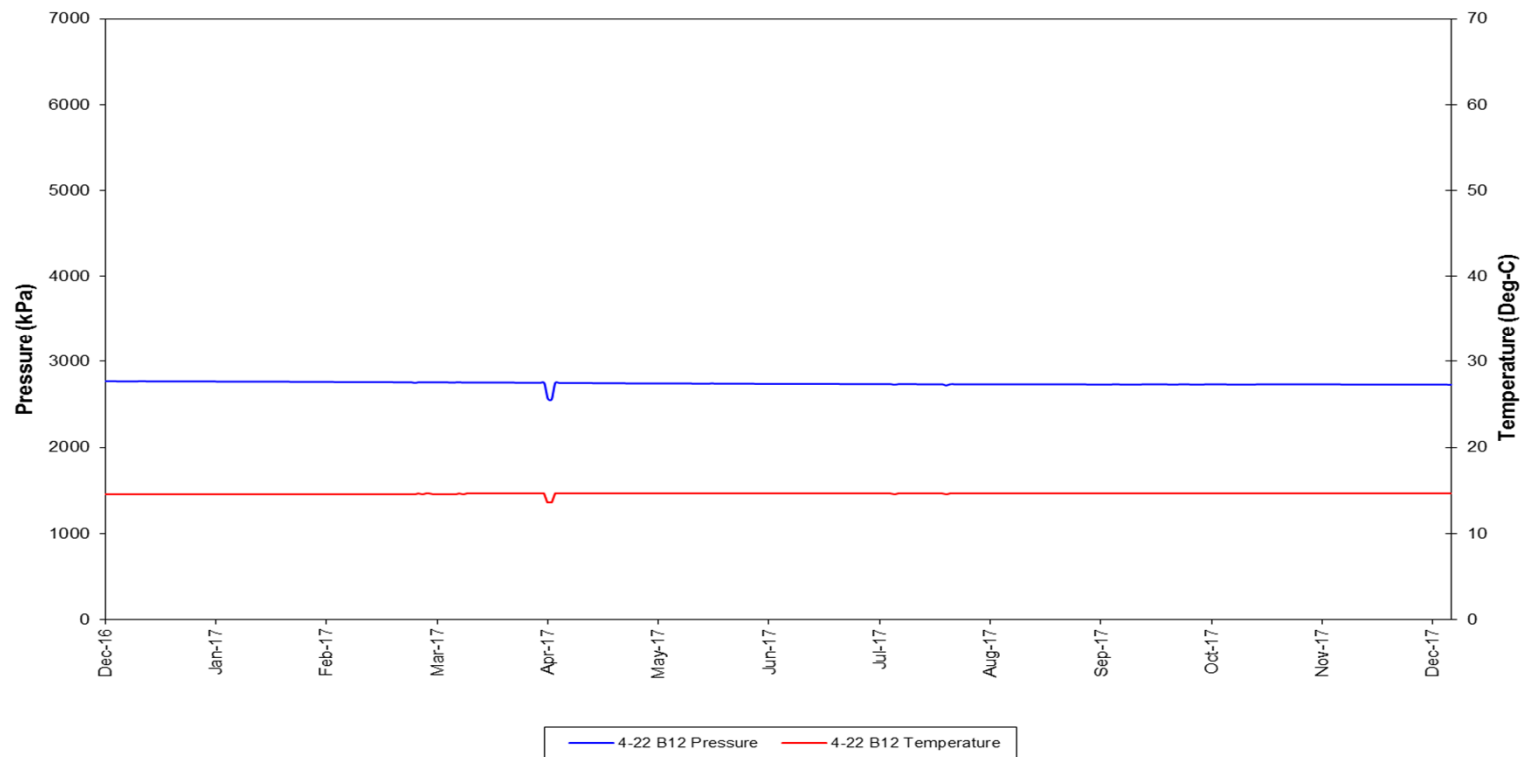
Primrose East: 2-27 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 4-22 OBS

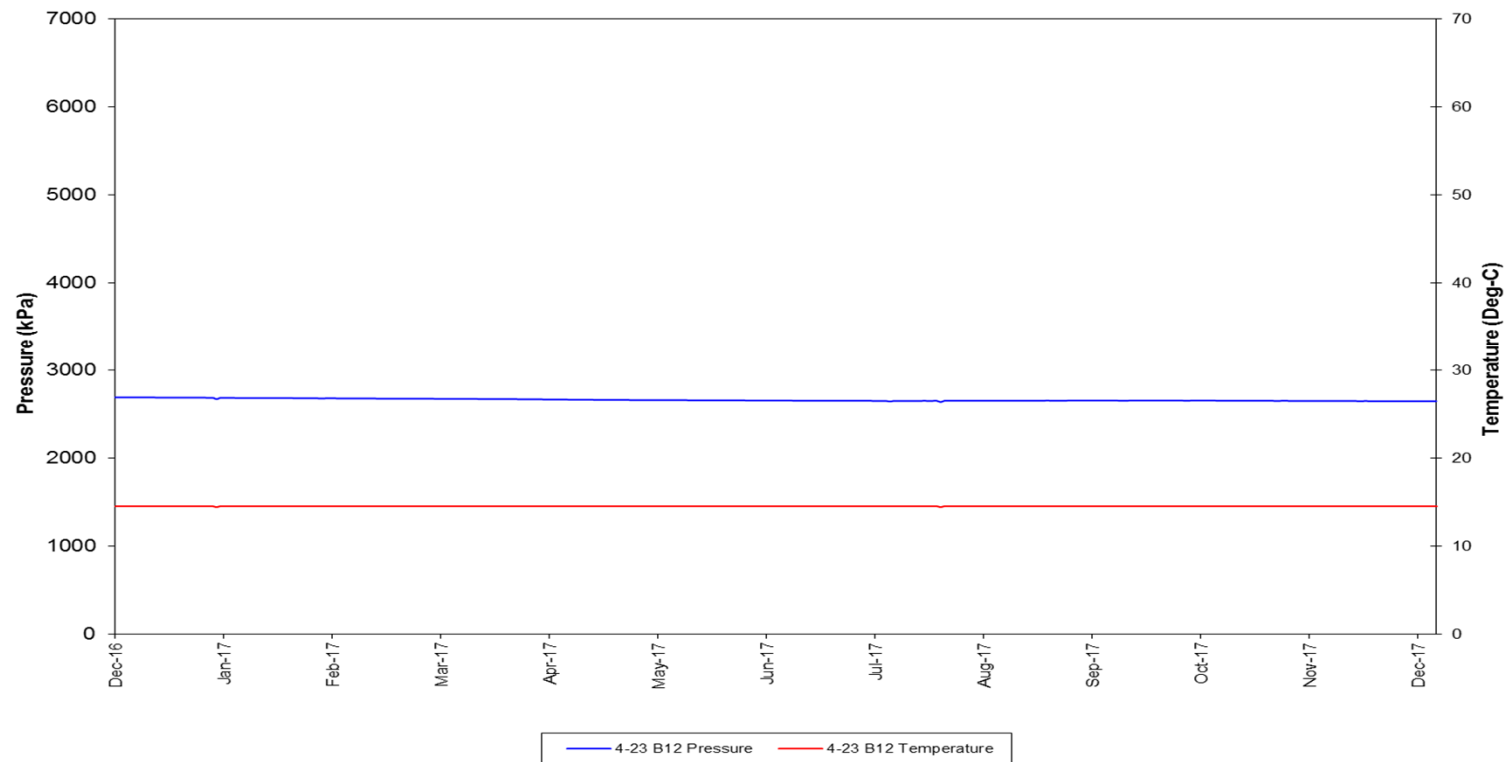
Primrose East: 4-22 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 4-23 OBS

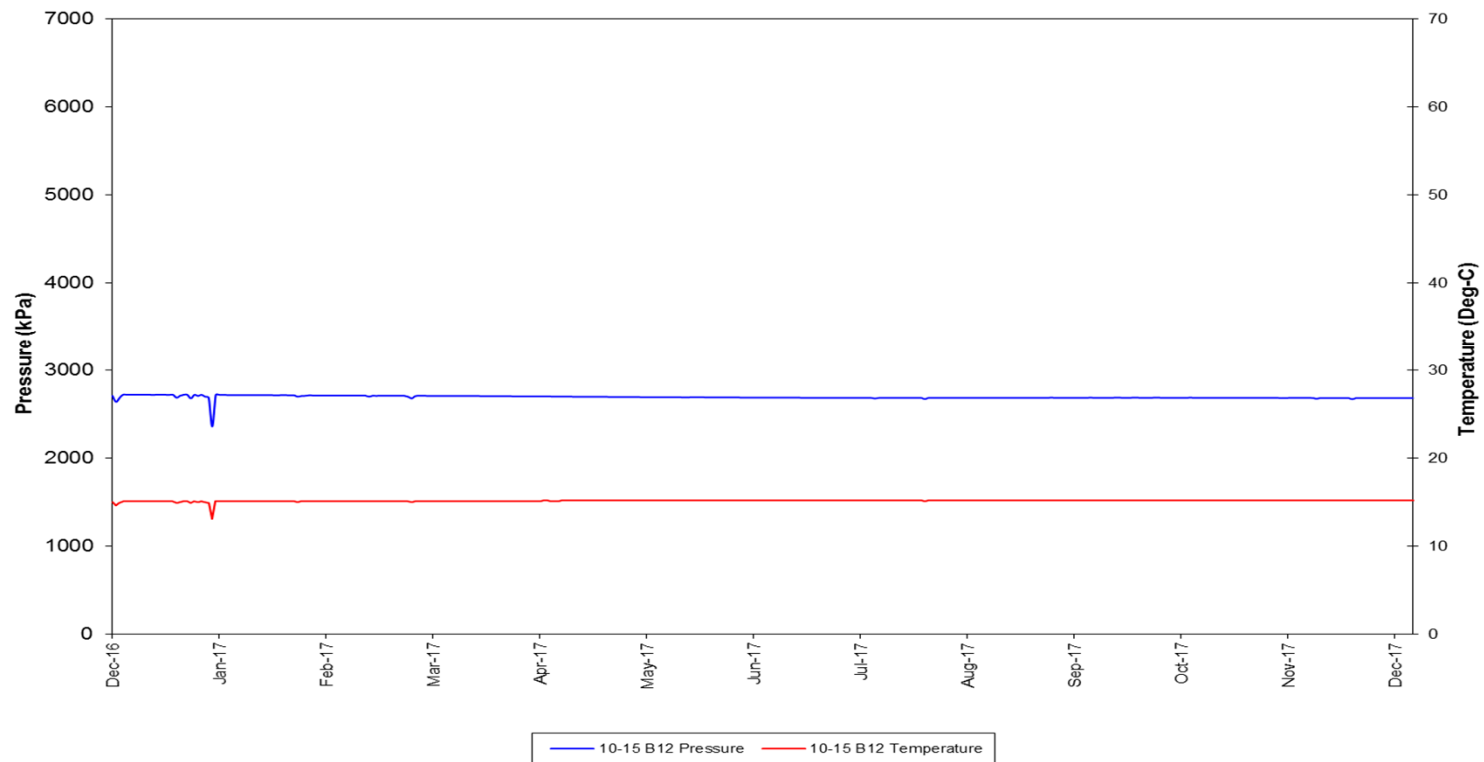
Primrose East: 4-23 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 10-15 OBS

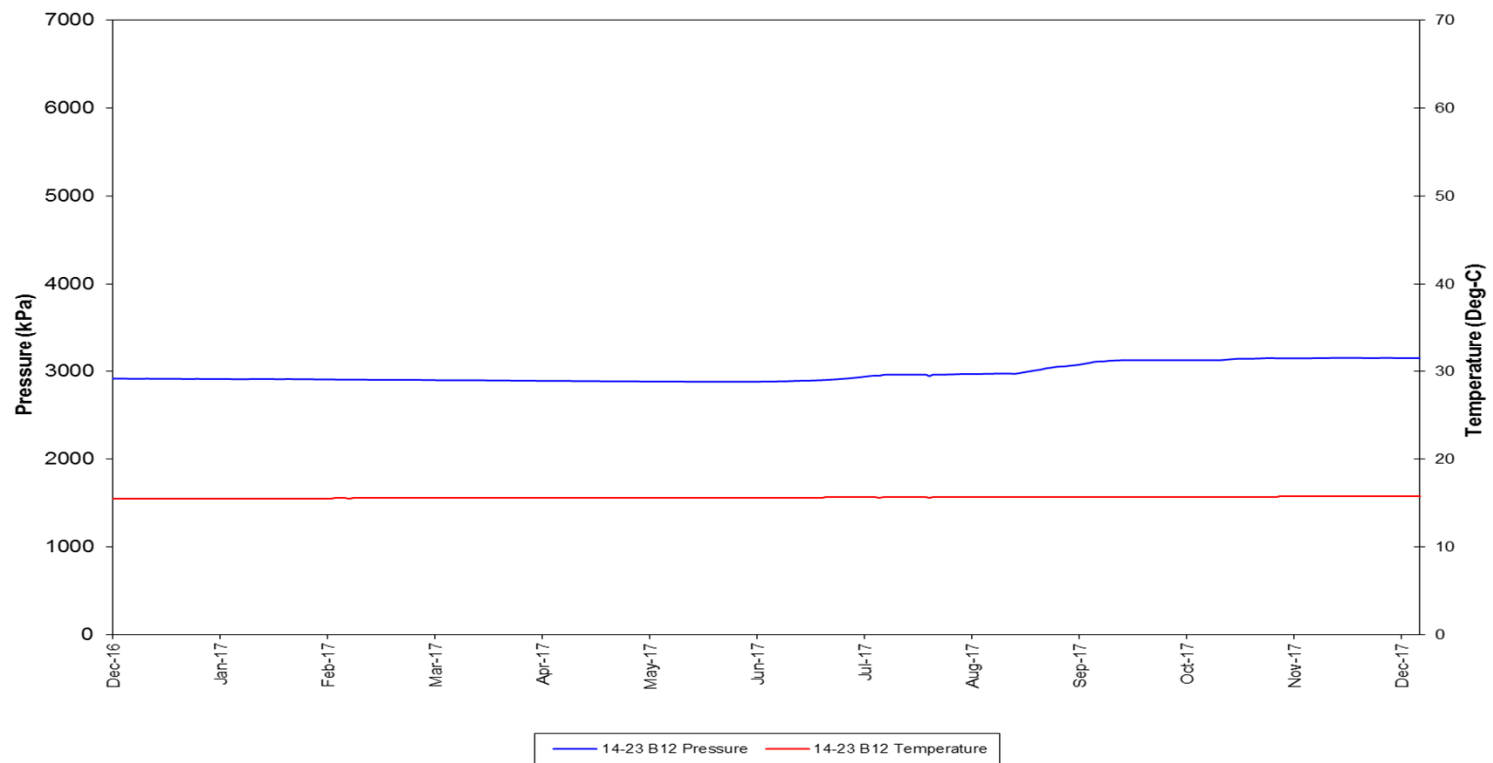
Primrose East: 10-15 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 14-23 OBS

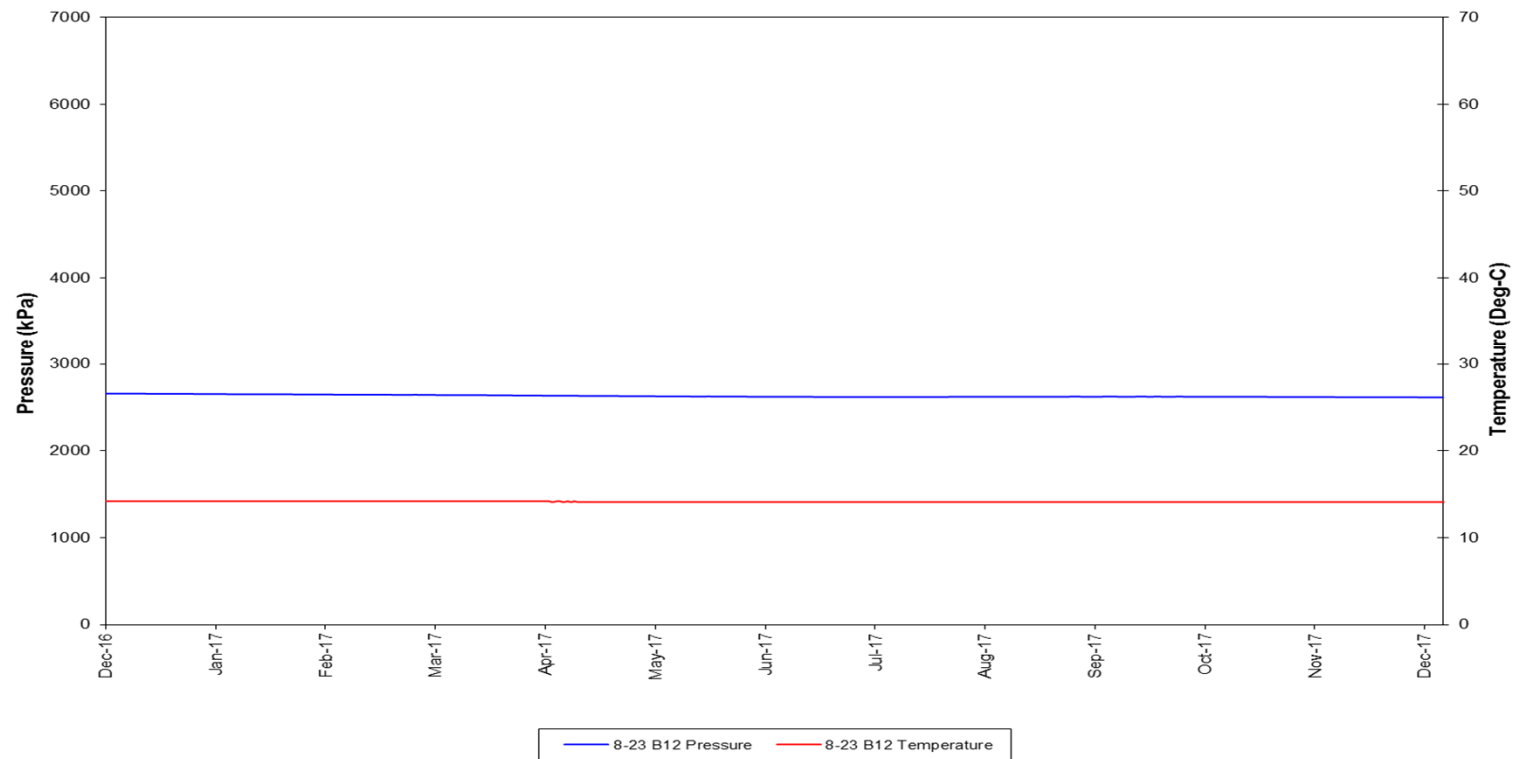
Primrose East: 14-23 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 8-23 OBS

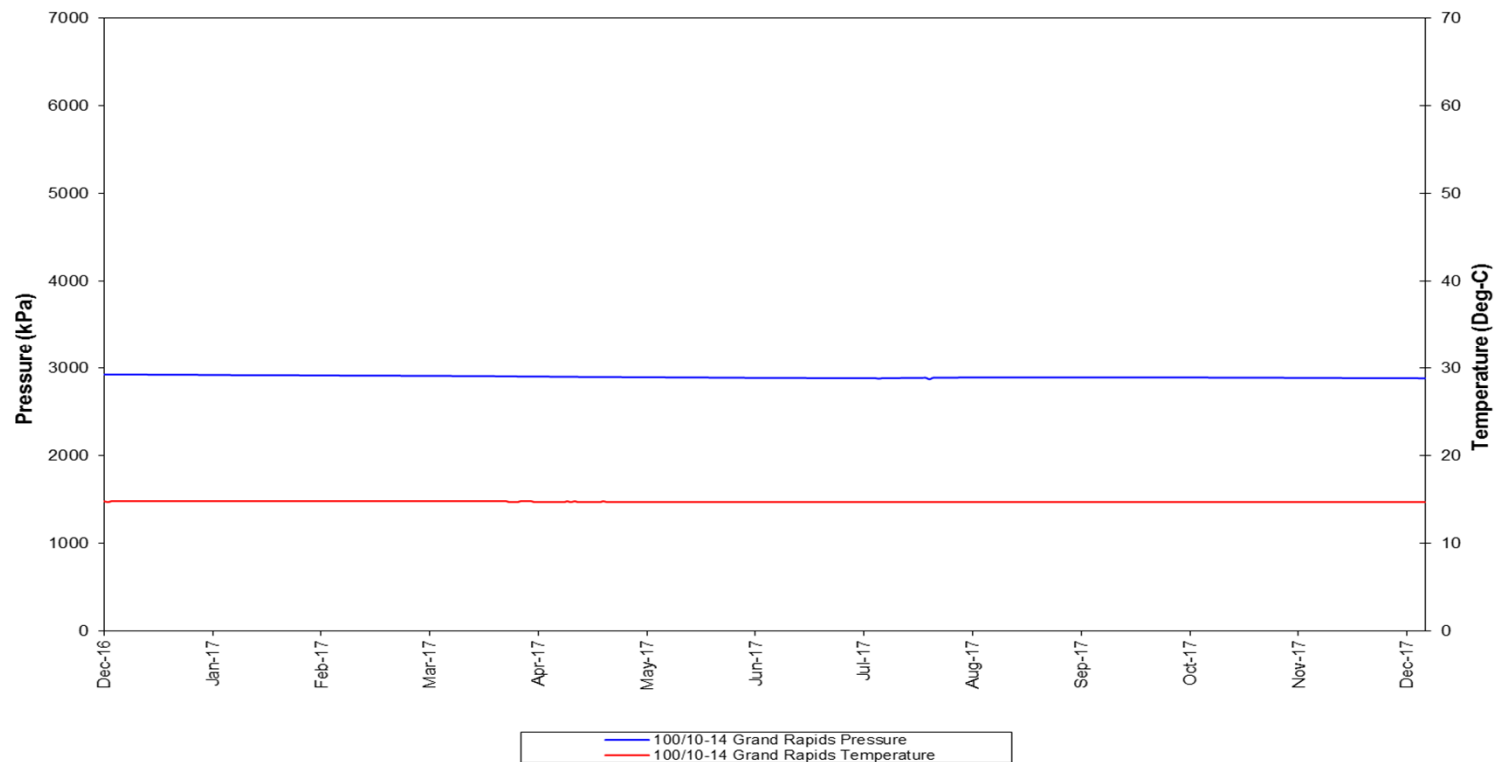
Primrose East: 8-23 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 100/10-14 OBS

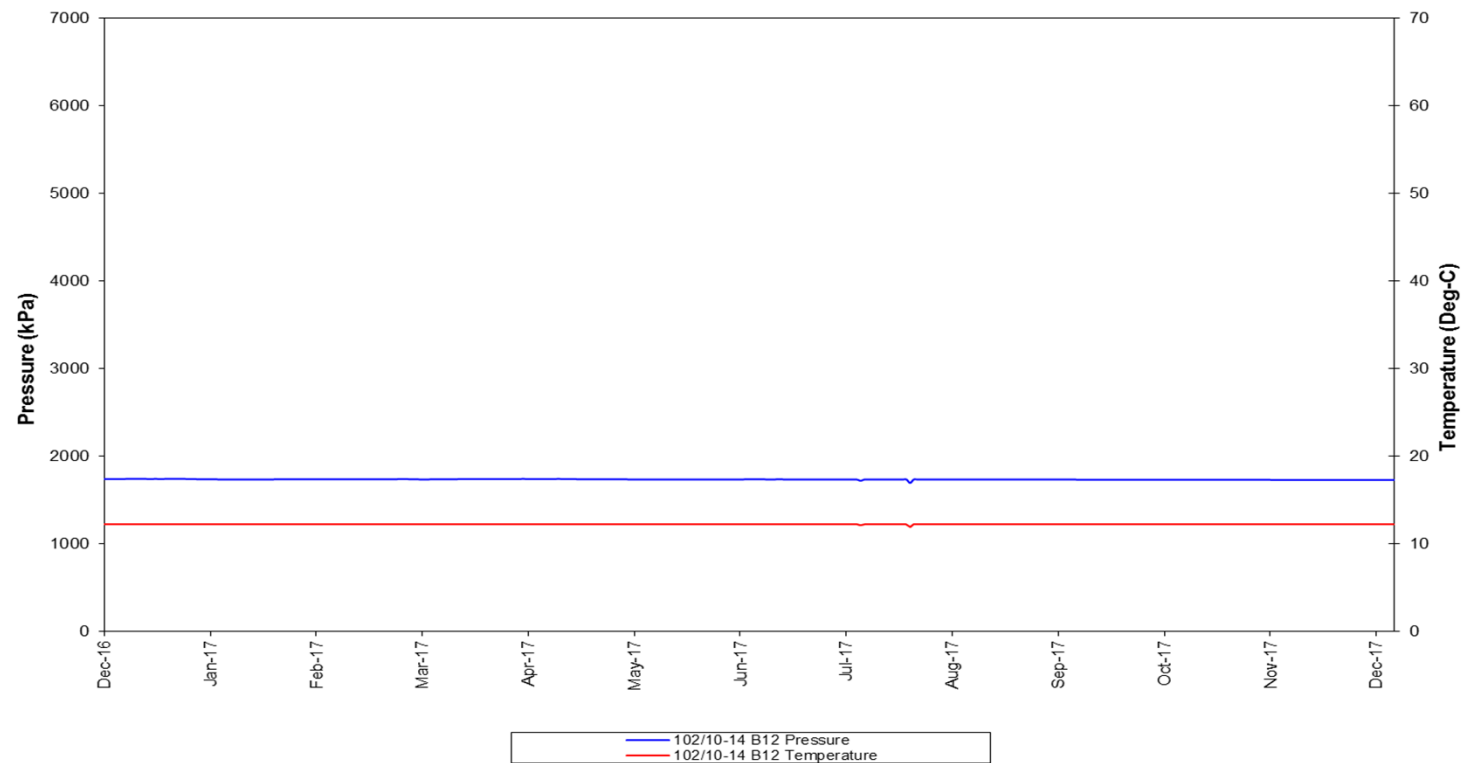
Primrose East: 100/10-14 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 102/10-14 OBS

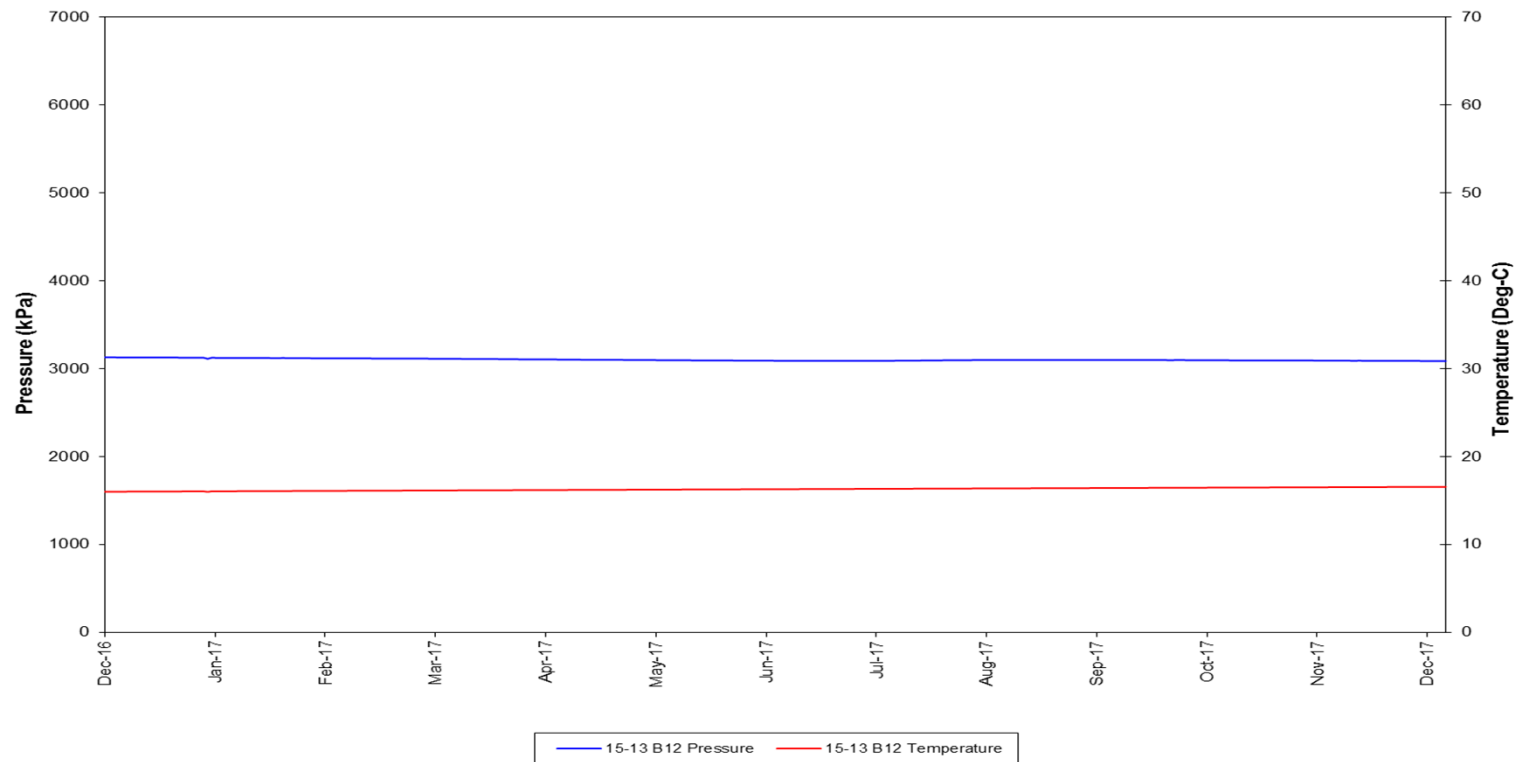
Primrose East: 102/10-14 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 15-13 OBS

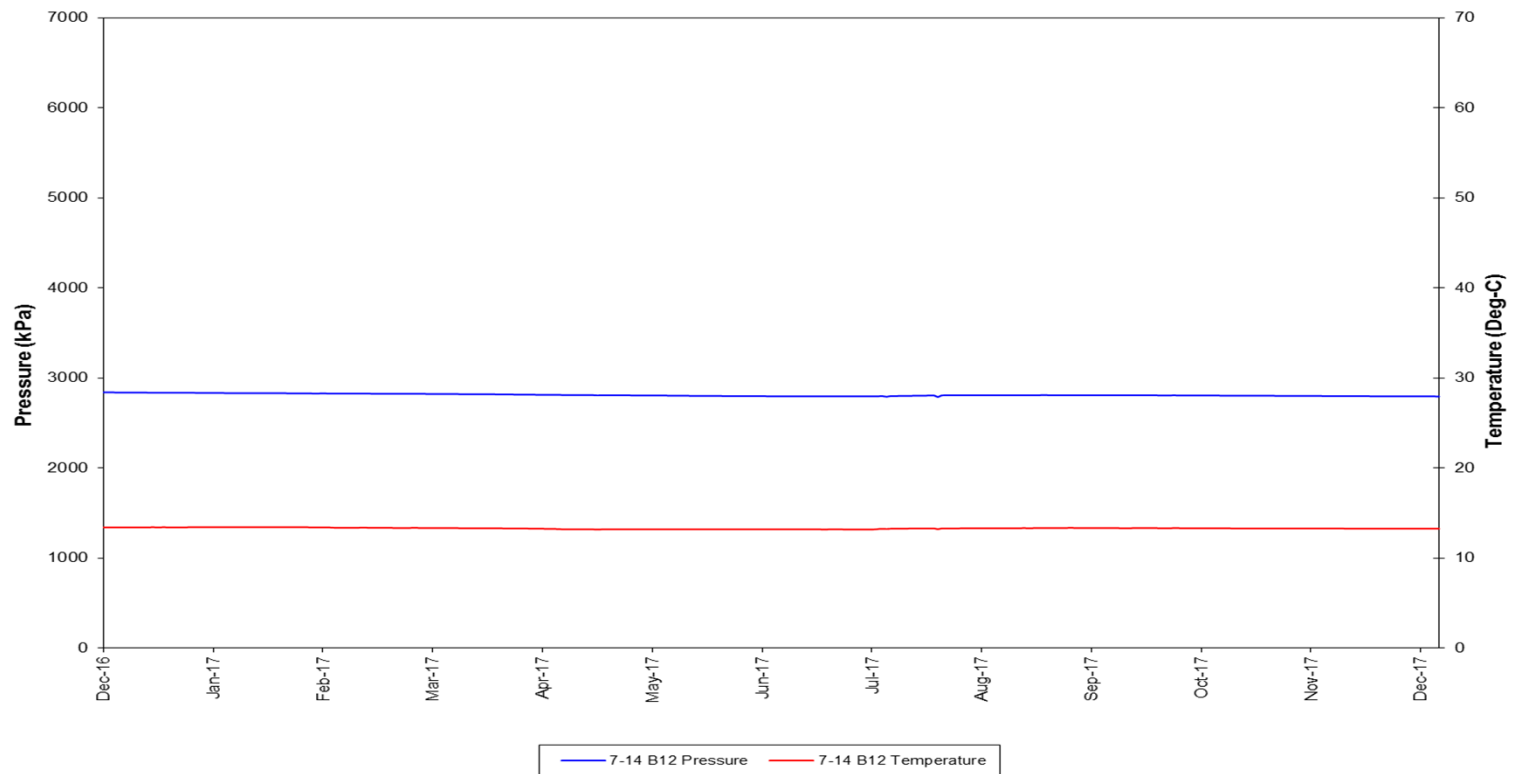
Primrose East: 15-13 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 7-14 OBS

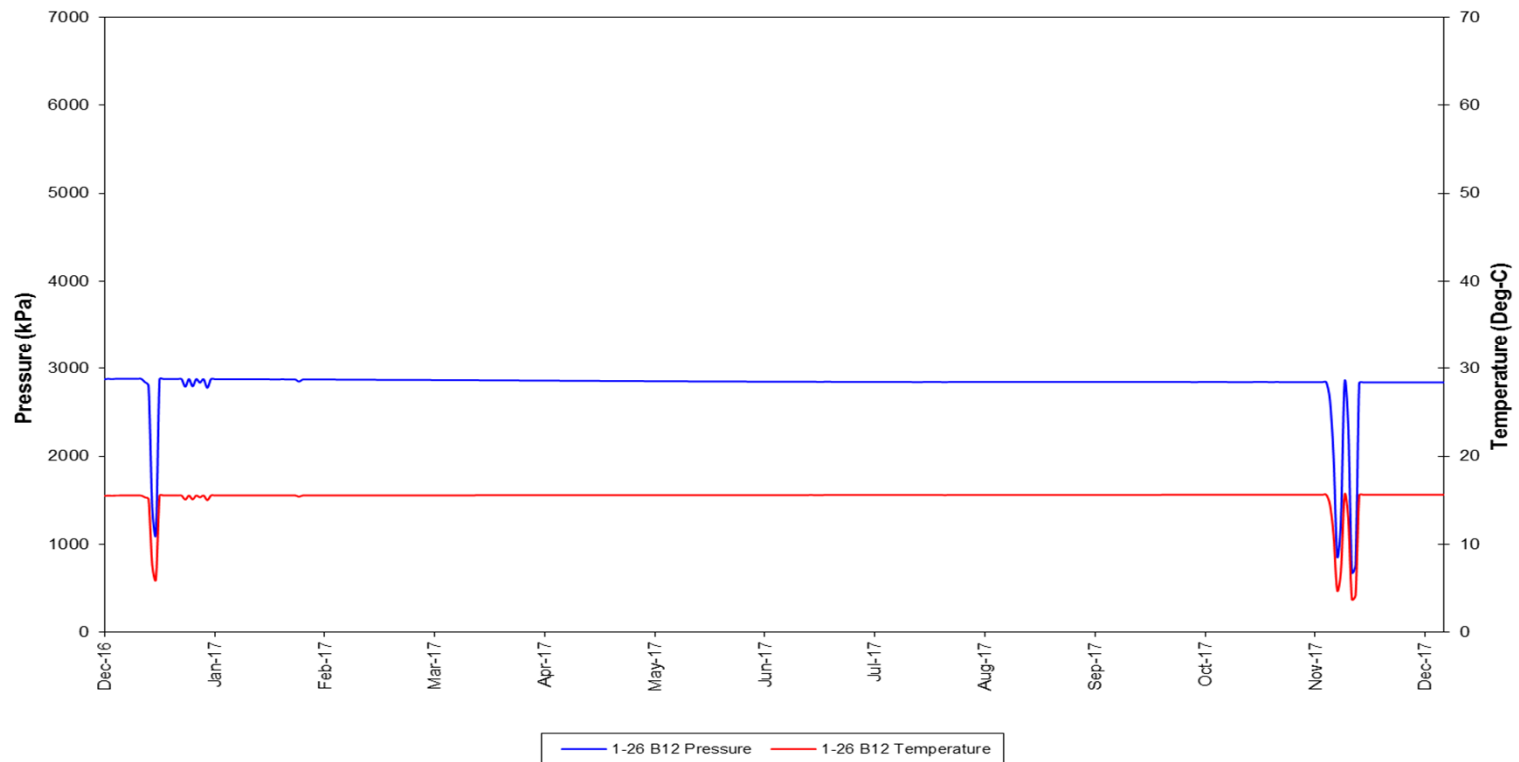
Primrose East: 7-14 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 1-26 OBS

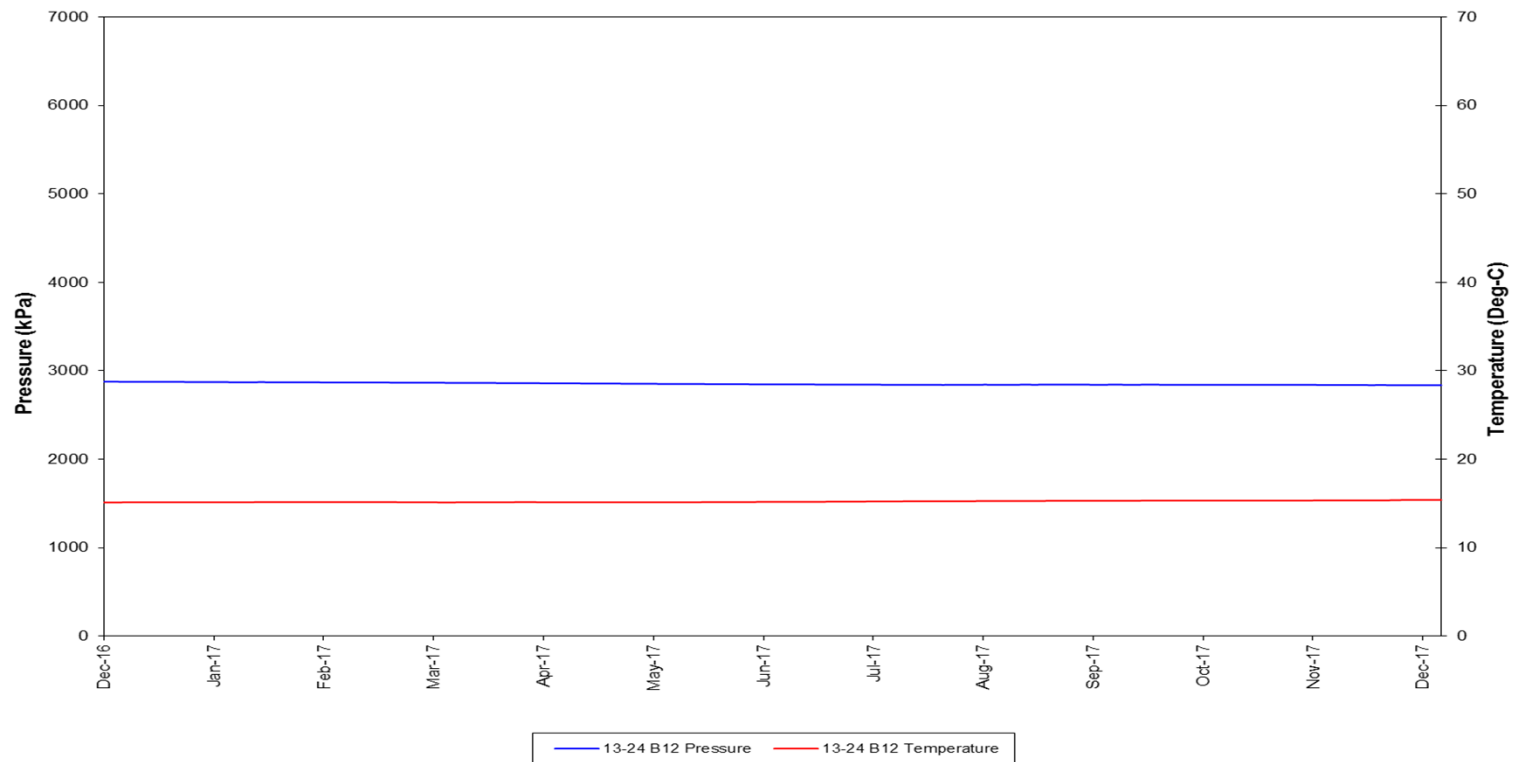
Primrose East: 1-26 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 13-24 OBS

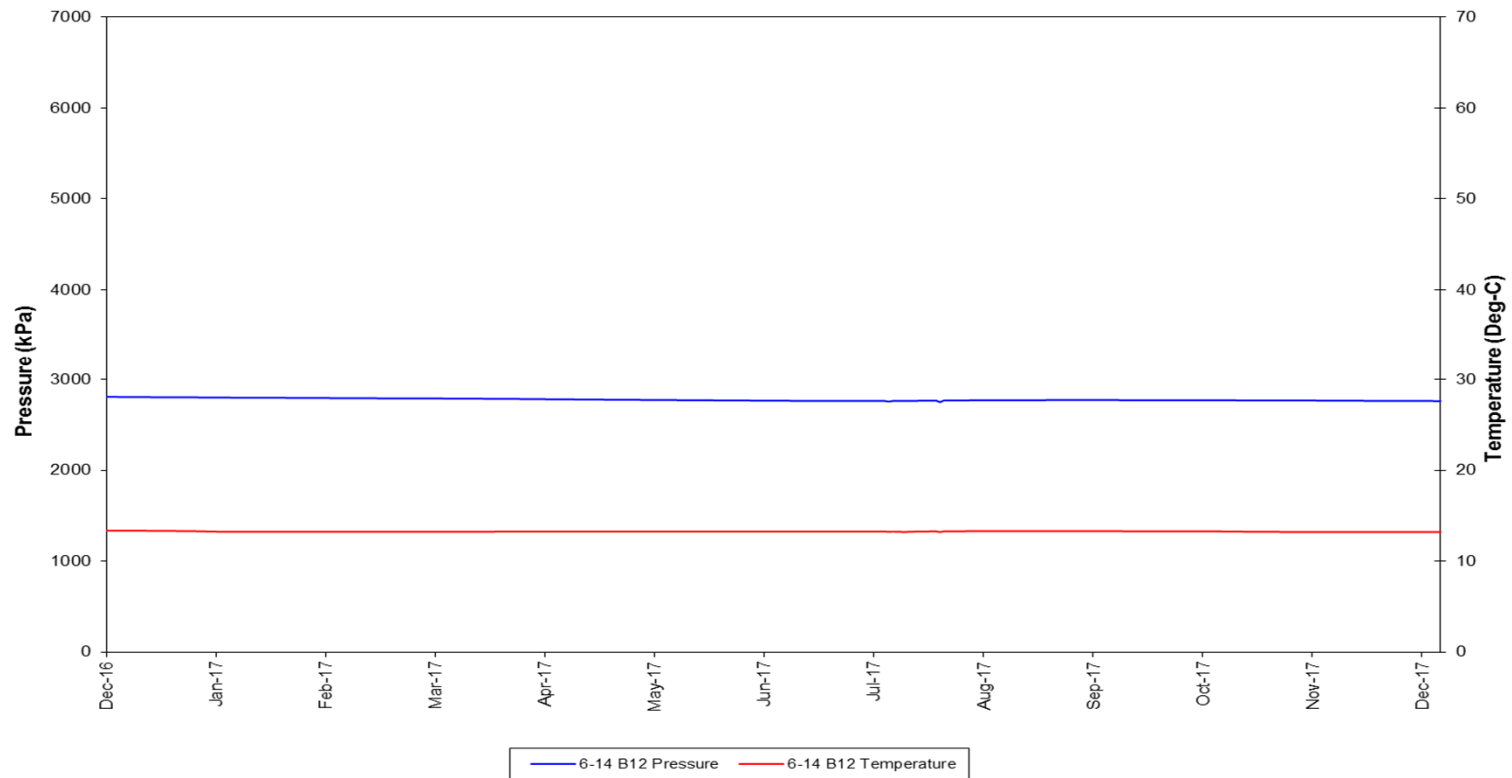
Primrose East: 13-24 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 6-14 OBS

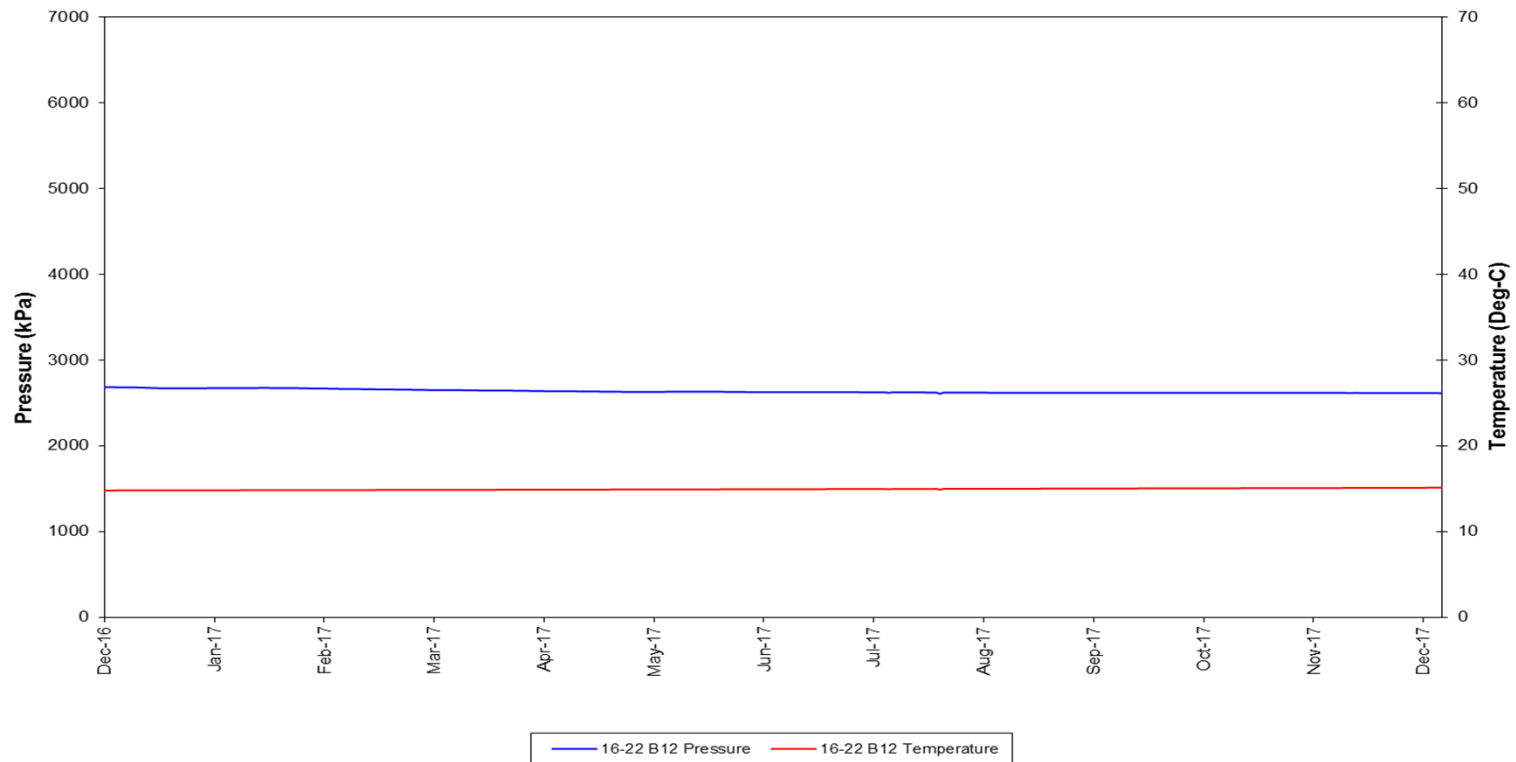
Primrose East: 6-14 B12 OBS Well



Primrose East B12

Pressure & Temperature Monitoring – 16-22 OBS

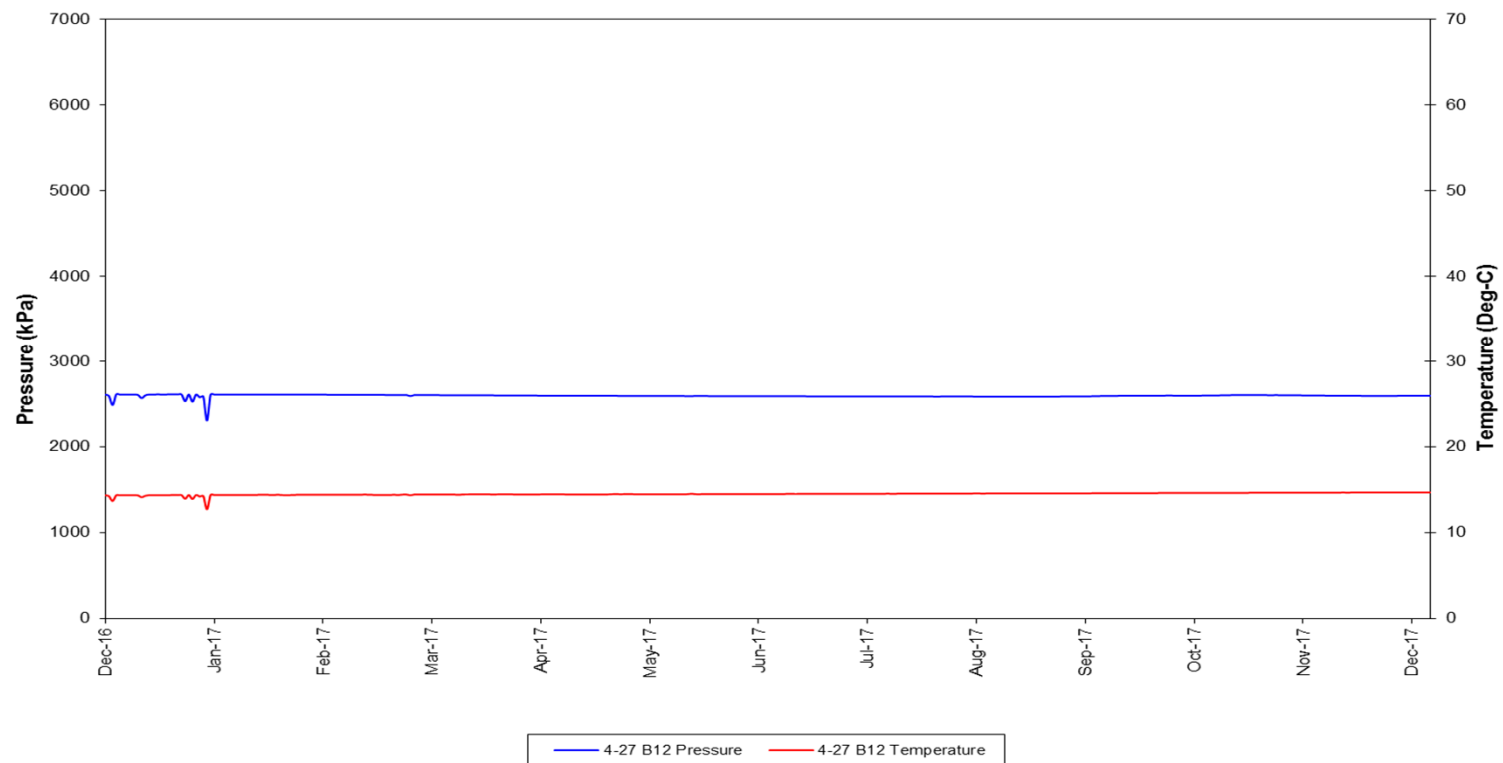
Primrose East: 16-22 B12 OBS Well



Primrose East B12

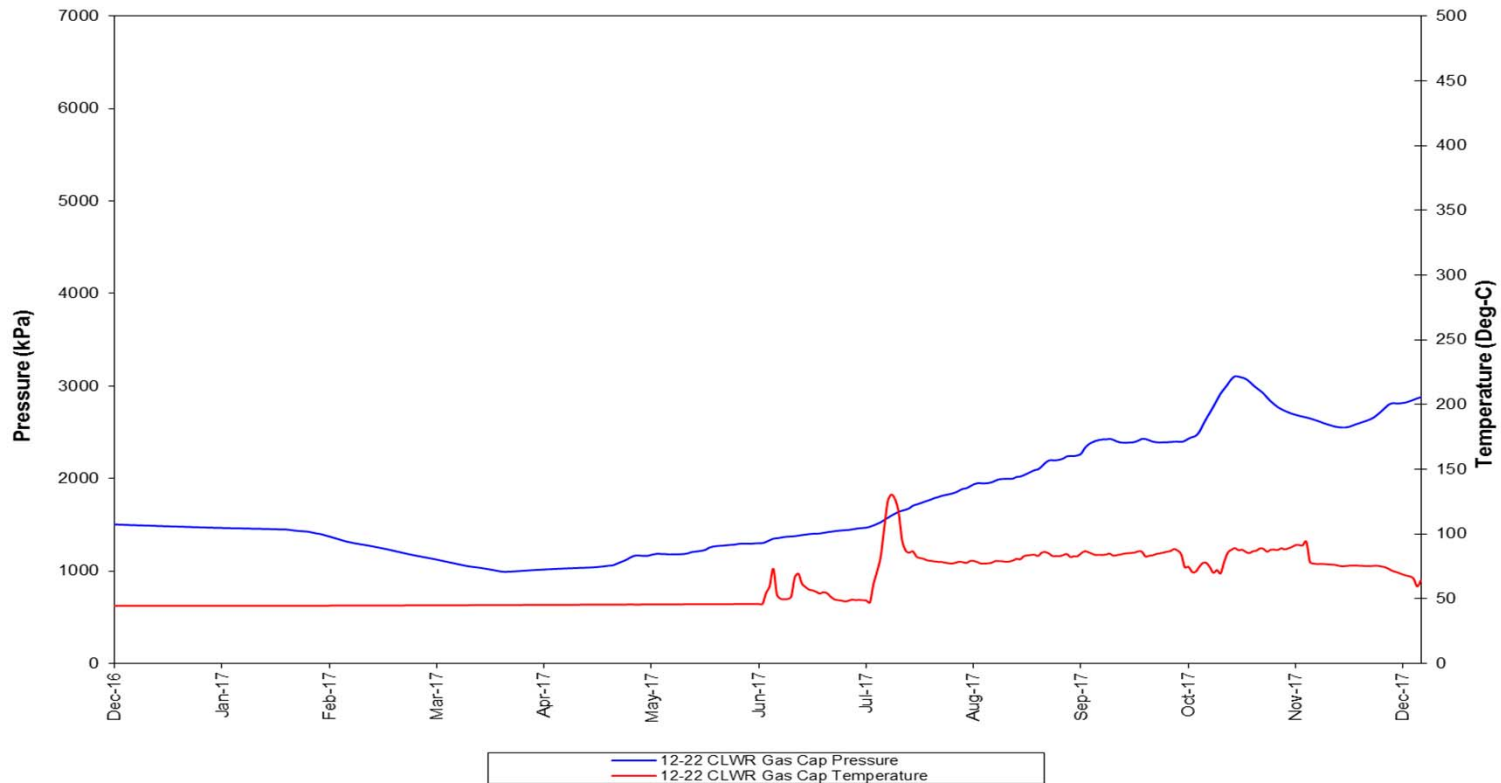
Pressure & Temperature Monitoring – 4-27 OBS

Primrose East: 4-27 B12 OBS Well



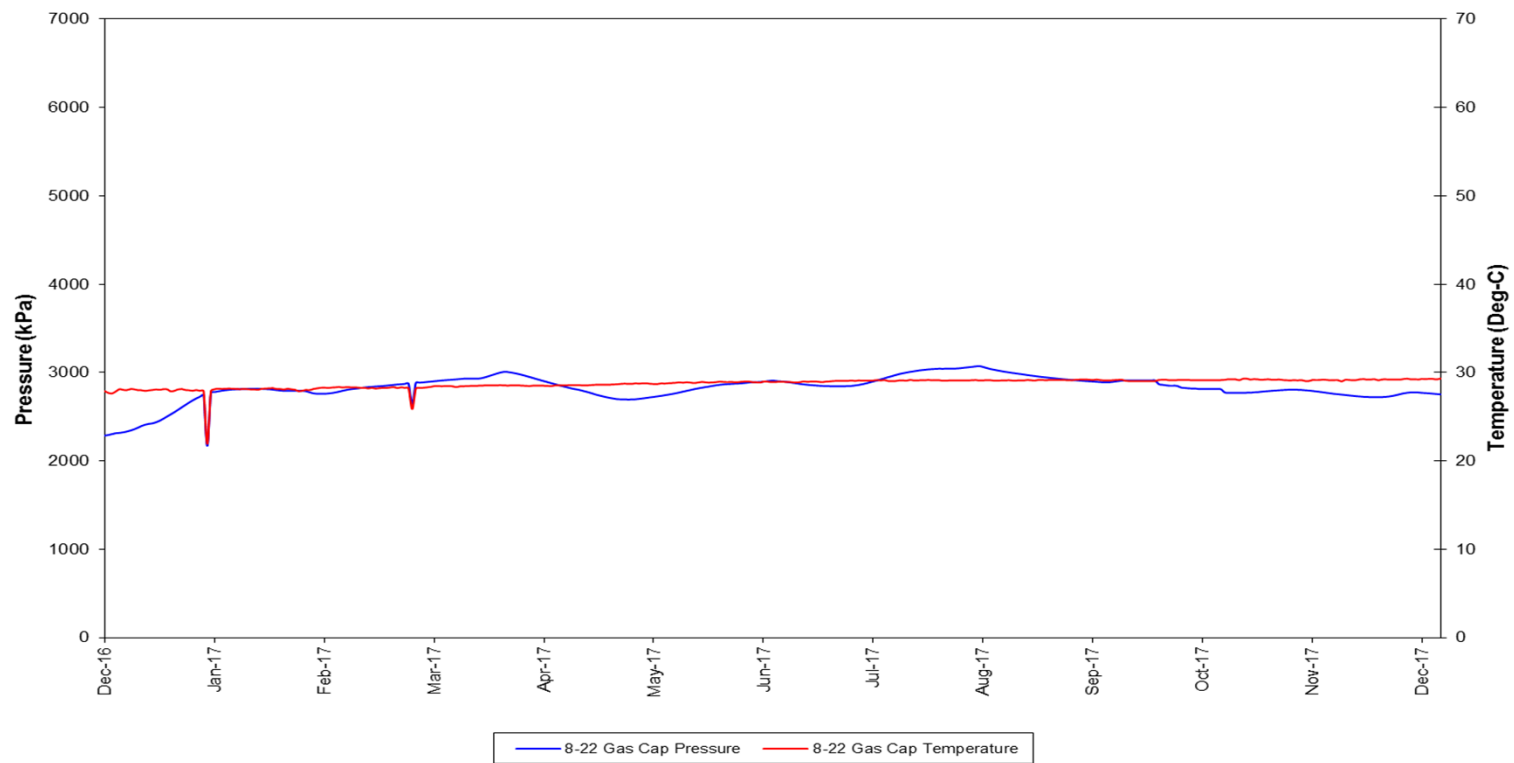
Primrose East Gas Cap Pressure & Temperature Monitoring – 12-22 OBS

Primrose East: 12-22 Gas Cap OBS Well



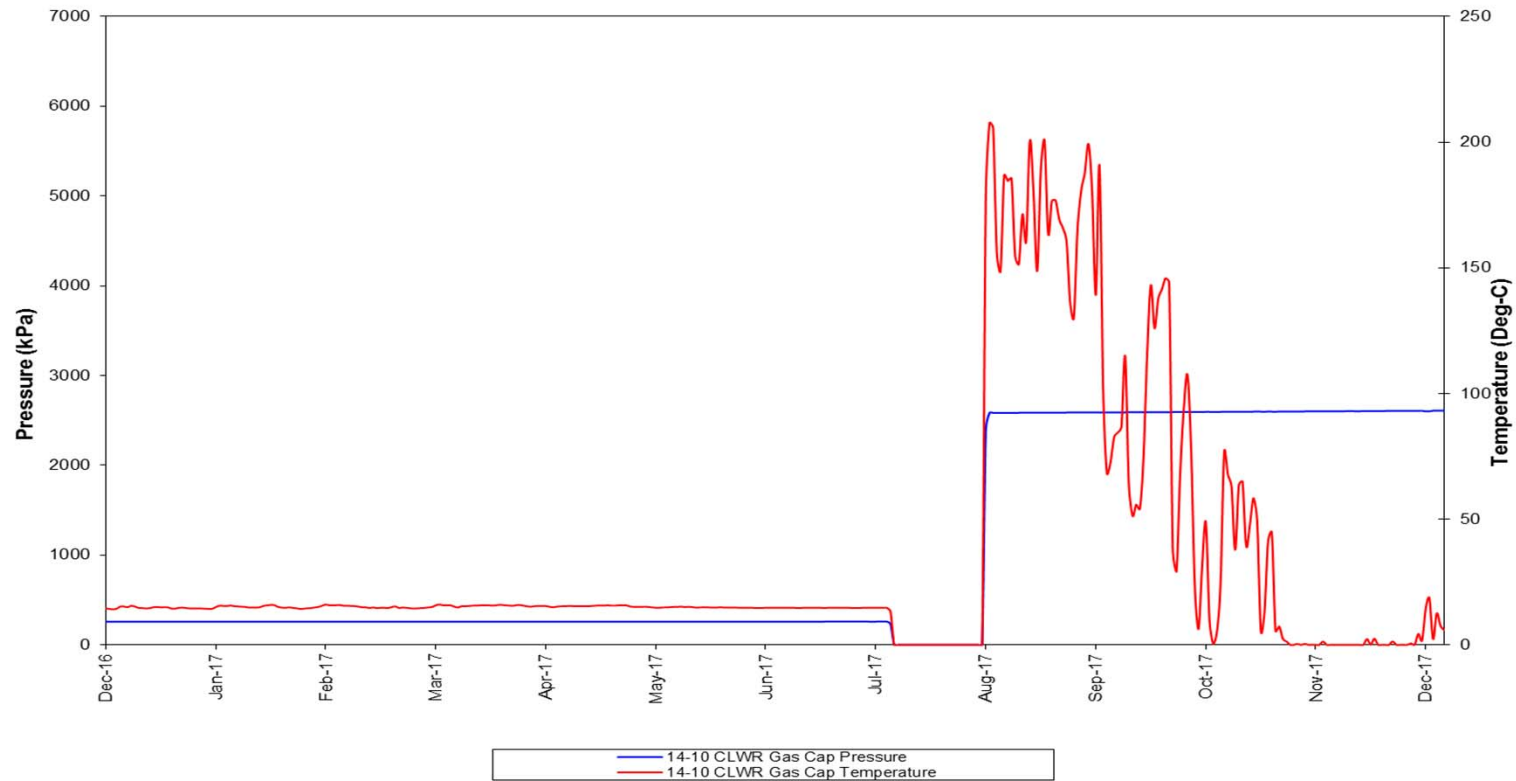
Primrose East Gas Cap Pressure & Temperature Monitoring – 8-22 OBS

Primrose East: 8-22 Gas Cap OBS Well



Primrose East Gas Cap Pressure & Temperature Monitoring – 14-10 OBS

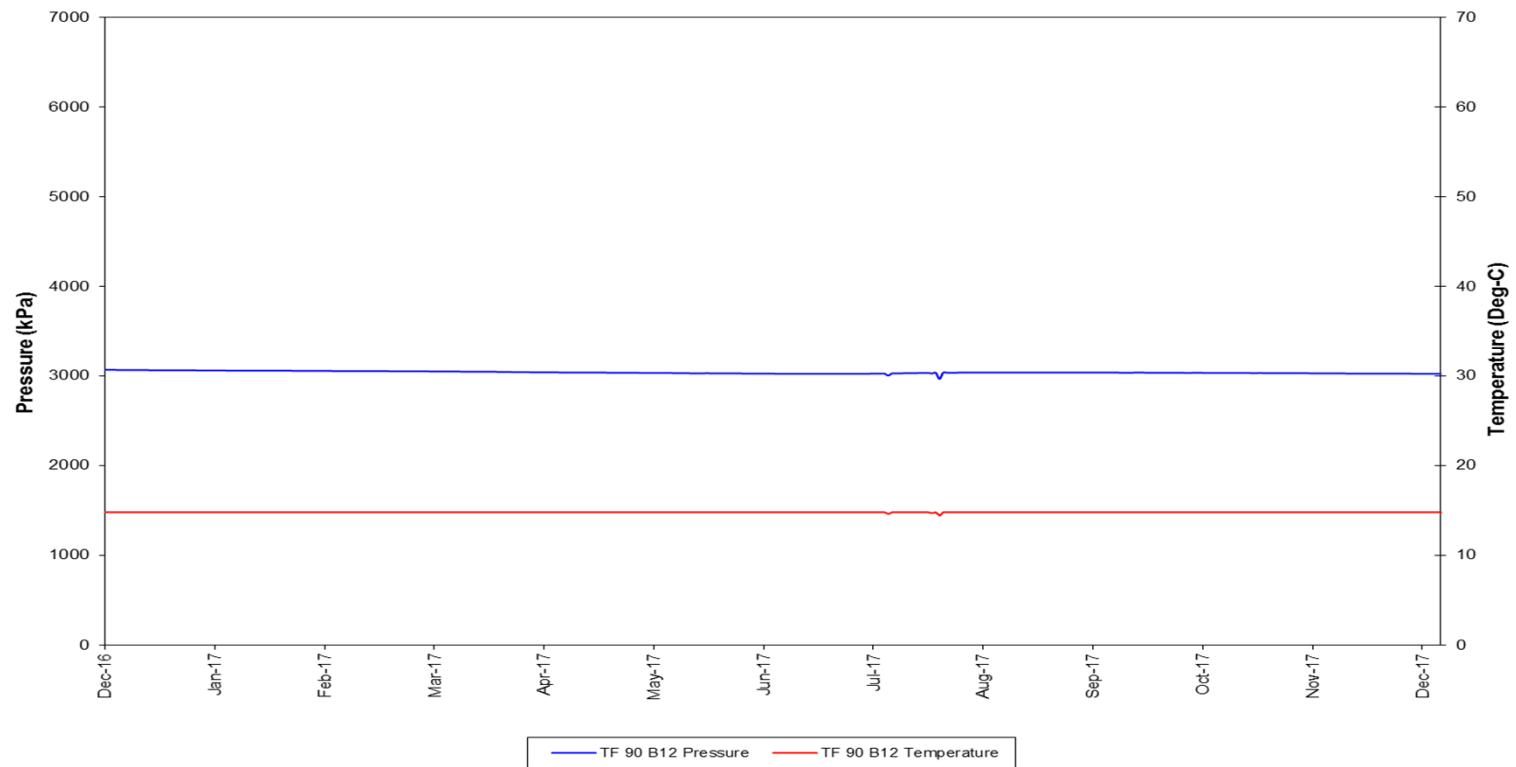
Primrose East: 14-10 Gas Cap OBS Well



Primrose East B12

Pressure & Temperature Monitoring – TF 90

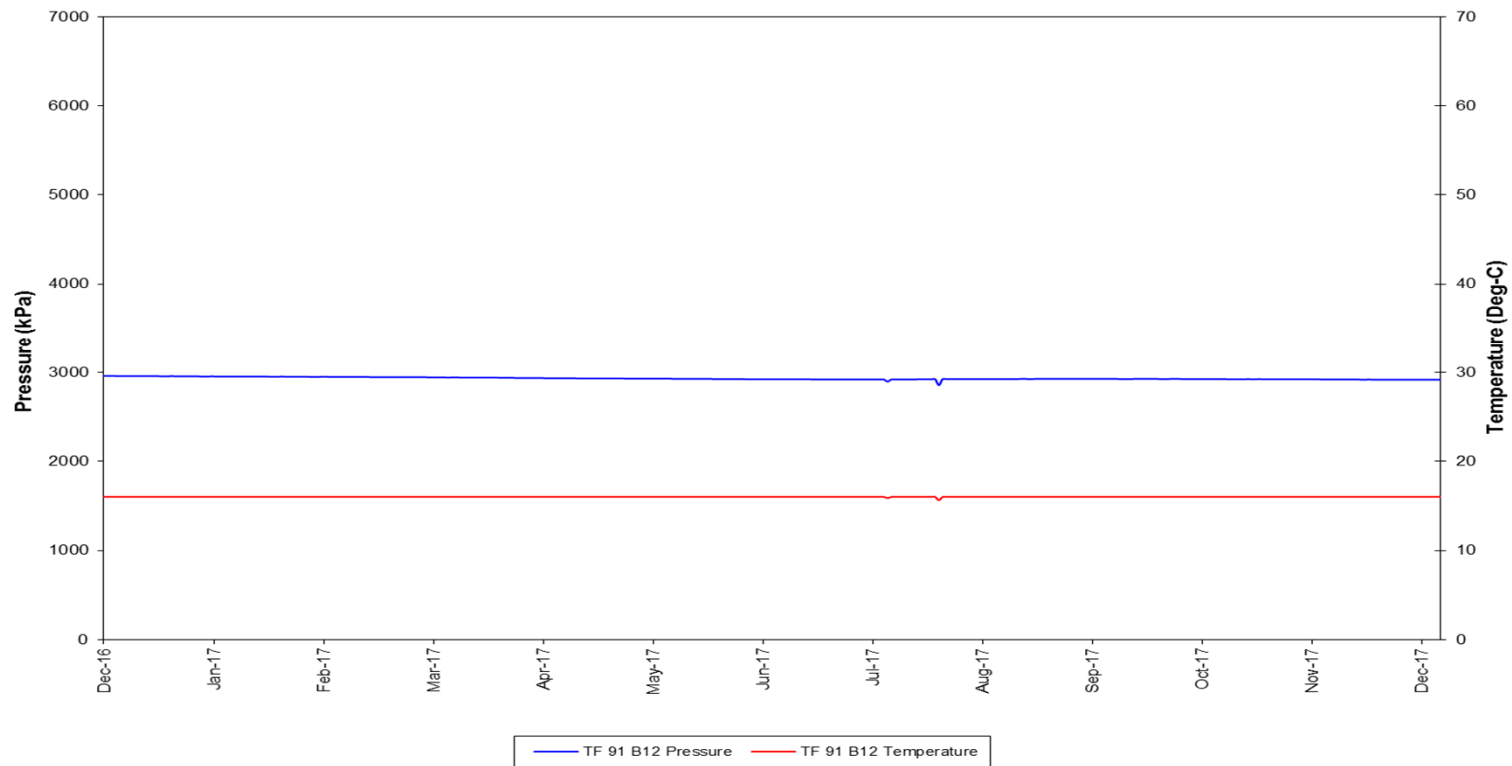
Primrose East: TF 90 B12 Monitoring



Primrose East B12

Pressure & Temperature Monitoring – TF 91

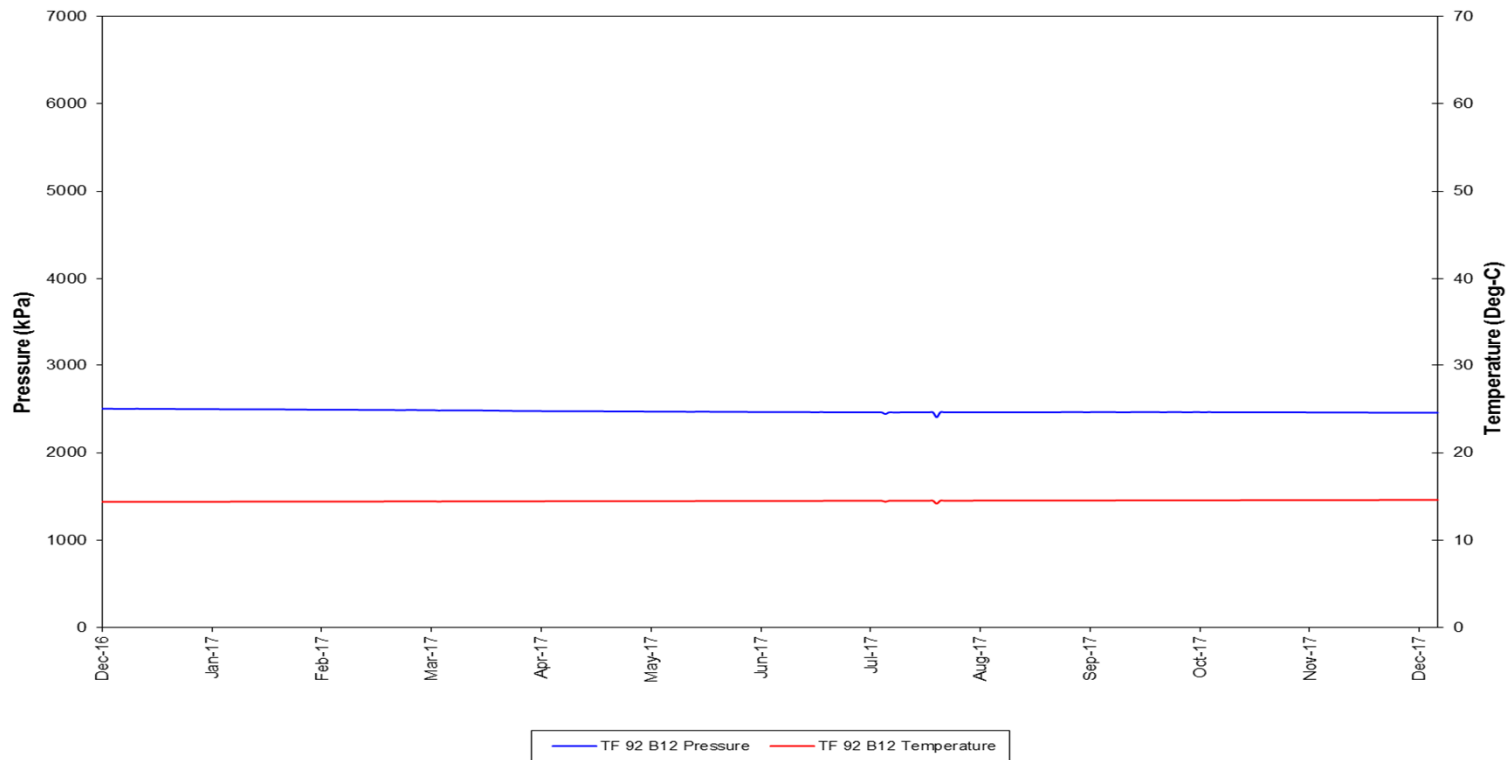
Primrose East: TF 91 B12 Monitoring



Primrose East B12

Pressure & Temperature Monitoring – TF 92

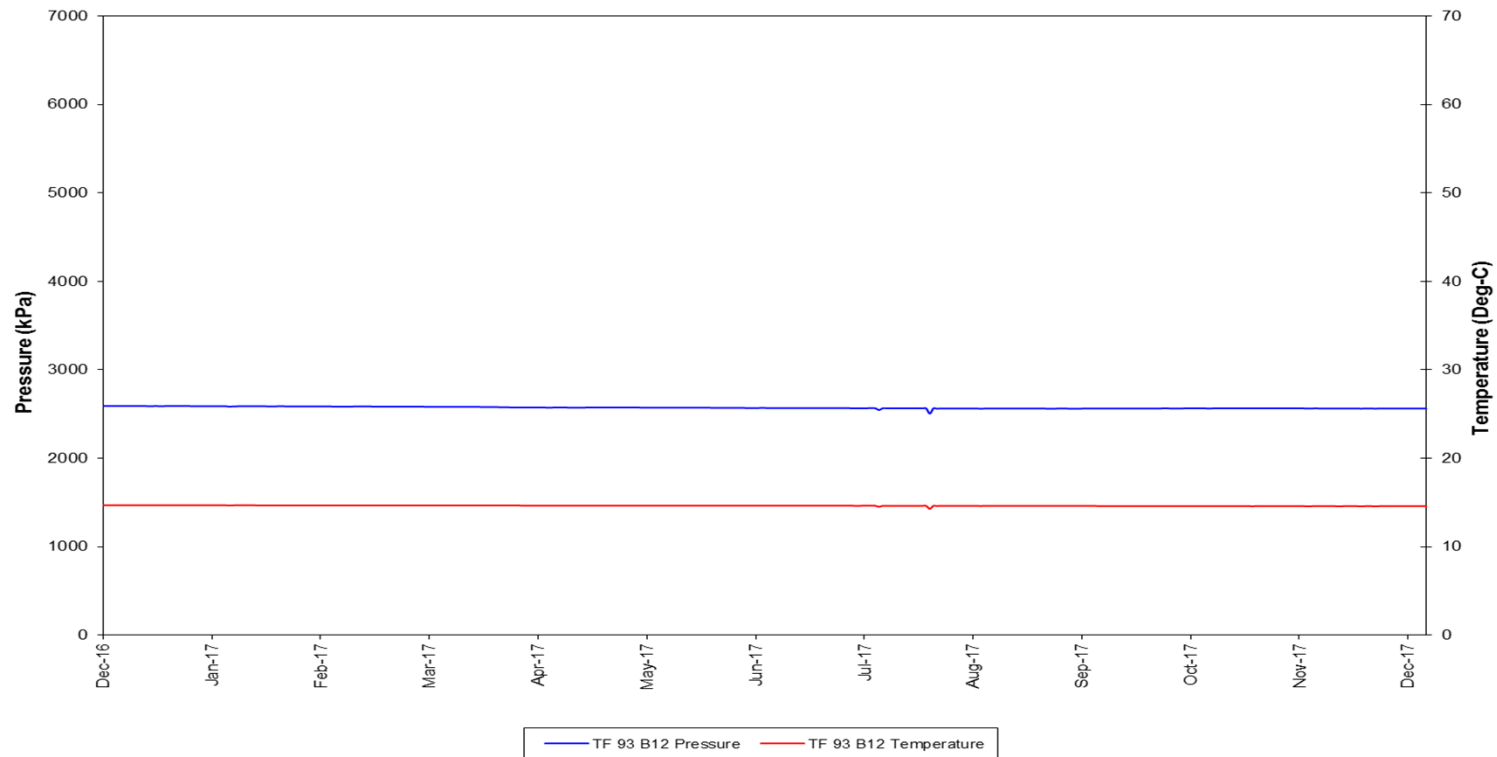
Primrose East: TF 92 B12 Monitoring



Primrose East B12

Pressure & Temperature Monitoring – TF 93

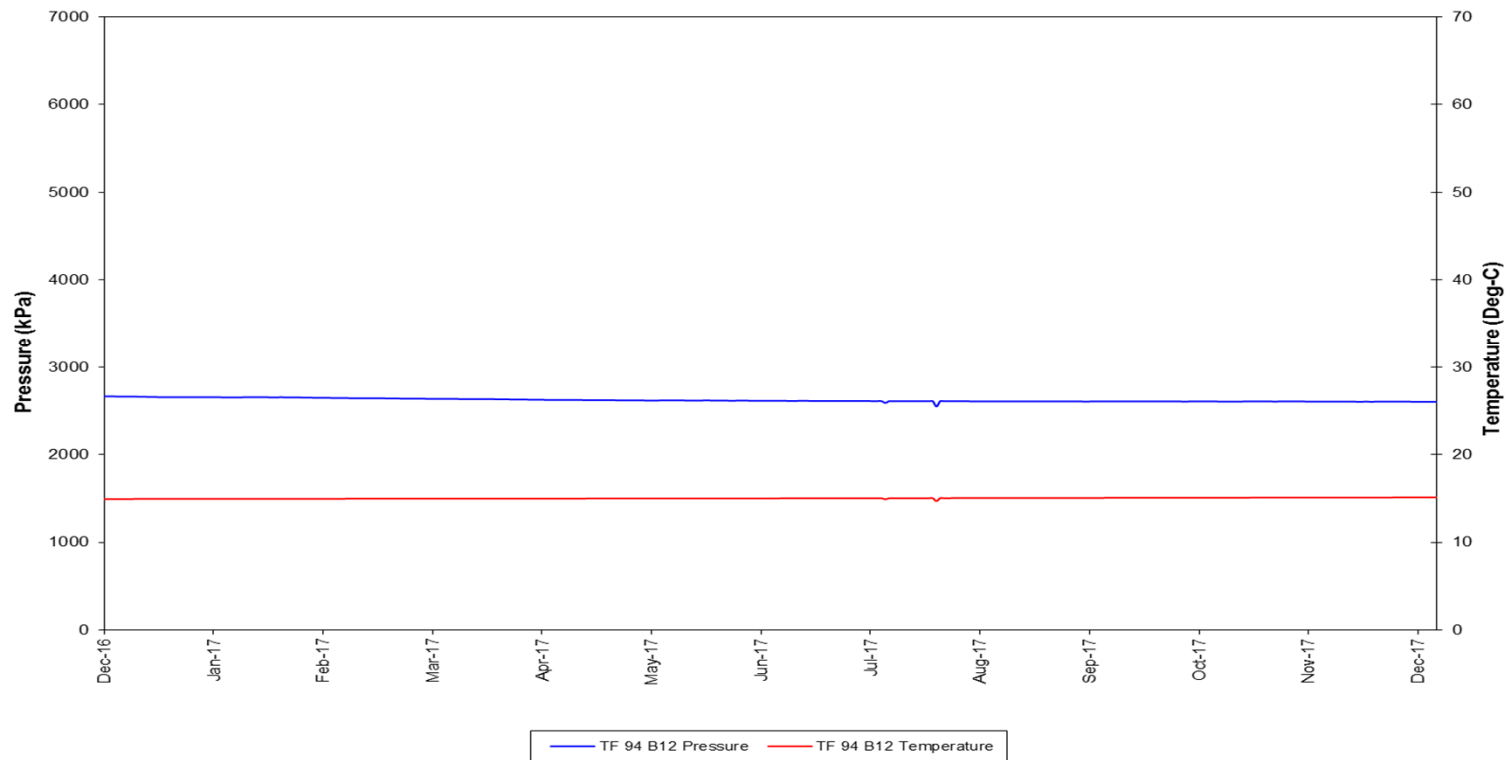
Primrose East: TF 93 B12 Monitoring



Primrose East B12

Pressure & Temperature Monitoring – TF 94

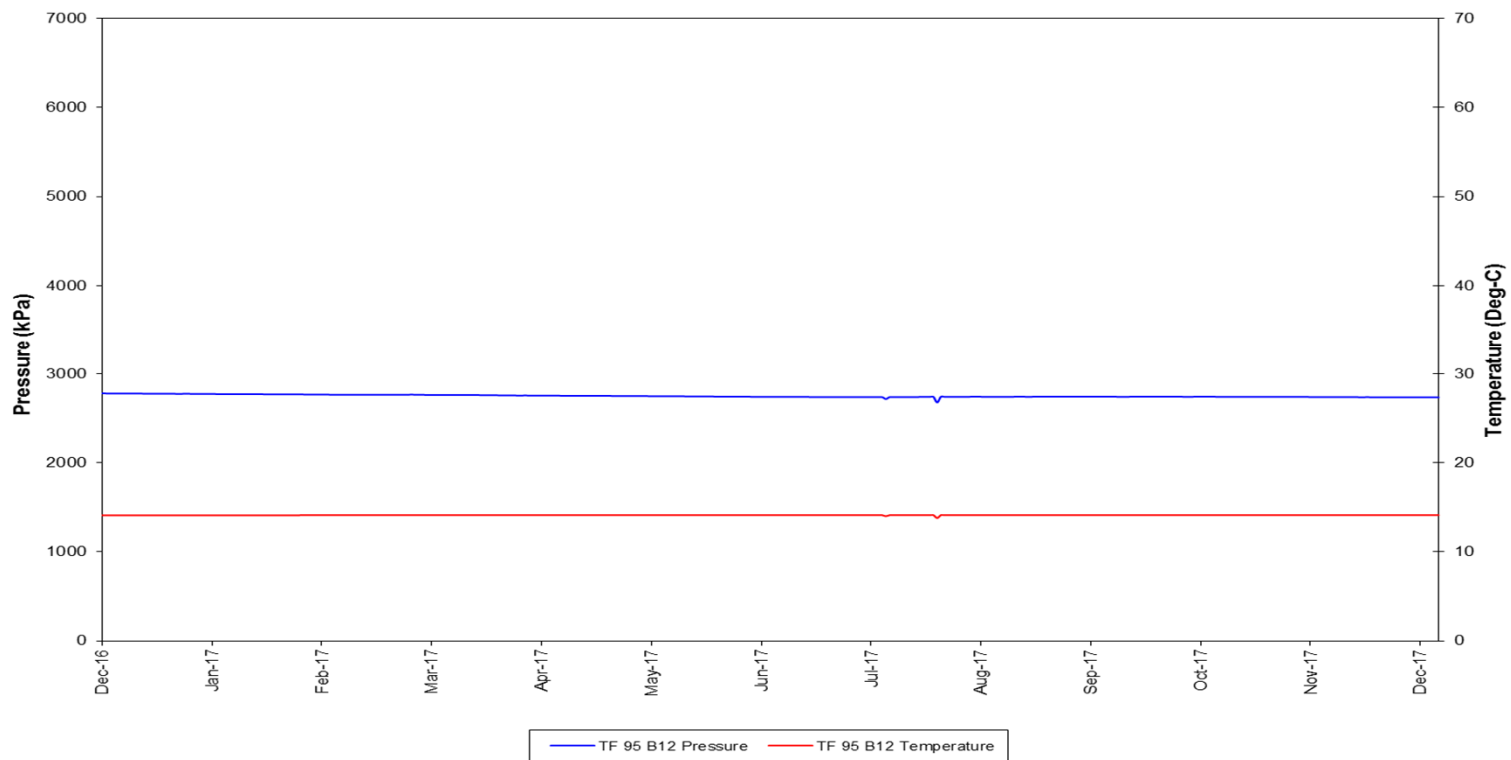
Primrose East: TF 94 B12 Monitoring



Primrose East B12

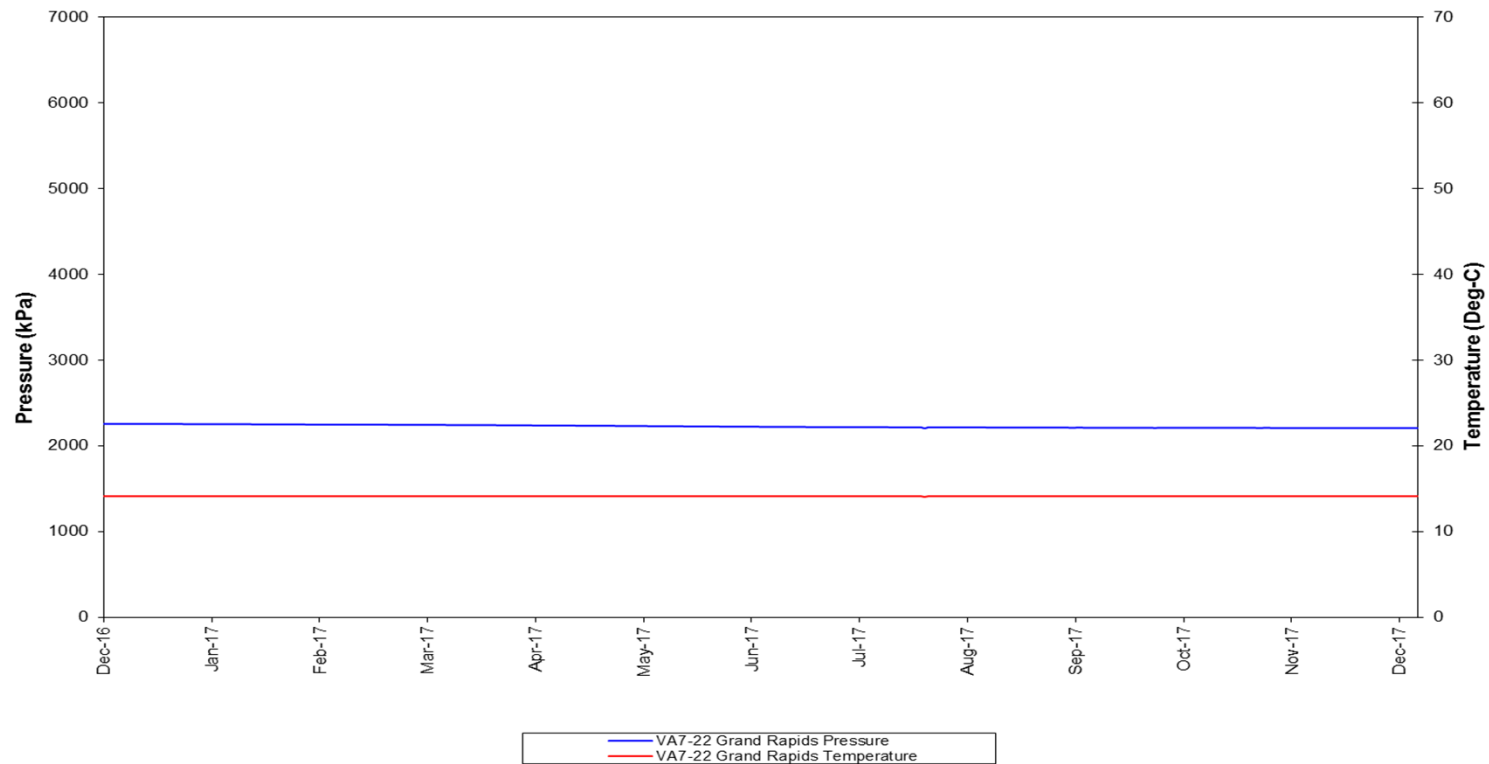
Pressure & Temperature Monitoring – TF 95

Primrose East: TF 95 B12 Monitoring



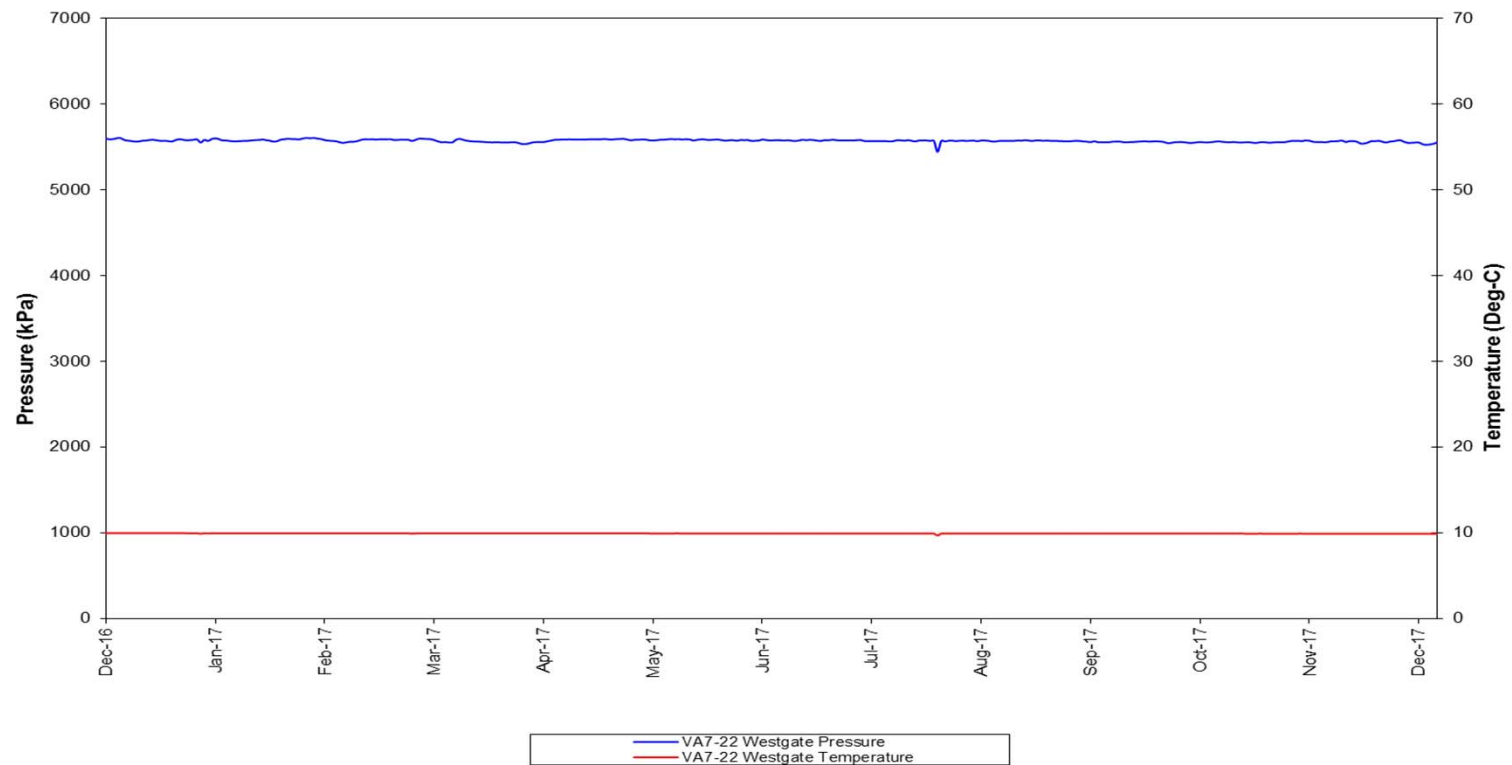
Primrose East Grand Rapids Pressure & Temperature Monitoring – VA7-22

Primrose East: VA7-22 OBS Well



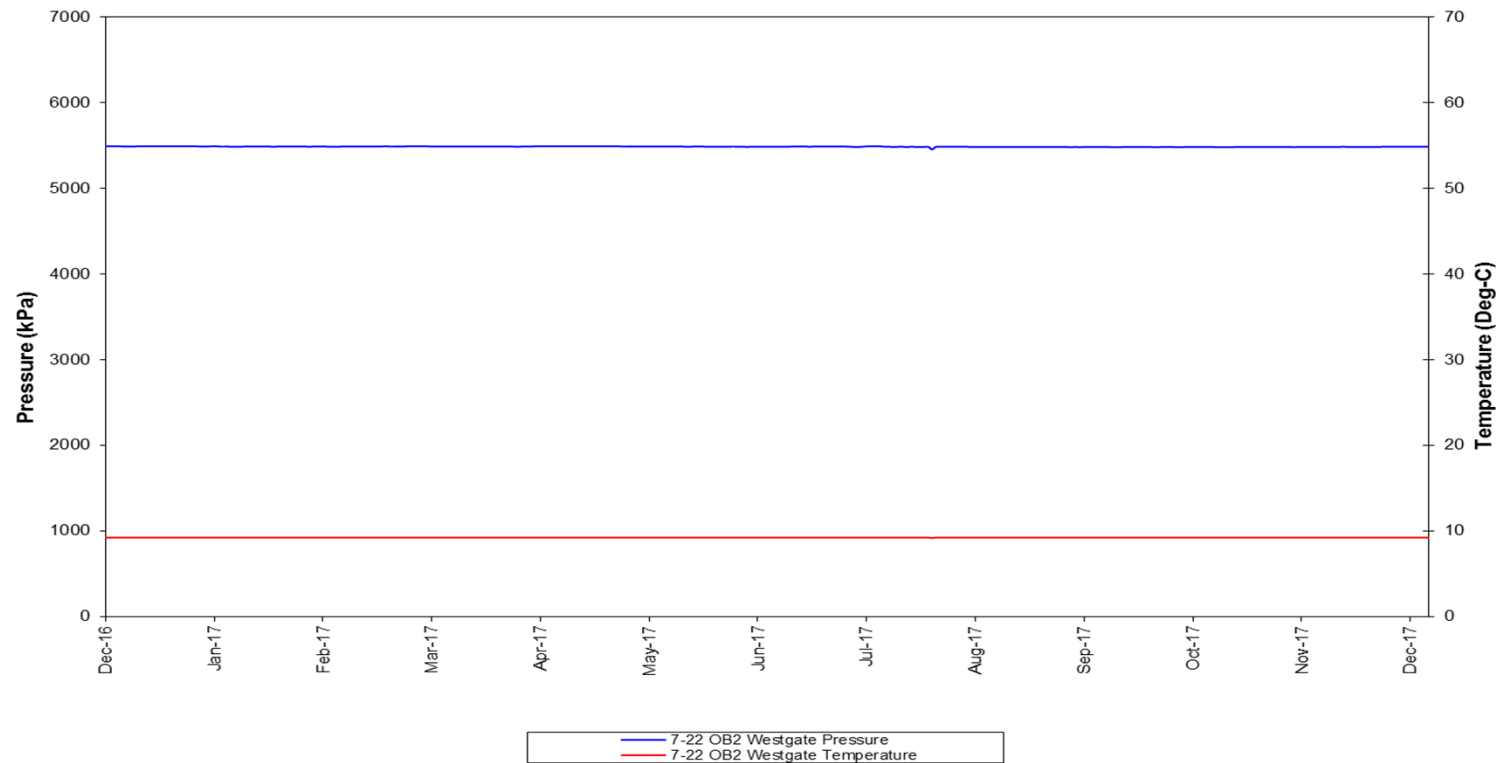
Primrose East Westgate Pressure & Temperature Monitoring – VA7-22

Primrose East: VA7-22 OBS Well



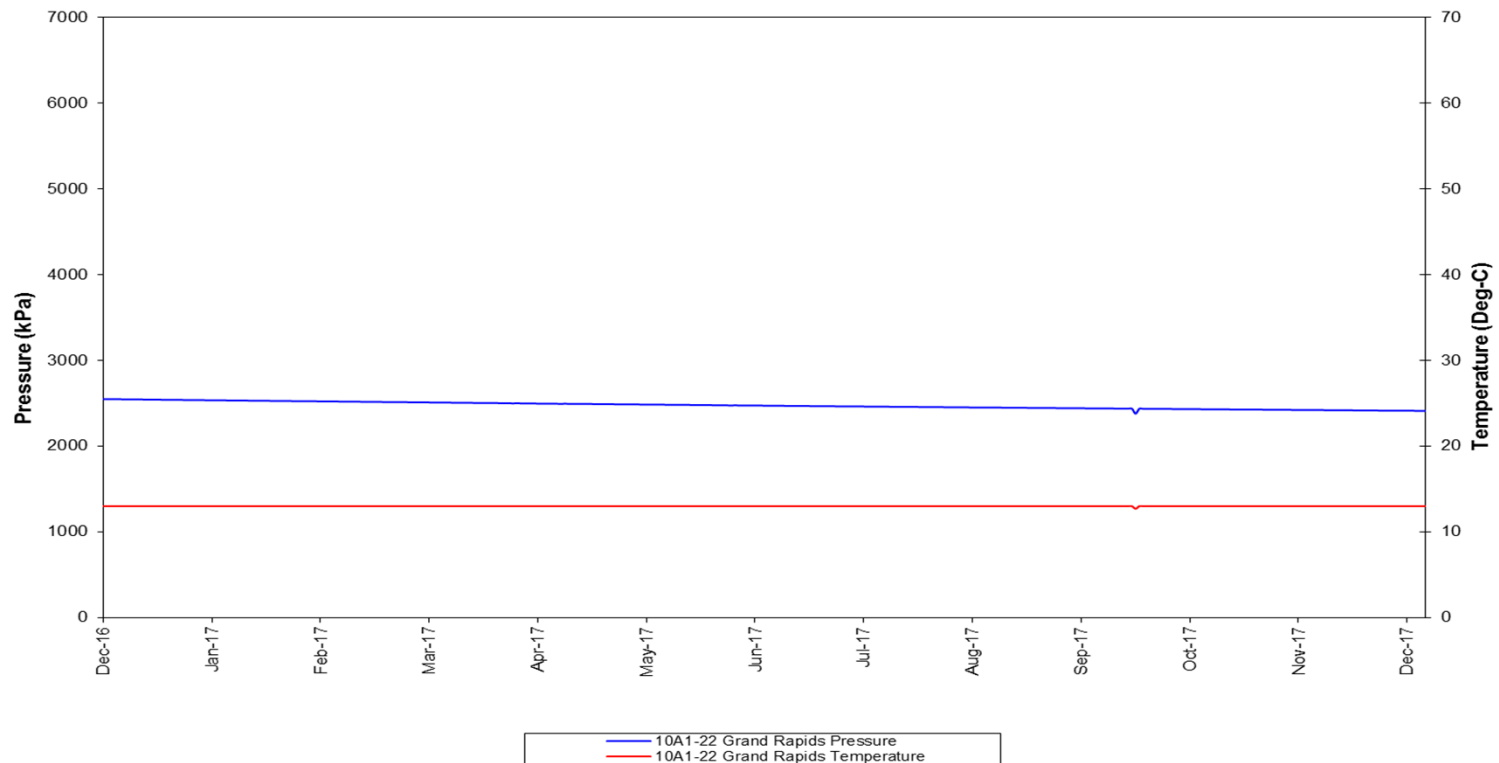
Primrose East Westgate Pressure & Temperature Monitoring – 7-22 OB2

Primrose East: 7-22 OB2 OBS Well



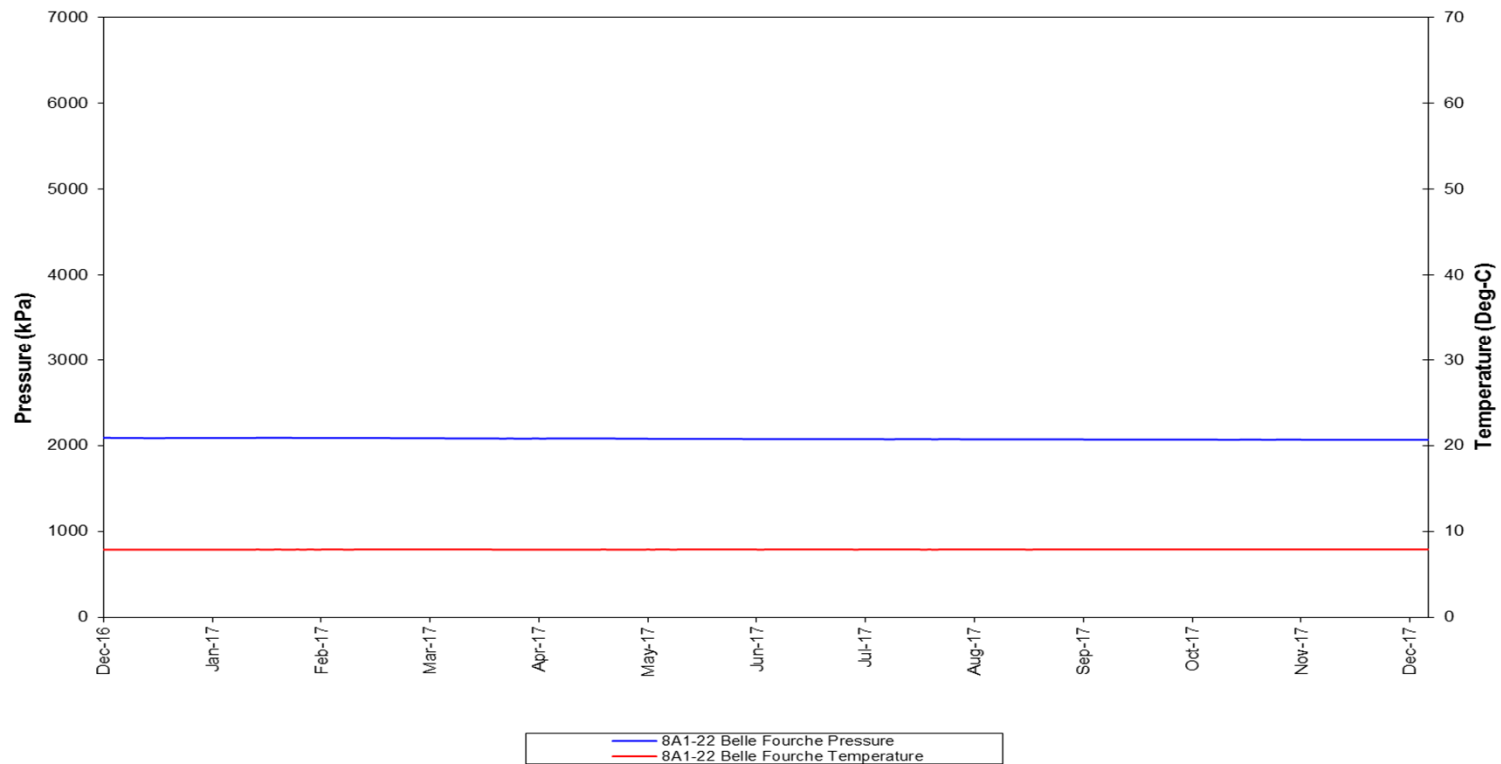
Primrose East Grand Rapids Pressure & Temperature Monitoring – 10A1-22 OB2

Primrose East: 10A1-22 OB2 OBS Well



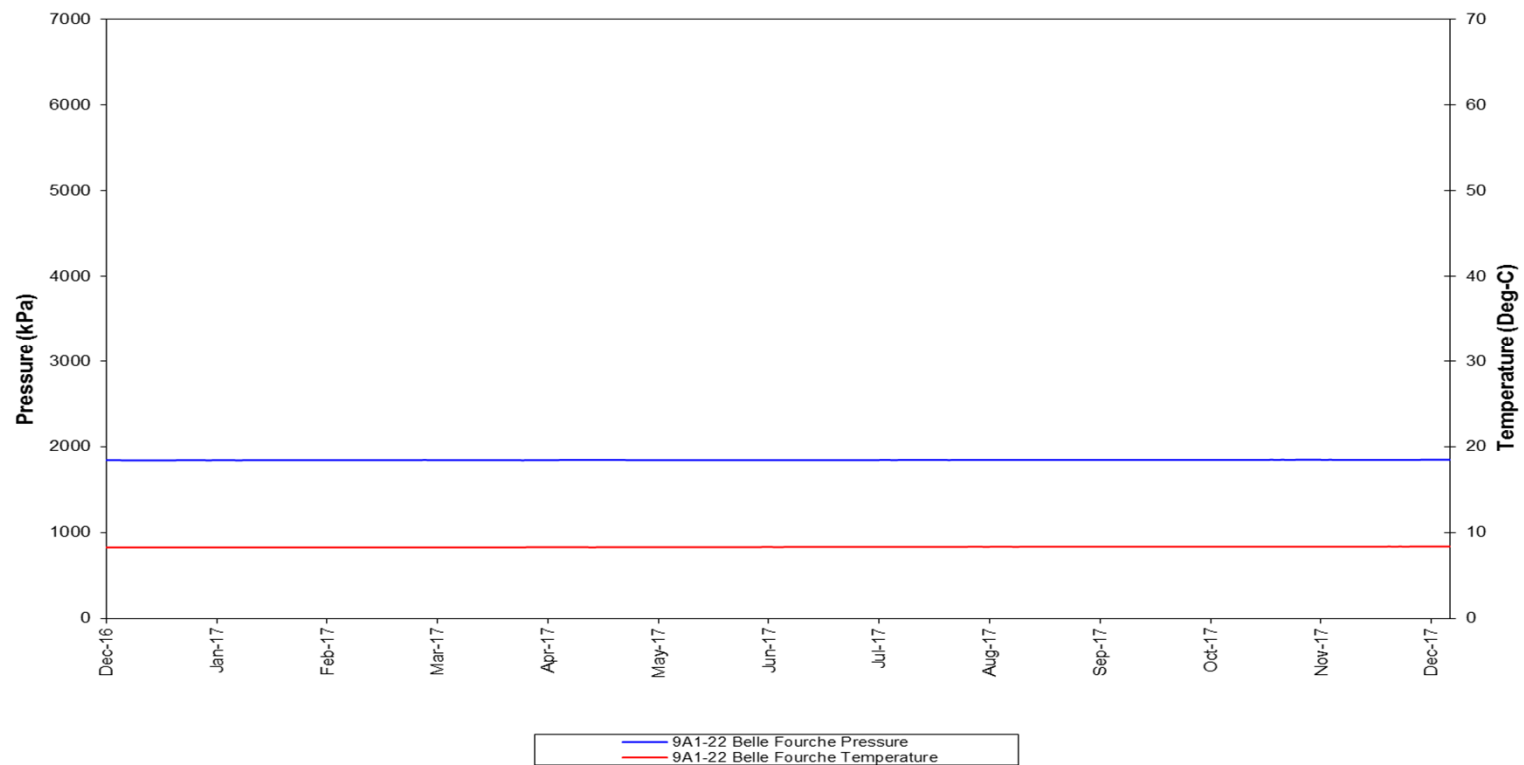
Primrose East Belle Fourche Pressure & Temperature Monitoring – 8A1-22

Primrose East: 8A1-22 OBS Well



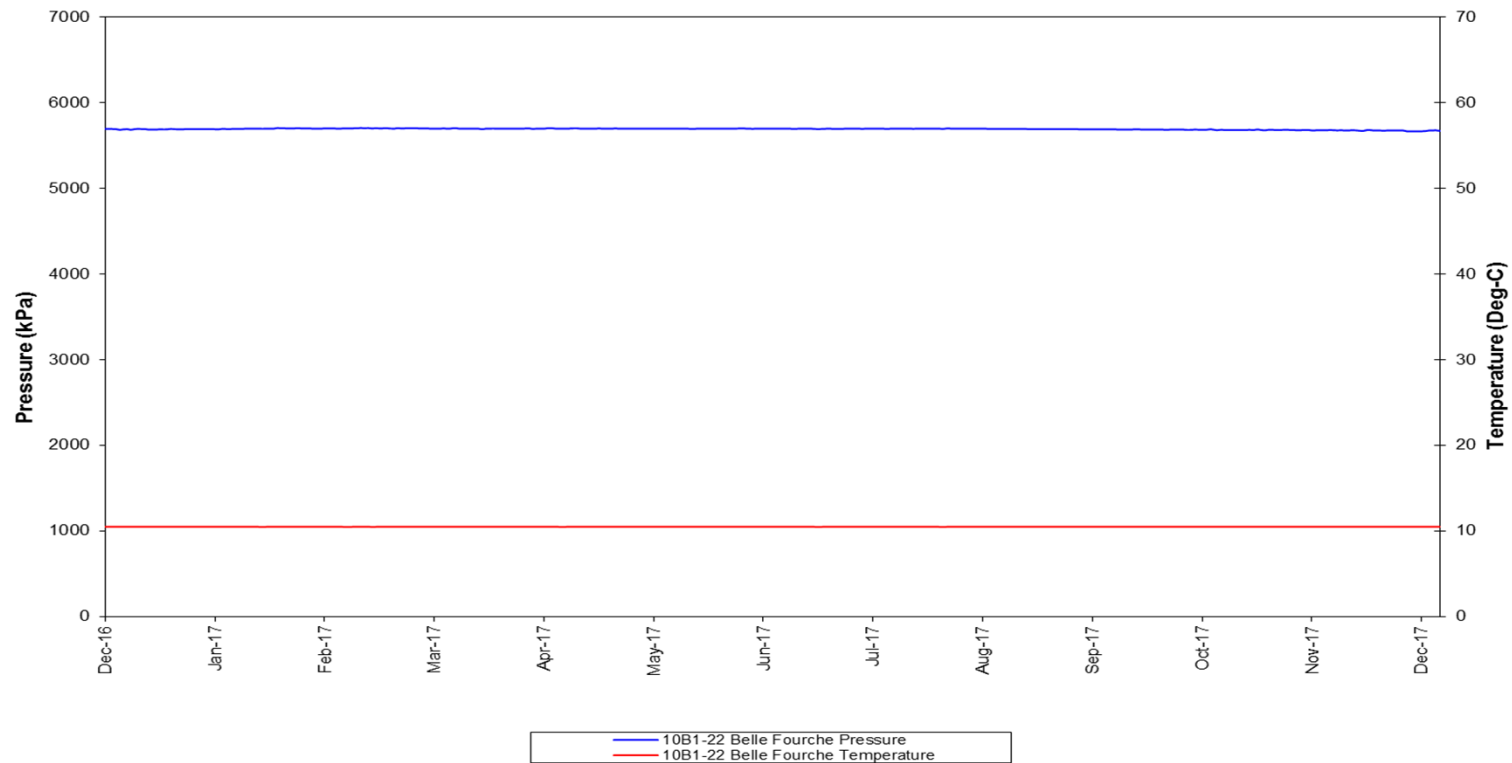
Primrose East Belle Fourche Pressure & Temperature Monitoring – 9A1-22

Primrose East: 9A1-22 OBS Well



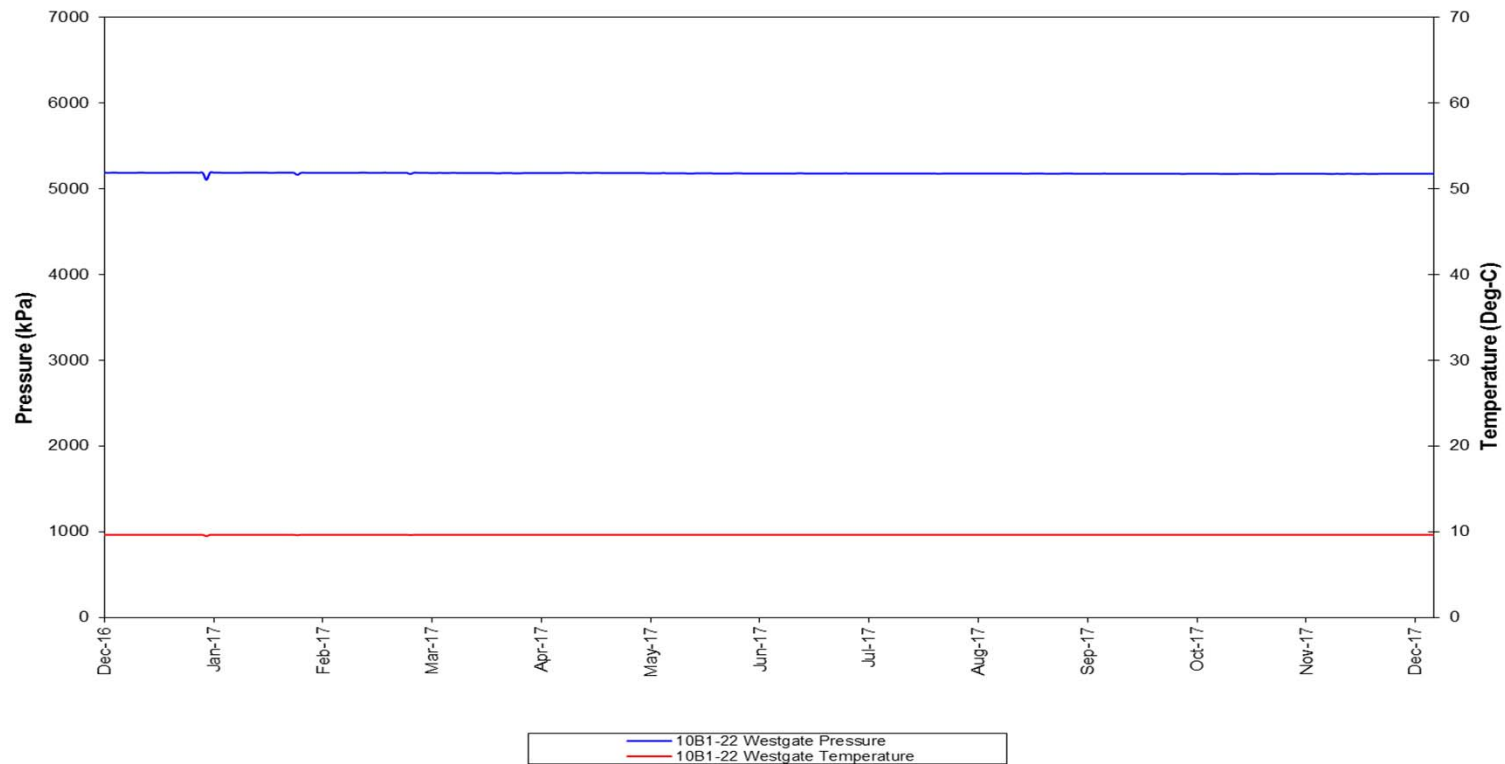
Primrose East Belle Fourche Pressure & Temperature Monitoring – 10B1-22

Primrose East: 10B1-22 OBS Well



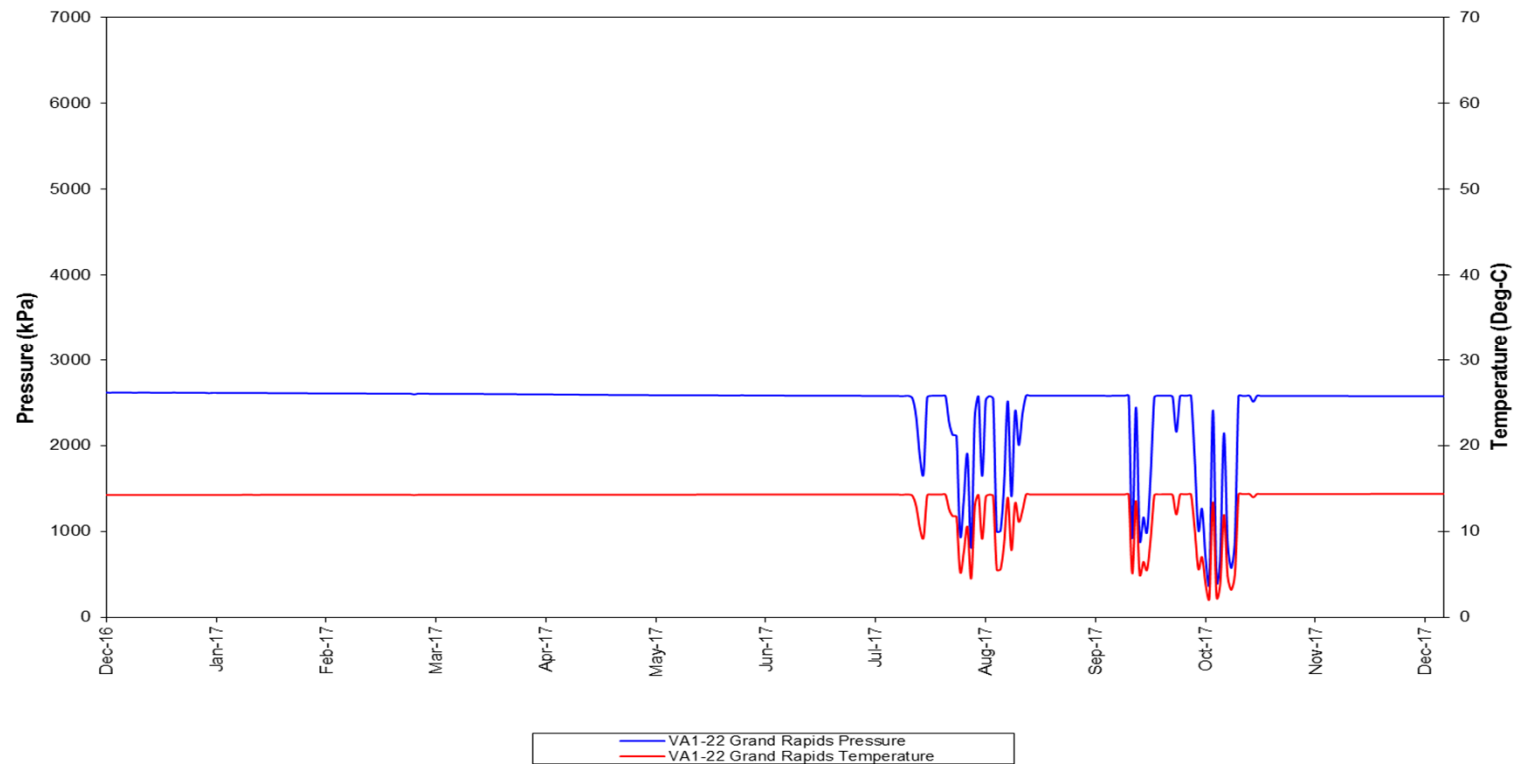
Primrose East Westgate Pressure & Temperature Monitoring – 10B1-22

Primrose East: 10B1-22 OBS Well



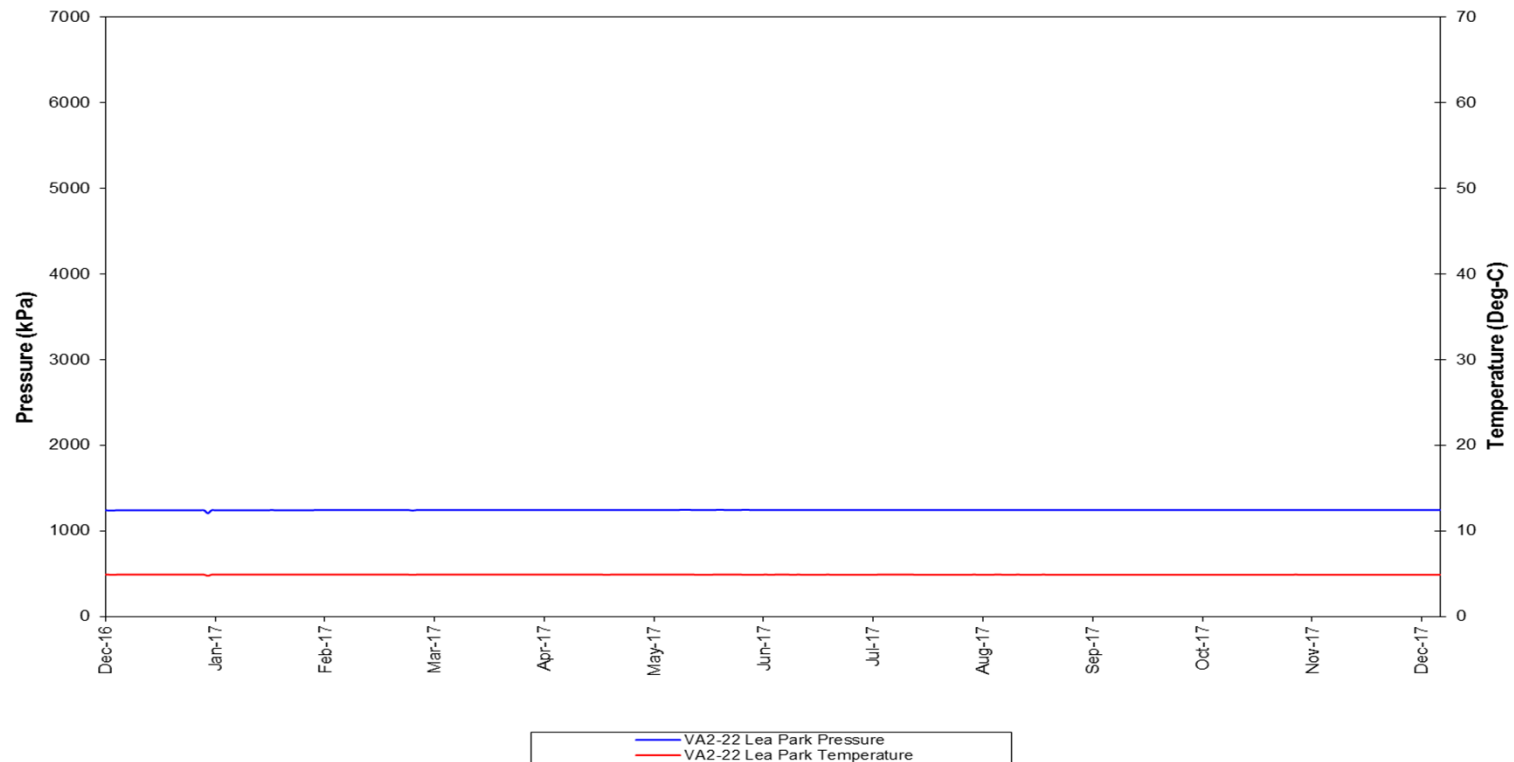
Primrose East Grand Rapids Pressure & Temperature Monitoring – VA1-22

Primrose East: VA1-22 OBS Well

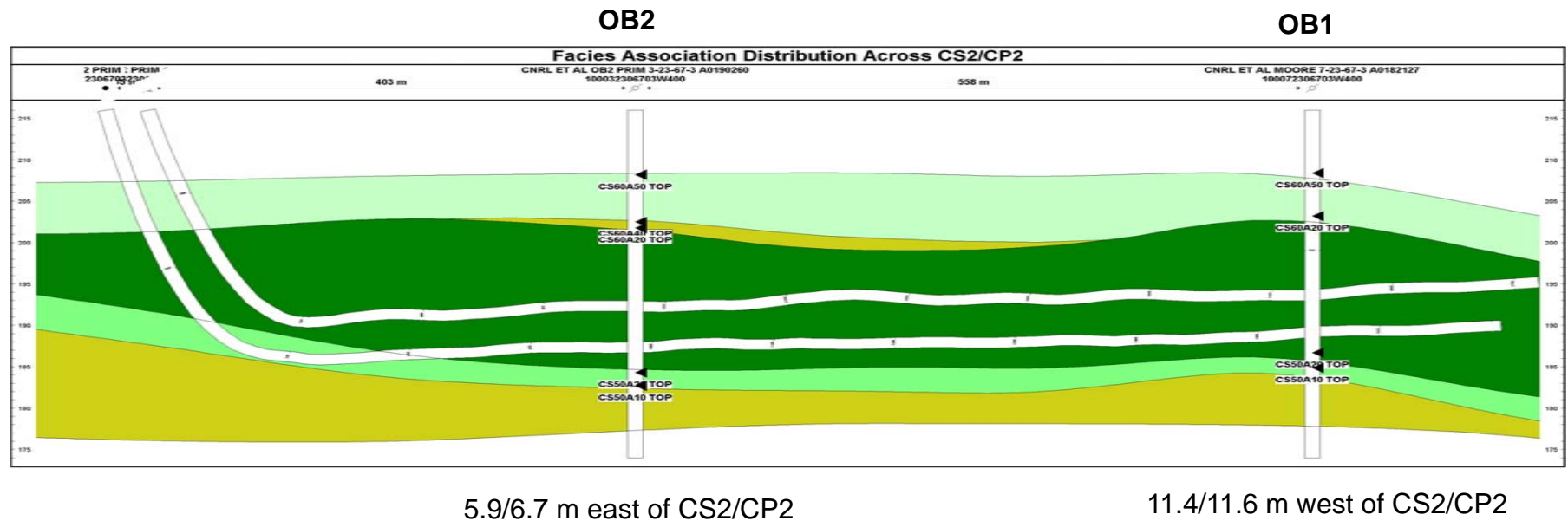


Primrose East Lea Park Pressure & Temperature Monitoring – VA2-22

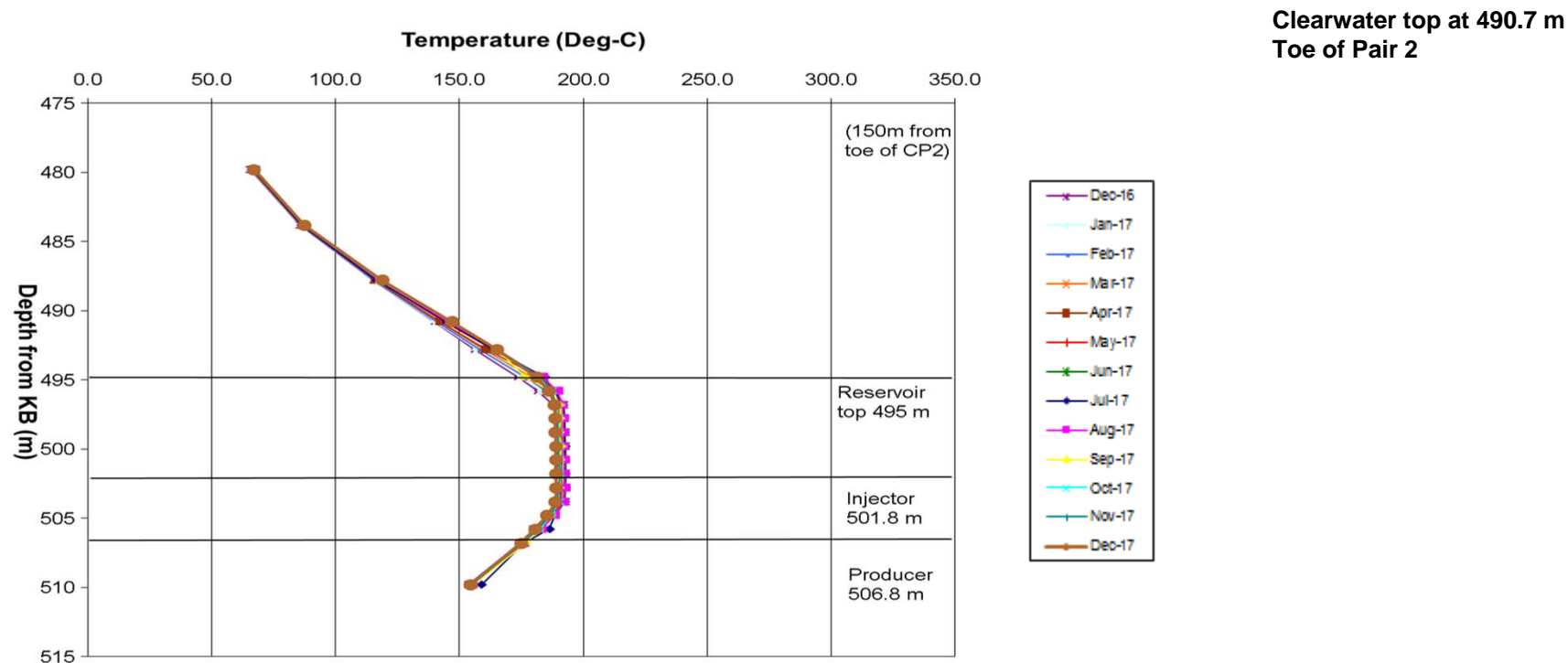
Primrose East: VA2-22 OBS Well



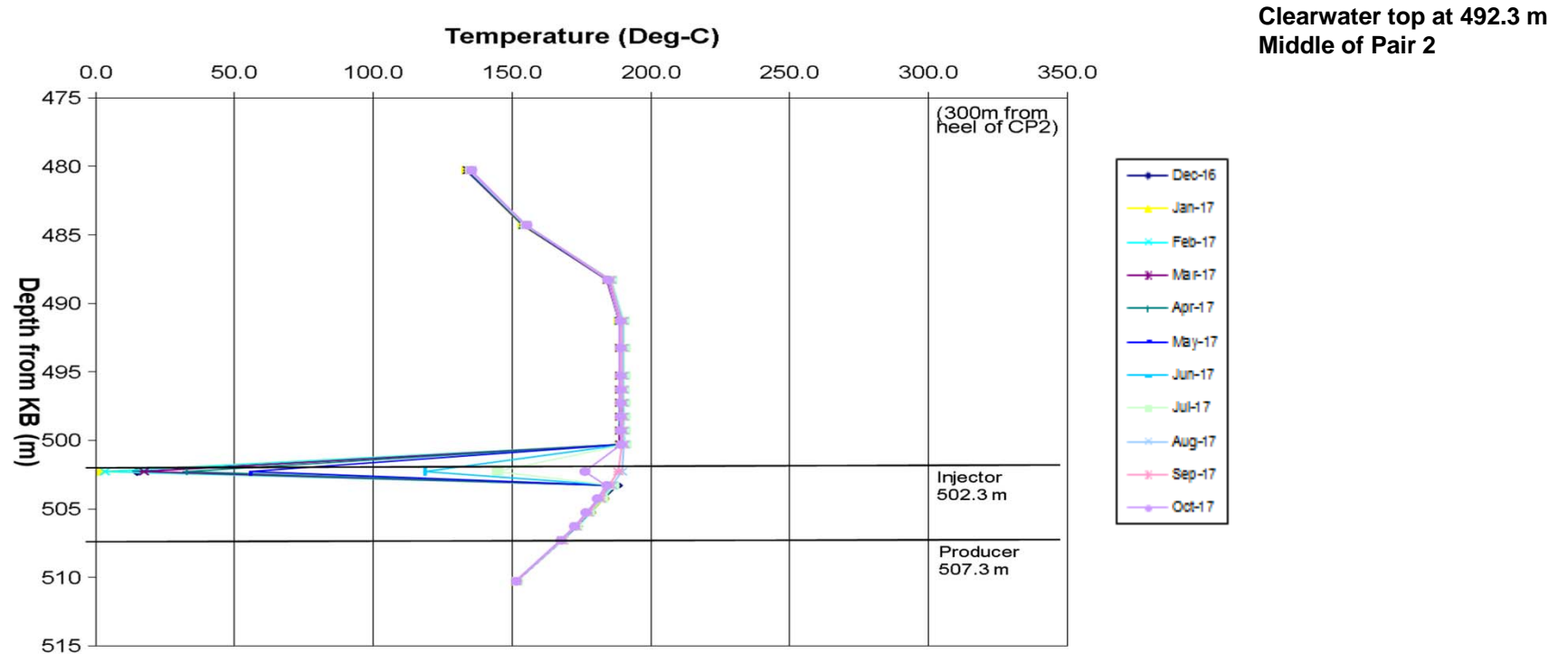
Burnt Lake Observation Wells - Distance to Burnt Lake Observation Well #1, and # 2



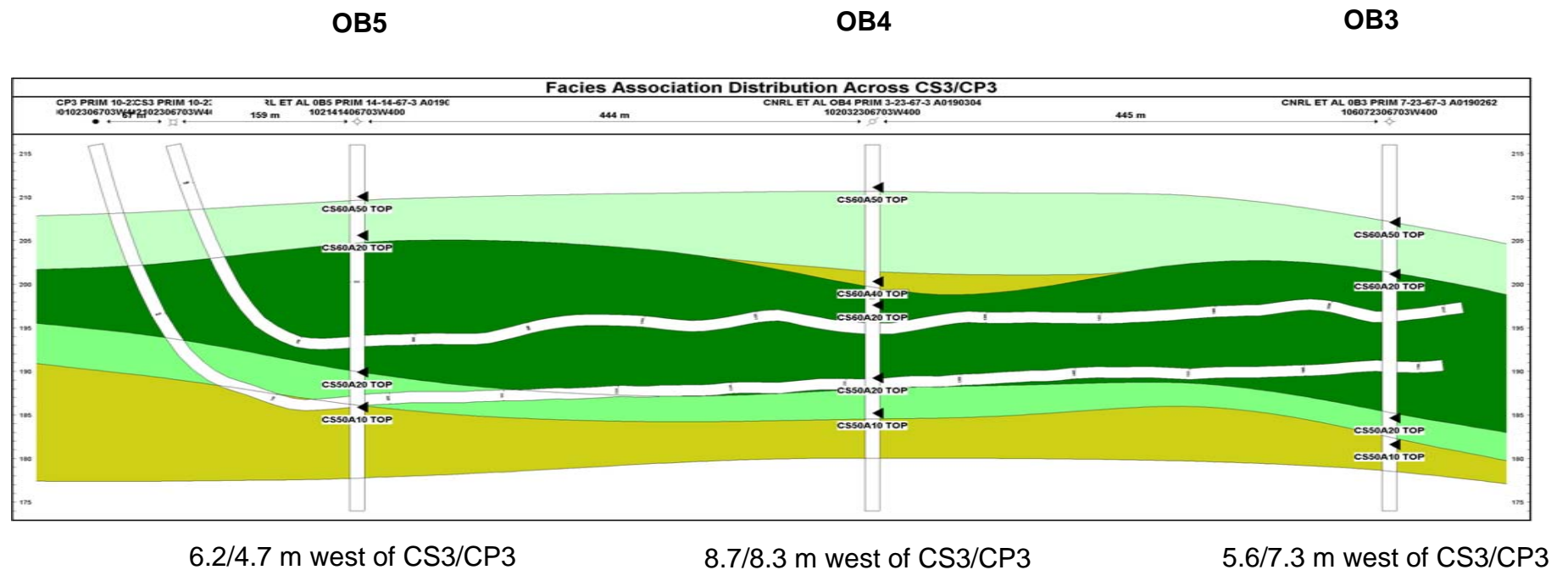
Temperature Profile for Burnt Lake Observation Well #1



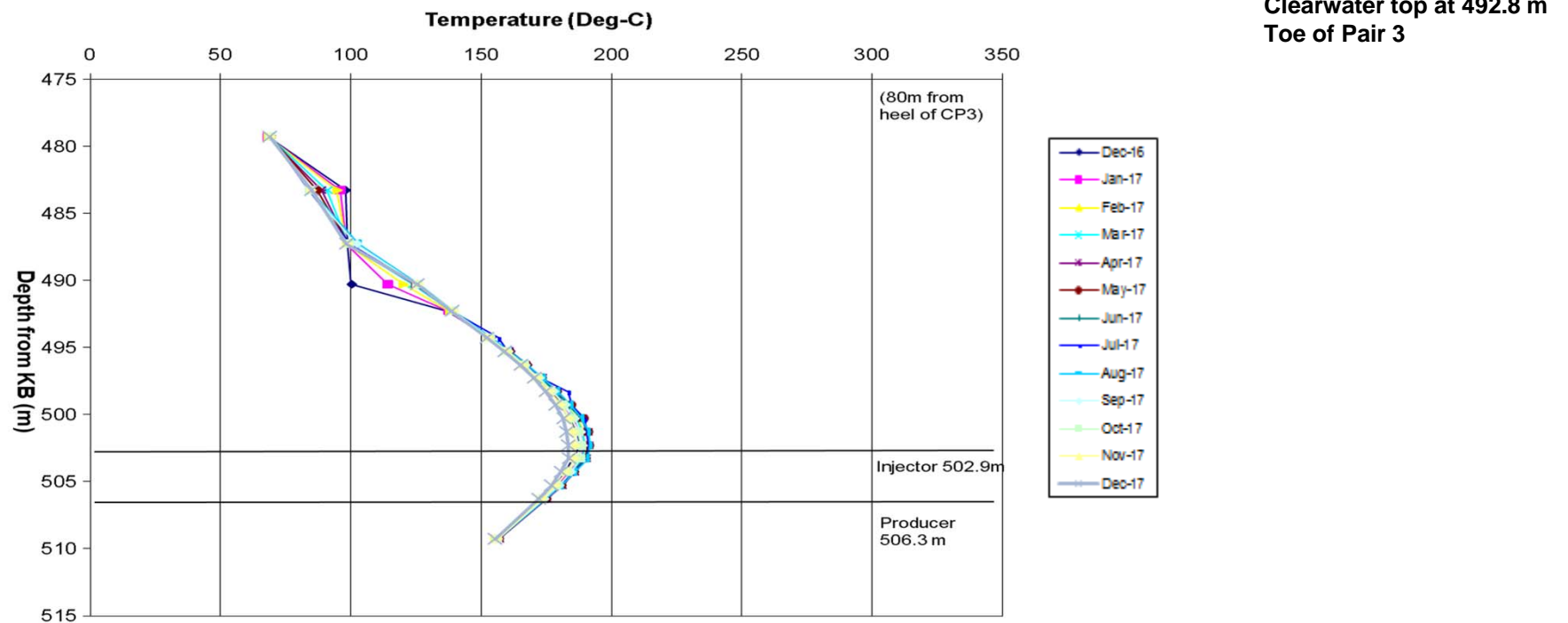
Temperature Profile for Burnt Lake Observation Well #2



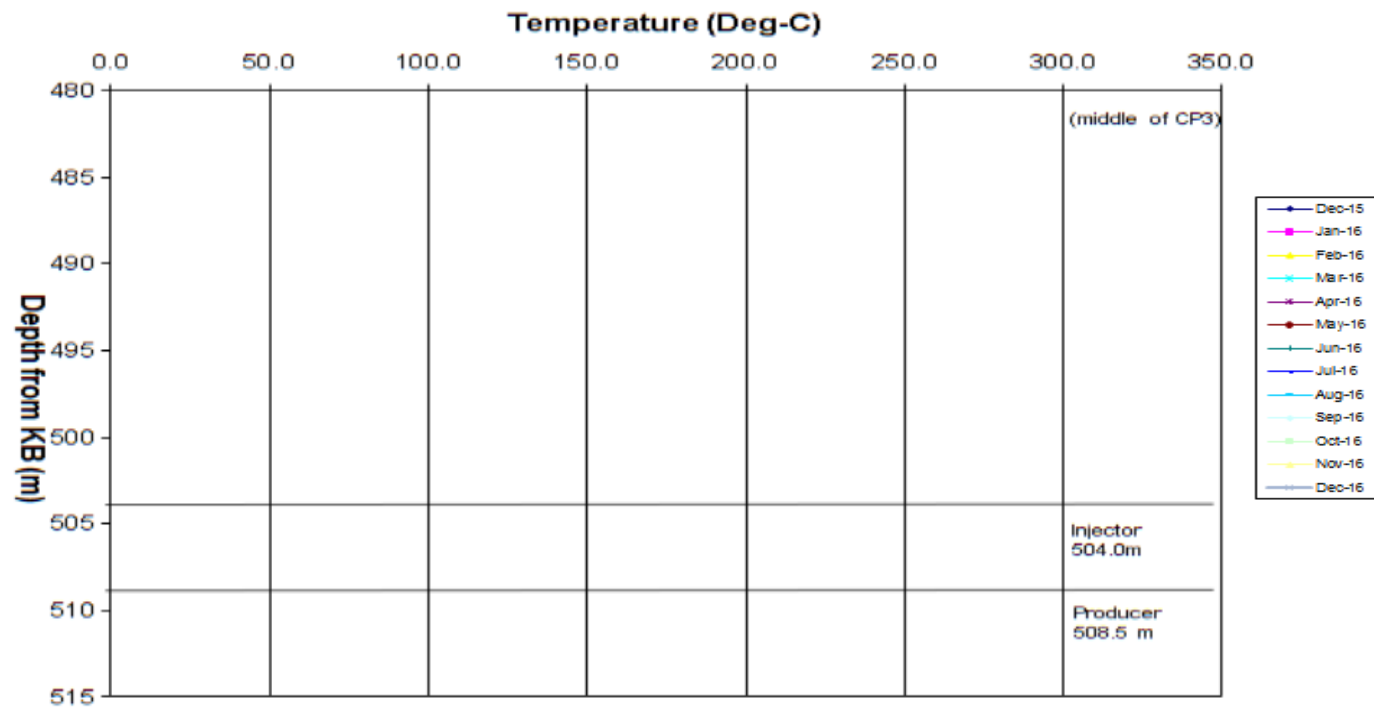
Burnt Lake Observation Wells - Distance to Burnt Lake Observation Well #3, #4, and #5



Temperature Profile for Burnt Lake Observation Well #3

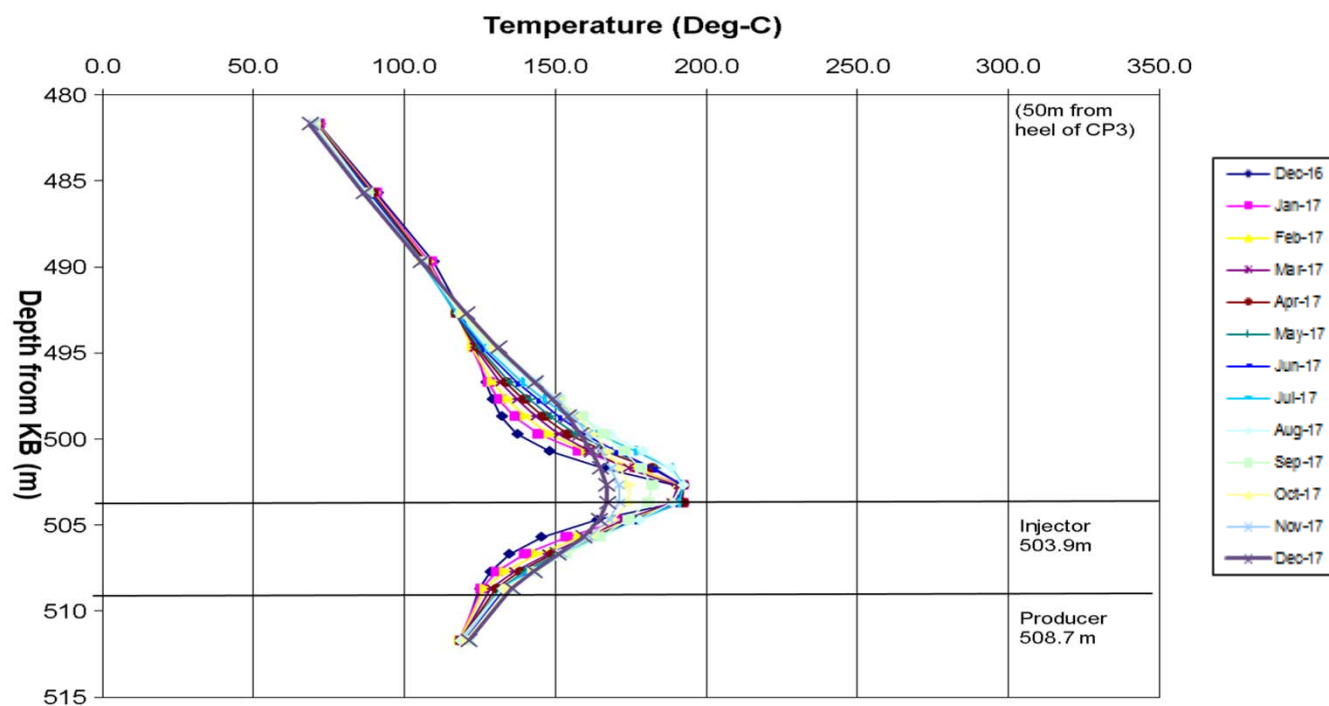


Temperature Profile for Burnt Lake Observation Well #4



Clearwater top at 487.3 m
Middle of Pair 3
No Data collection 2015, 2016,
2017

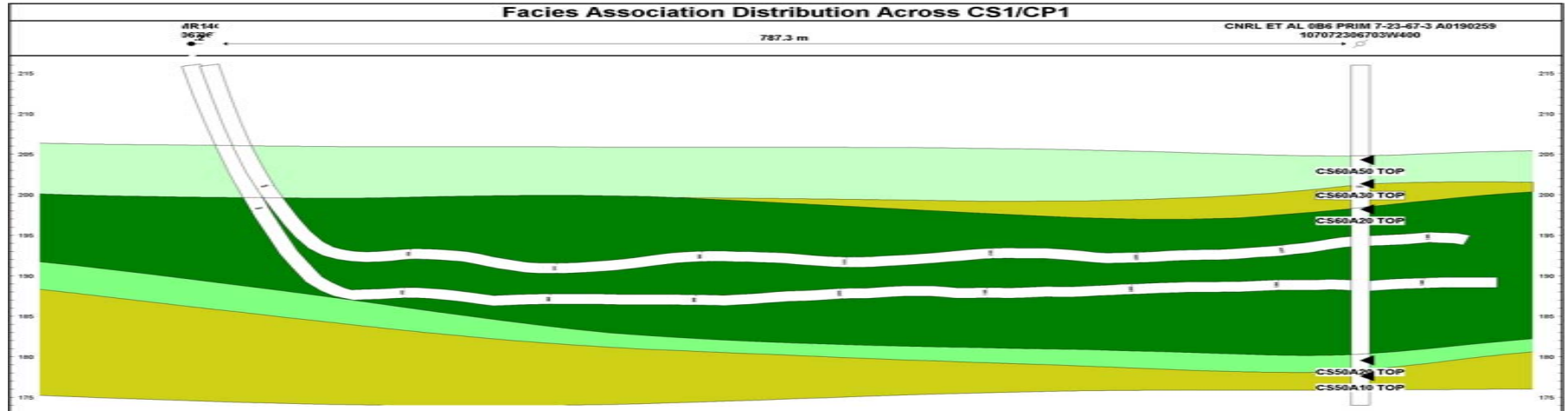
Temperature Profile for Burnt Lake Observation Well #5



Clearwater top at 491.0 m
Heel of Pair 3

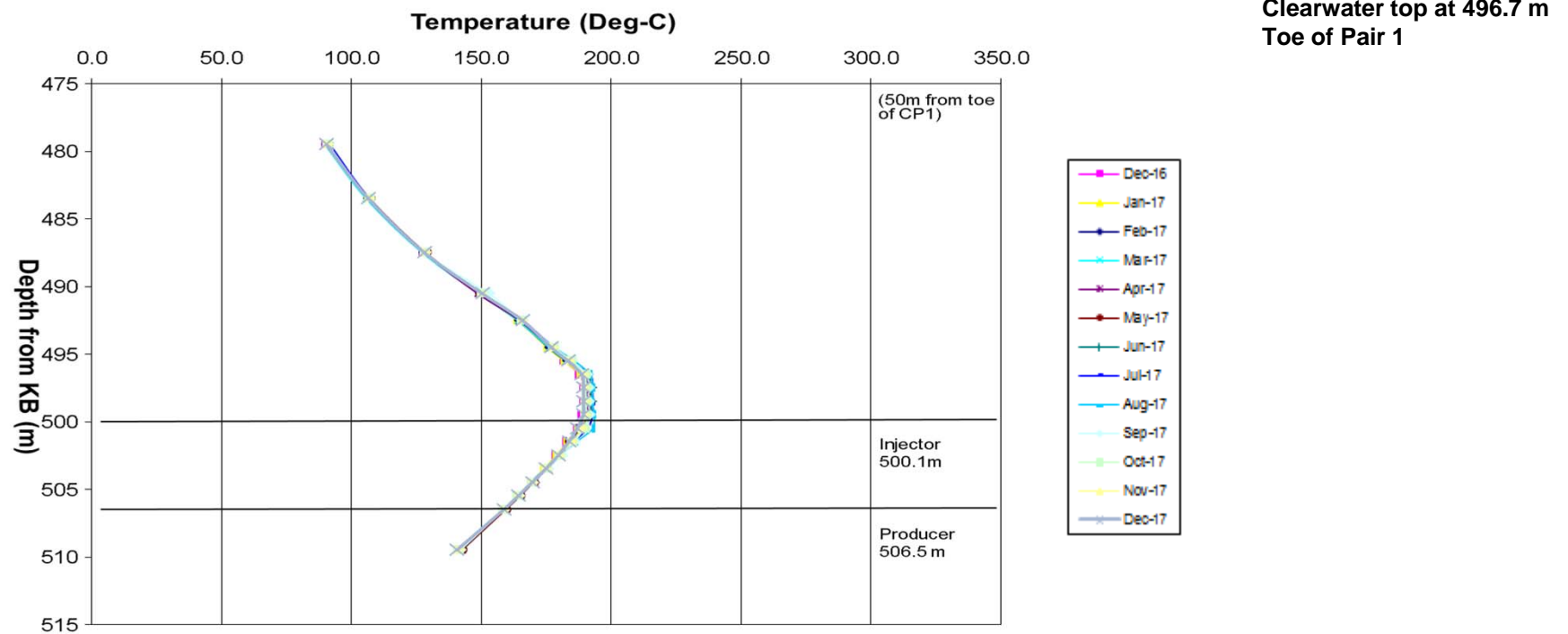
Burnt Lake Observation Wells - Distance to Burnt Lake Observation Well #6

OB6



18.2/18.5 m east of CS1/CP1

Temperature Profile for Burnt Lake Observation Well #6



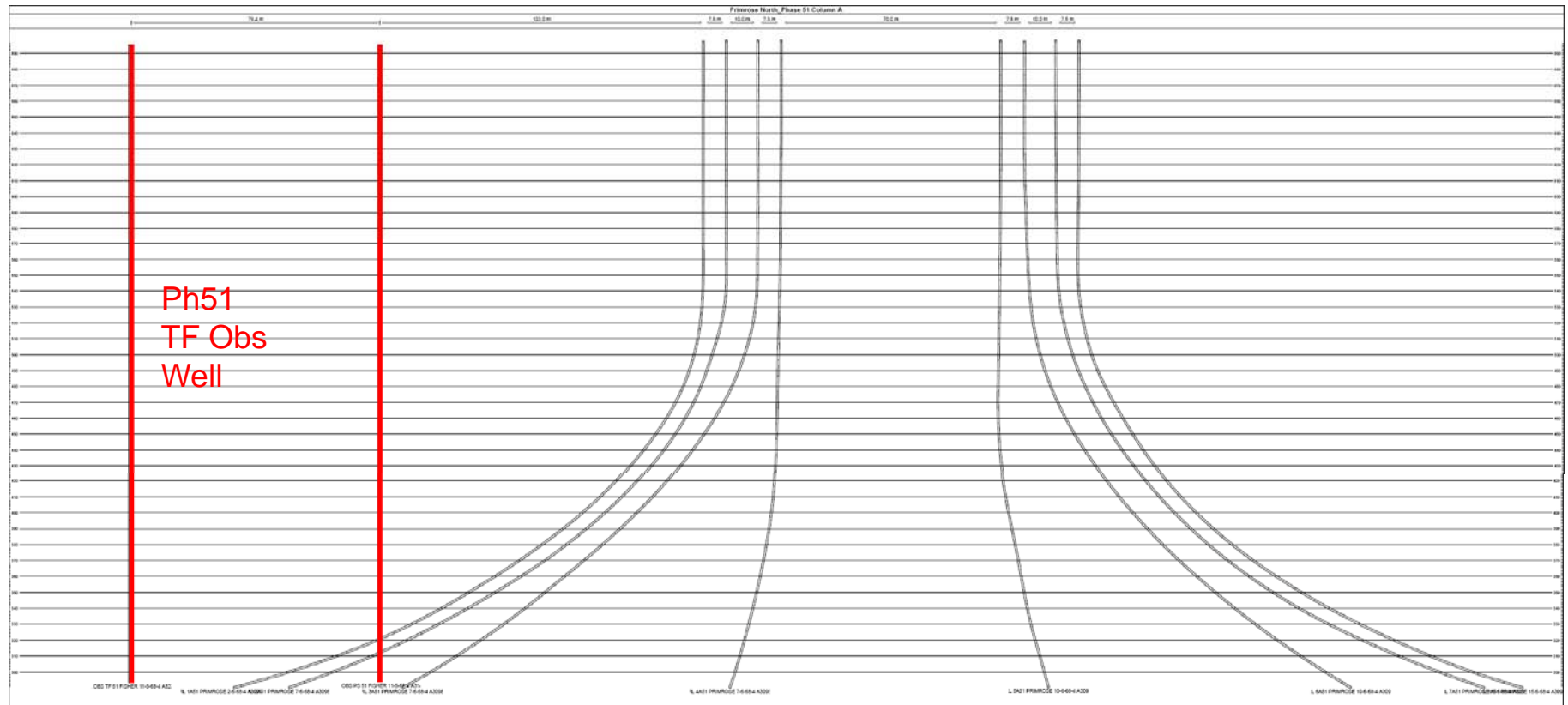


Canadian Natural

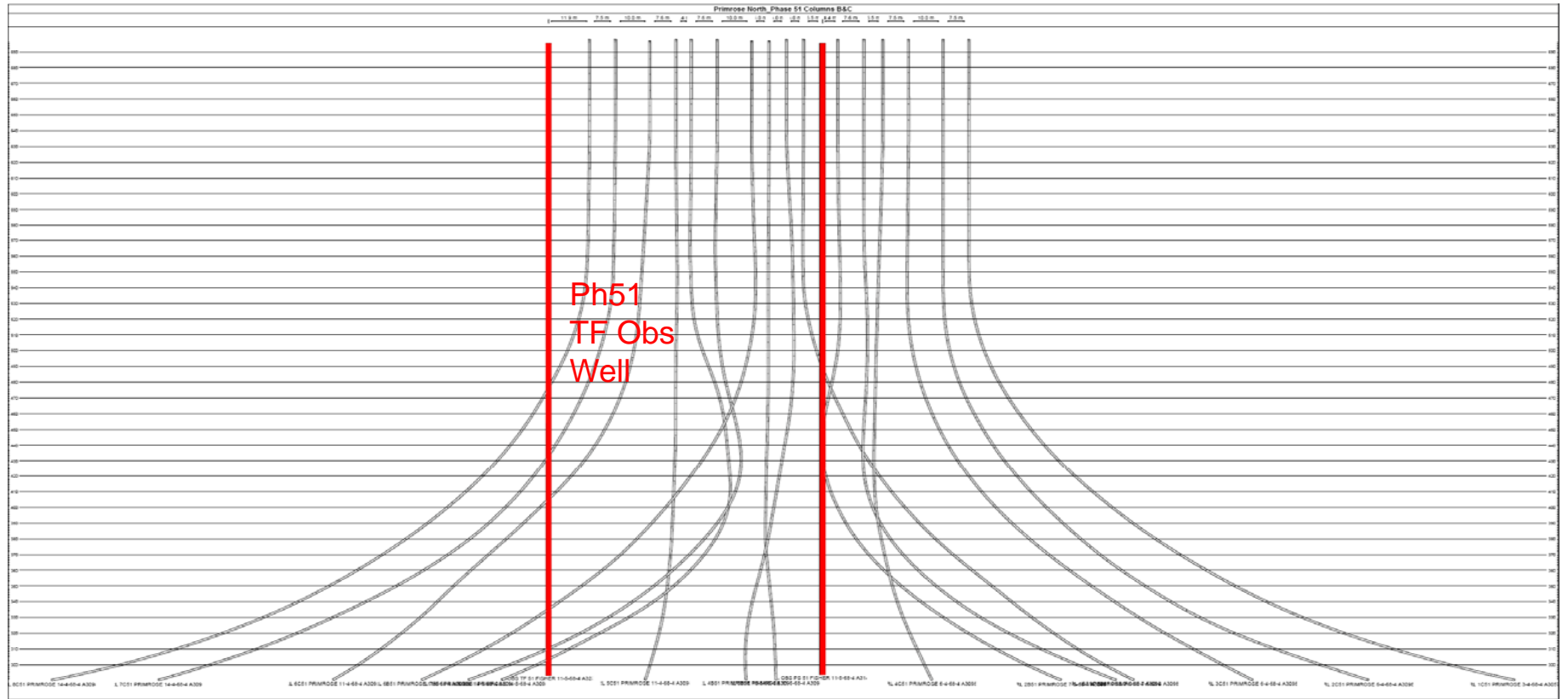
2017 Primrose CSS Thermal Fiber Data

Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 51 – A Column View



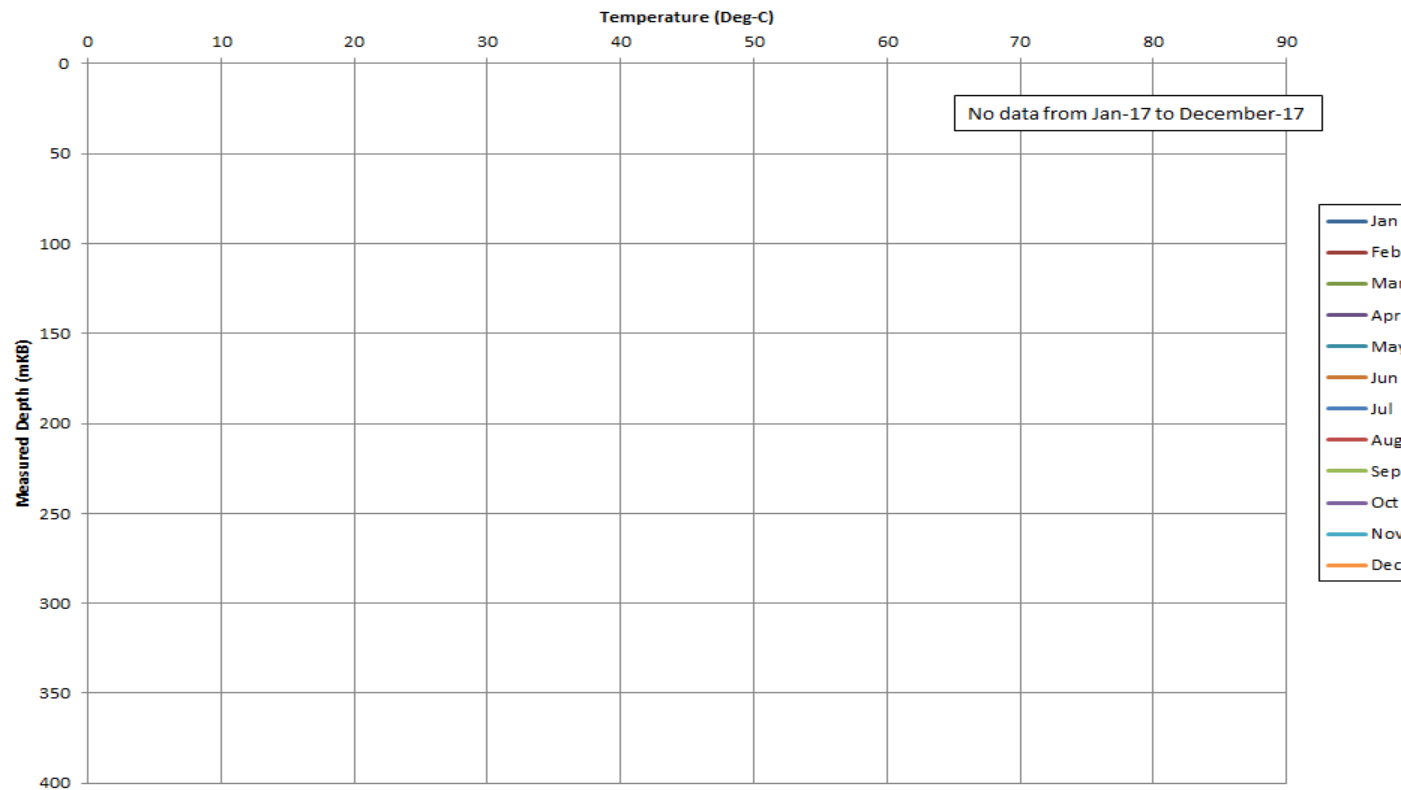
Thermal Fiber Wells in Steamed Areas Primrose North – Phase 51 – B/C Column View



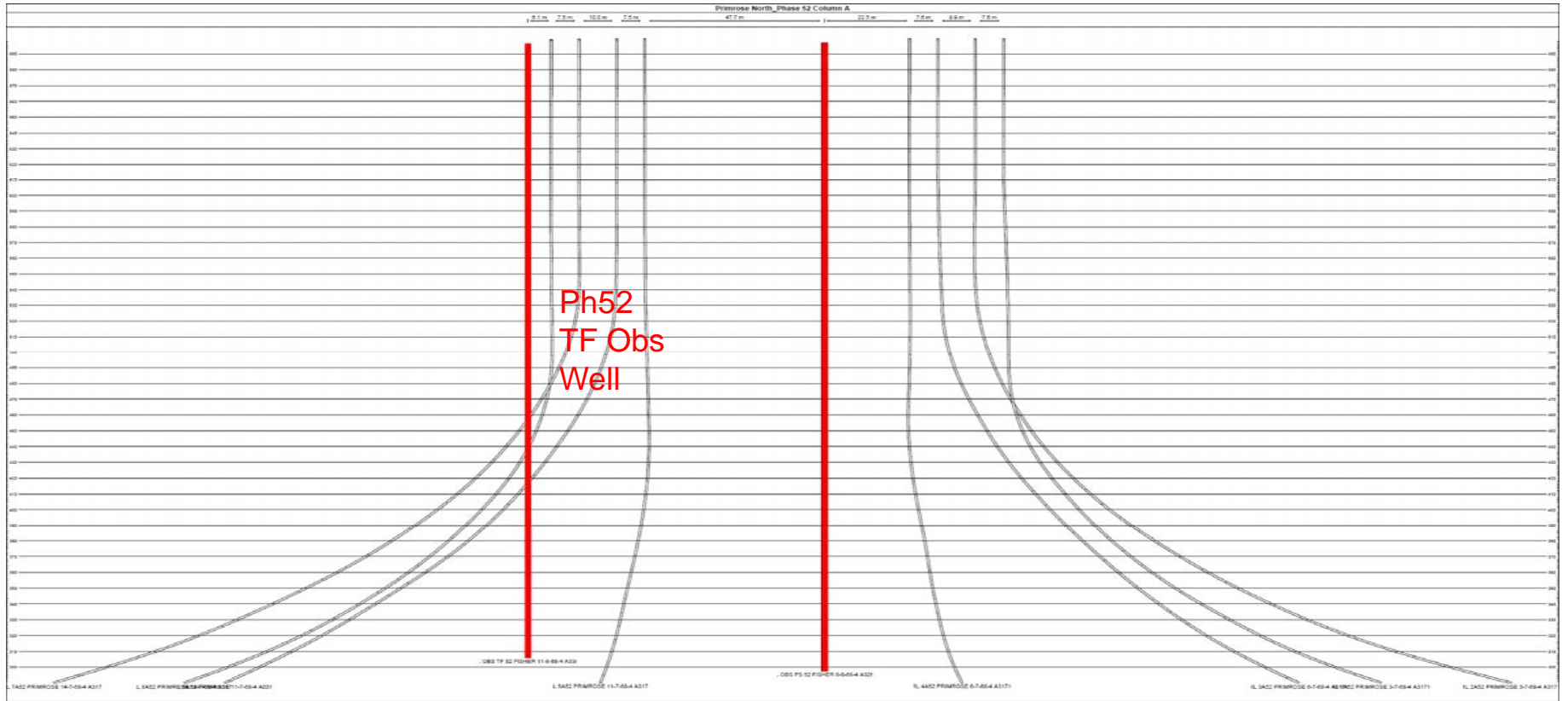
Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 51

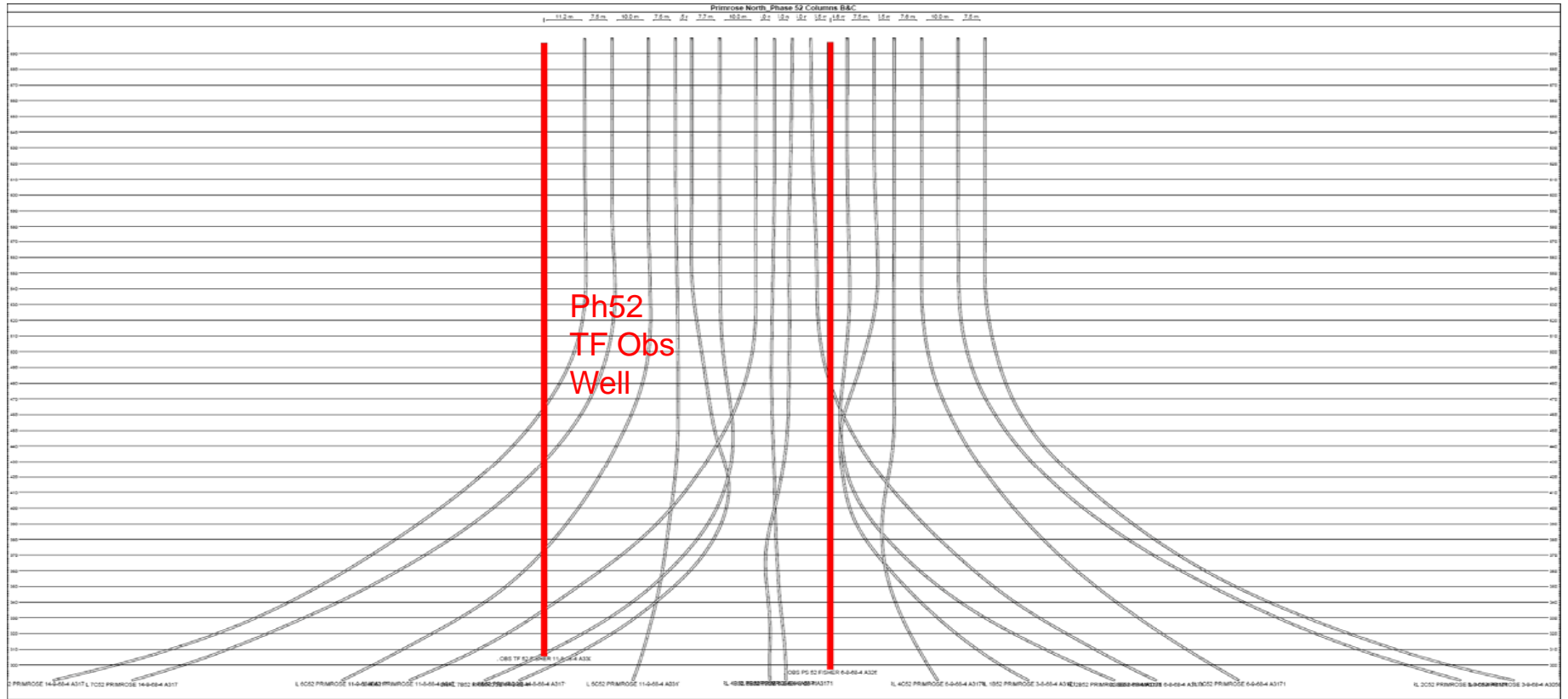
Primrose North Thermal Fiber Well: Pad 51 (2017)



Thermal Fiber Wells in Steamed Areas Primrose North – Phase 52 – A Column View

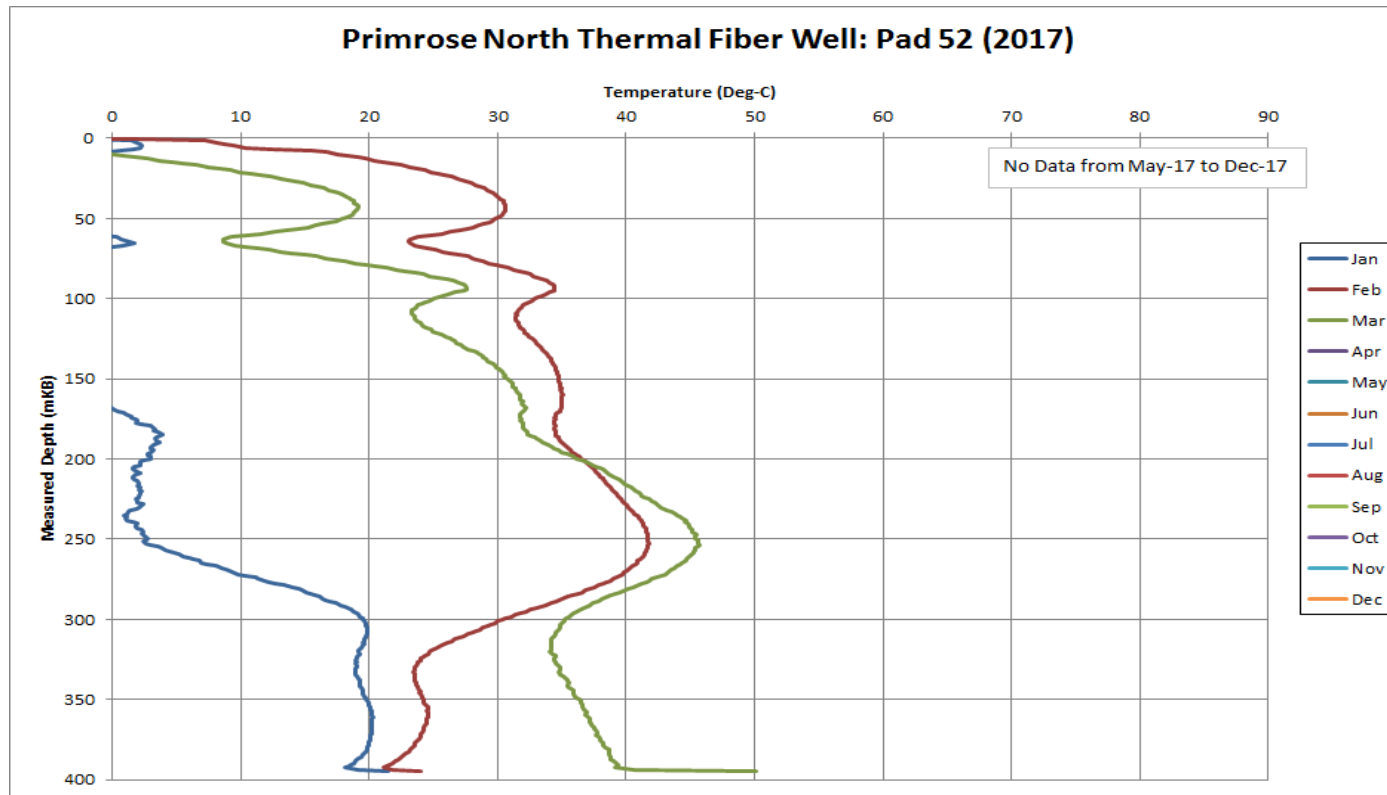


Thermal Fiber Wells in Steamed Areas Primrose North – Phase 52 – B/C Column View

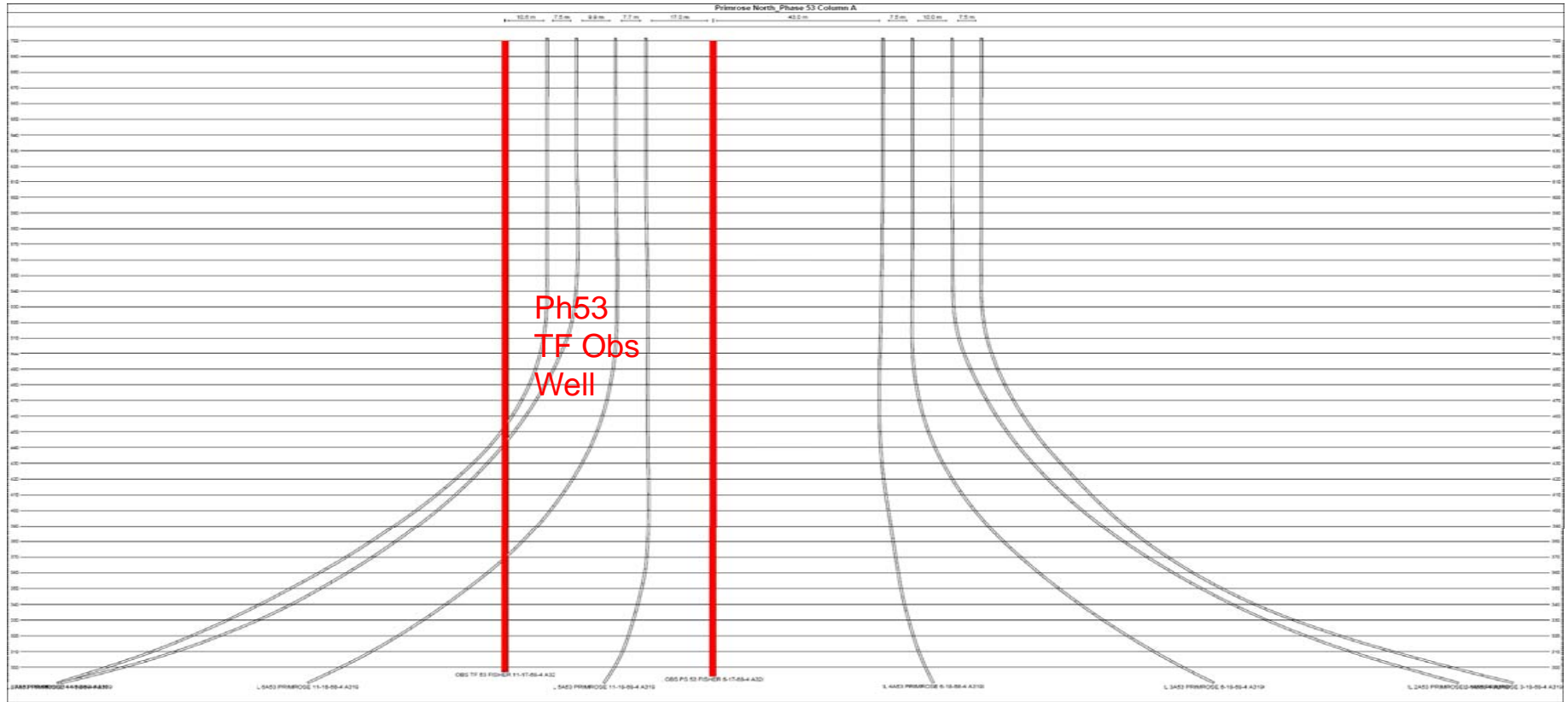


Thermal Fiber Wells in Steamed Areas

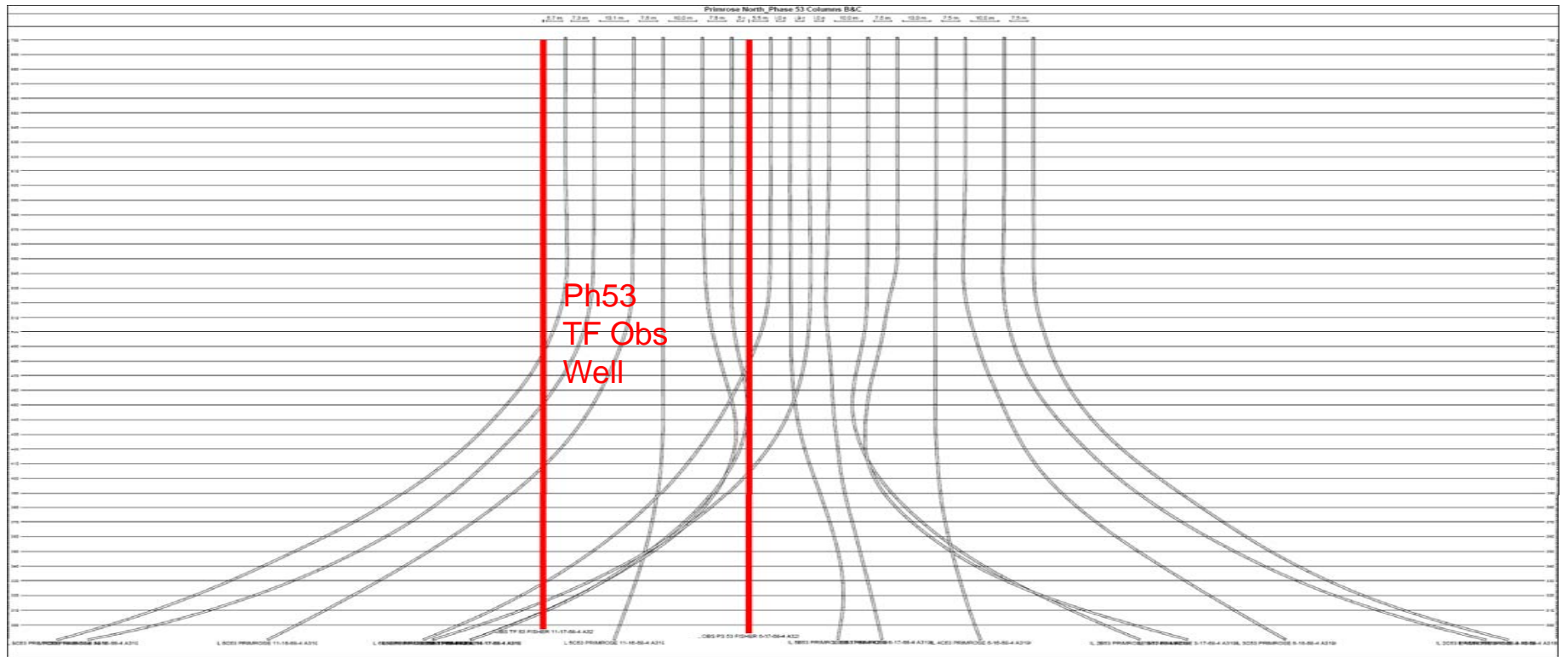
Primrose North – Phase 52



Thermal Fiber Wells in Steamed Areas Primrose North – Phase 53 – A Column View



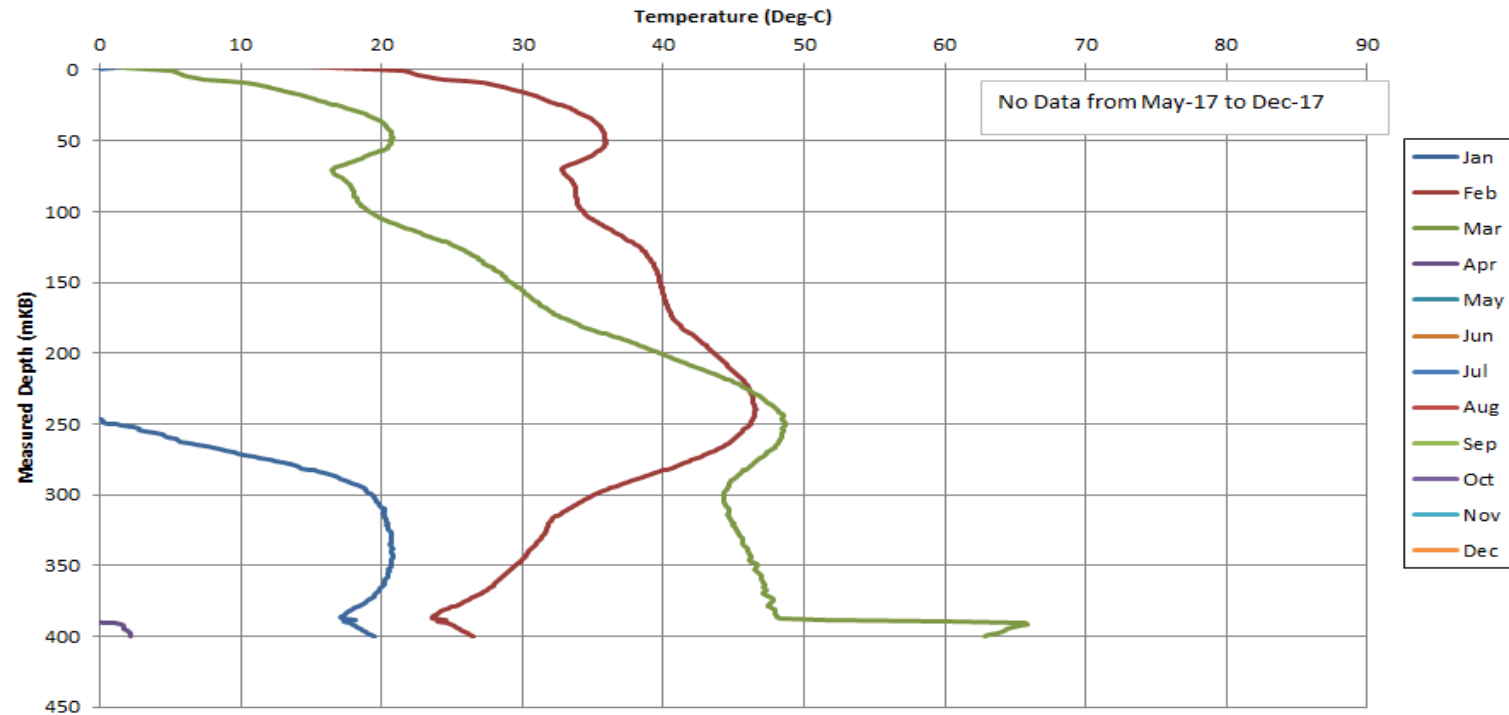
Thermal Fiber Wells in Steamed Areas Primrose North – Phase 53 – B/C Column View



Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 53

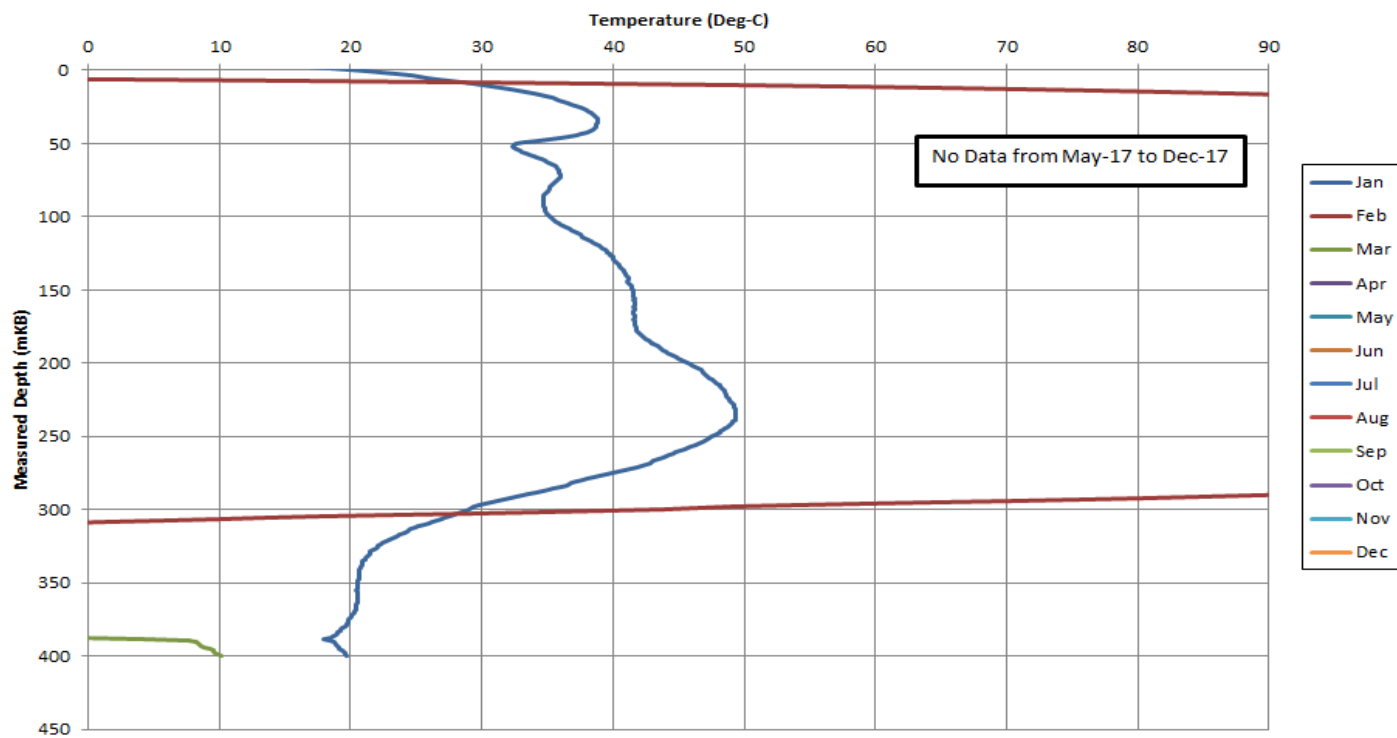
Primrose North Thermal Fiber Well: Pad 53 (2017)



Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 54

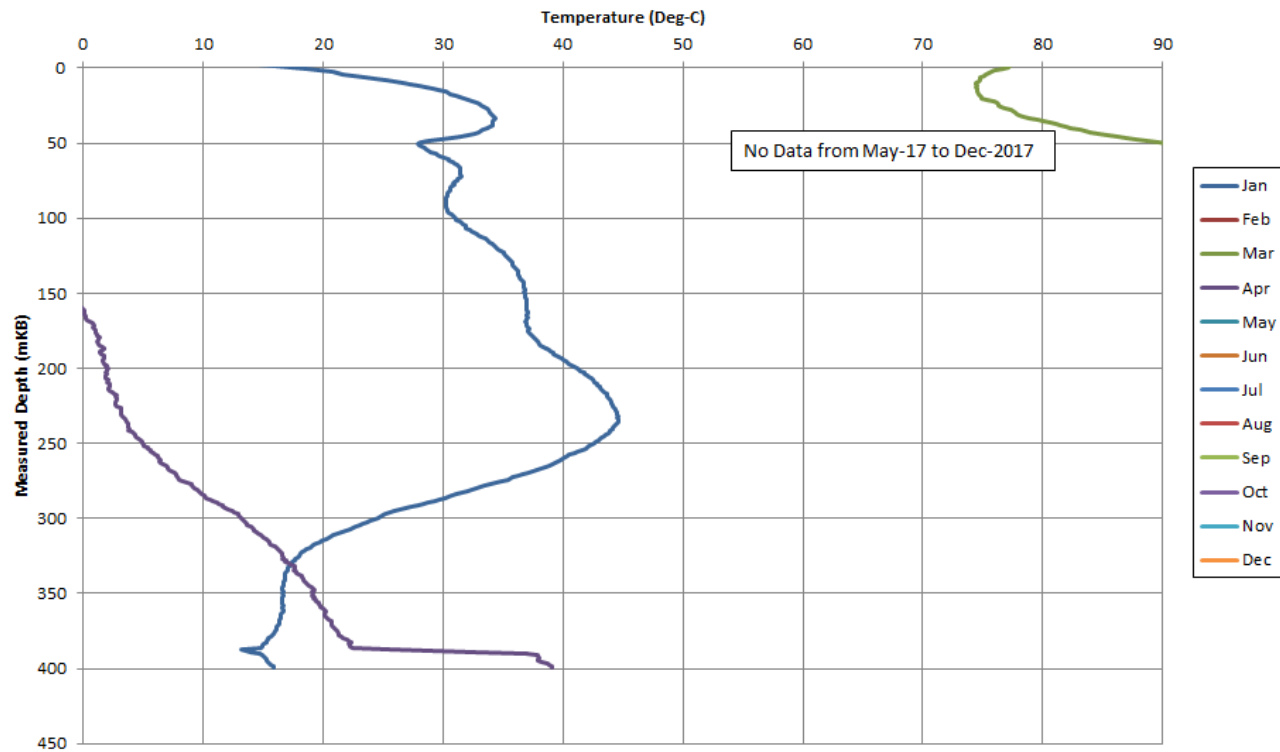
Primrose North Thermal Fiber Well: Pad 54A (2017)



Thermal Fiber Wells in Steamed Areas

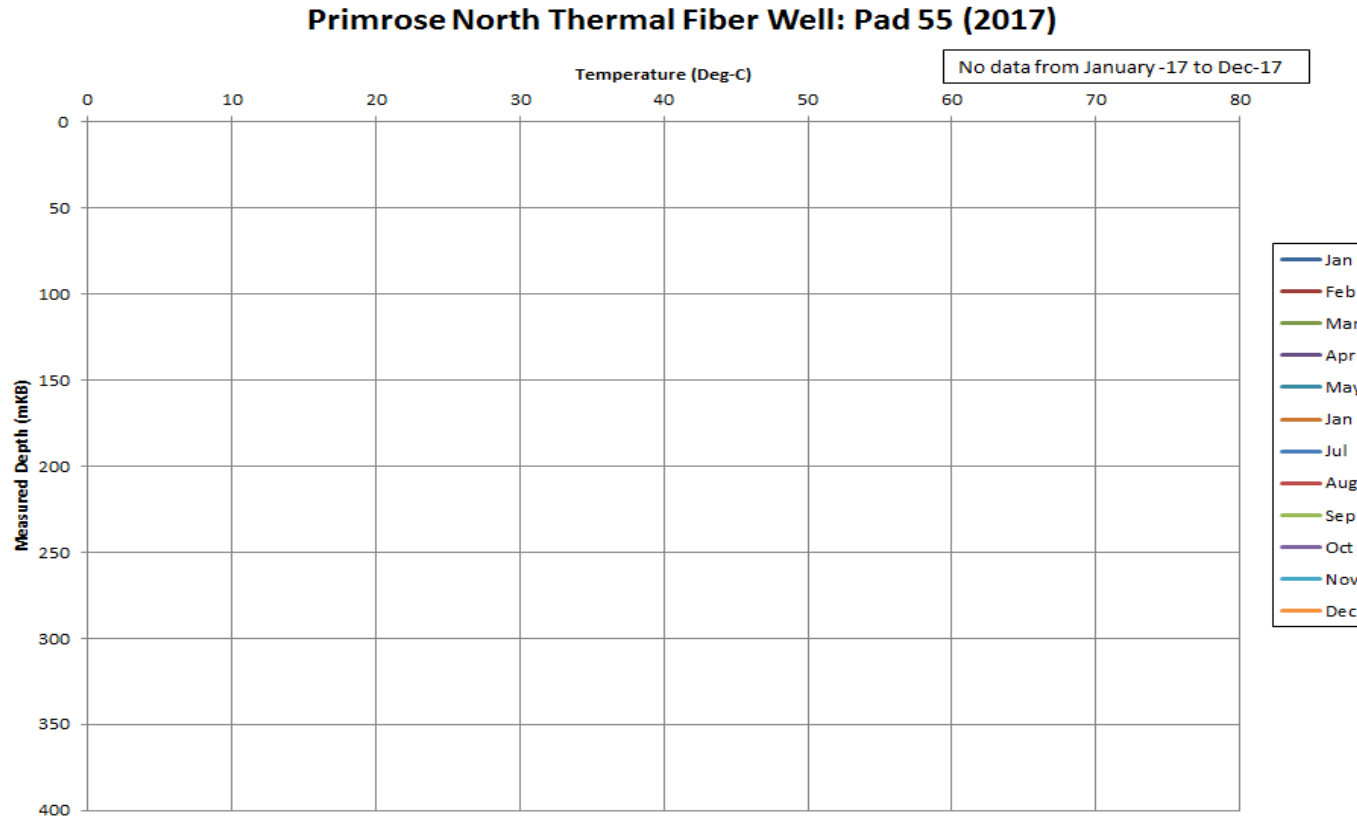
Primrose North – Phase 54

Primrose North Thermal Fiber Well: Pad 54B (2017)



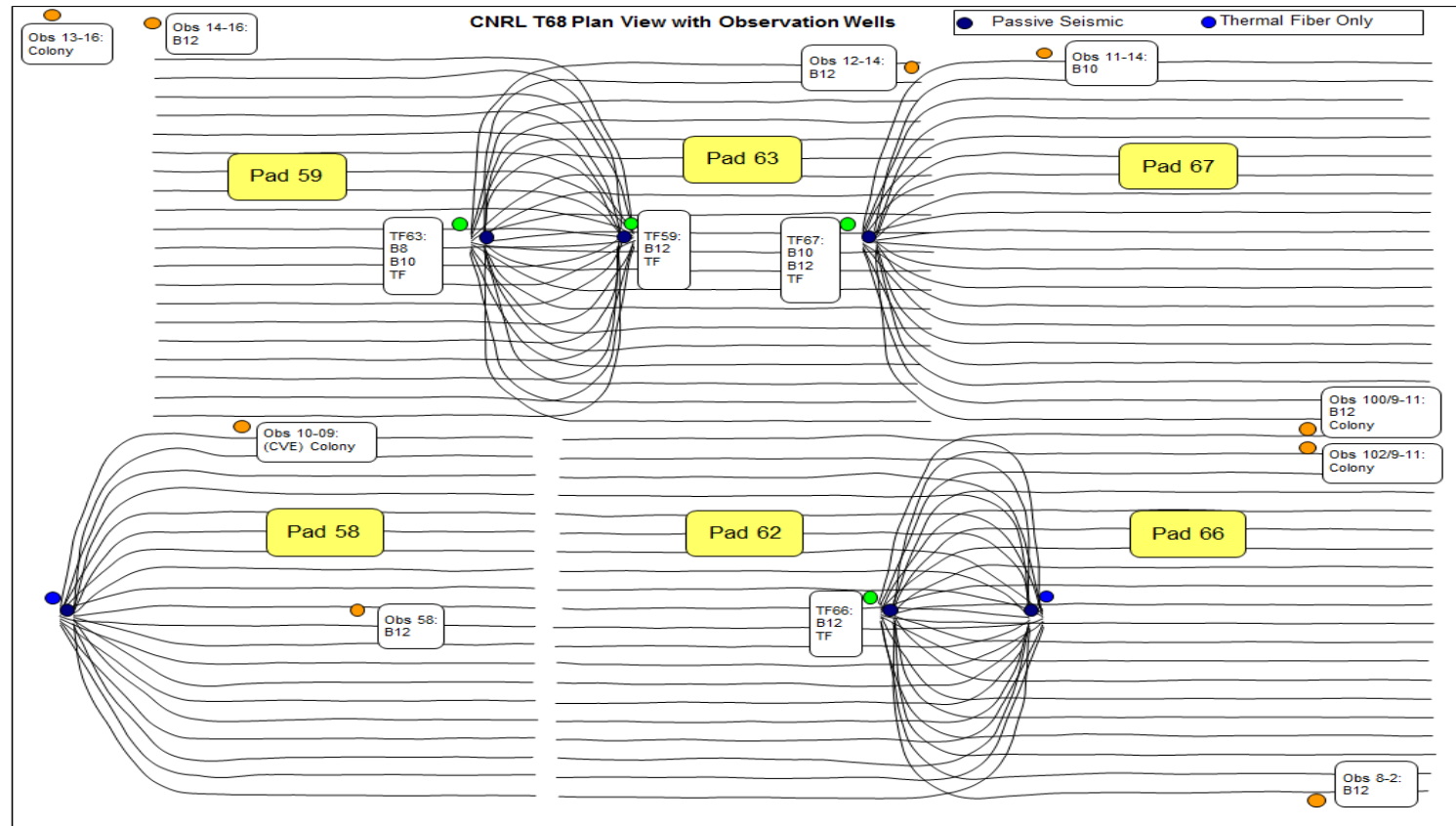
Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 55



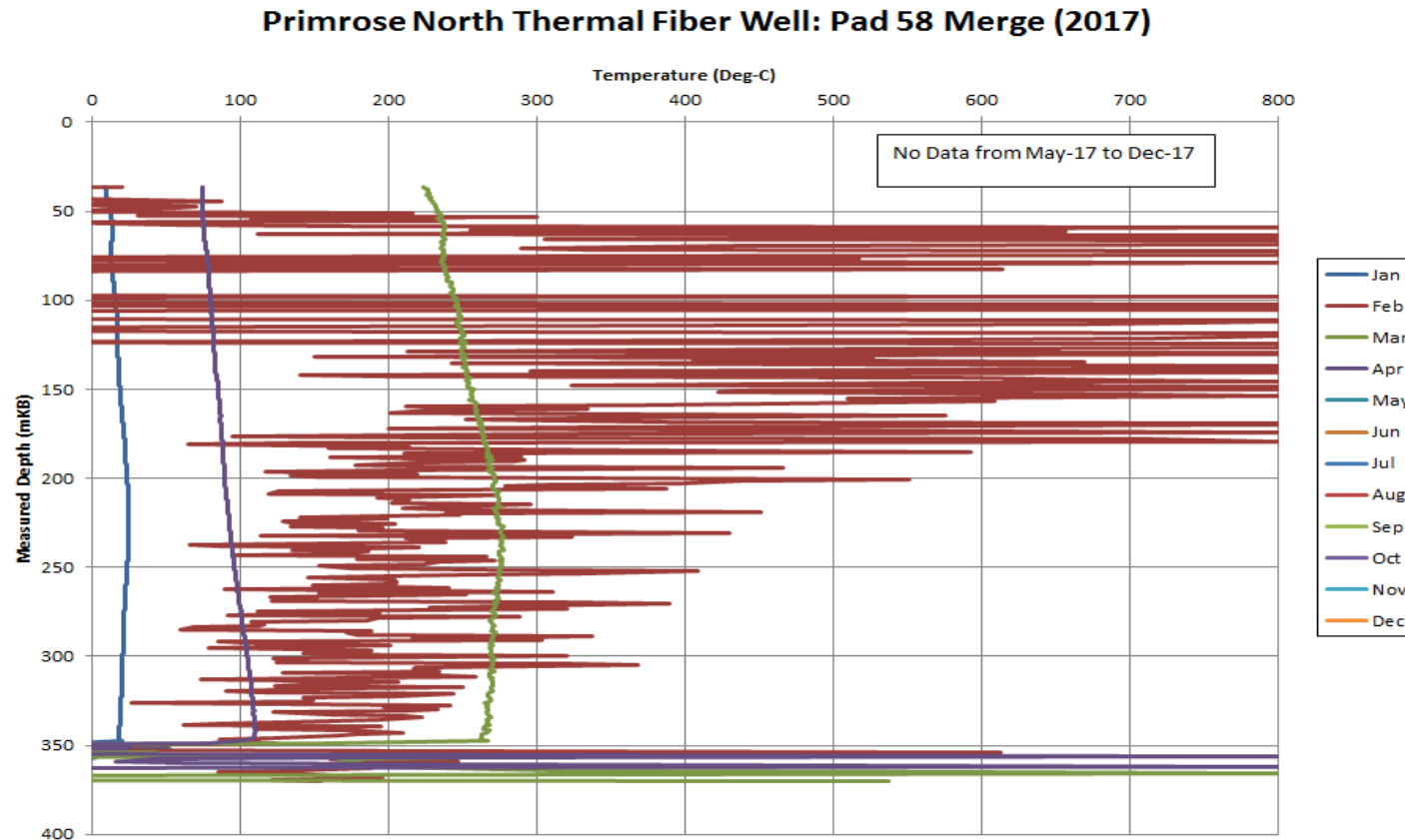
Primrose North

Phases 58,59,62,63,66,67 OBS Wells



Thermal Fiber Wells in Steamed Areas

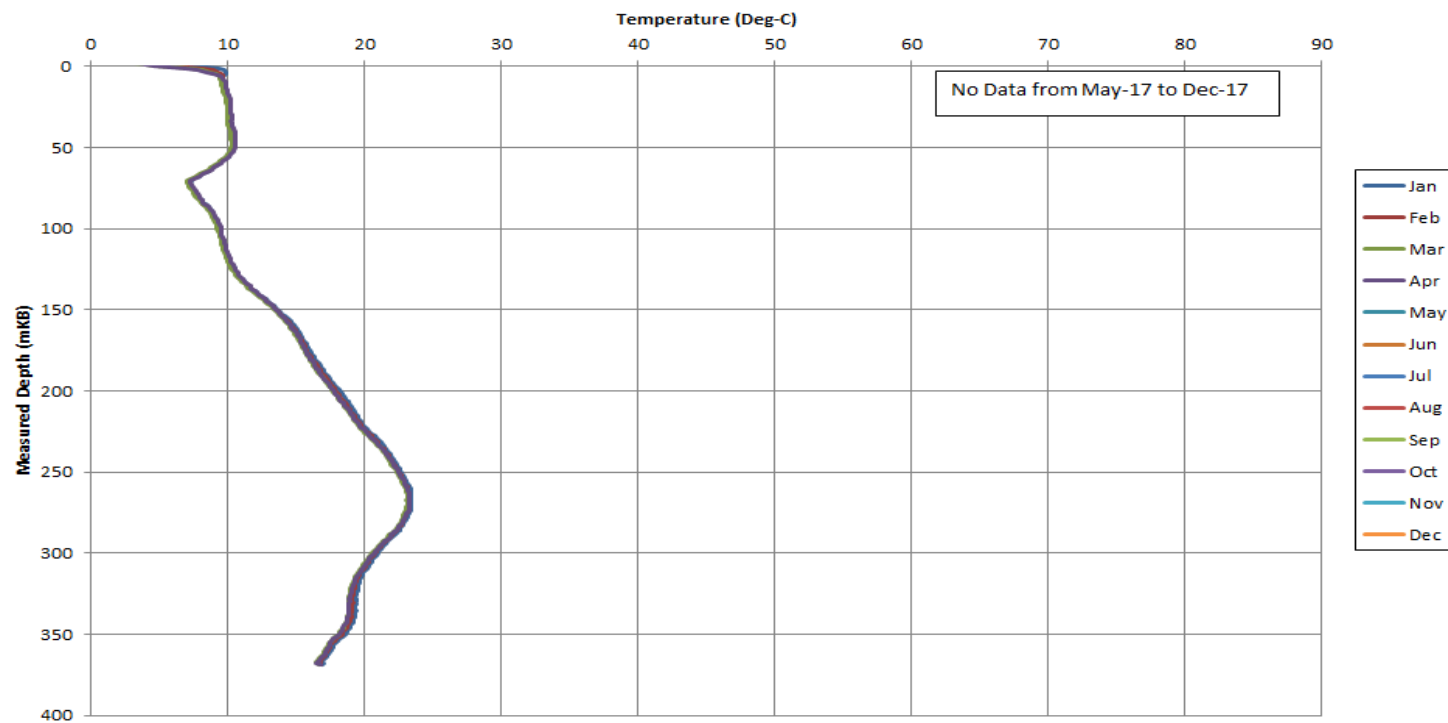
Primrose North – Phase 58



Thermal Fiber Wells in Steamed Areas

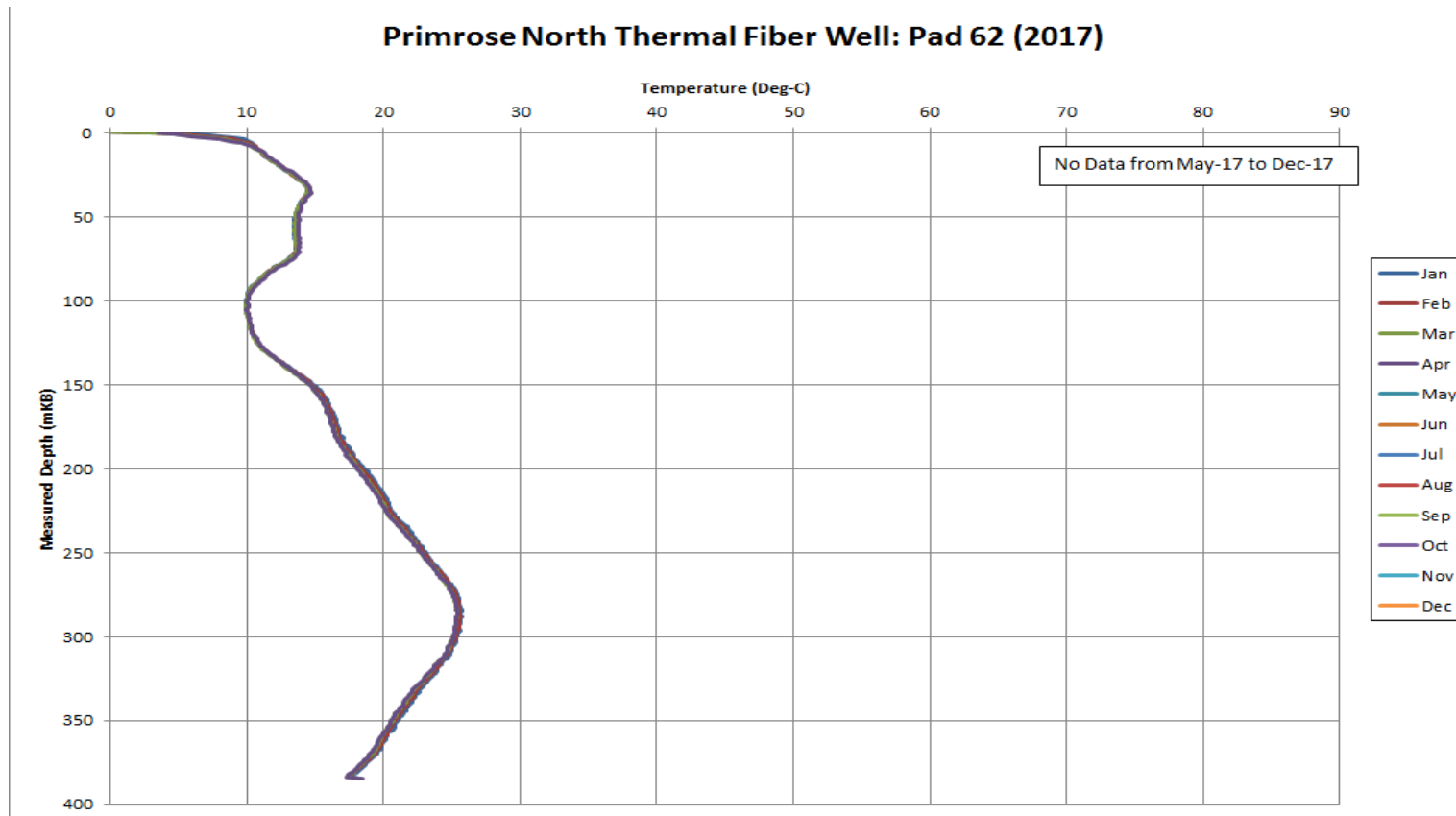
Primrose North – Phase 59

Primrose North Thermal Fiber Well: Pad 59 (2017)



Thermal Fiber Wells in Steamed Areas

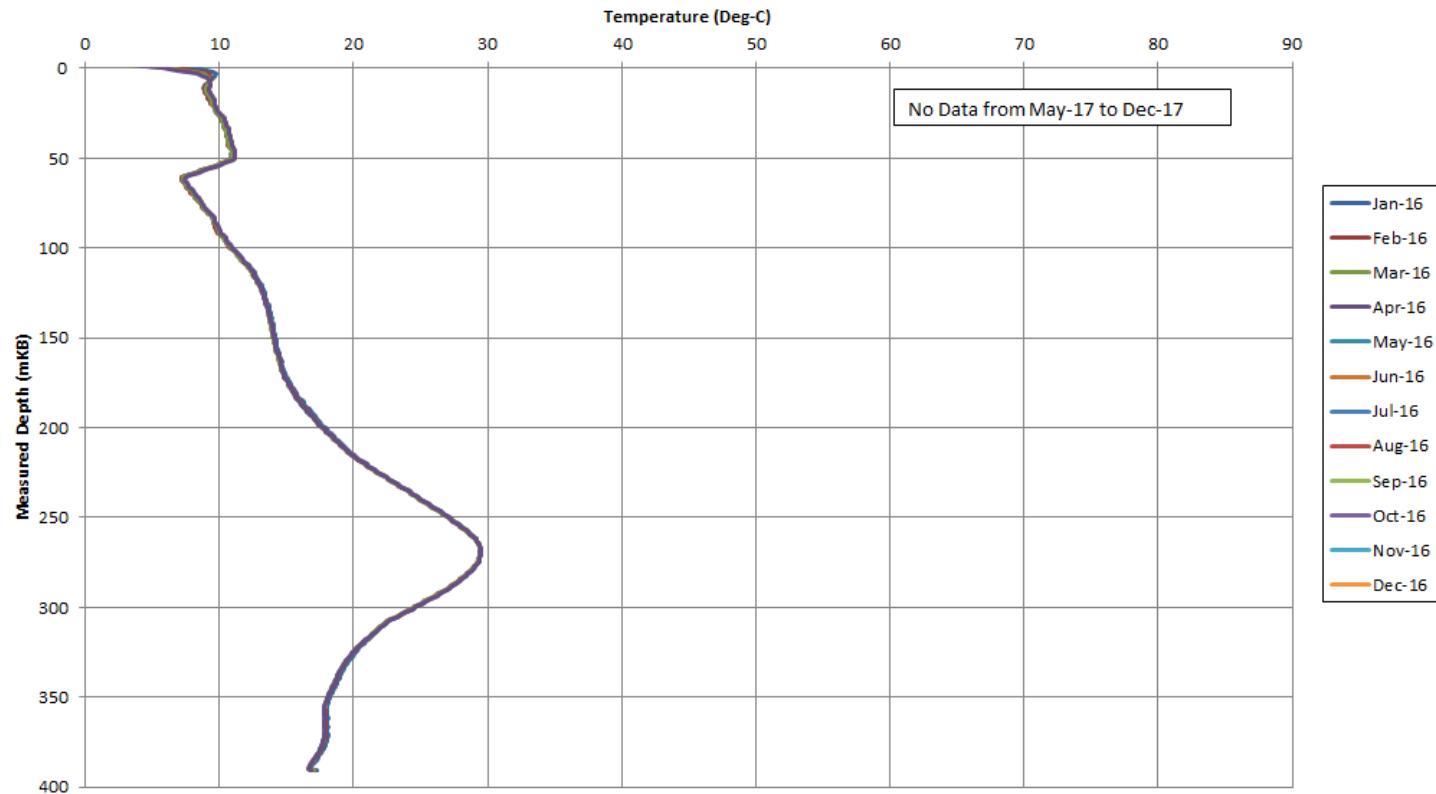
Primrose North – Phase 62



Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 63

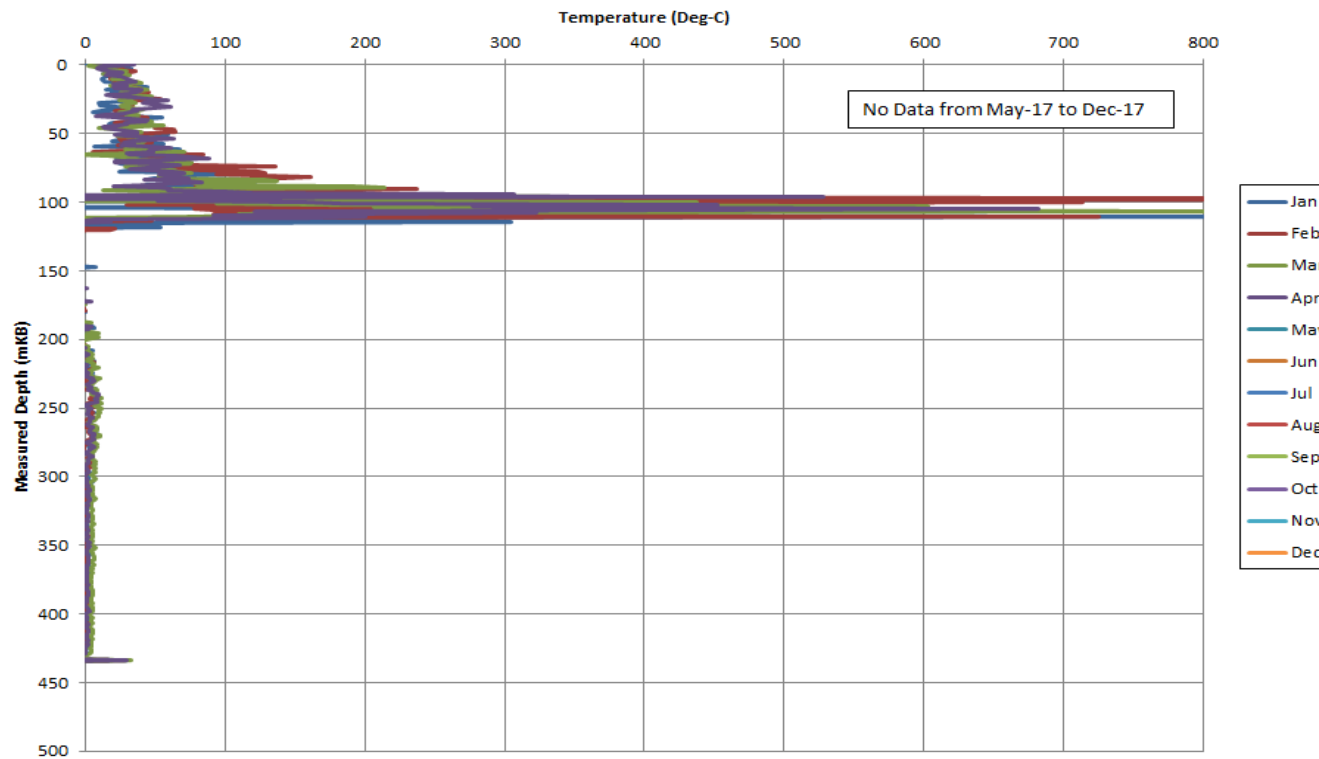
Primrose North Thermal Fiber Well: Pad 63 (2017)



Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 66

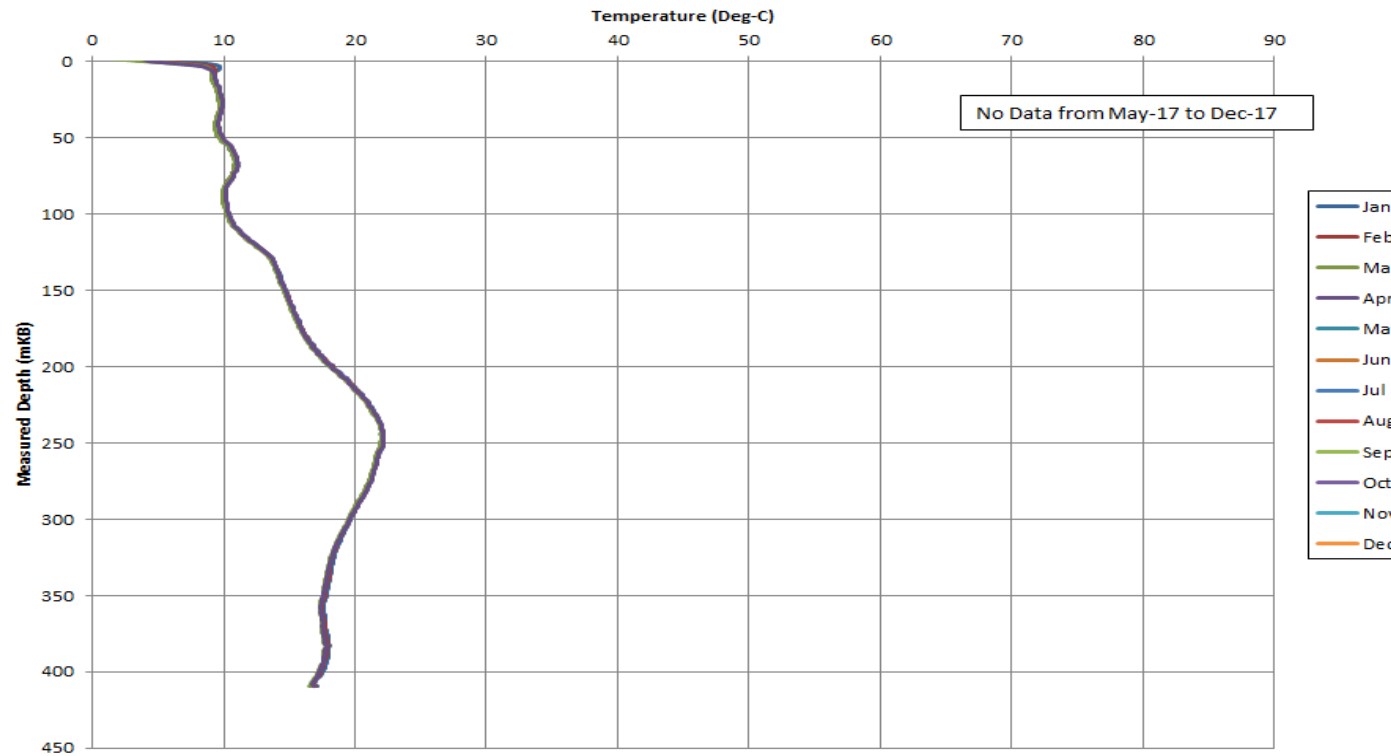
Primrose North Thermal Fiber Well: Pad 66 (2017)



Thermal Fiber Wells in Steamed Areas

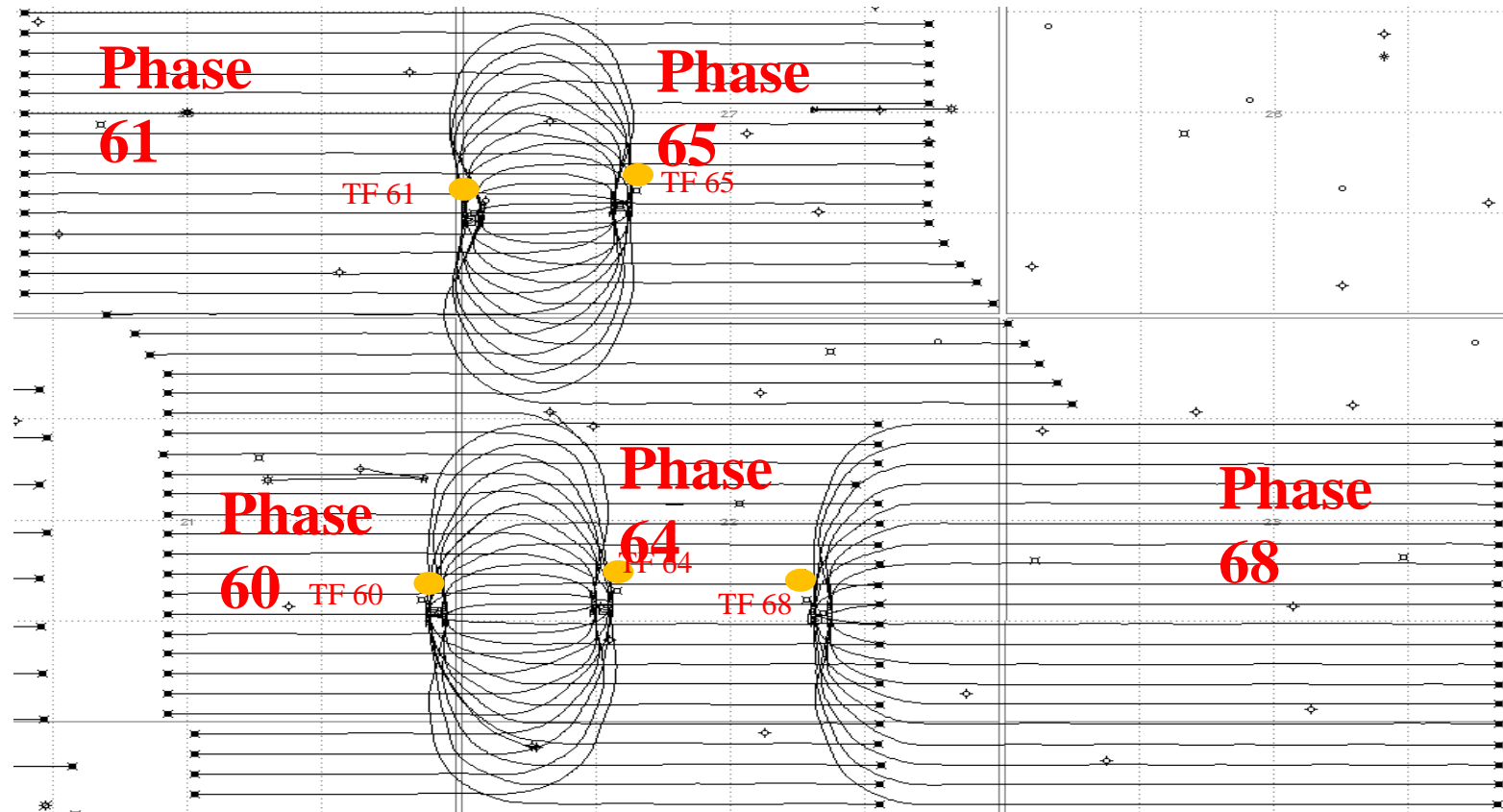
Primrose North – Phase 67

Primrose North Thermal Fiber Well: Pad 67 (2017)



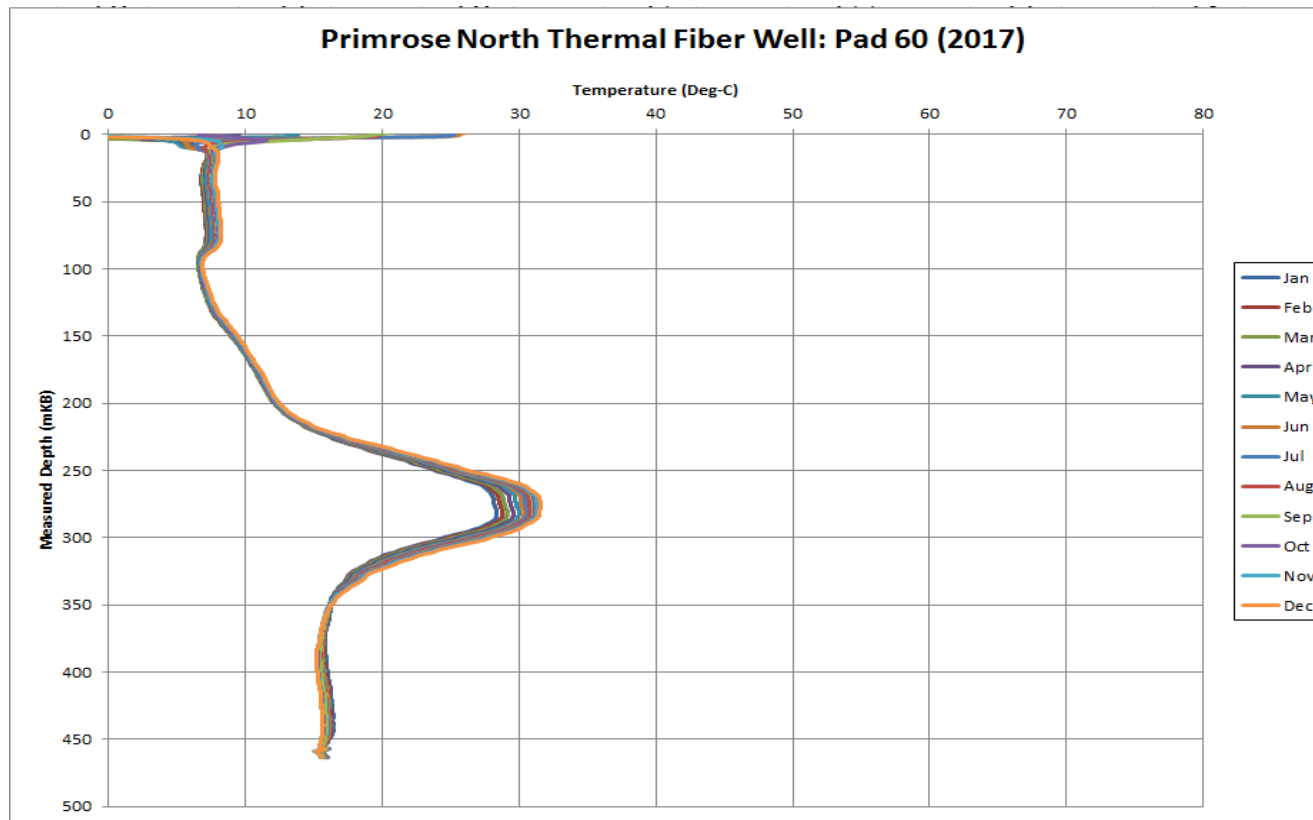
Primrose North

Phases 60,64,68 TF OBS Wells



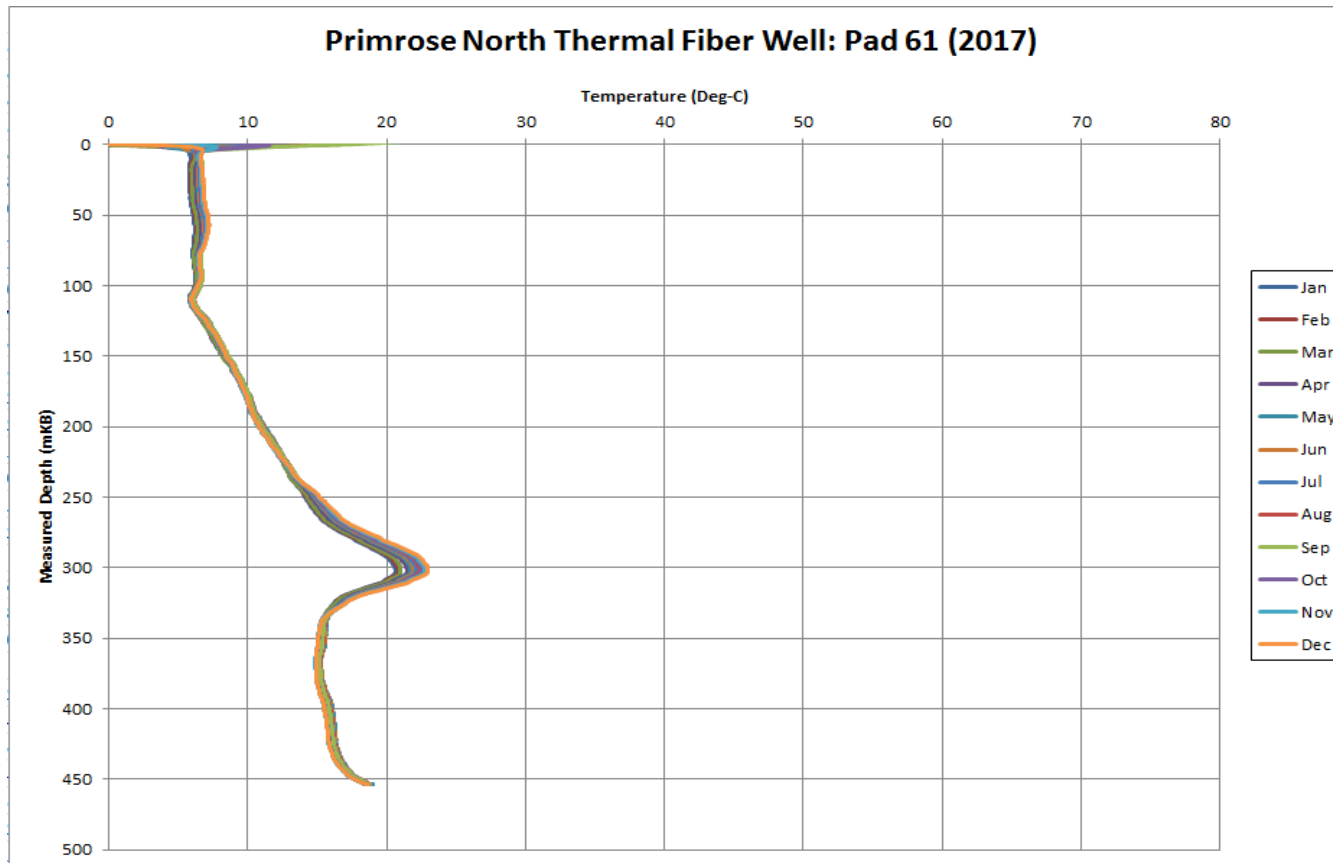
Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 60



Thermal Fiber Wells in Steamed Areas

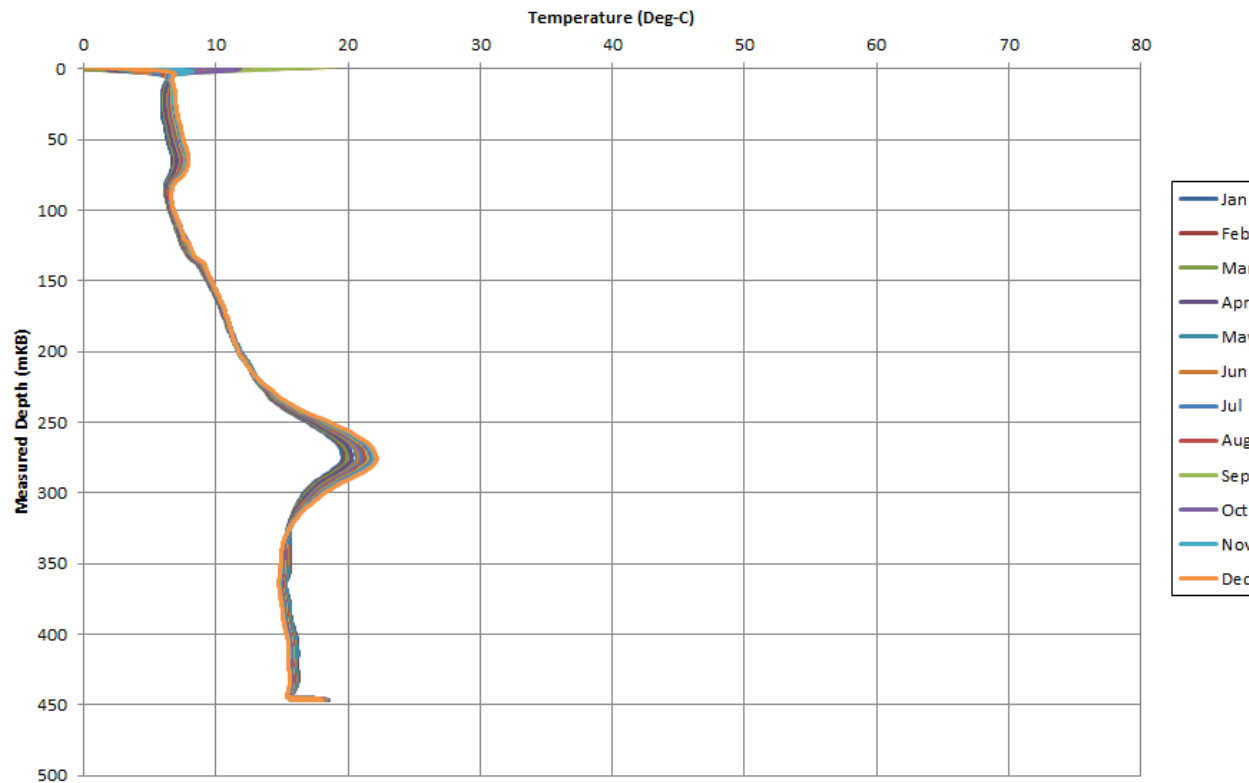
Primrose North – Phase 61



Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 64

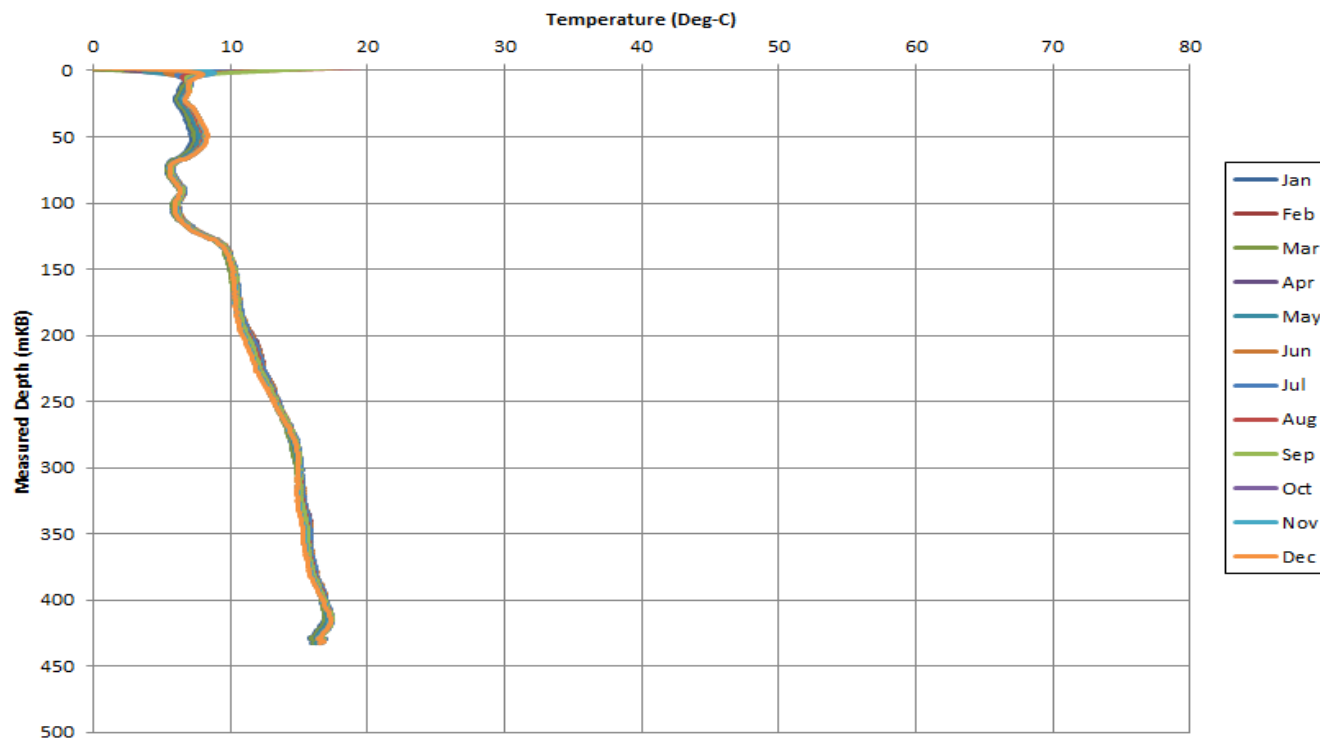
Primrose North Thermal Fiber Well: Pad 64 (2017)



Thermal Fiber Wells in Steamed Areas

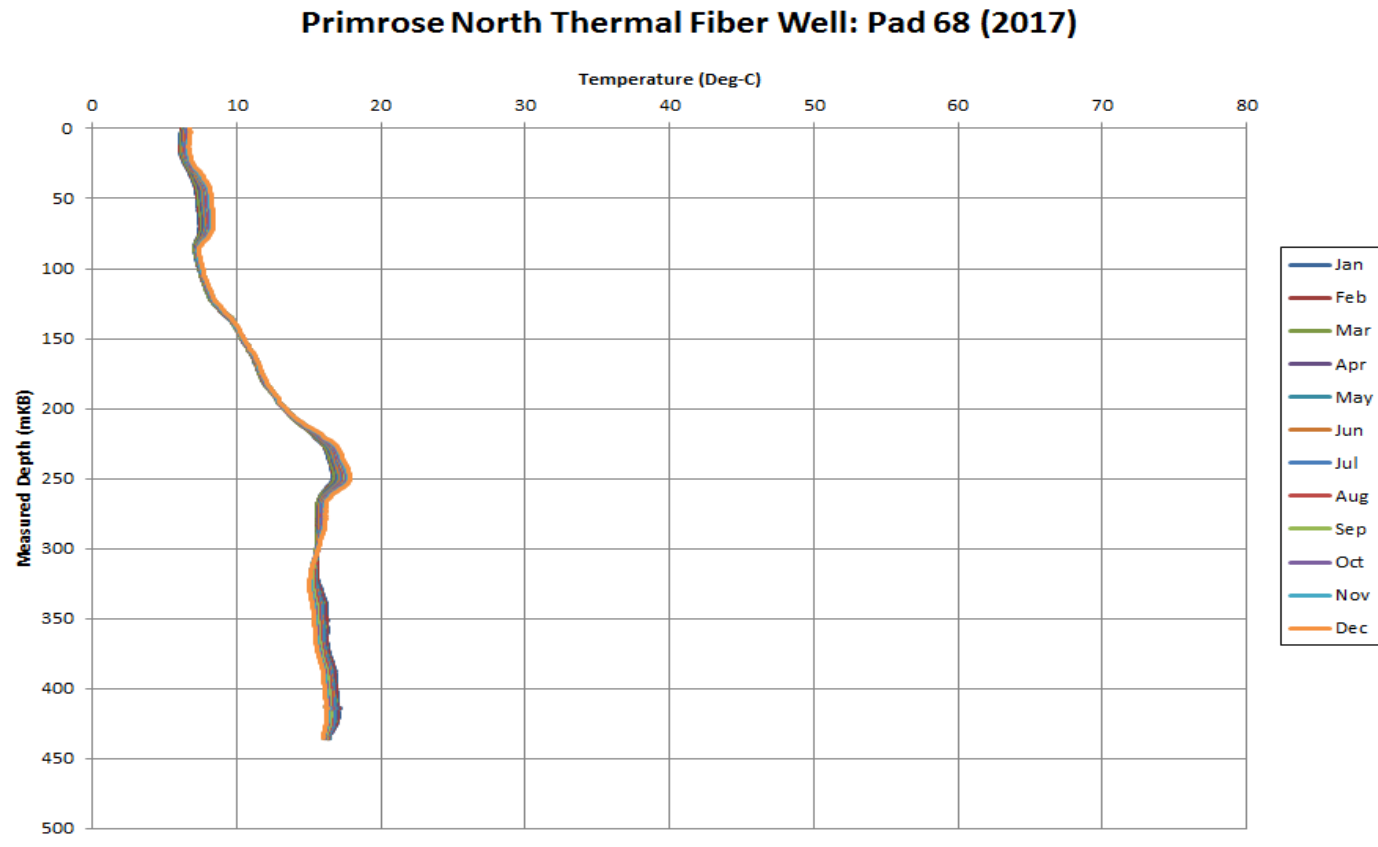
Primrose North – Phase 65

Primrose North Thermal Fiber Well: Pad 65 (2017)

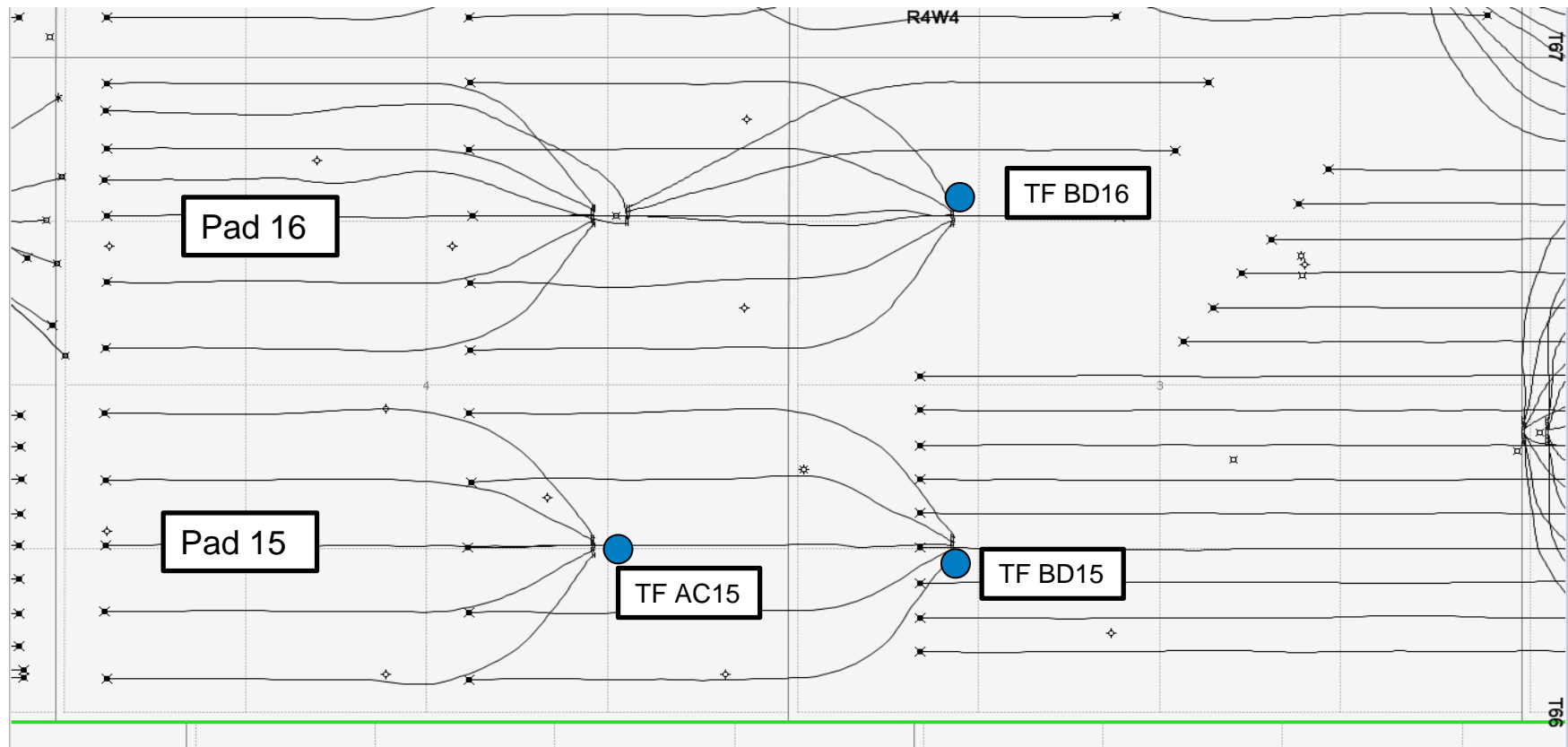


Thermal Fiber Wells in Steamed Areas

Primrose North – Phase 68



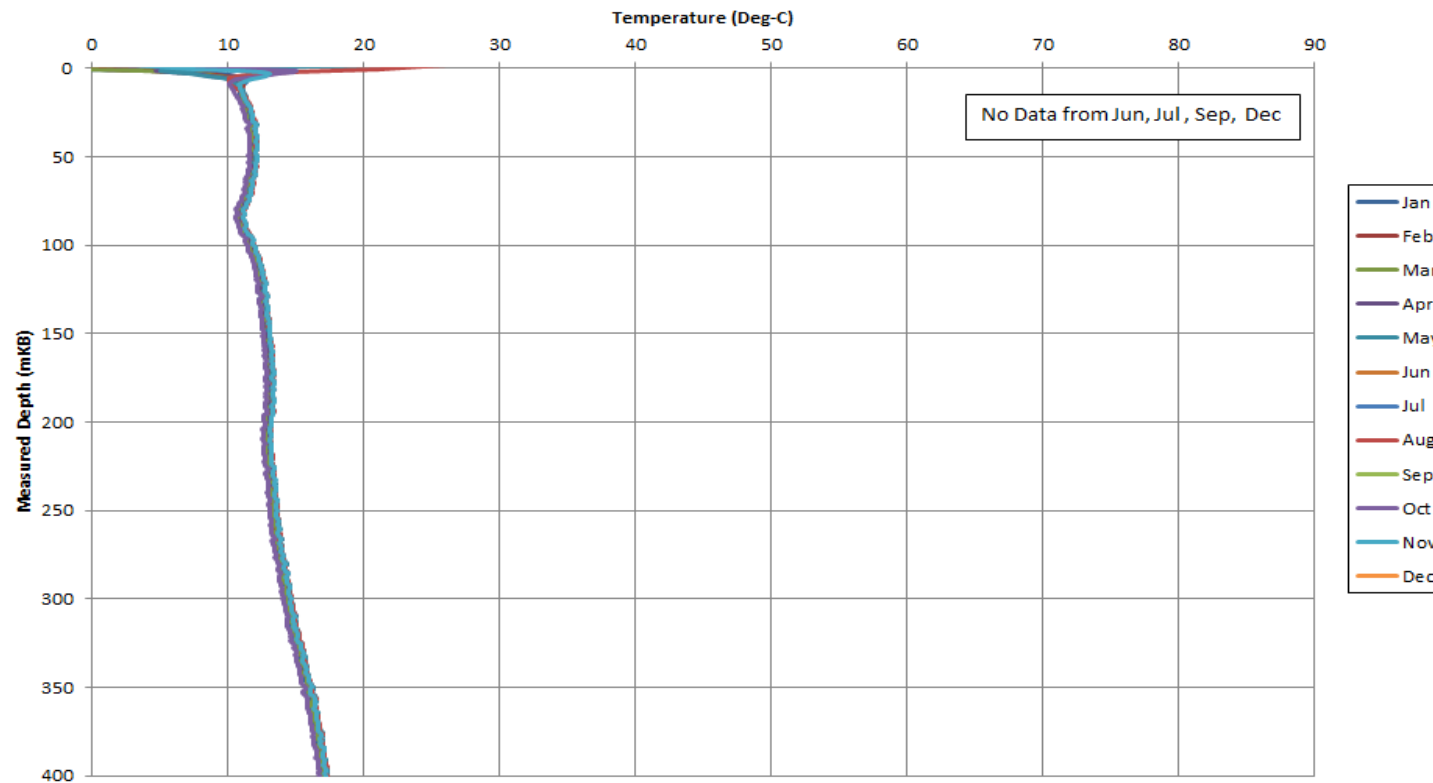
Observation Wells - Primrose South Phases 15-16



Thermal Fiber Wells in Steamed Areas

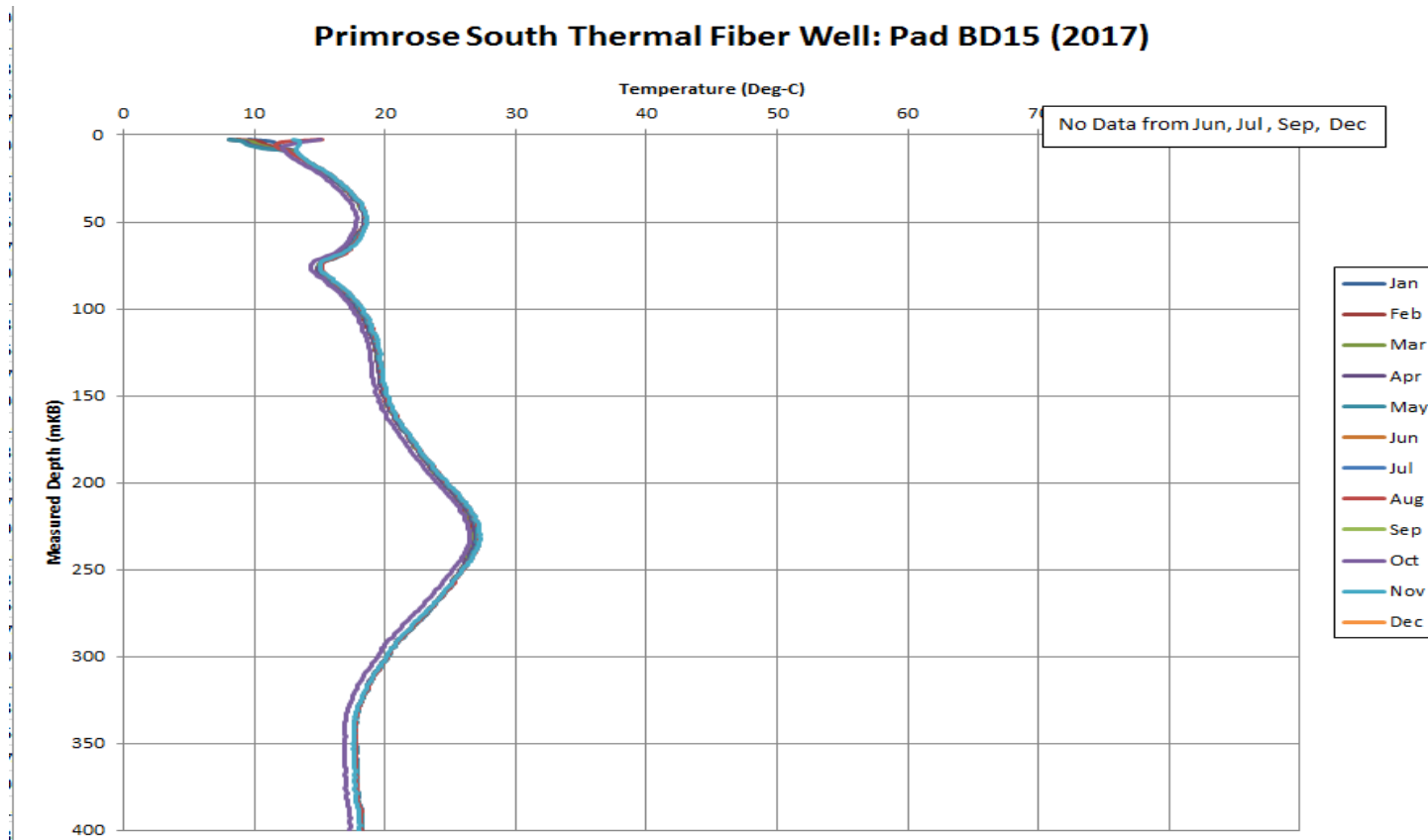
Primrose South – Phase 15

Primrose South Thermal Fiber Well: Pad AC15 (2017)



Thermal Fiber Wells in Steamed Areas

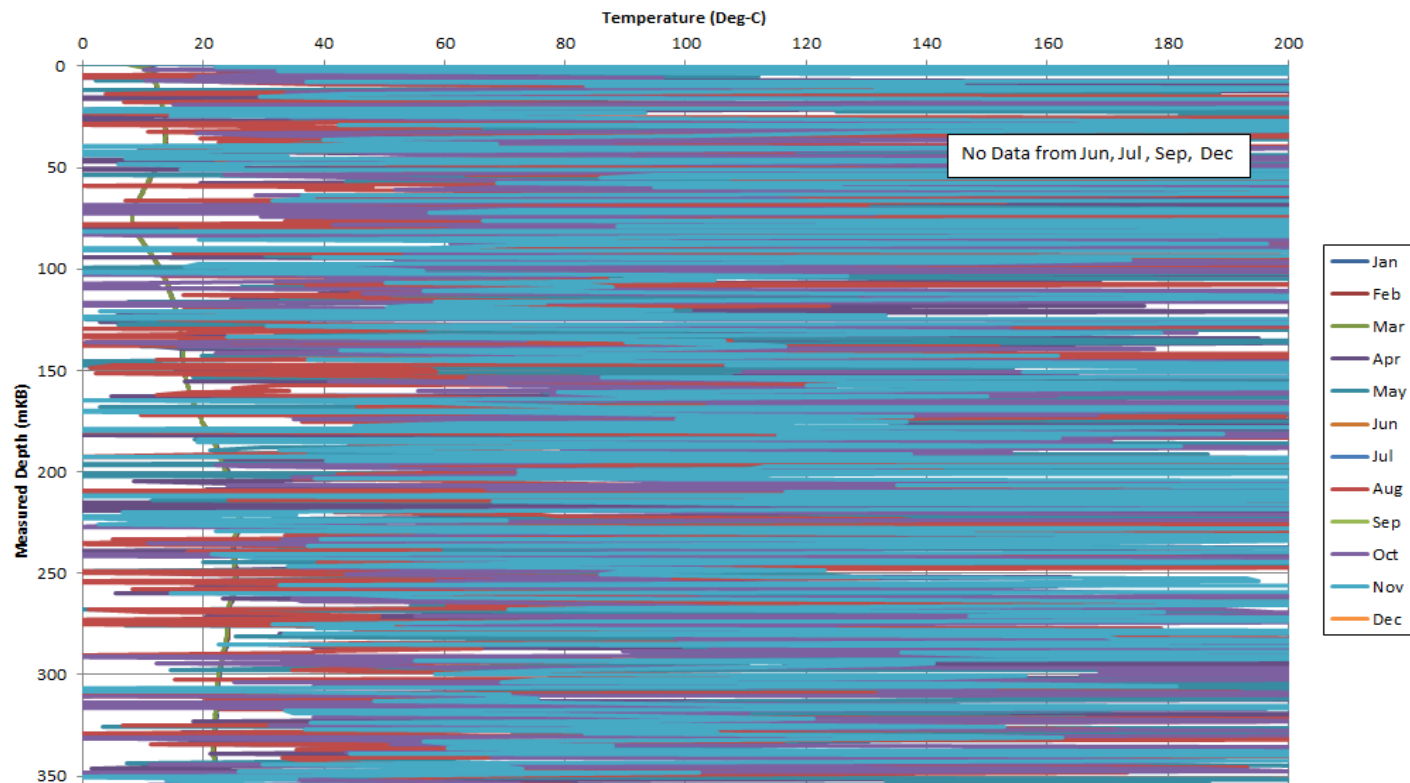
Primrose South – Phase 15



Thermal Fiber Wells in Steamed Areas

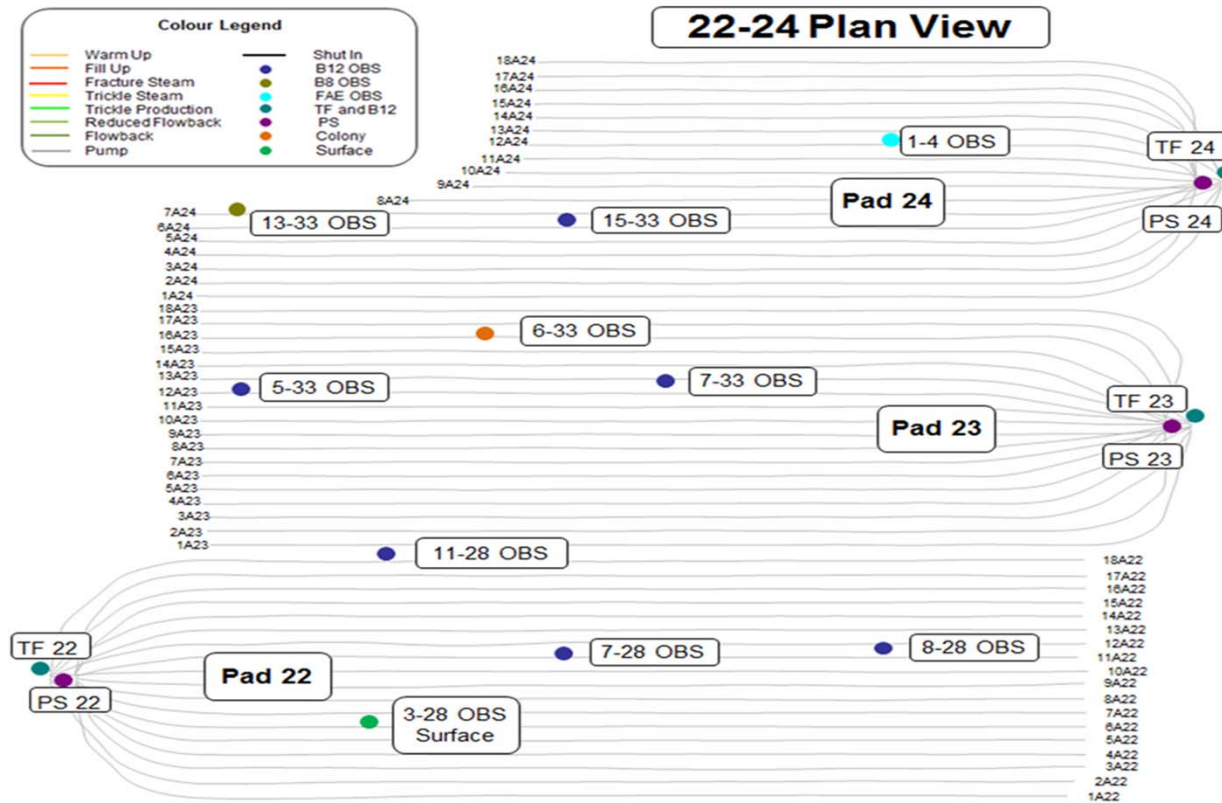
Primrose South – Phase 16

Primrose South Thermal Fiber Well: Pad BD16 (2017)



Observation Wells - Primrose South

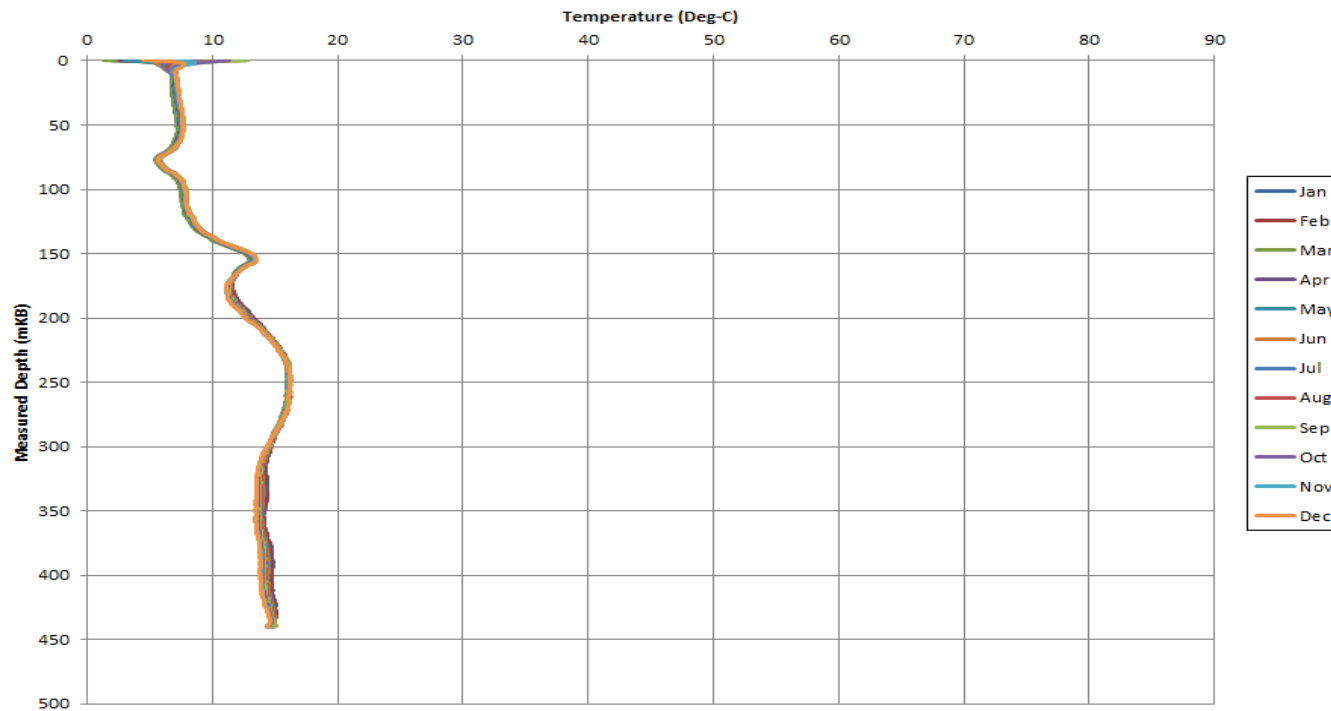
Phases 22-24



Thermal Fiber Wells in Steamed Areas

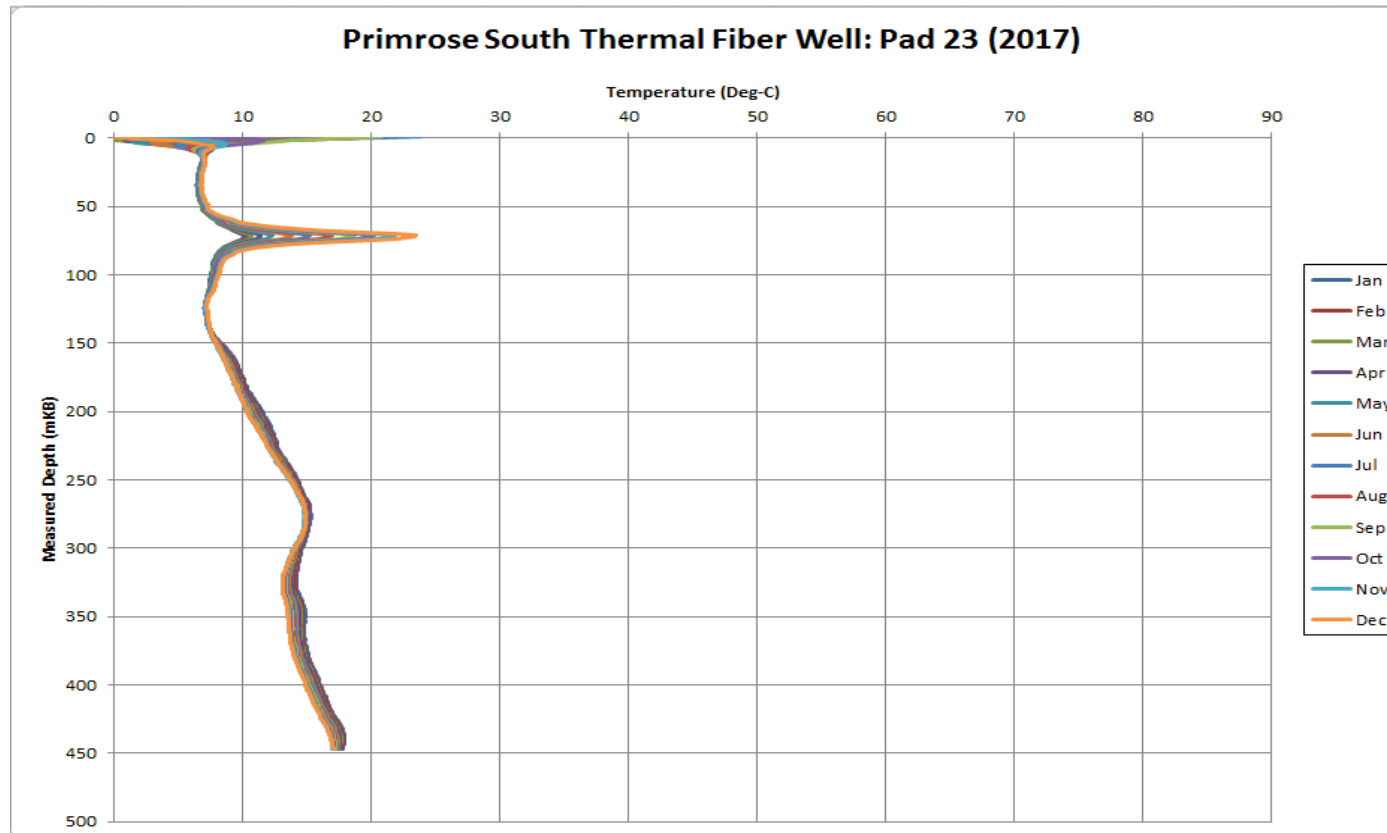
Primrose South – Phase 22

Primrose South Thermal Fiber Well: Pad 22 (2017)



Thermal Fiber Wells in Steamed Areas

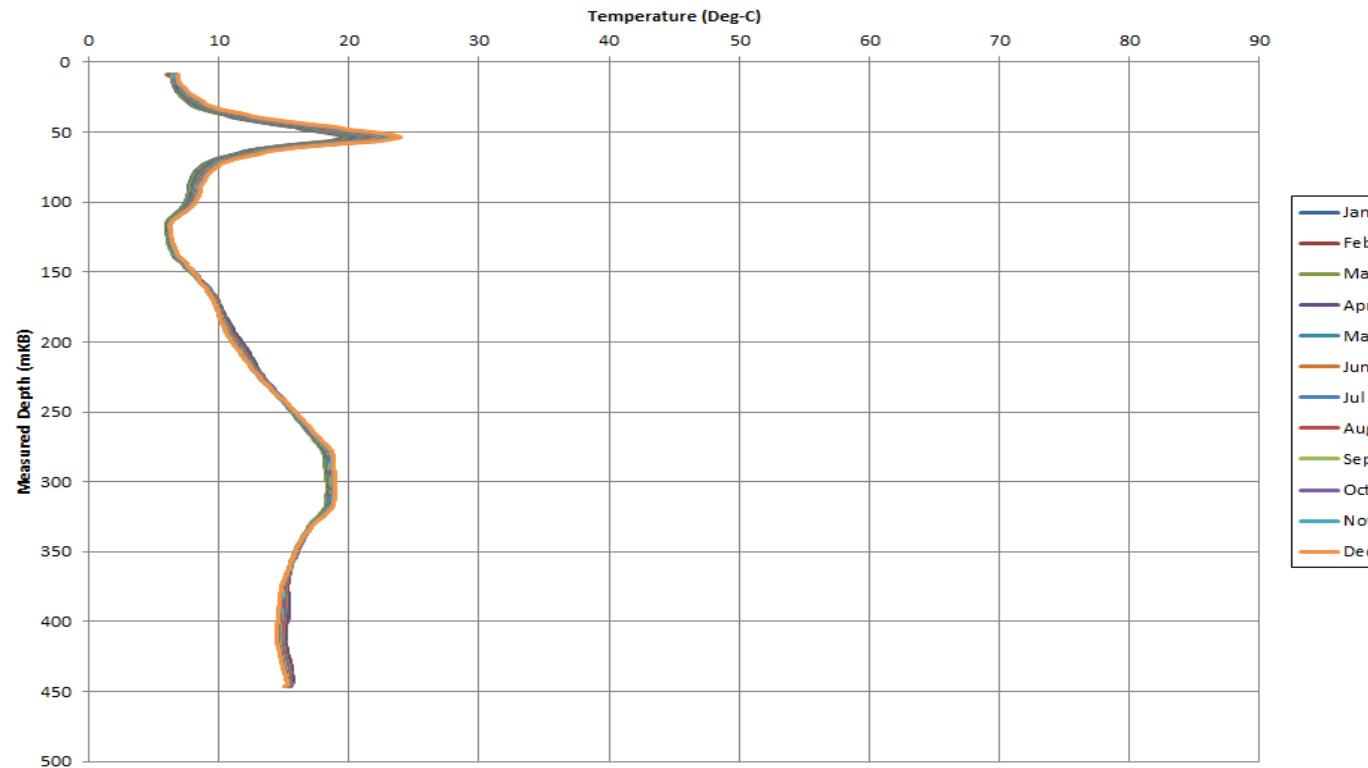
Primrose South – Phase 23



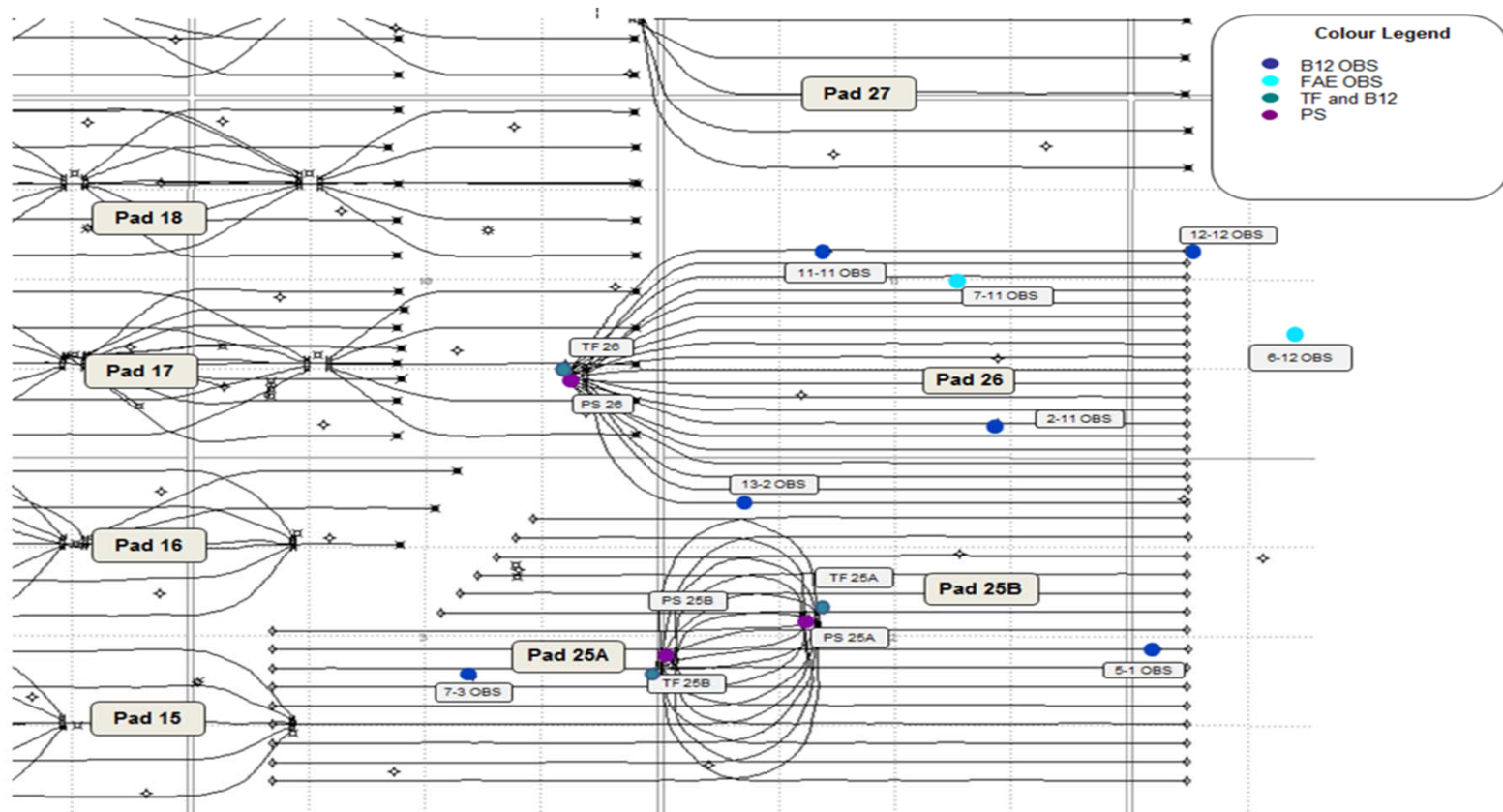
Thermal Fiber Wells in Steamed Areas

Primrose South – Phase 24

Primrose South Thermal Fiber Well: Pad 24 (2017)

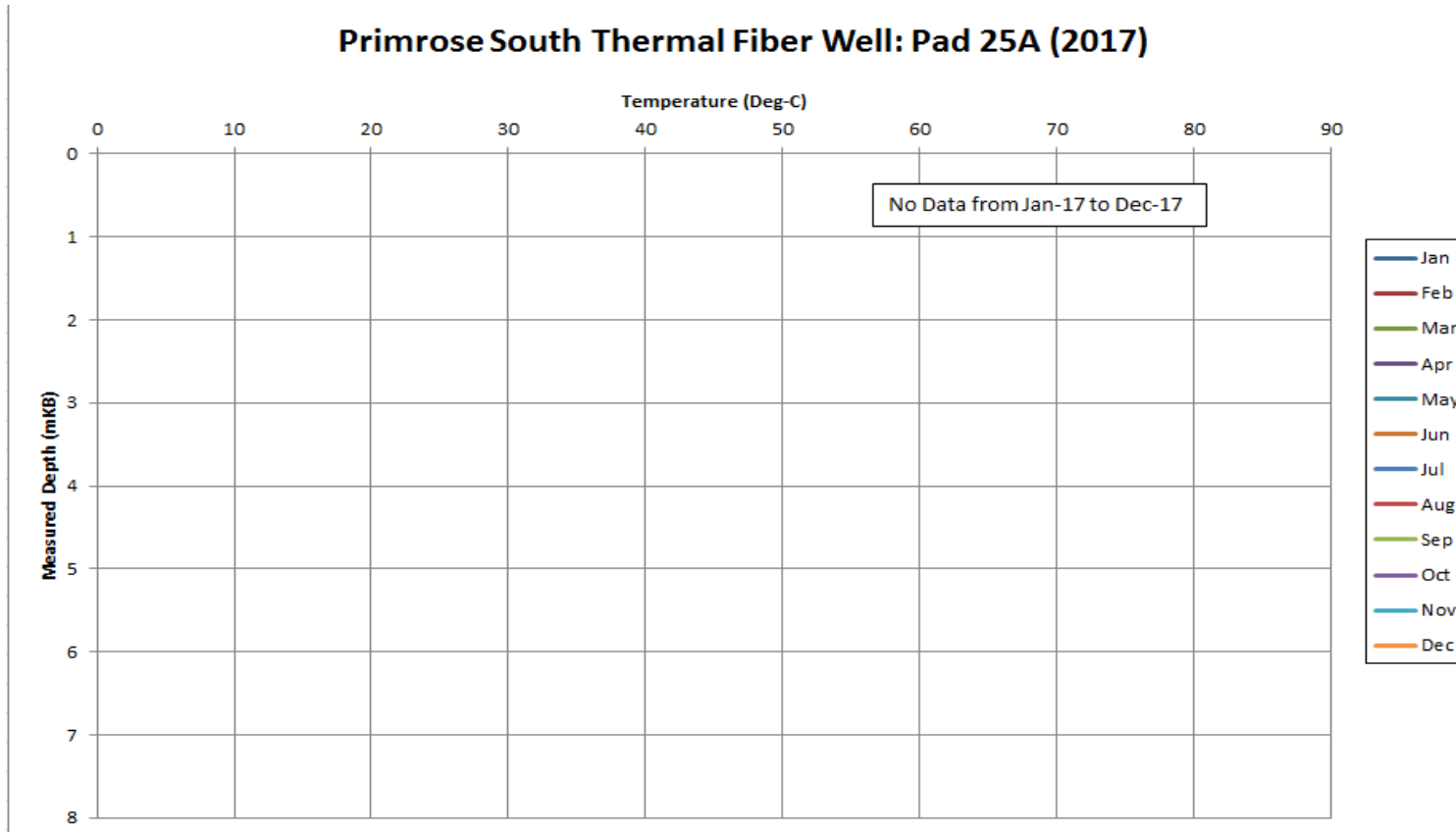


Observation Wells - Primrose South Phases 25A/B-26



Thermal Fiber Wells in Steamed Areas

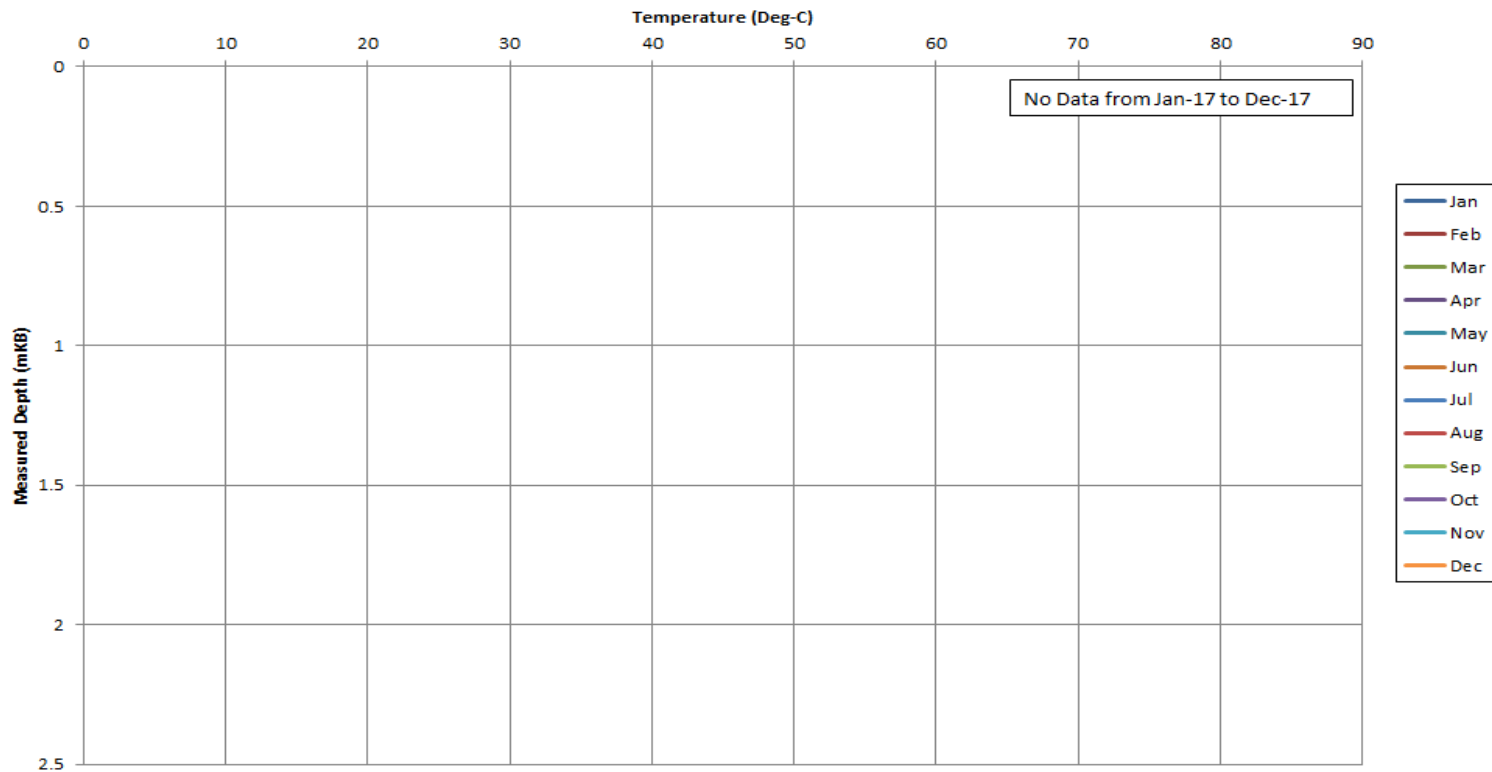
Primrose South – Phase 25A



Thermal Fiber Wells in Steamed Areas

Primrose South – Phase 25B

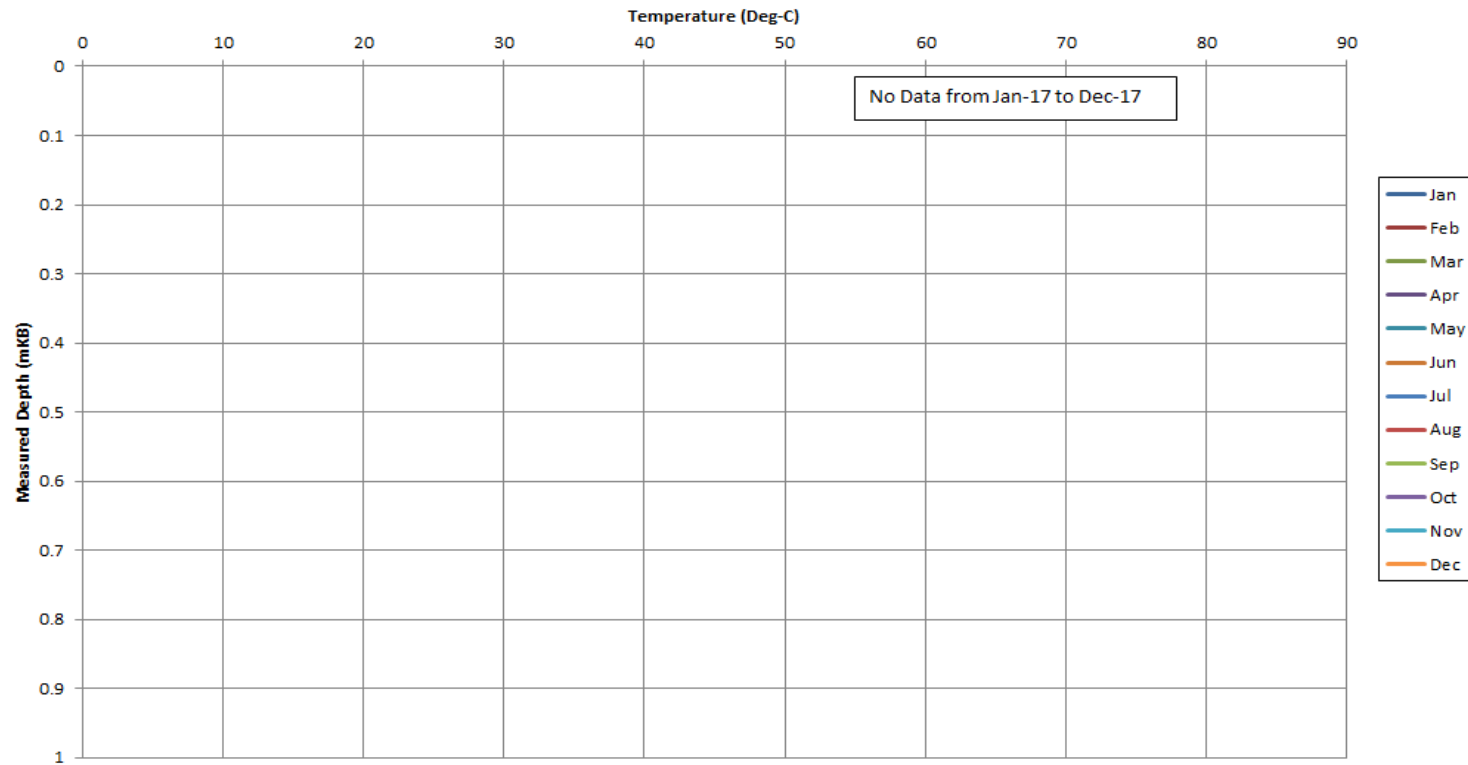
Primrose South Thermal Fiber Well: Pad 25B (2017)



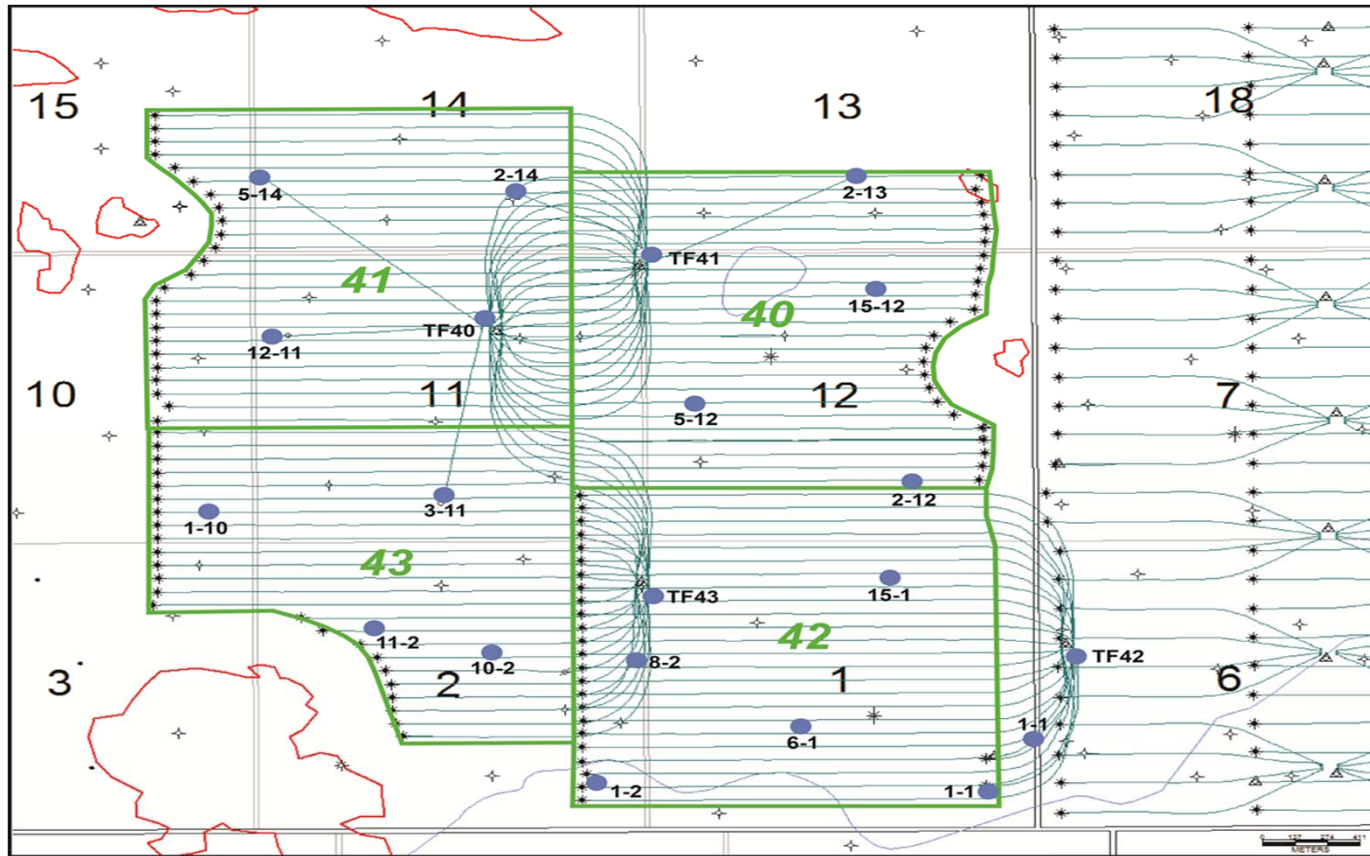
Thermal Fiber Wells in Steamed Areas

Primrose South – Phase 26

Primrose South Thermal Fiber Well: Pad 26 (2017)

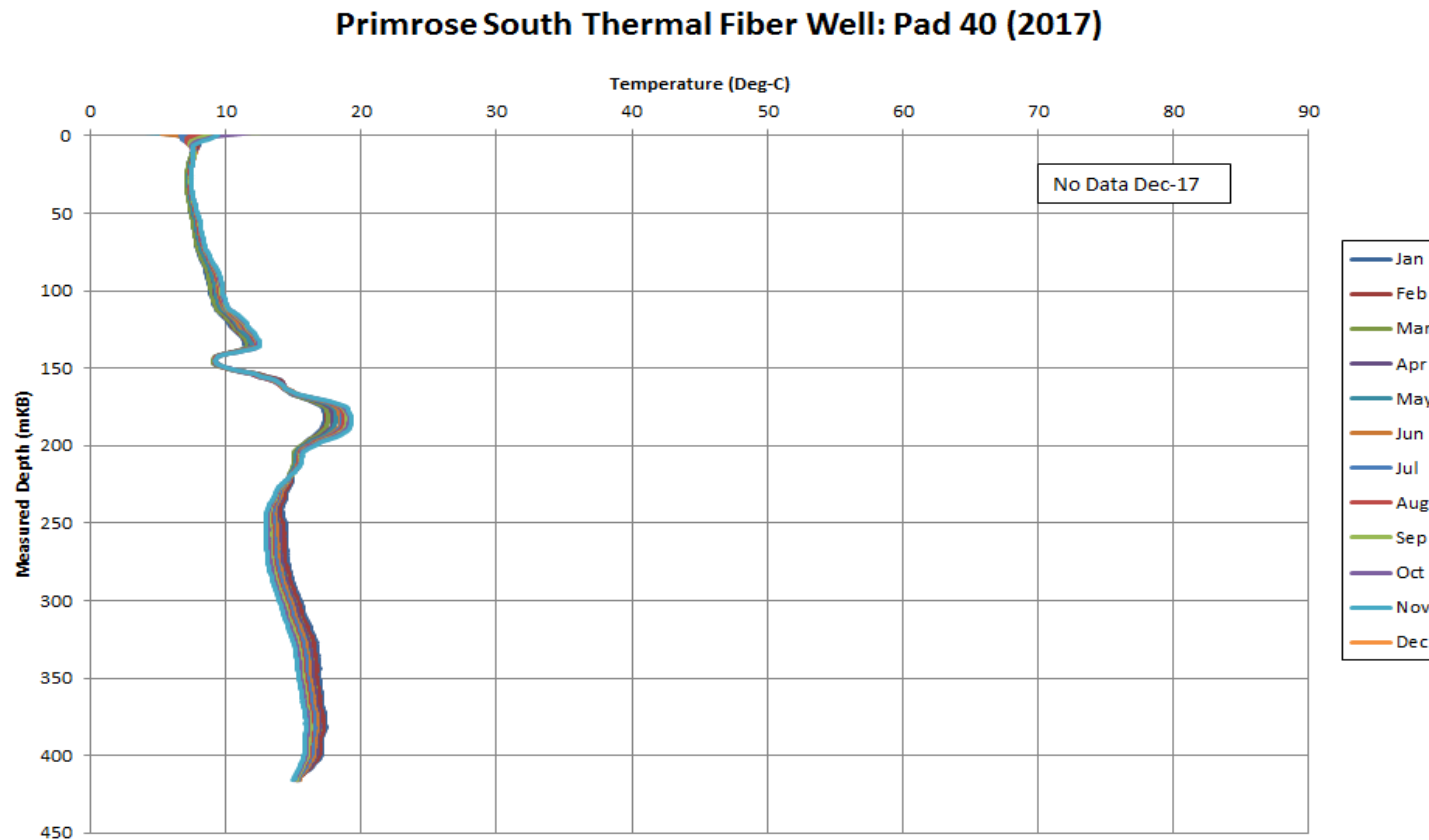


Observation Wells - Primrose South Phases 40-43



Thermal Fiber Wells in Steamed Areas

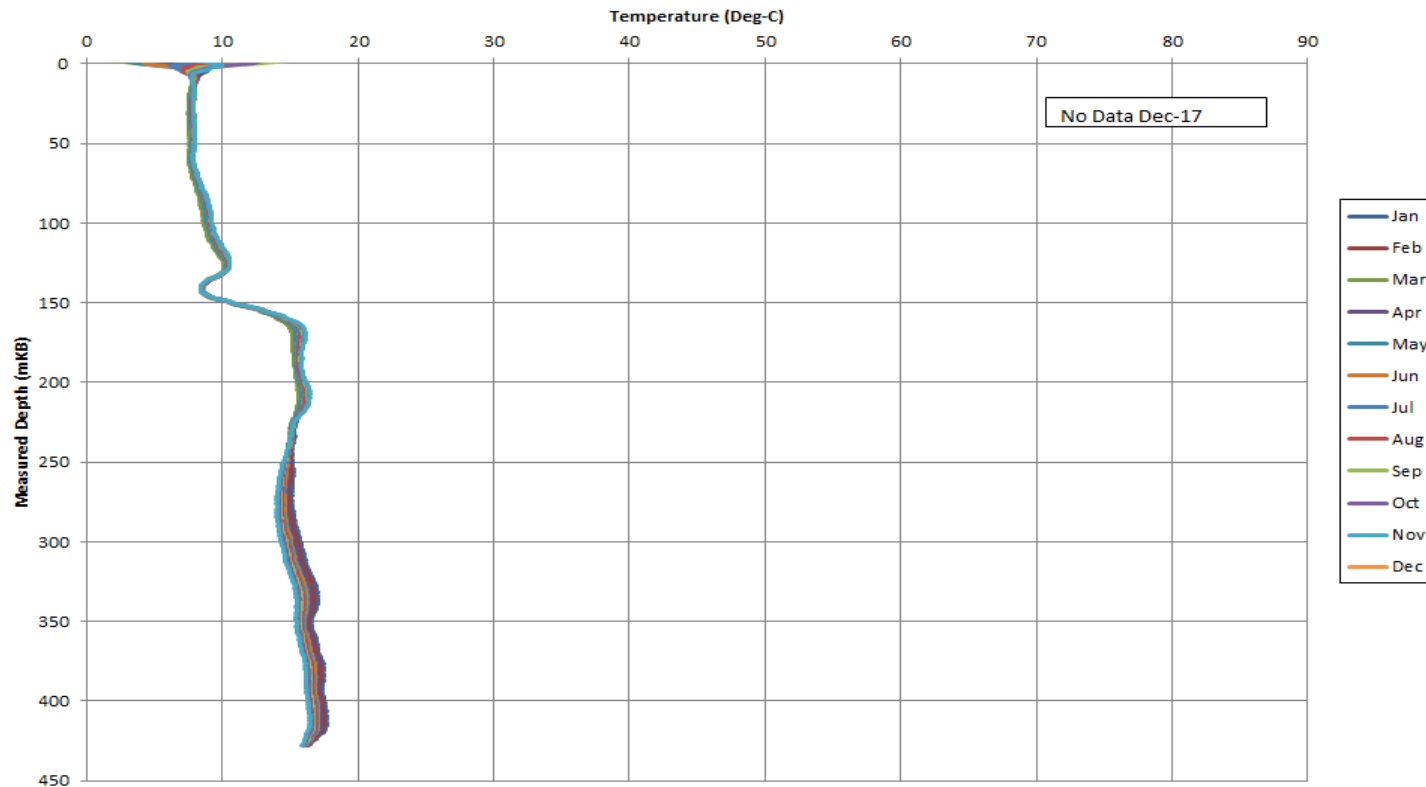
Primrose South – Phase 40



Thermal Fiber Wells in Steamed Areas

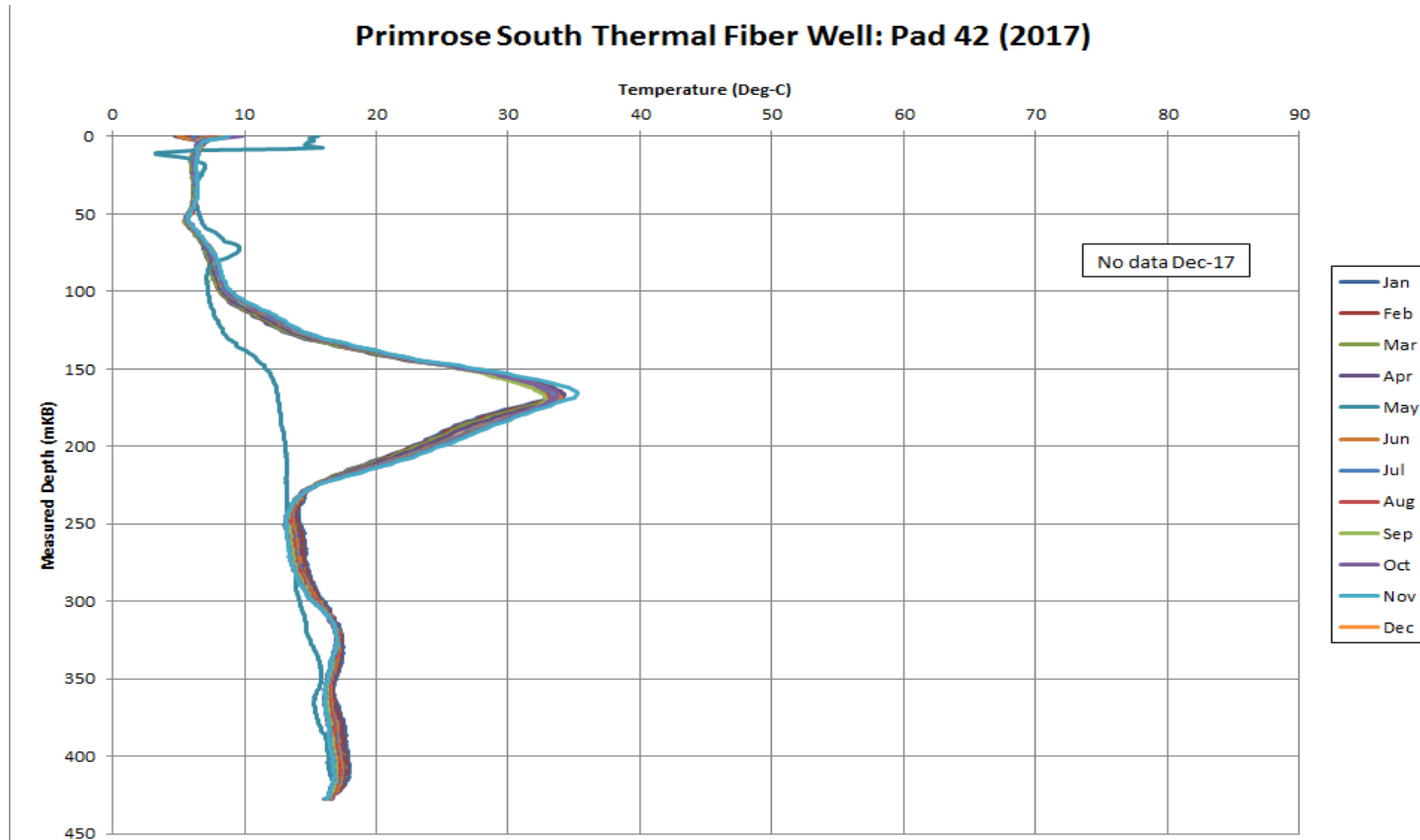
Primrose South – Phase 41

Primrose South Thermal Fiber Well: Pad 41 (2017)



Thermal Fiber Wells in Steamed Areas

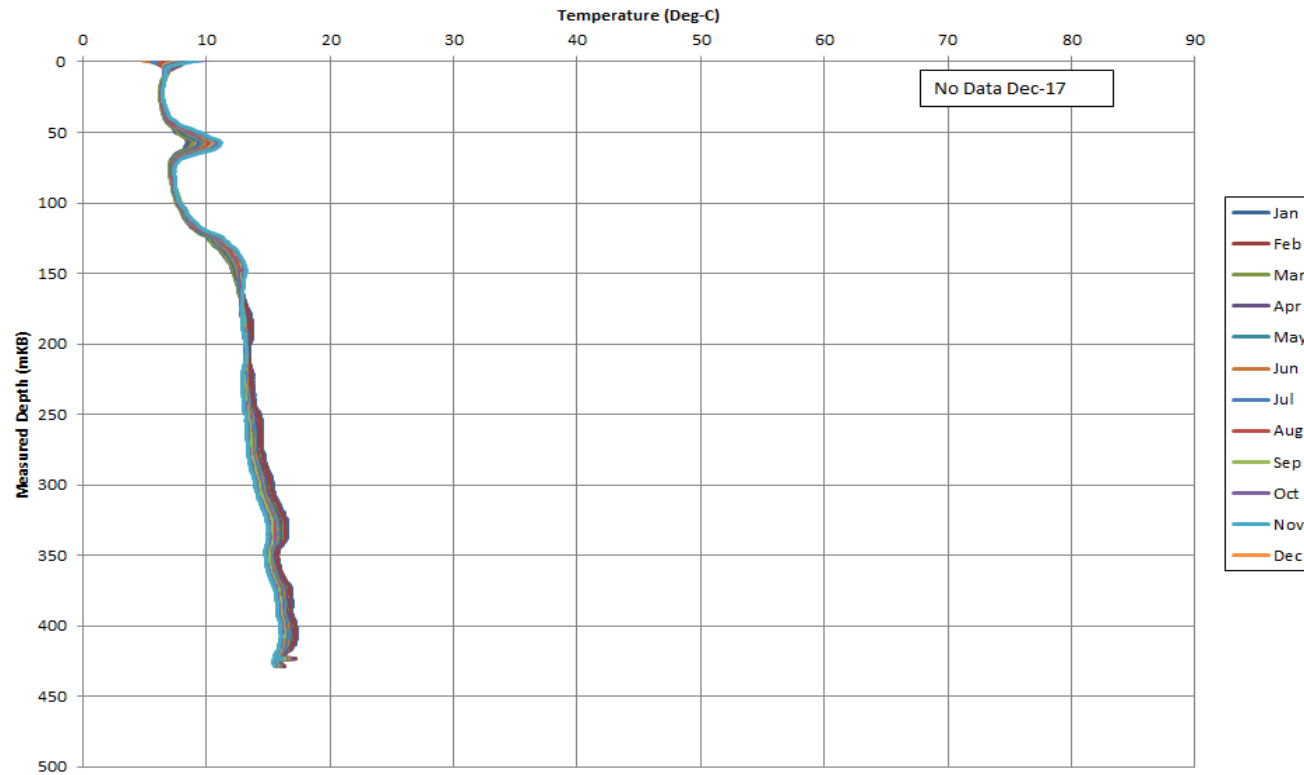
Primrose South – Phase 42



Thermal Fiber Wells in Steamed Areas

Primrose South – Phase 43

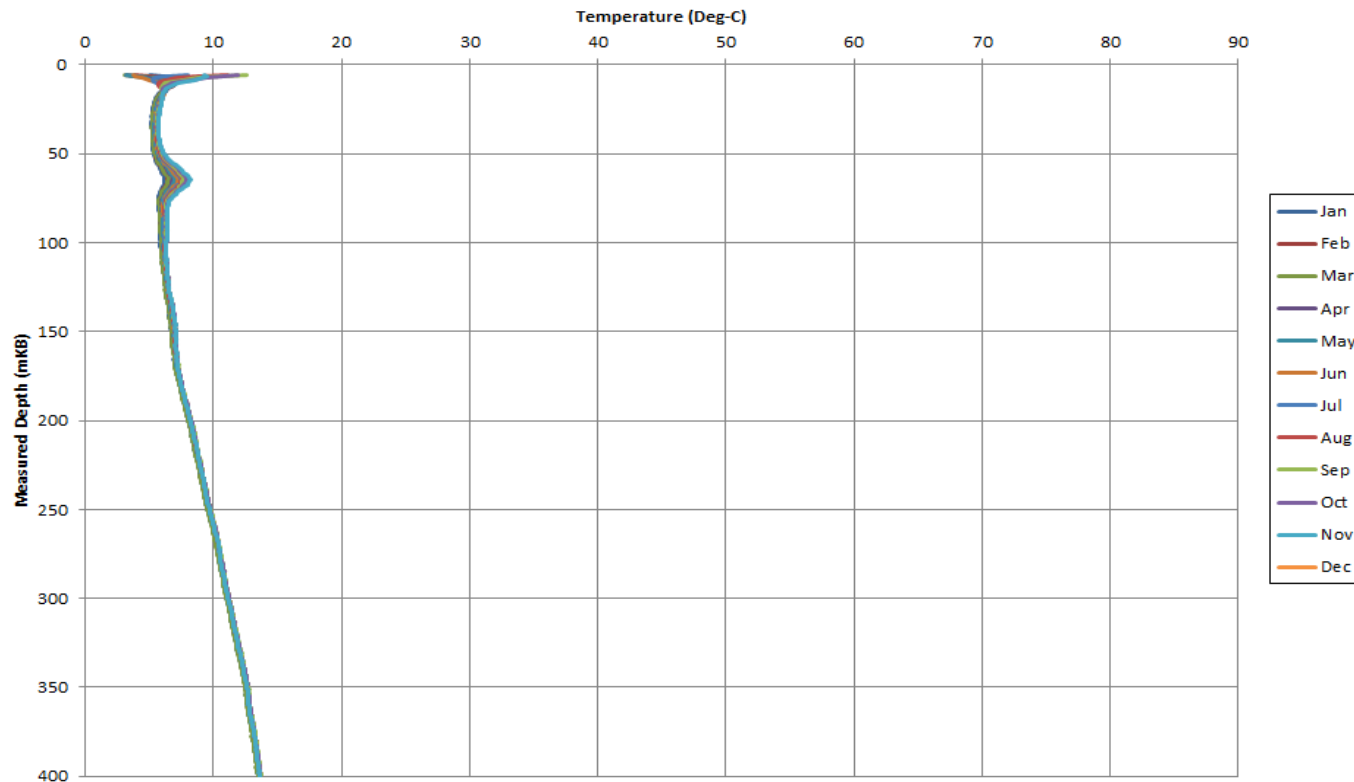
Primrose South Thermal Fiber Well: Pad 43 (2017)



Thermal Fiber Wells in Steamed Areas

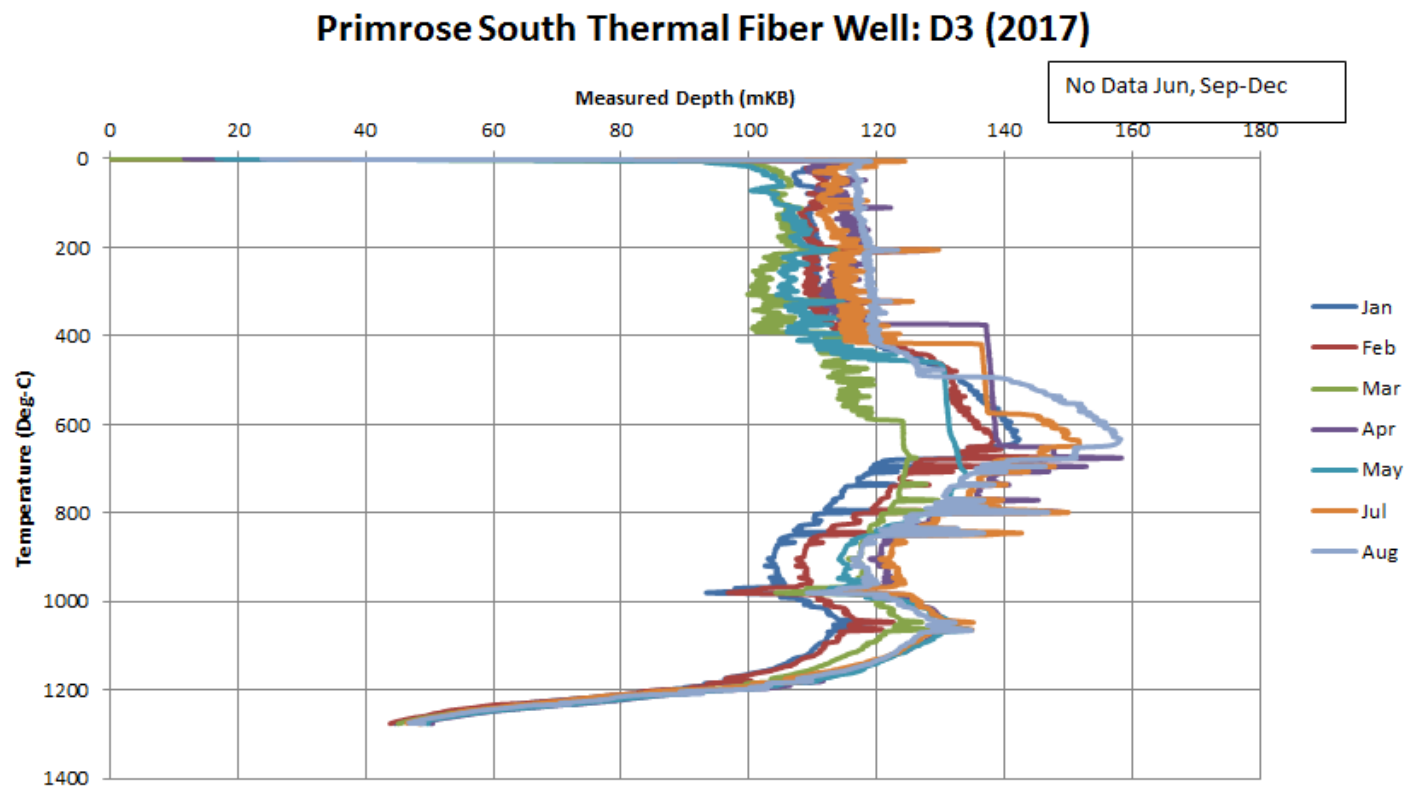
Primrose South – Phase 43

Primrose South Thermal Fiber Well: Pad 43OBJ (2017)



Thermal Fiber Wells in Steamed Areas

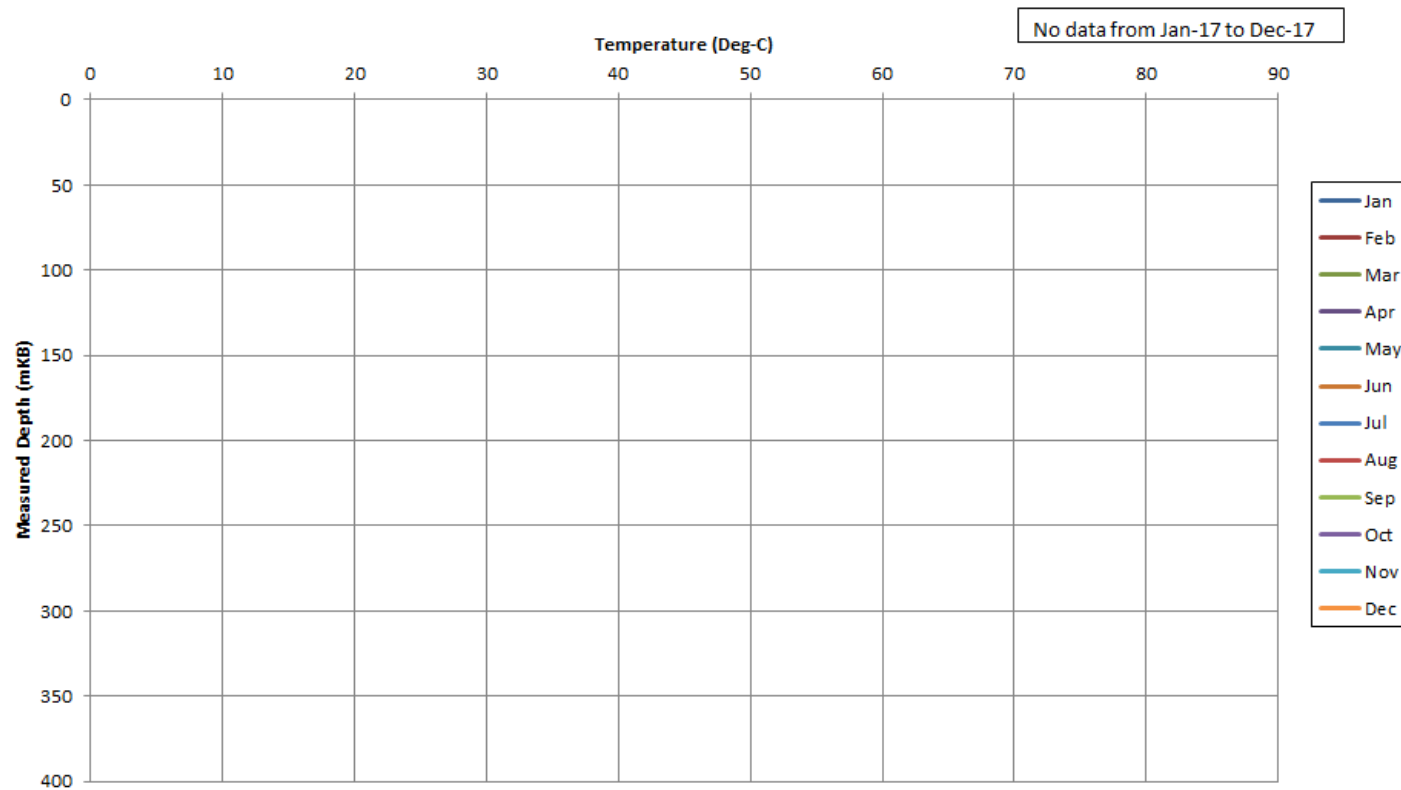
Primrose South – Phase D1



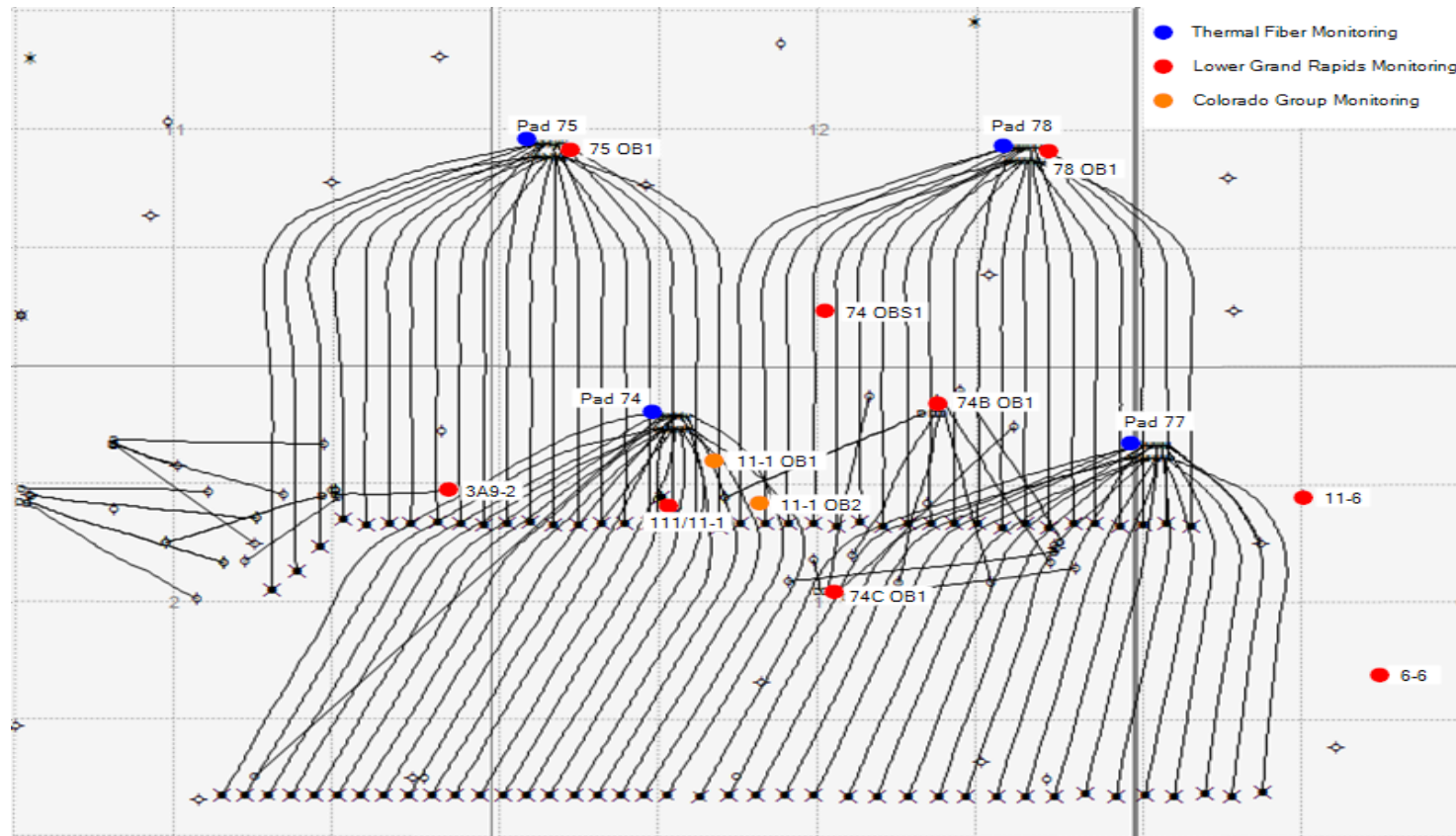
Thermal Fiber Wells in Steamed Areas

Primrose South – Phase D1

Primrose South Thermal Fiber Well: D7 (2017)



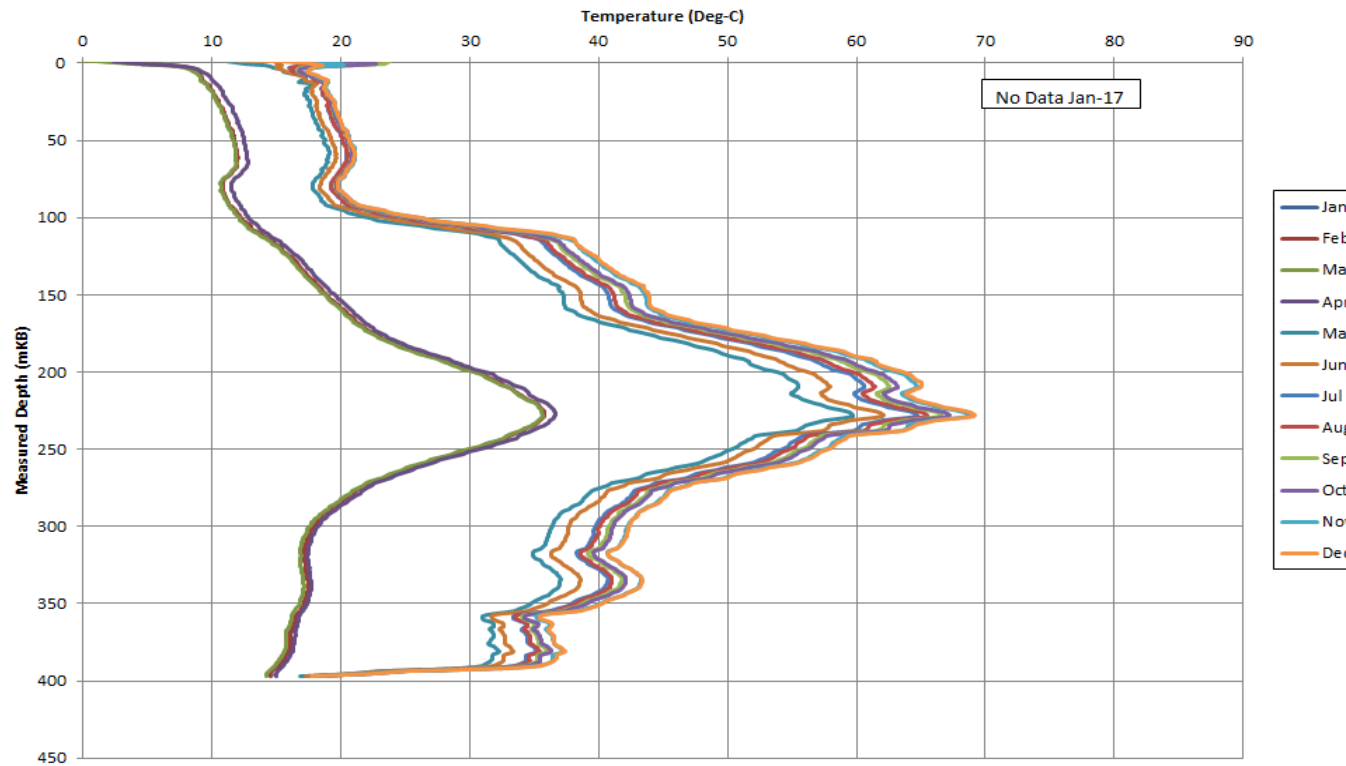
Observation Wells - Primrose East Area 1



Thermal Fiber Wells in Steamed Areas

Primrose East Area 1 – Phase 74

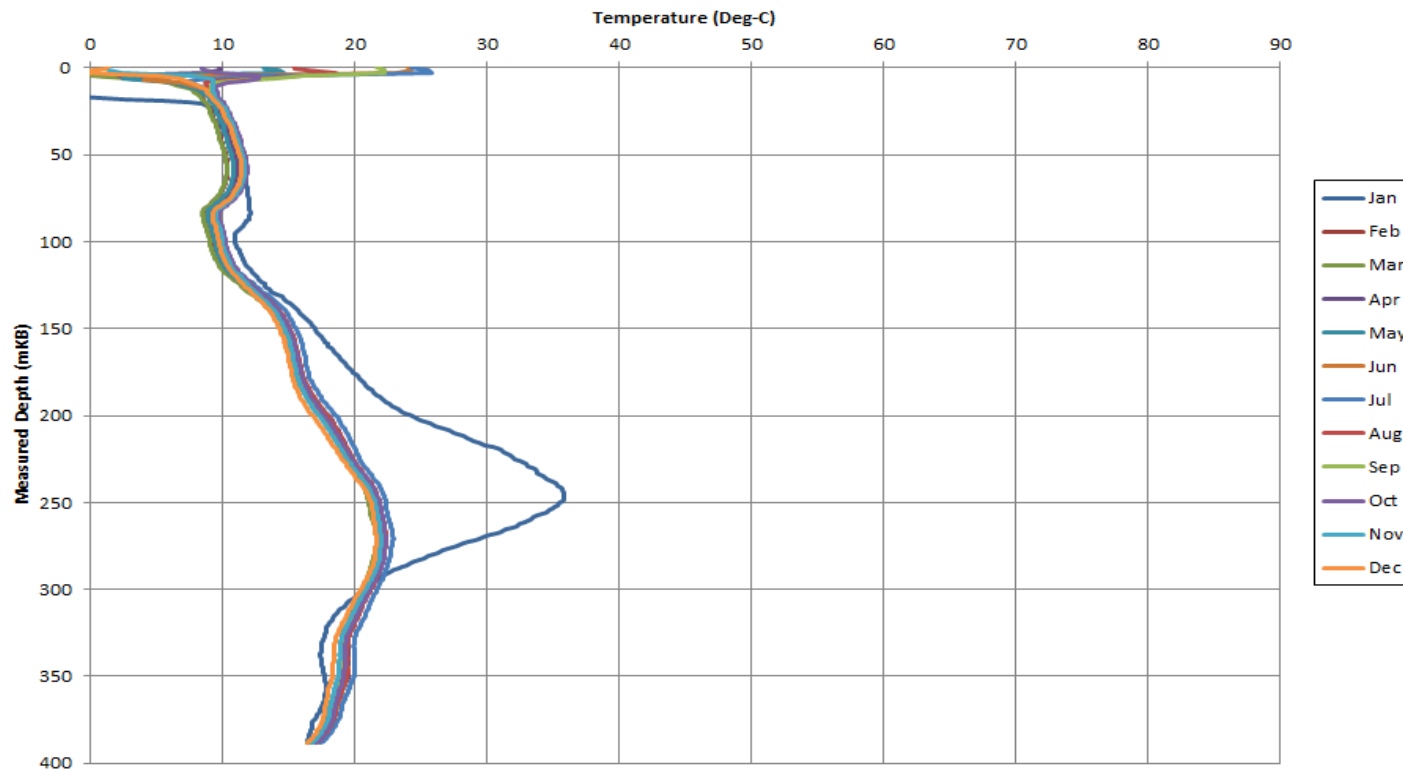
Primrose East Thermal Fiber Well: Pad 74 (2017)



Thermal Fiber Wells in Steamed Areas

Primrose East Area 1 – Phase 75

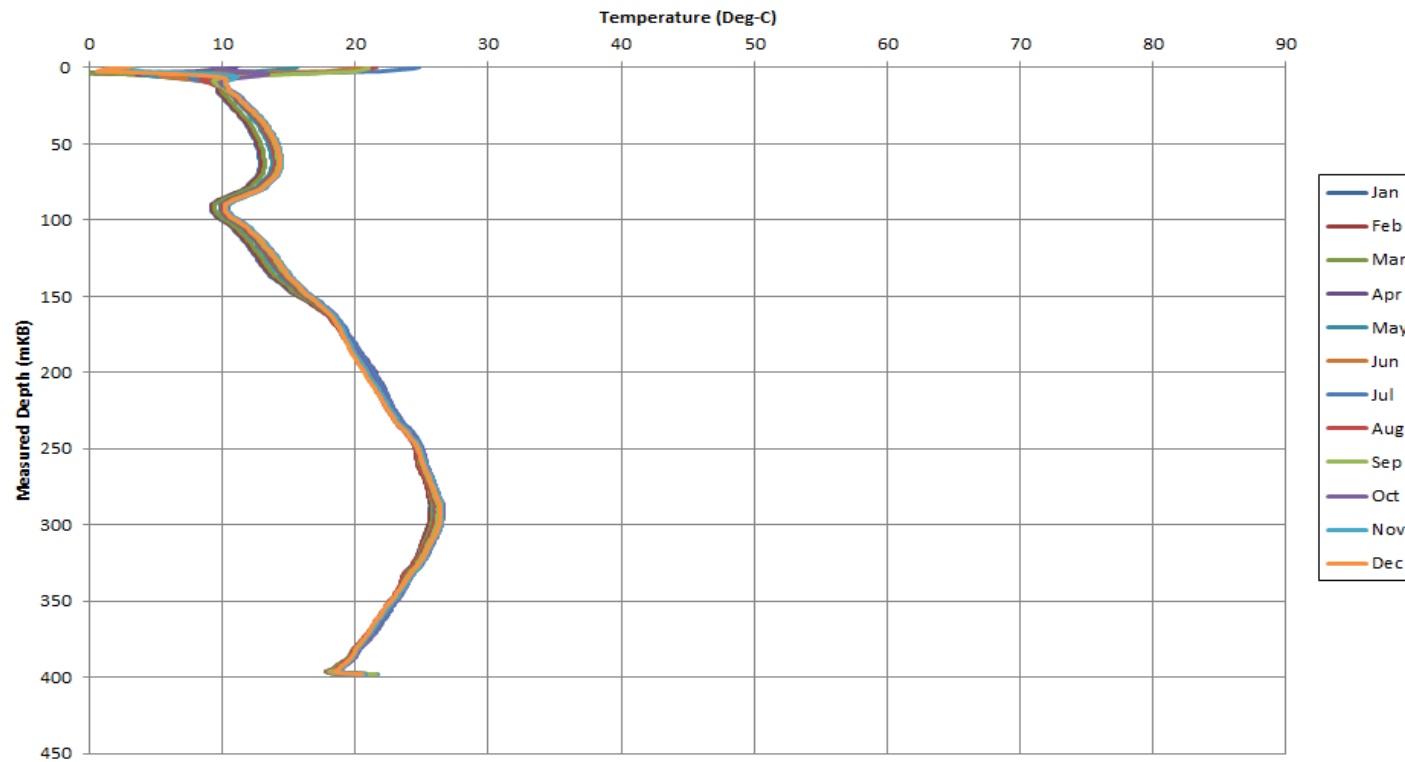
Primrose East Thermal Fiber Well: Pad 75 (2017)



Thermal Fiber Wells in Steamed Areas

Primrose East Area 1 – Phase 77

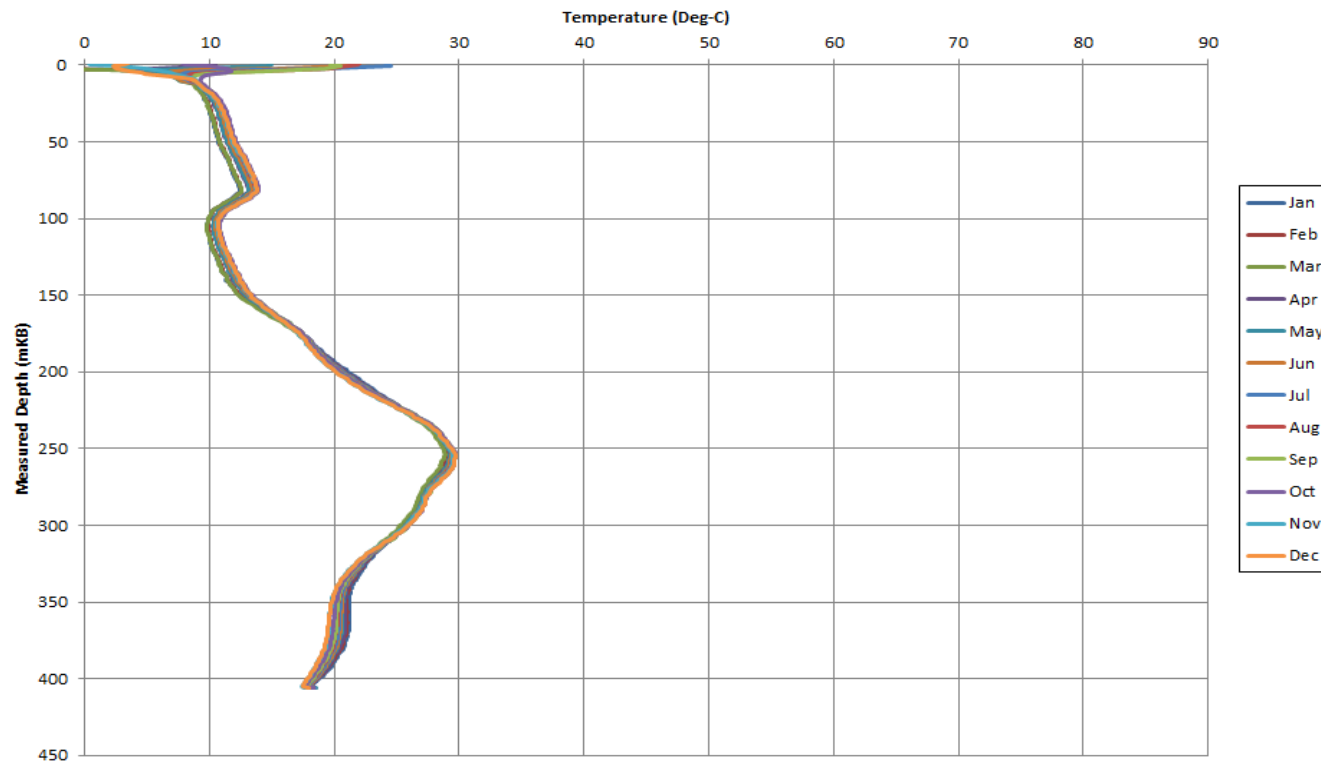
Primrose East Thermal Fiber Well: Pad 77 (2017)



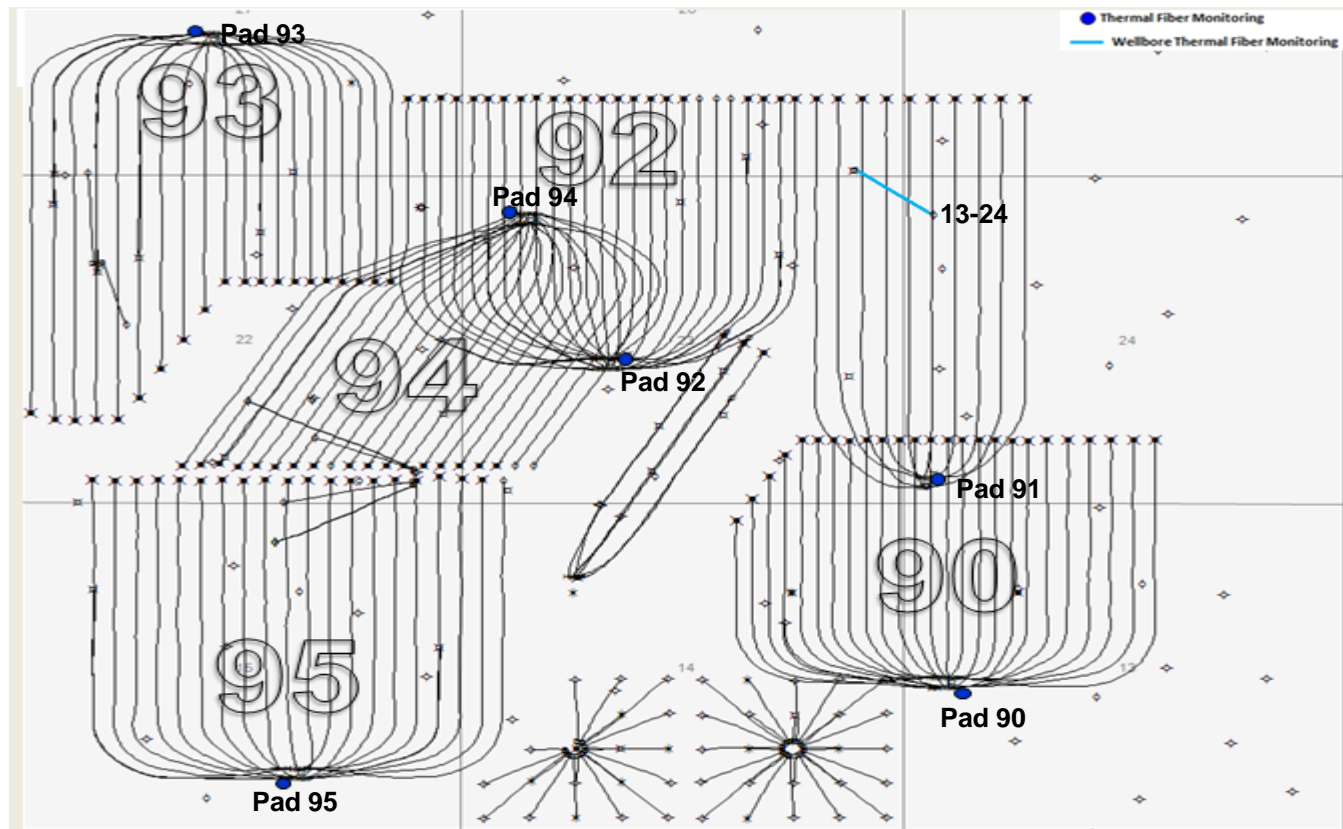
Thermal Fiber Wells in Steamed Areas

Primrose East Area 1 – Phase 78

Primrose East Thermal Fiber Well: Pad 78 Merge (2017)

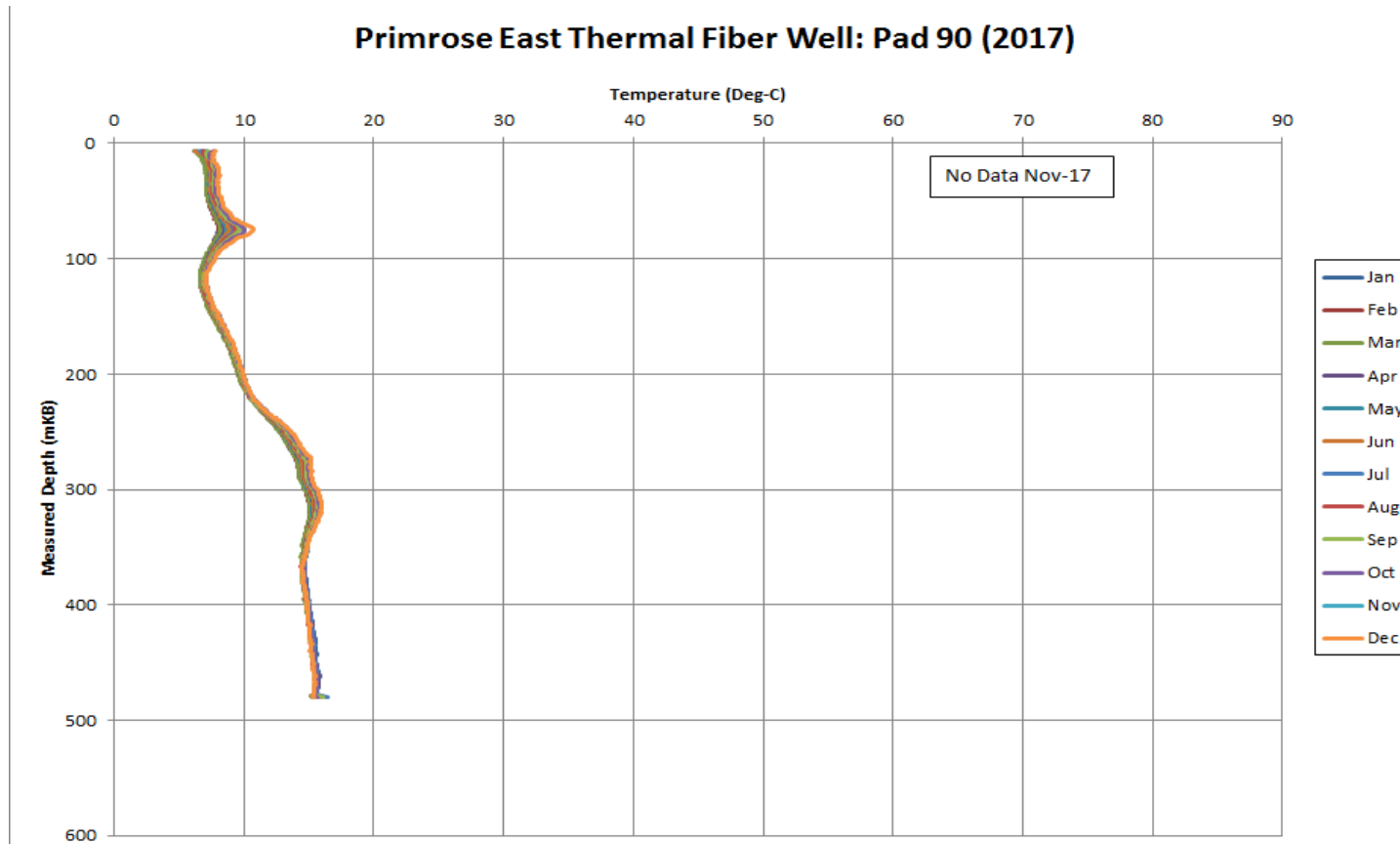


Observation Wells - Primrose East Area 2



Thermal Fiber Wells in Steamed Areas

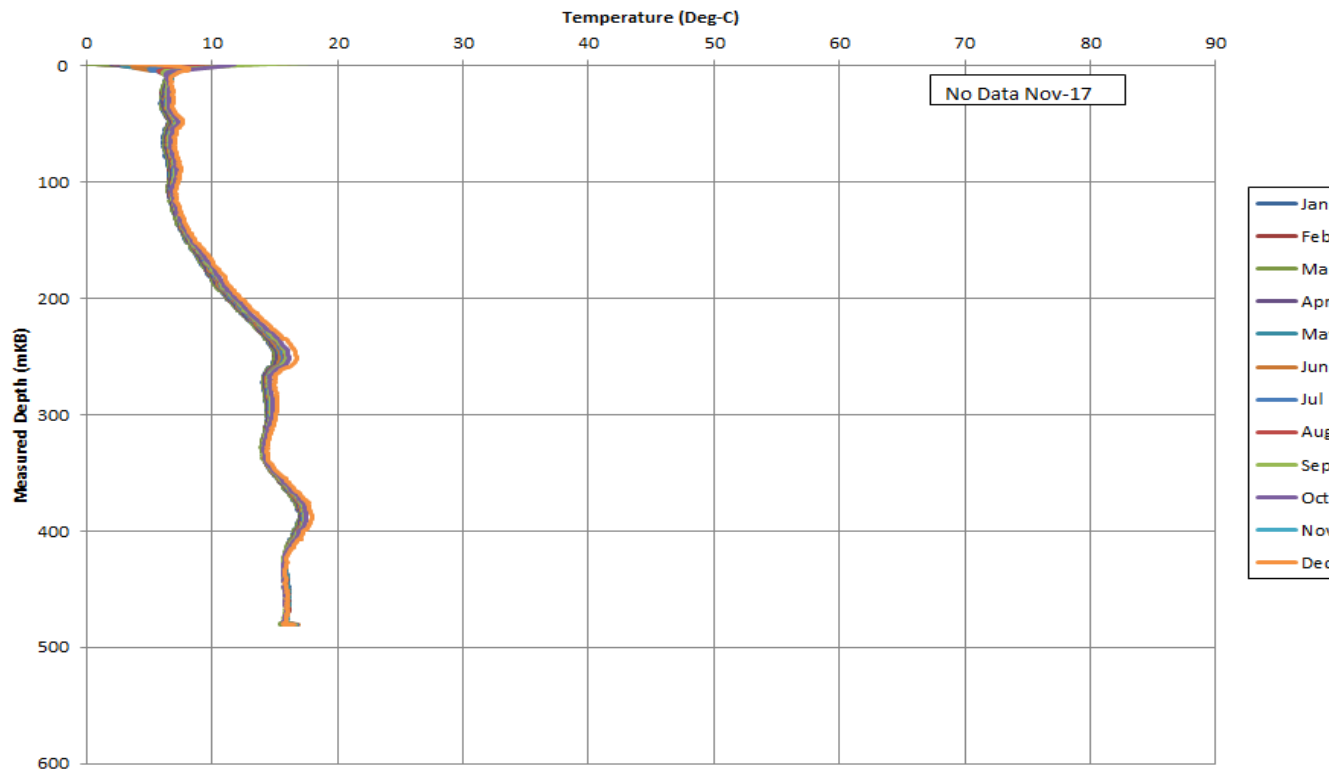
Primrose East Area 2 – Phase 90



Thermal Fiber Wells in Steamed Areas

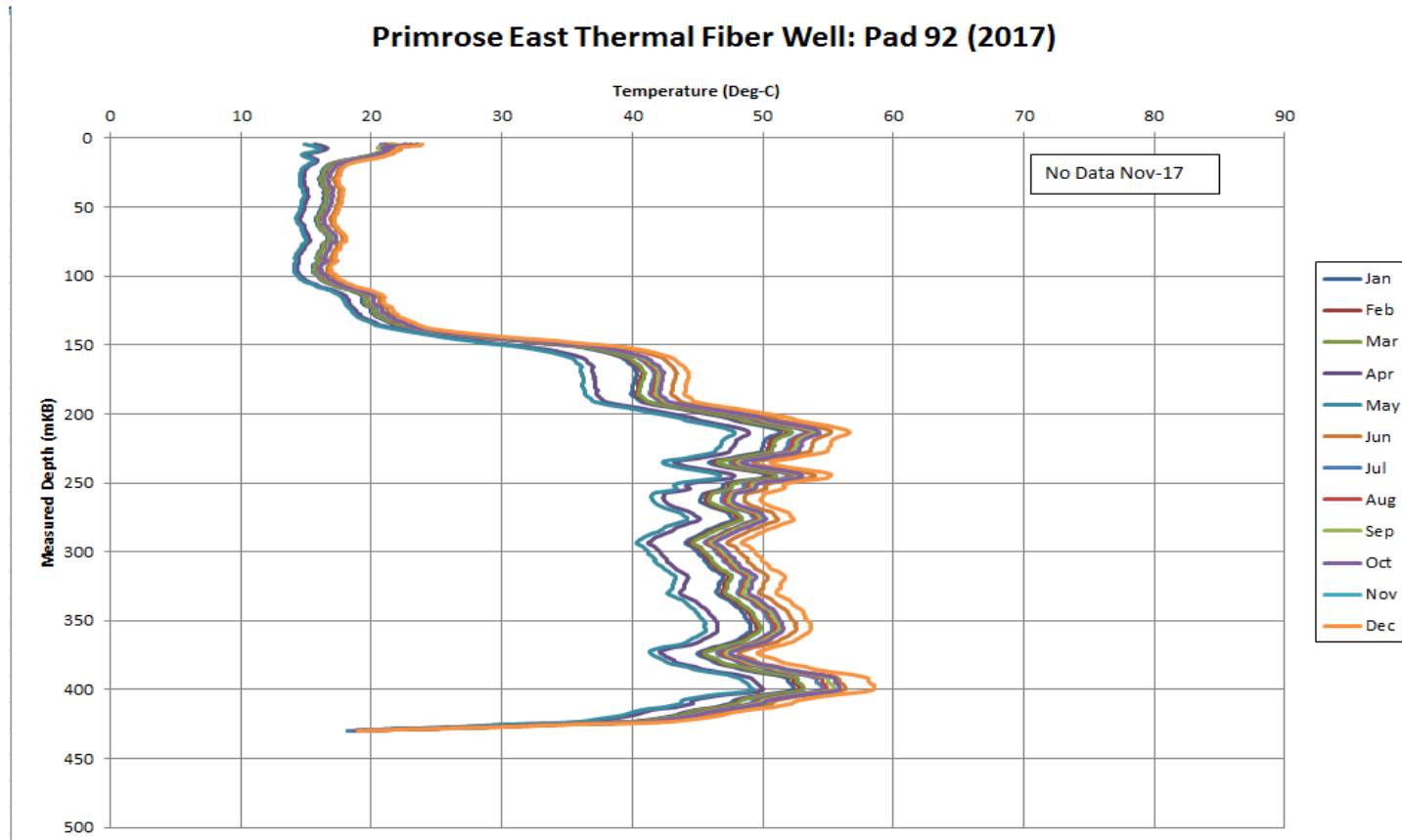
Primrose East Area 2 – Phase 91

Primrose East Thermal Fiber Well: Pad 91 (2017)



Thermal Fiber Wells in Steamed Areas

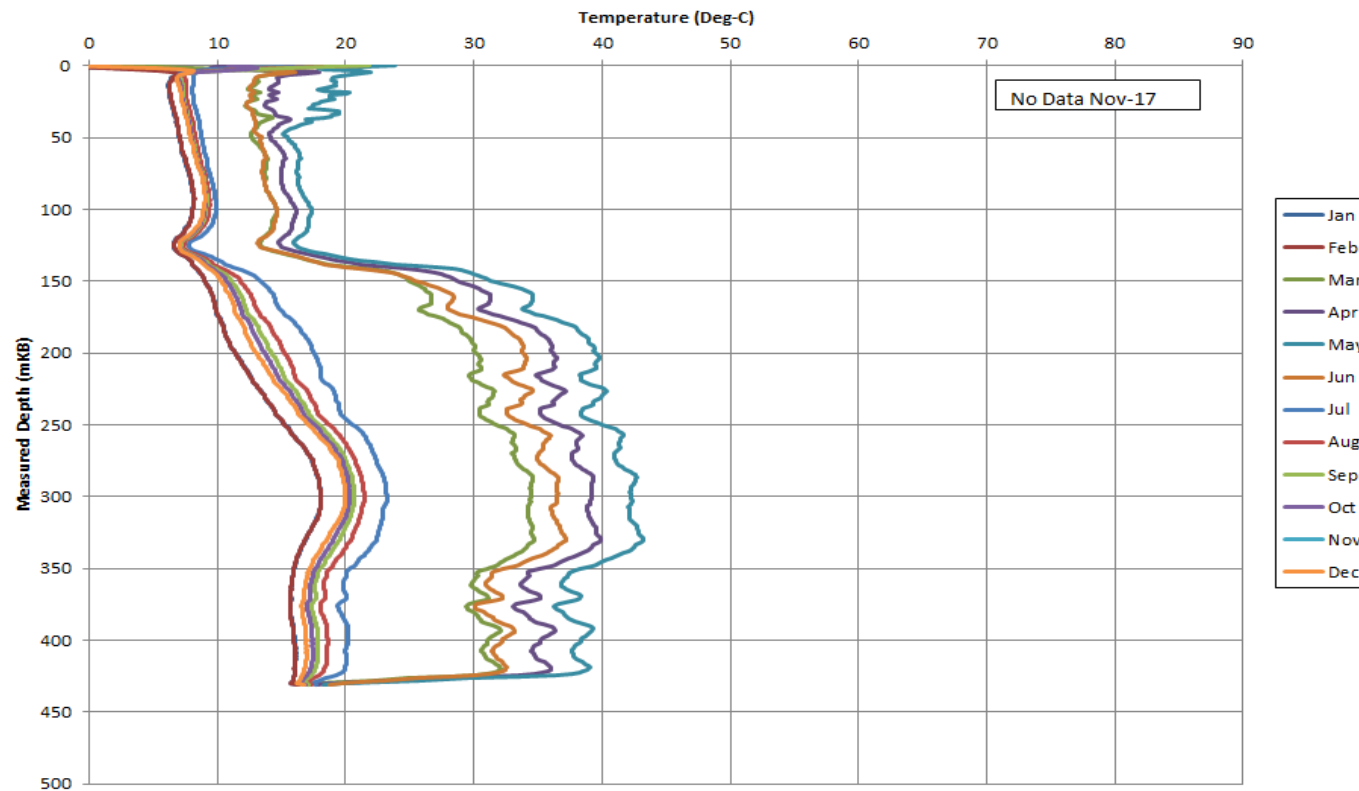
Primrose East Area 2 – Phase 92



Thermal Fiber Wells in Steamed Areas

Primrose East Area 2 – Phase 93

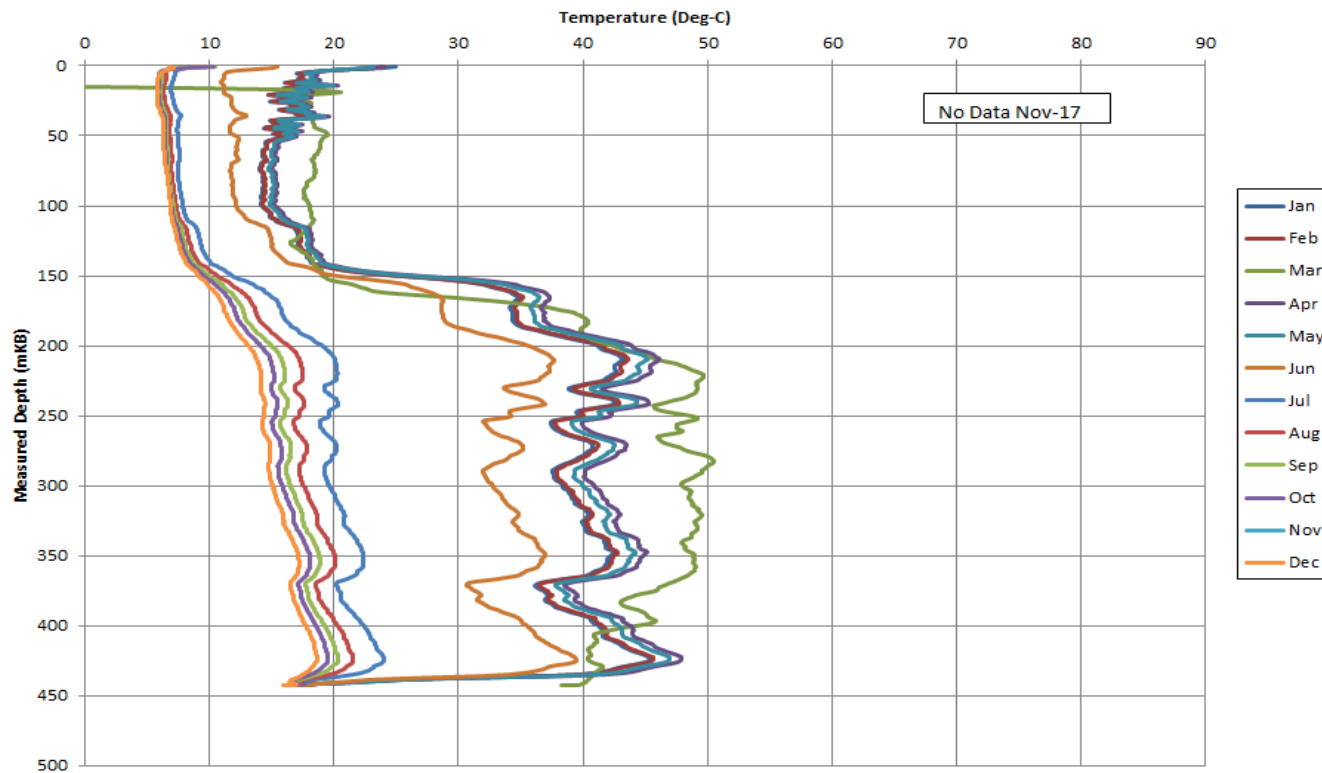
Primrose East Thermal Fiber Well: Pad 93 (2017)



Thermal Fiber Wells in Steamed Areas

Primrose East Area 2 – Phase 94

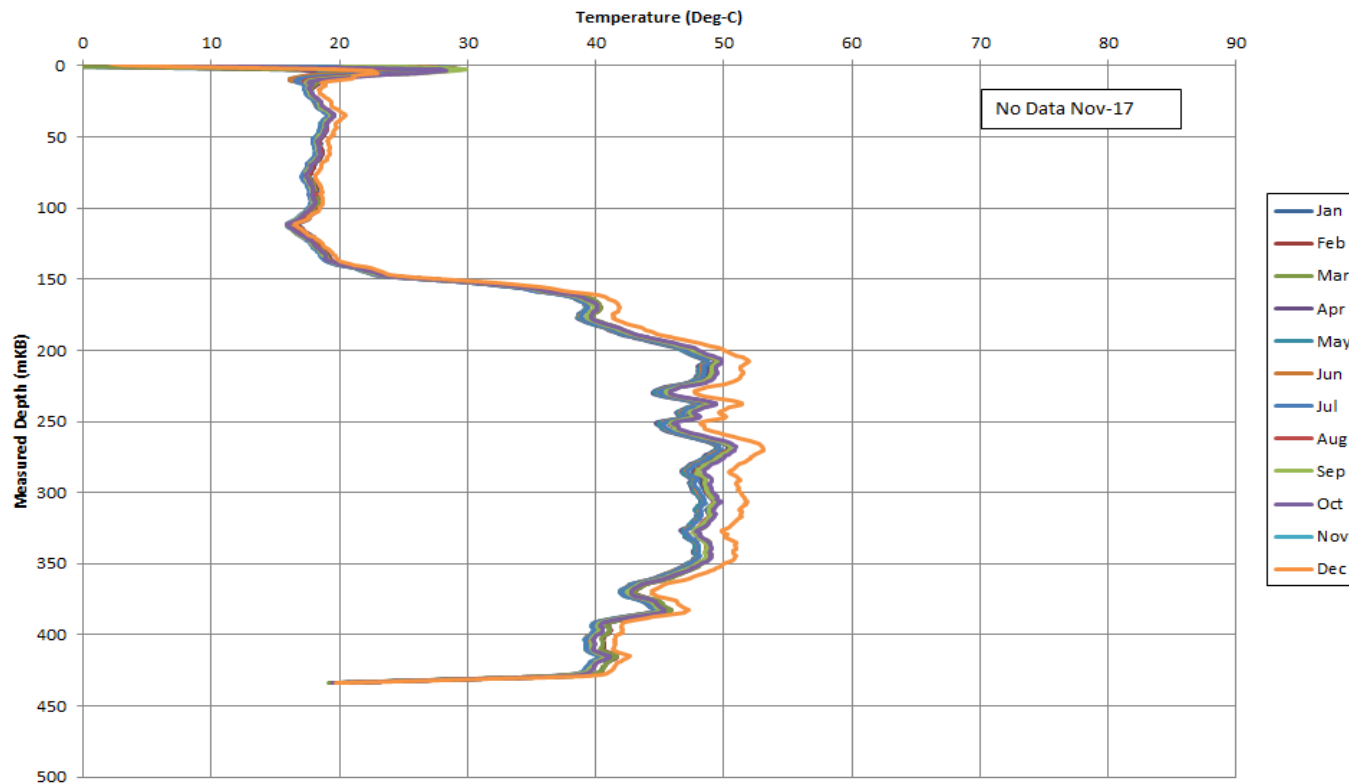
Primrose East Thermal Fiber Well: Pad 94 (2017)



Thermal Fiber Wells in Steamed Areas

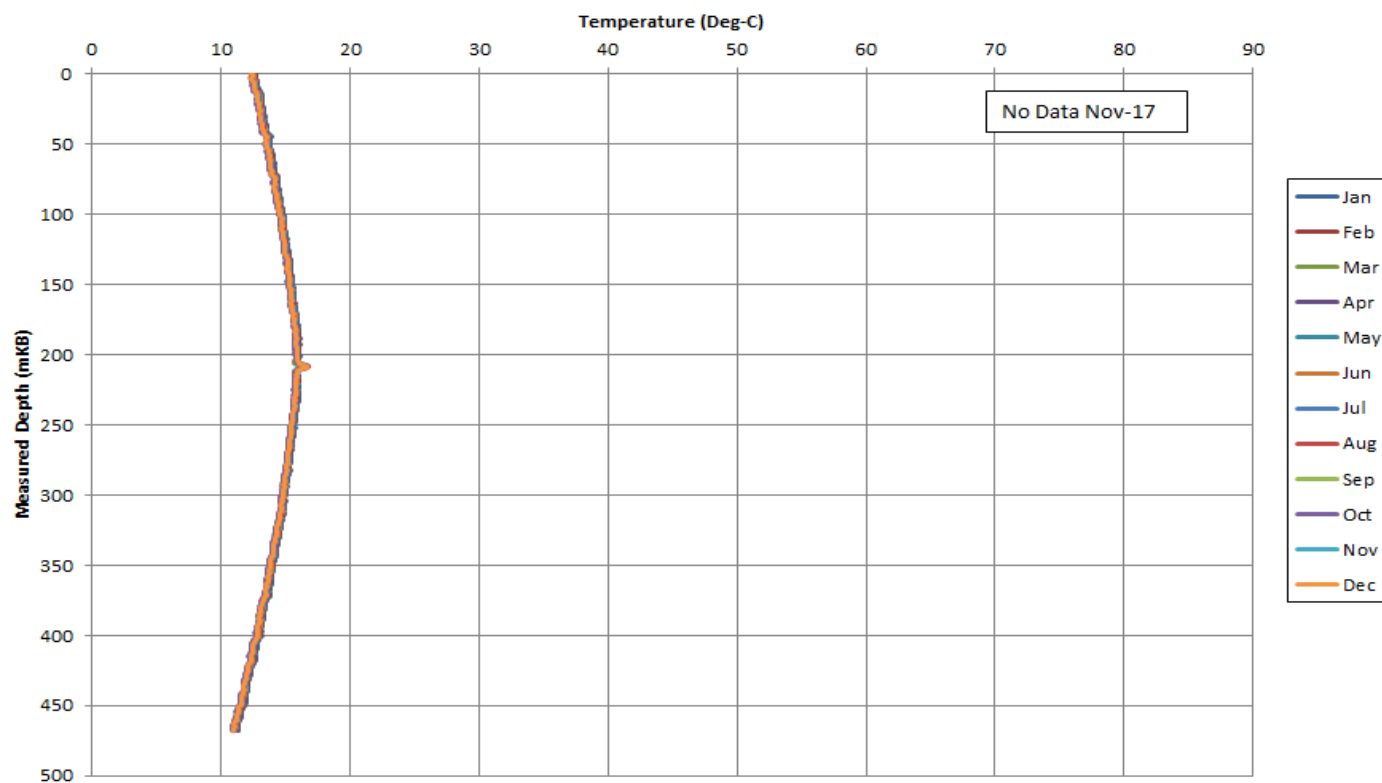
Primrose East Area 2 – Phase 95

Primrose East Thermal Fiber Well: Pad 95 (2017)

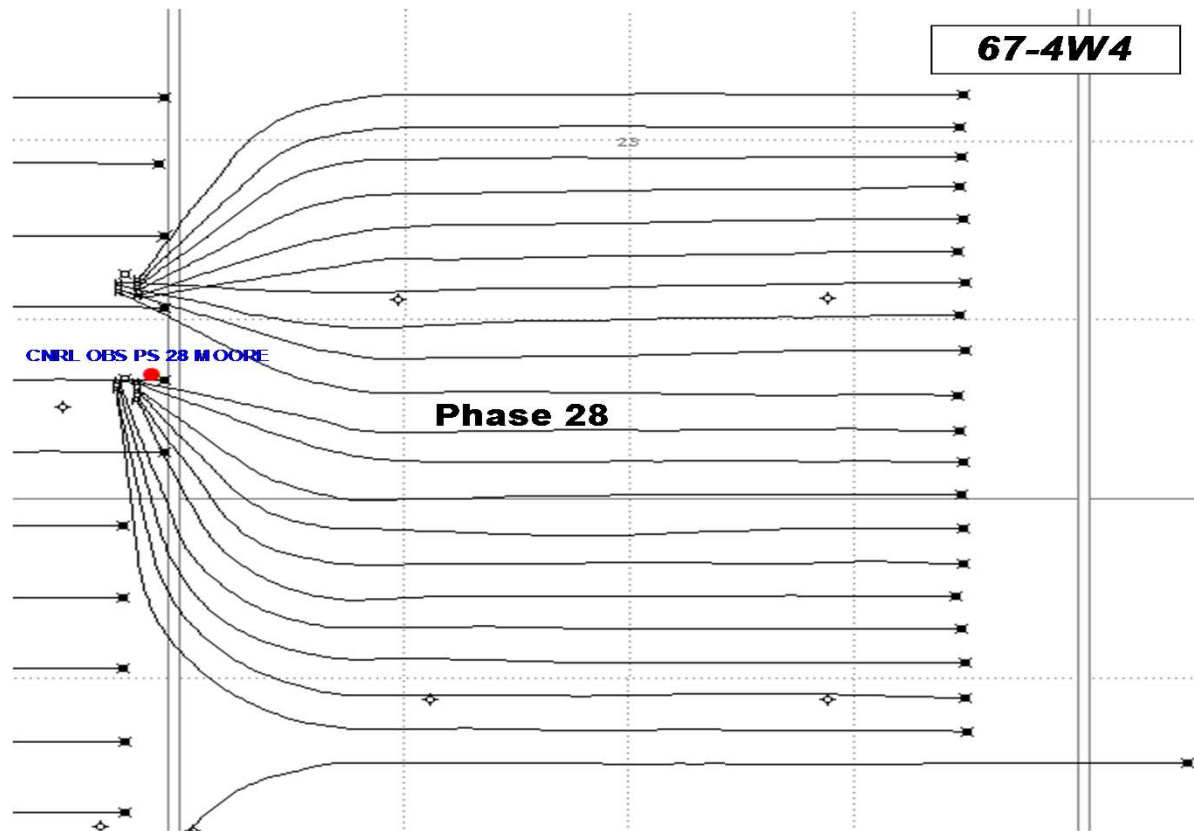


Thermal Fiber Wells in Steamed Areas Primrose East Area 2 – Phase 95

Primrose East Thermal Fiber Well: 13-24(2017)

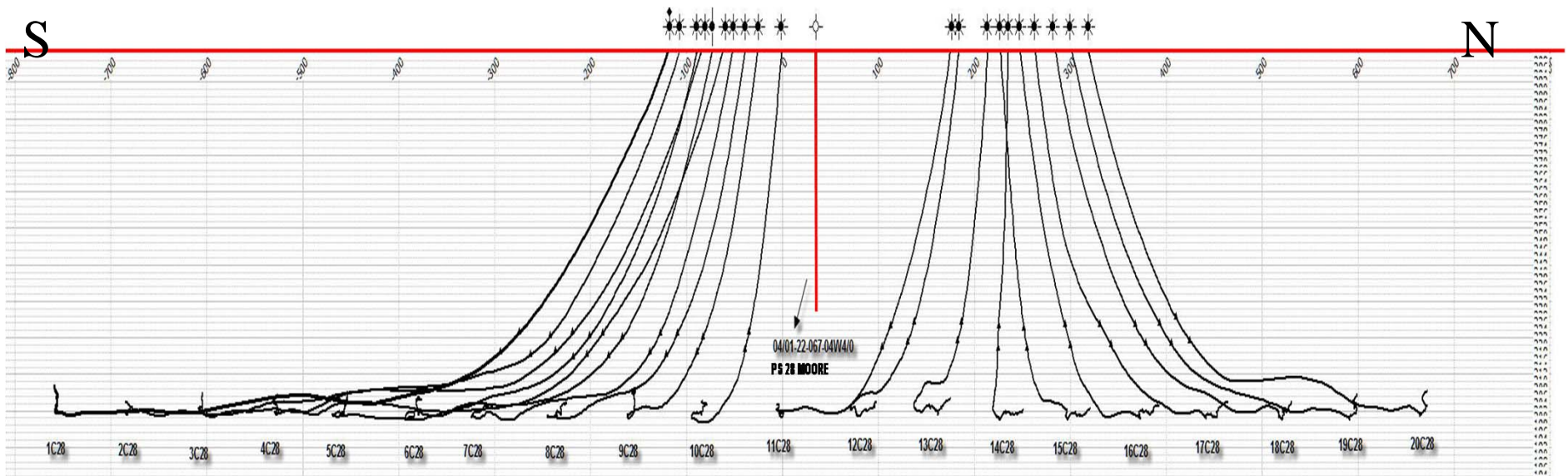


Observation Wells - Primrose South Phase 28



Primrose South B12

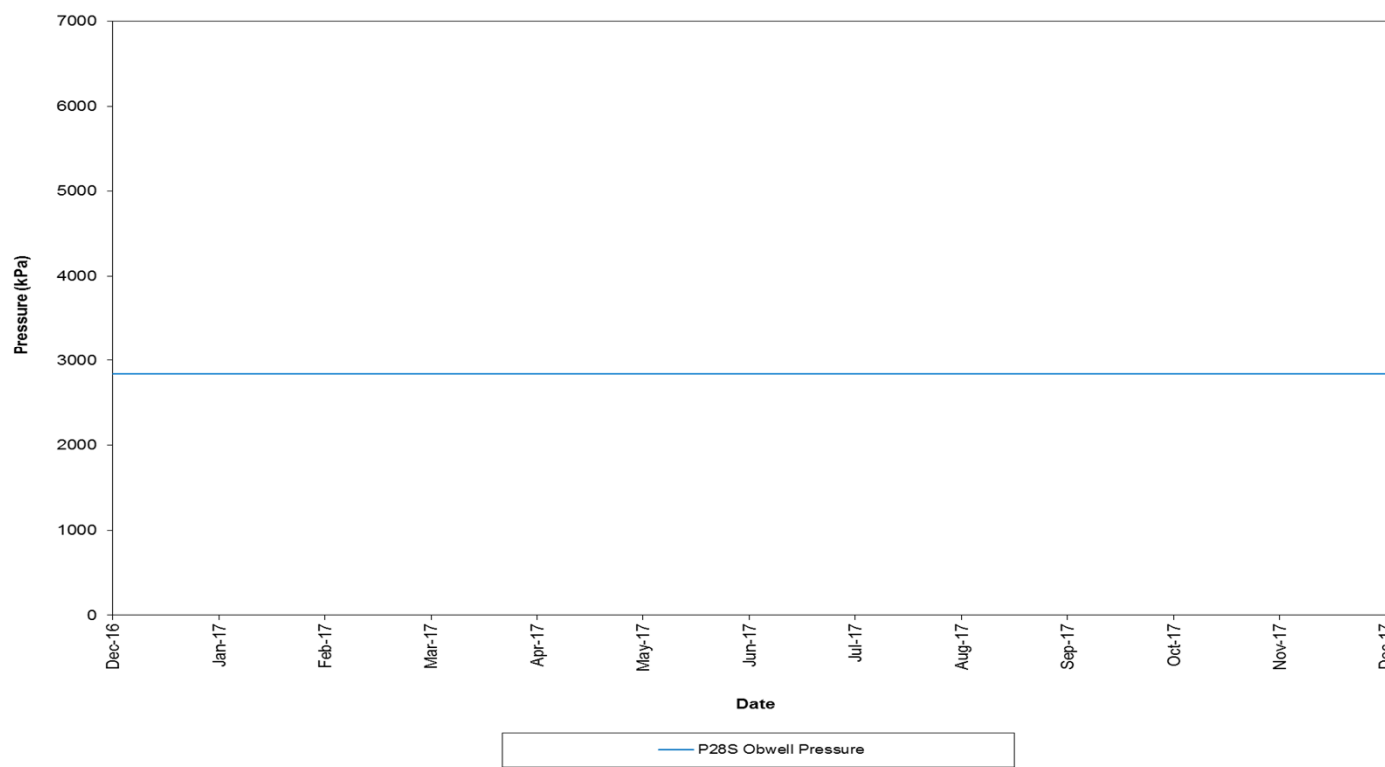
Pressure & Temperature Monitoring – PS 28 MOORE



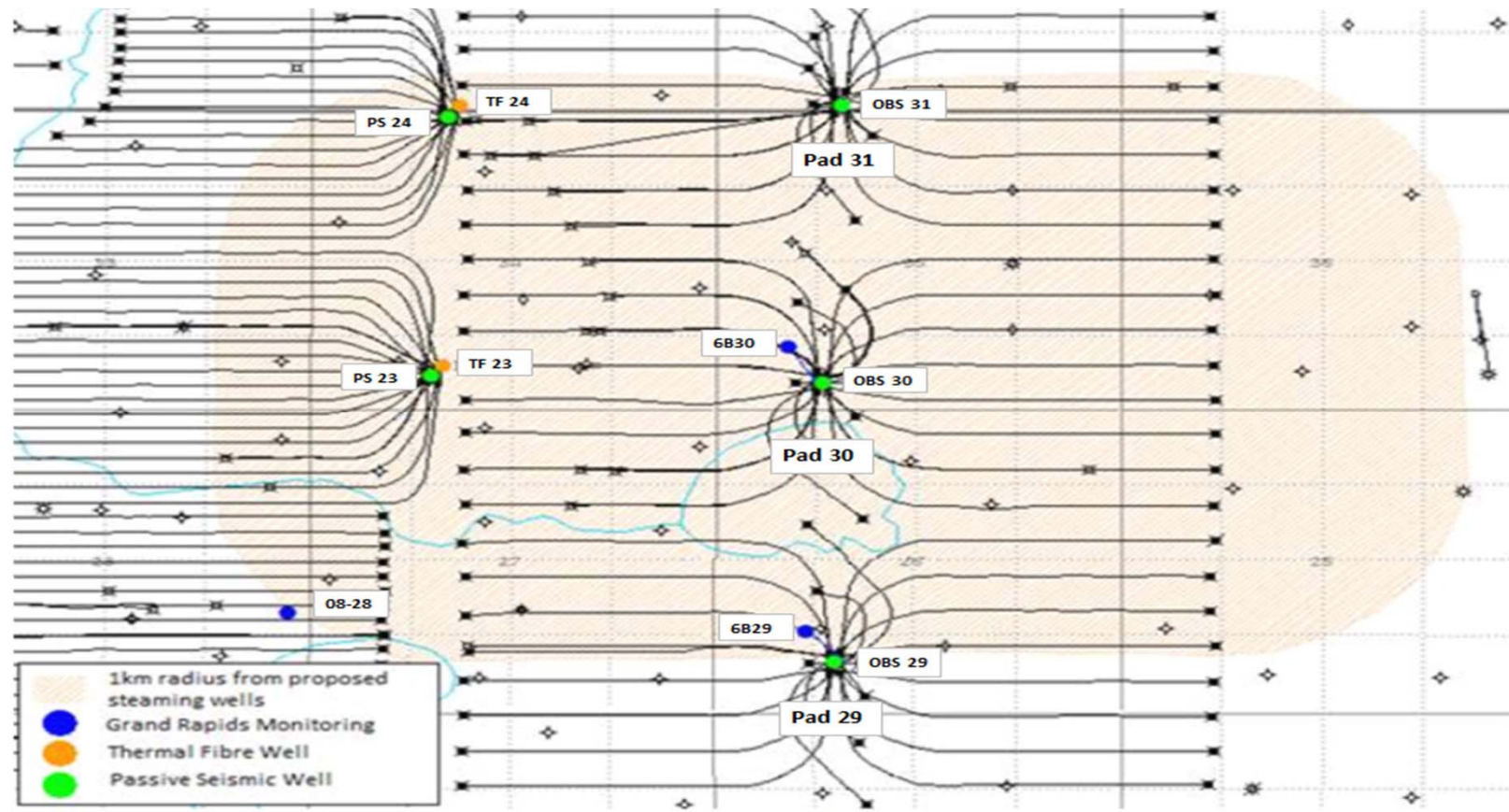
Primrose South B12

Pressure Monitoring – PS 28 MOORE

Primrose South: CNRL OBS PS 28 Moore 1-22-67-4

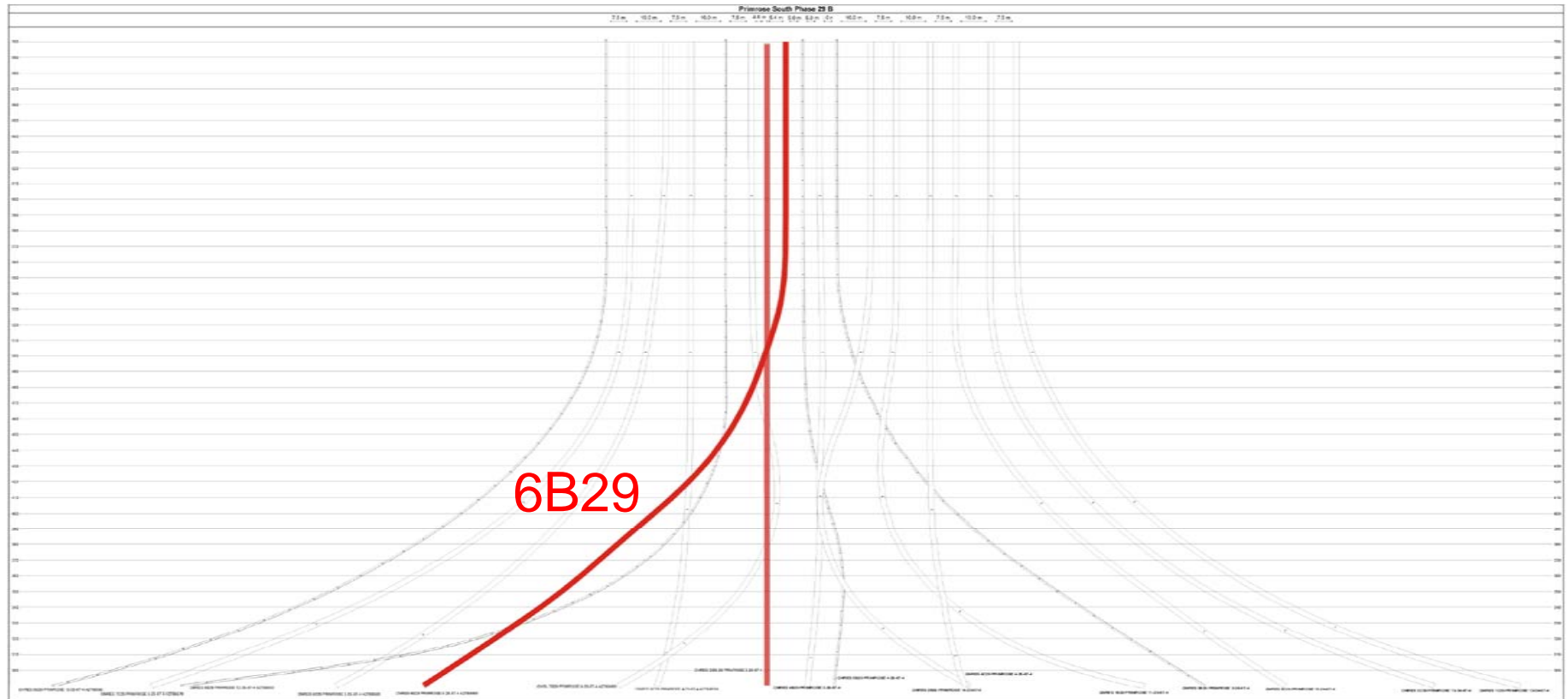


Observation Wells - Primrose South Phases 29-31



Primrose South B12

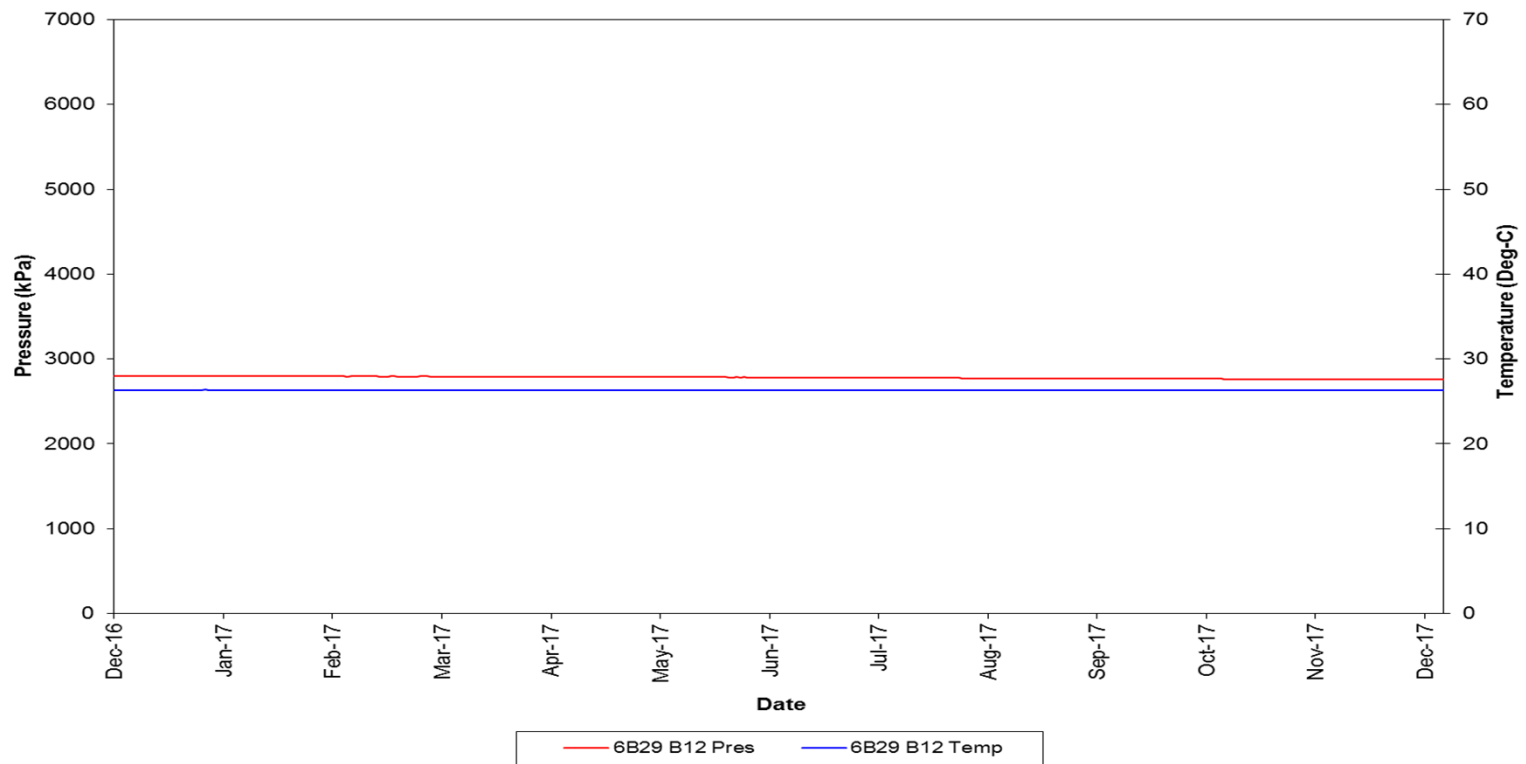
Pressure & Temperature Monitoring – 6B29



Primrose South B12

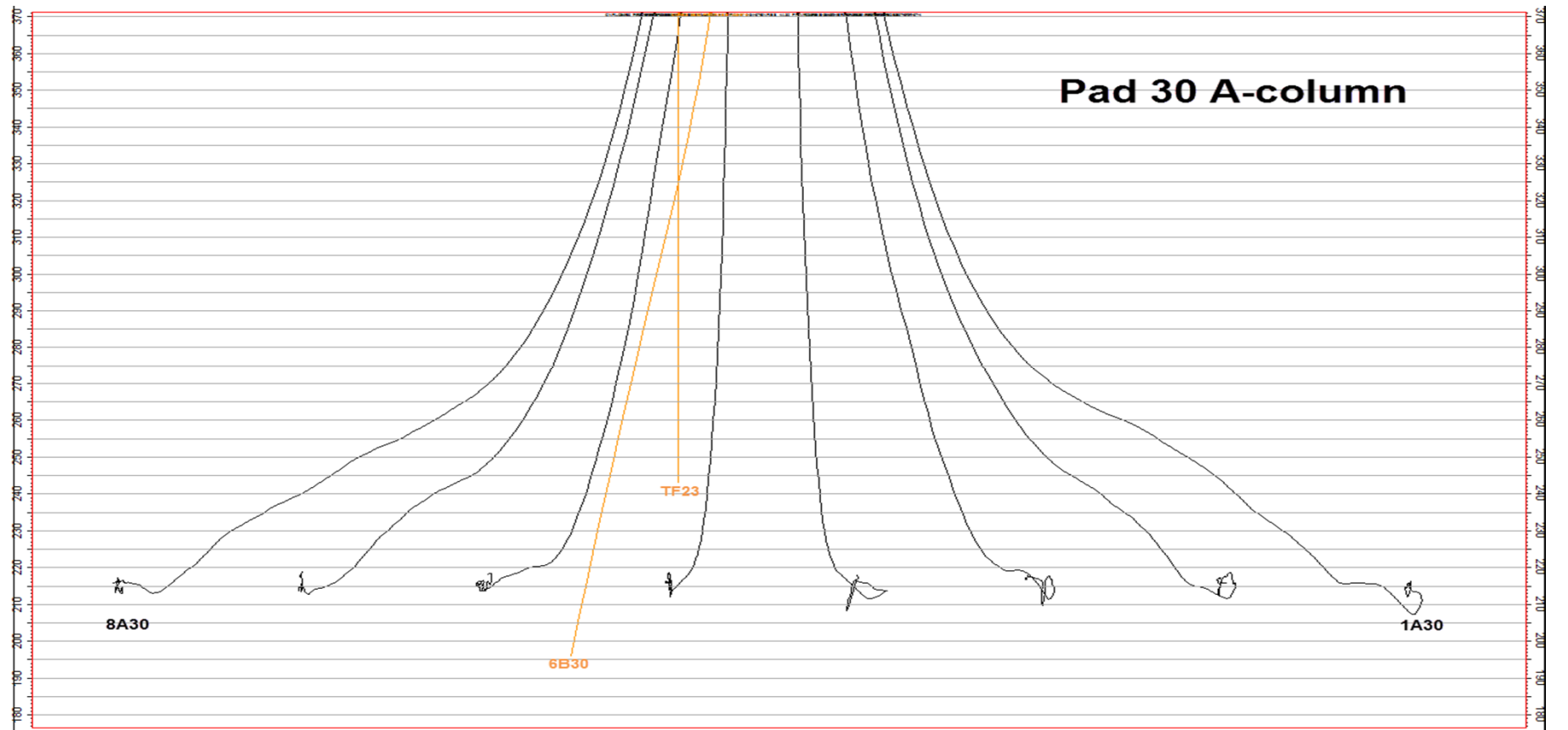
Pressure & Temperature Monitoring – 6B29

Primrose South: 6B29 B12



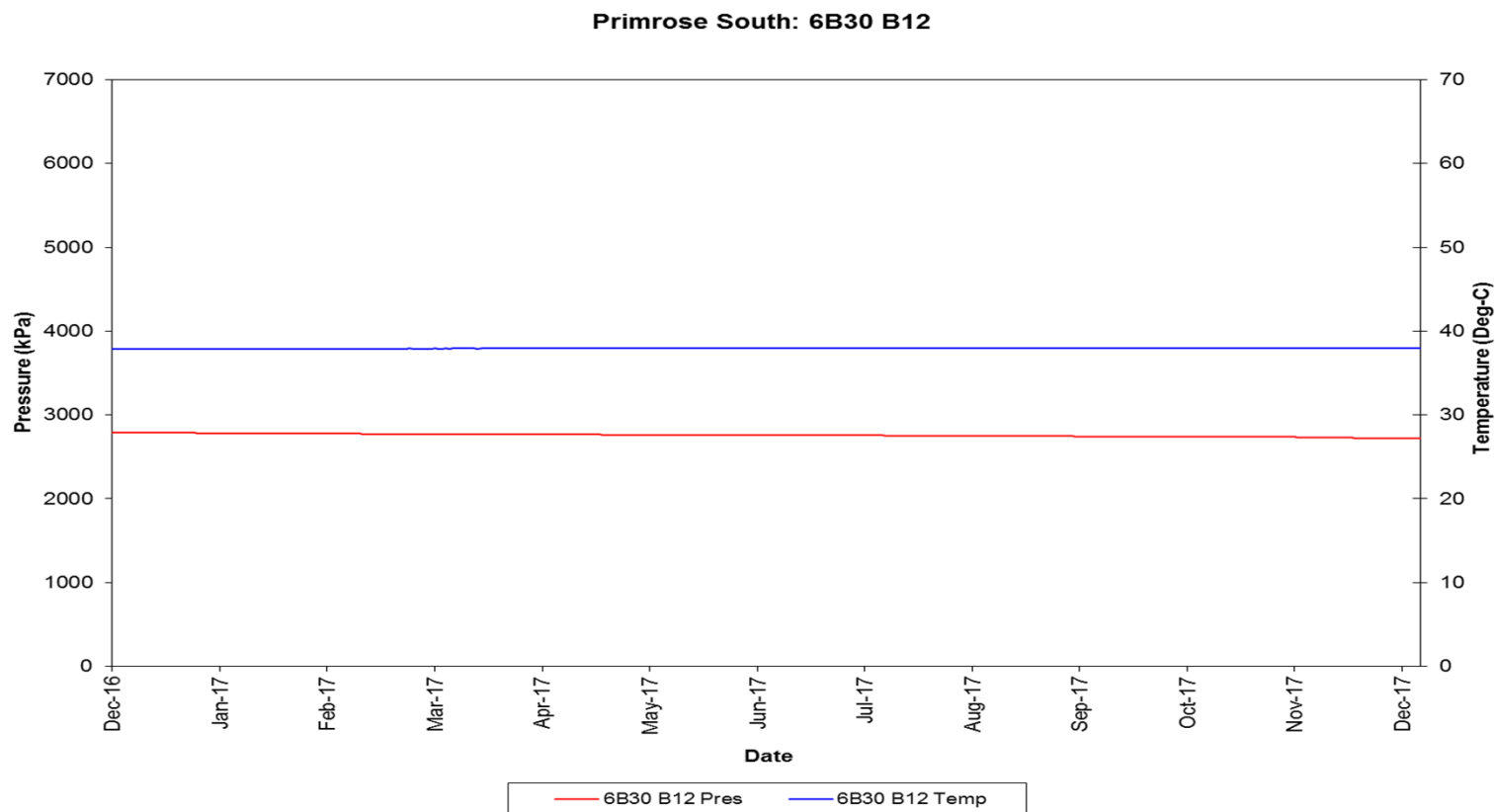
Primrose South B12

Pressure & Temperature Monitoring – 6B30



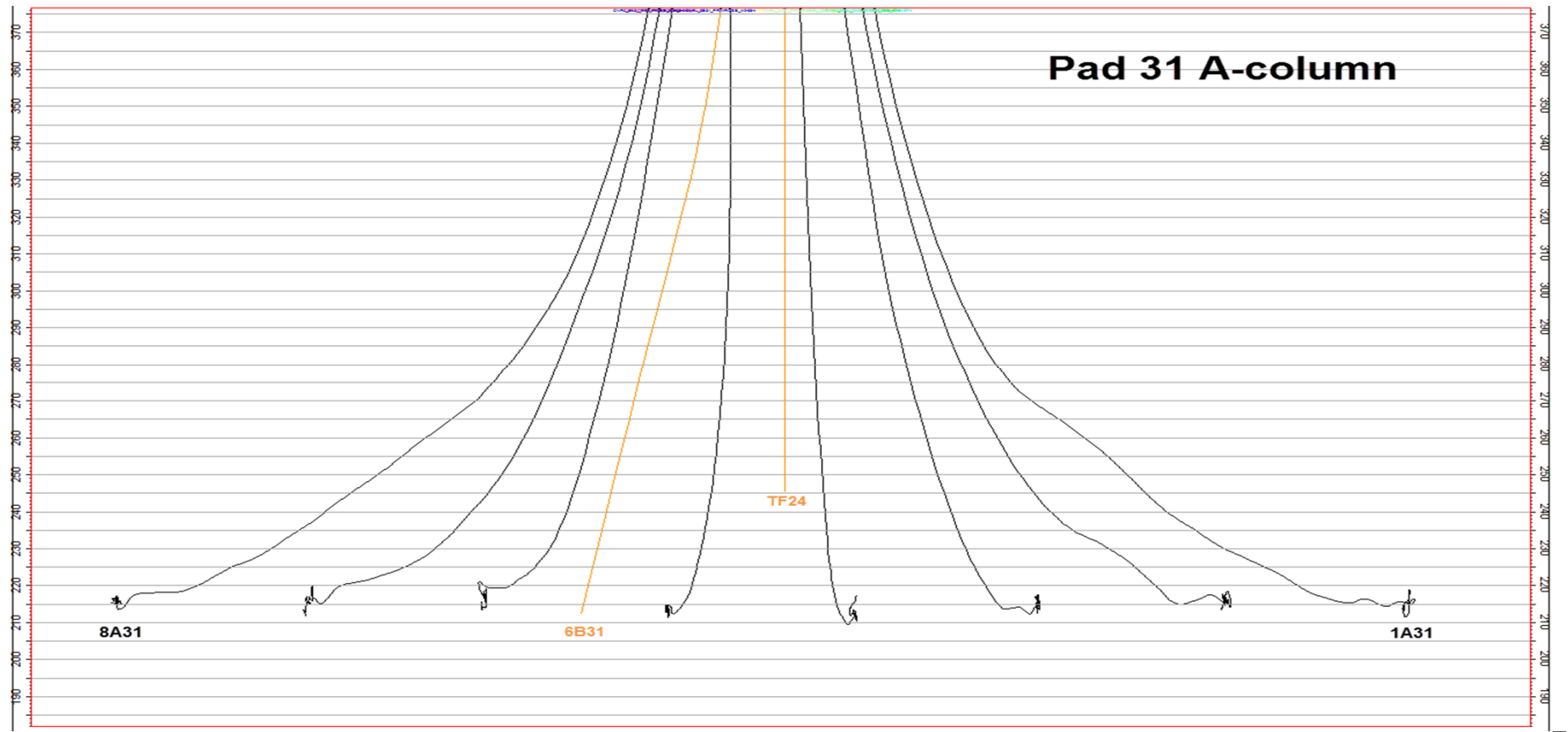
Primrose South B12

Pressure & Temperature Monitoring – 6B30



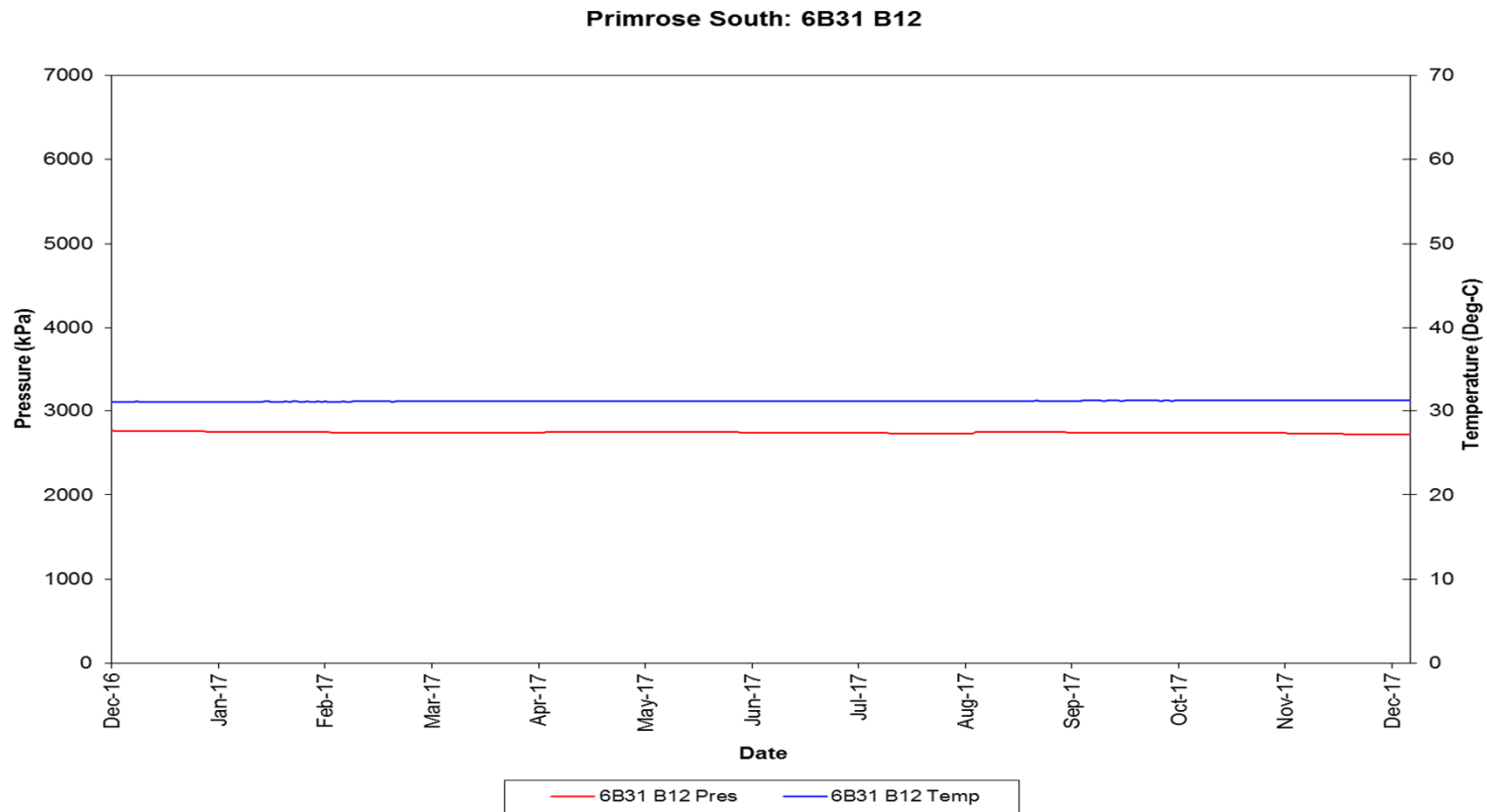
Primrose South B12

Pressure & Temperature Monitoring – 6B31



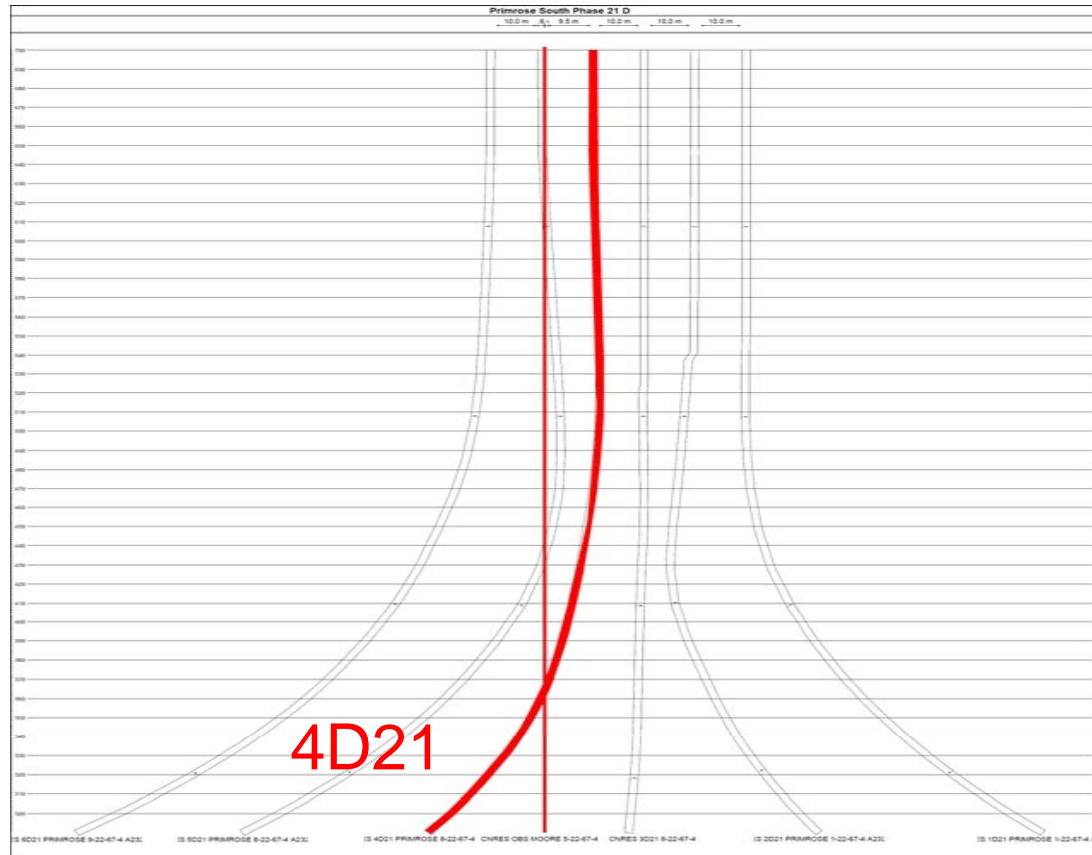
Primrose South B12

Pressure & Temperature Monitoring – 6B31



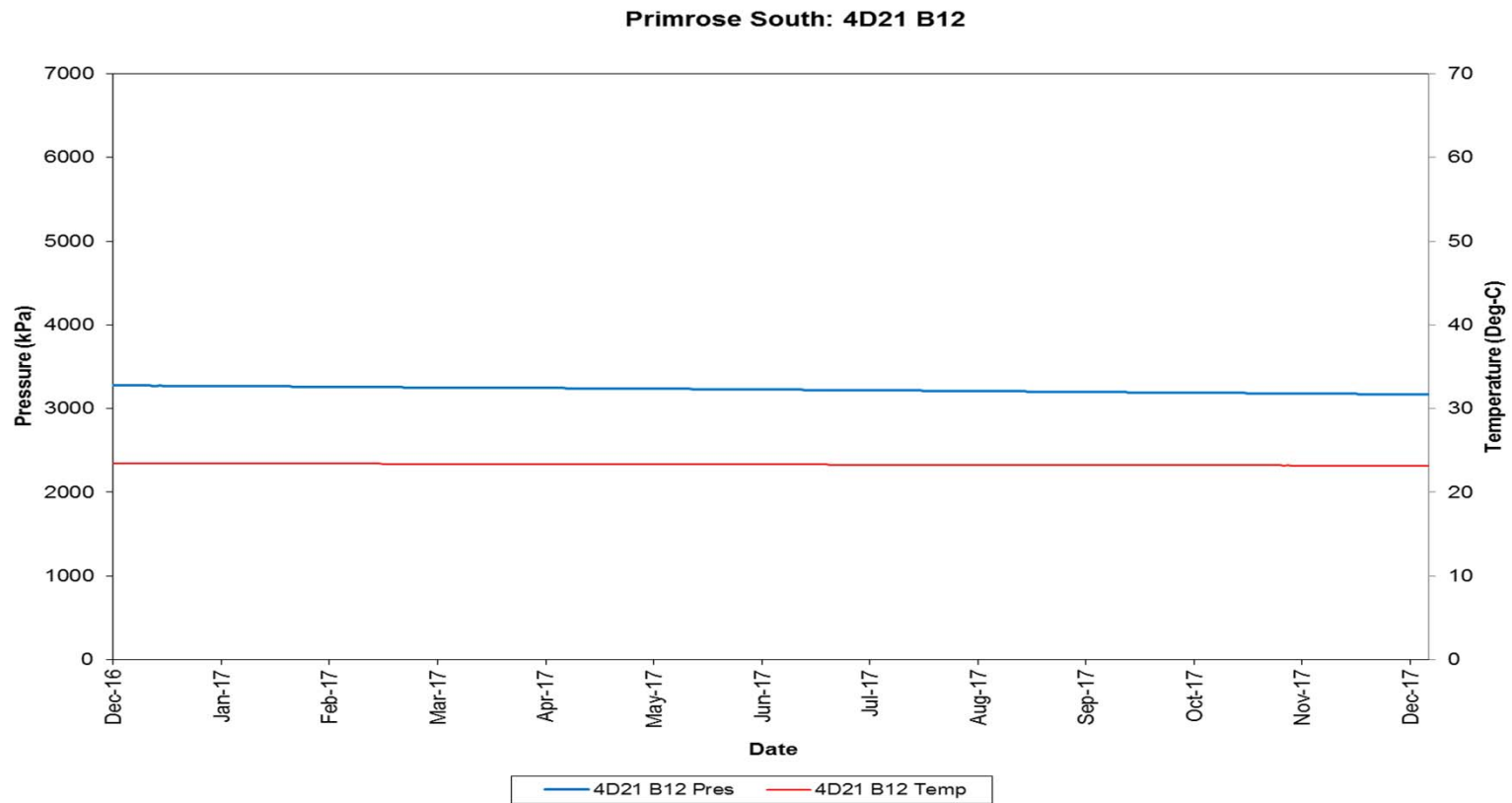
Primrose South B12

Pressure & Temperature Monitoring – 4D21

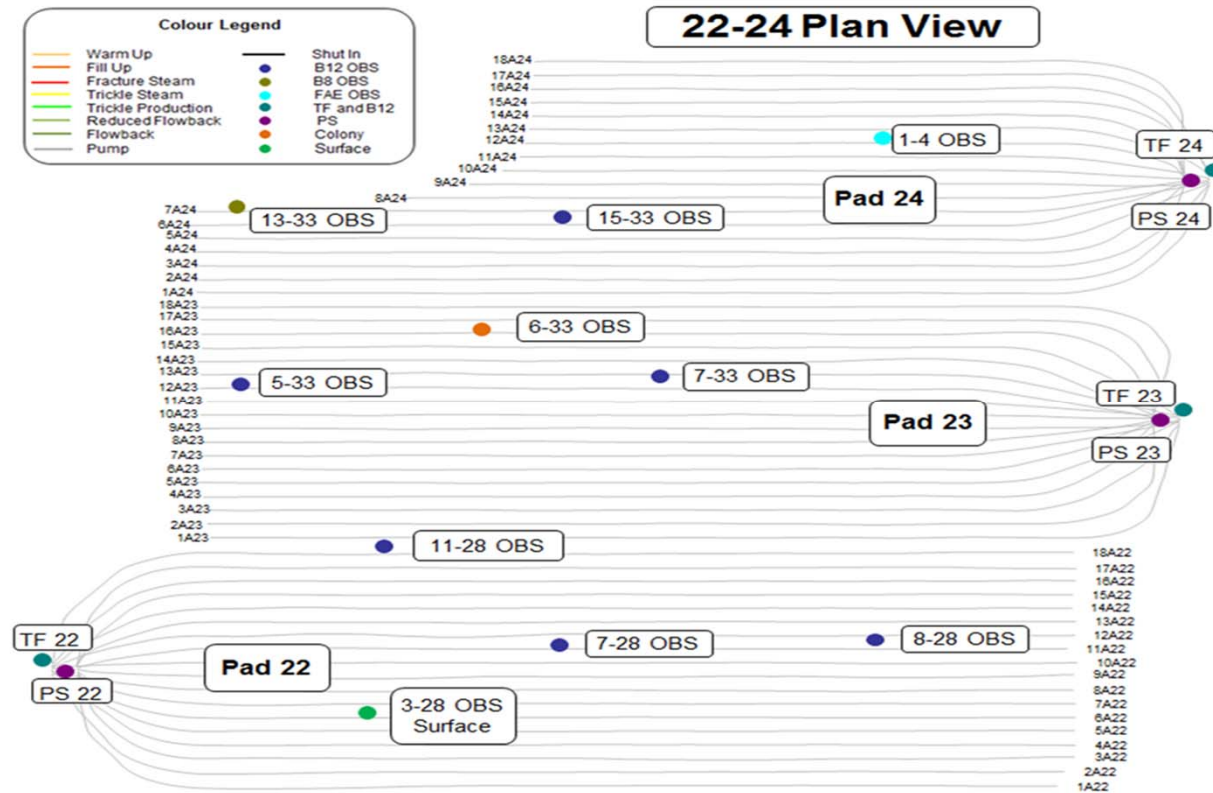


Primrose South B12

Pressure Monitoring – 4D21

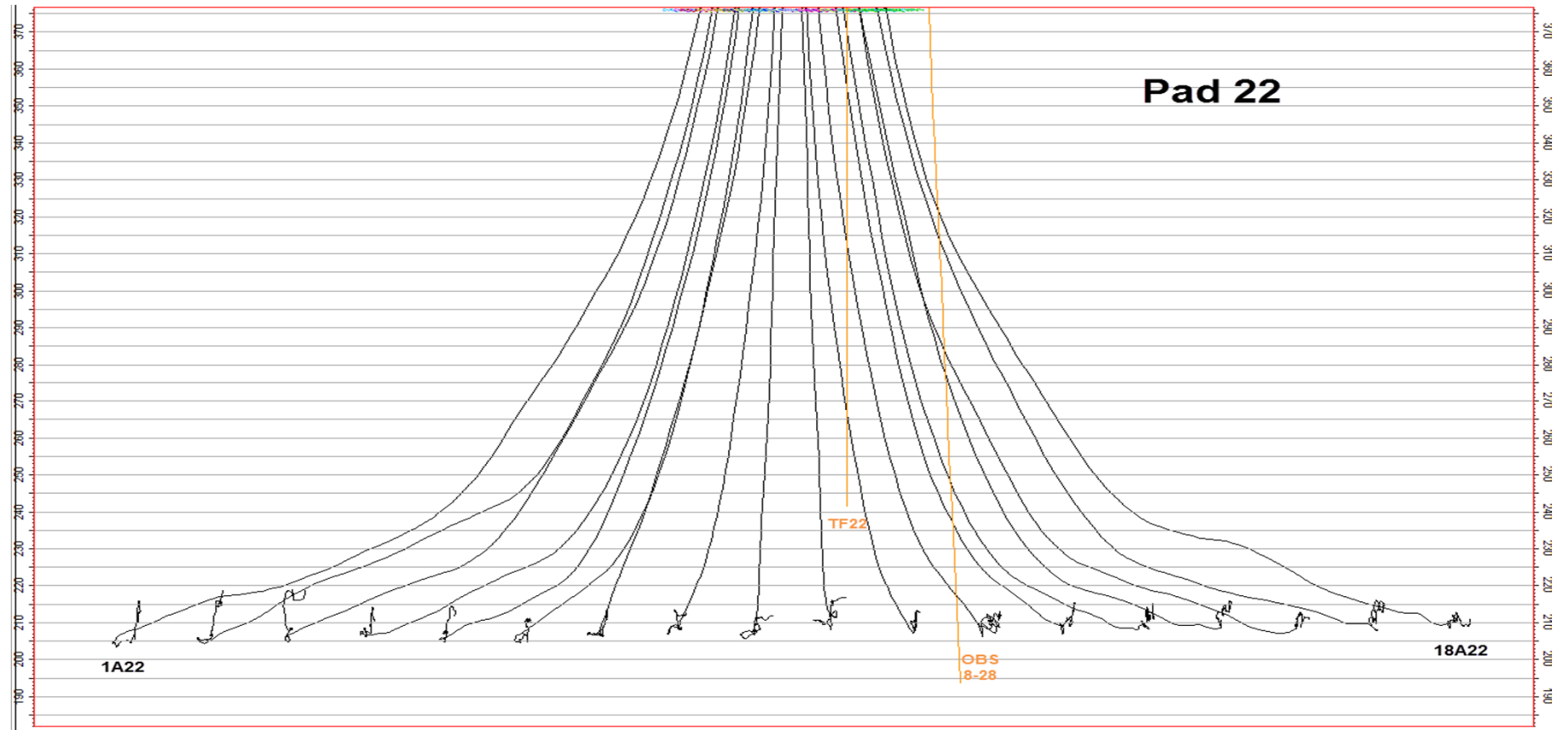


Observation Wells - Primrose South Phases 22-24



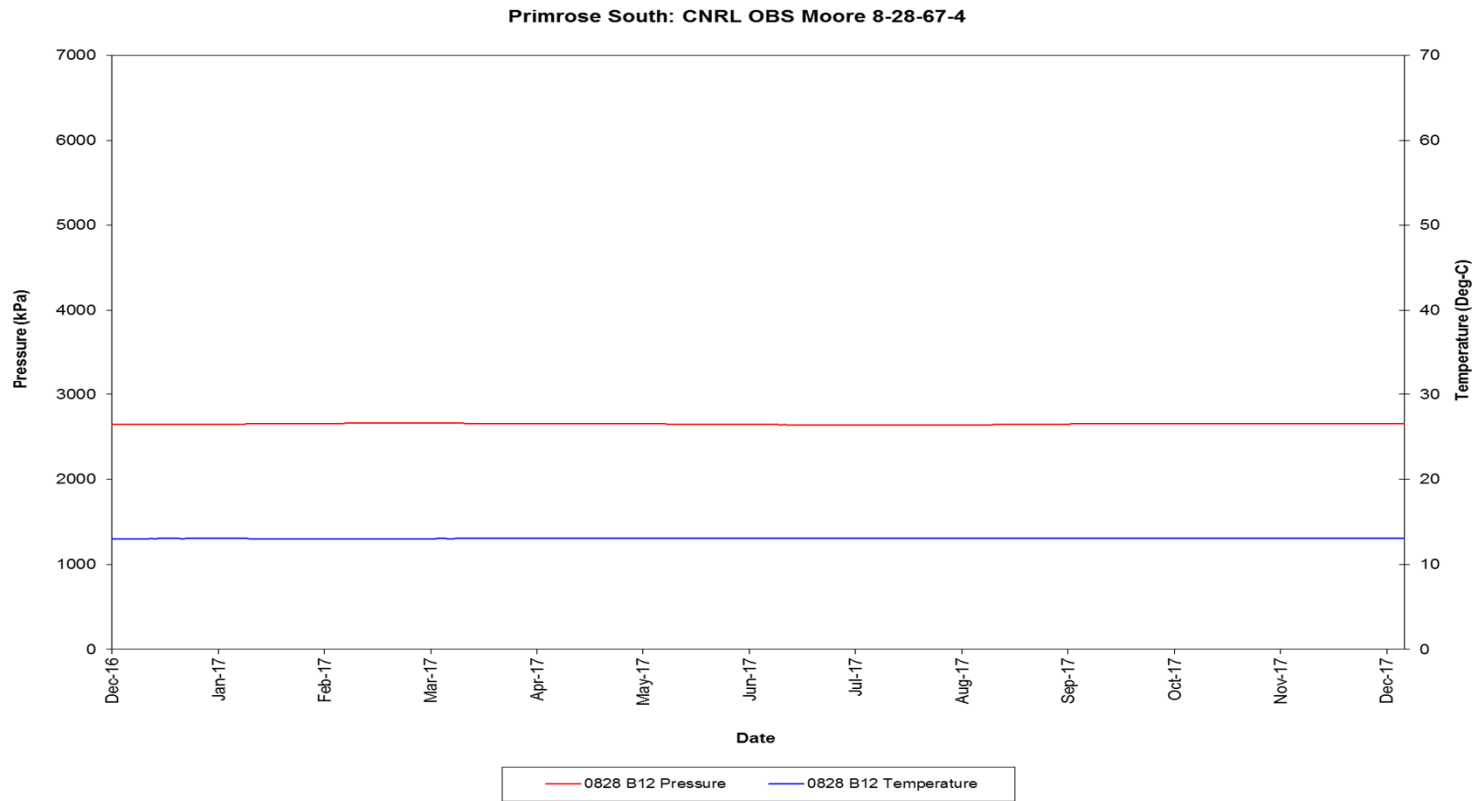
Primrose South B12

Pressure & Temperature Monitoring – Phase 22



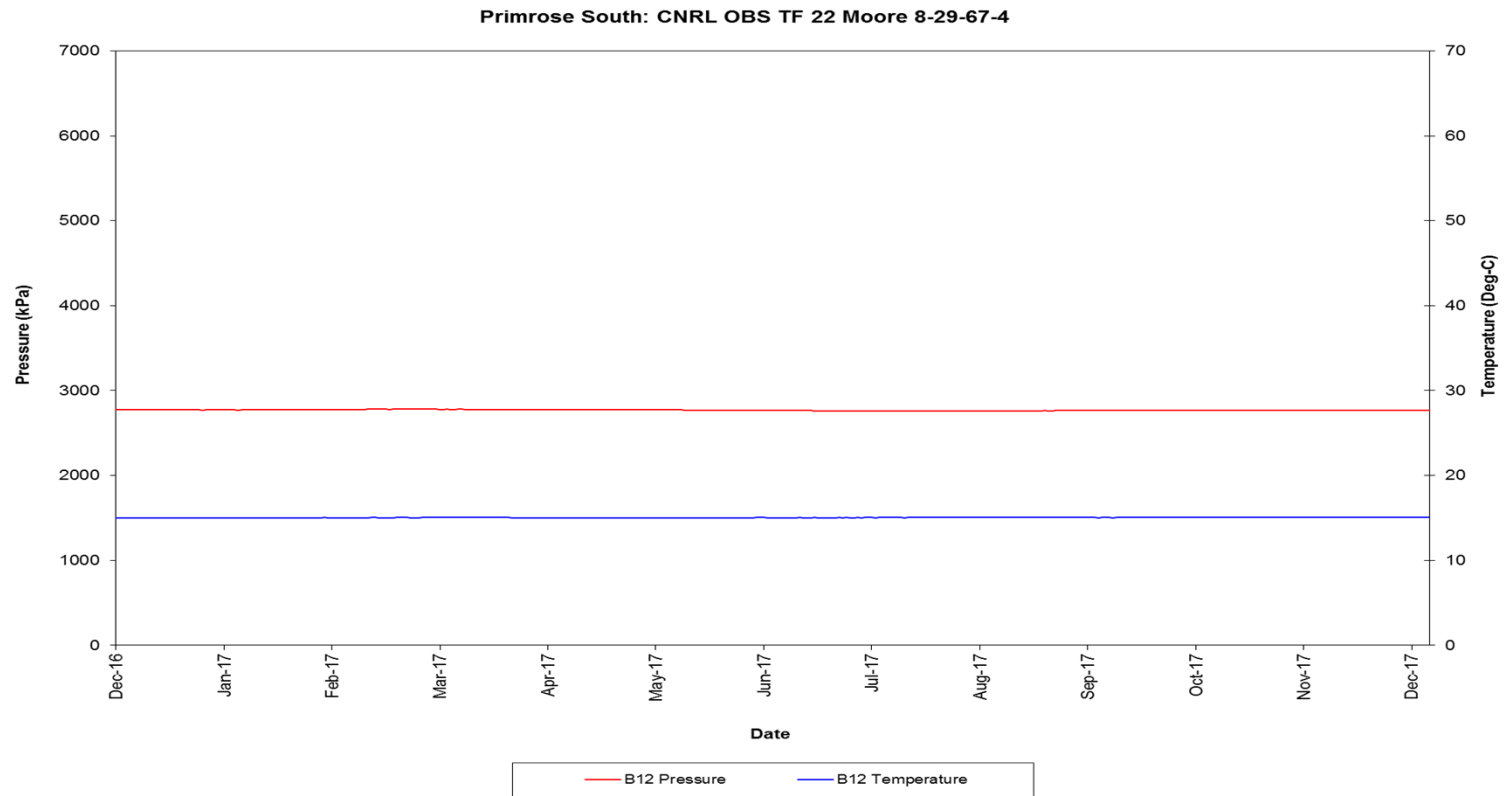
Primrose South B12

Pressure & Temperature Monitoring – 8-28 OBS



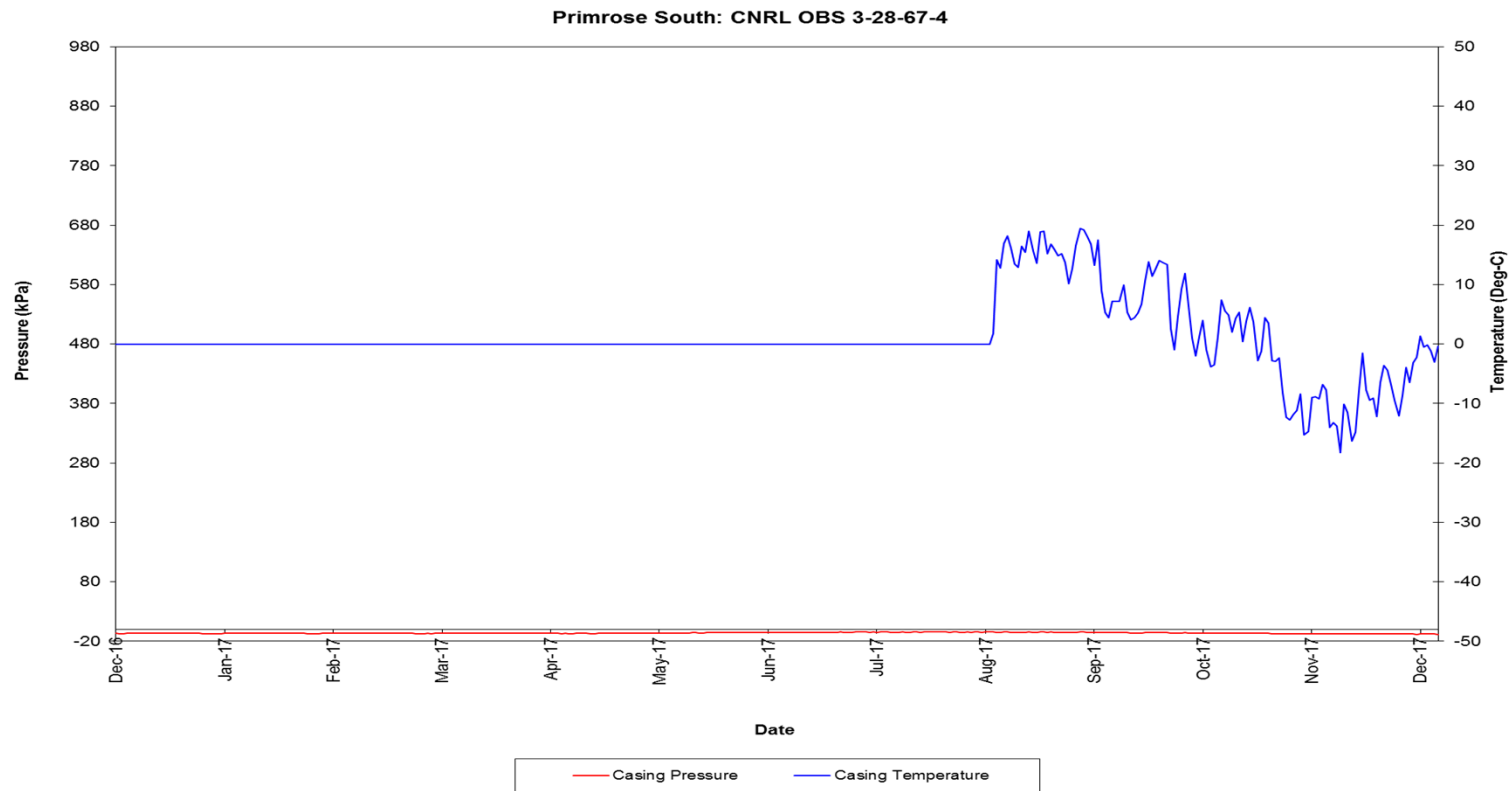
Primrose South B12

Pressure & Temperature Monitoring – TF 22



Primrose South Surface Colony

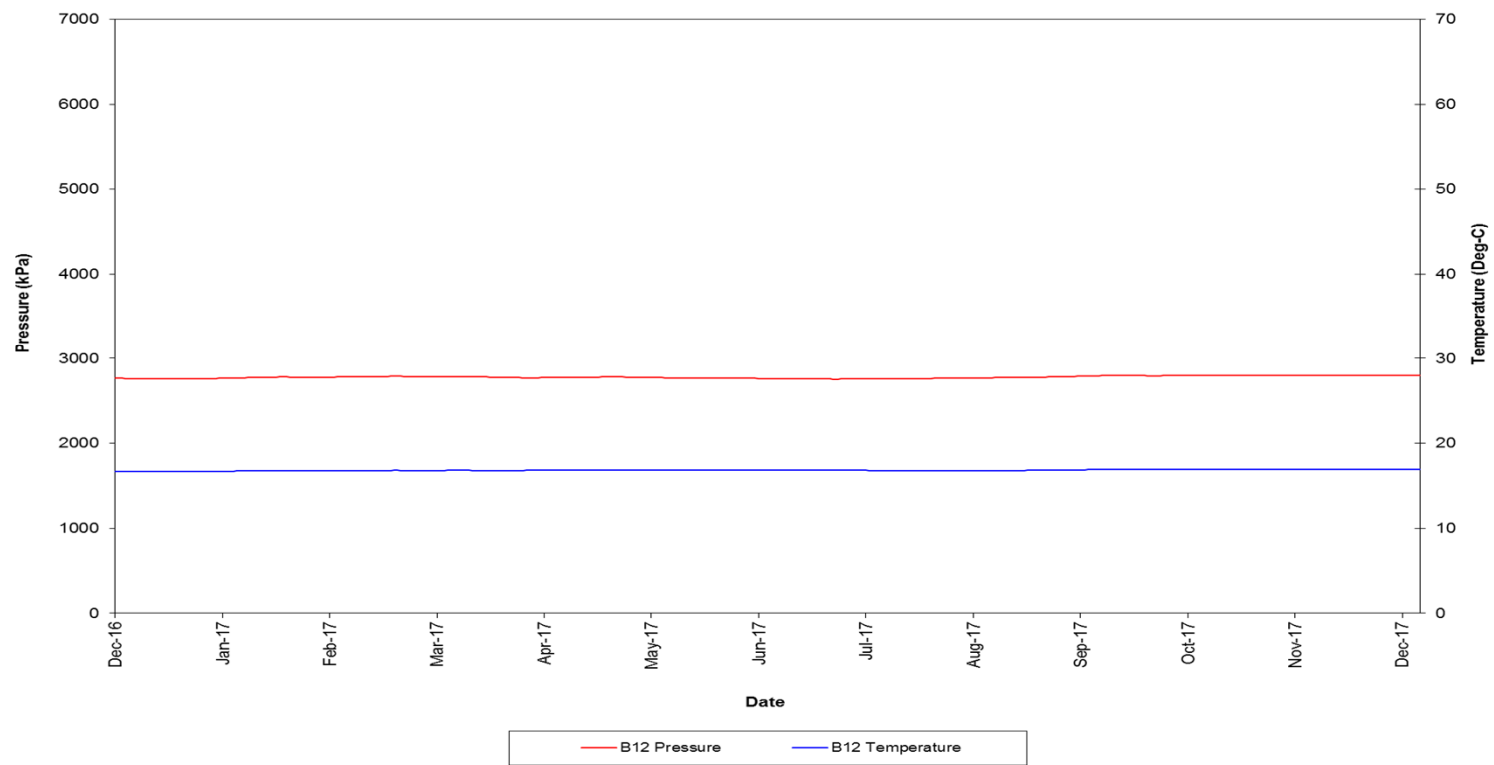
Pressure & Temperature Monitoring – 3-28



Primrose South B12

Pressure & Temperature Monitoring – 7-28

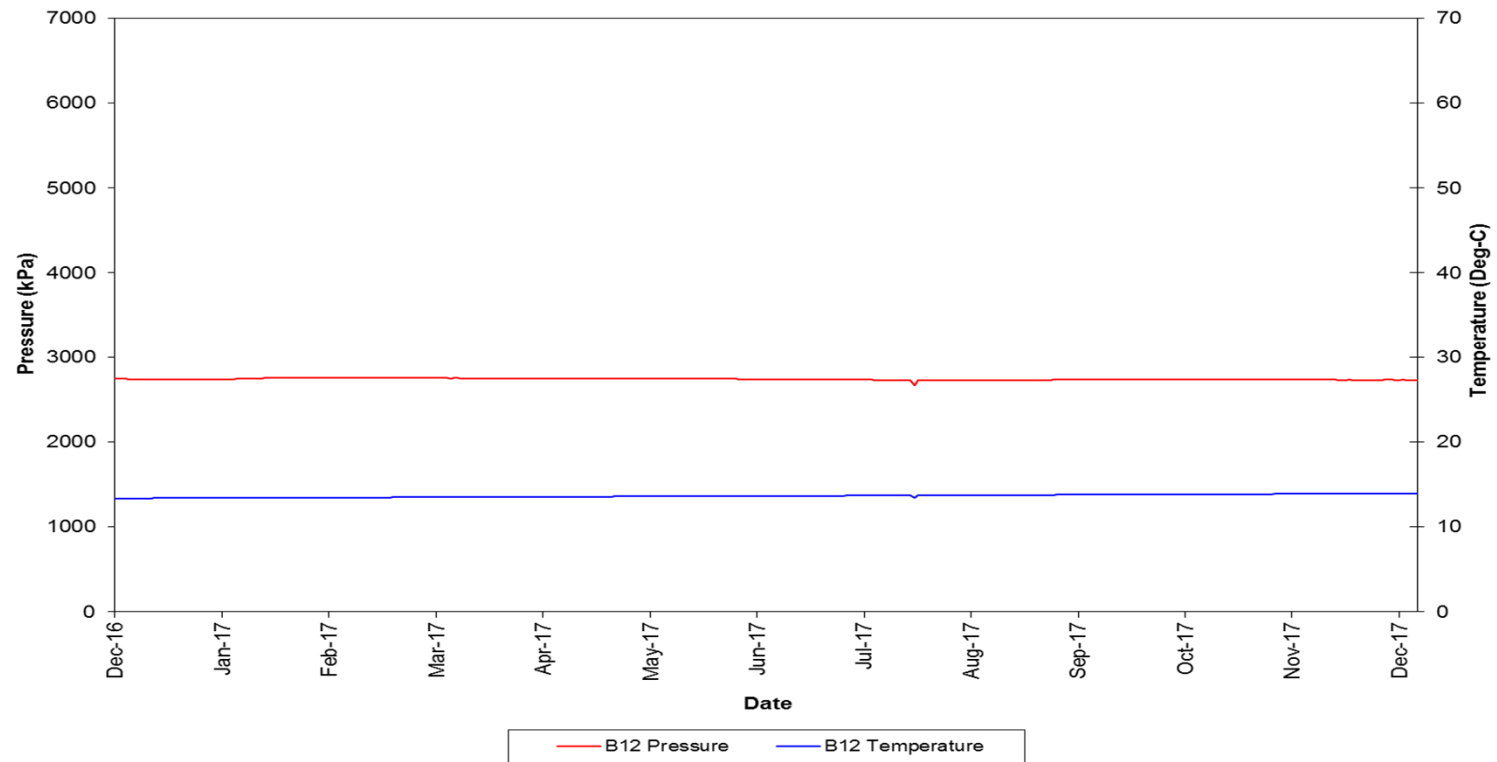
Primrose South: CNRL OB3 Moore 7-28-67-4



Primrose South B12

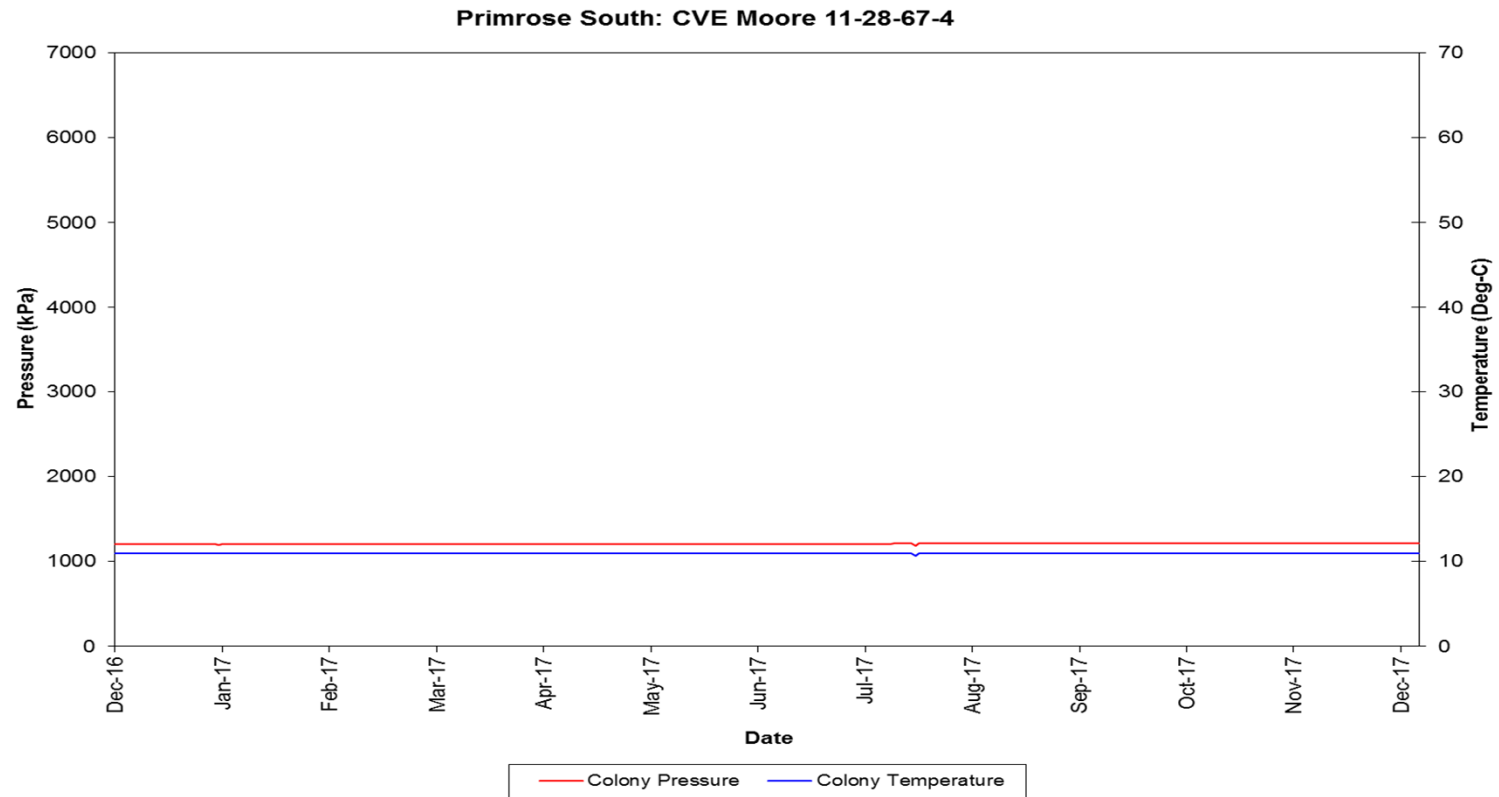
Pressure & Temperature Monitoring – 11-28

Primrose South: CVE Moore 11-28-67-4



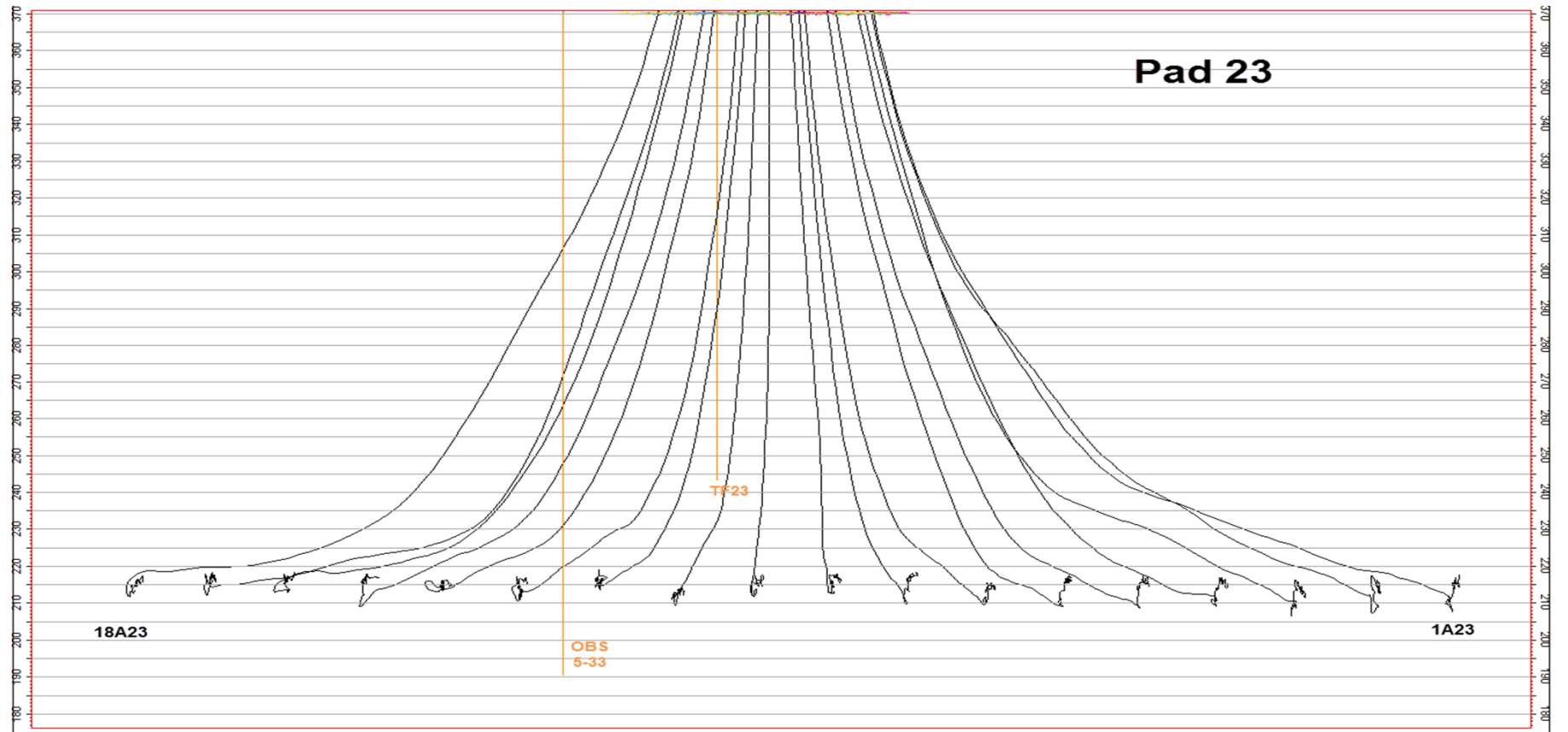
Primrose South Colony

Pressure & Temperature Monitoring – 11-28



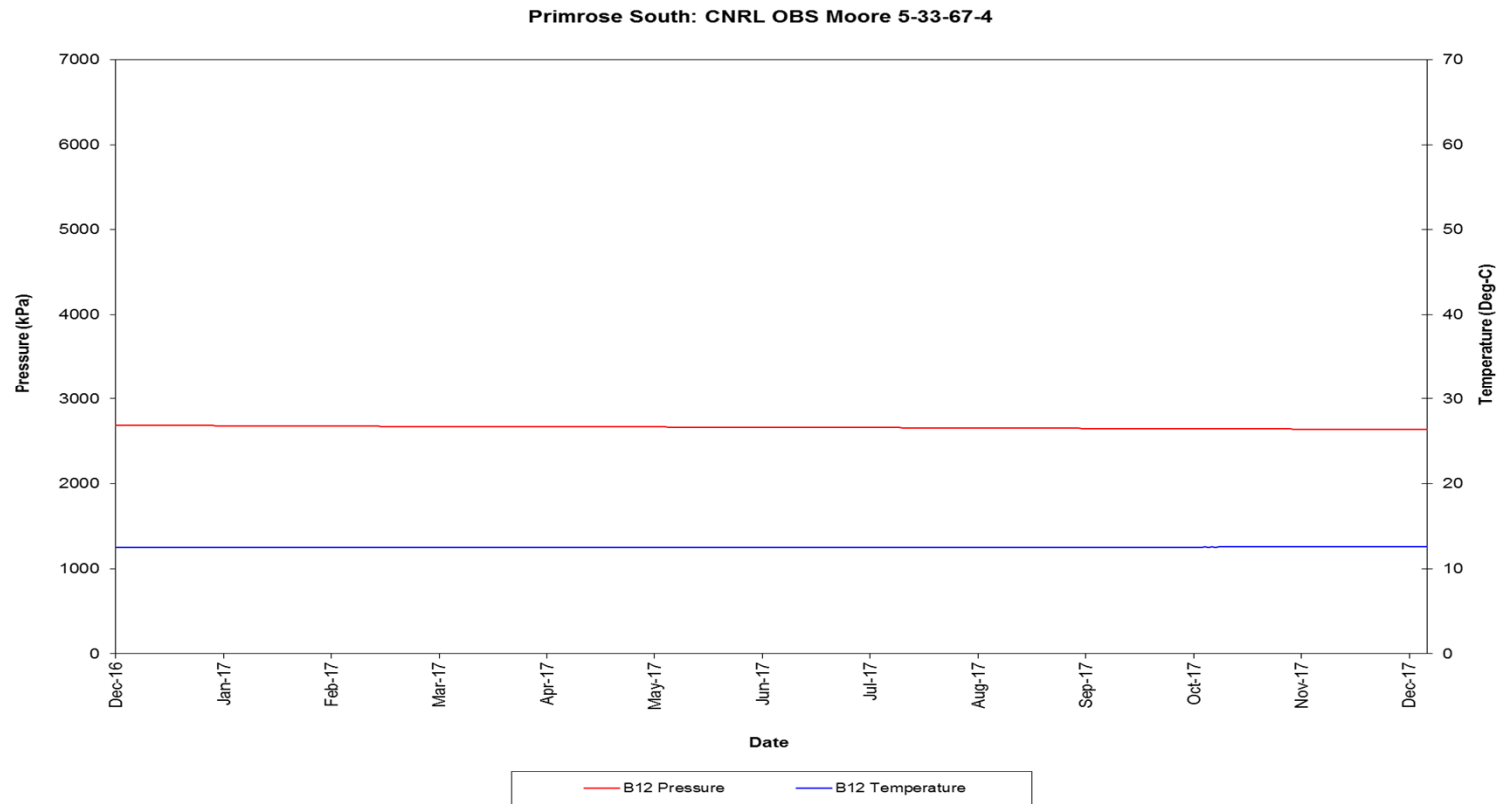
Primrose South B12

Pressure & Temperature Monitoring – Phase 23



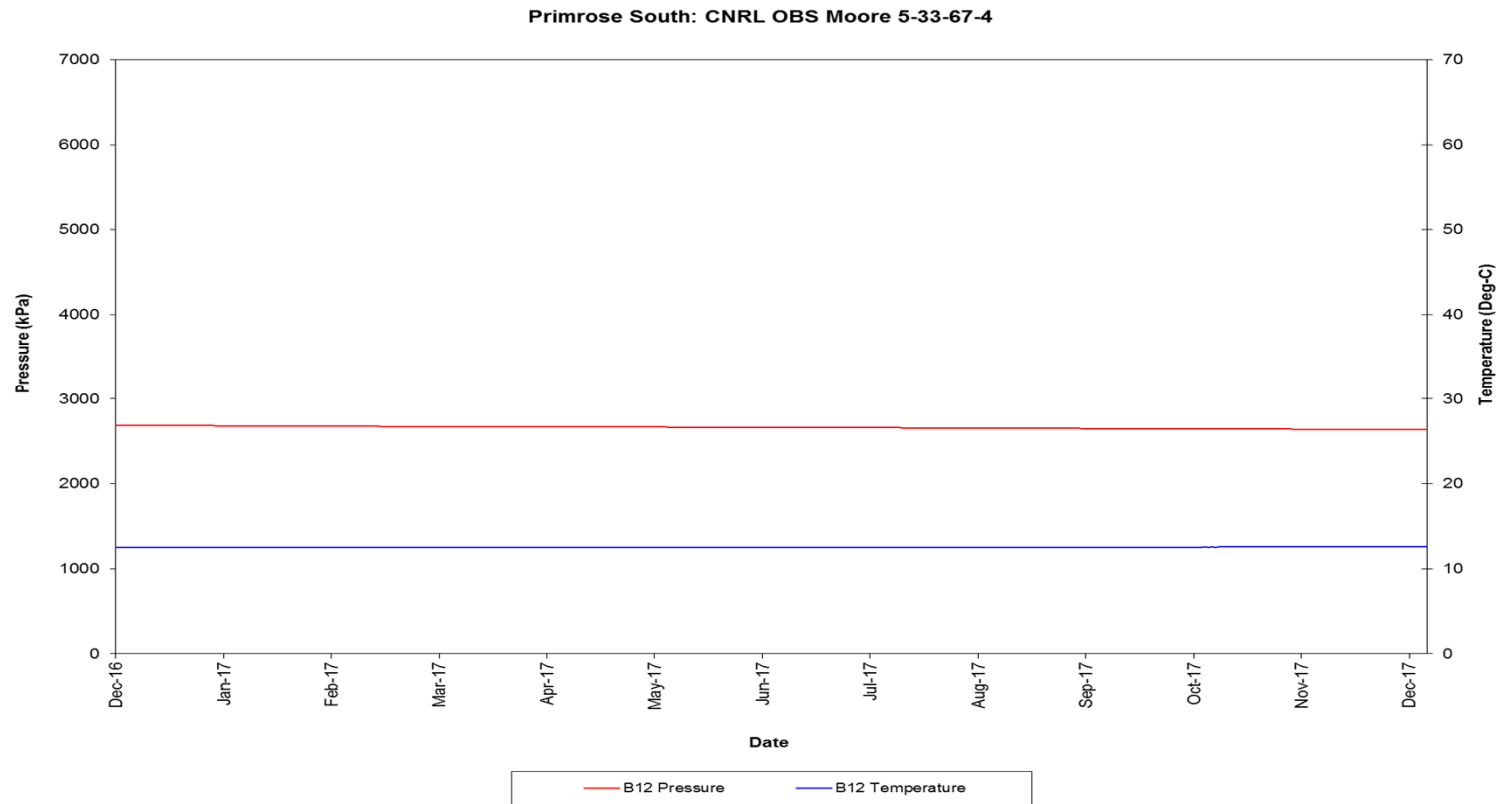
Primrose South B12

Pressure & Temperature Monitoring – 5-33 OBS



Primrose South B12

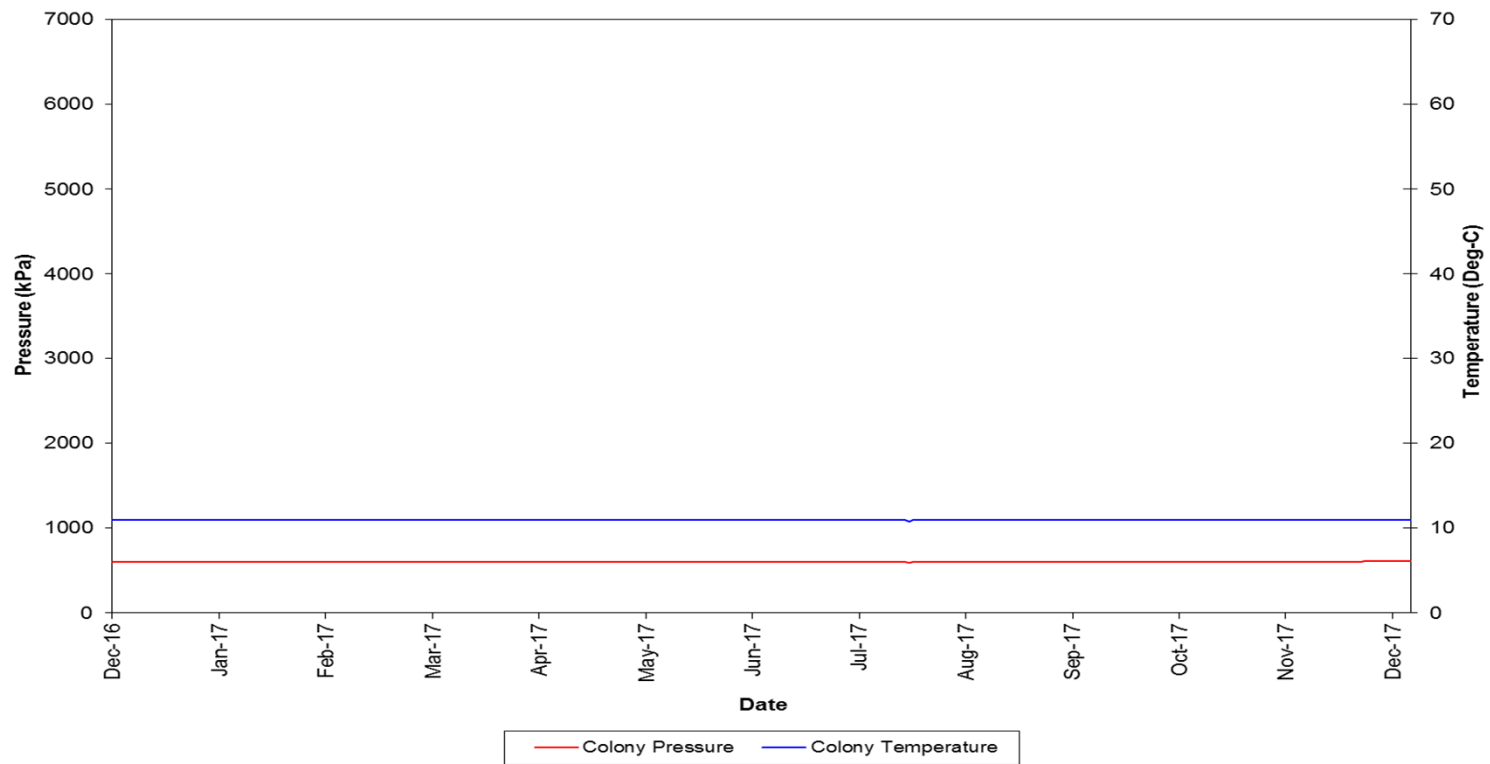
Pressure & Temperature Monitoring – 5-33 OBS



Primrose South Colony

Pressure & Temperature Monitoring – 6-33 OBS

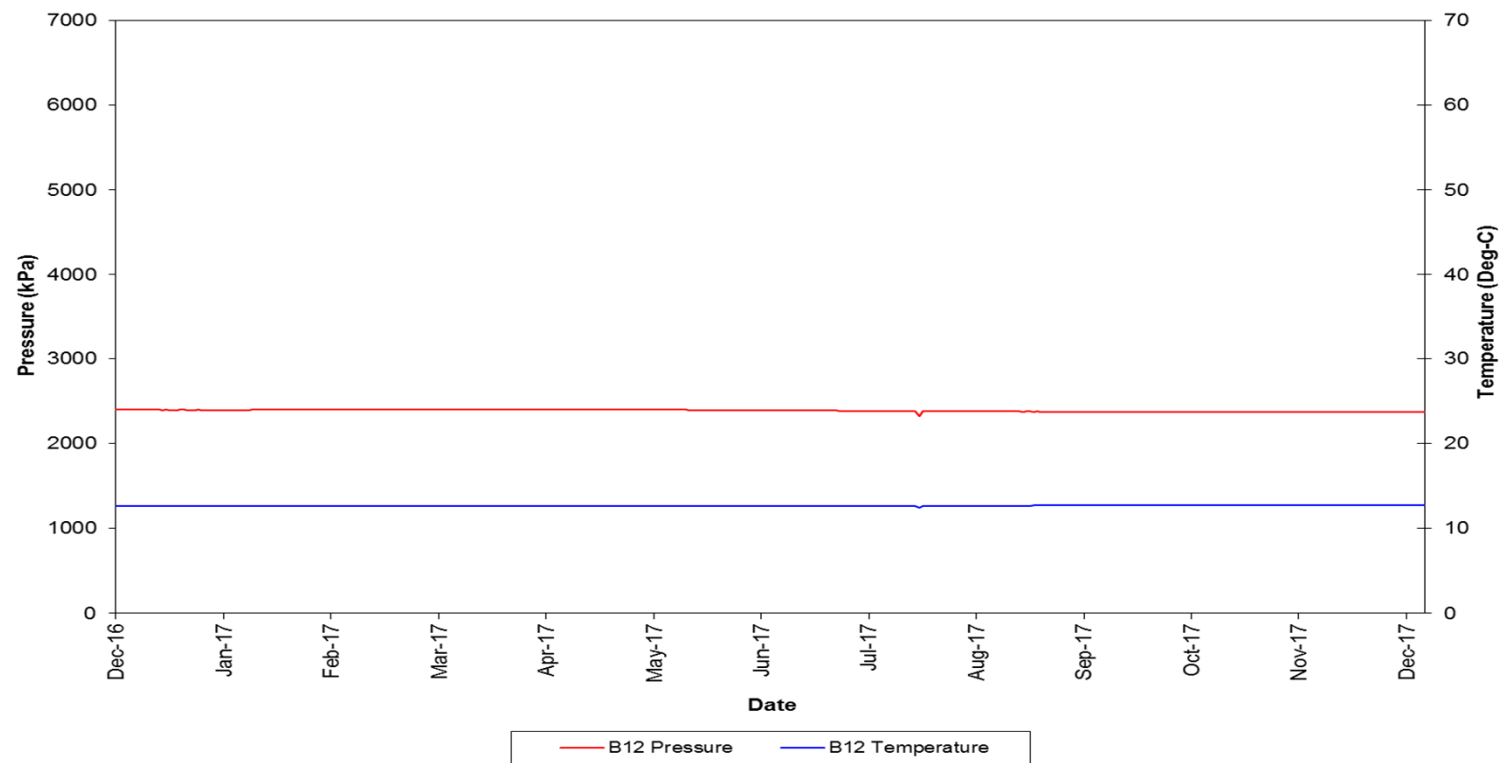
Primrose South: Amoco Primrose 6-33-67-4



Primrose South B12

Pressure & Temperature Monitoring – 7-33 OBS

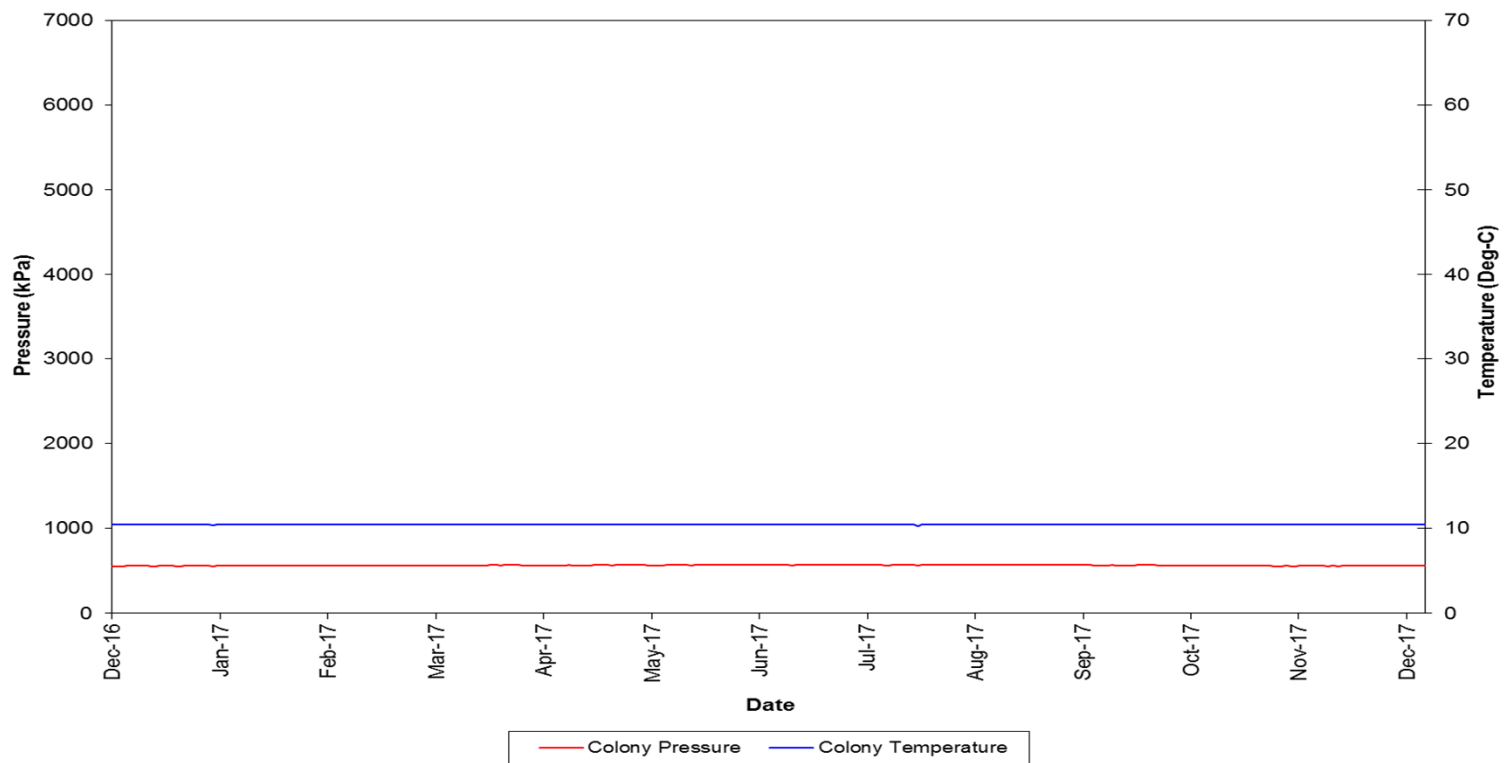
Primrose South: CVE Moore 7-33-67-4



Primrose South Colony

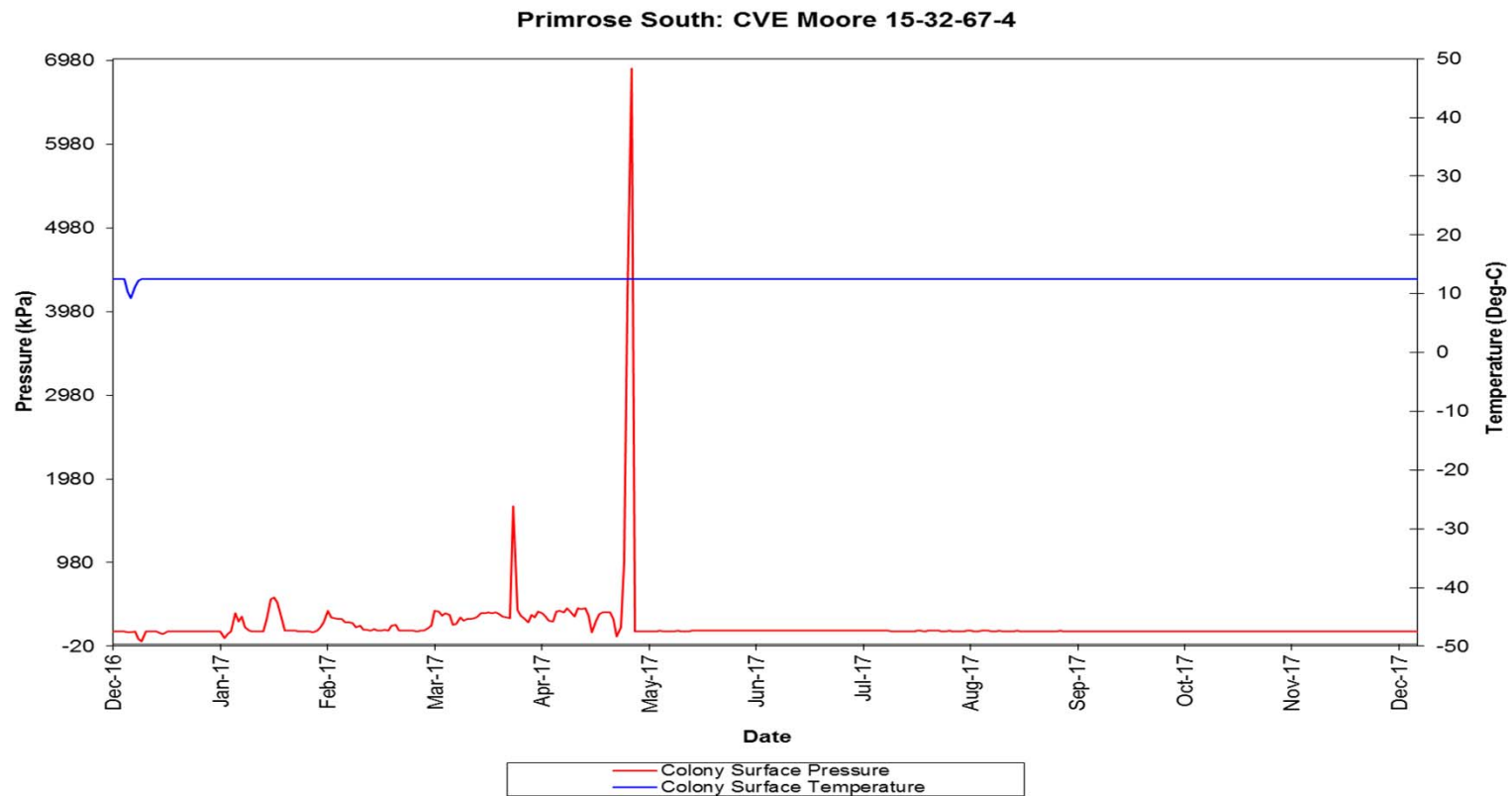
Pressure & Temperature Monitoring – 7-33 OBS

Primrose South: CVE Moore 7-33-67-4



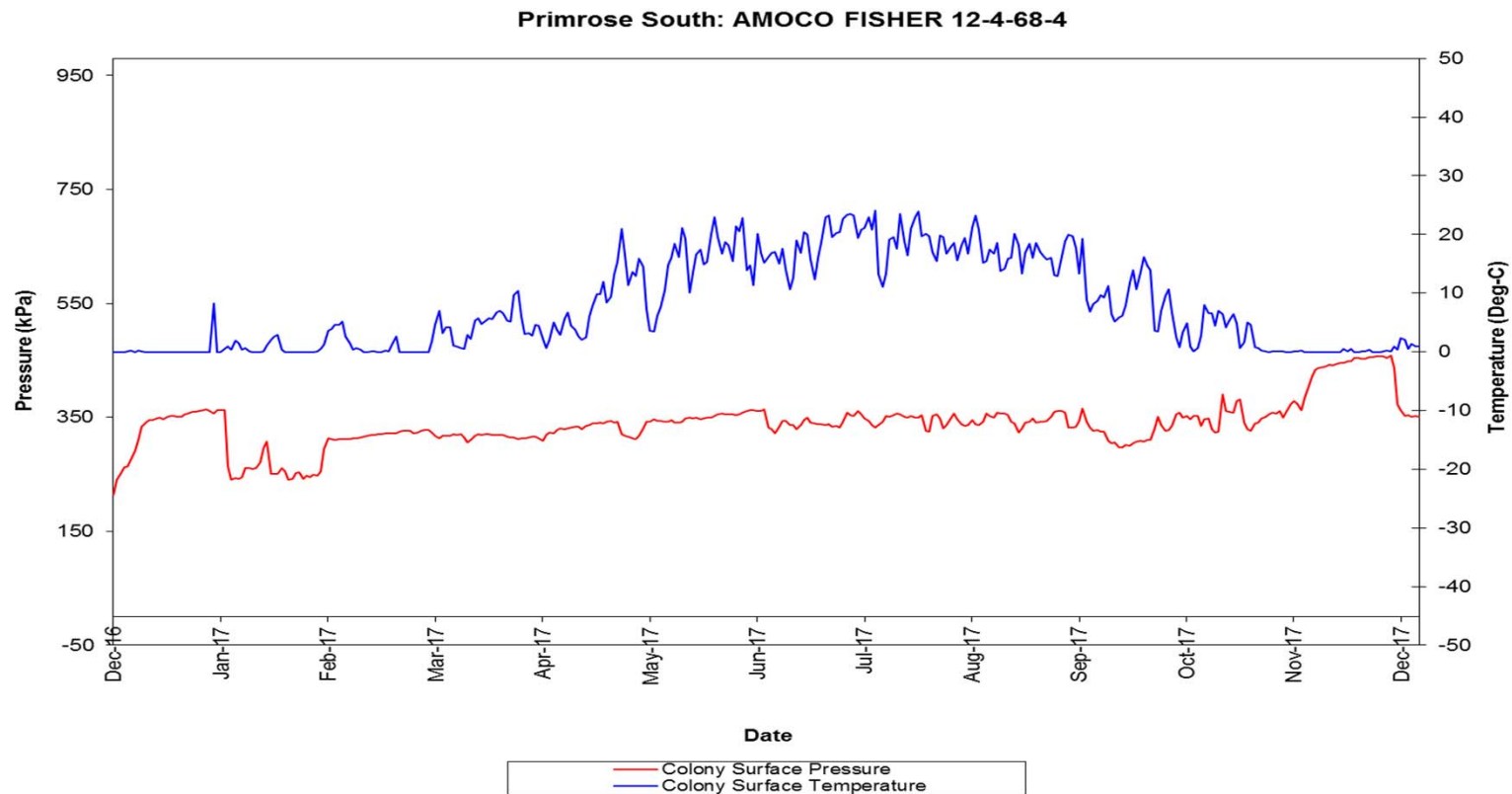
Primrose South Surface Colony

Pressure & Temperature Monitoring – 15-32 OBS



Primrose South Surface Colony

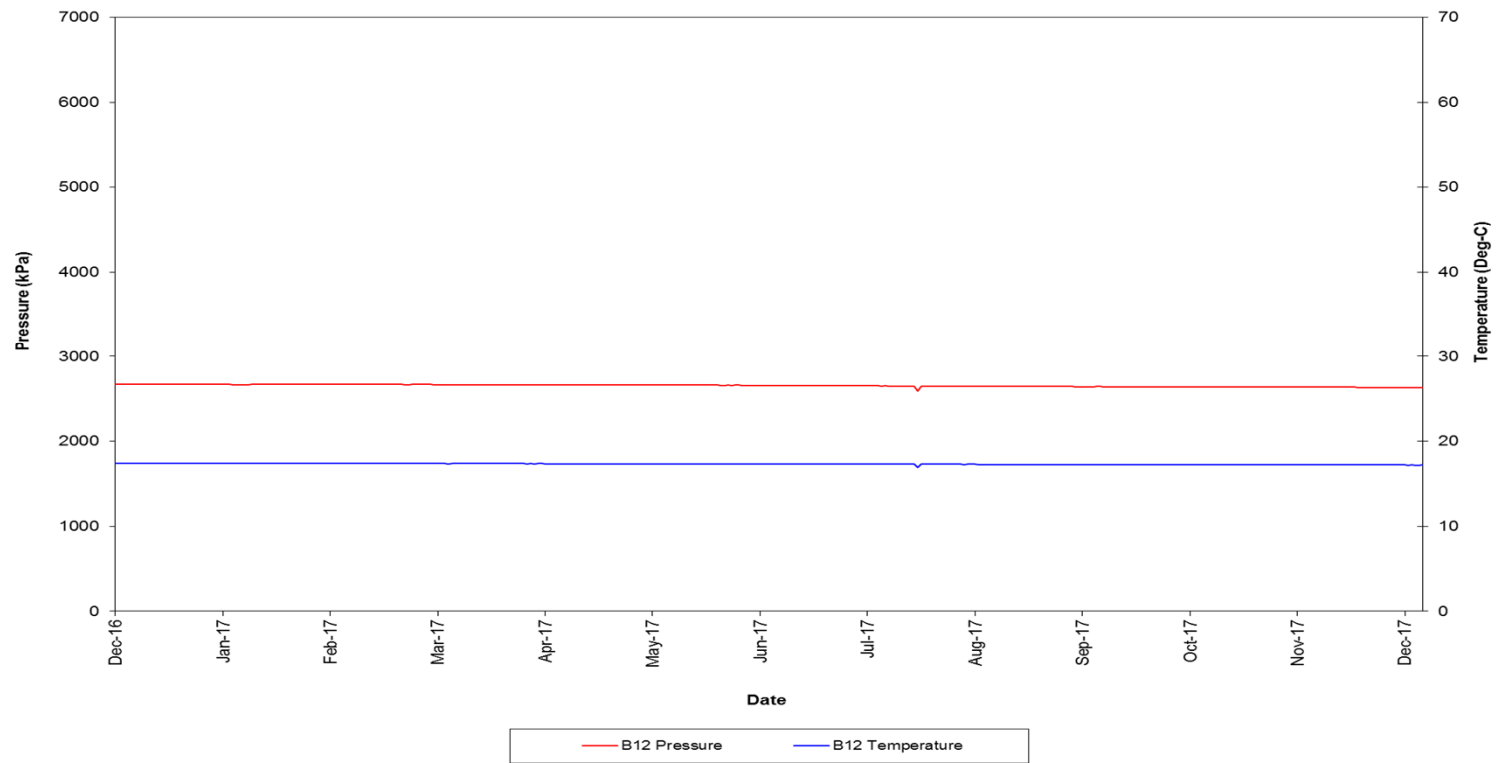
Pressure & Temperature Monitoring – 12-04 OBS



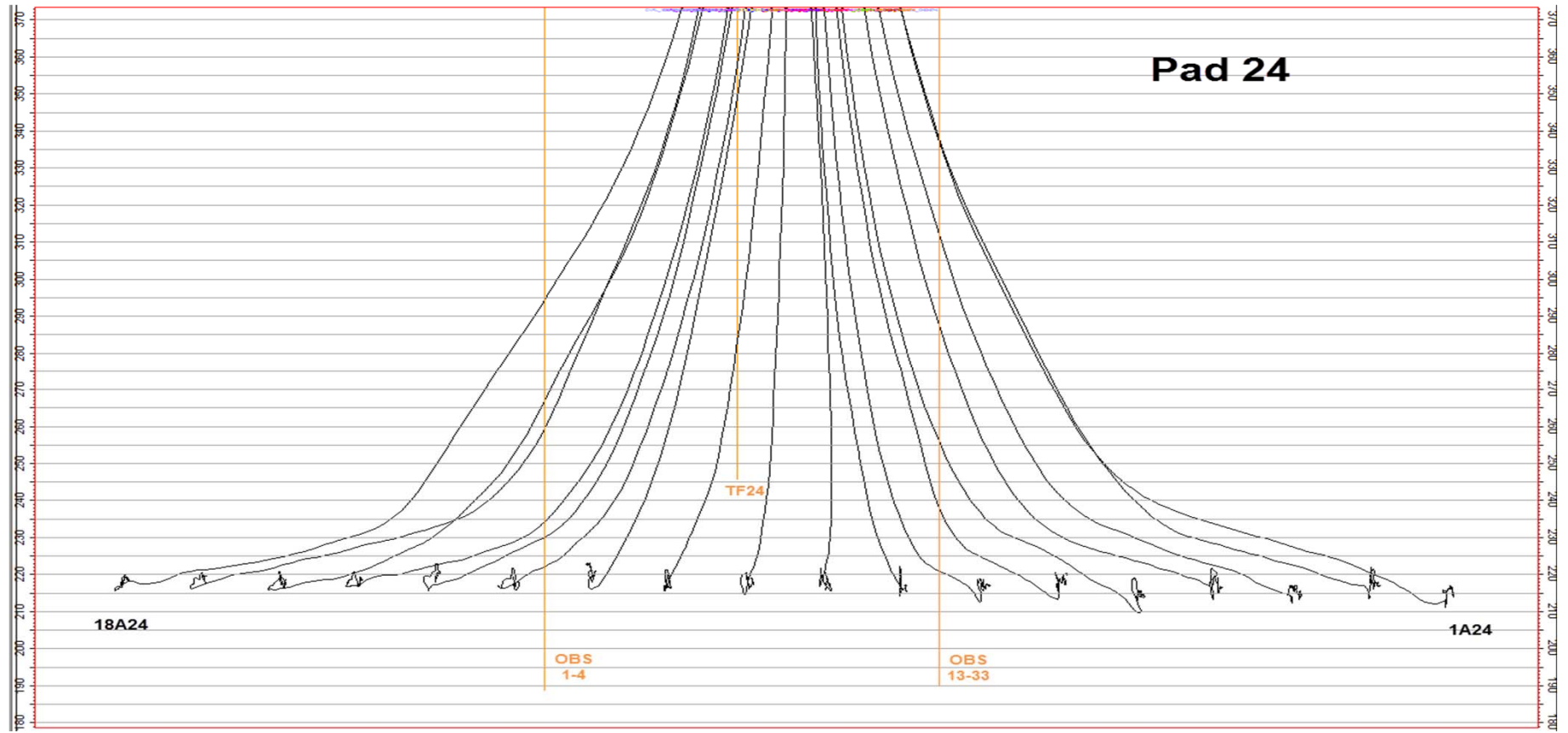
Primrose South B12

Pressure & Temperature Monitoring – TF 23

Primrose South: CNRL OBS TF 23 Moore 3-34-67-4

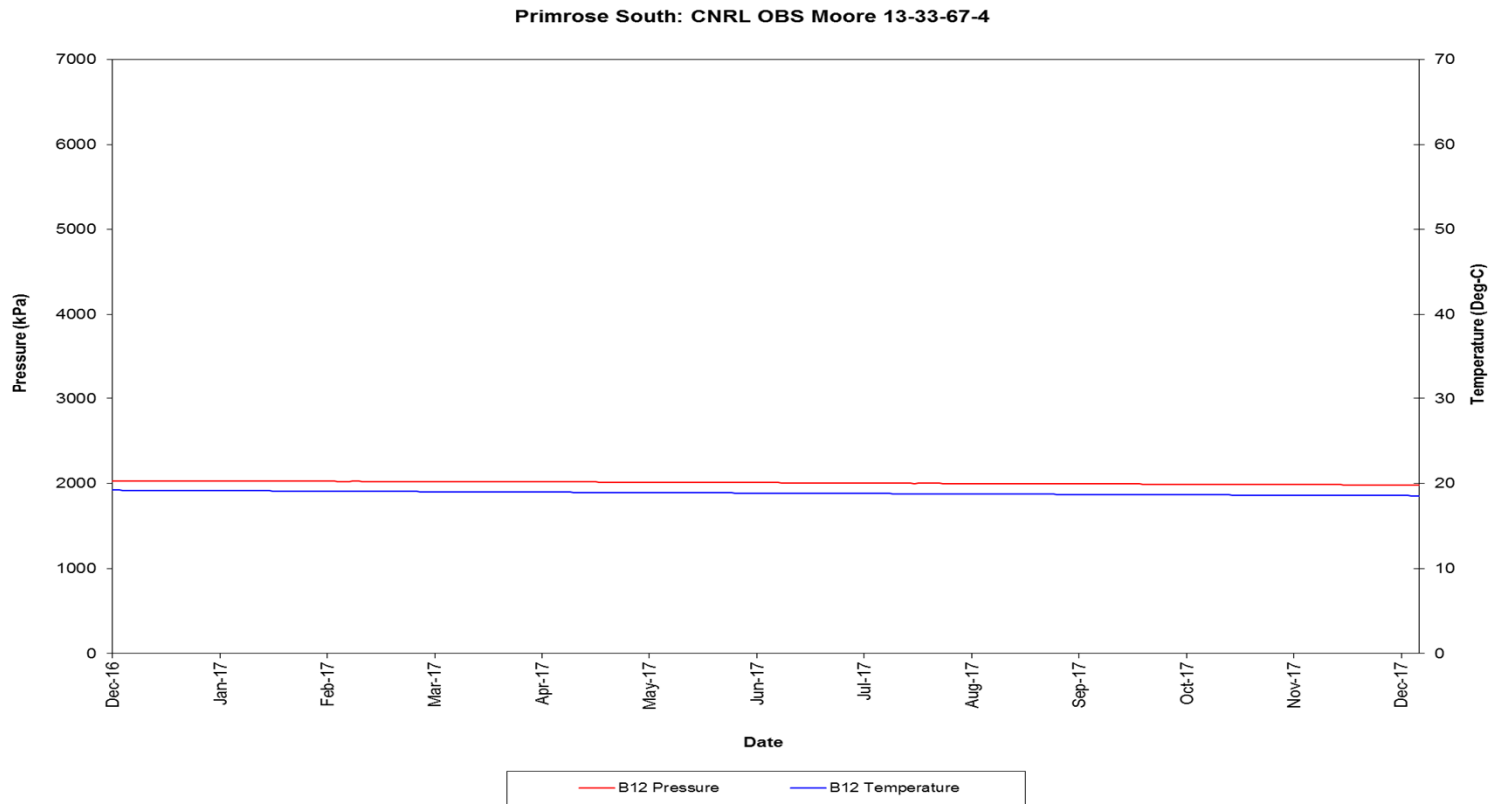


Primrose South Pressure & Temperature Monitoring – Phase 24



Primrose South B12

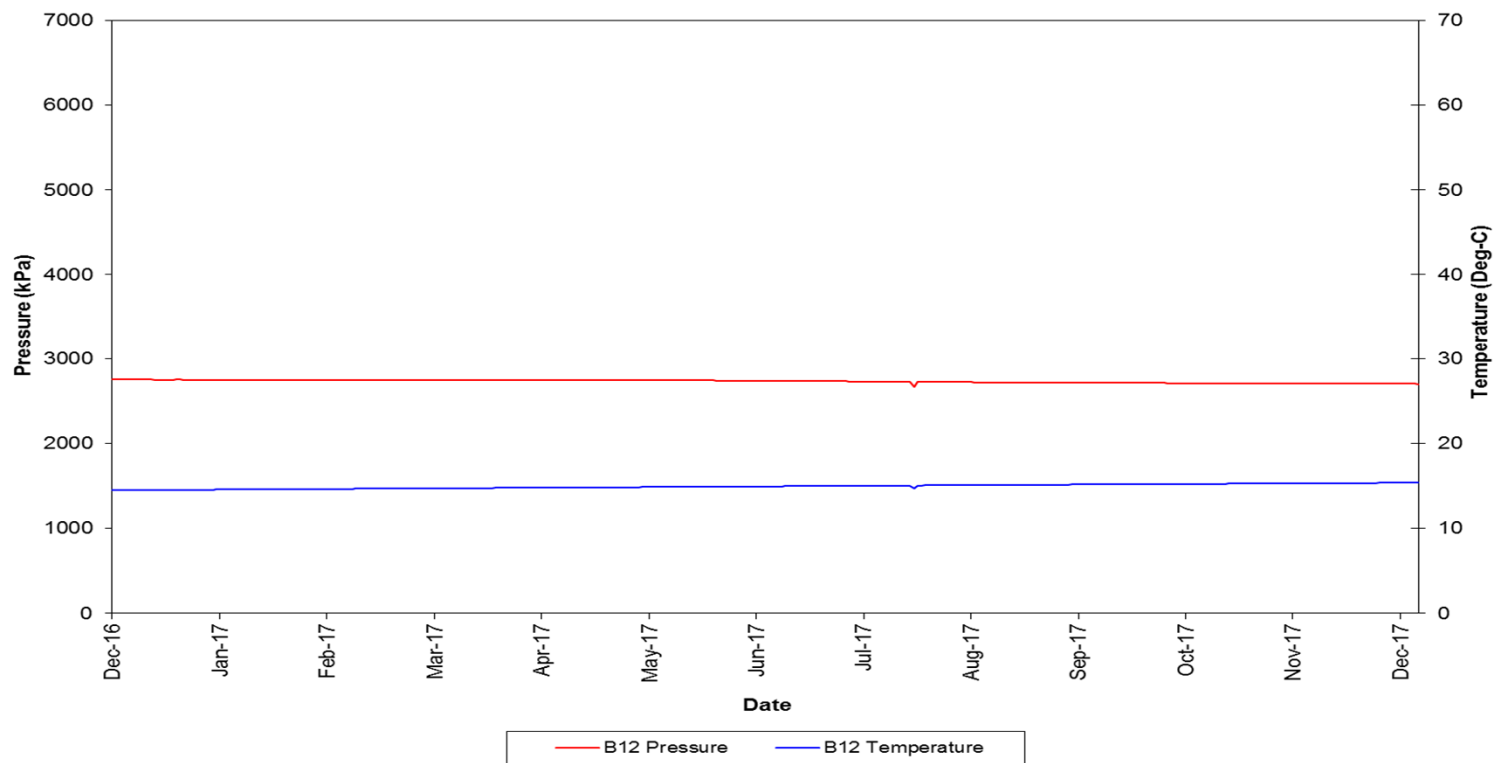
Pressure & Temperature Monitoring – 13-33 OBS



Primrose South B12

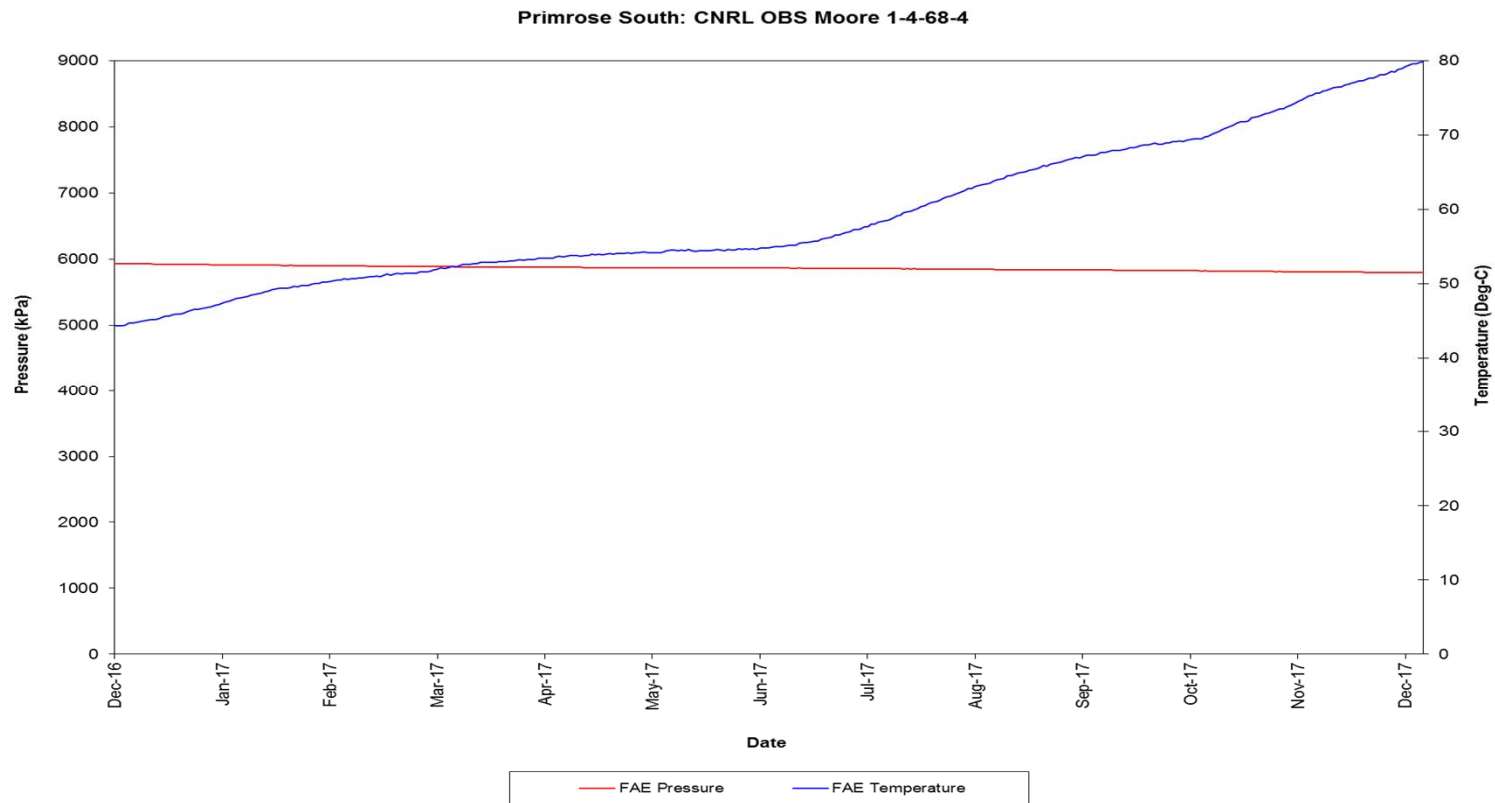
Pressure & Temperature Monitoring – 15-33 OBS

Primrose South: CNRL OBS Moore 15-33-67-4



Primrose South B12

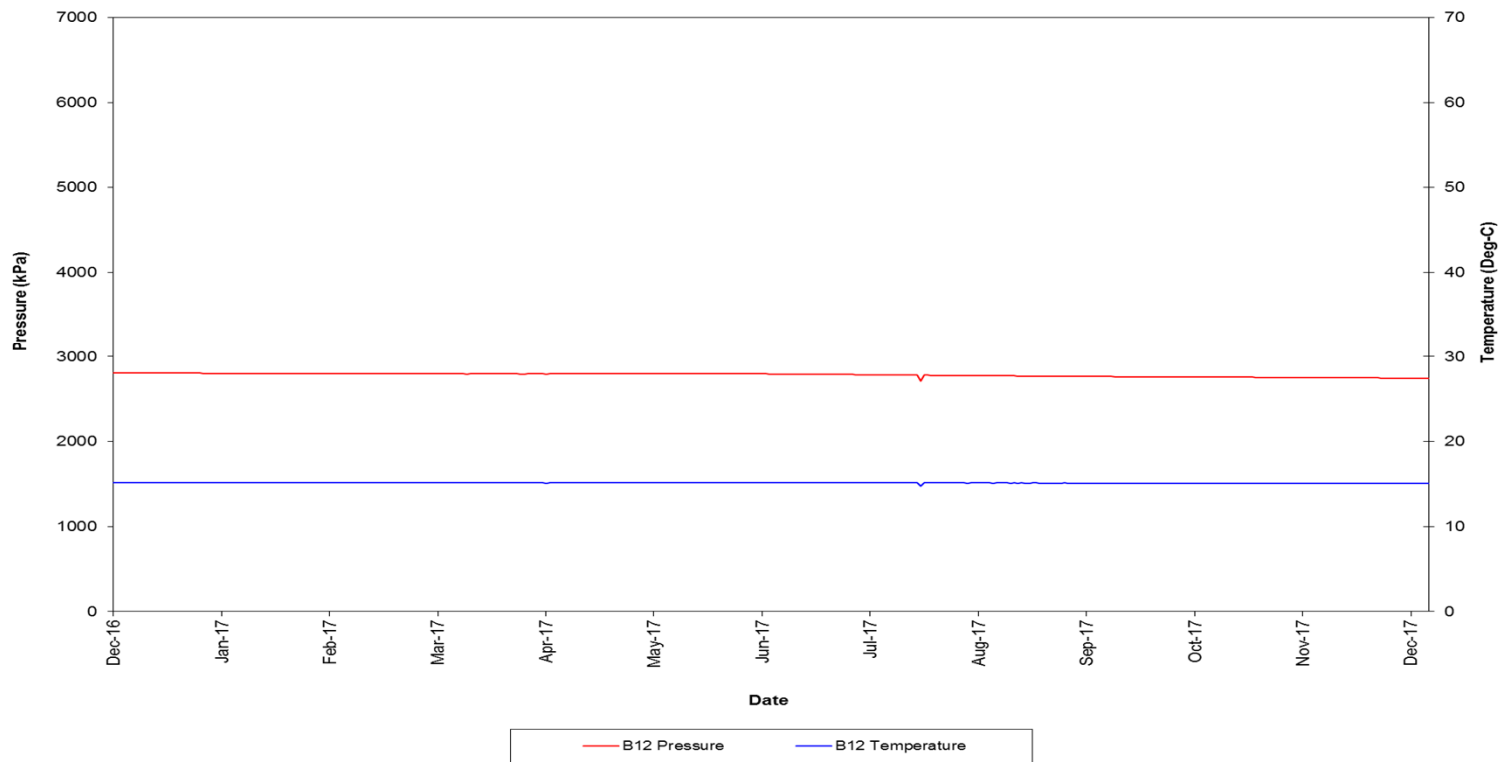
Pressure & Temperature Monitoring – 1-4 OBS



Primrose South B12

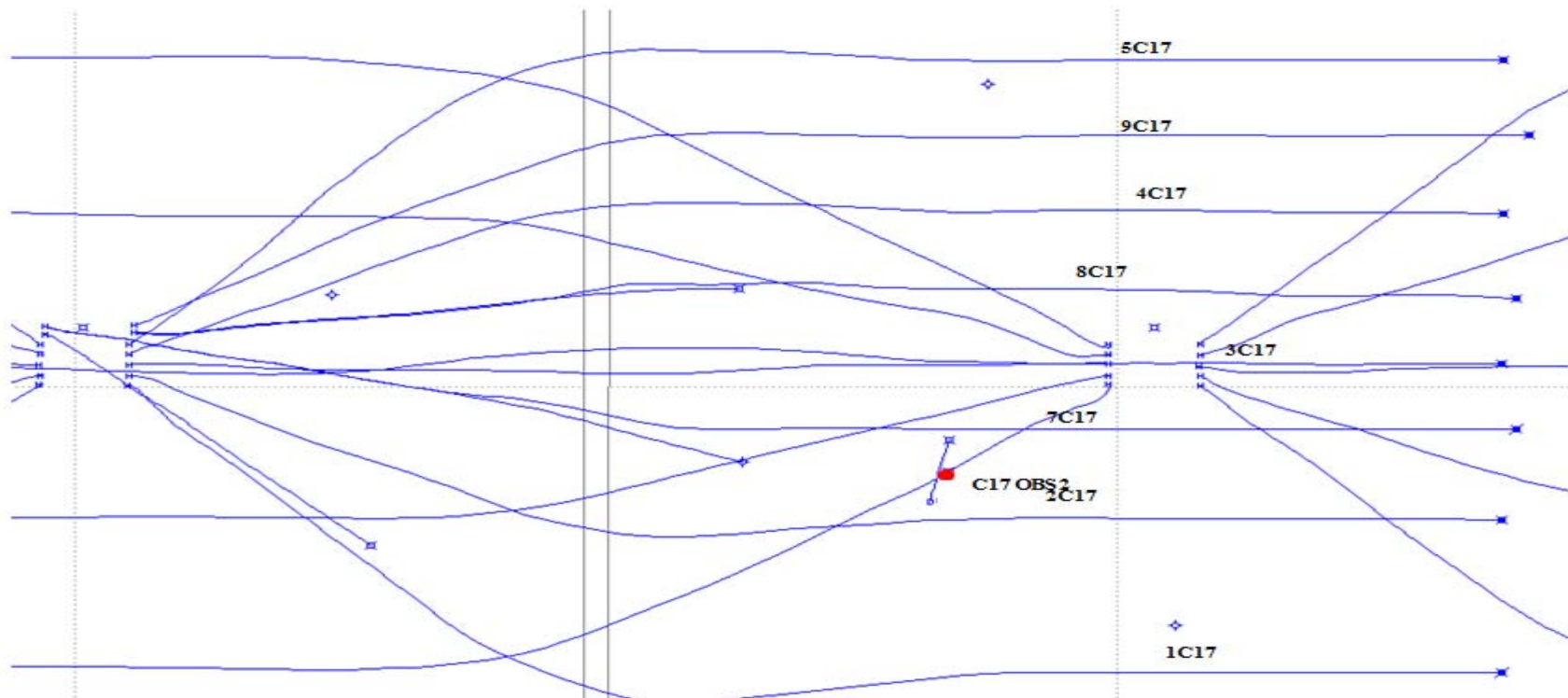
Pressure & Temperature Monitoring – TF 24

Primrose South: CNRL OBS TF 24 Fisher 3-33-68-4



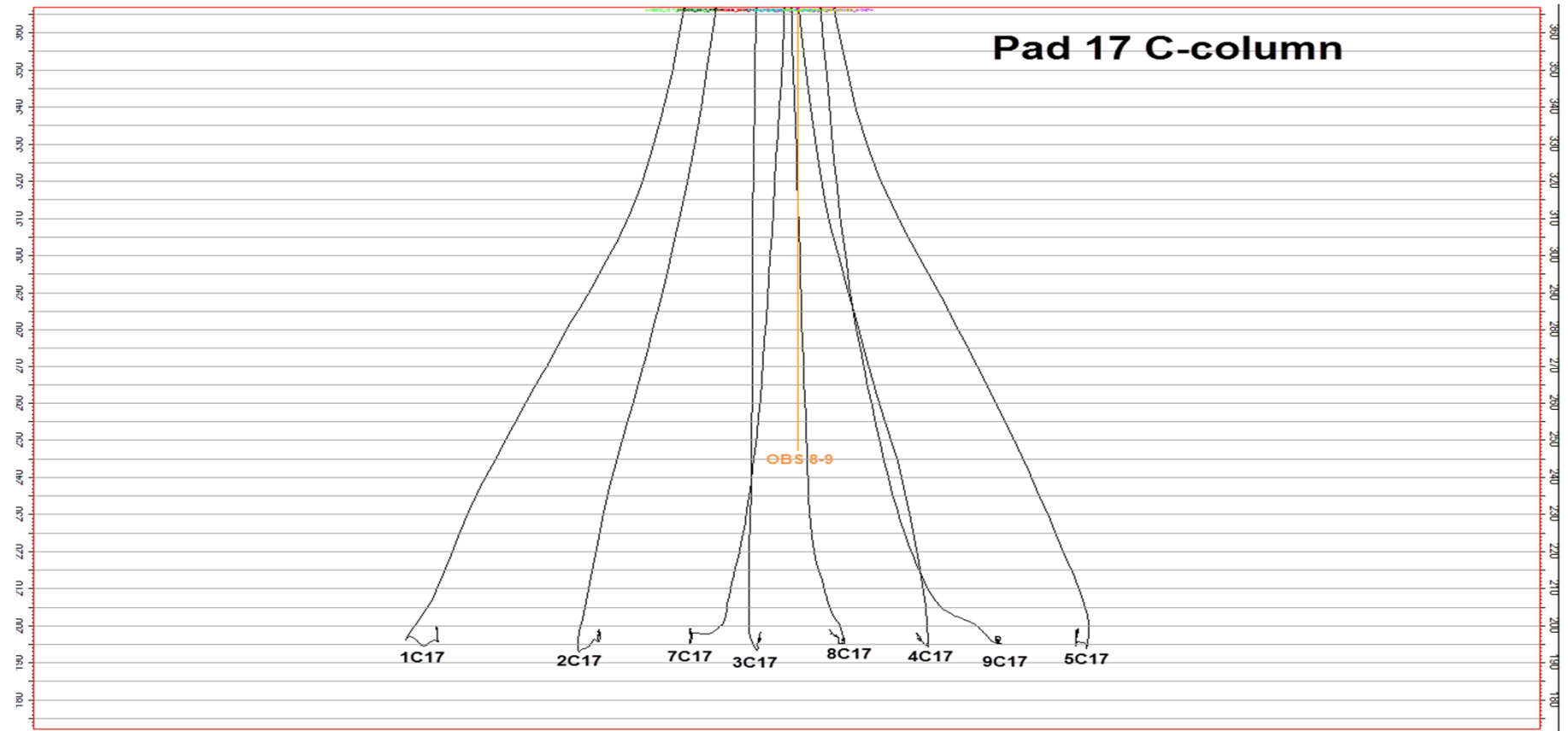
Primrose South B12

Pressure & Temperature Monitoring – C17 OBS 2



Primrose South B12

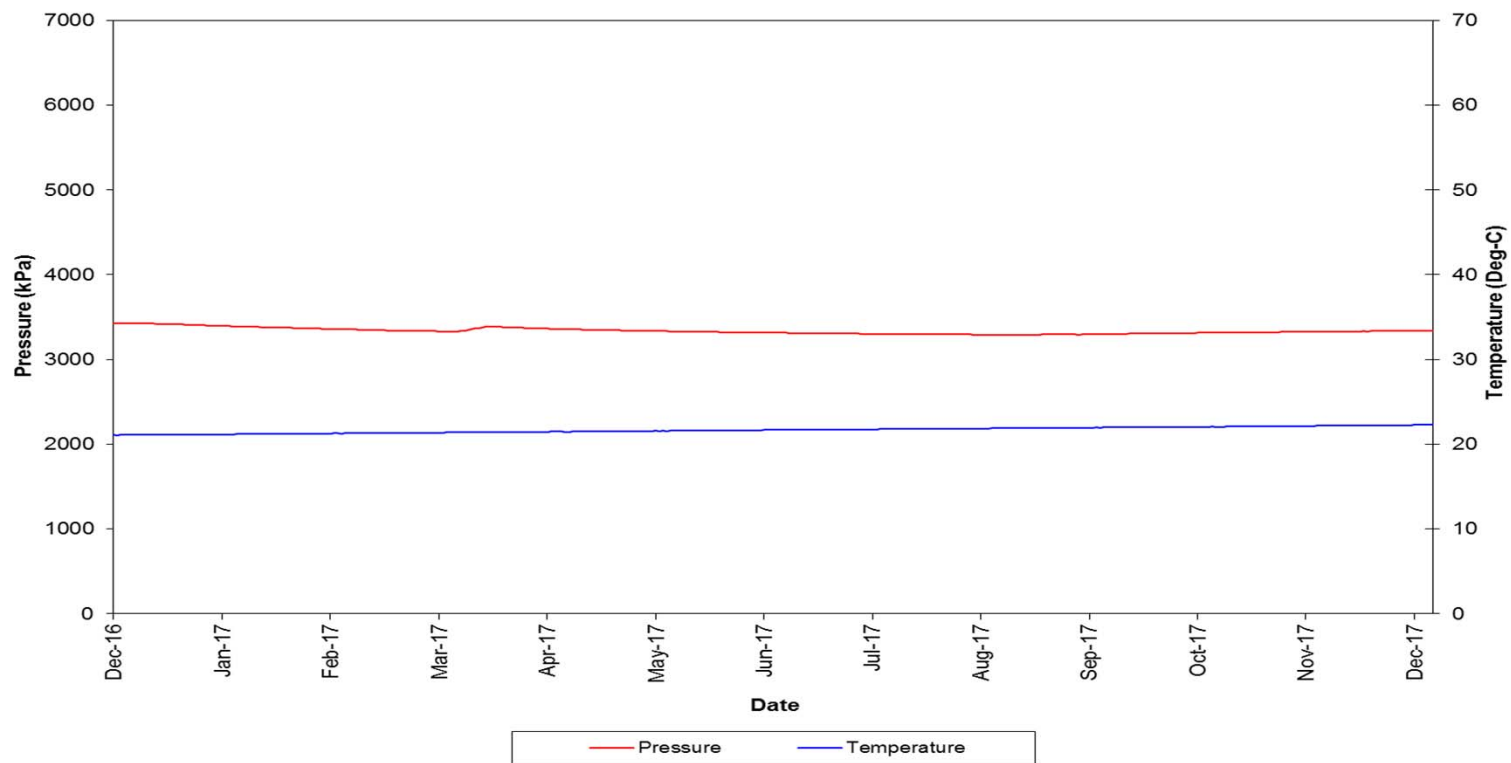
Pressure & Temperature Monitoring – C17 OBS 2



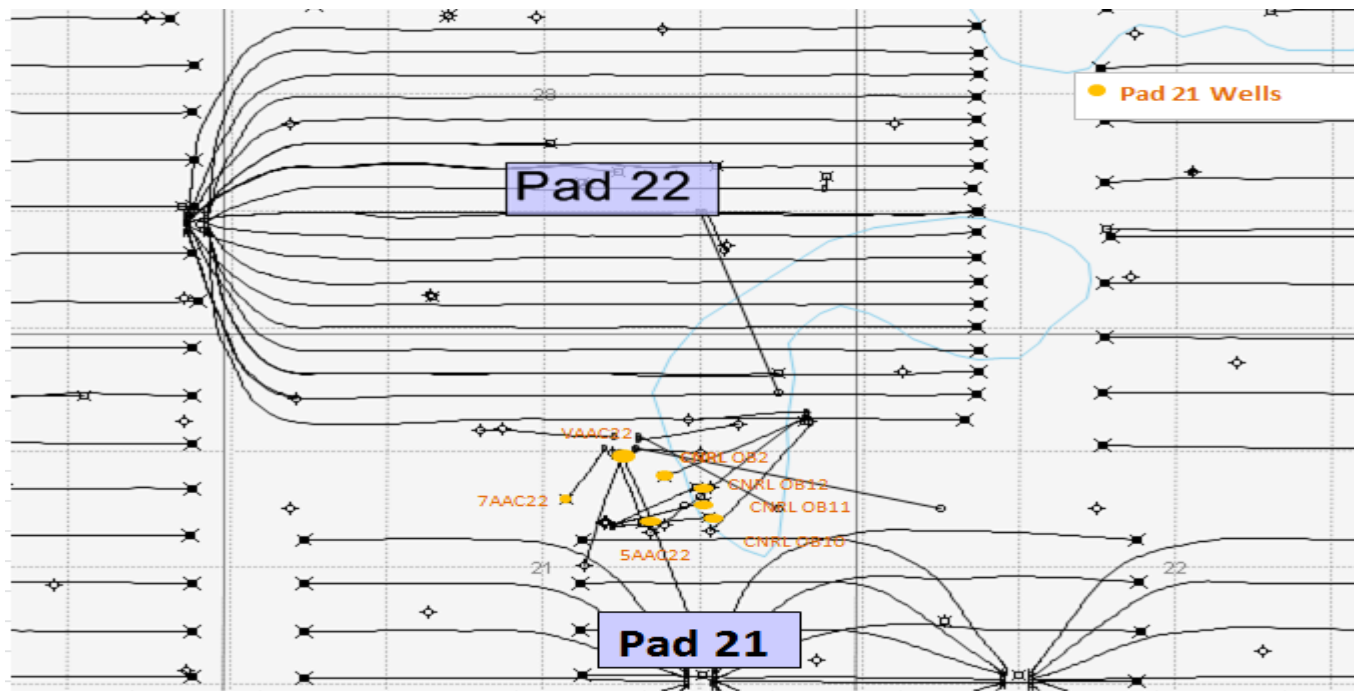
Primrose South B12

Pressure & Temperature Monitoring – C17 OBS 2

Primrose South: CNRL C17 OBS 2 Moore 4-10-67-4



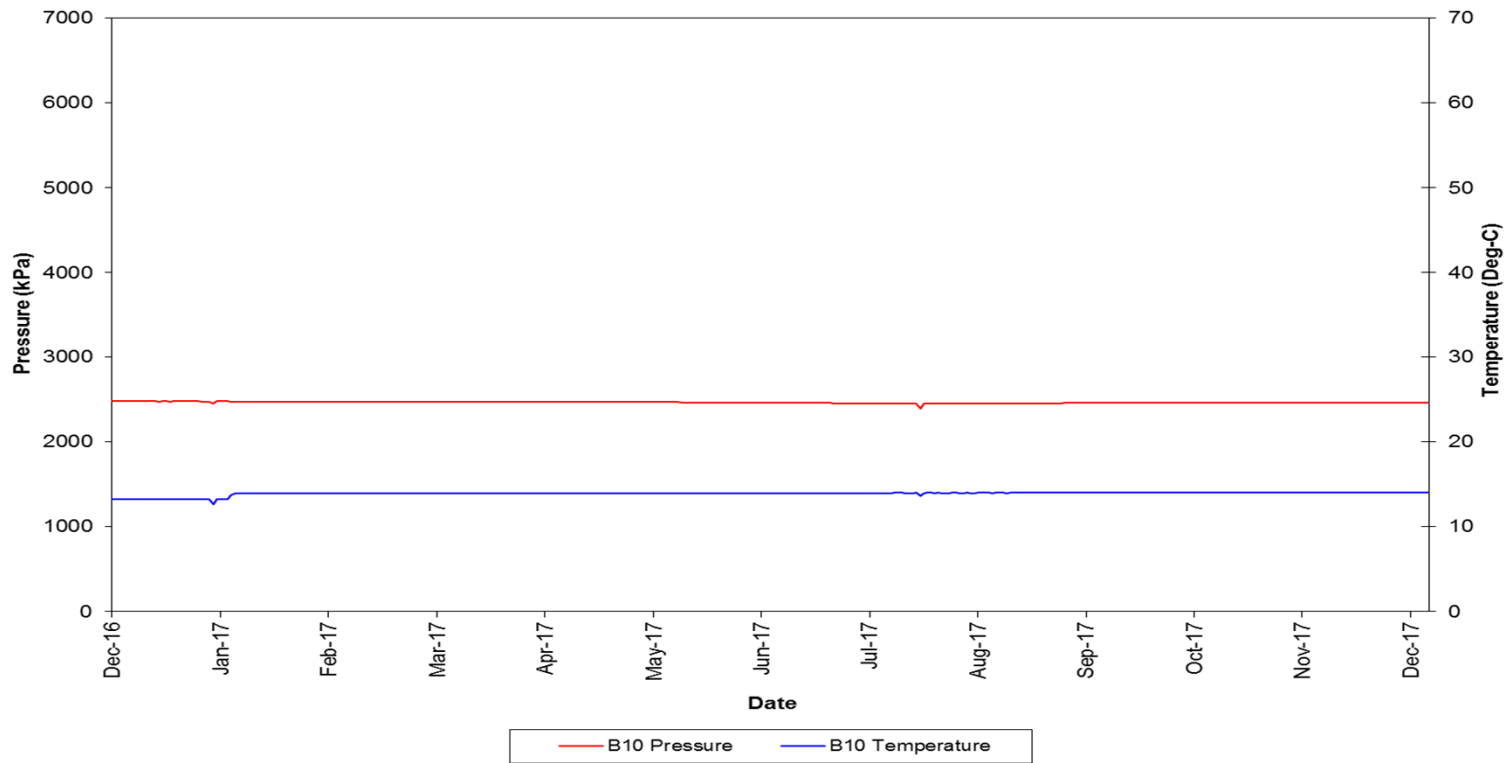
Phase 21 Observation Wells



Primrose South B10

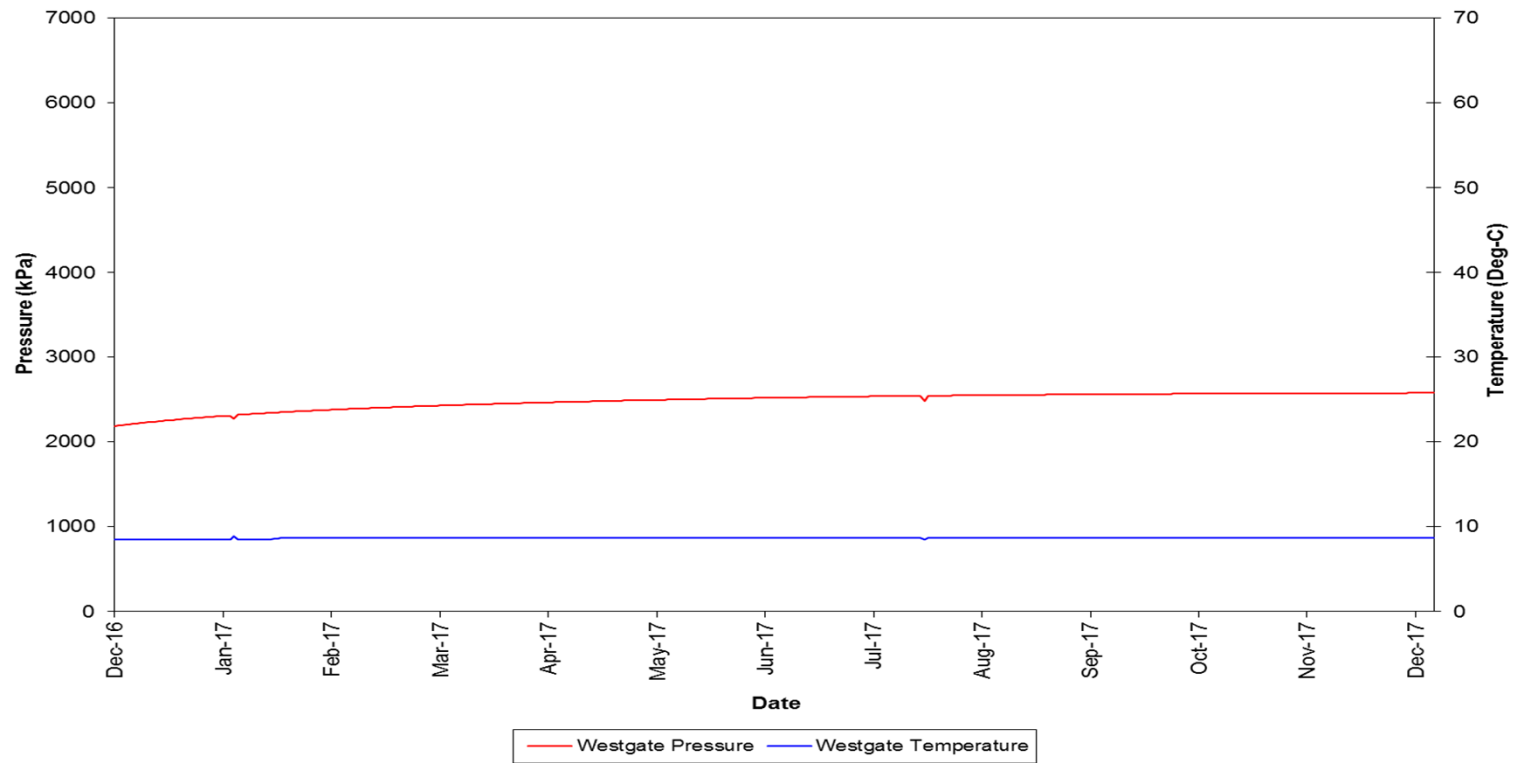
Pressure & Temperature Monitoring – VAAC22

Primrose South: CNRL VAAC22 OB10 MOORE 10-21-67-4



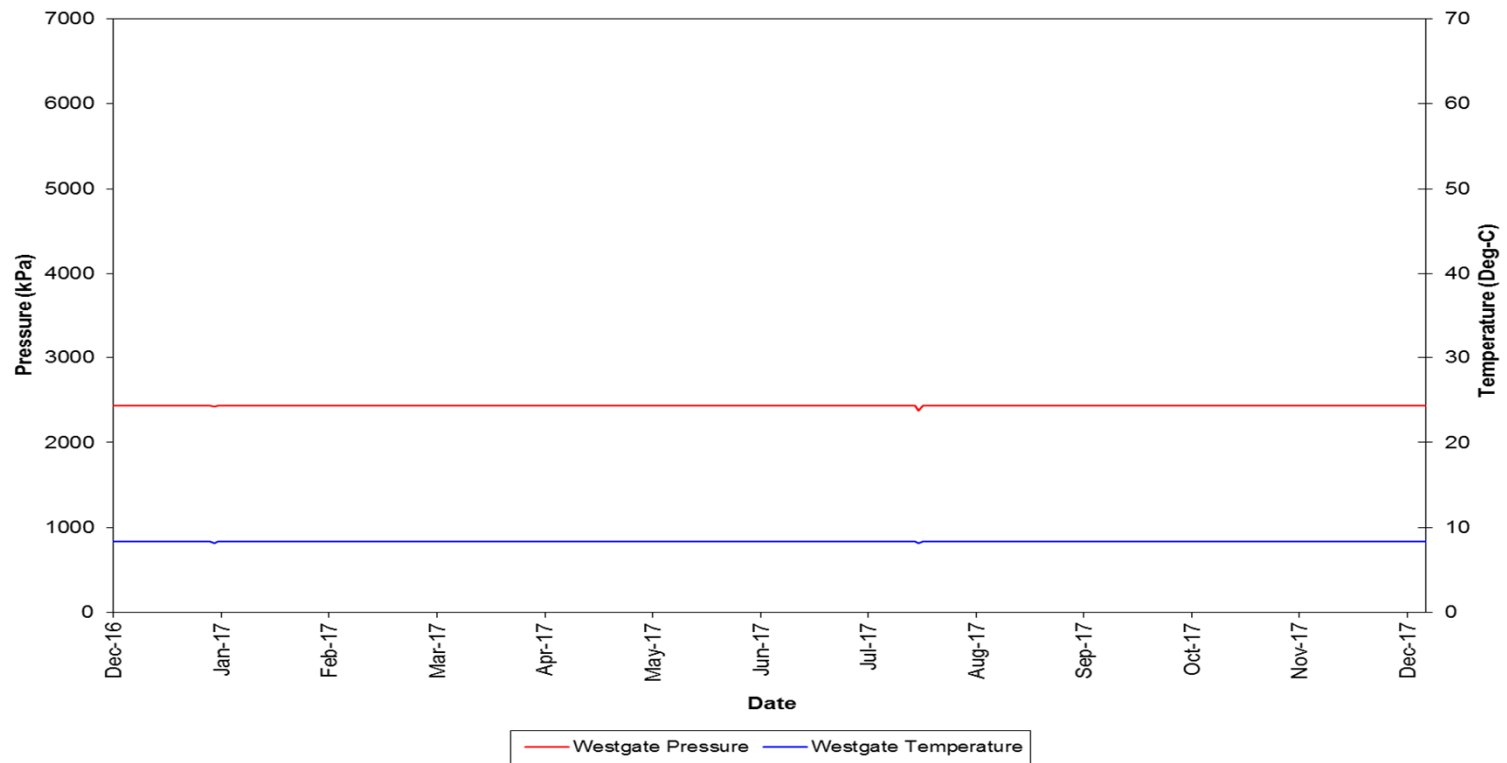
Primrose South Westgate Pressure & Temperature Monitoring – 5AAC22

Primrose South: CNRL 5AAC22 OB7 MOORE 10-21-67-4



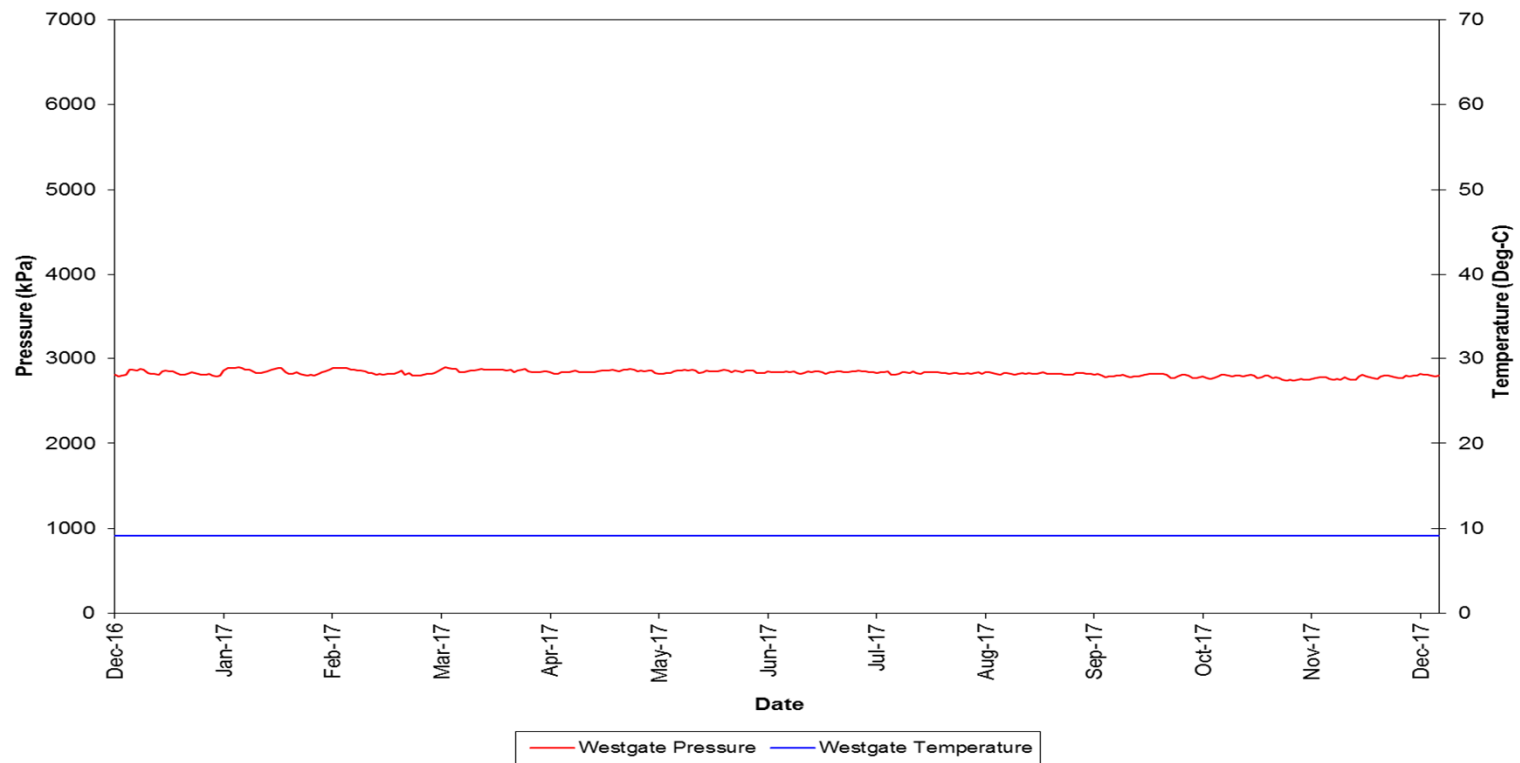
Primrose South Westgate Pressure & Temperature Monitoring – 7AAC22

Primrose South: CNRL 7AAC22 OB13 MOORE 10-21-67-4



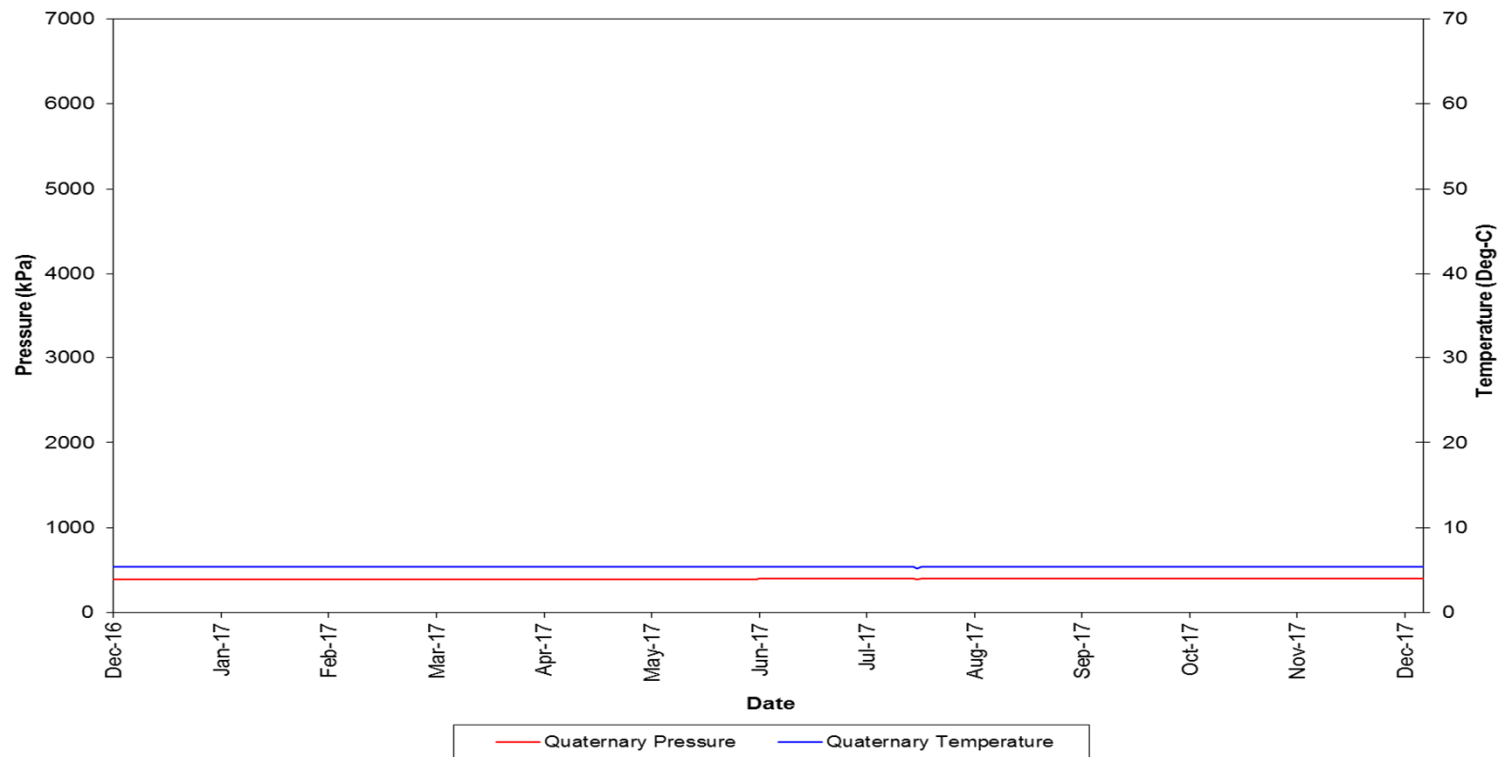
Primrose South Westgate Pressure & Temperature Monitoring – OB2

Primrose South: CNRL OB2 10-21-67-4



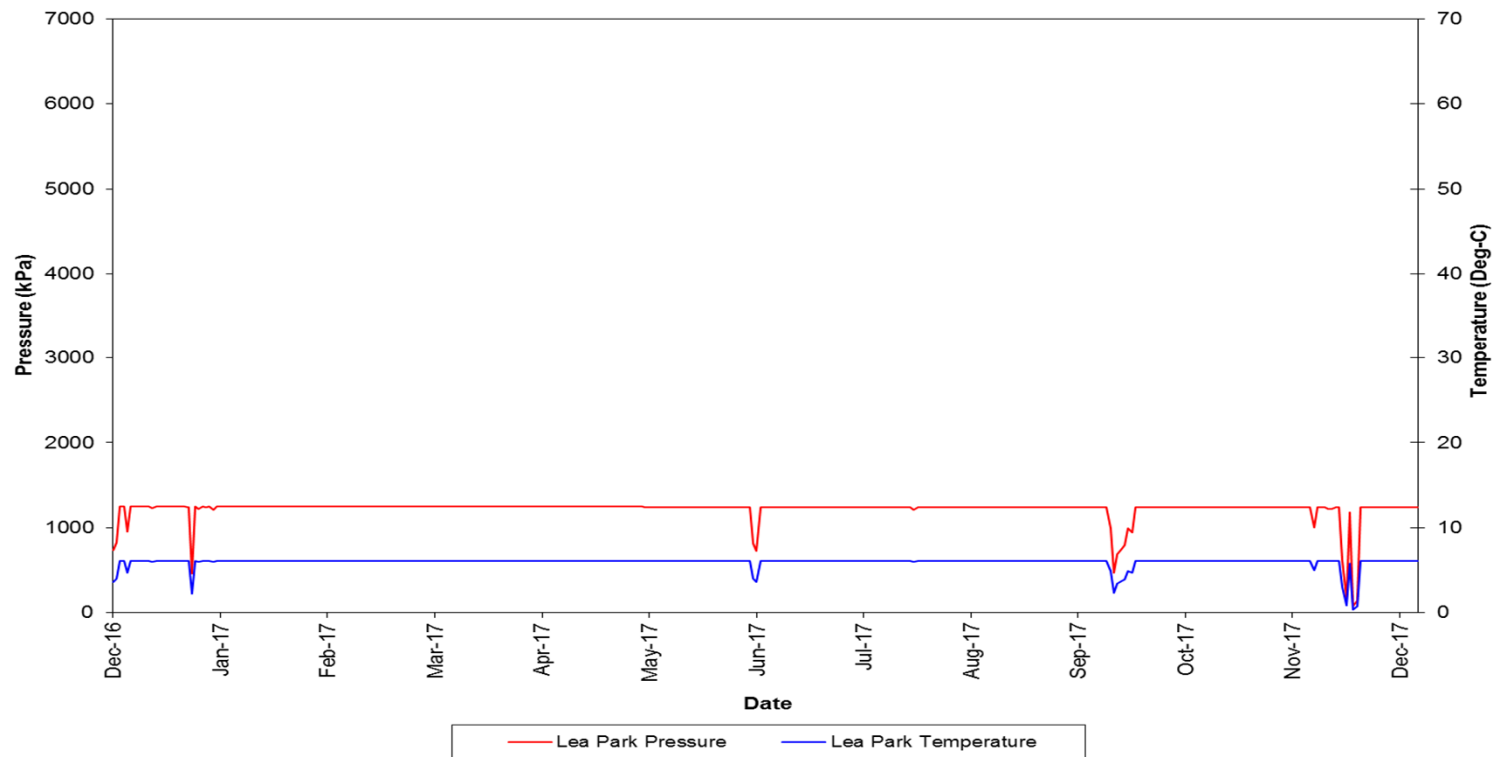
Primrose South Quaternary Pressure & Temperature Monitoring – OB10

Primrose South: CNRL OB10 MOORE 9-21-67-4



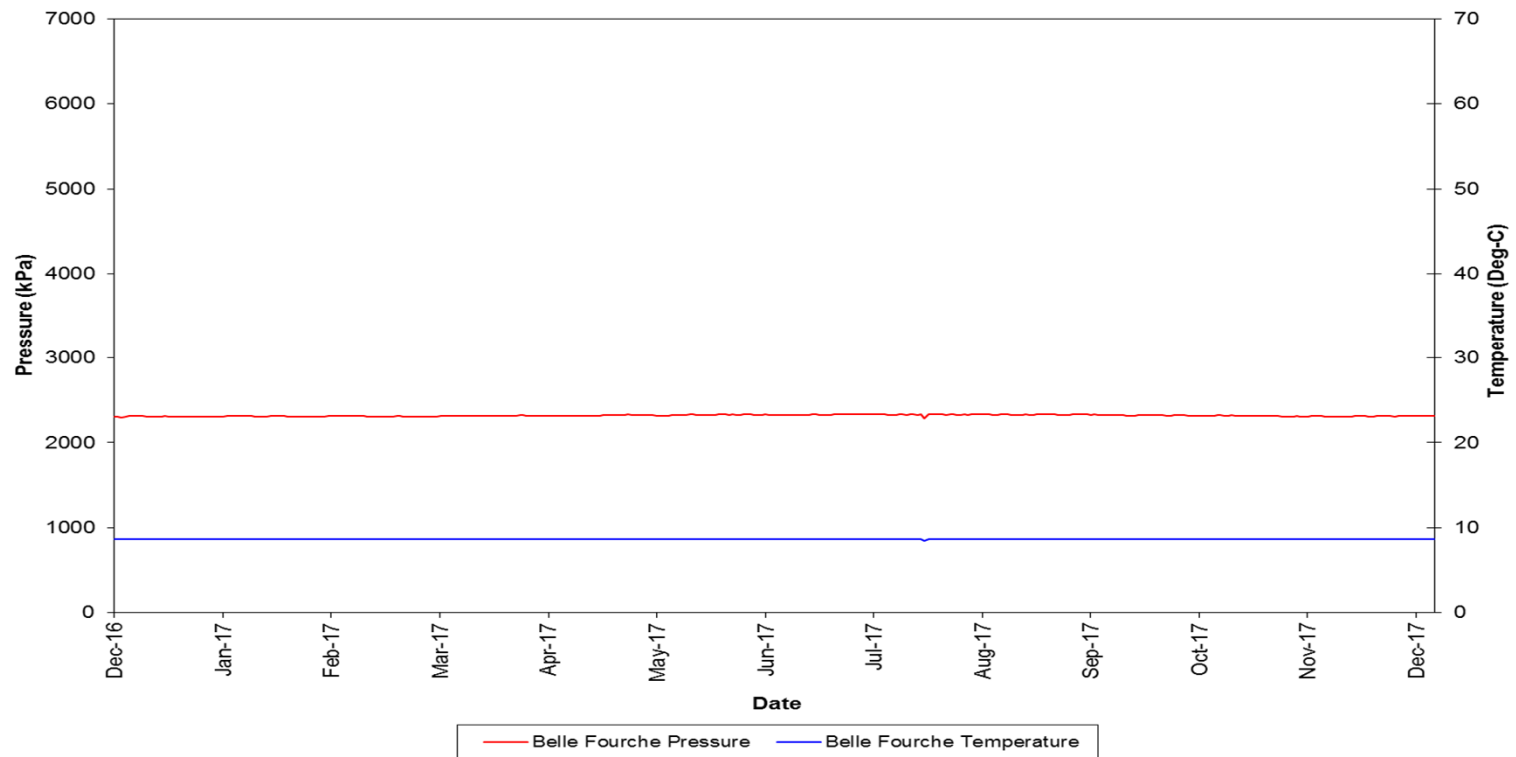
Primrose South Lea Park Pressure & Temperature Monitoring – OB11

Primrose South: CNRL OB11 MOORE 9-21-67-4



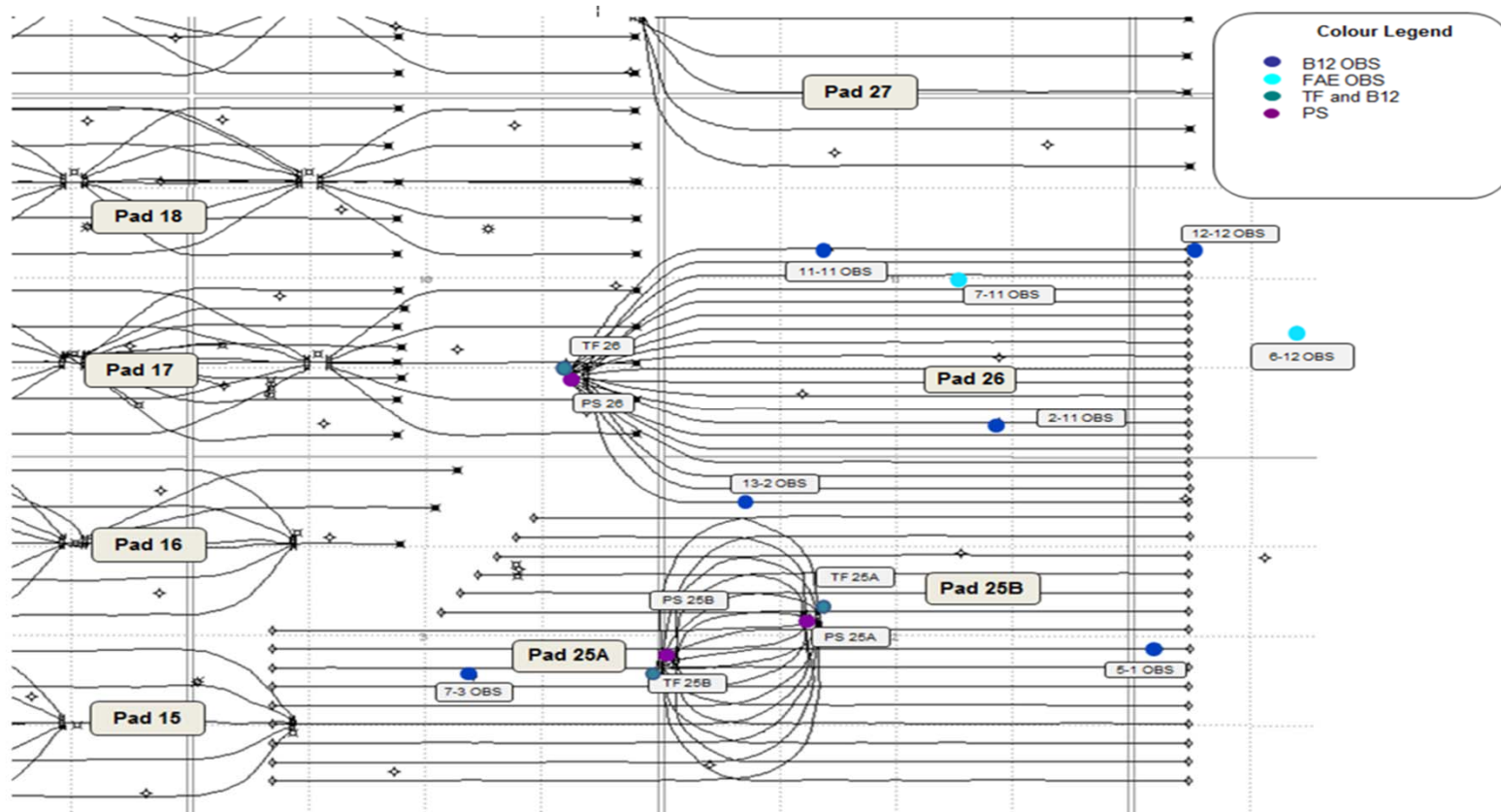
Primrose South Belle Fourche Pressure & Temperature Monitoring – OB12

Primrose South: CNRL OB12 MOORE 10-21-67-4



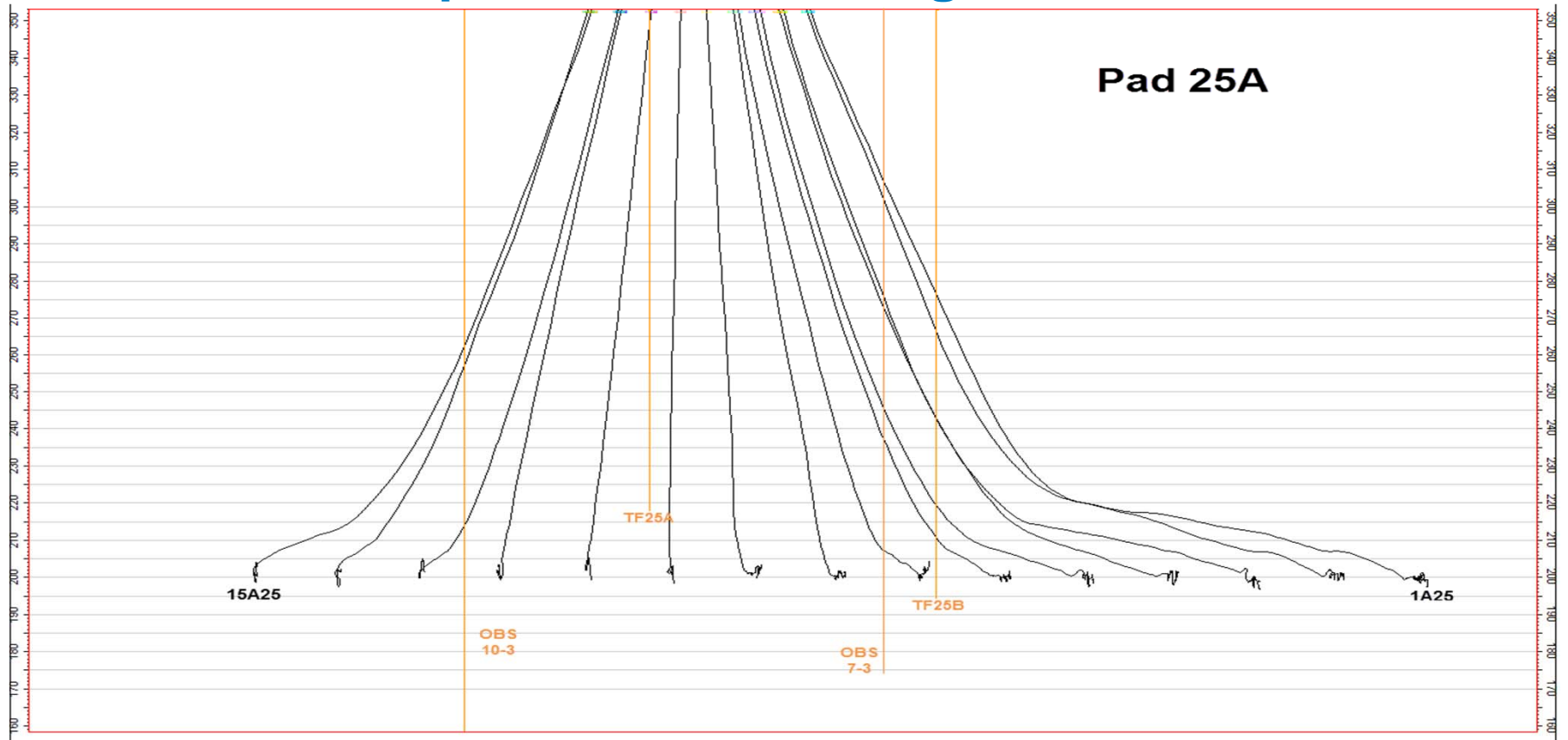
Observation Wells - Primrose South

Phases 25-26



Primrose South

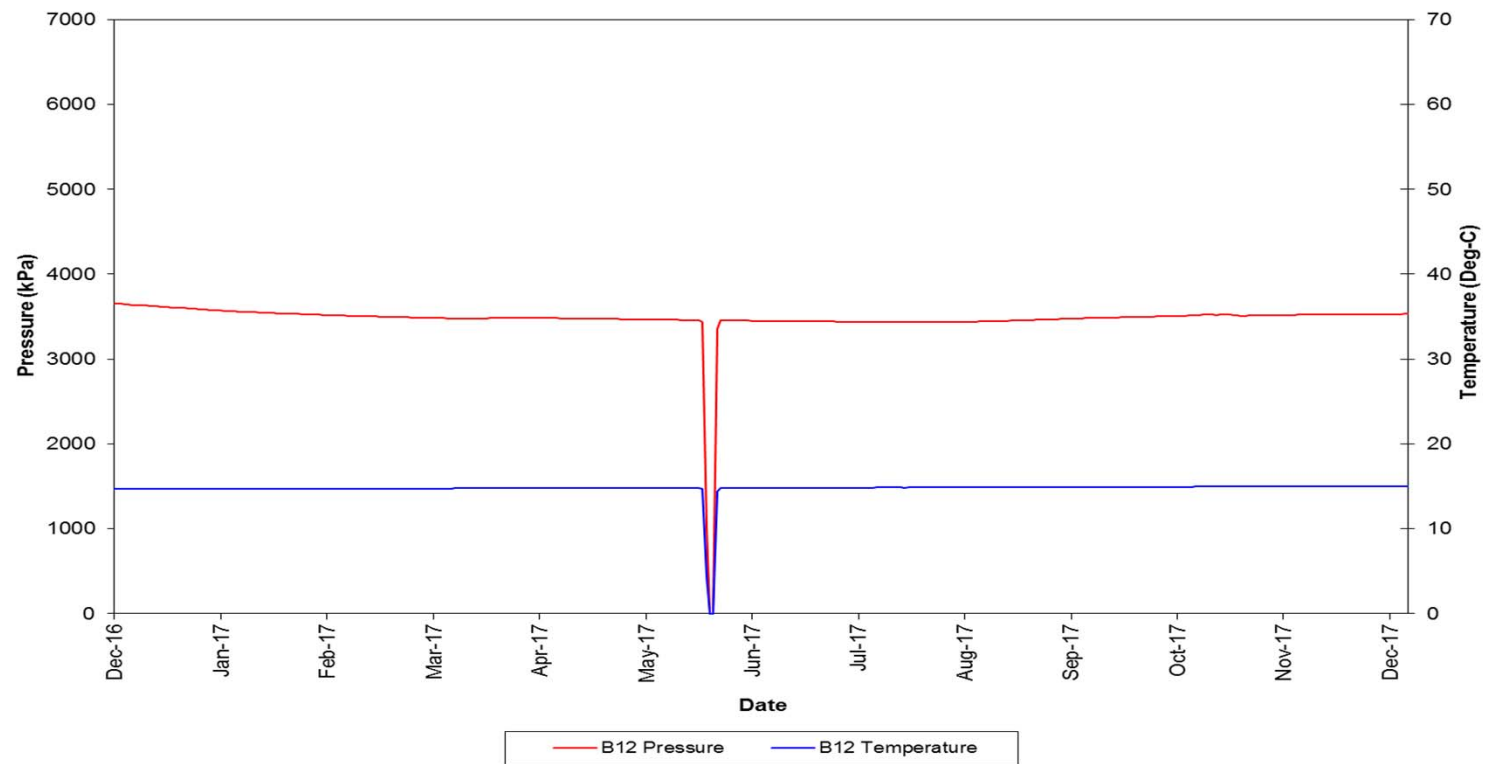
Pressure & Temperature Monitoring – Phase 25A



Primrose South B12

Pressure & Temperature Monitoring – 7-3 OBS

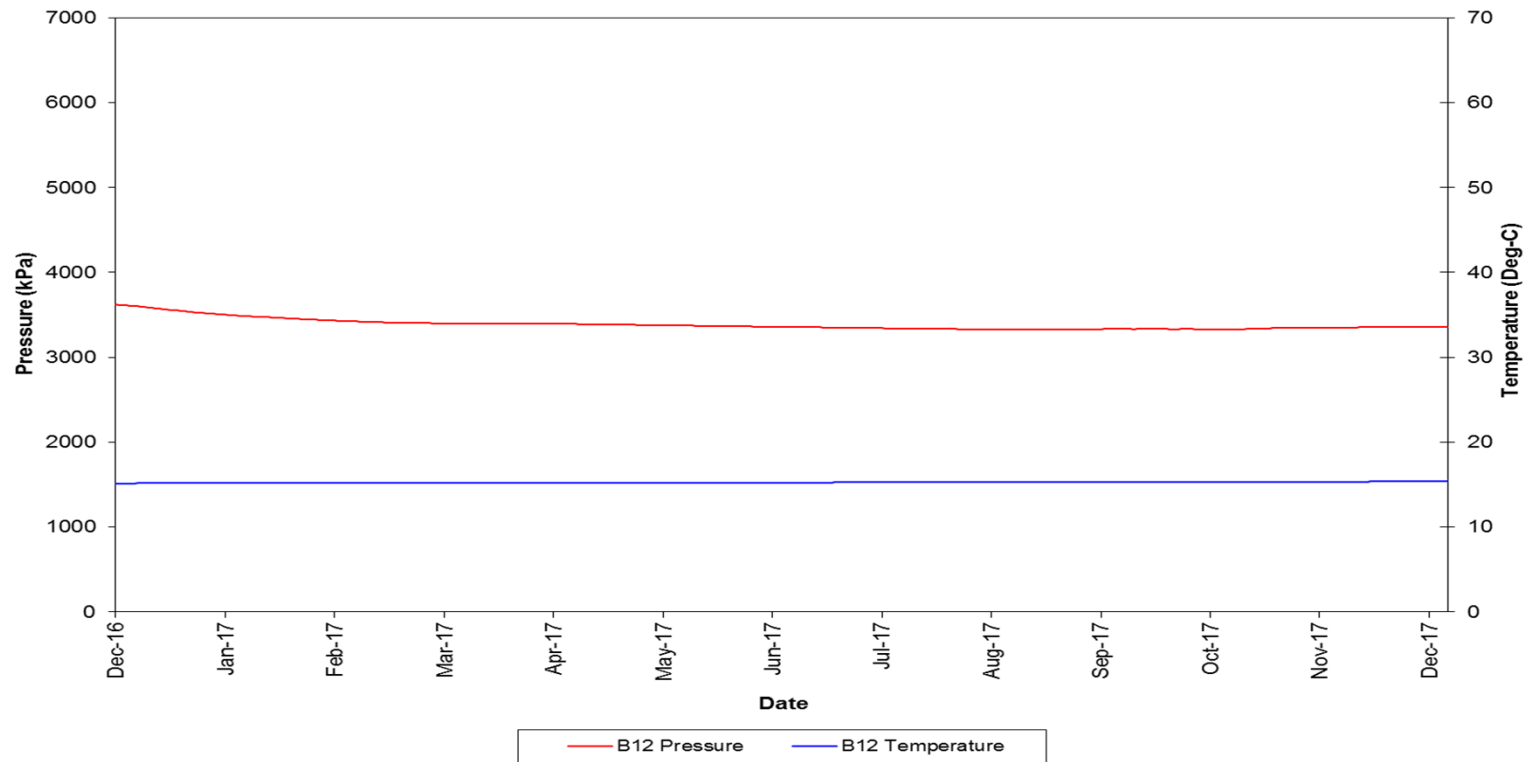
Primrose South: CNRL OBS Moore 7-3-67-4



Primrose South B12

Pressure & Temperature Monitoring – TF 25A

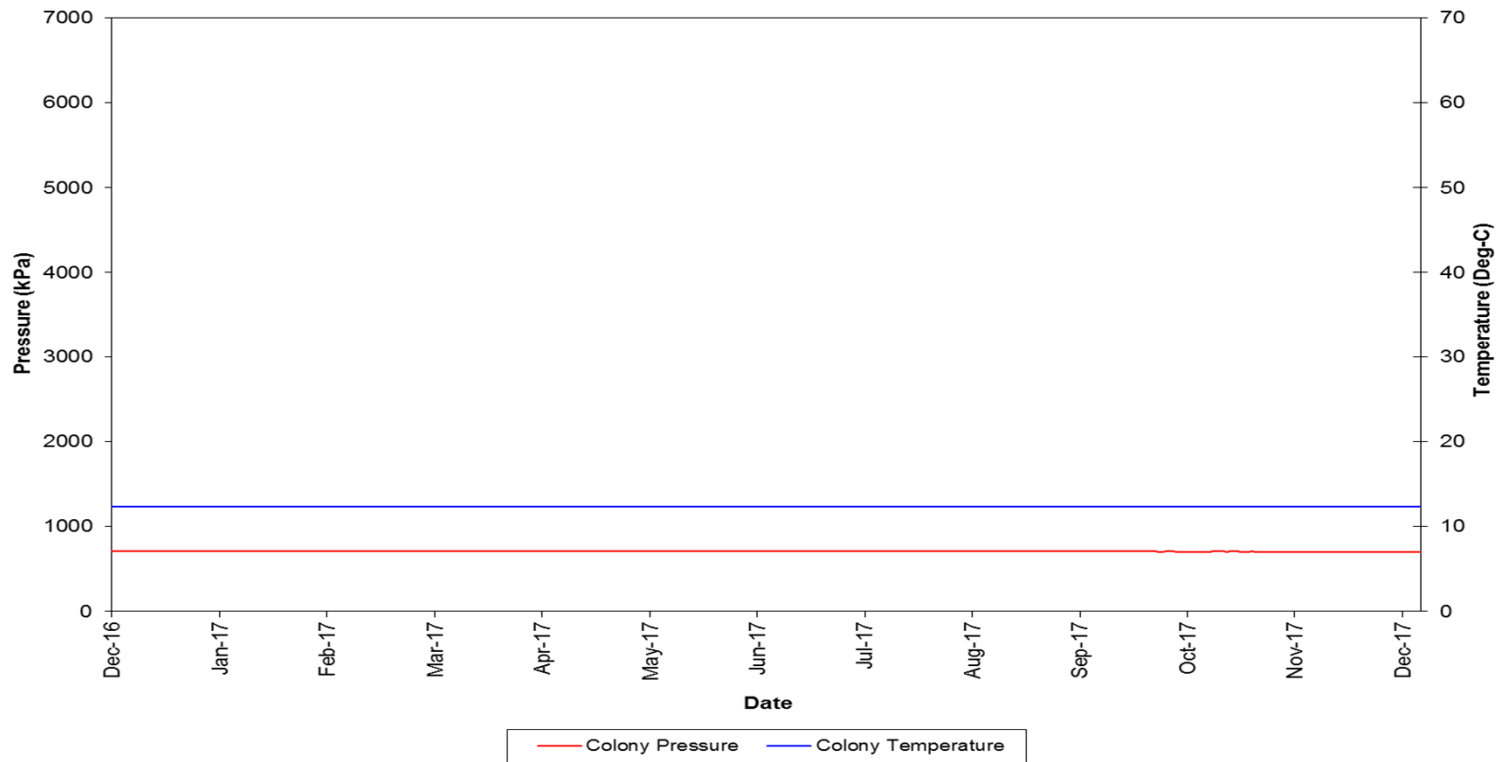
Primrose South: CNRL OBS TF 25A Moore 11-2-67-4



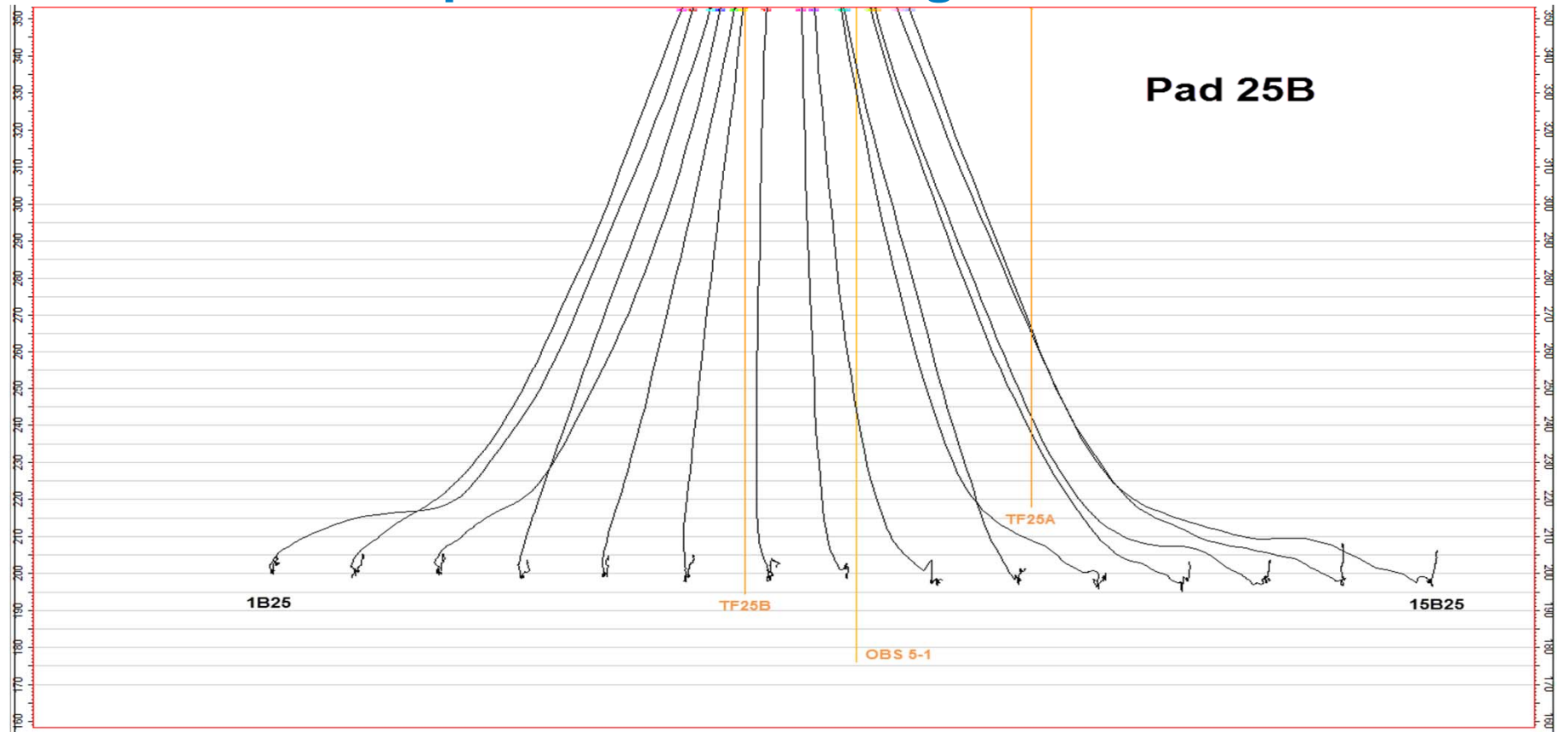
Primrose South Colony

Pressure & Temperature Monitoring – 10-3 OBS

Primrose South: 10-3-67-4



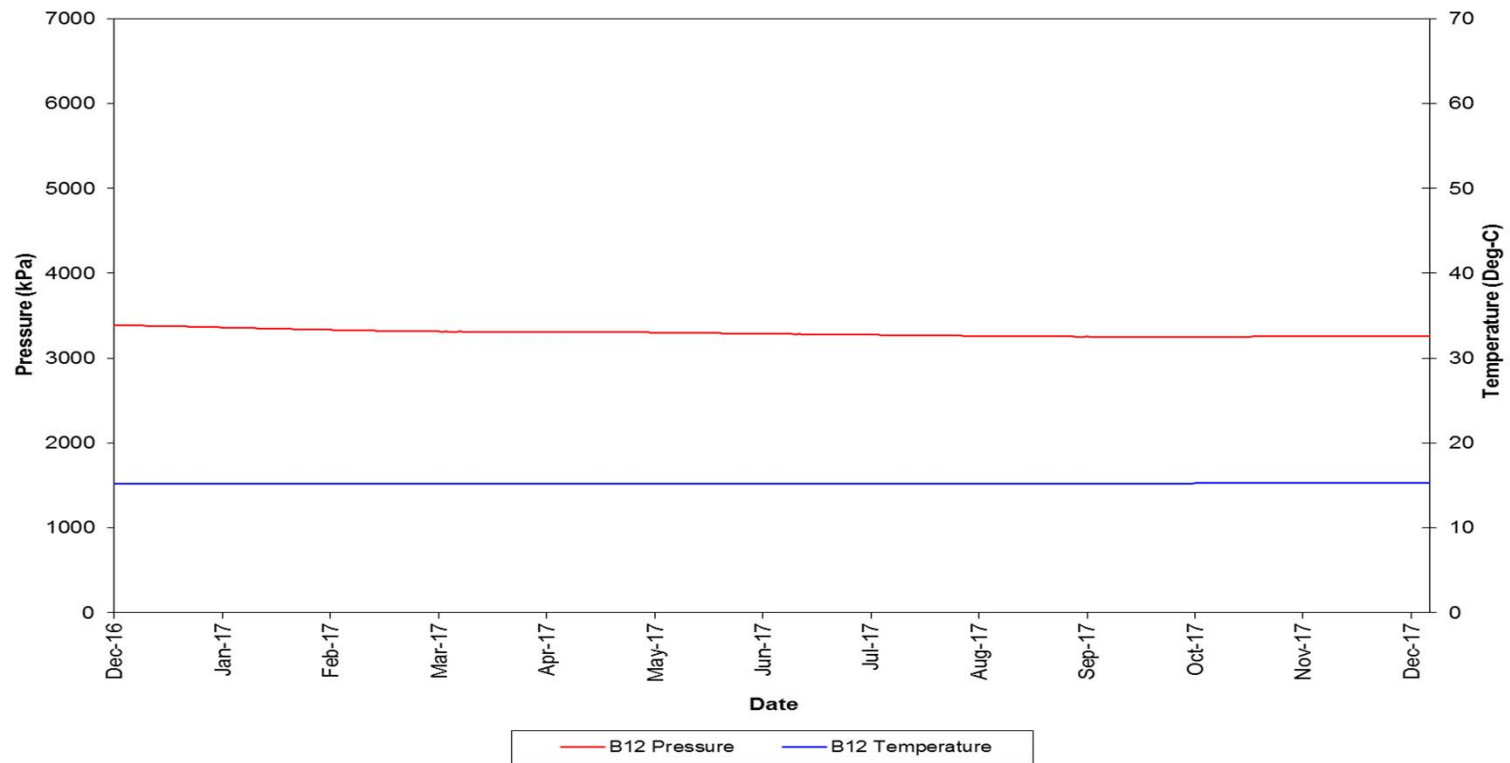
Primrose South Pressure & Temperature Monitoring – Phase 25B



Primrose South B12

Pressure & Temperature Monitoring – 5-1 OBS

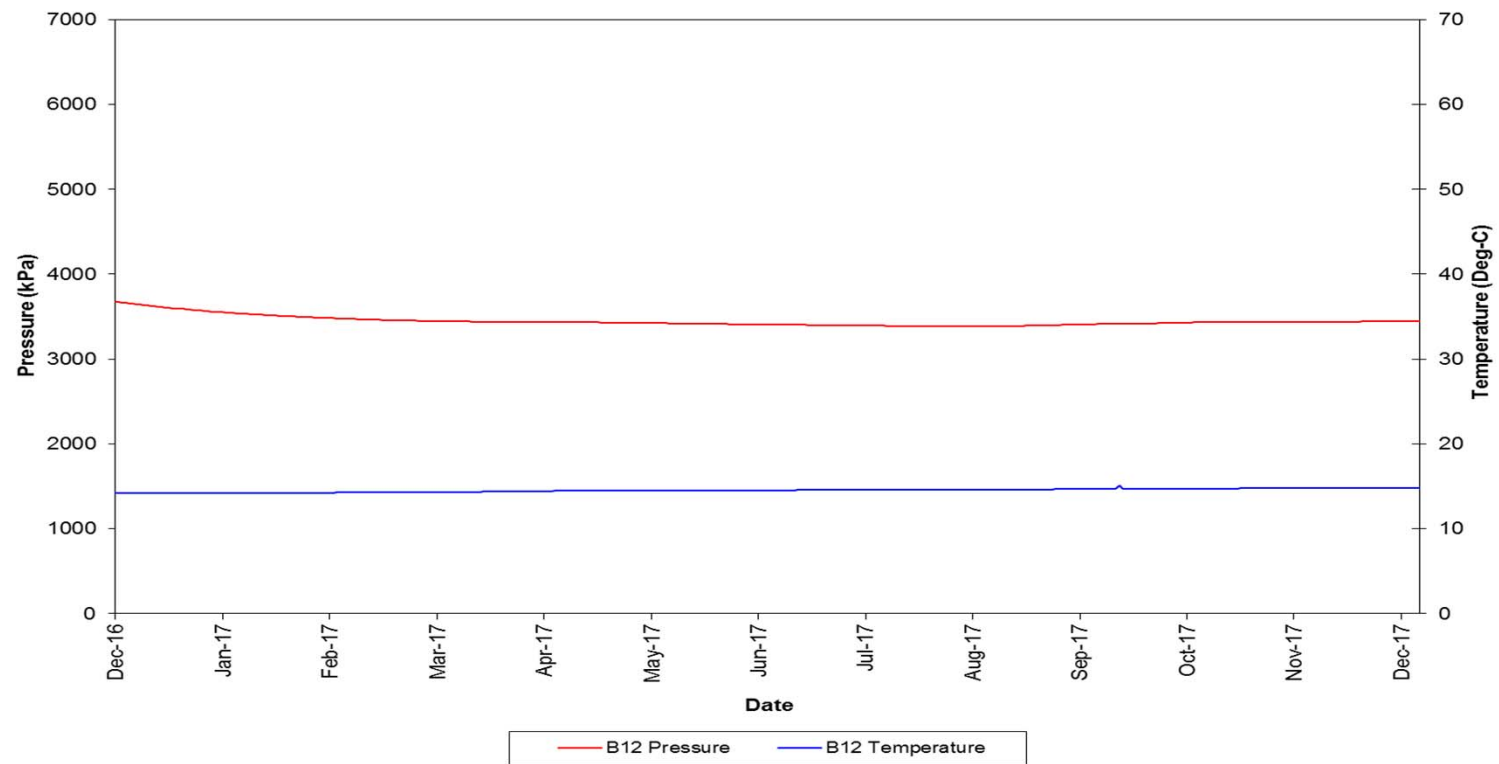
Primrose South: CNRL OBS Leming 5-1-67-4



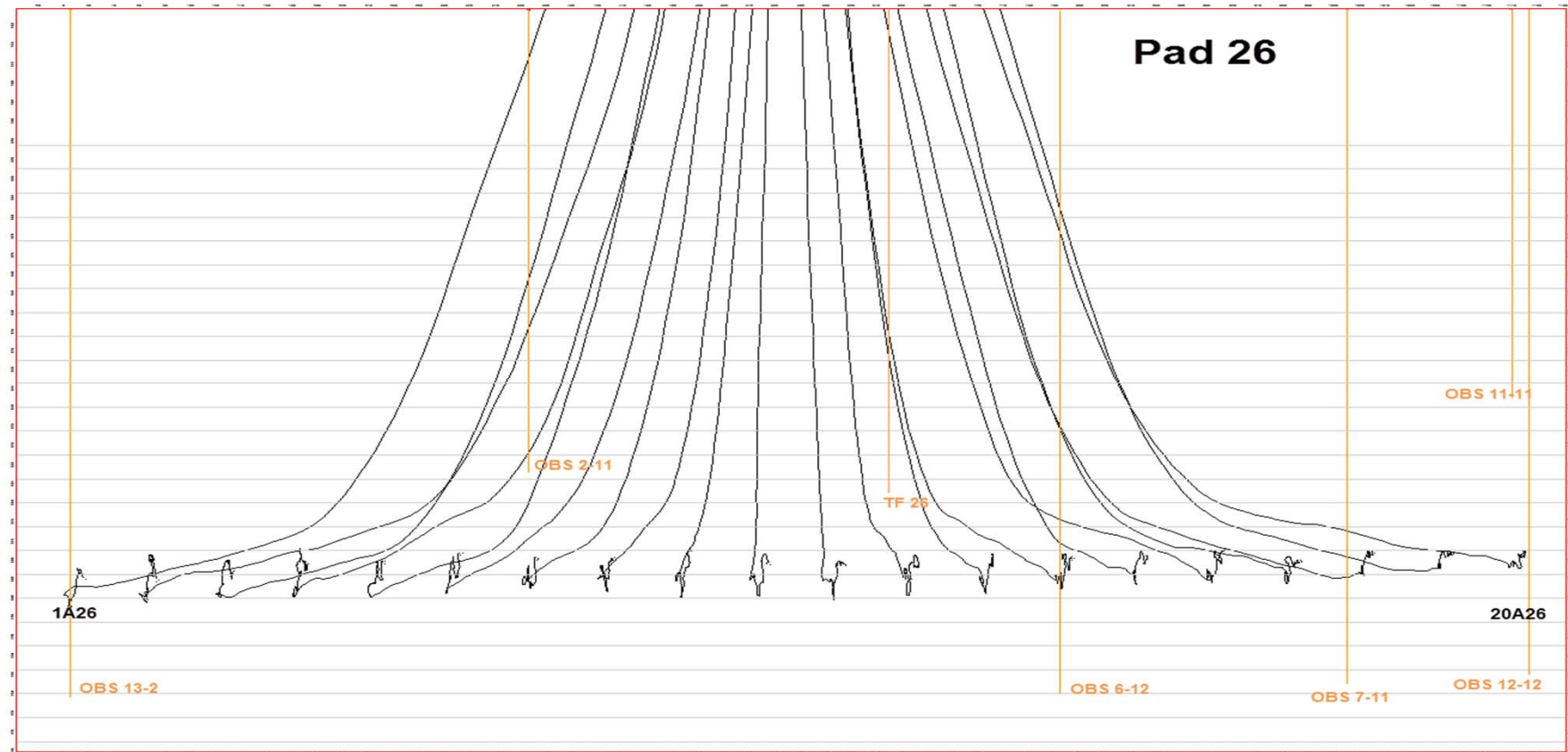
Primrose South B12

Pressure & Temperature Monitoring – TF 25B

Primrose South: CNRL OBS TF 25B Moore 5-2-67-4



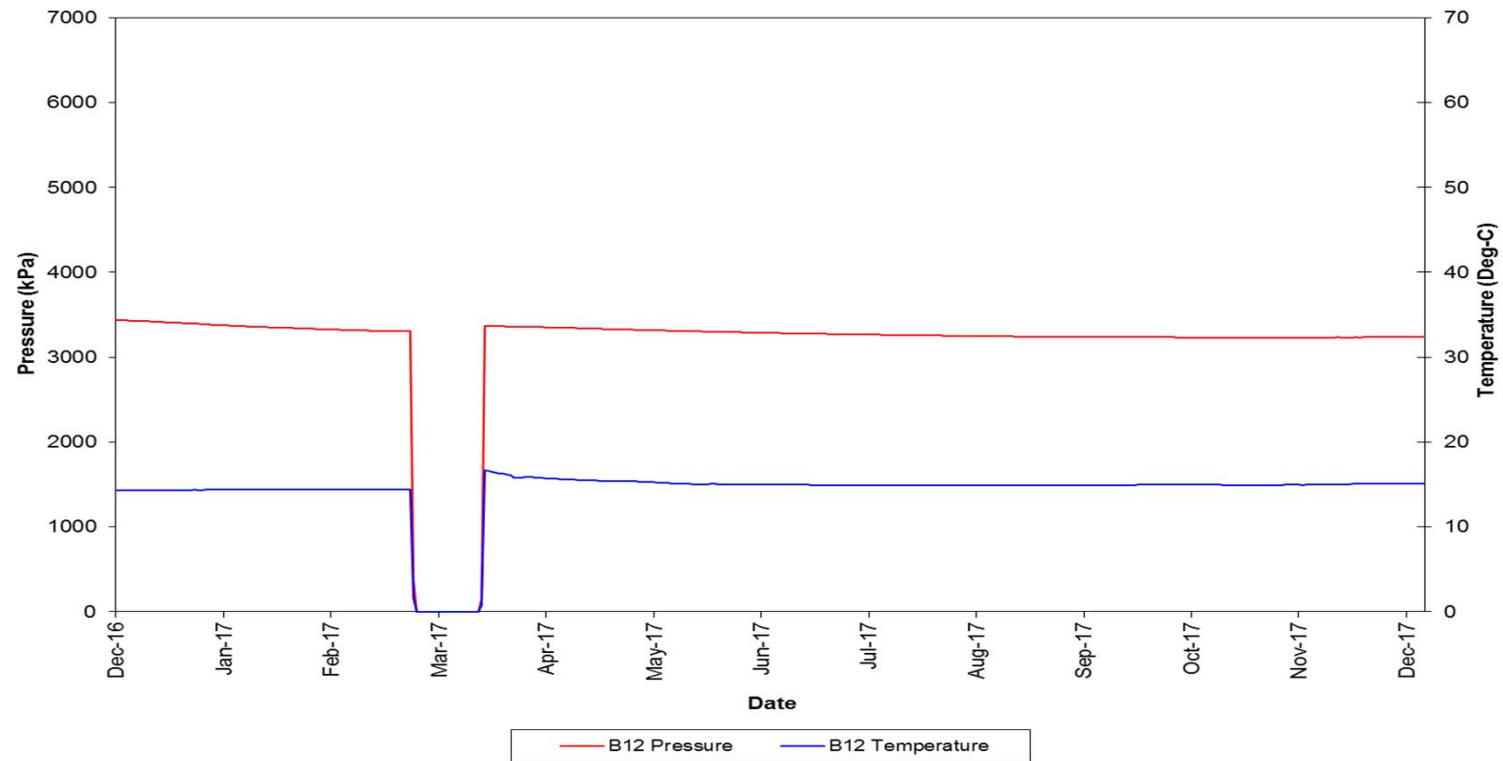
Primrose South Pressure & Temperature Monitoring – Phase 26



Primrose South B12

Pressure & Temperature Monitoring – 2-11 OBS

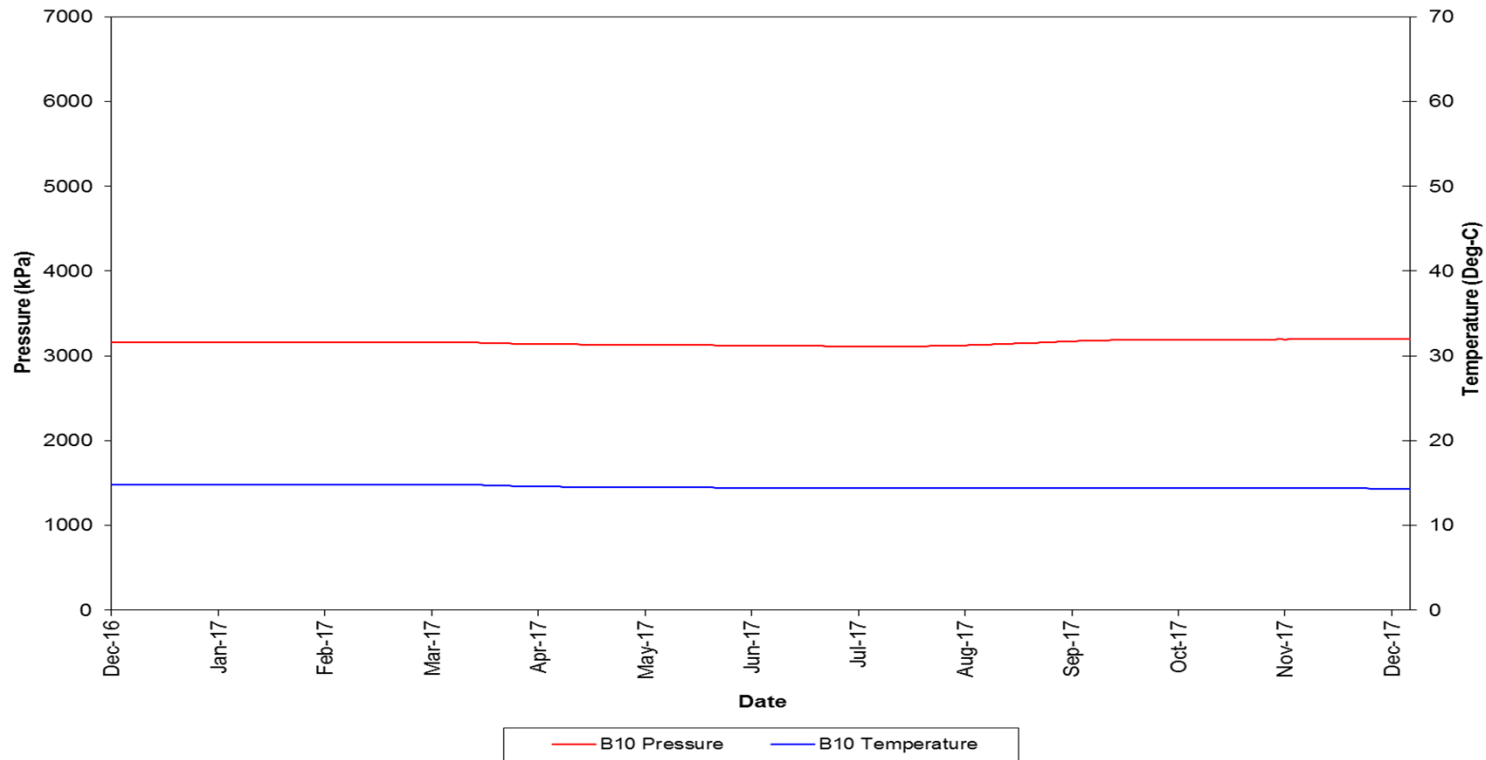
Primrose South: CNRL OBS Moore 2-11-67-4



Primrose South B10

Pressure & Temperature Monitoring – 2-11 OBS

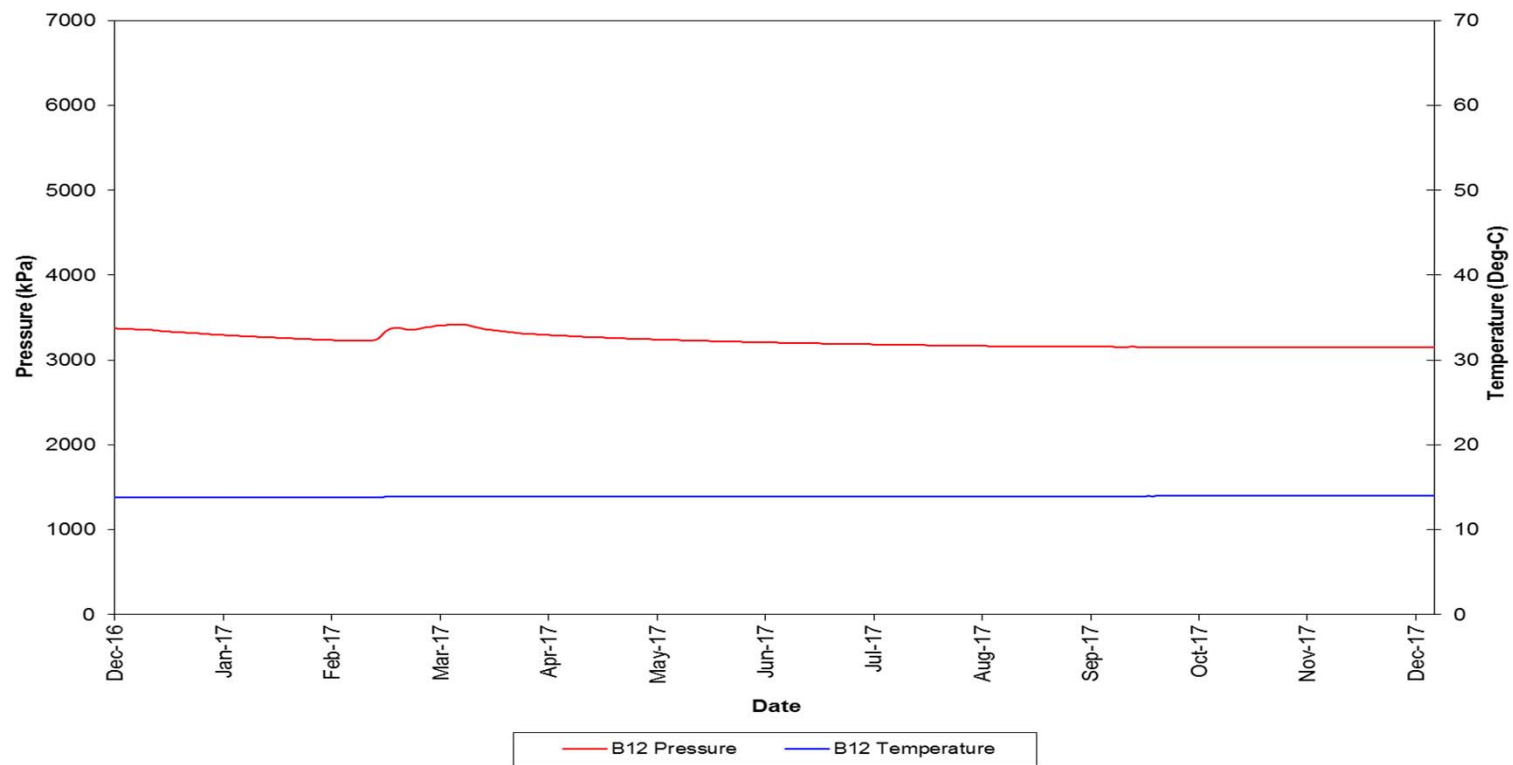
Primrose South: CNRL OBS Moore 2-11-67-4



Primrose South B12

Pressure & Temperature Monitoring – 11-11 OBS

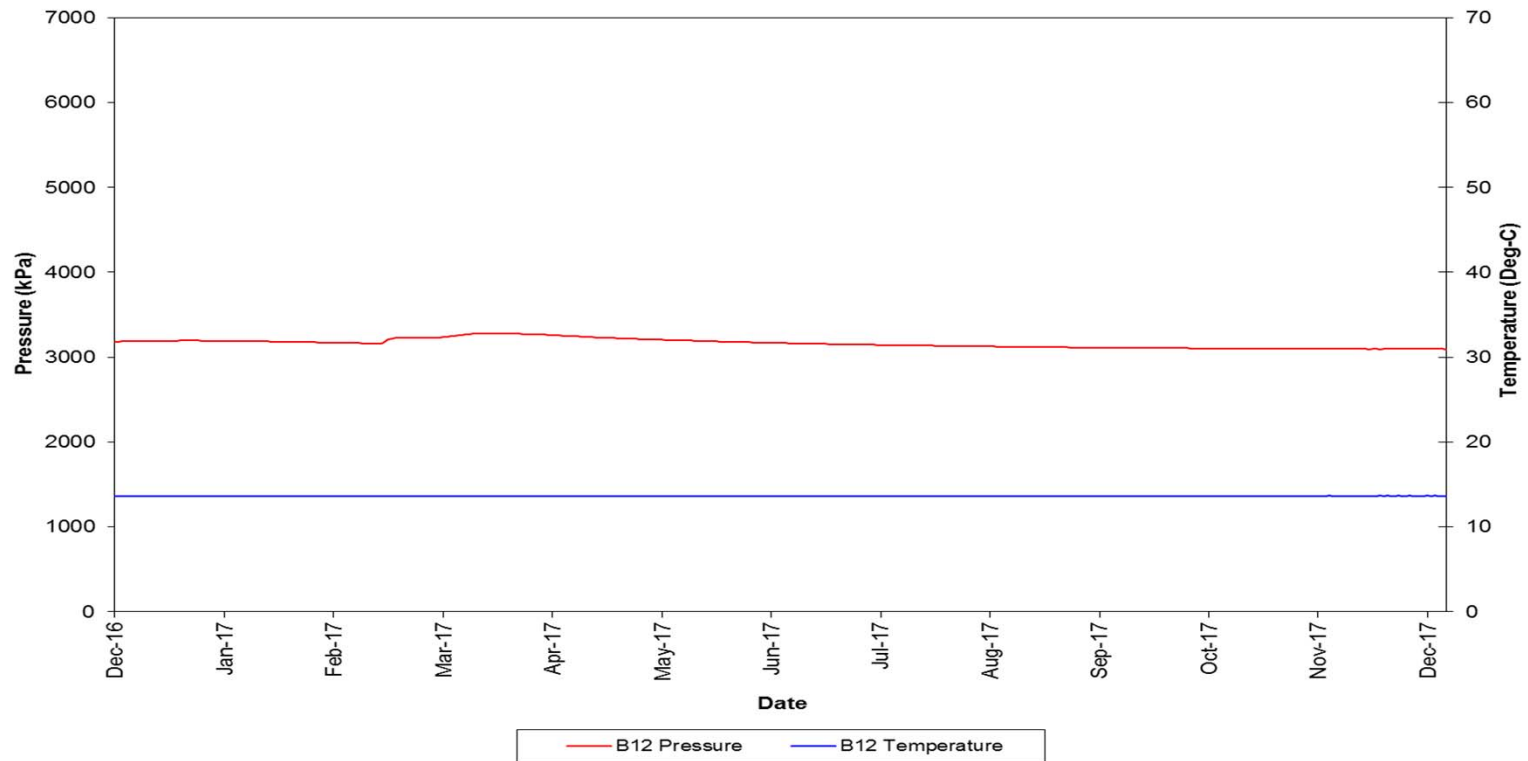
Primrose South: CNRL OBS Moore 11-11-67-4



Primrose South B12

Pressure & Temperature Monitoring –12-12 OBS

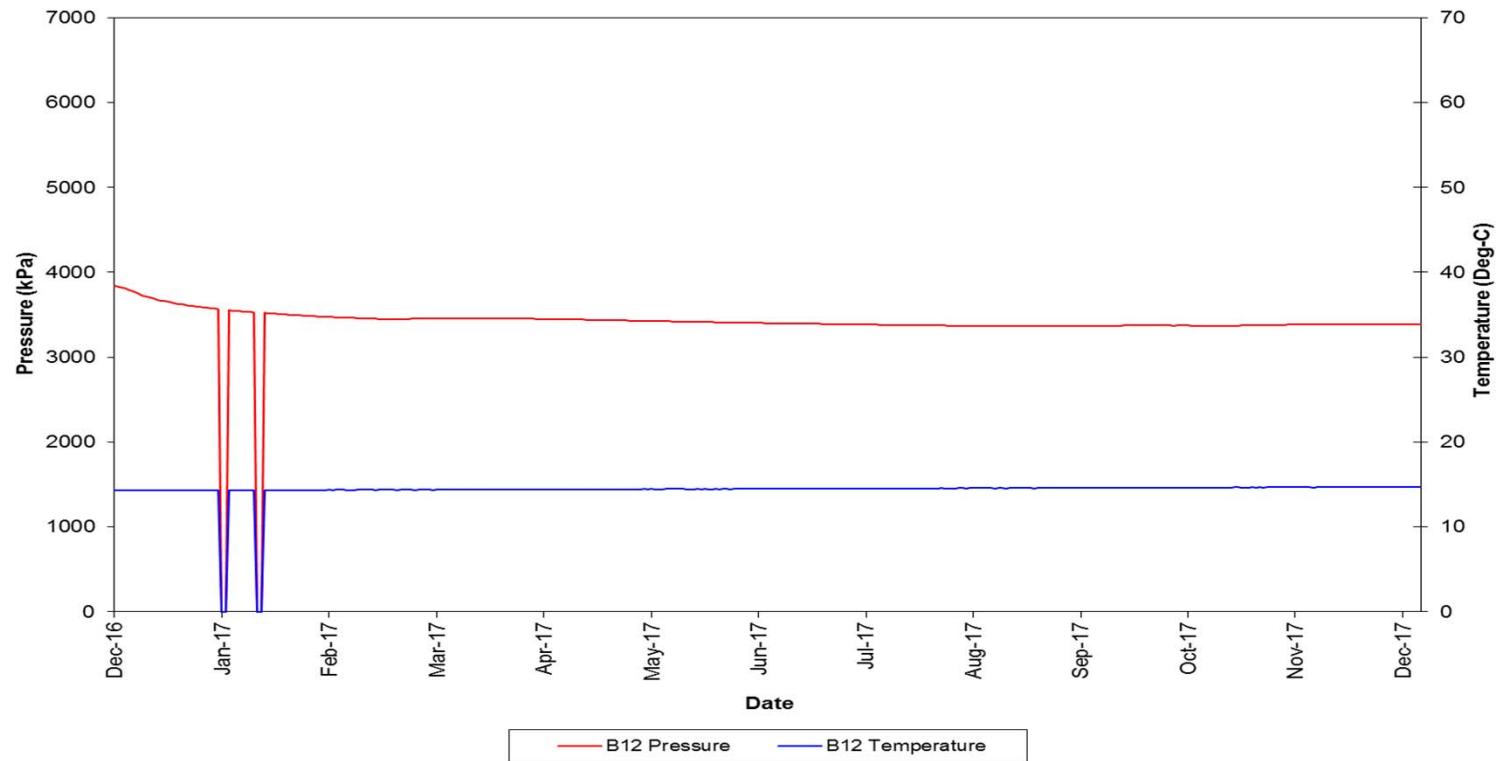
Primrose South: CNRL OBS Leming 12-12-67-4



Primrose South B12

Pressure & Temperature Monitoring – 13-2 OBS

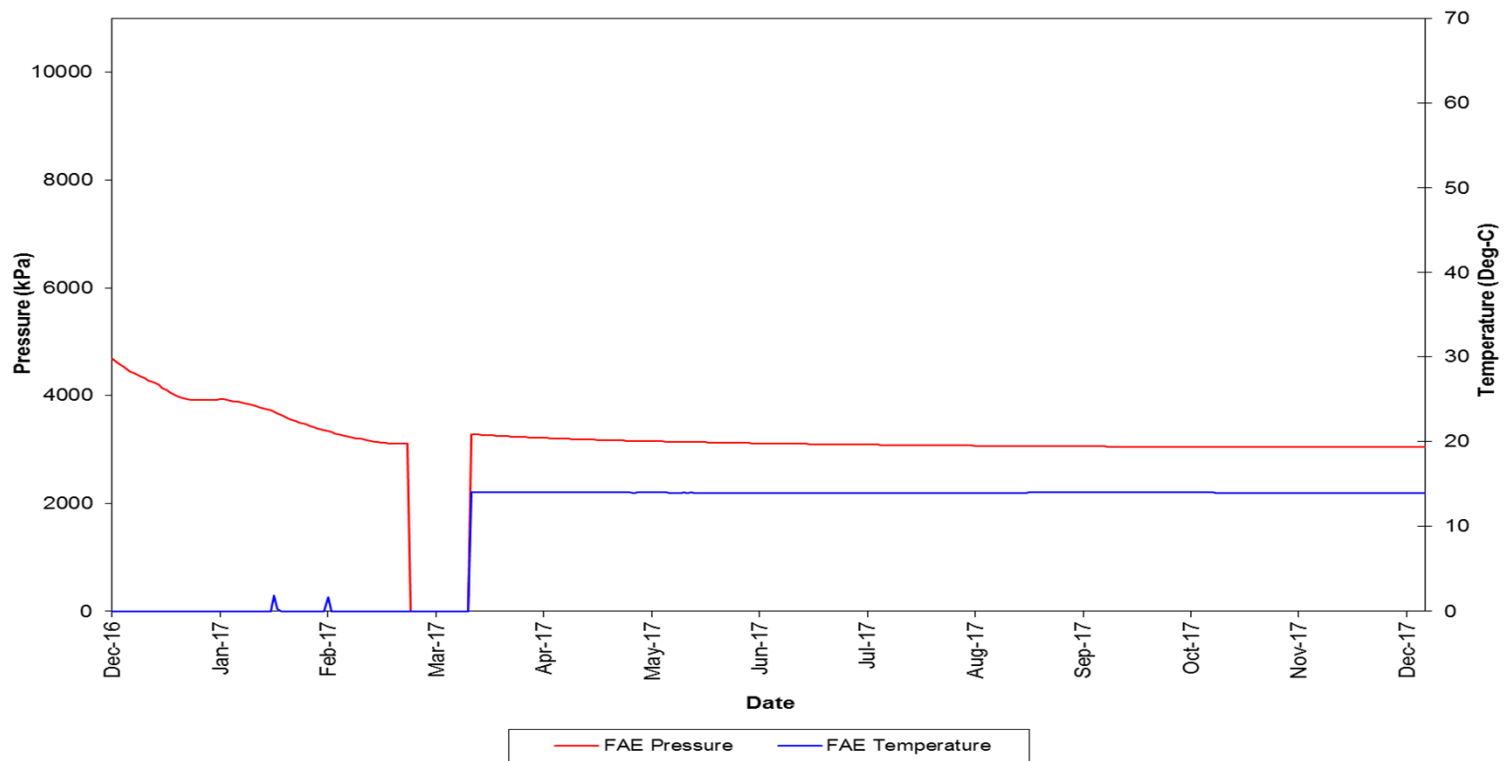
Primrose South: CNRL OBS Moore 13-2-67-4



Primrose South FAE

Pressure & Temperature Monitoring – 7-11 OBS

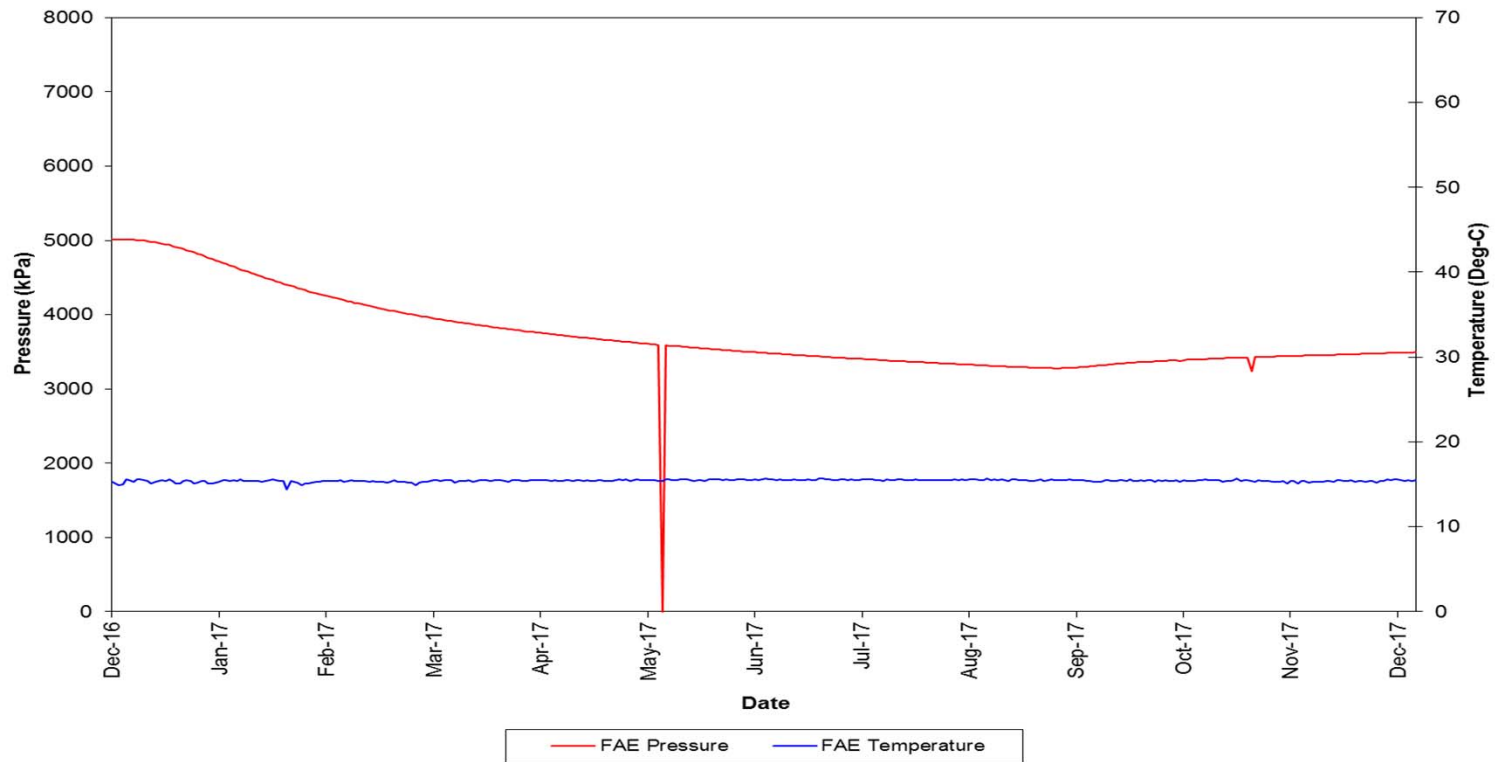
Primrose South: CNRL OBS Moore 7-11-67-4



Primrose South FAE

Pressure & Temperature Monitoring – 6-12 OBS

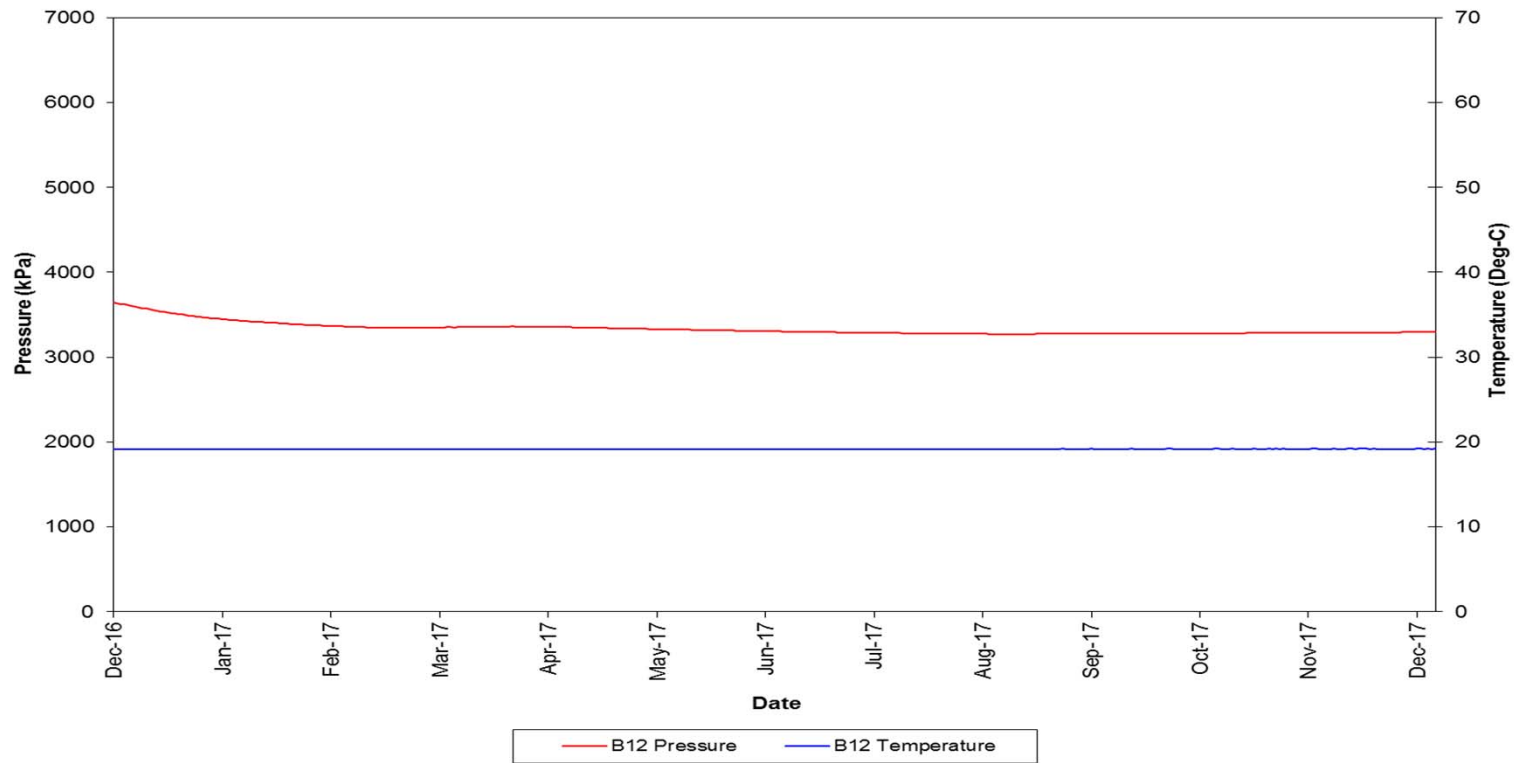
Primrose South: CNRL OBS Moore 6-12-67-4



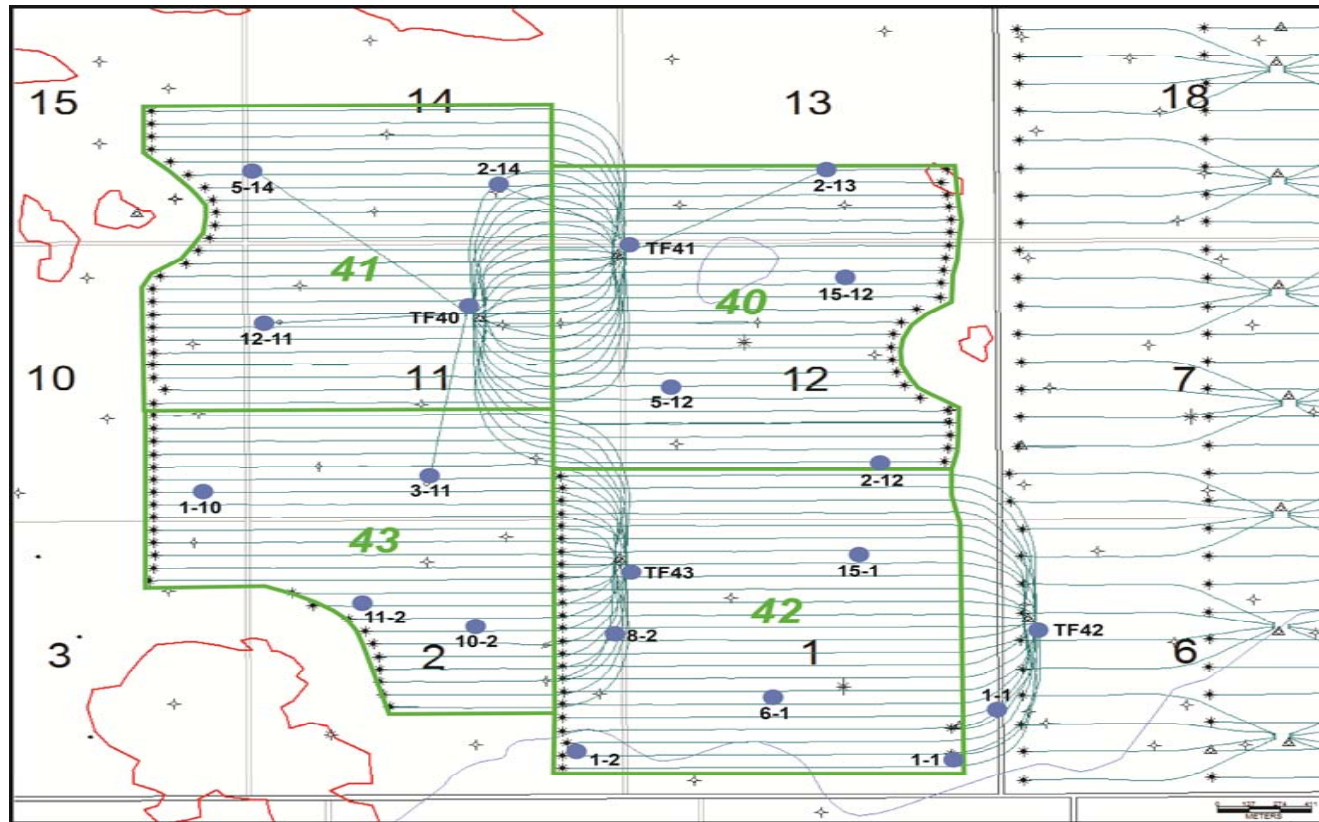
Primrose South B12

Pressure & Temperature Monitoring – TF 26

Primrose South: CNRL OBS TF 26 Moore 1-10-67-4

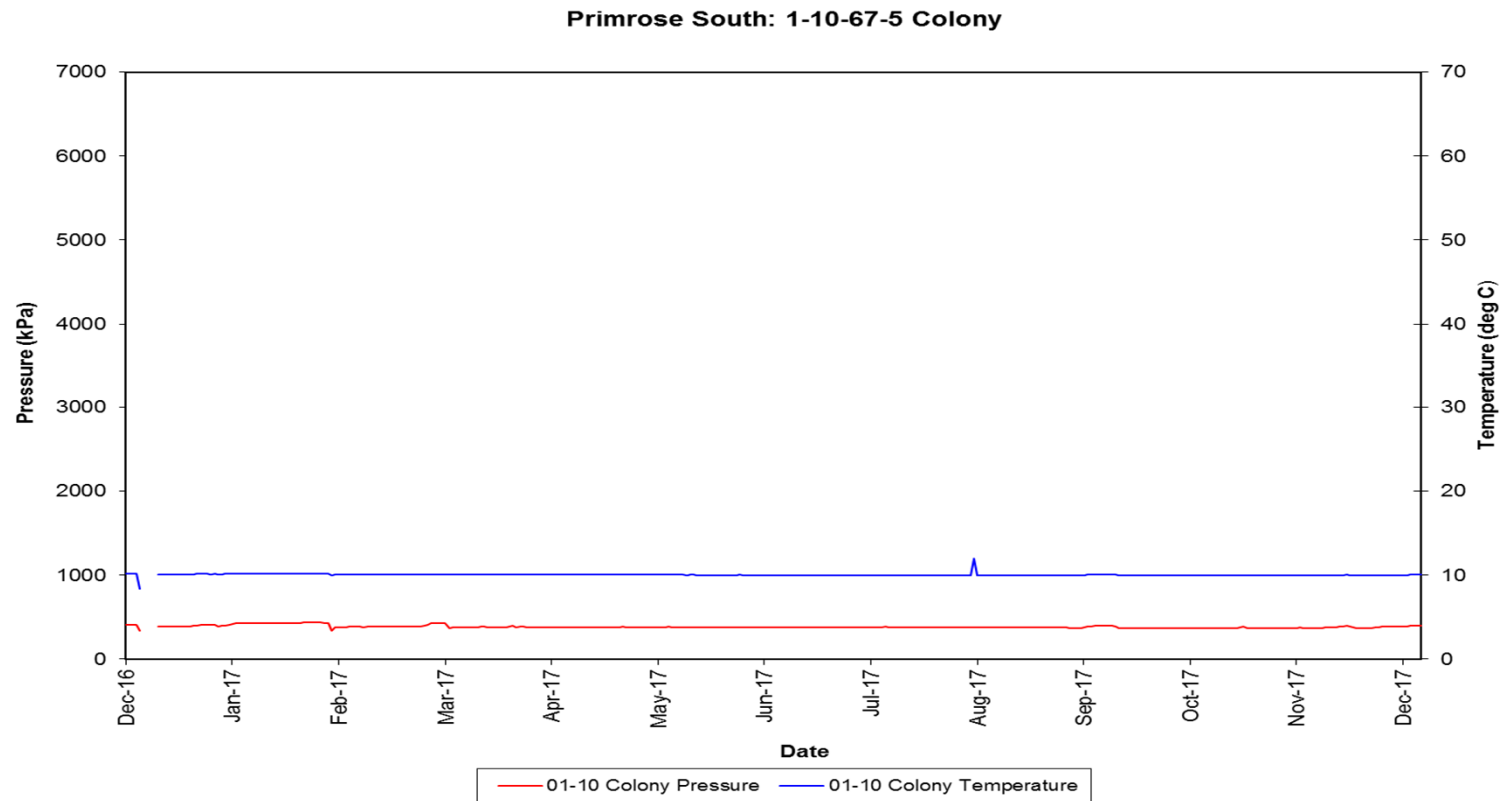


Observation Wells - Primrose South Phases 40-43



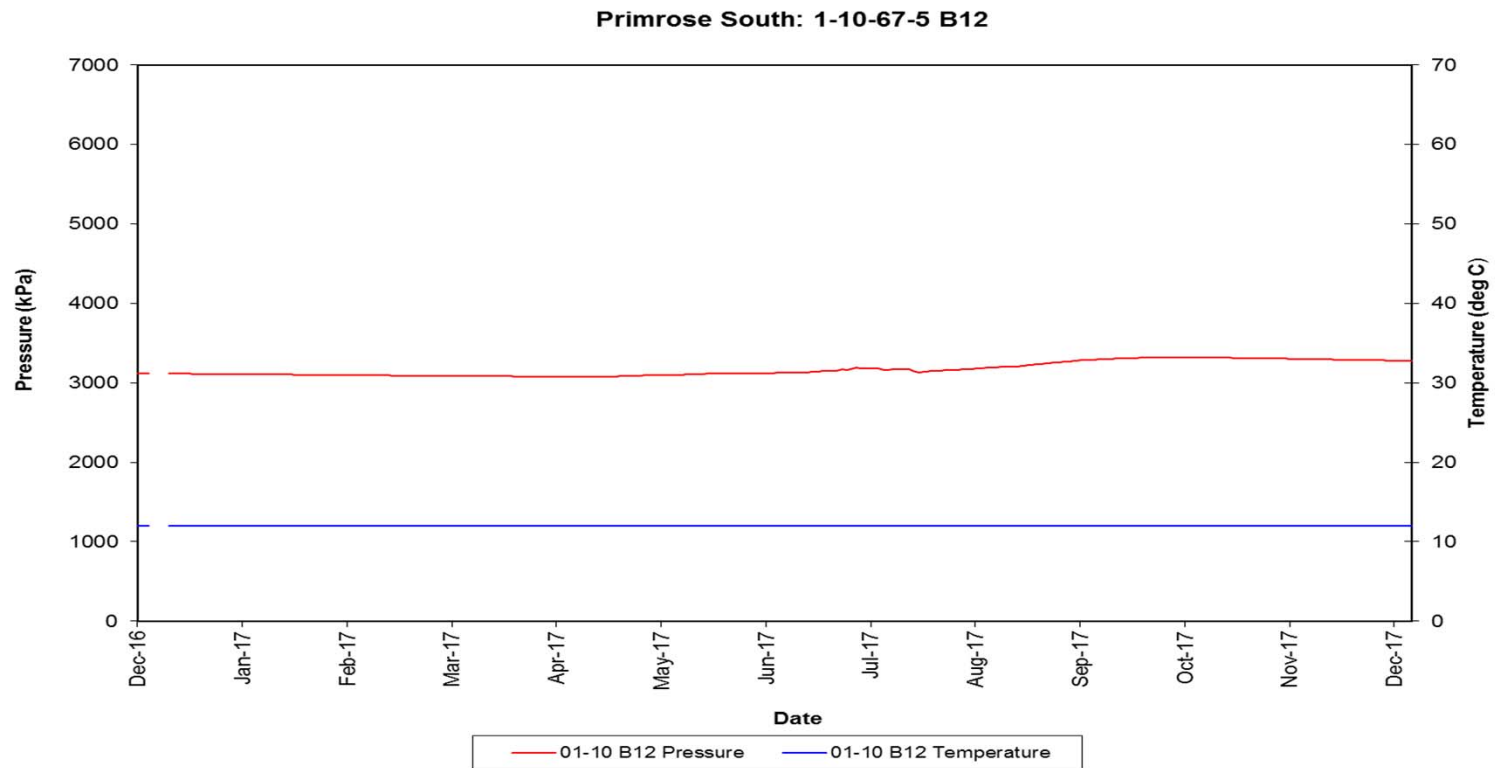
Primrose South Colony

Pressure & Temperature Monitoring – 1-10



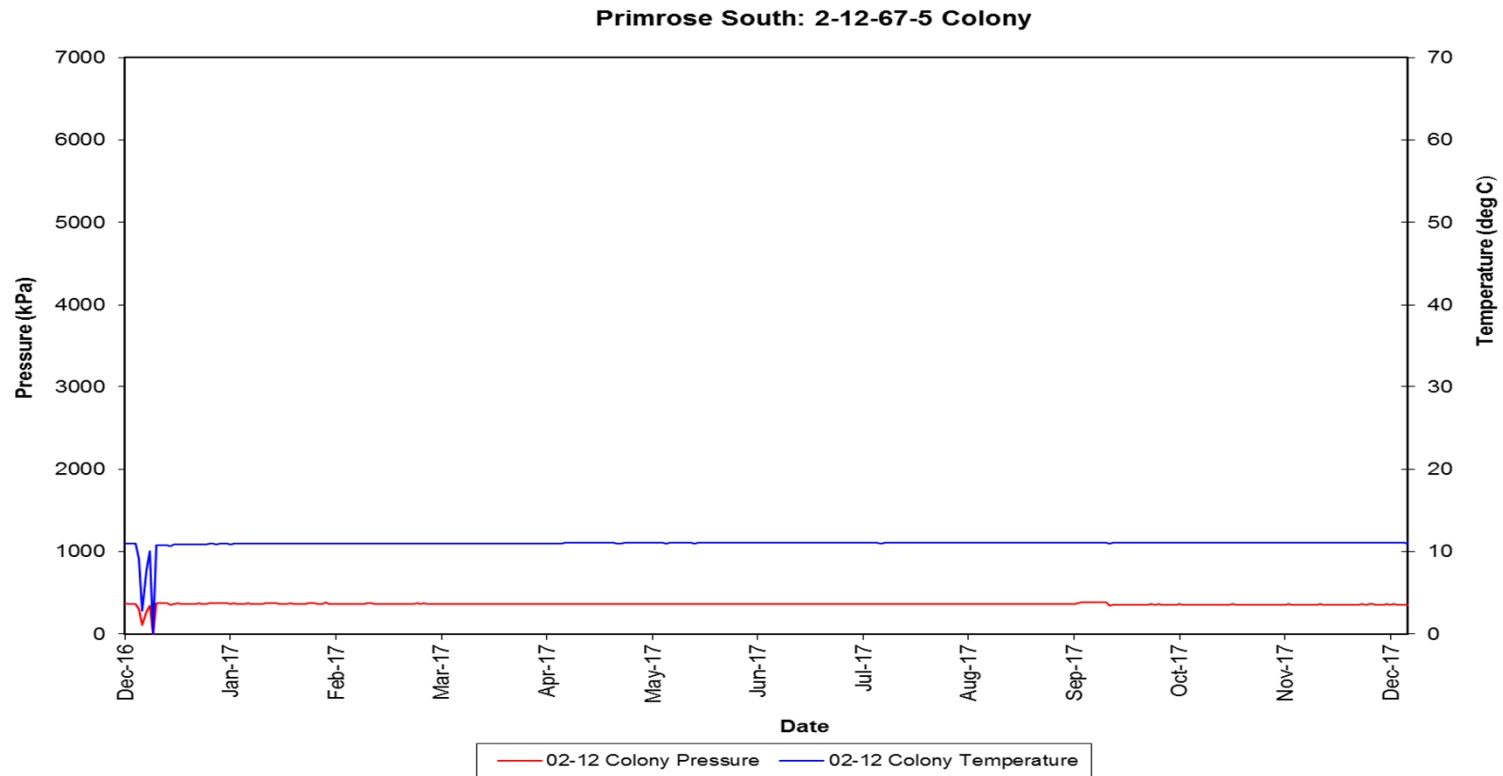
Primrose South B12

Pressure & Temperature Monitoring – 1-10



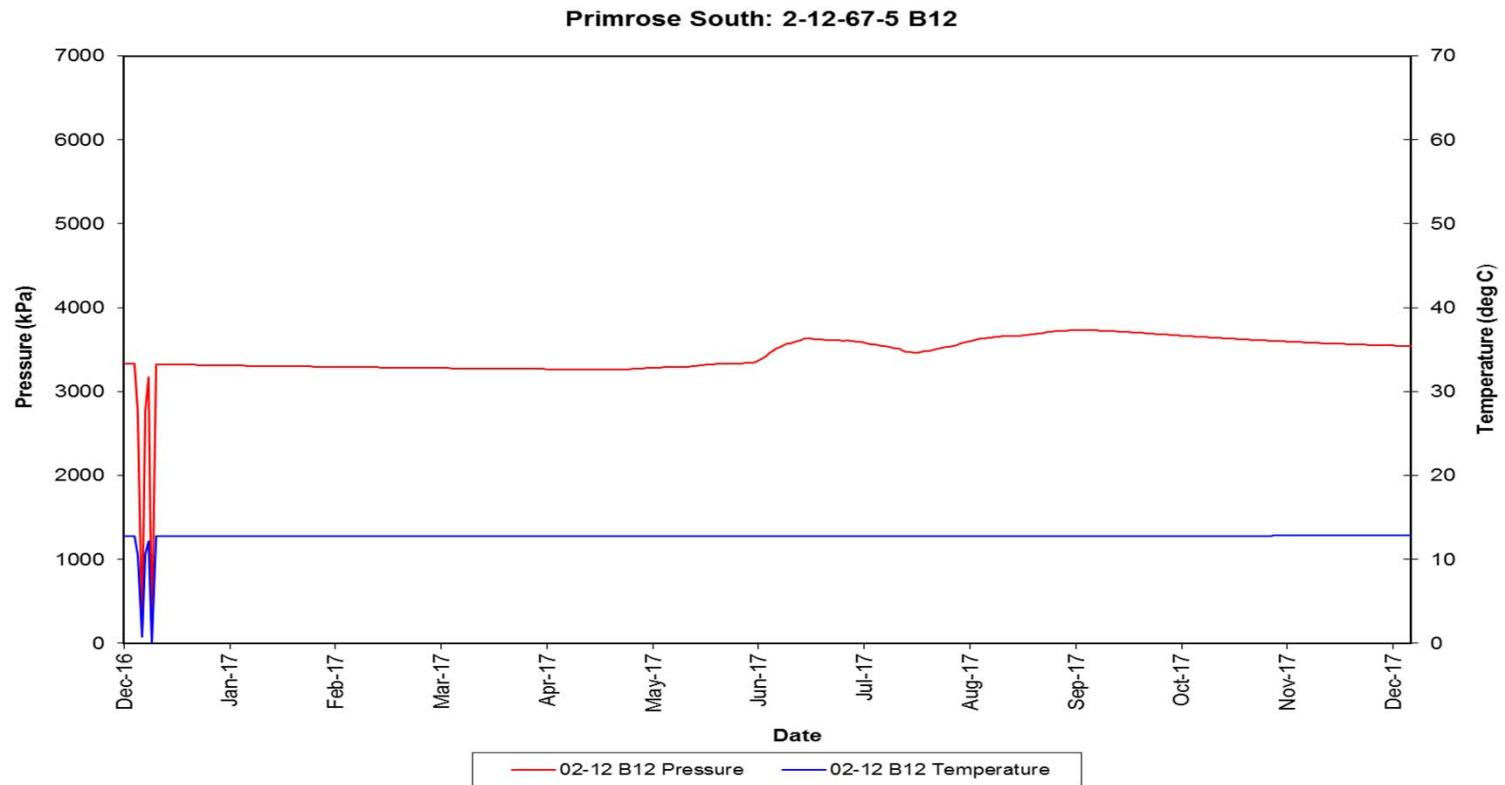
Primrose South Colony

Pressure & Temperature Monitoring – 2-12



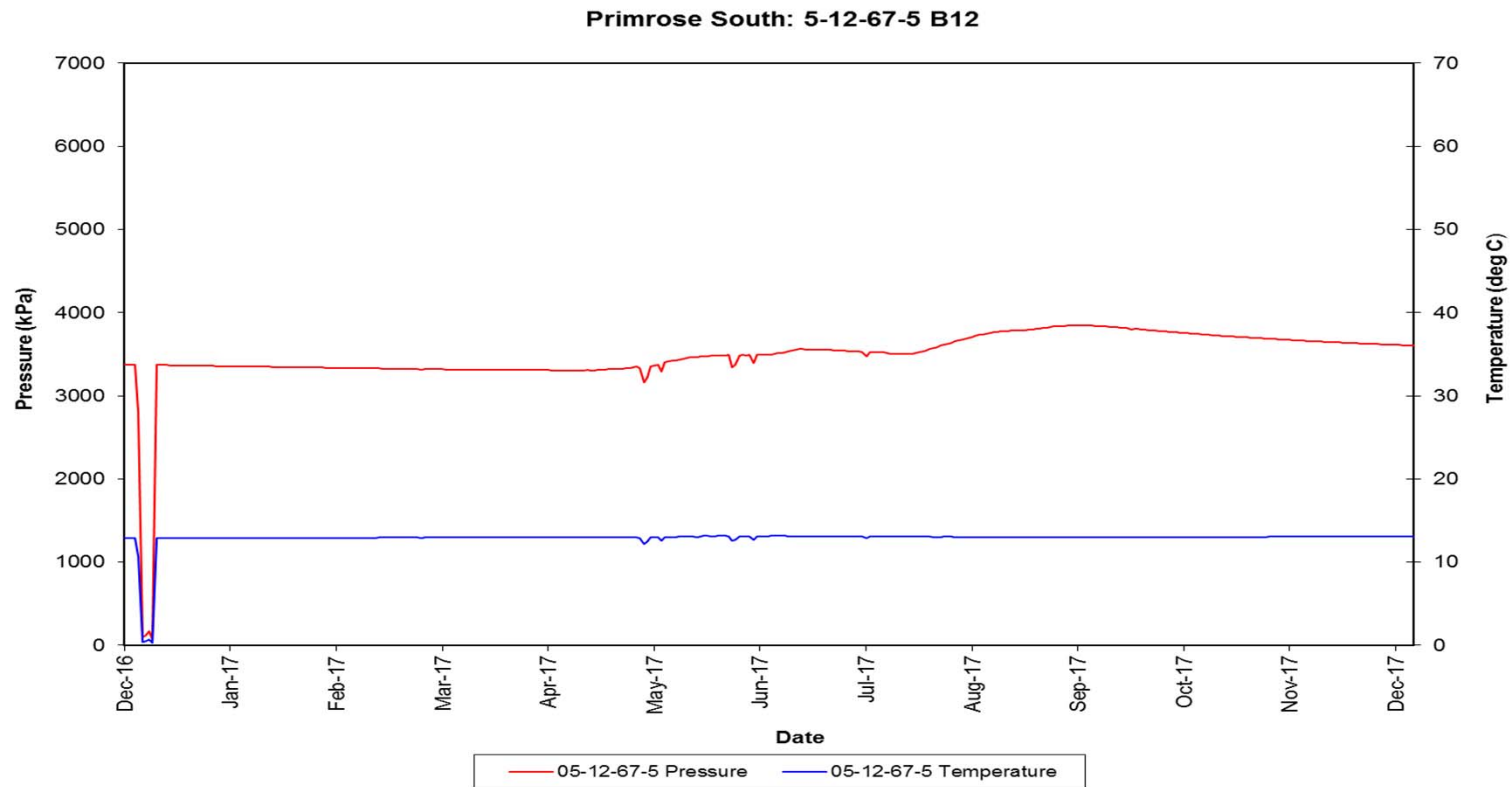
Primrose South B12

Pressure & Temperature Monitoring – 2-12



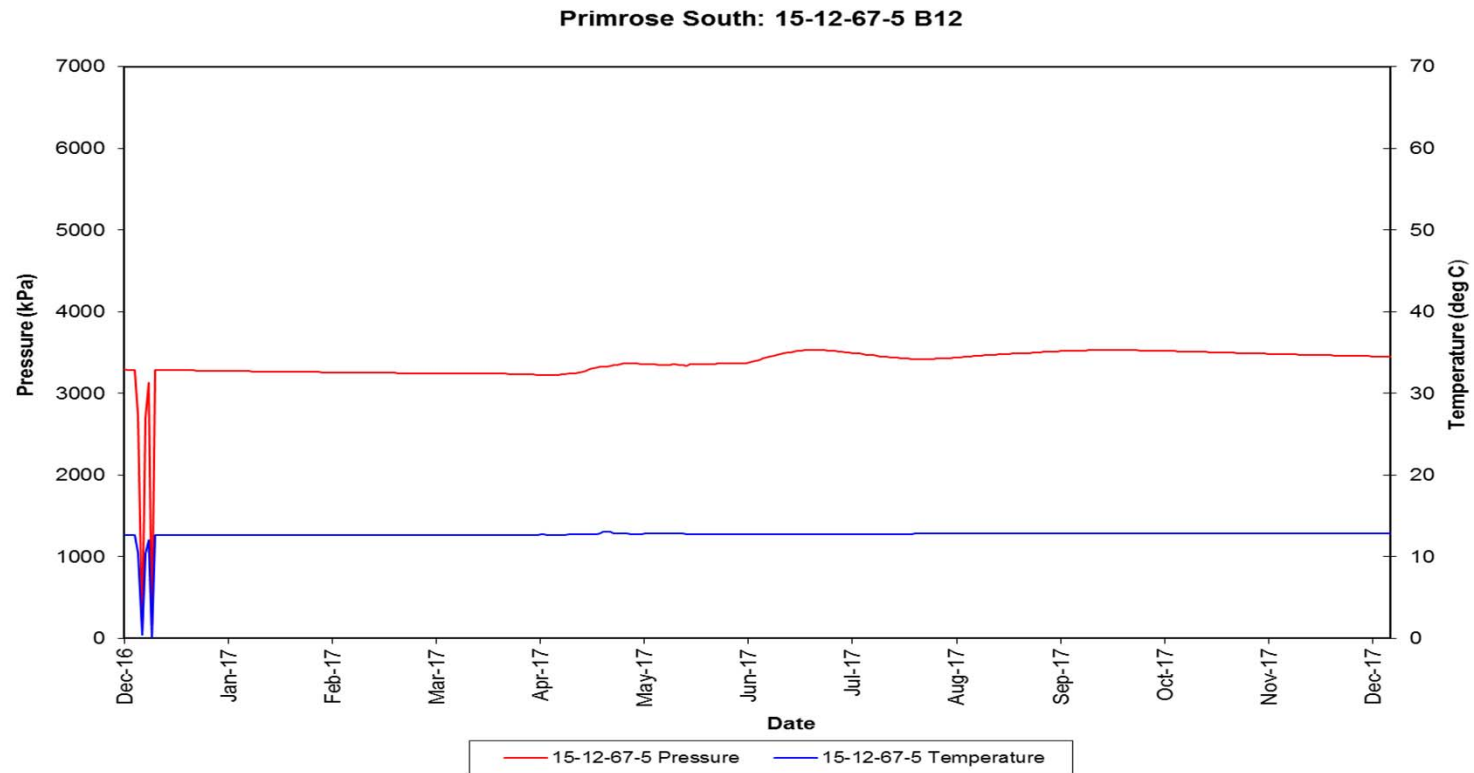
Primrose South B12

Pressure & Temperature Monitoring – 5-12



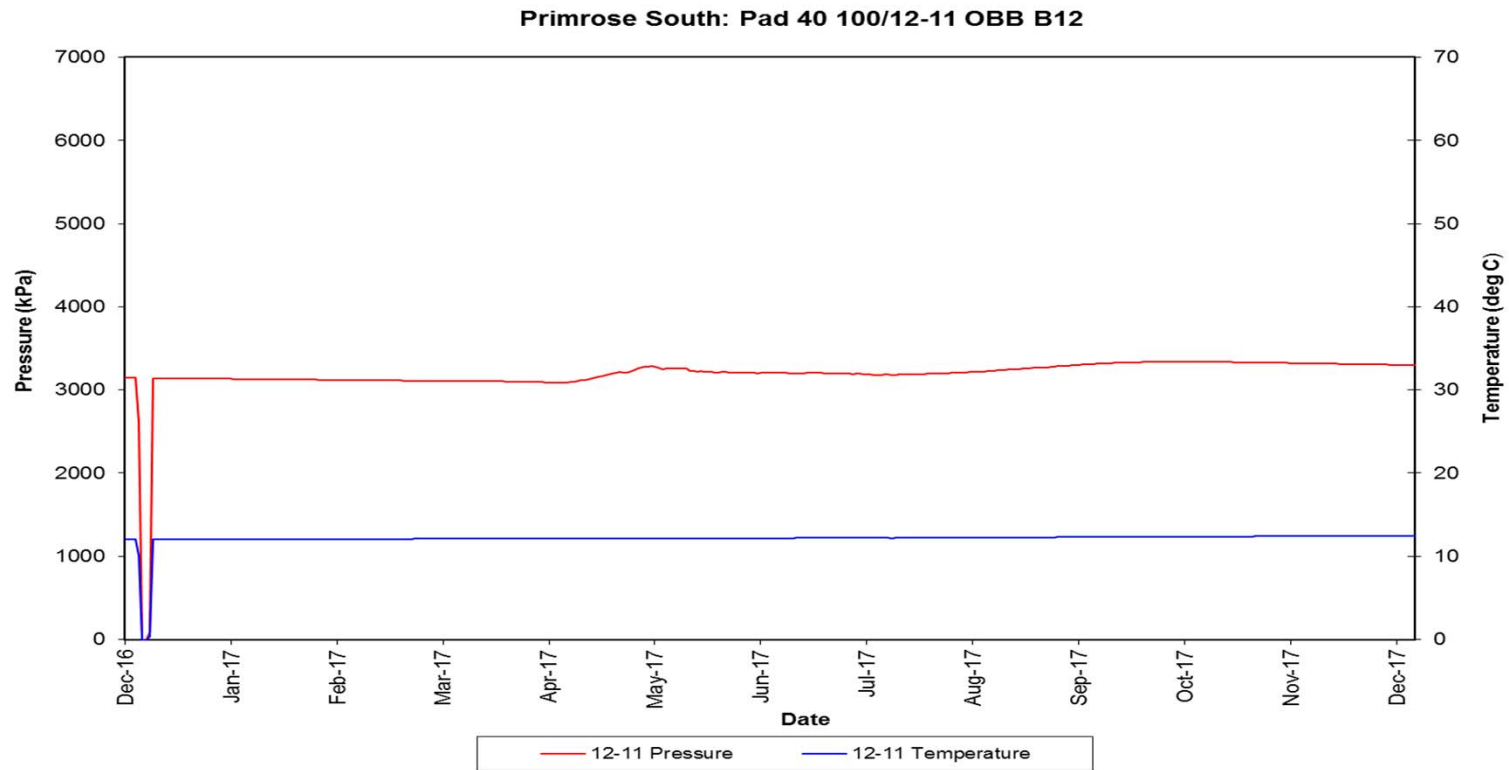
Primrose South B12

Pressure & Temperature Monitoring – 15-12



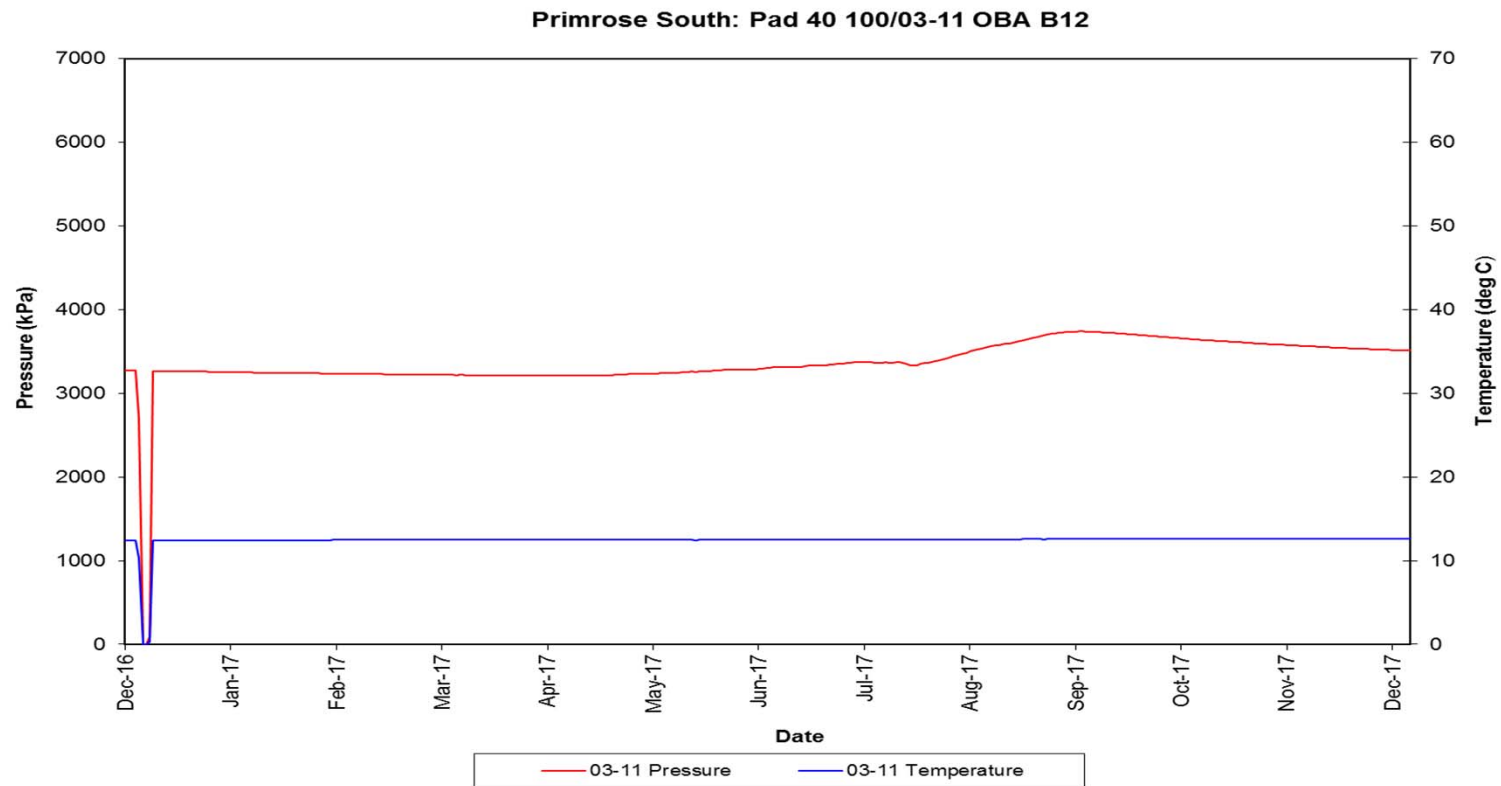
Primrose South B-12

Pressure & Temperature Monitoring – 12-11



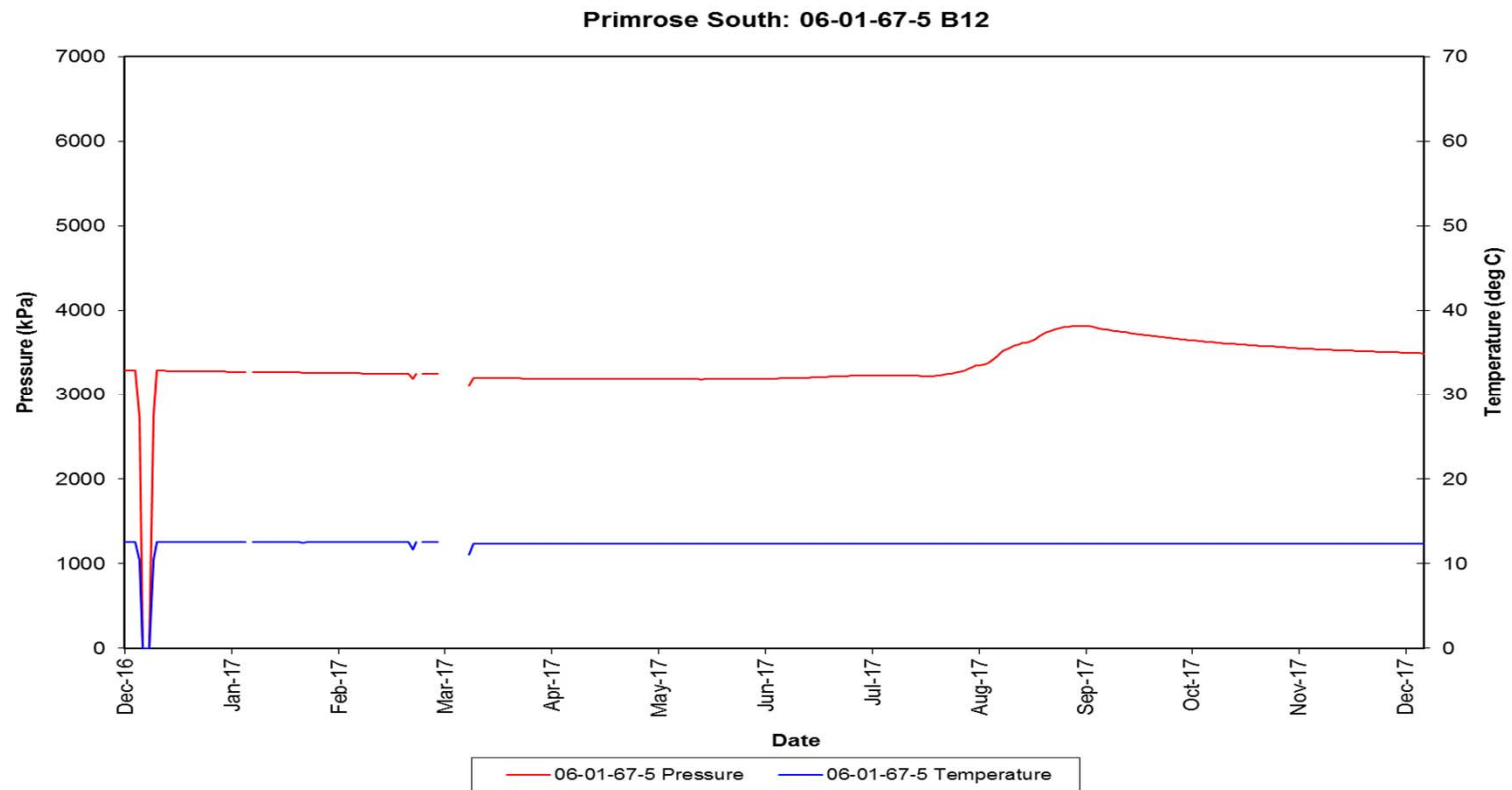
Primrose South B12

Pressure & Temperature Monitoring – 3-11



Primrose South B12

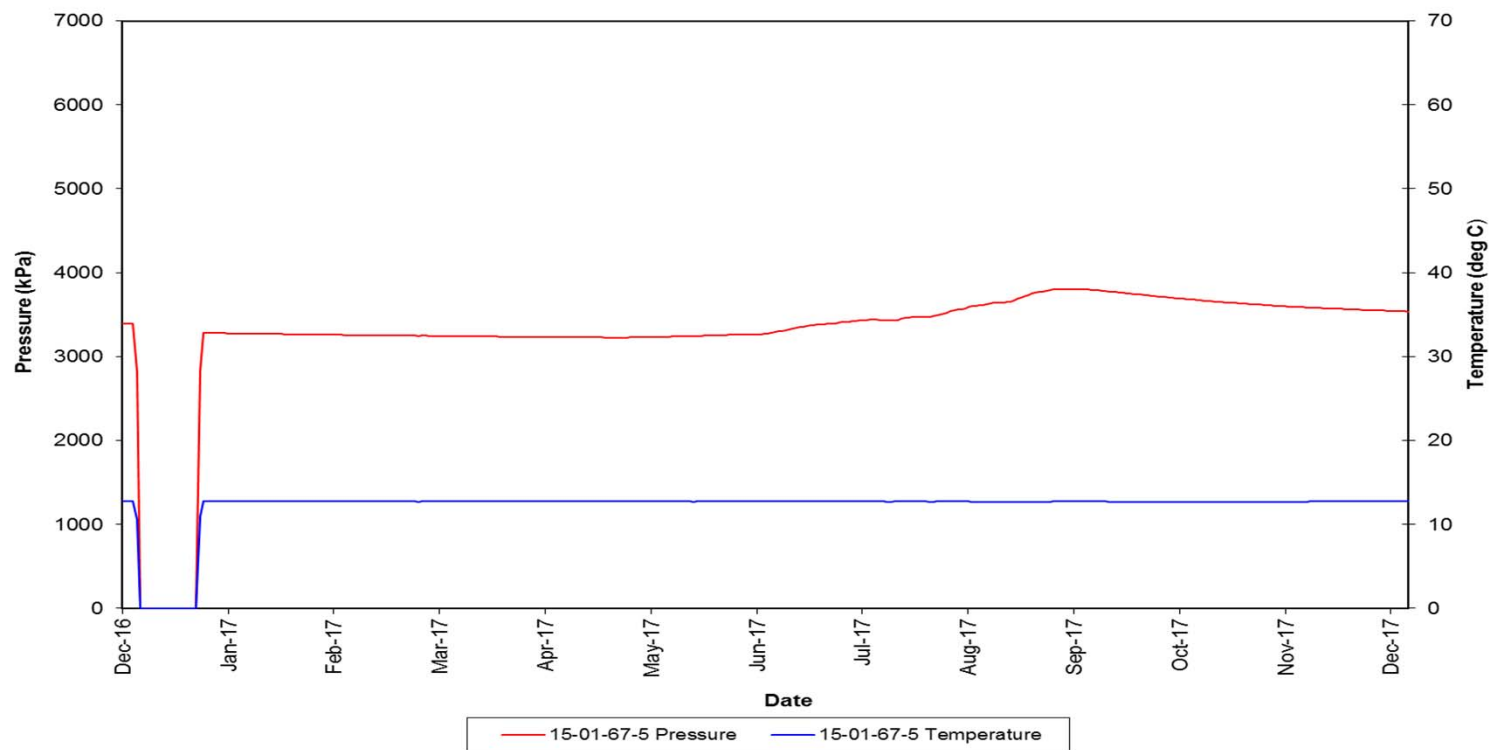
Pressure & Temperature Monitoring – 06-01



Primrose South B12

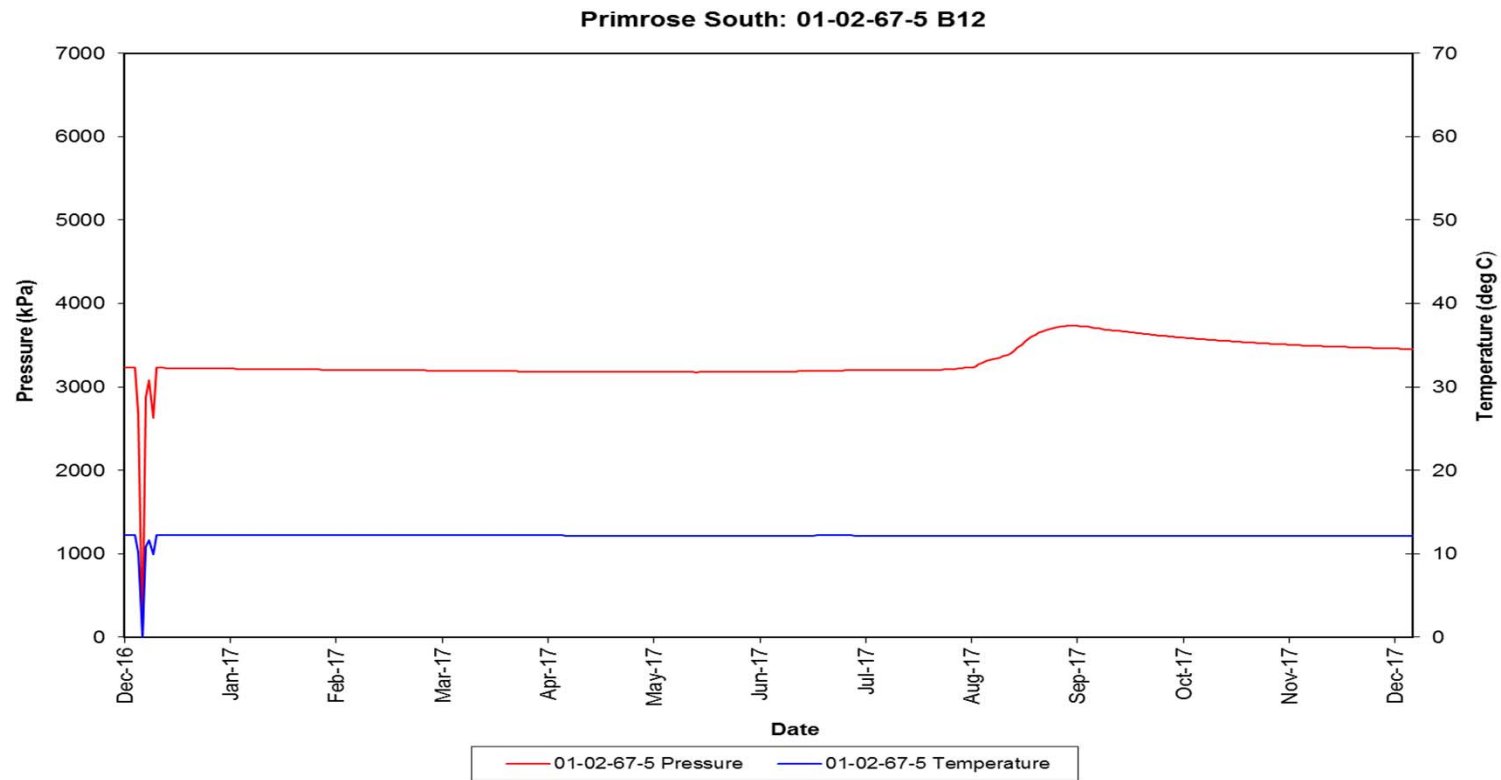
Pressure & Temperature Monitoring – 15-01

Primrose South: 15-01-67-5 B12



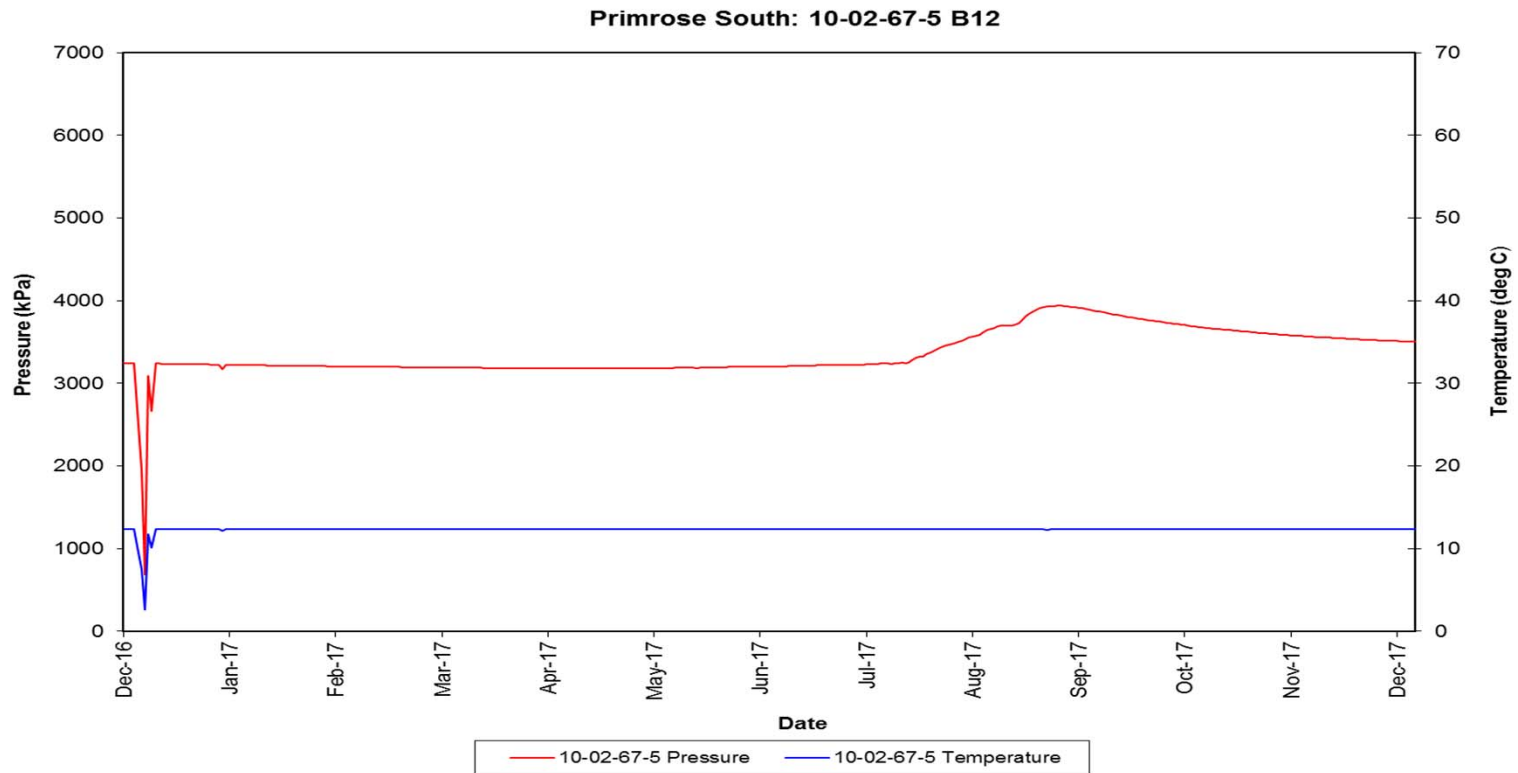
Primrose South B12

Pressure & Temperature Monitoring – 01-02



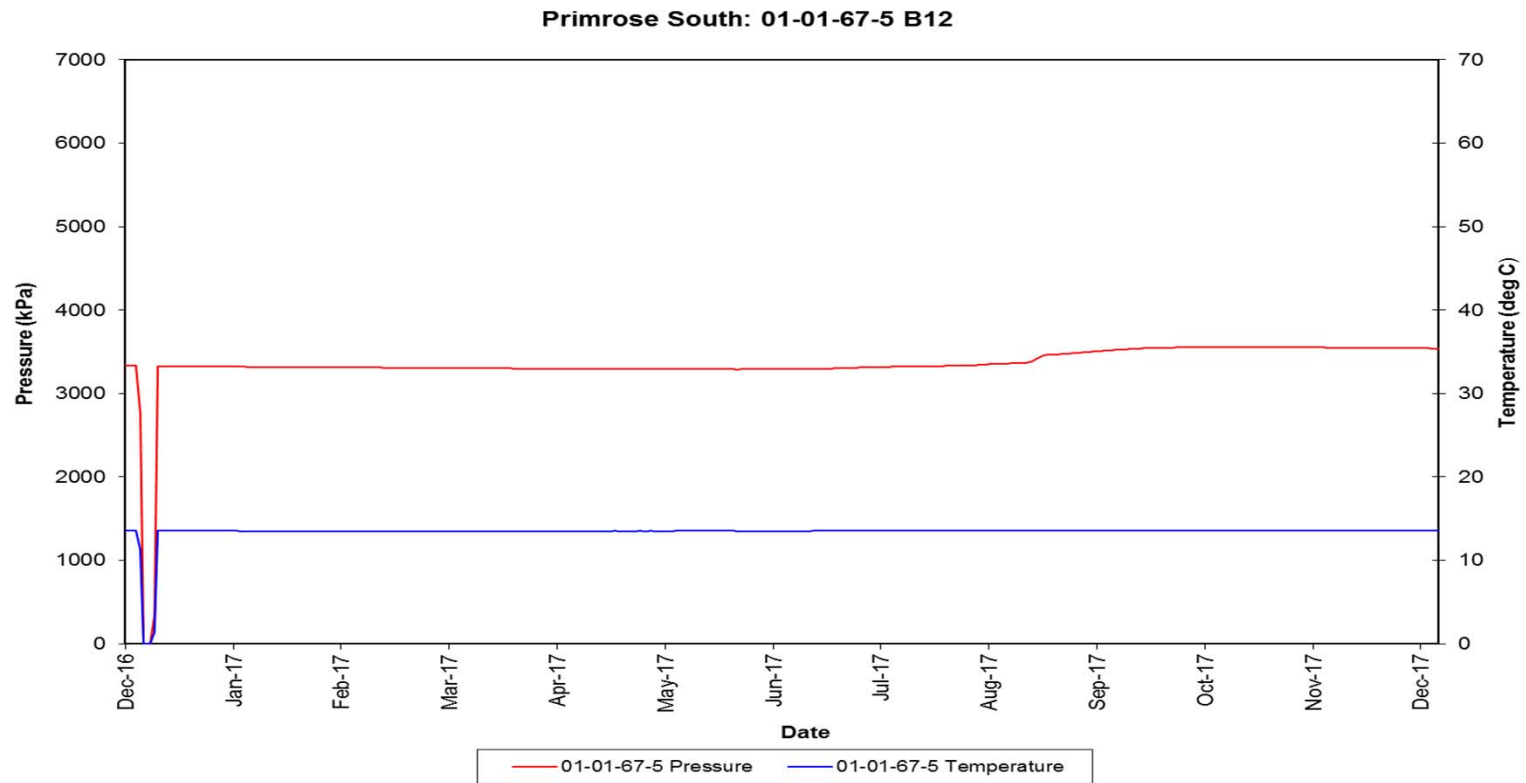
Primrose South B12

Pressure & Temperature Monitoring – 10-02



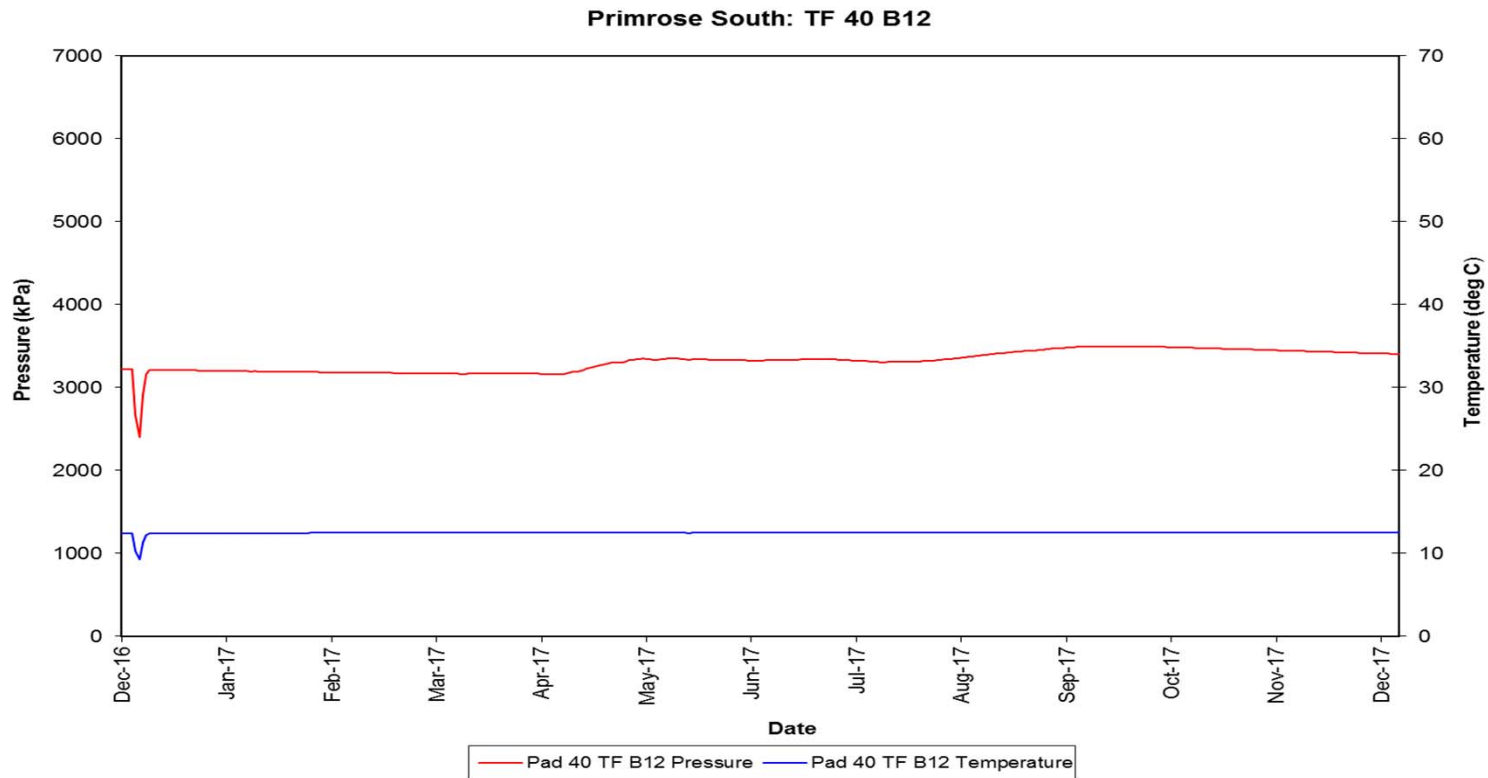
Primrose South B12

Pressure & Temperature Monitoring – 01-01



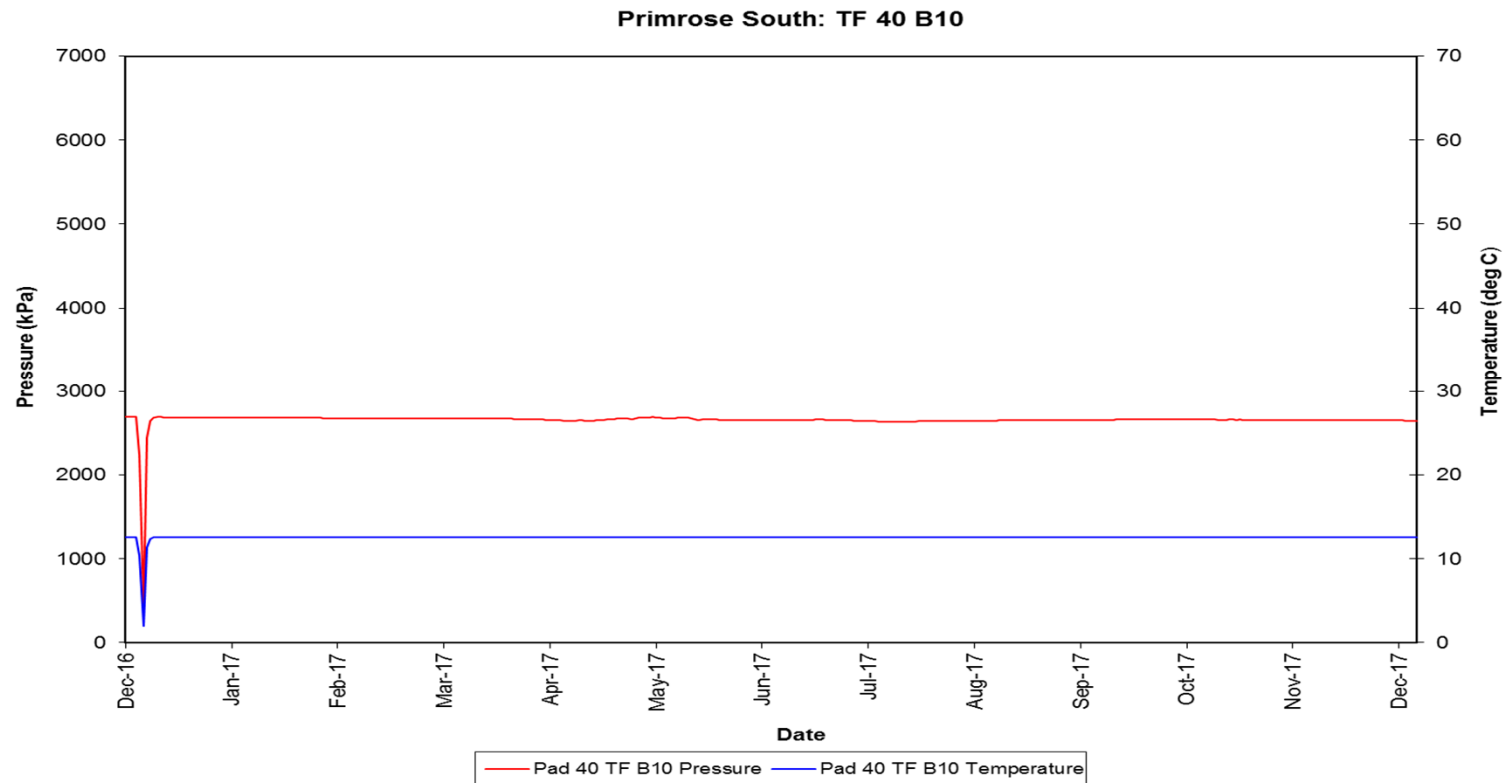
Primrose South B12

Pressure & Temperature Monitoring – TF 40



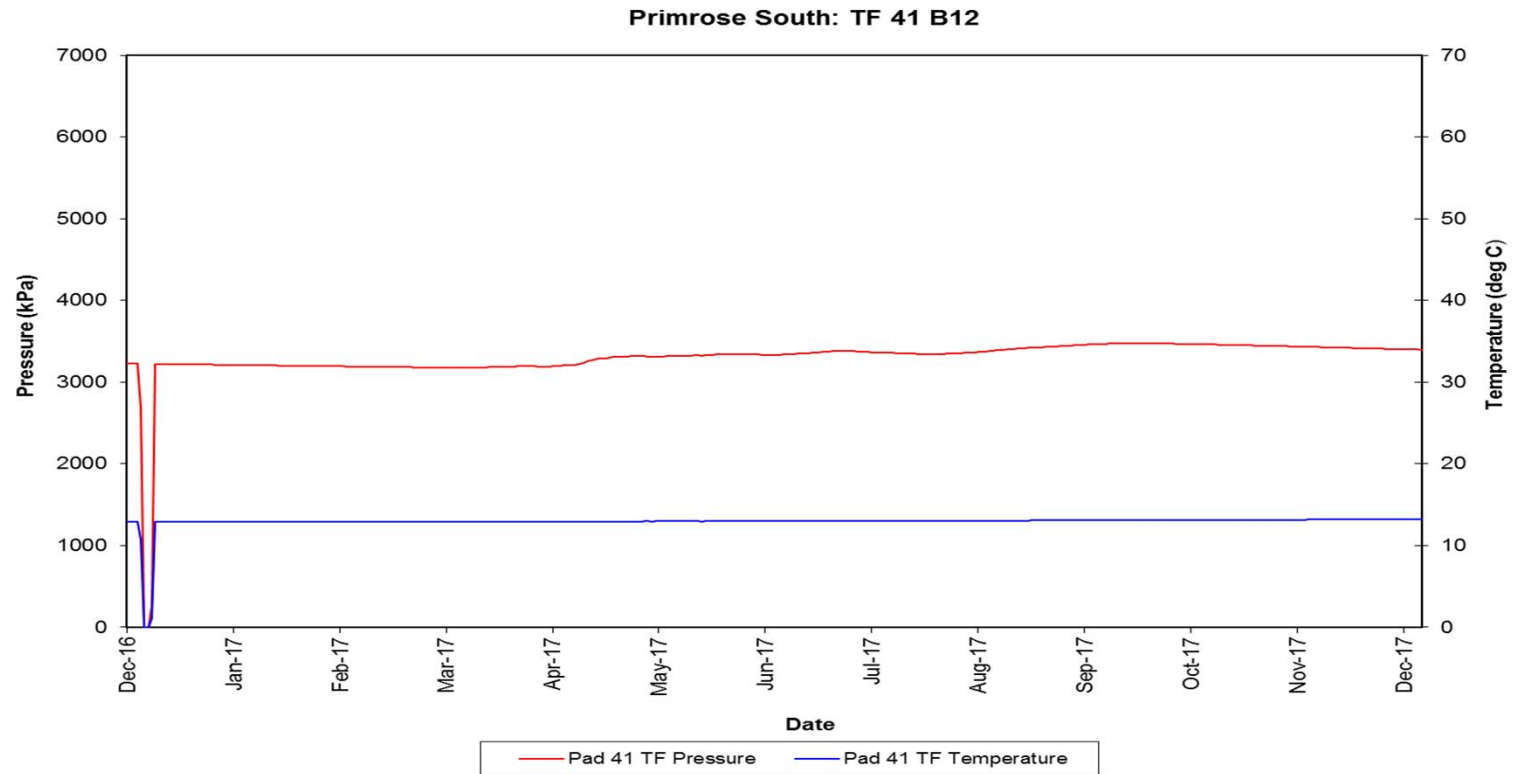
Primrose South B10

Pressure & Temperature Monitoring – TF 40



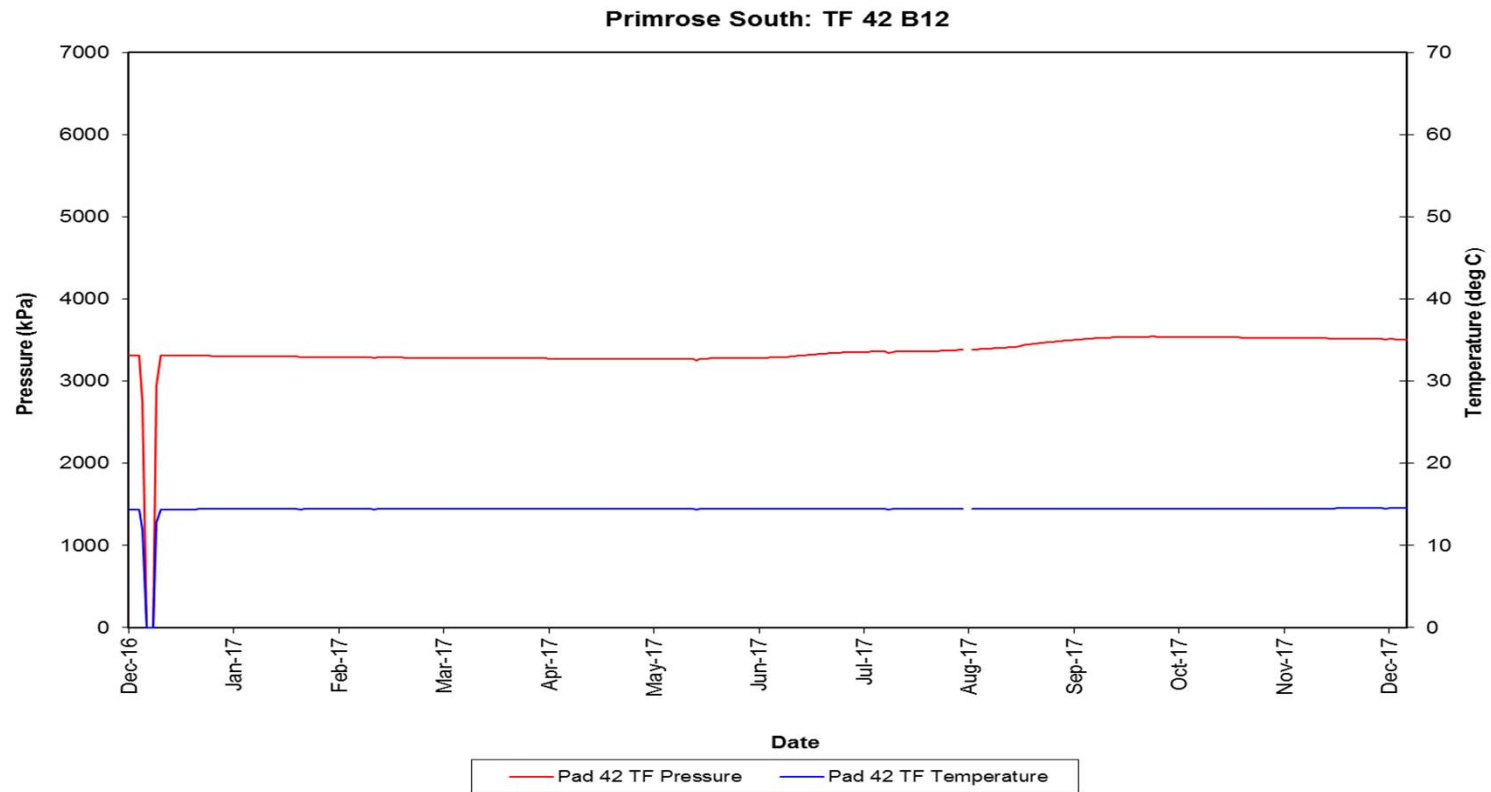
Primrose South B12

Pressure & Temperature Monitoring – TF 41



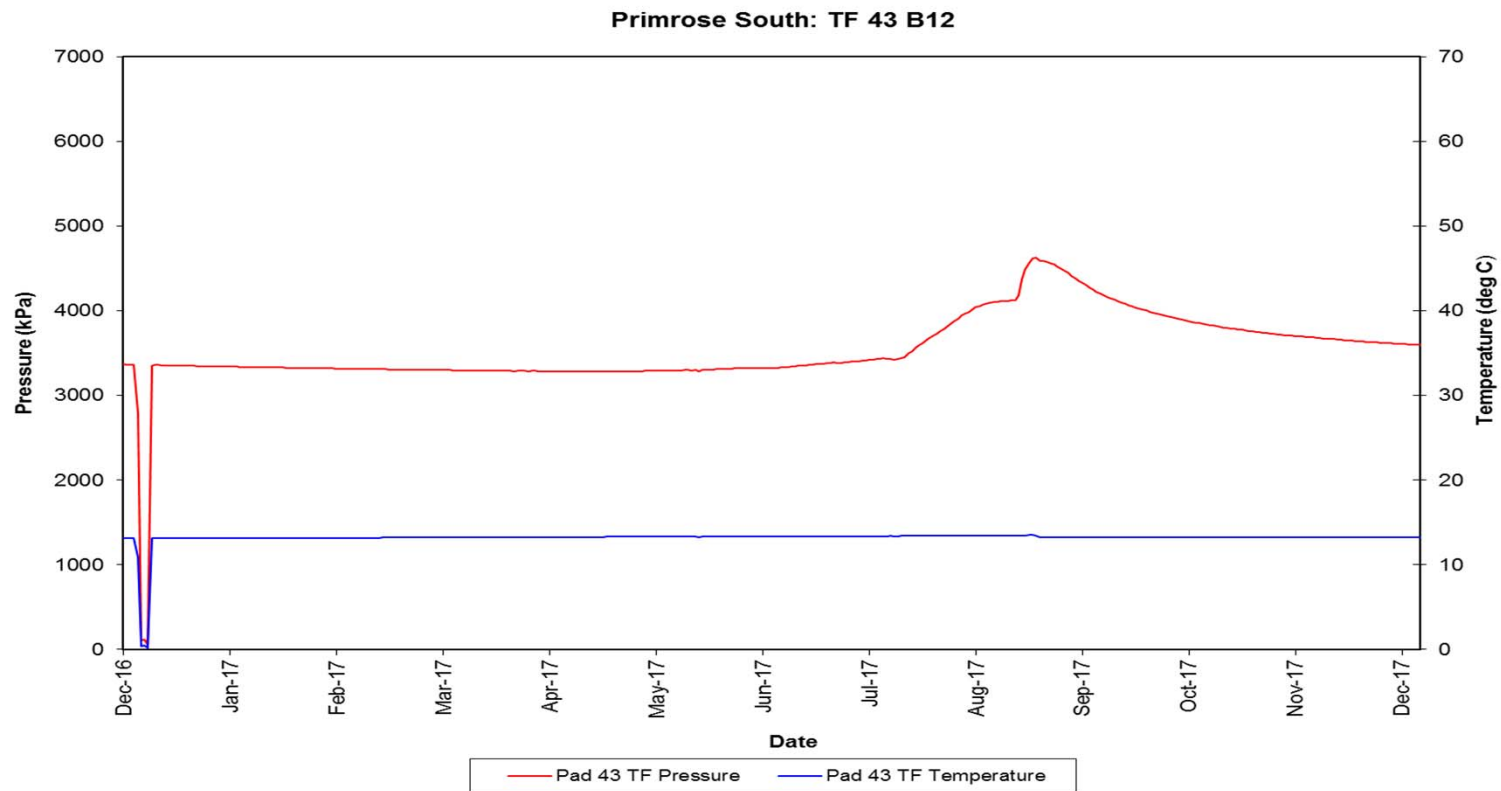
Primrose South B12

Pressure & Temperature Monitoring – TF 42



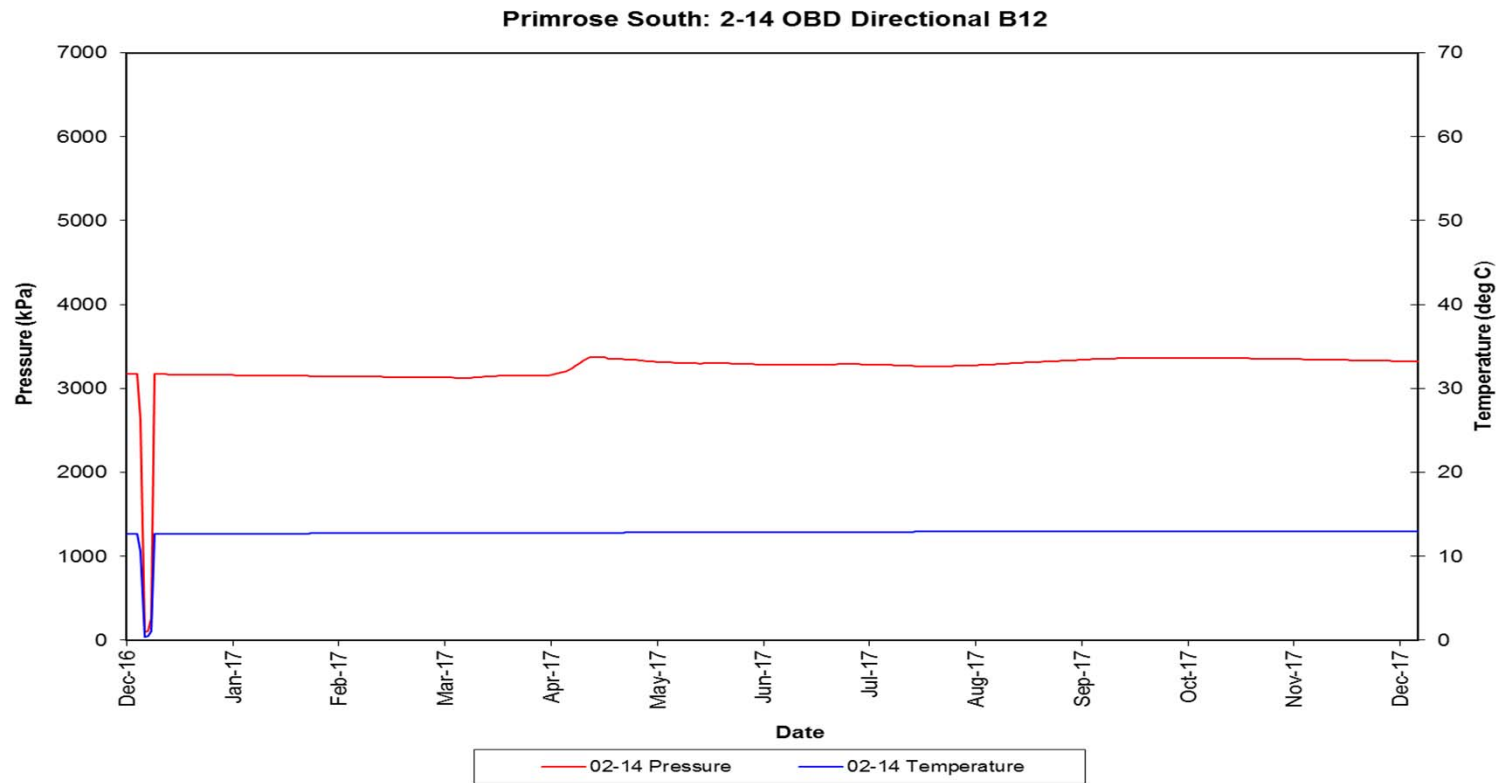
Primrose South B12

Pressure & Temperature Monitoring – TF 43



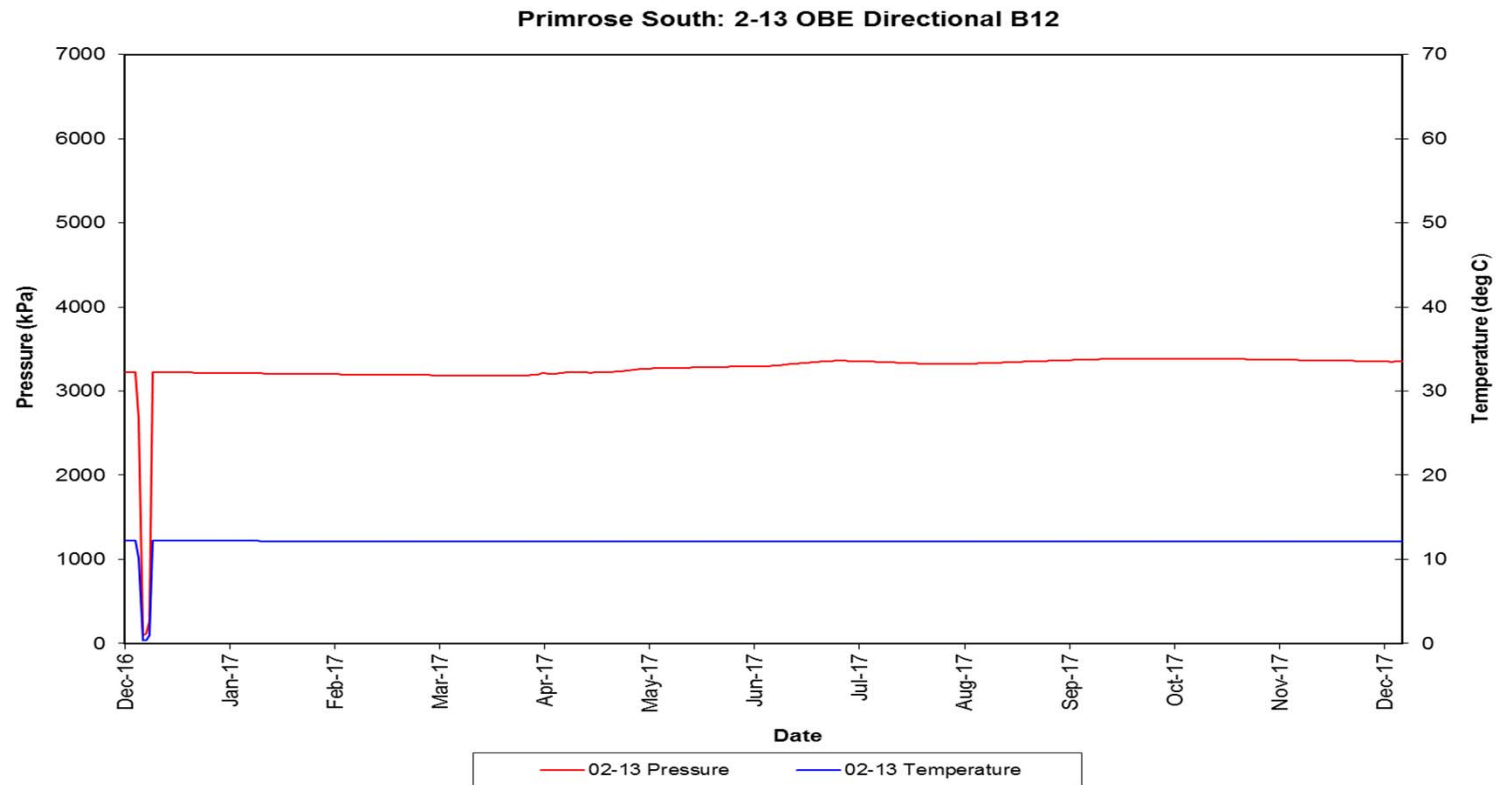
Primrose South B12

Pressure & Temperature Monitoring – 02-14



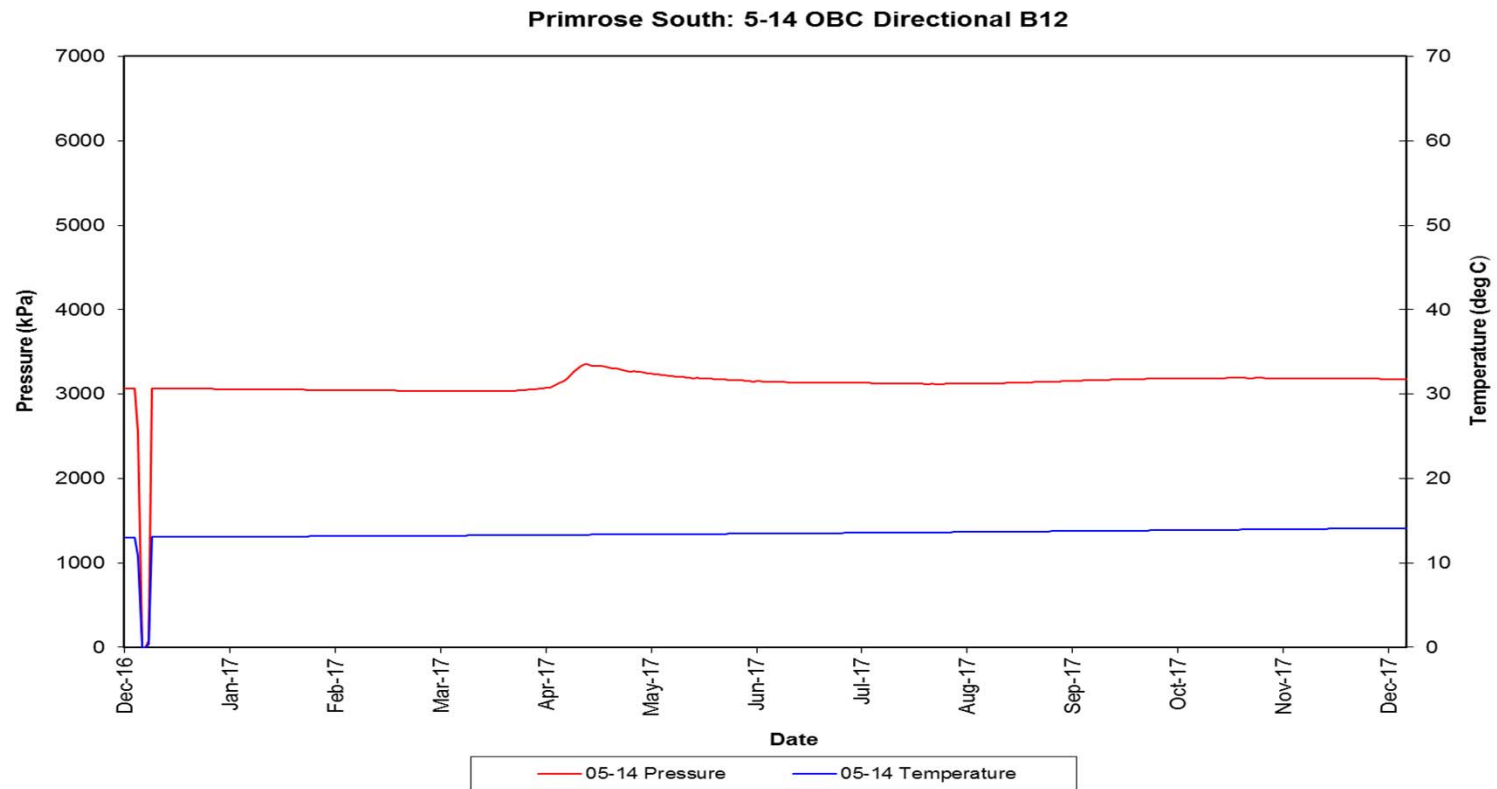
Primrose South B12

Pressure & Temperature Monitoring – 02-13



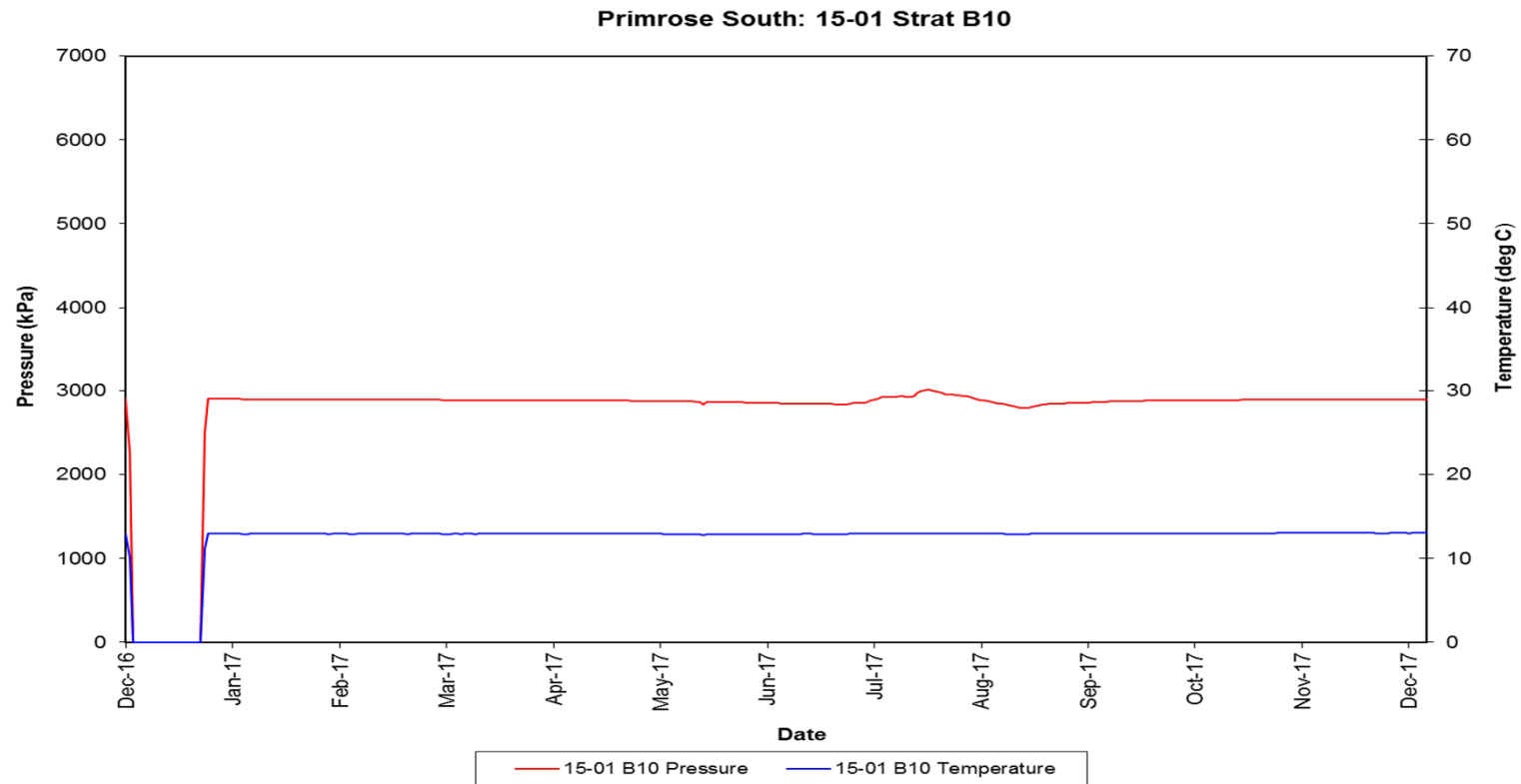
Primrose South B12

Pressure & Temperature Monitoring – 05-14



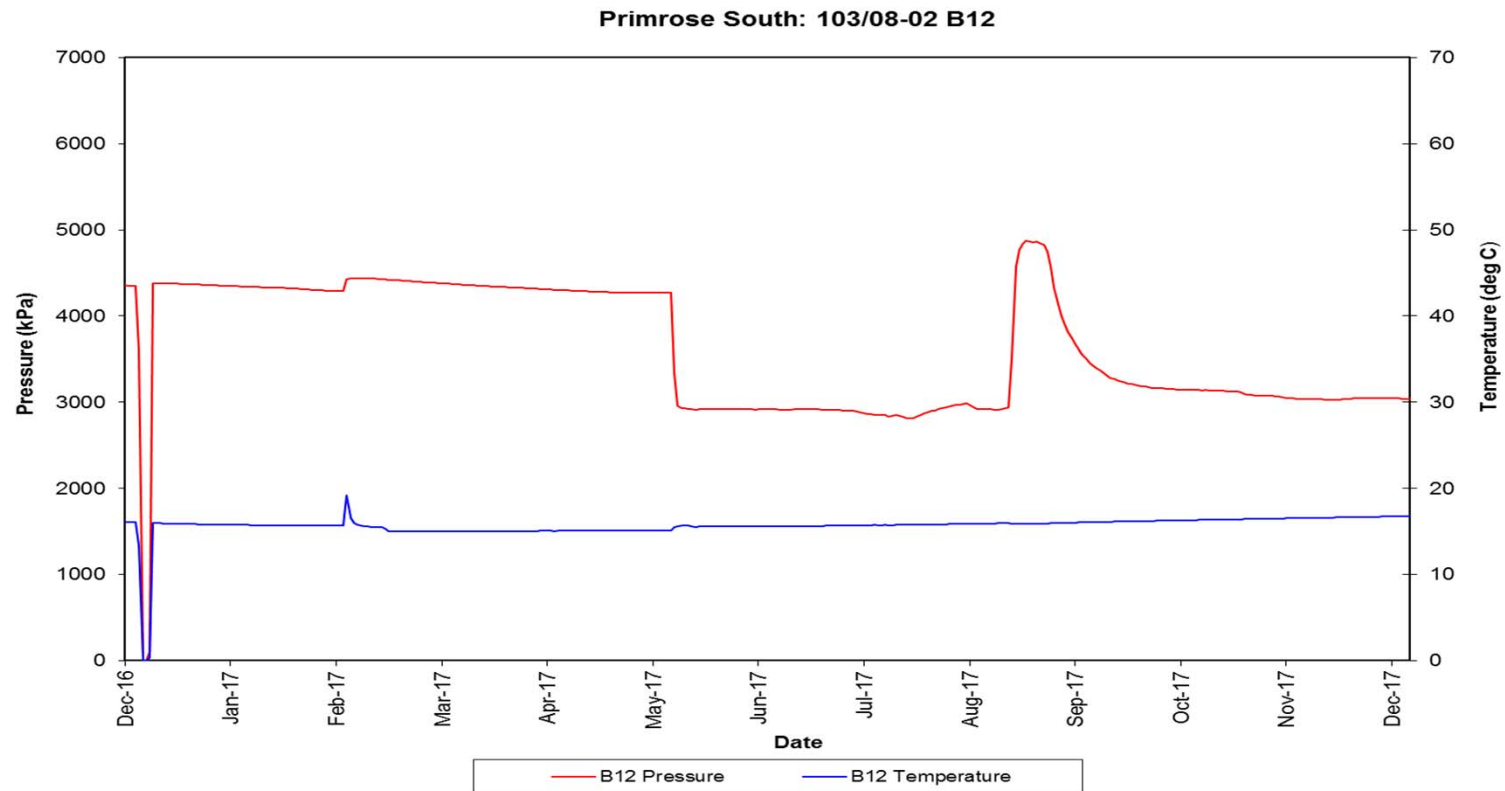
Primrose South B10

Pressure & Temperature Monitoring – 15-01



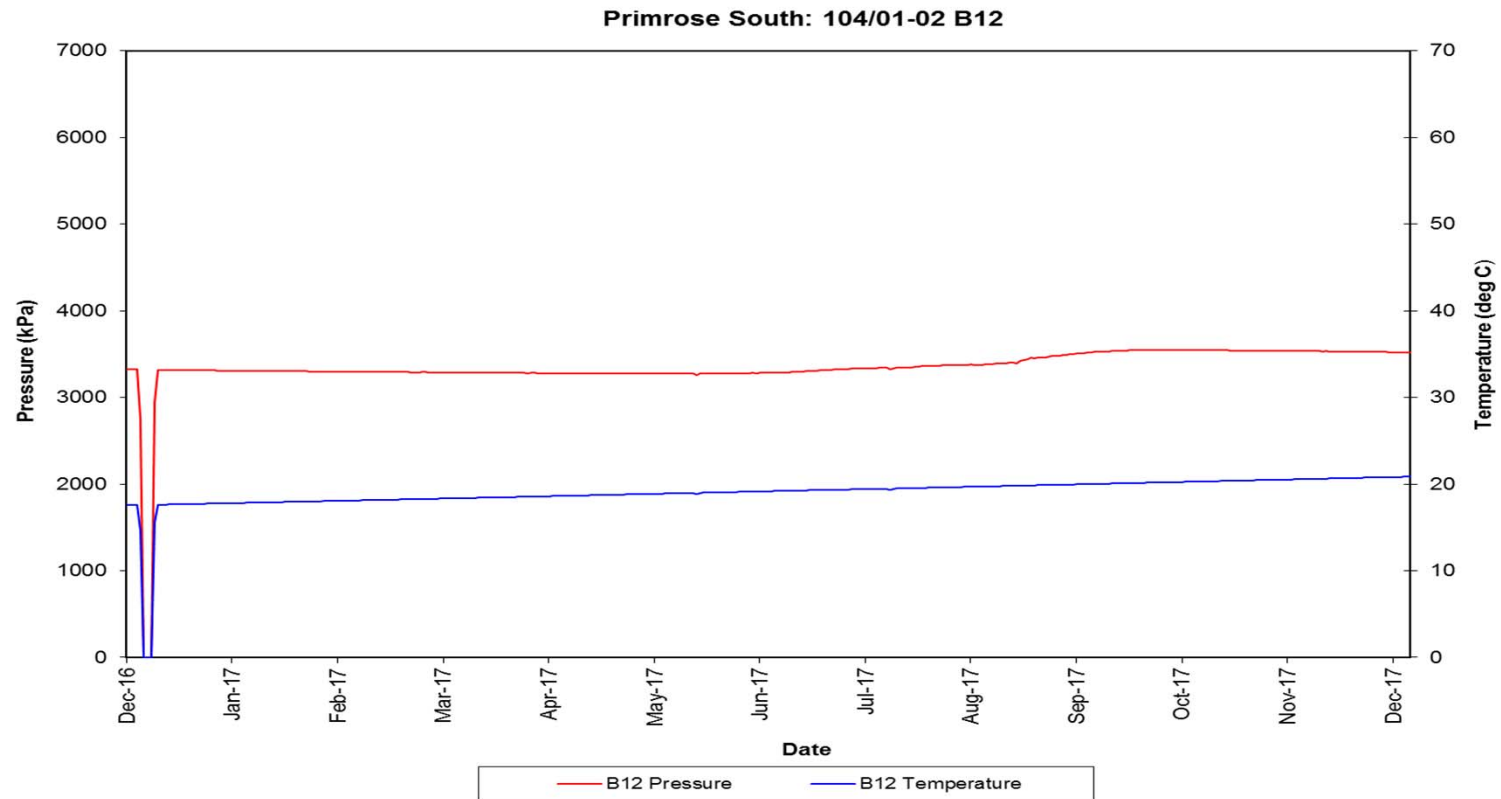
Primrose South B12

Pressure & Temperature Monitoring – 103/08-02

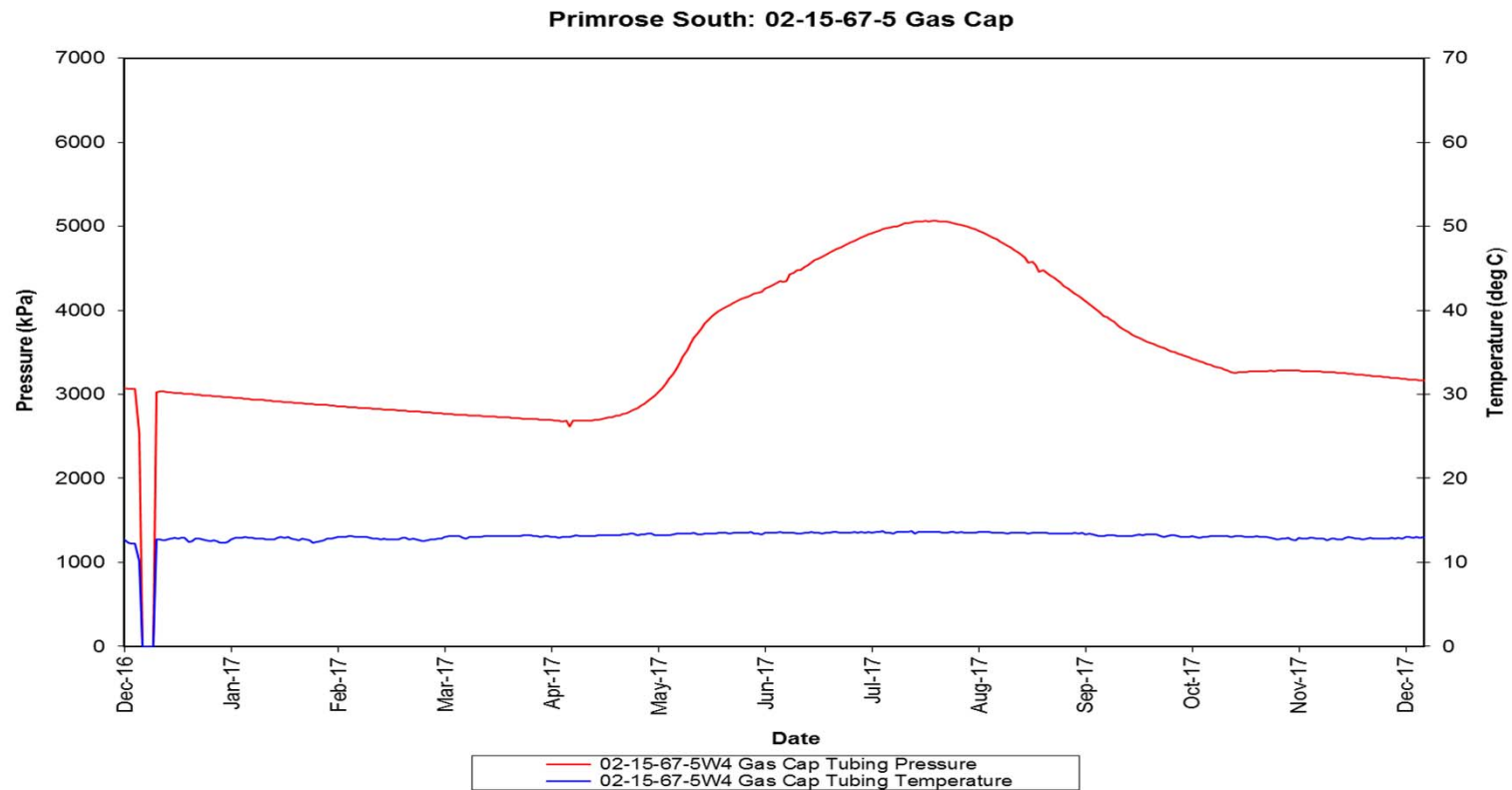


Primrose South B12

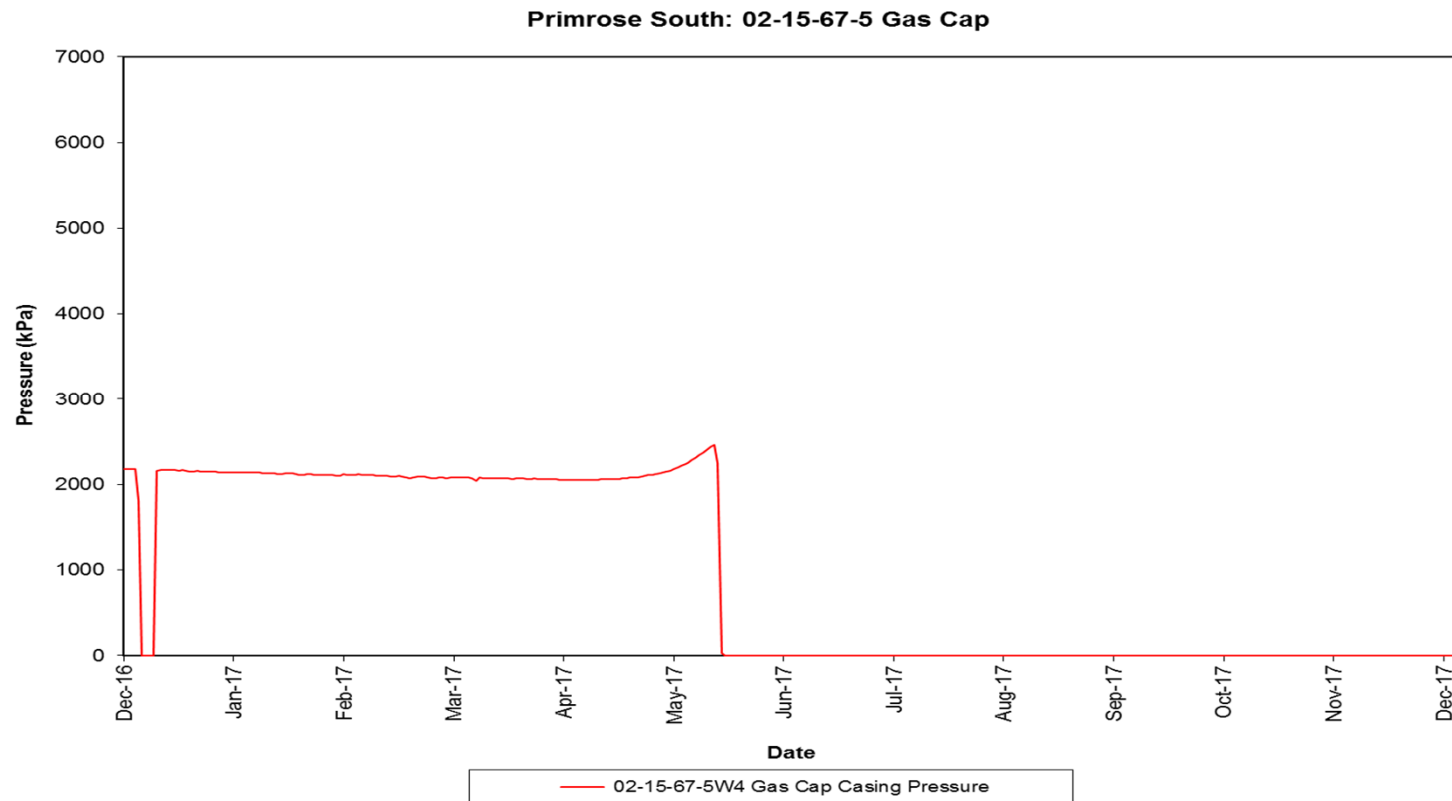
Pressure & Temperature Monitoring – 104/01-02



Primrose South Gas Cap Pressure & Temperature Monitoring – 02-15

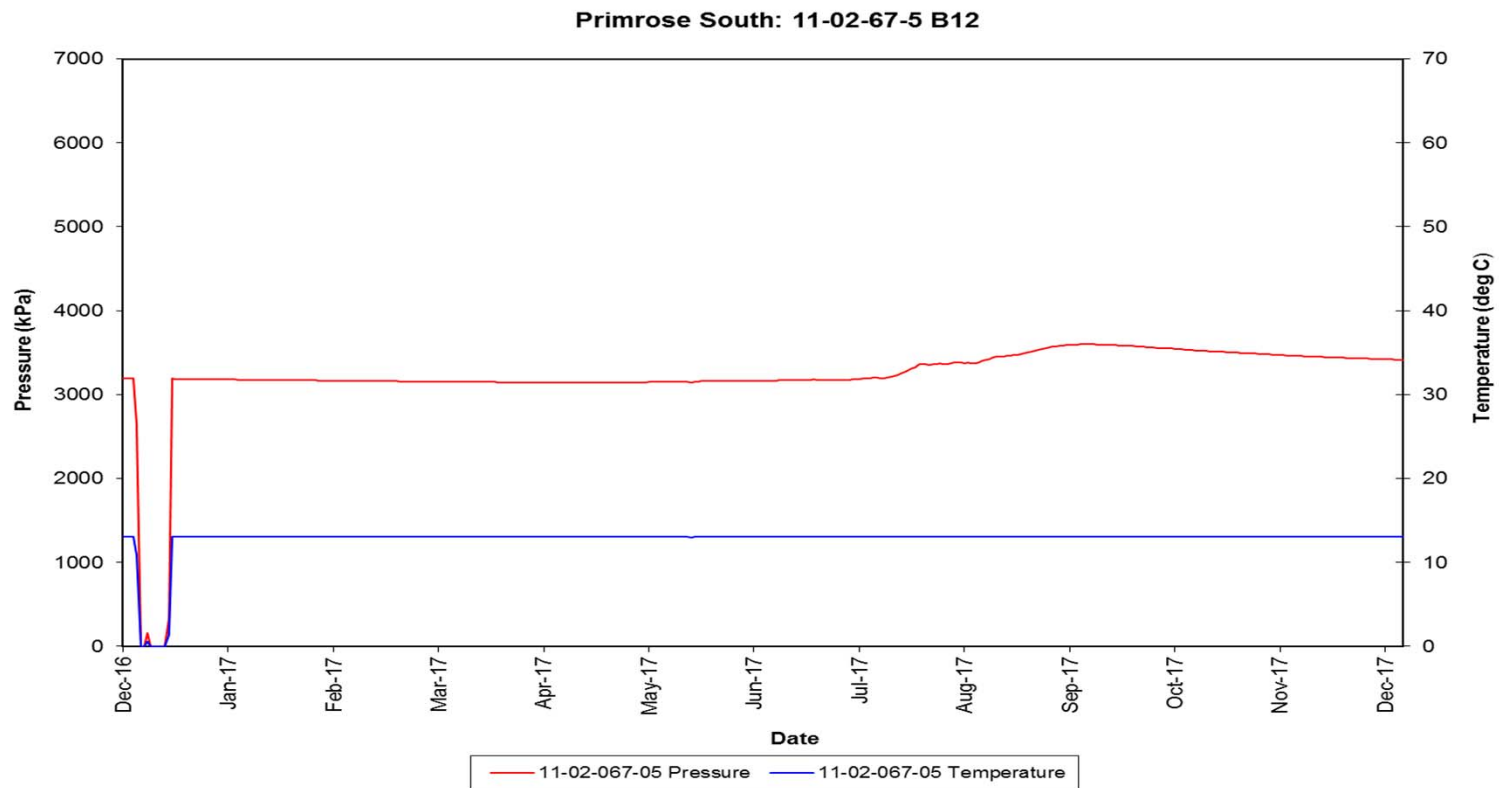


Primrose South Gas Cap Pressure & Temperature Monitoring – 02-15



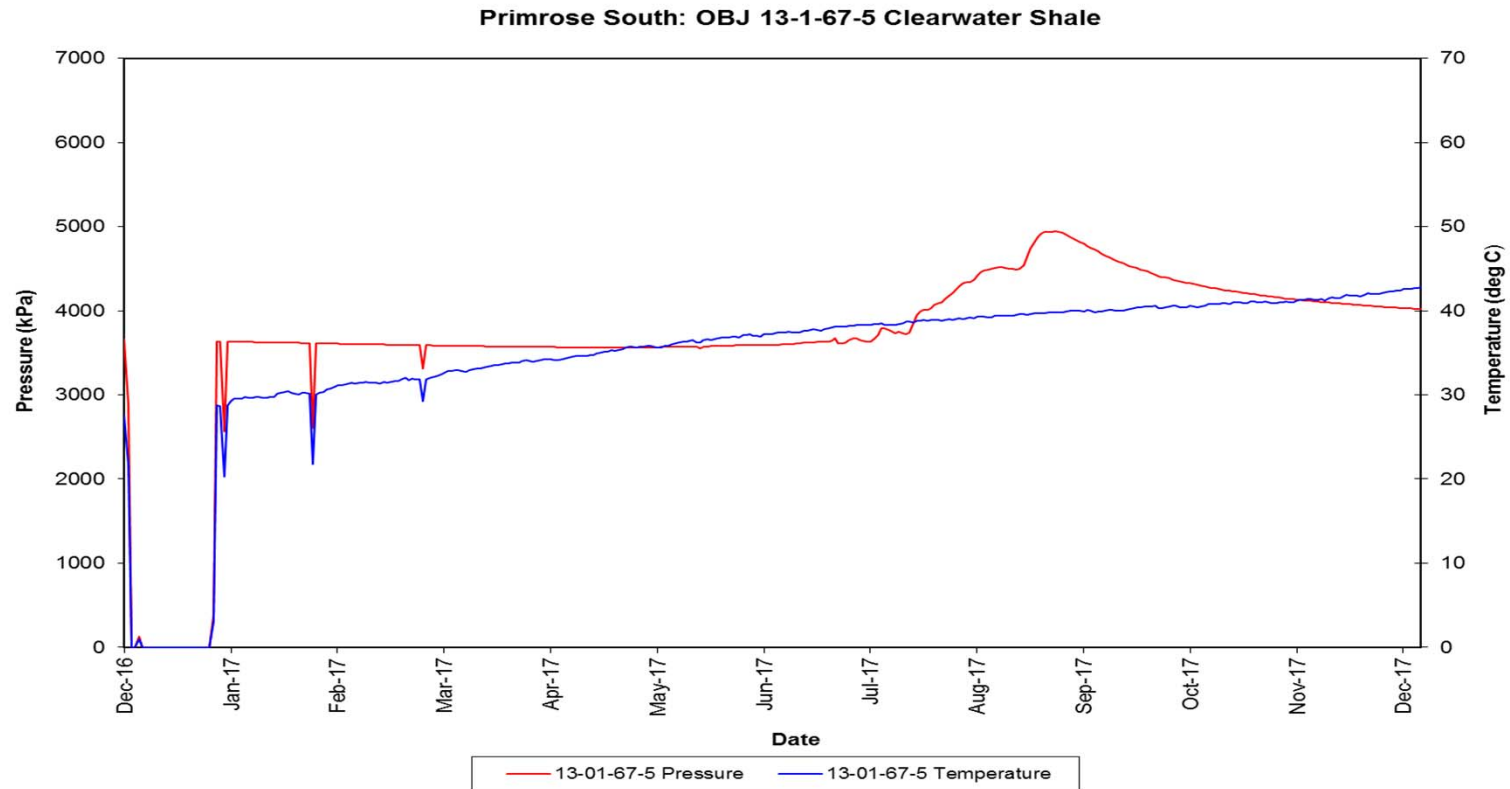
Primrose South B12

Pressure & Temperature Monitoring – 11-02



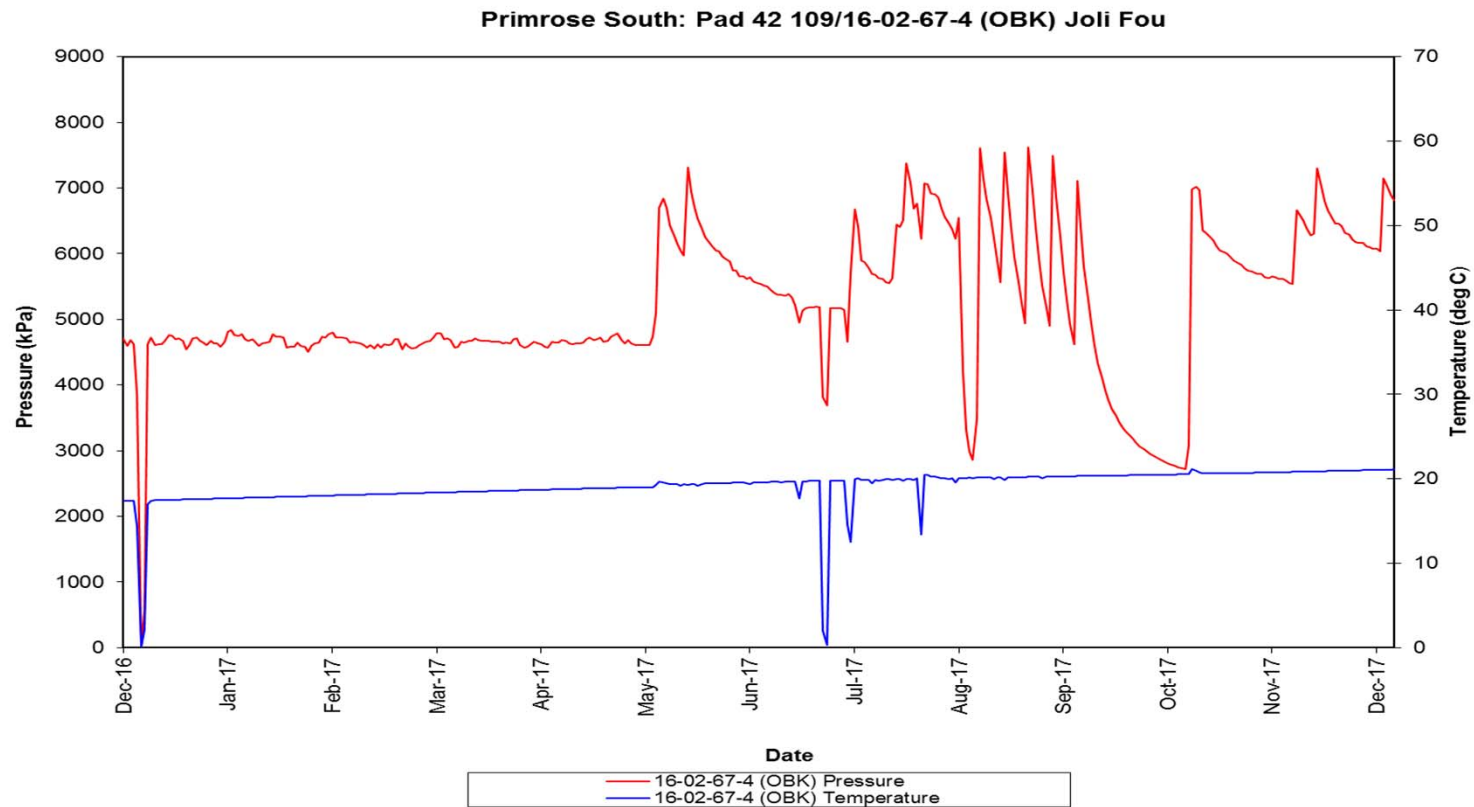
Primrose South CLWR Shale

Pressure & Temperature Monitoring – 13-01



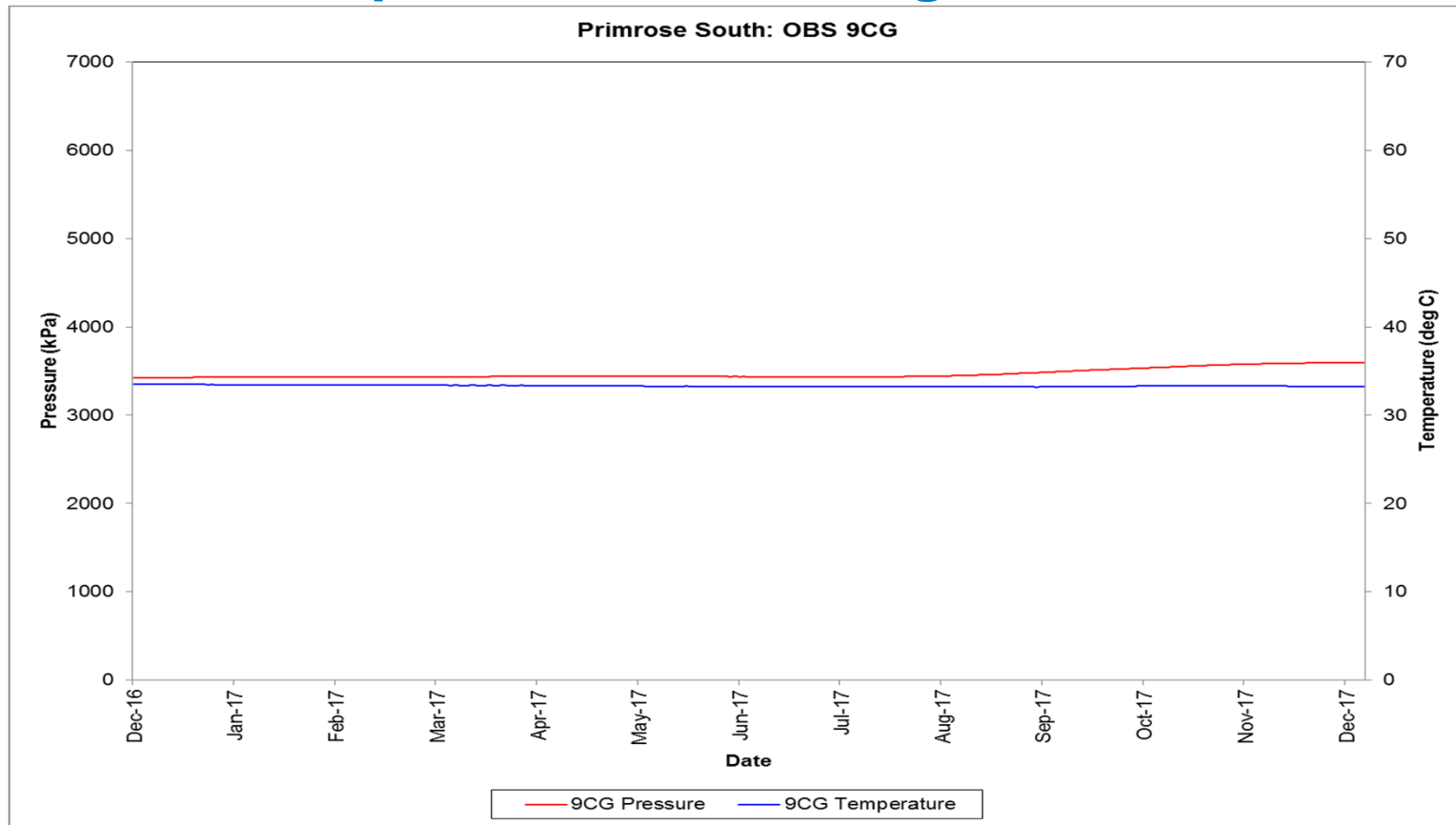
Primrose South Joli Fou

Pressure & Temperature Monitoring – 16-02



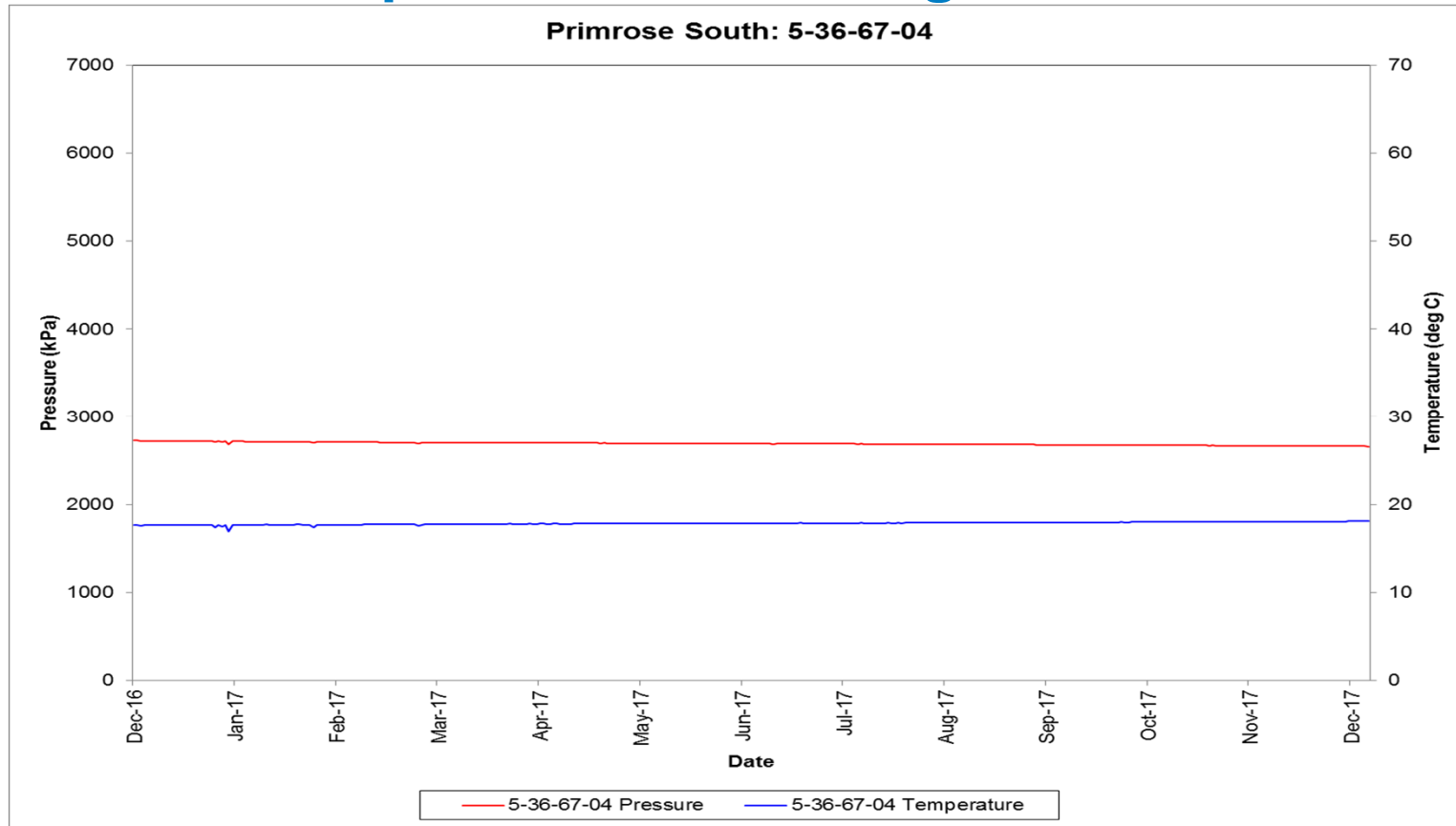
Primrose South B12

Pressure & Temperature Monitoring – 9CG

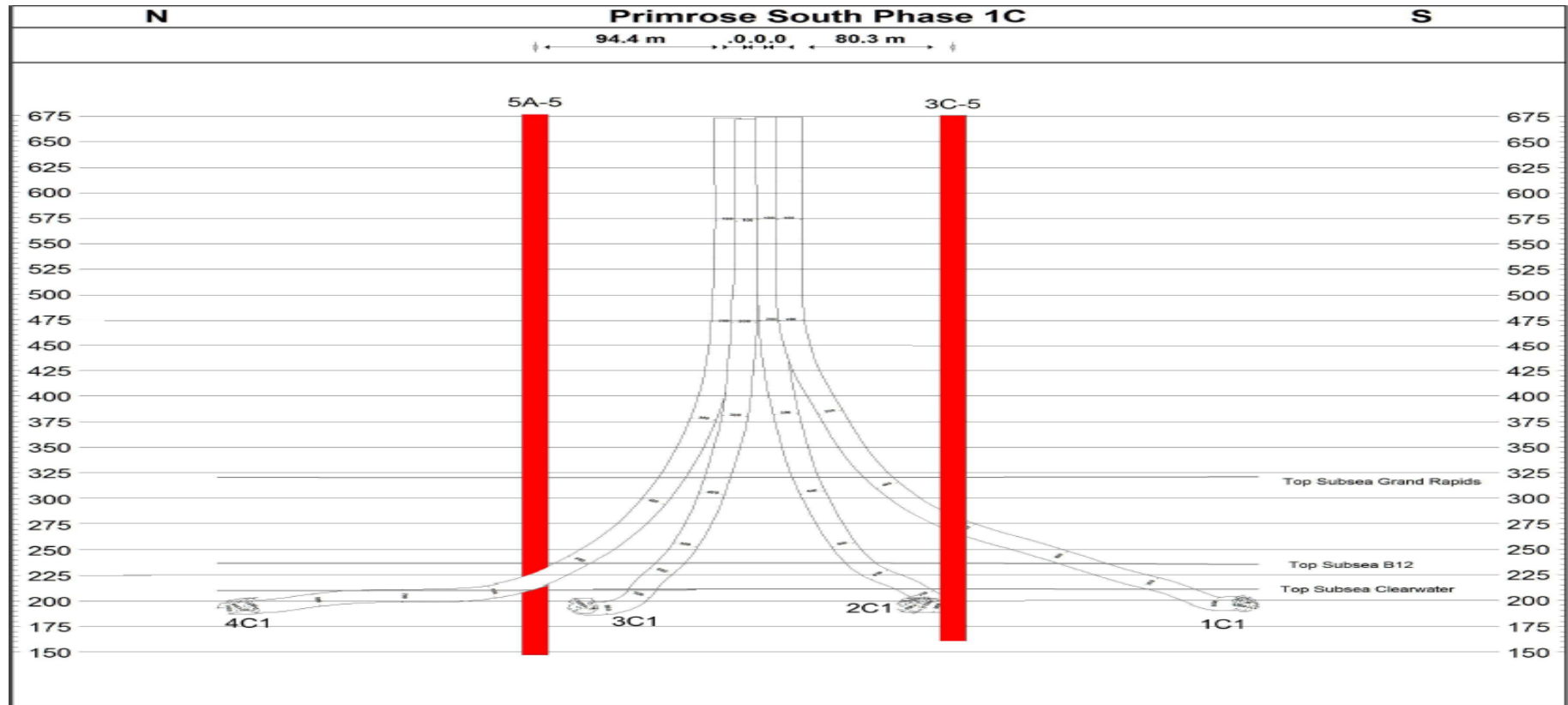


Primrose South B12

Pressure & Temperature Monitoring – 5-36

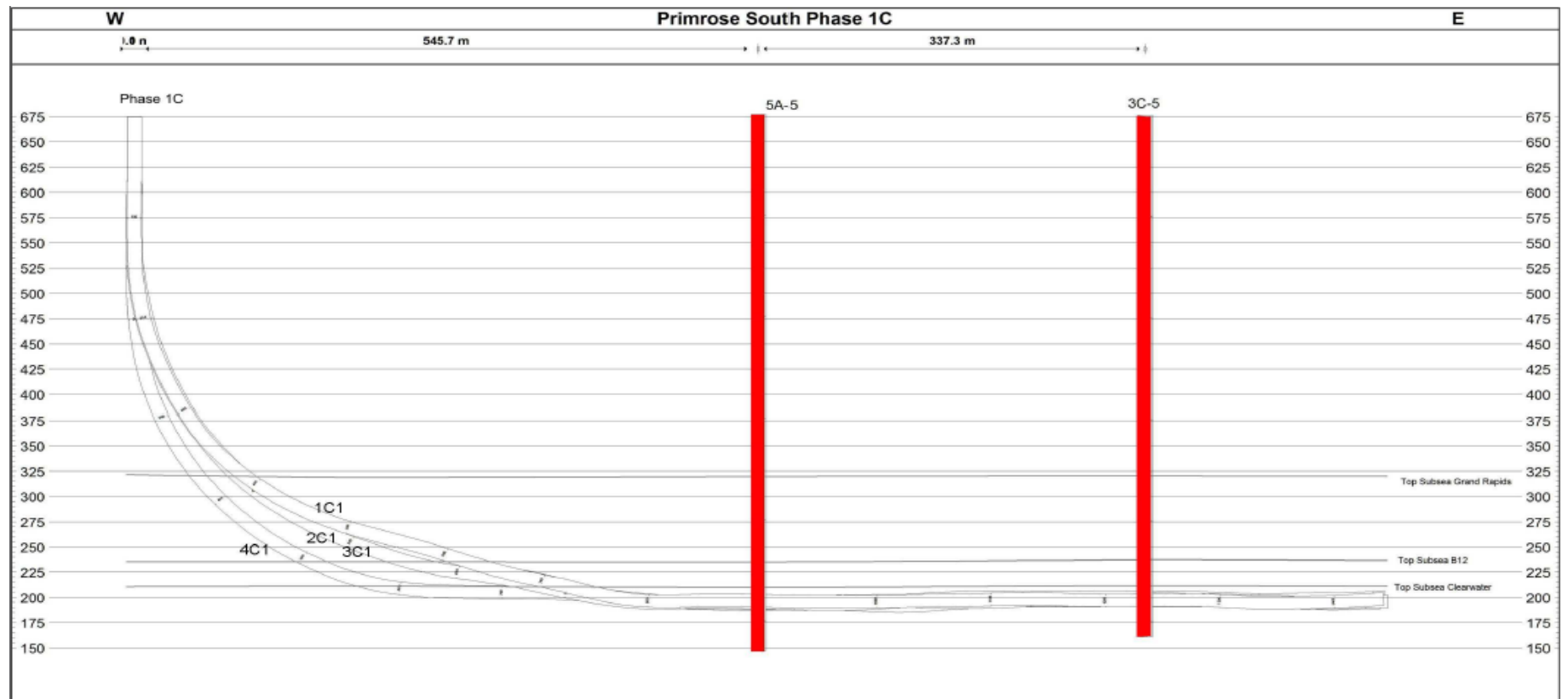


Primrose South Moore Pilot Wells 3C-5 & 5A-5 – North/South



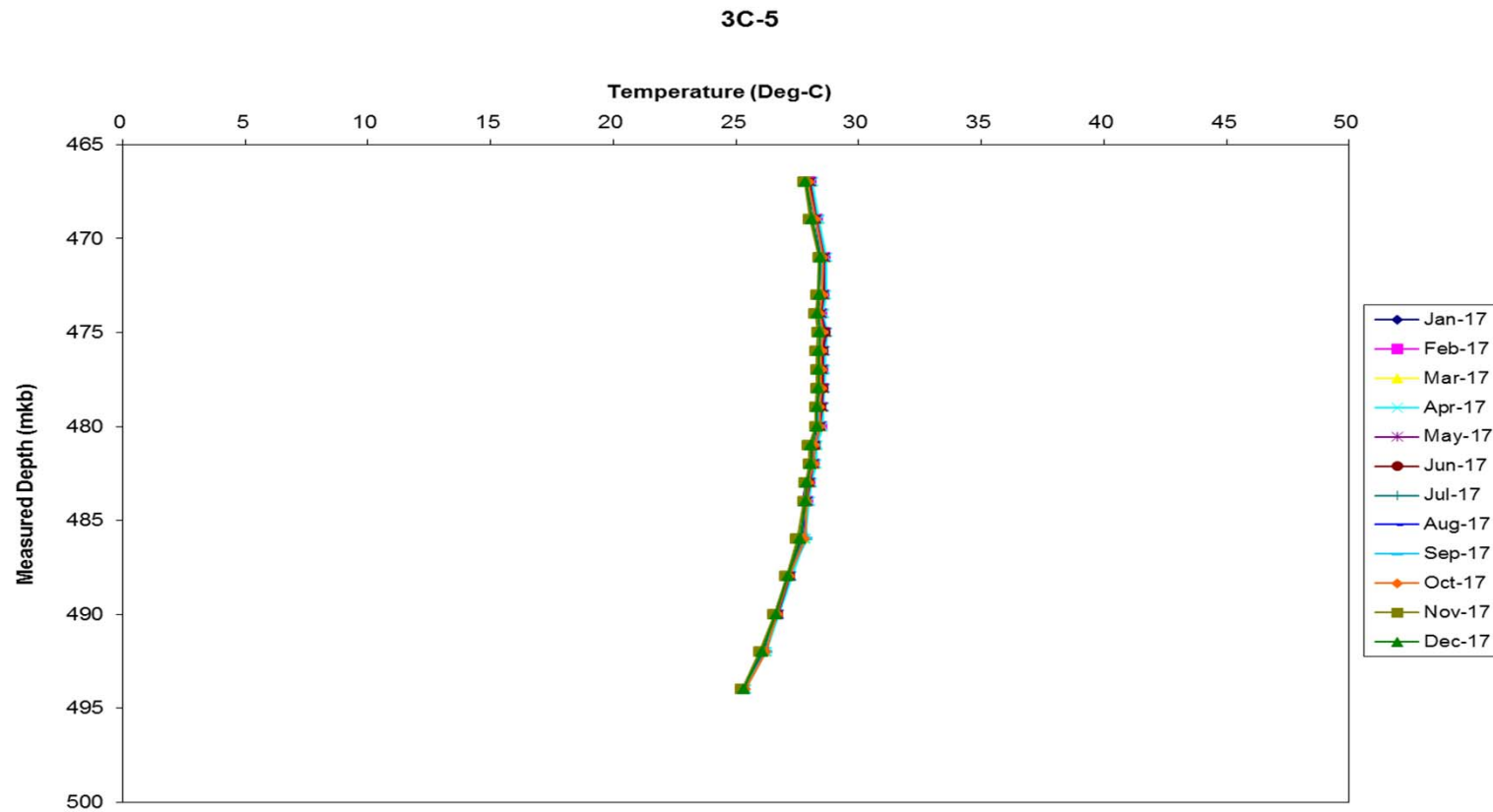
Primrose South Moore Pilot Wells

3C-5 & 5A-5 – West/East



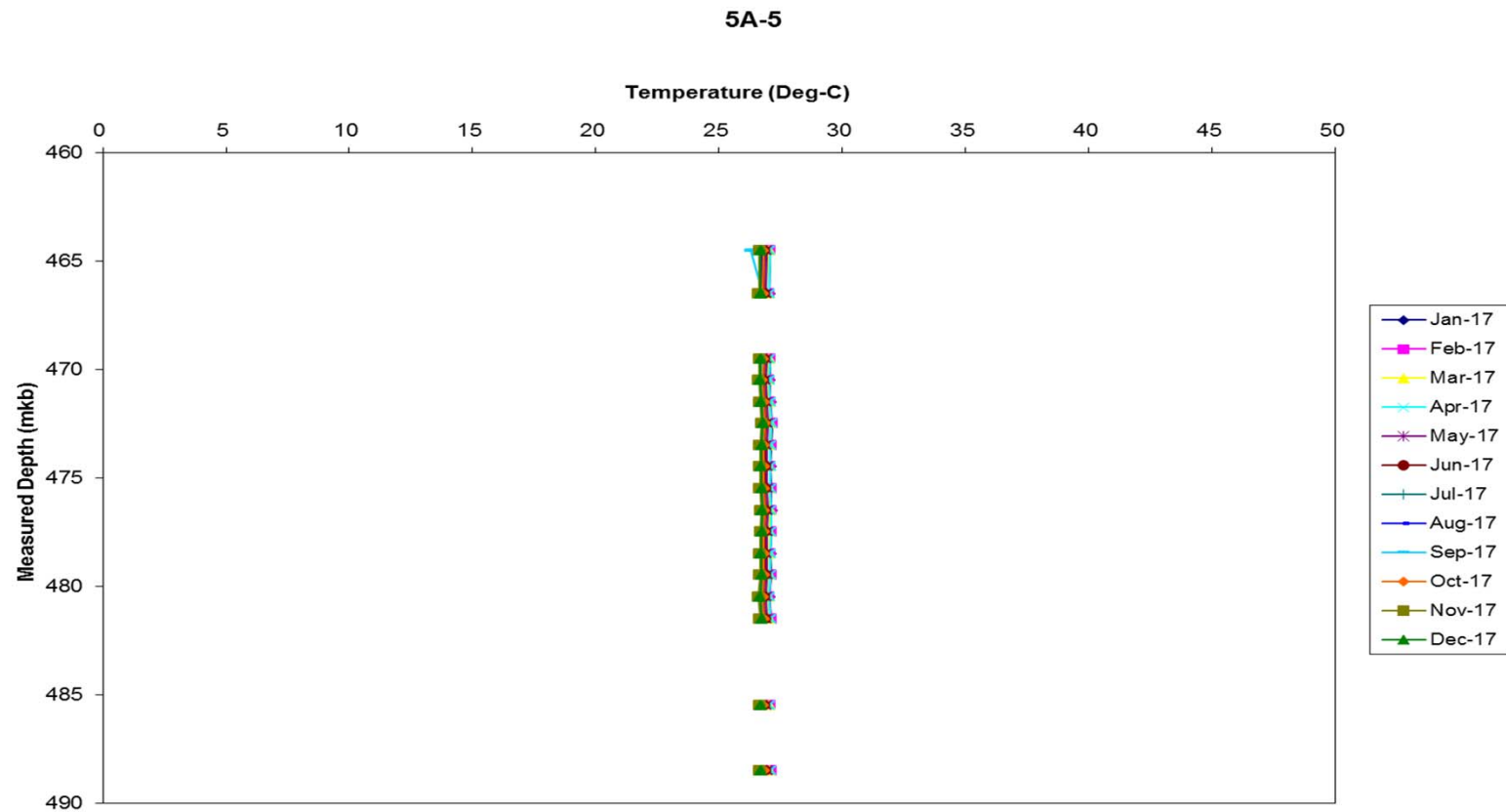
Primrose South Moore Pilot Wells

3C-5 Temperature



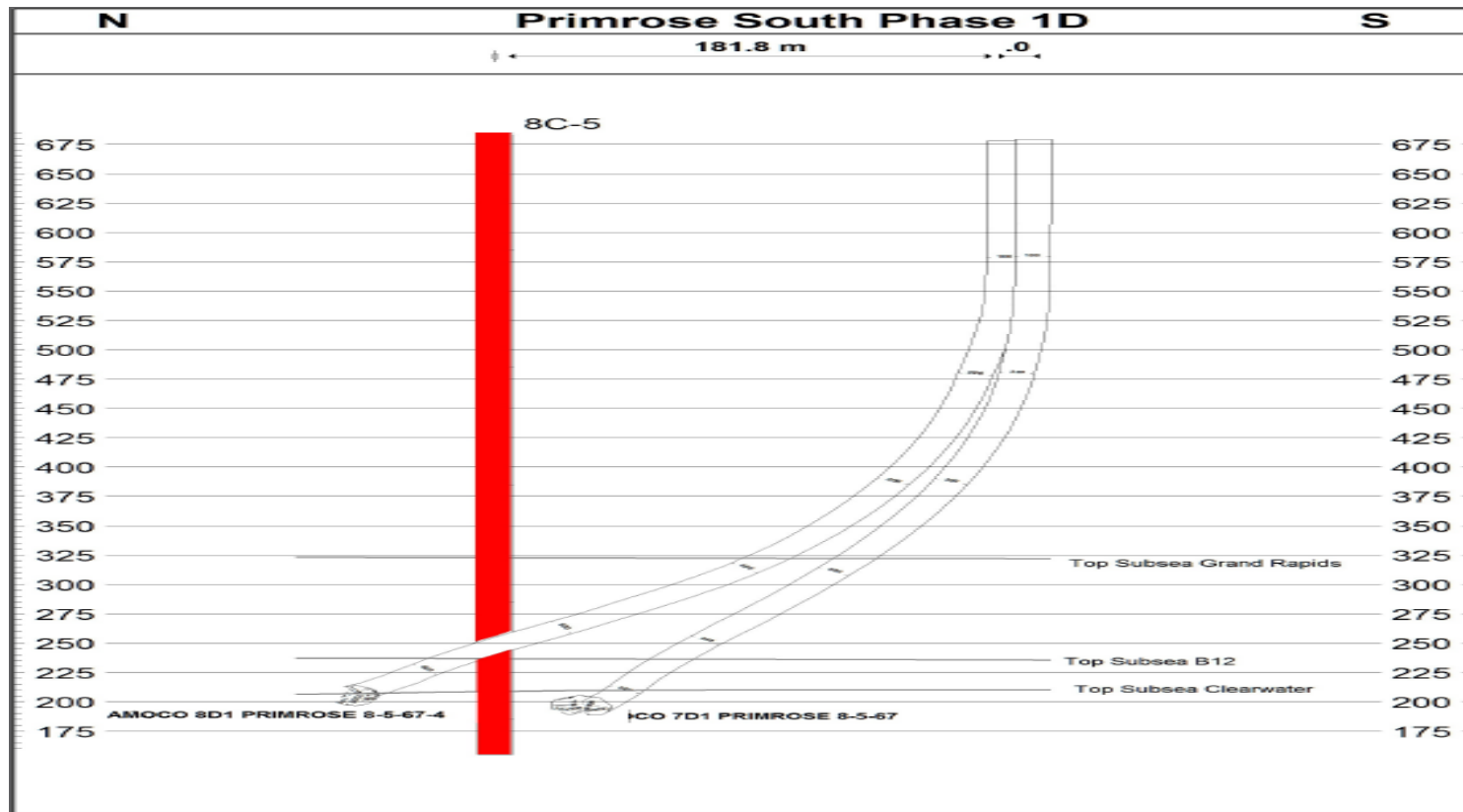
Primrose South Moore Pilot Wells

5A-5 Temperature



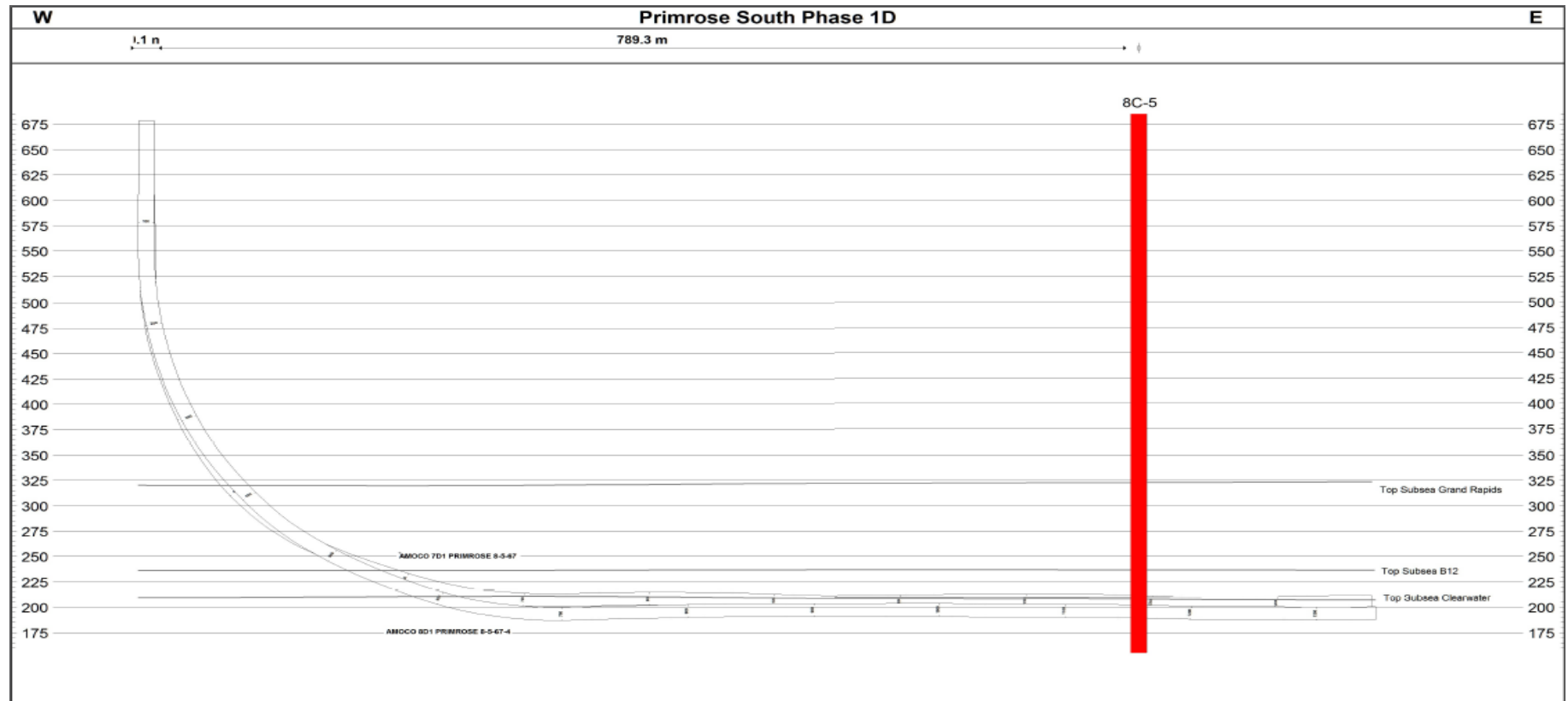
Primrose South Moore Pilot Wells

8C-5 – North/South



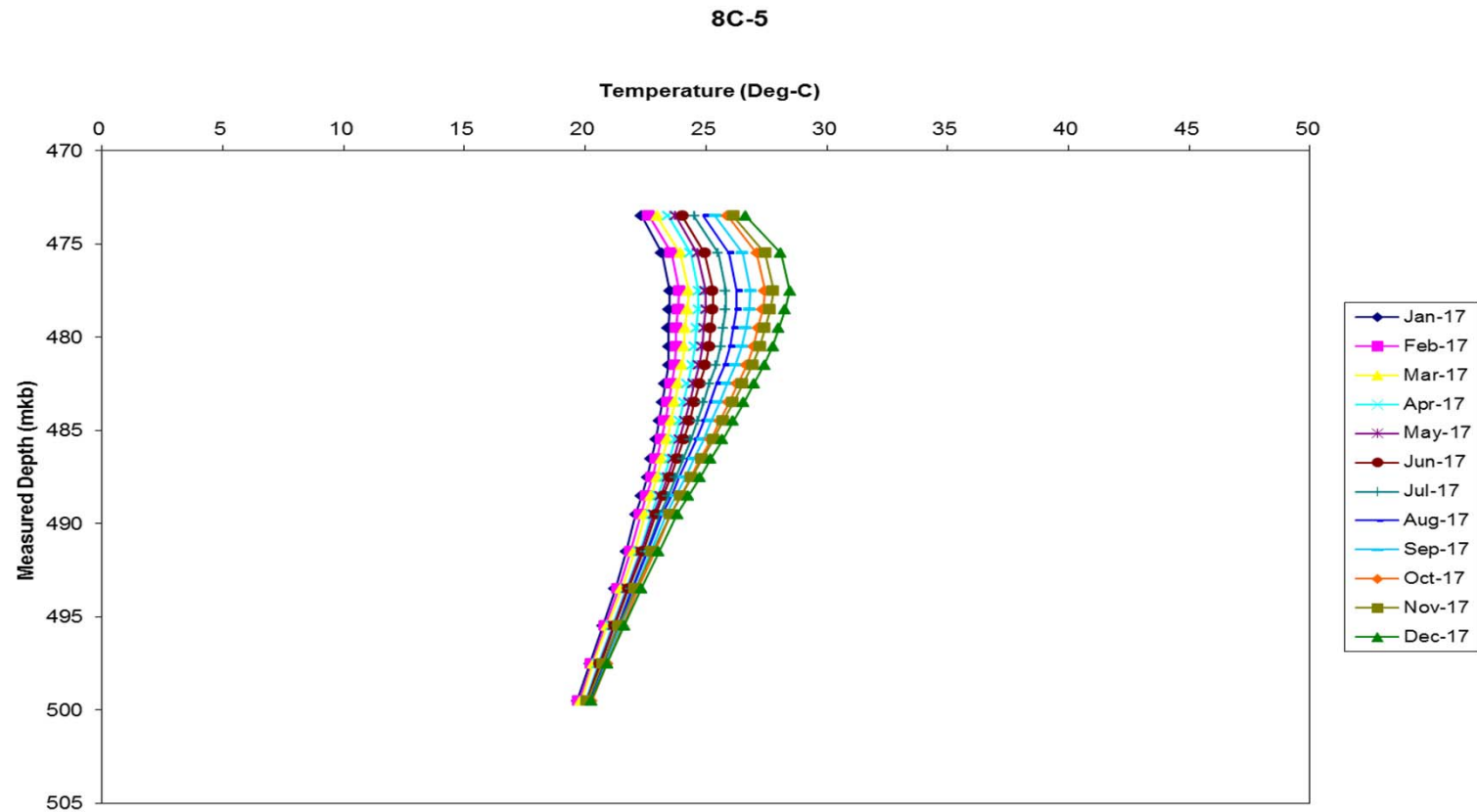
Primrose South Moore Pilot Wells

8C-5 – West/East



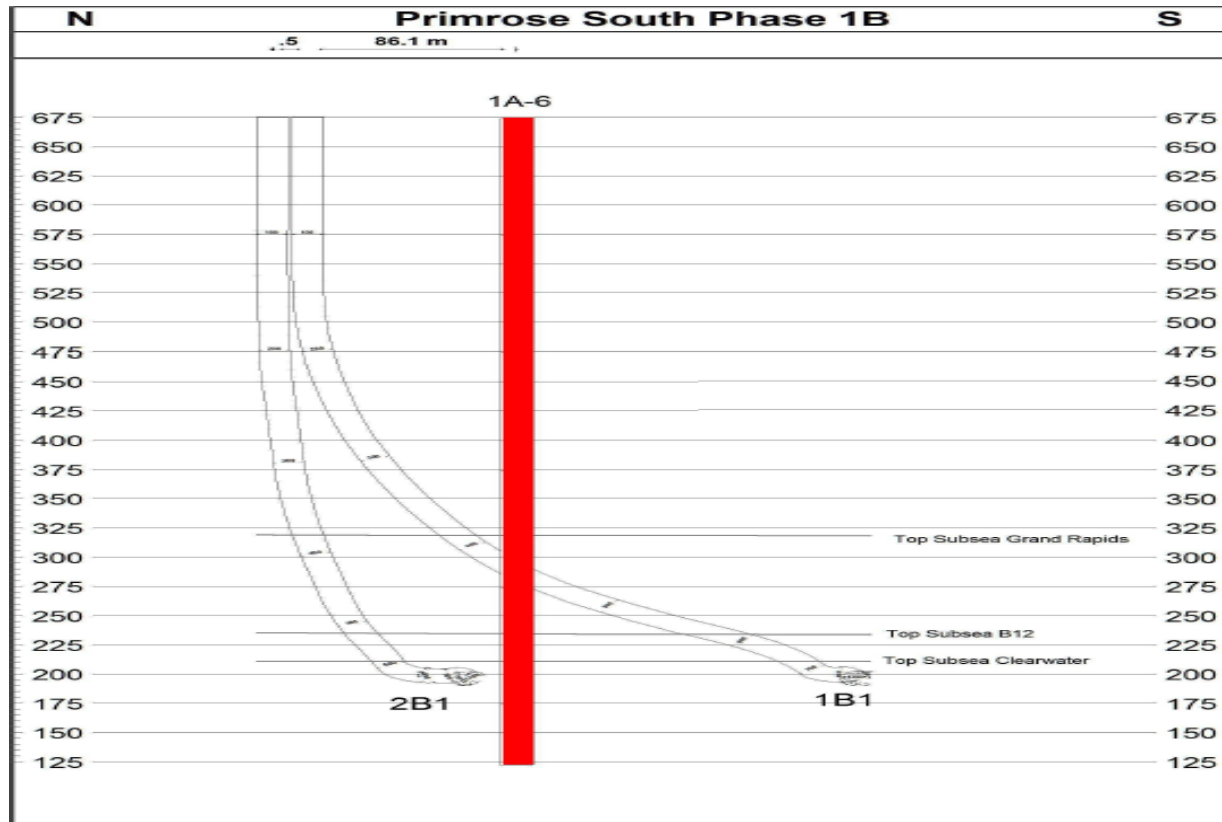
Primrose South Moore Pilot Wells

8C-5 Temperature



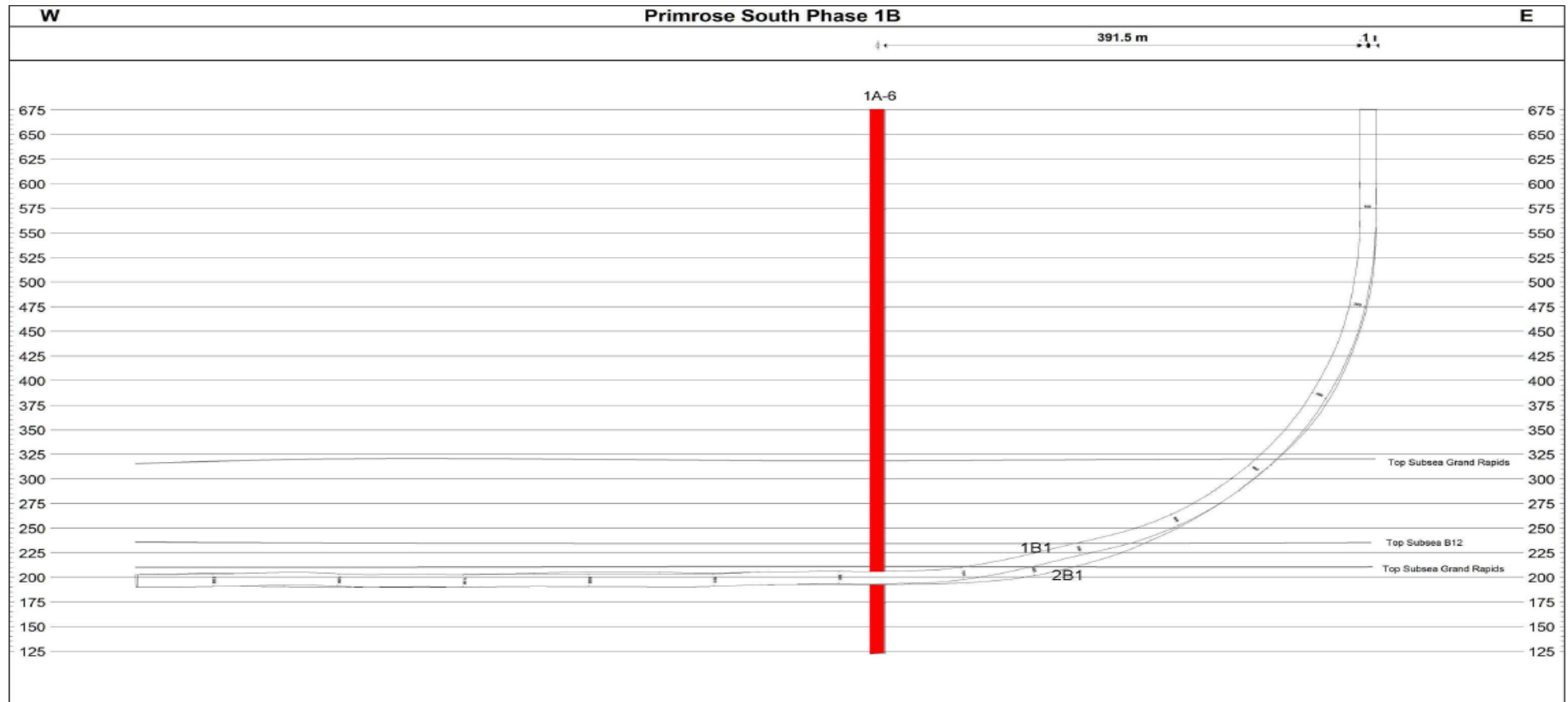
Primrose South Moore Pilot Wells

1A-6 – North/South



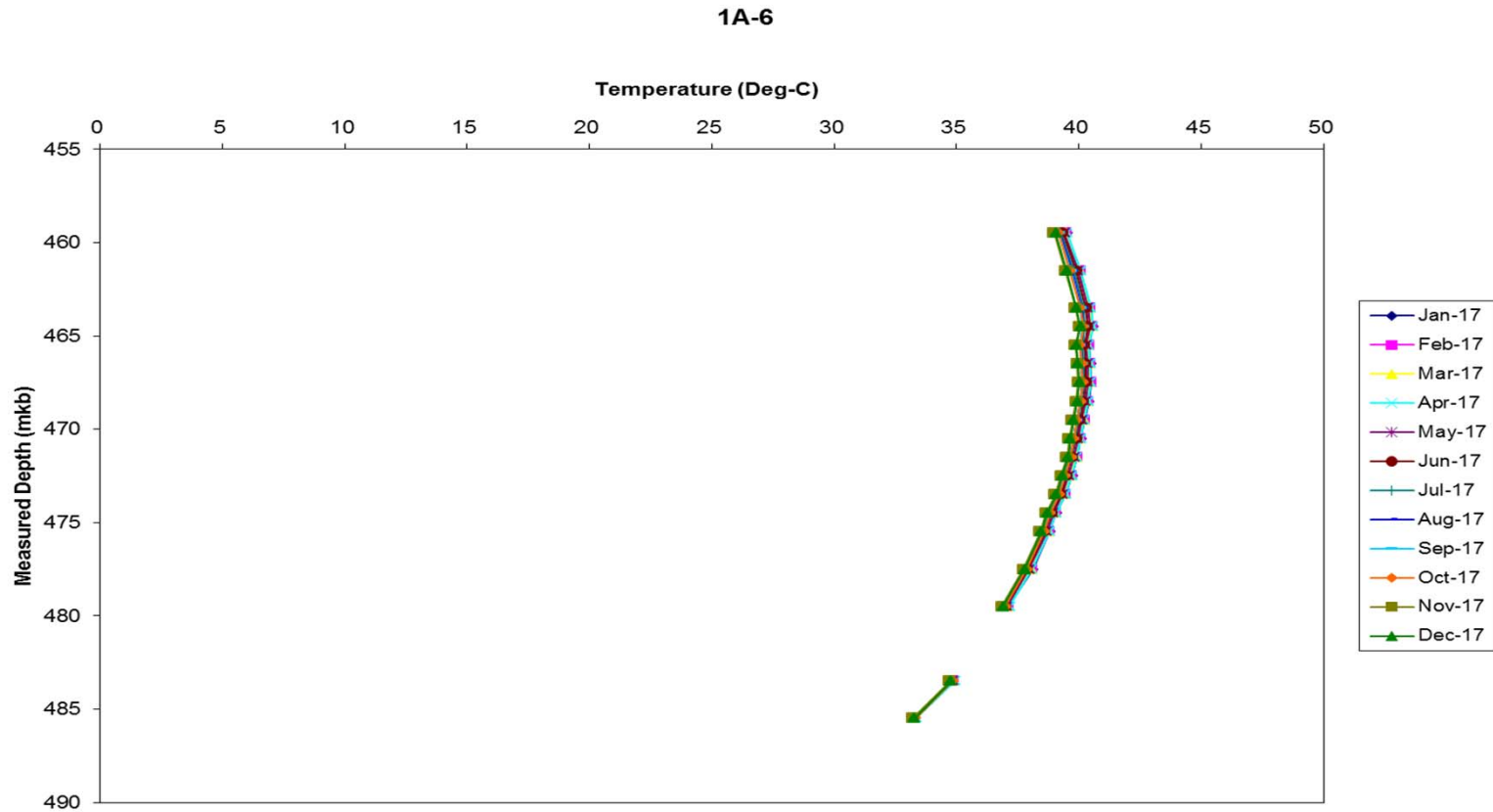
Primrose South Moore Pilot Wells

1A-6 – West/East



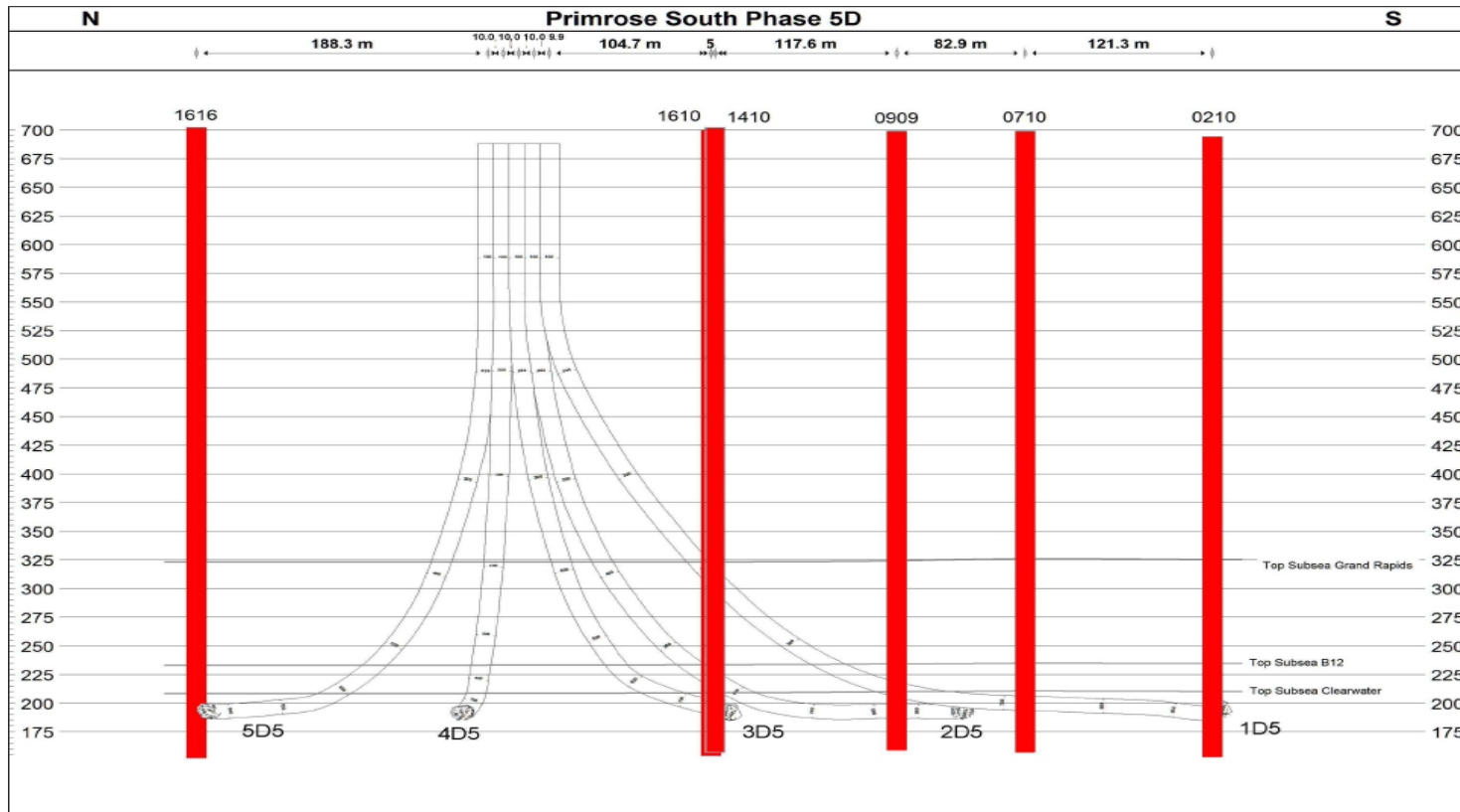
Primrose South Moore Pilot Wells

1A-6



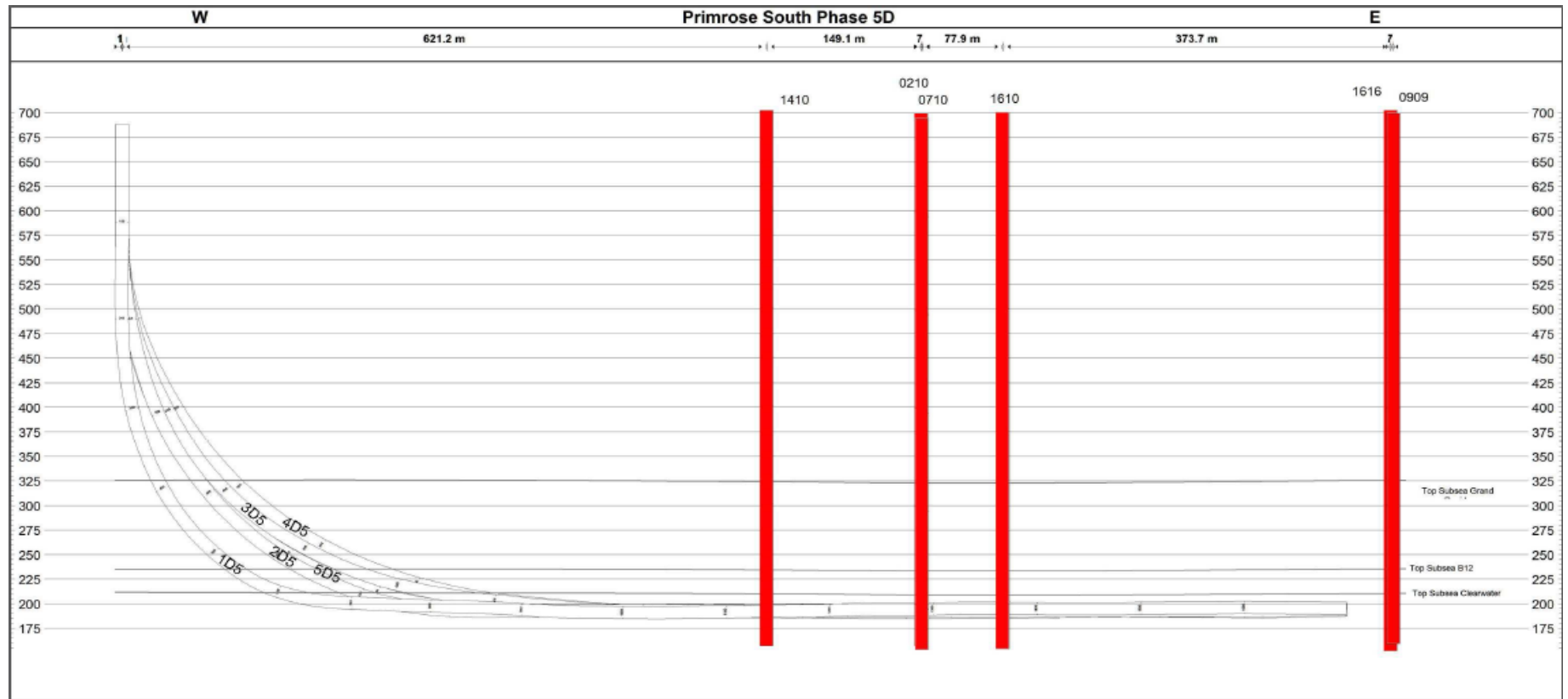
Primrose South Moore Pilot Wells

1616,1610,1410,0909,0710,0210 – North/South



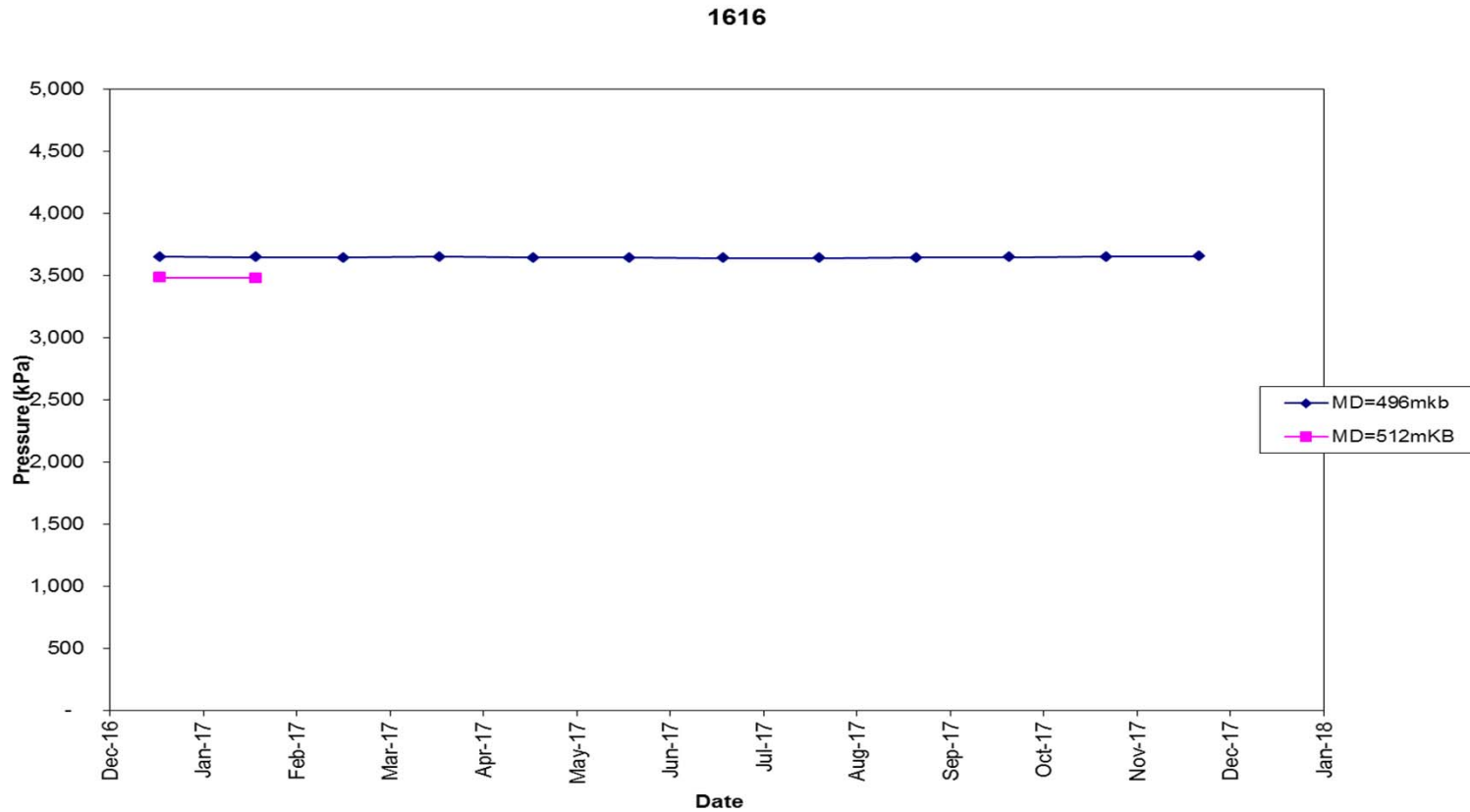
Primrose South Moore Pilot Wells

1616,1610,1410,0909,0710,0210 – West/East



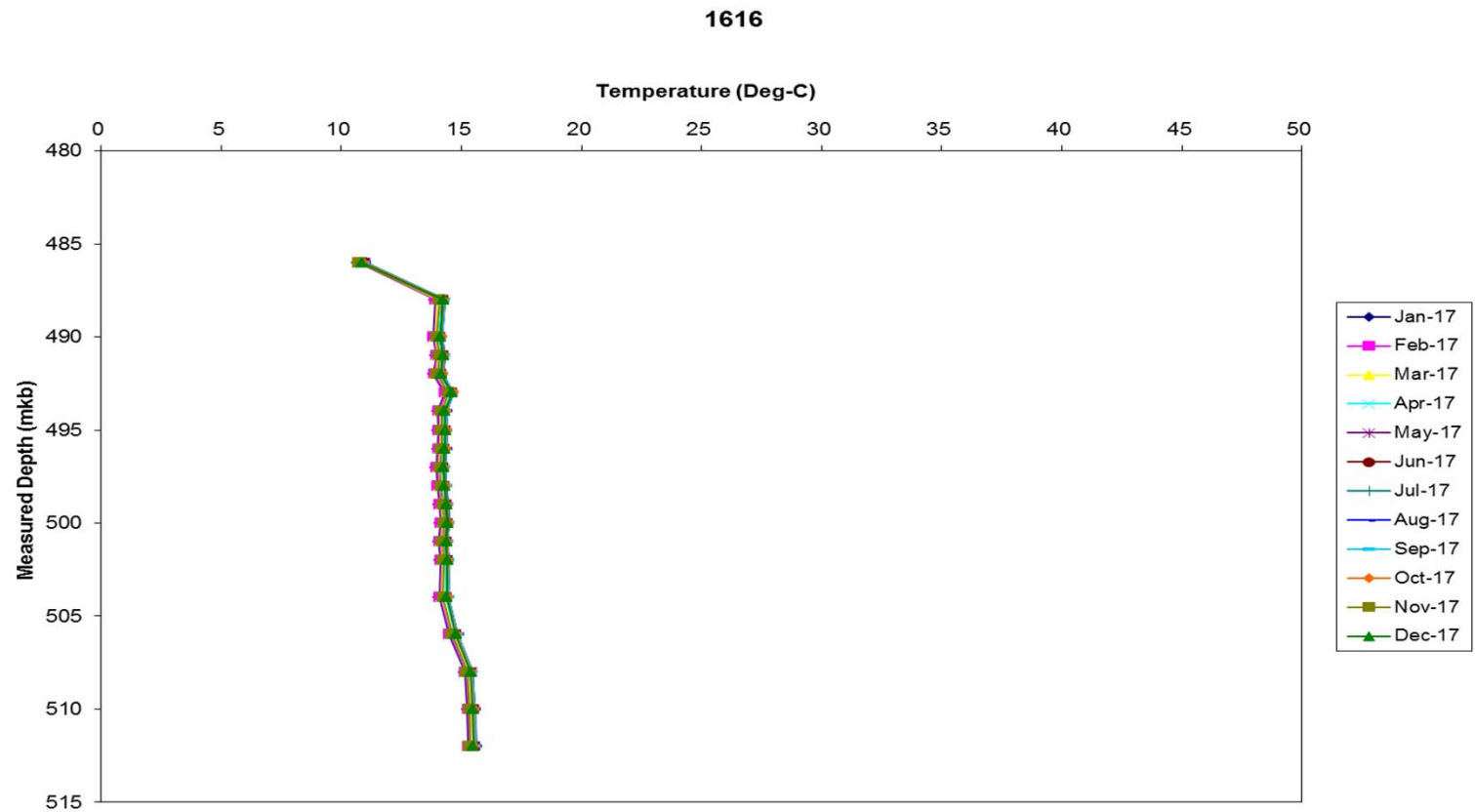
Primrose South Moore Pilot Wells

1616 Pressure



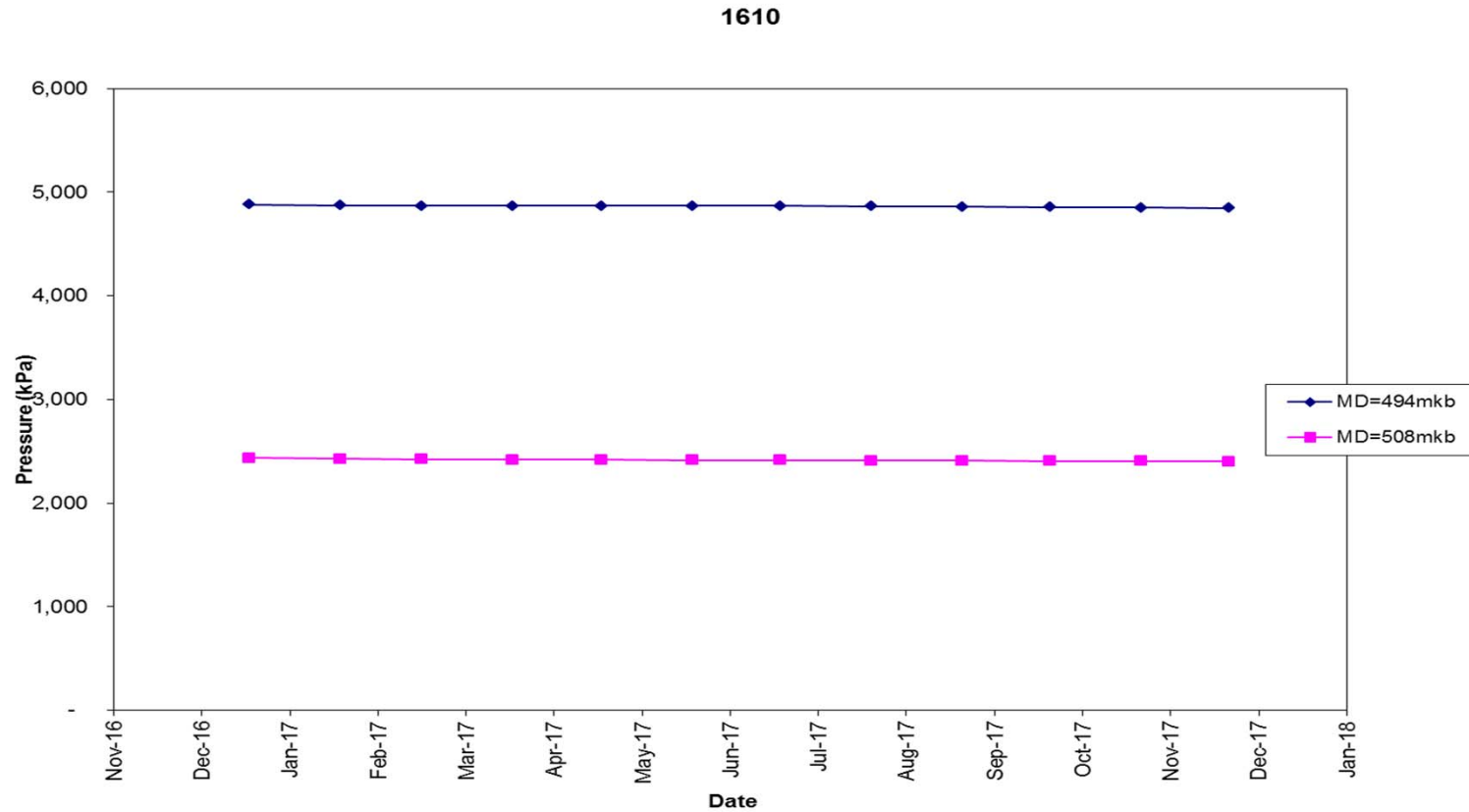
Primrose South Moore Pilot Wells

1616 Temperature



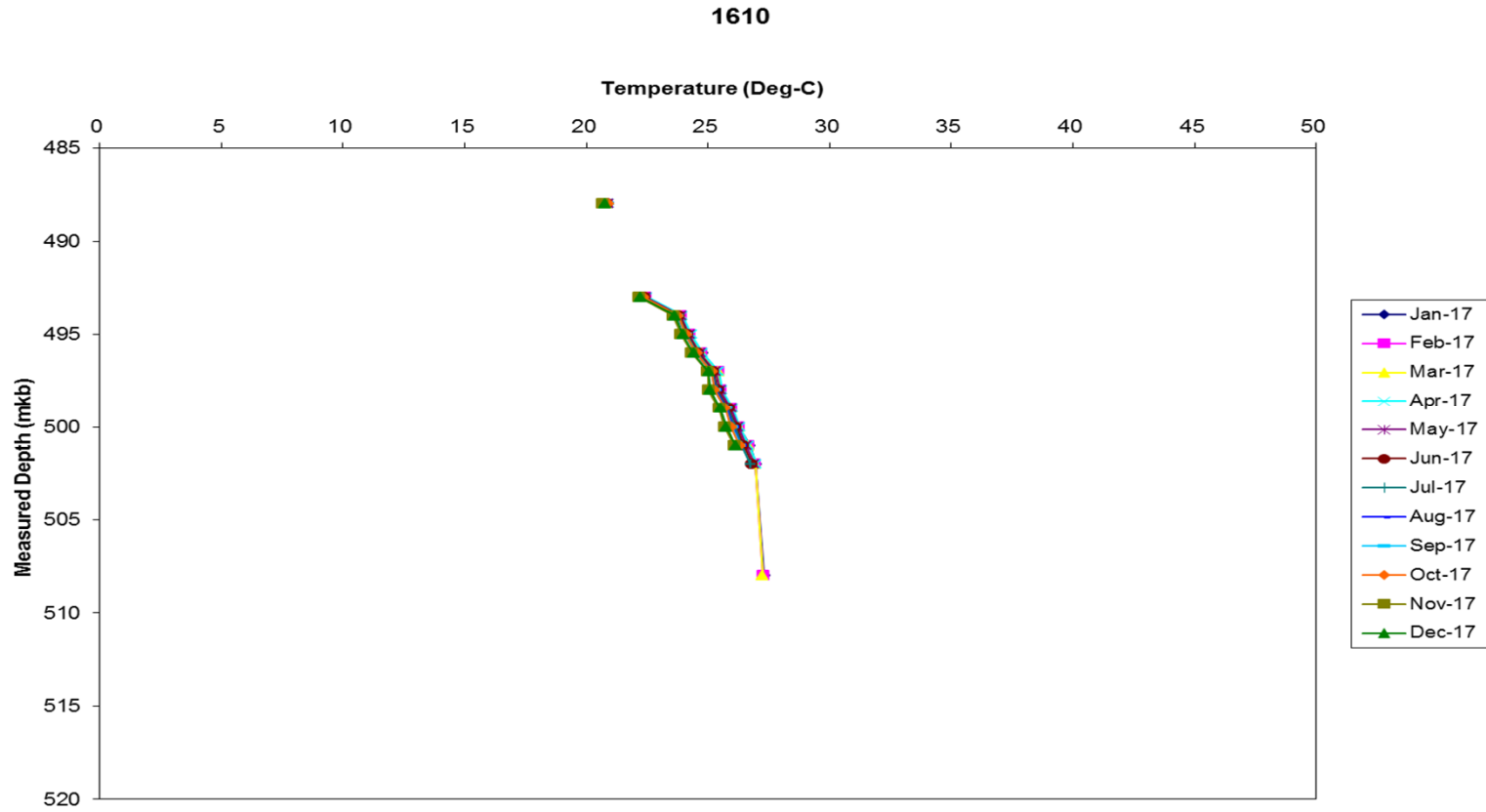
Primrose South Moore Pilot Wells

1610 Pressure



Primrose South Moore Pilot Wells

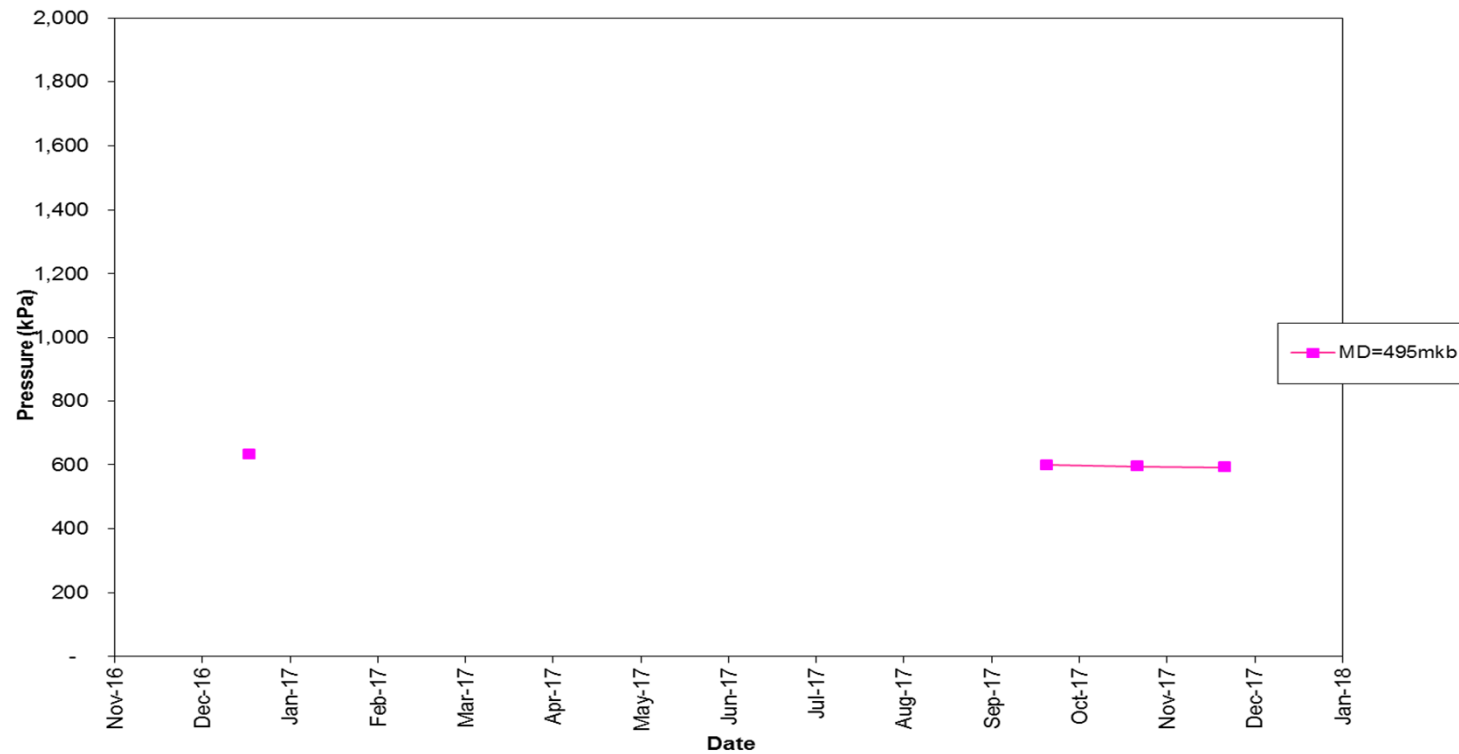
1610 Temperature



Primrose South Moore Pilot Wells

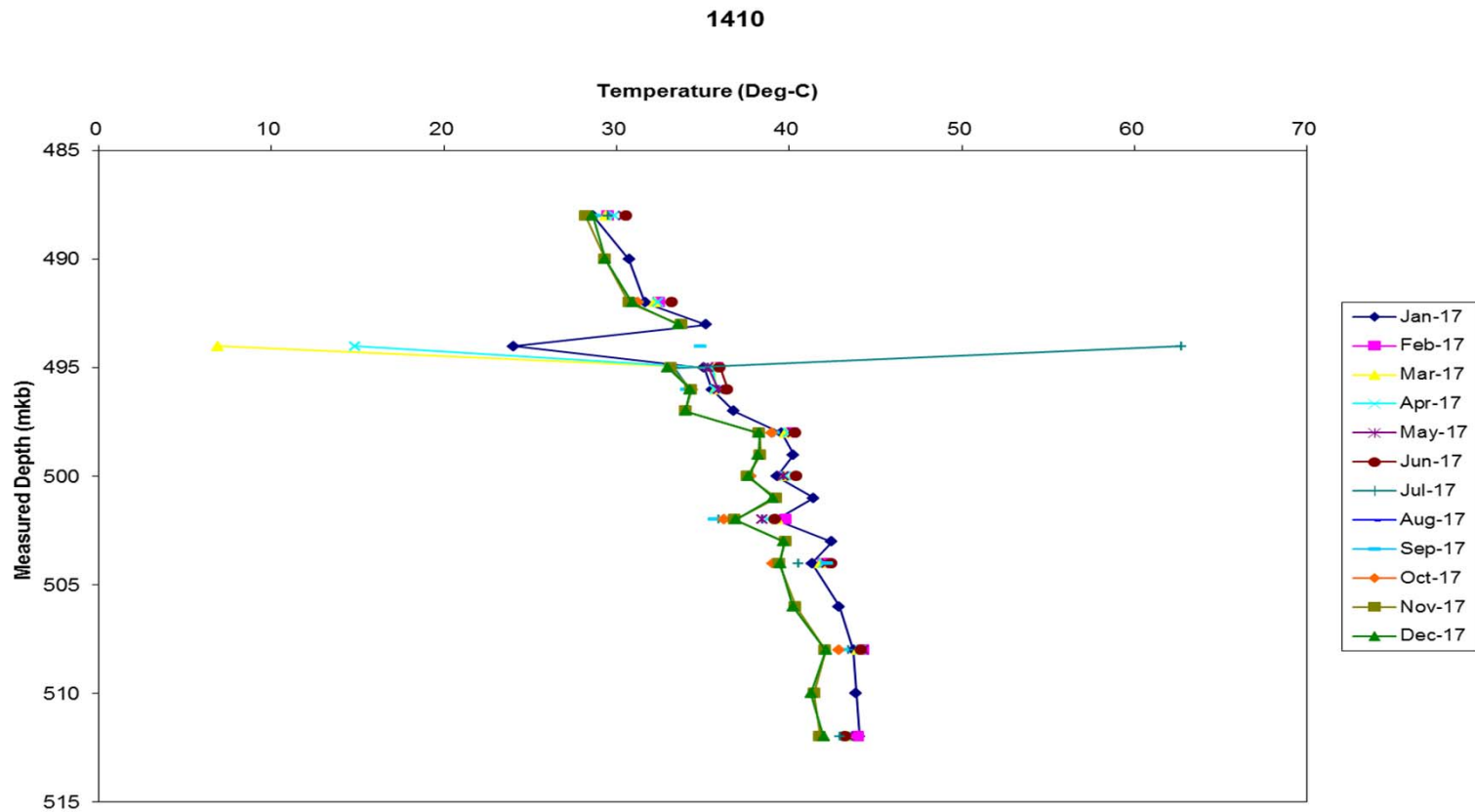
1410 Pressure

1410



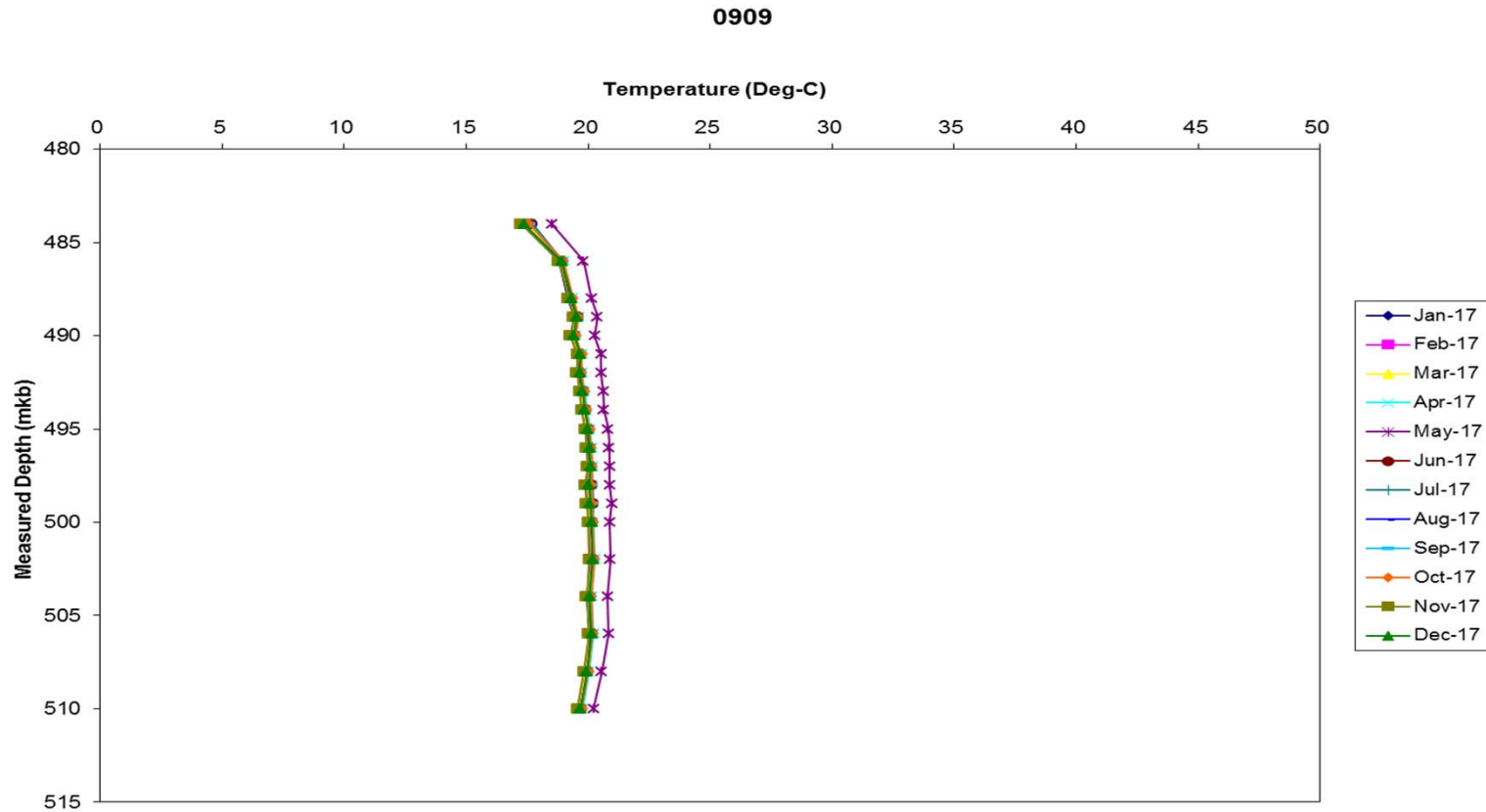
Primrose South Moore Pilot Wells

1410 Temperature



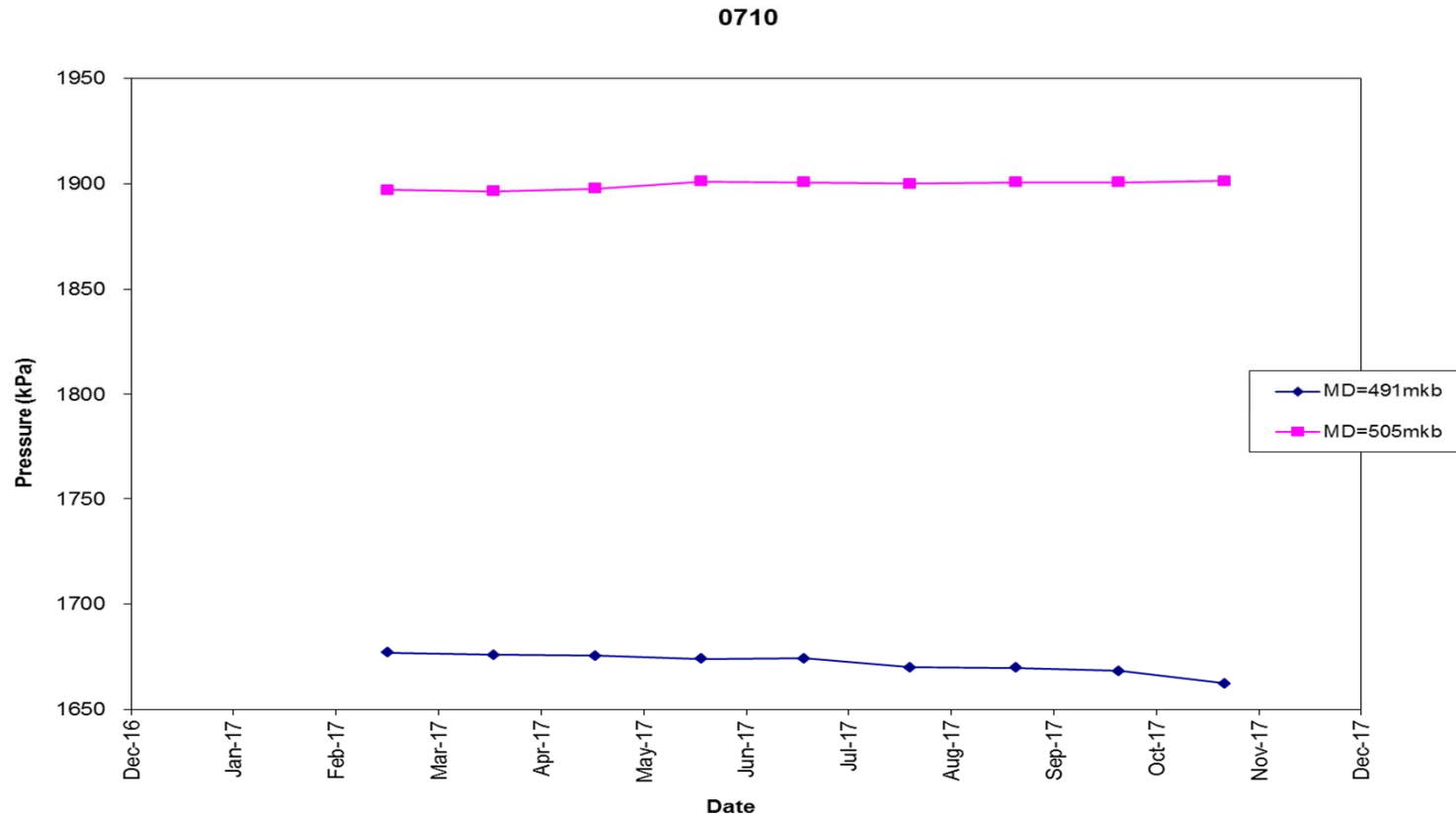
Primrose South Moore Pilot Wells

0909 Temperature



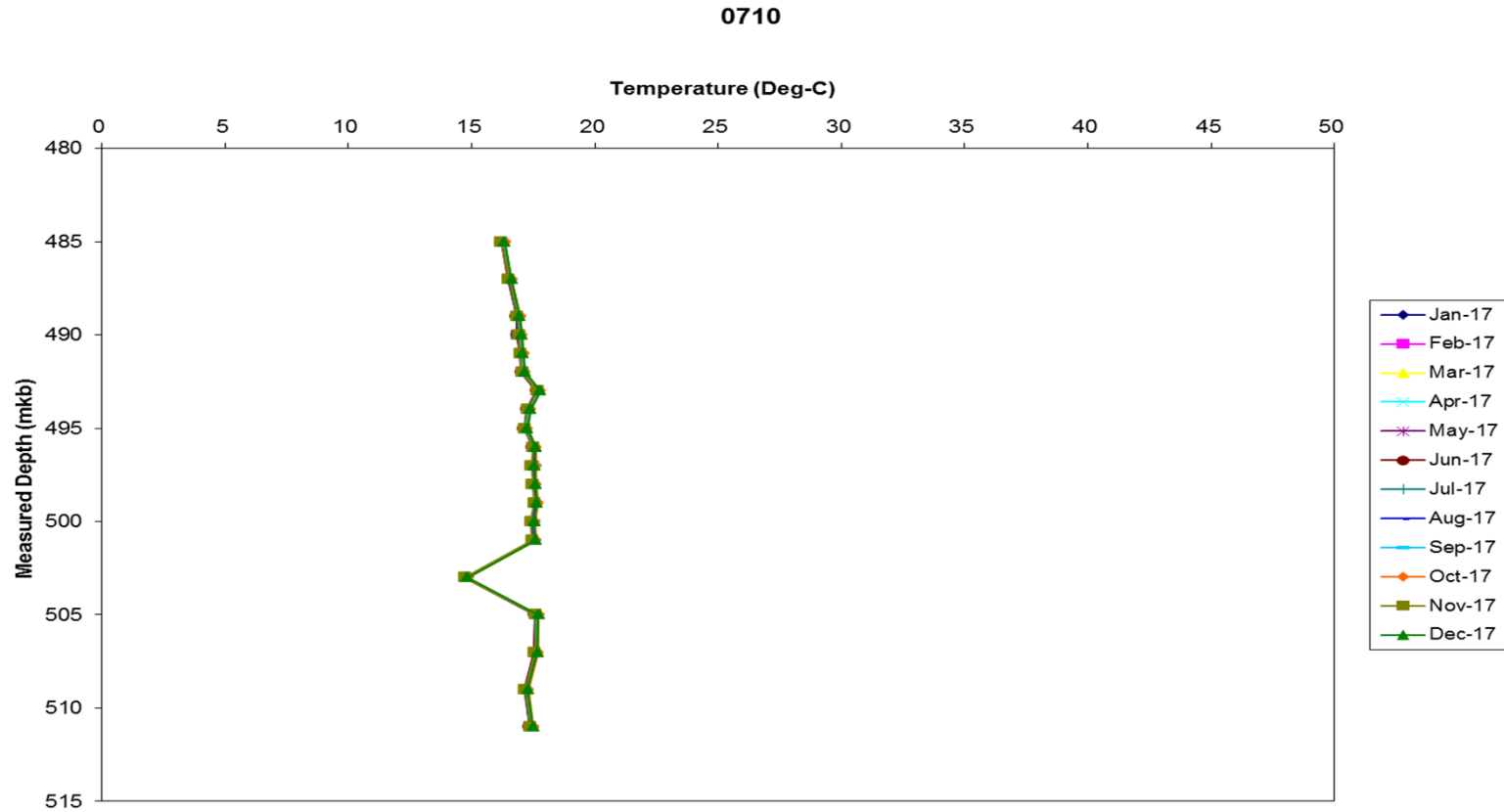
Primrose South Moore Pilot Wells

0710 Pressure



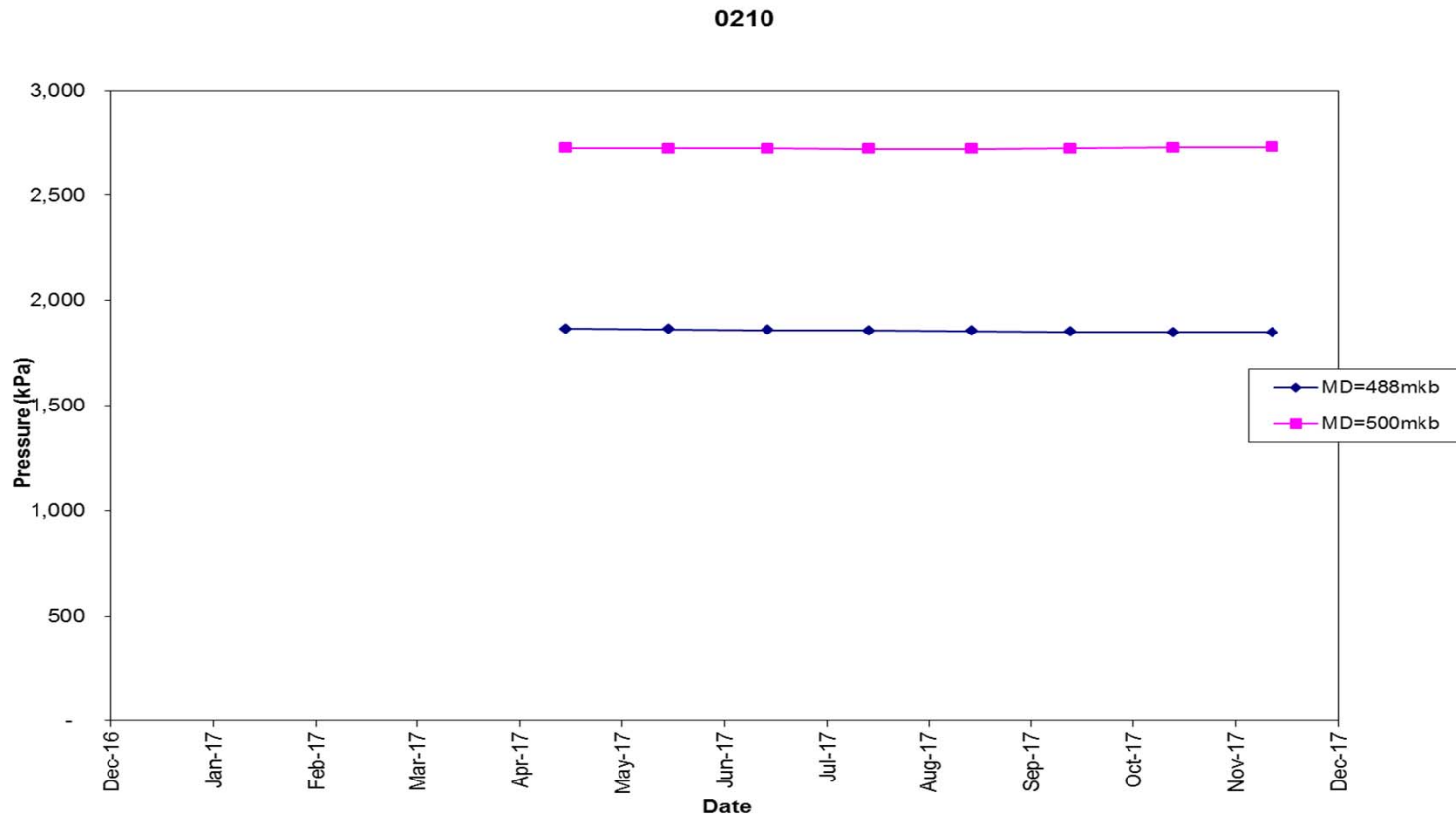
Primrose South Moore Pilot Wells

0710 Temperature



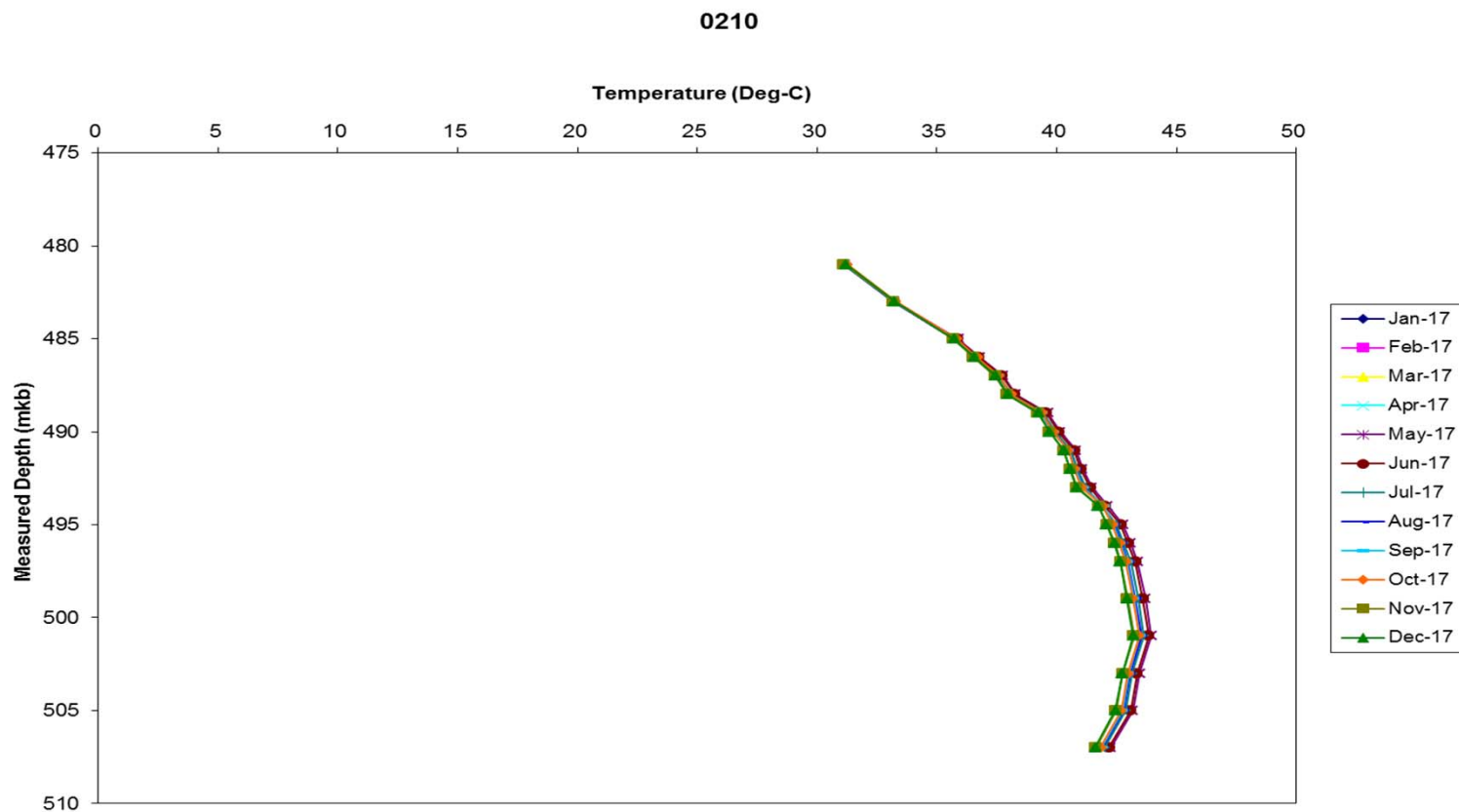
Primrose South Moore Pilot Wells

0210 Pressure



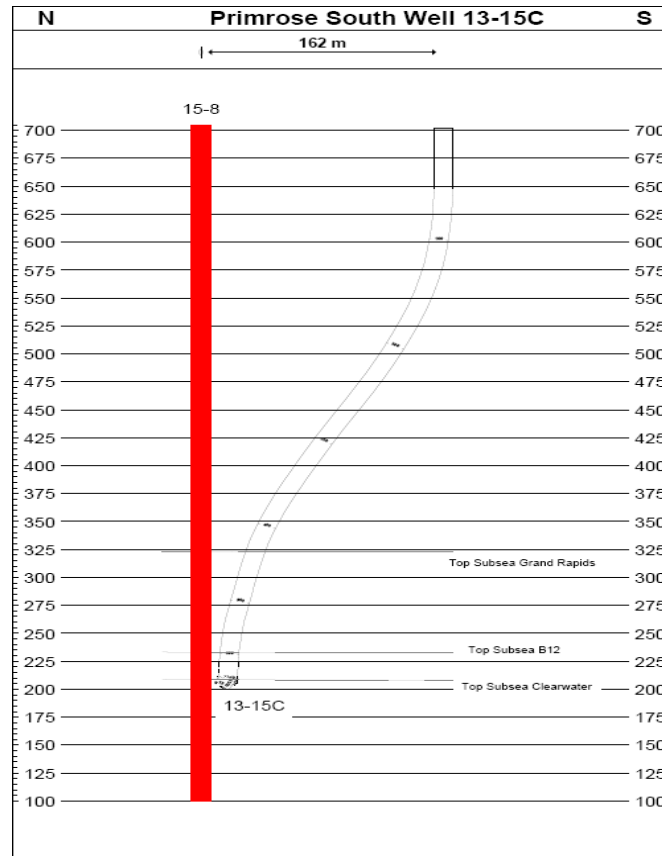
Primrose South Moore Pilot Wells

0210 Temperature



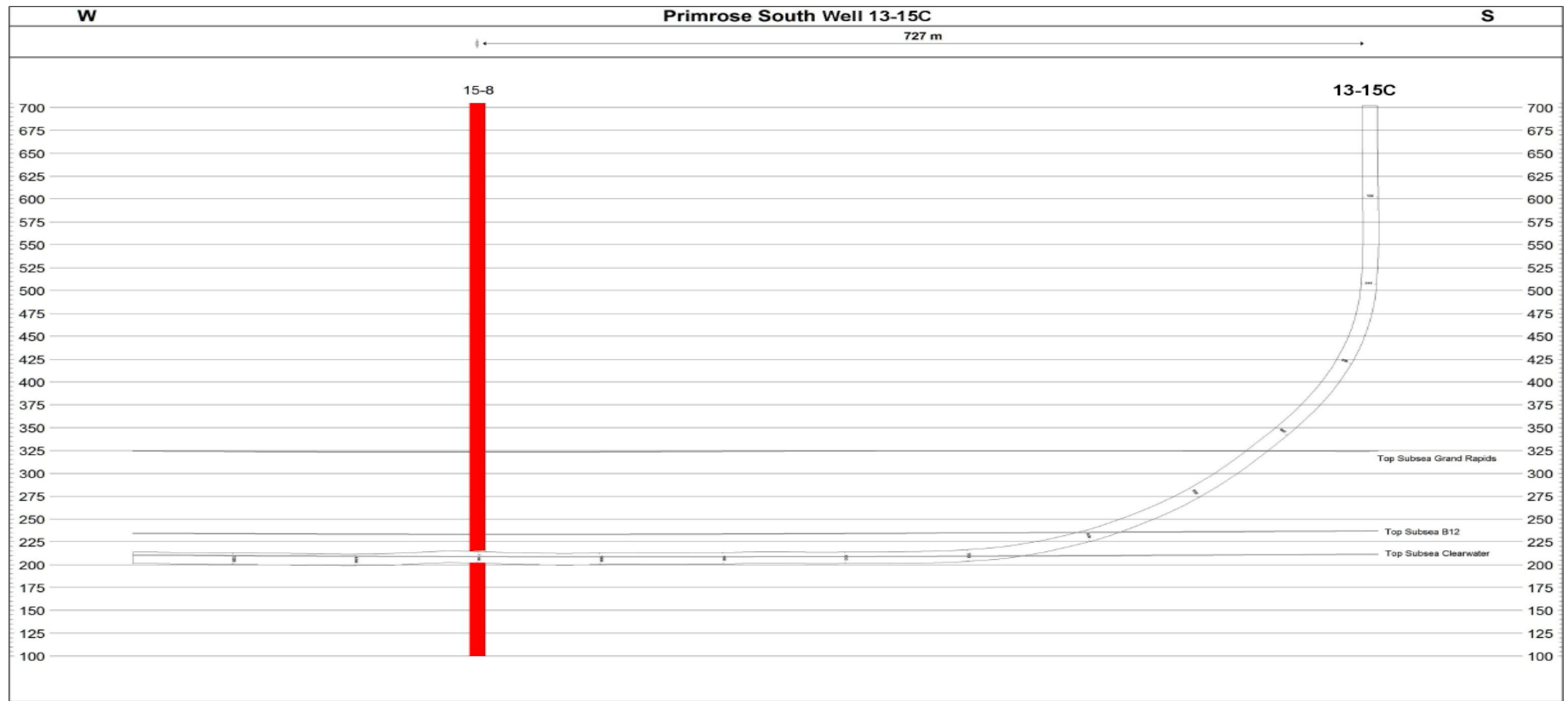
Primrose South Moore Pilot Wells

15-8 – North/South



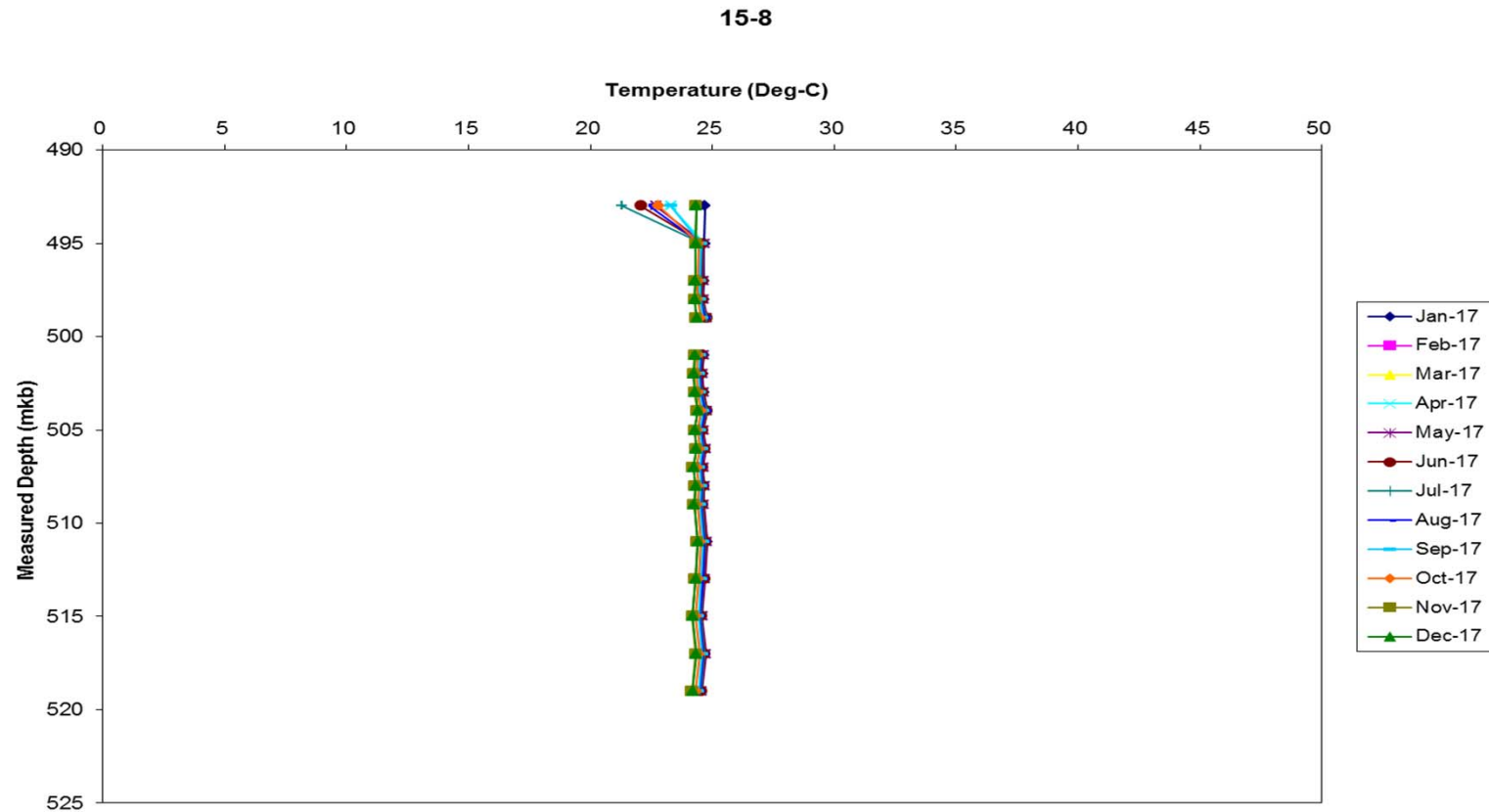
Primrose South Moore Pilot Wells

15-8 – West/East



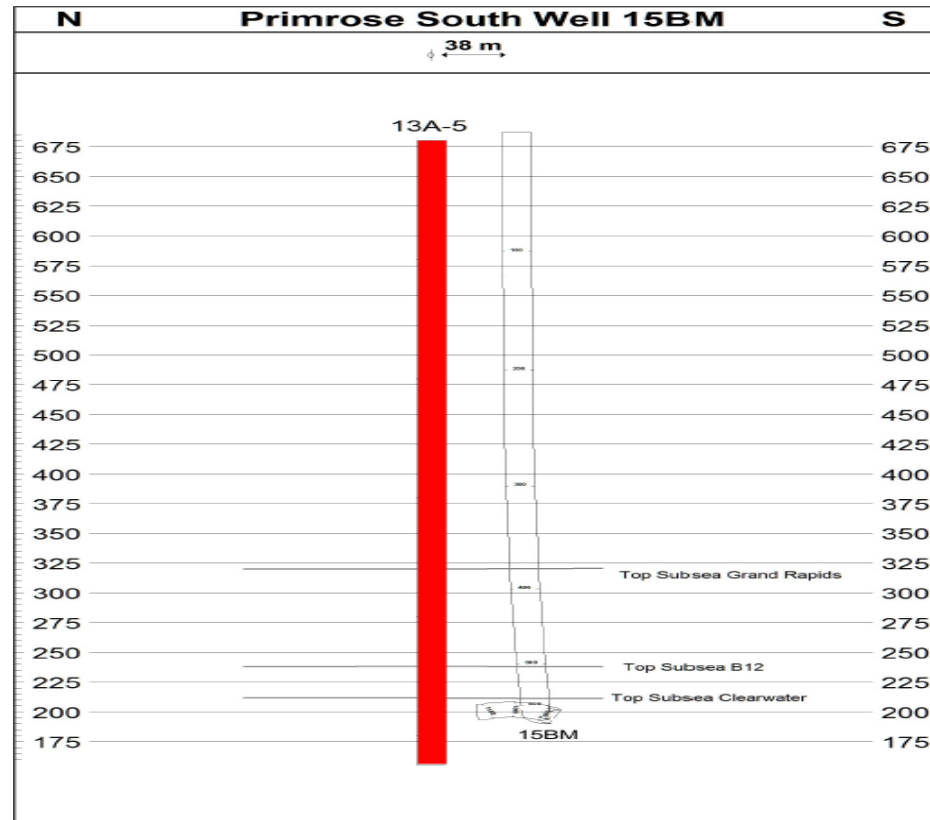
Primrose South Moore Pilot Wells

15-8 Temperature



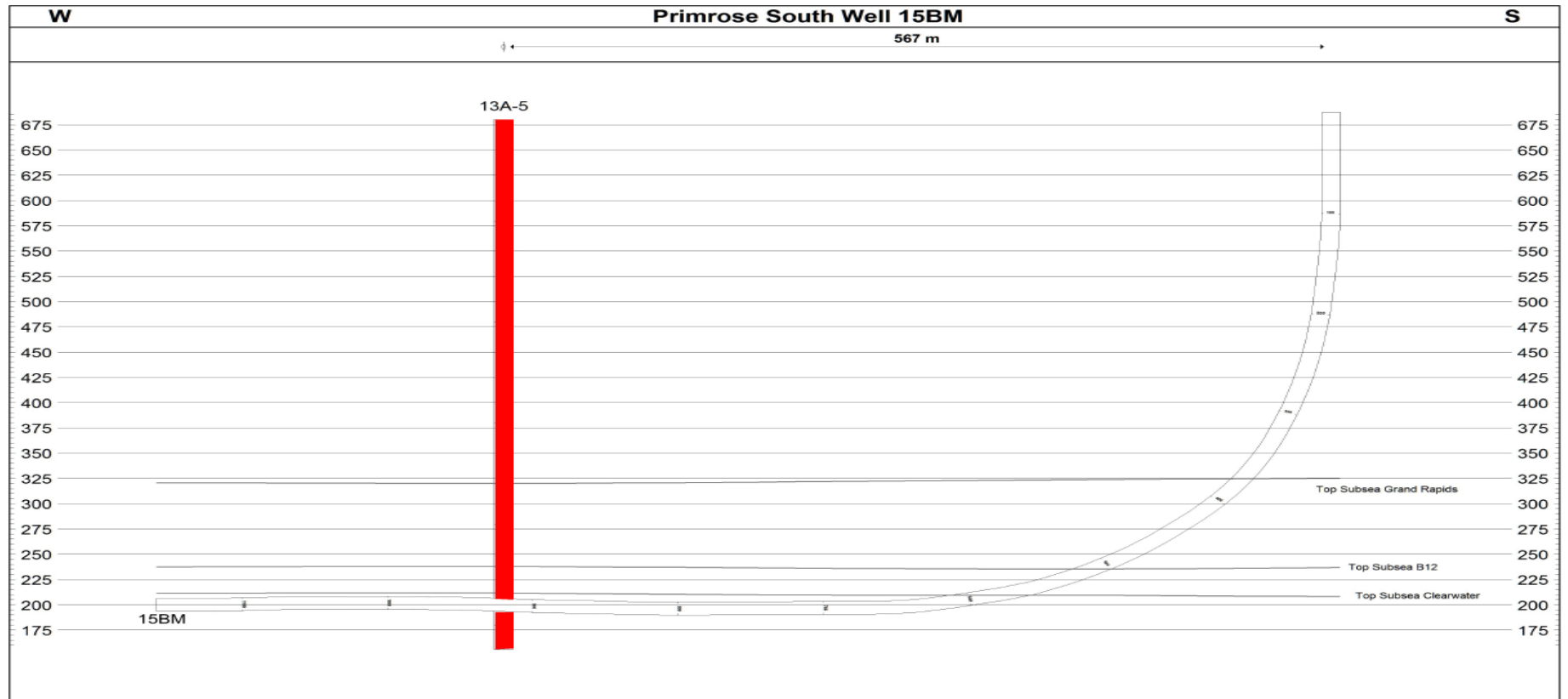
Primrose South Moore Pilot Wells

13A-5 – North/South



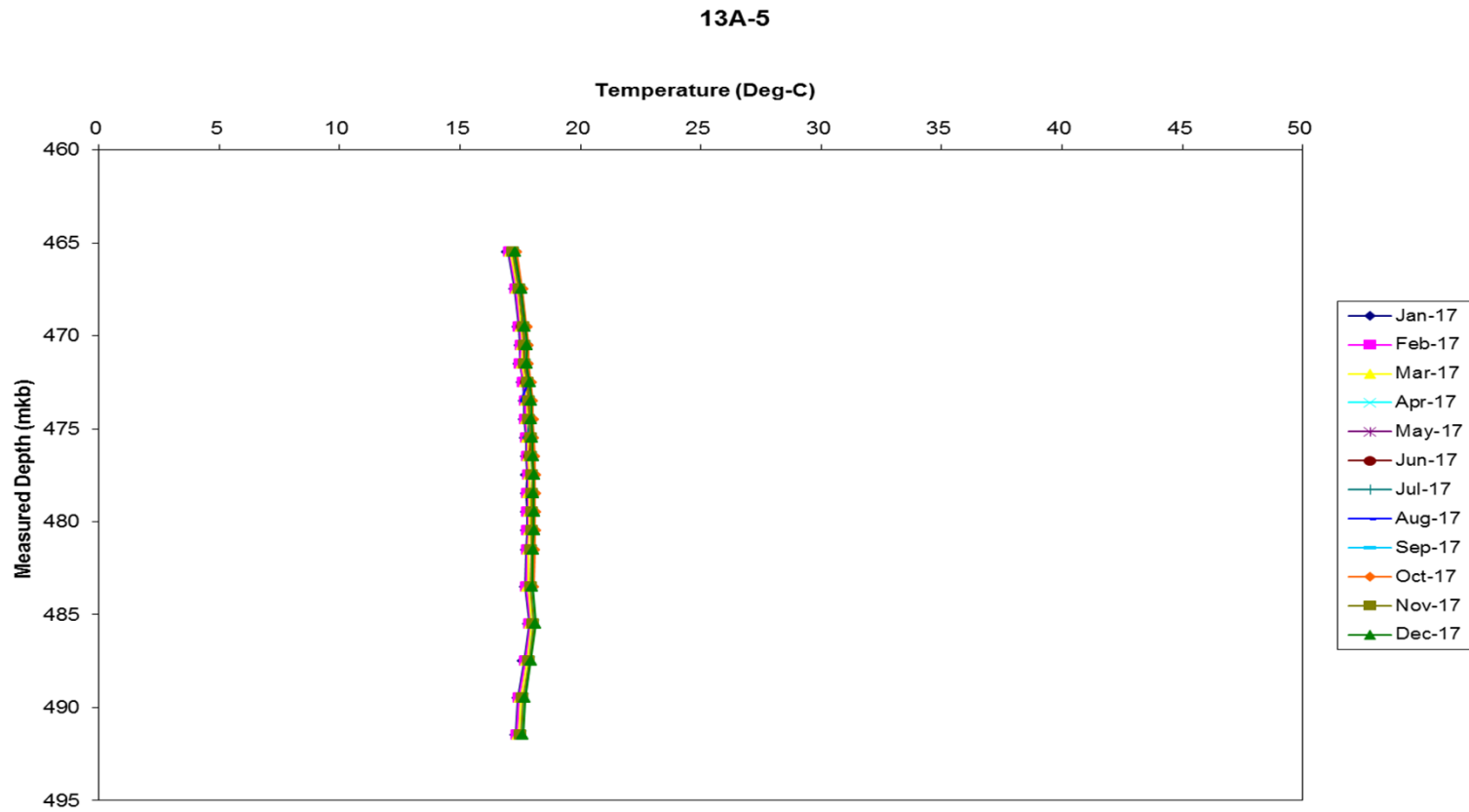
Primrose South Moore Pilot Wells

13A-5 – West/East



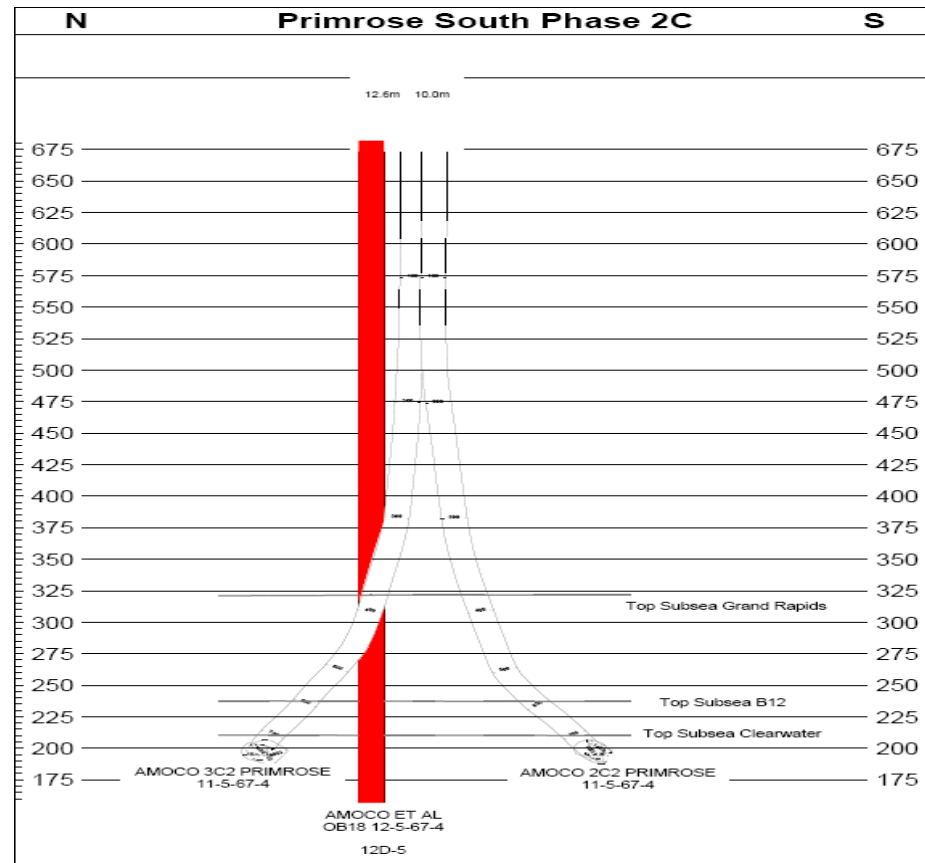
Primrose South Moore Pilot Wells

13A-5



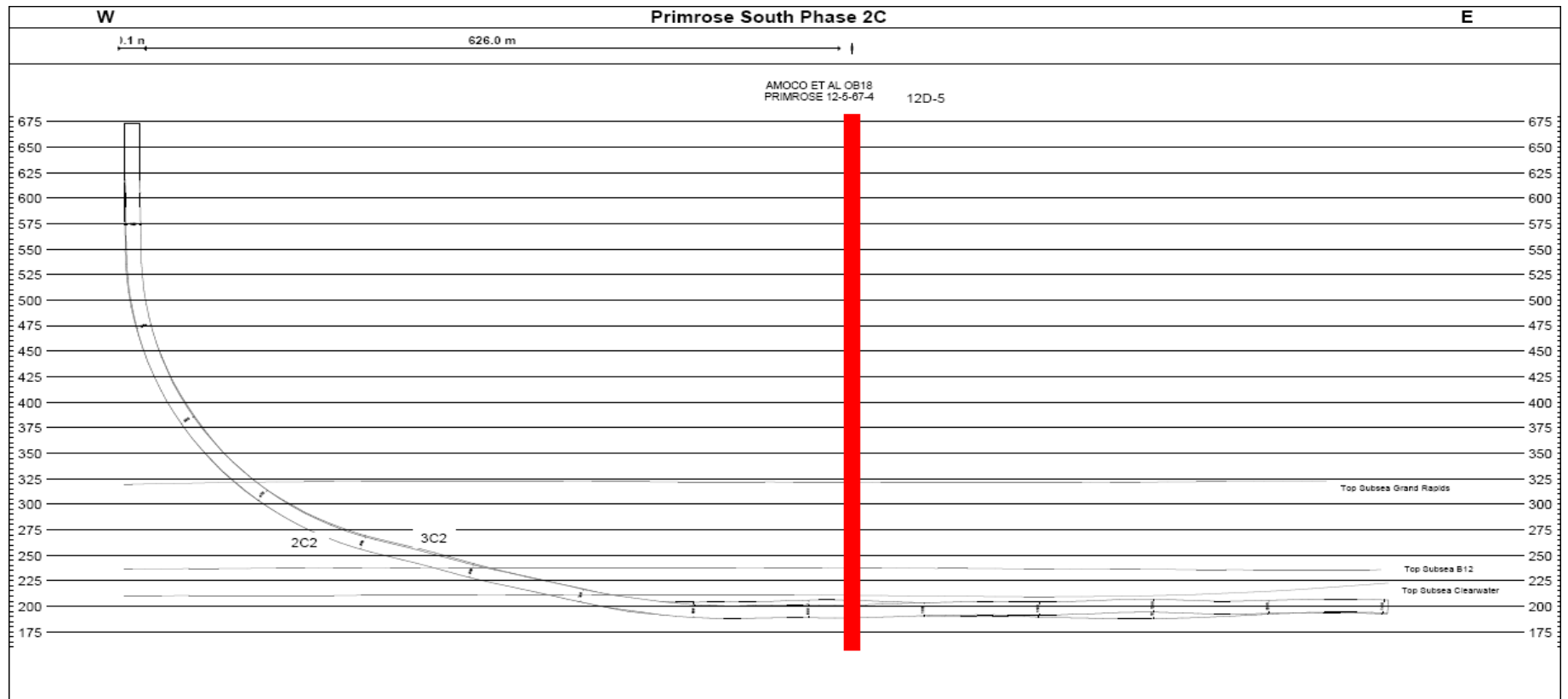
Primrose South Moore Pilot Wells

12D-5 – North/South



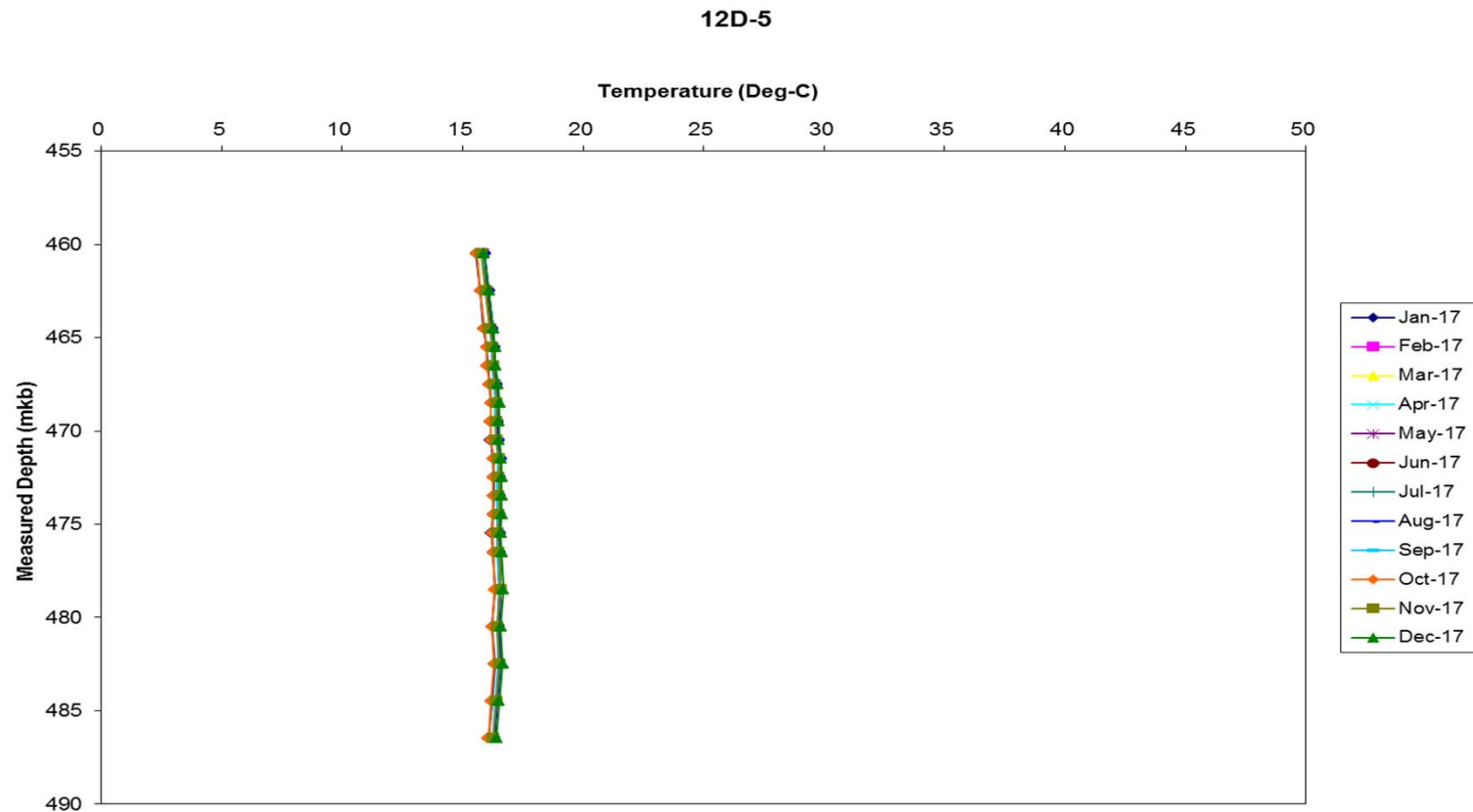
Primrose South Moore Pilot Wells

12D-5 – West/East

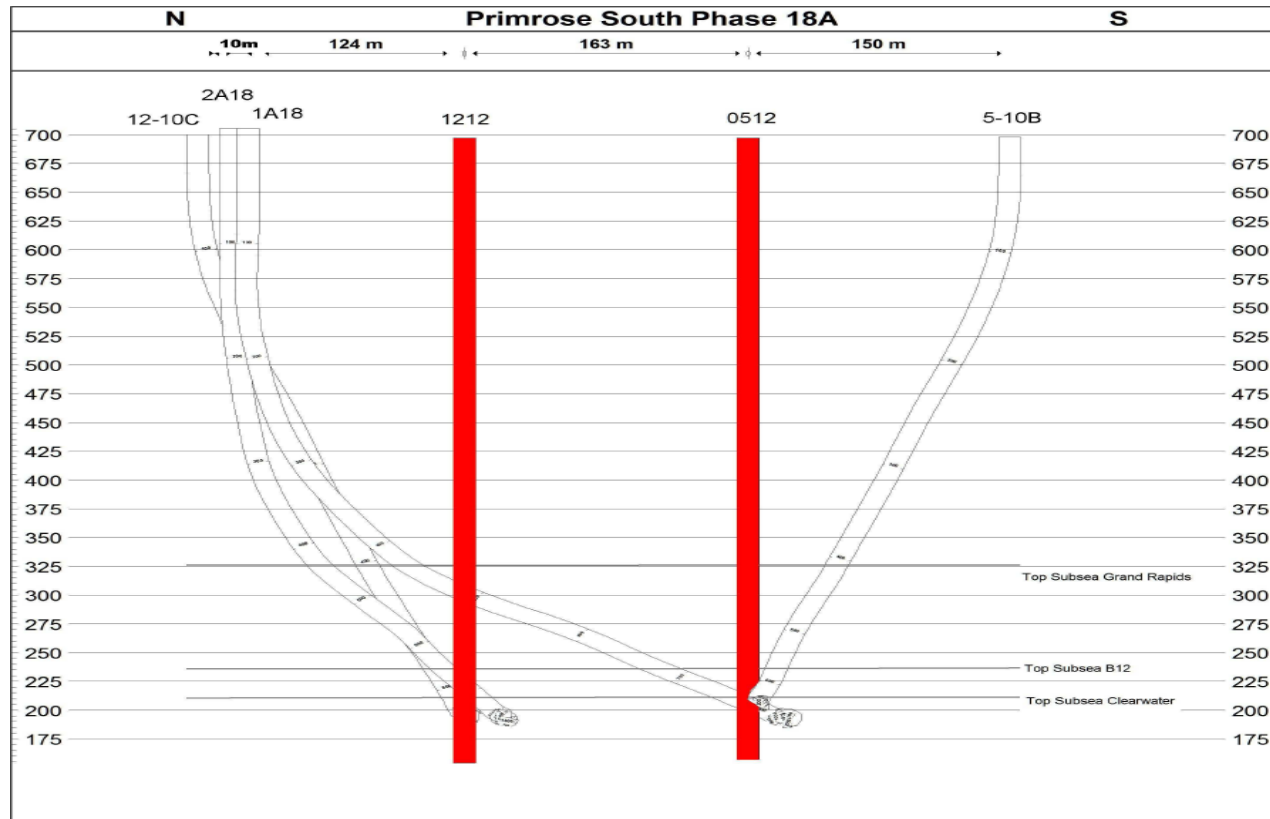


Primrose South Moore Pilot Wells

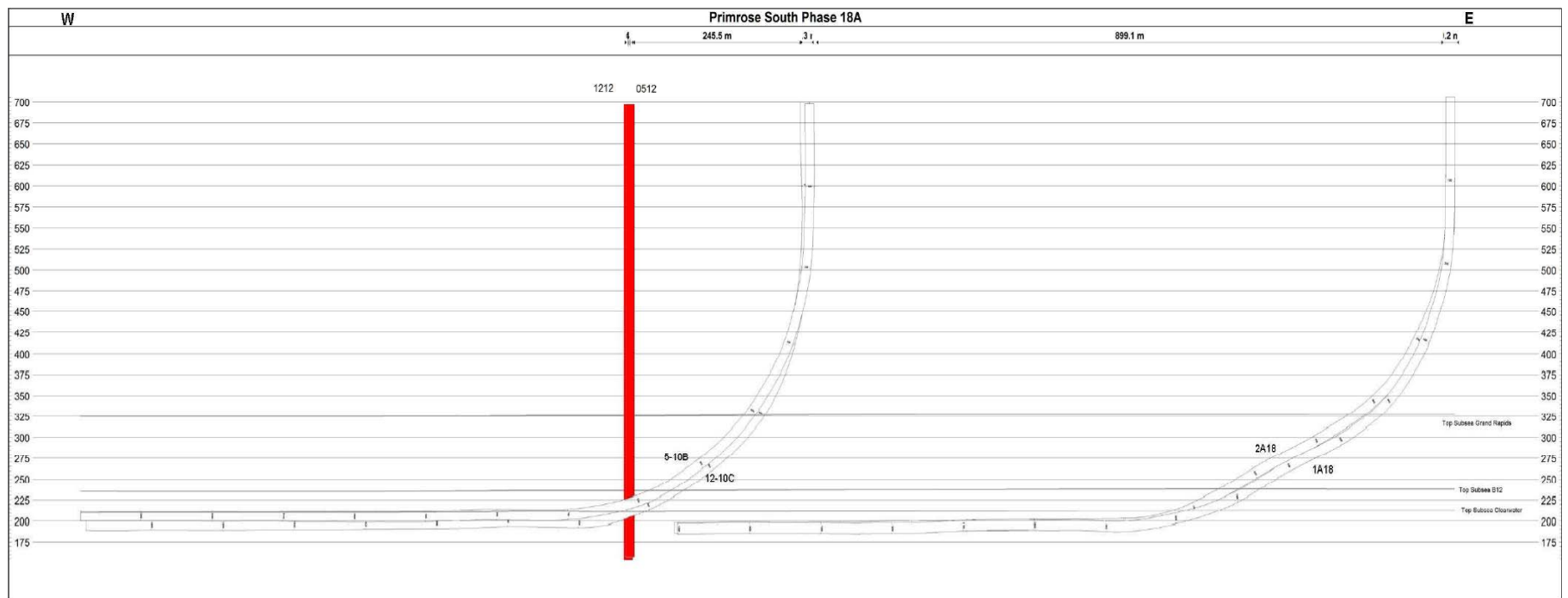
12D-5 Temperature



Primrose South Moore Pilot Wells 1212, 0512 – North/South

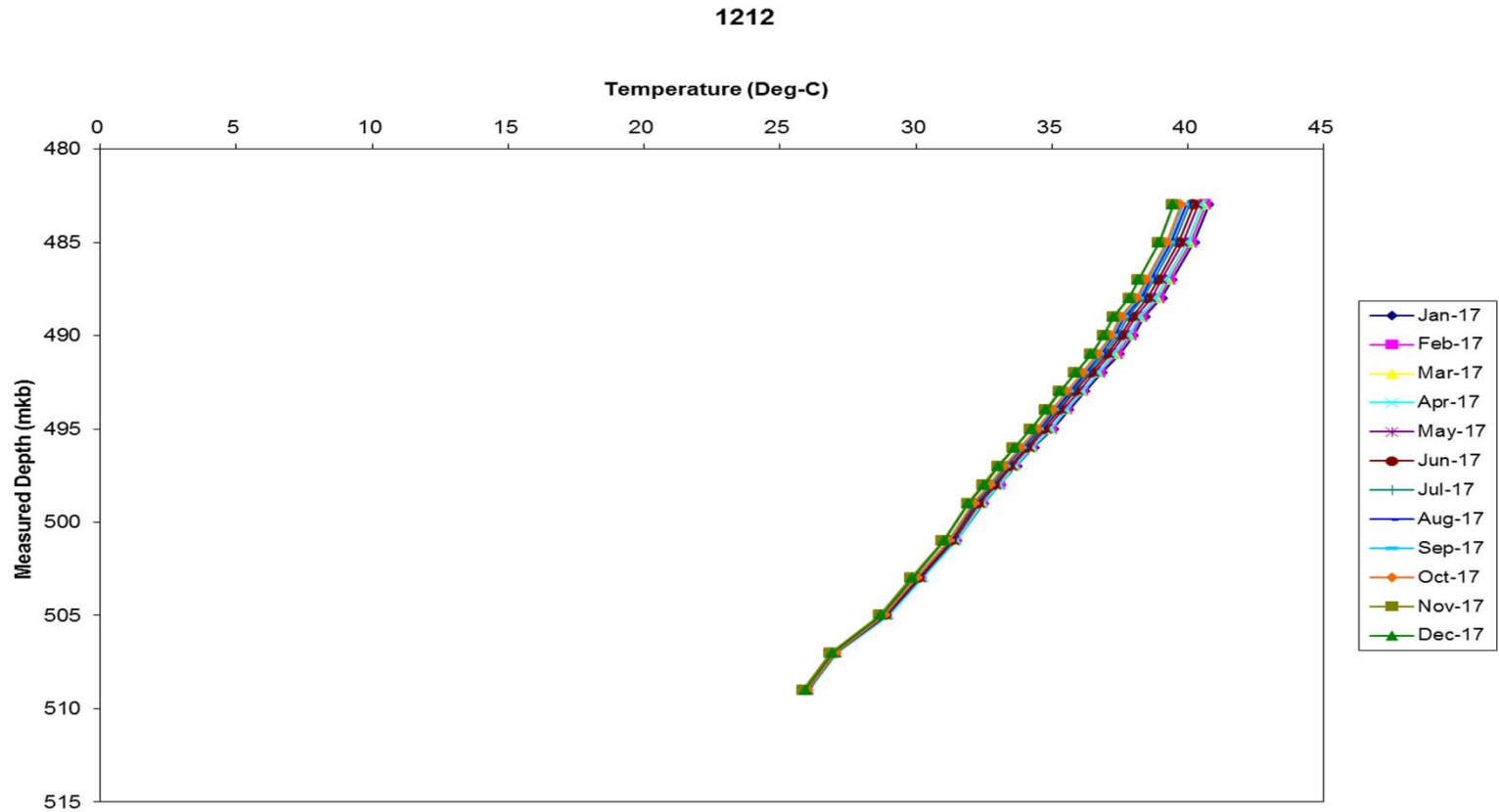


Primrose South Moore Pilot Wells 1212, 0512 – West/East



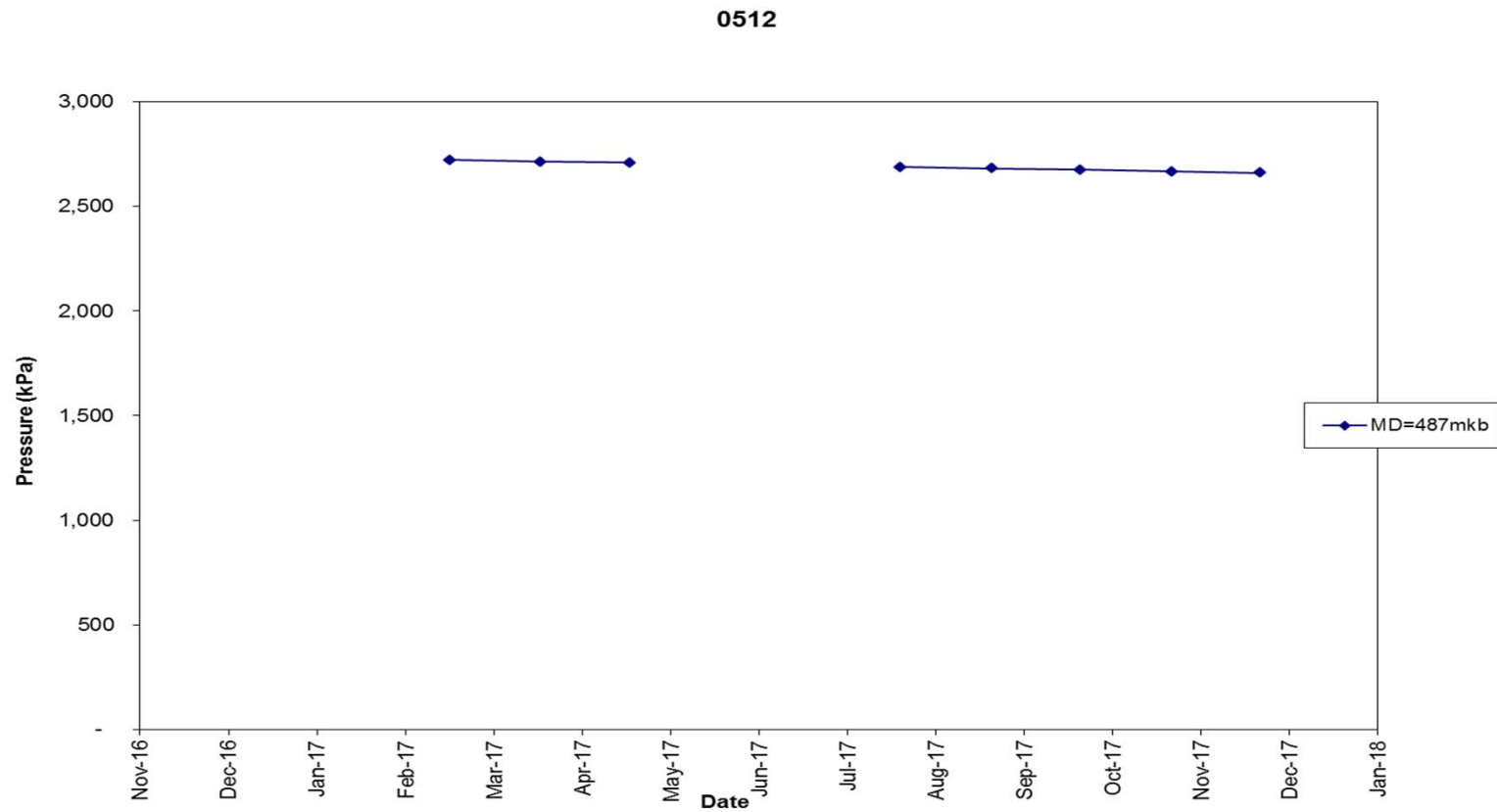
Primrose South Moore Pilot Wells

1212 Temperature



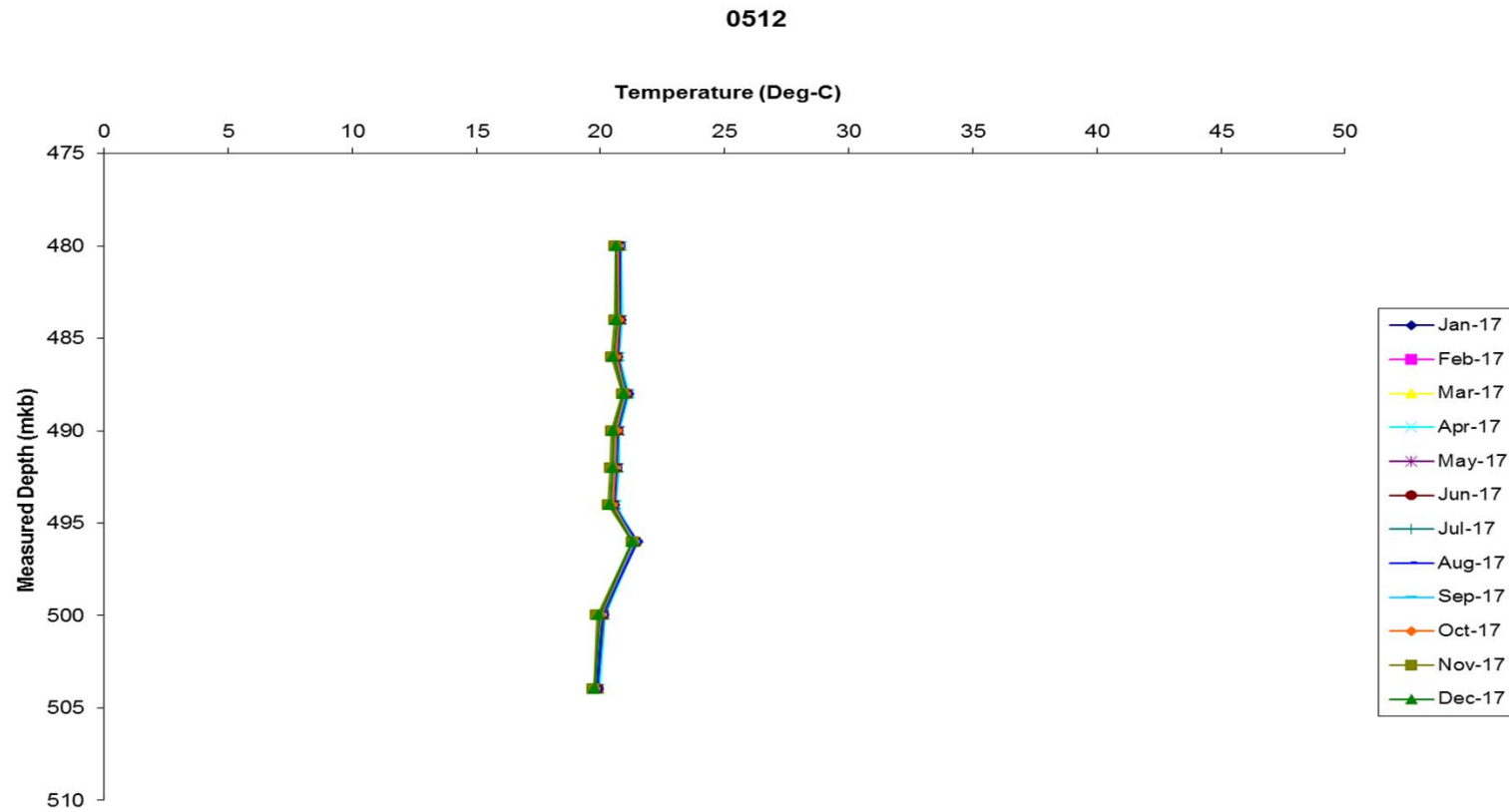
Primrose South Moore Pilot Wells

0512 Pressure



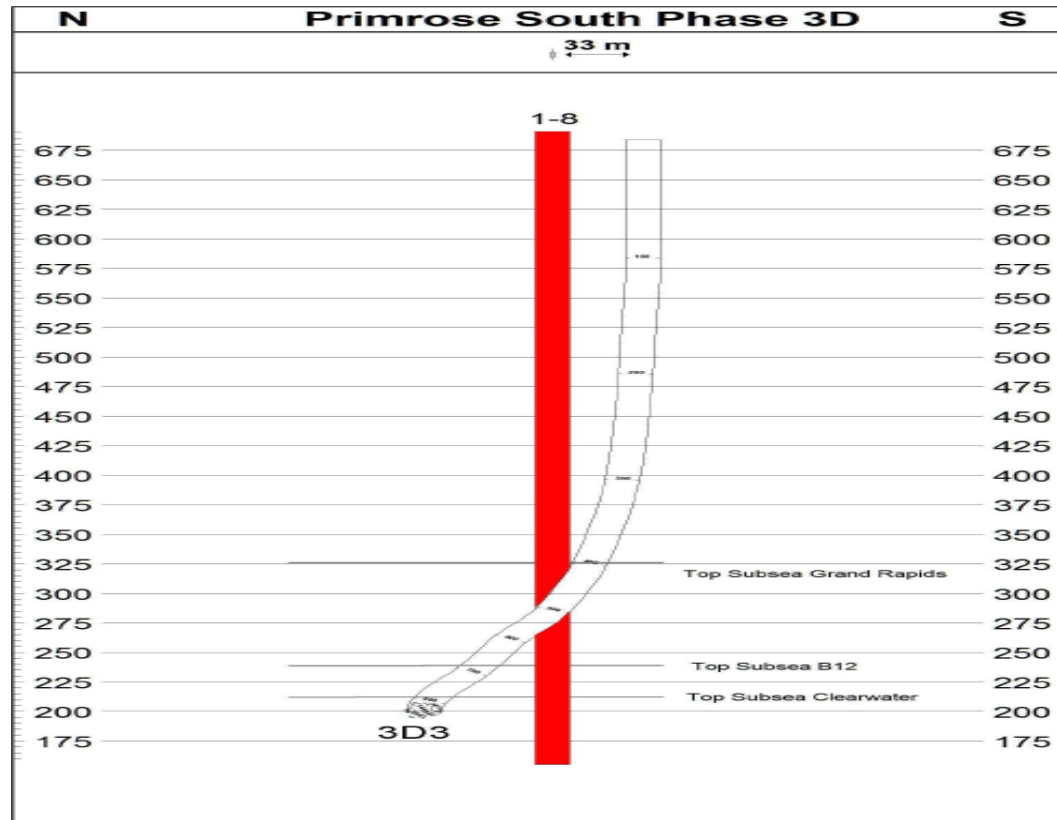
Primrose South Moore Pilot Wells

0512 Temperature



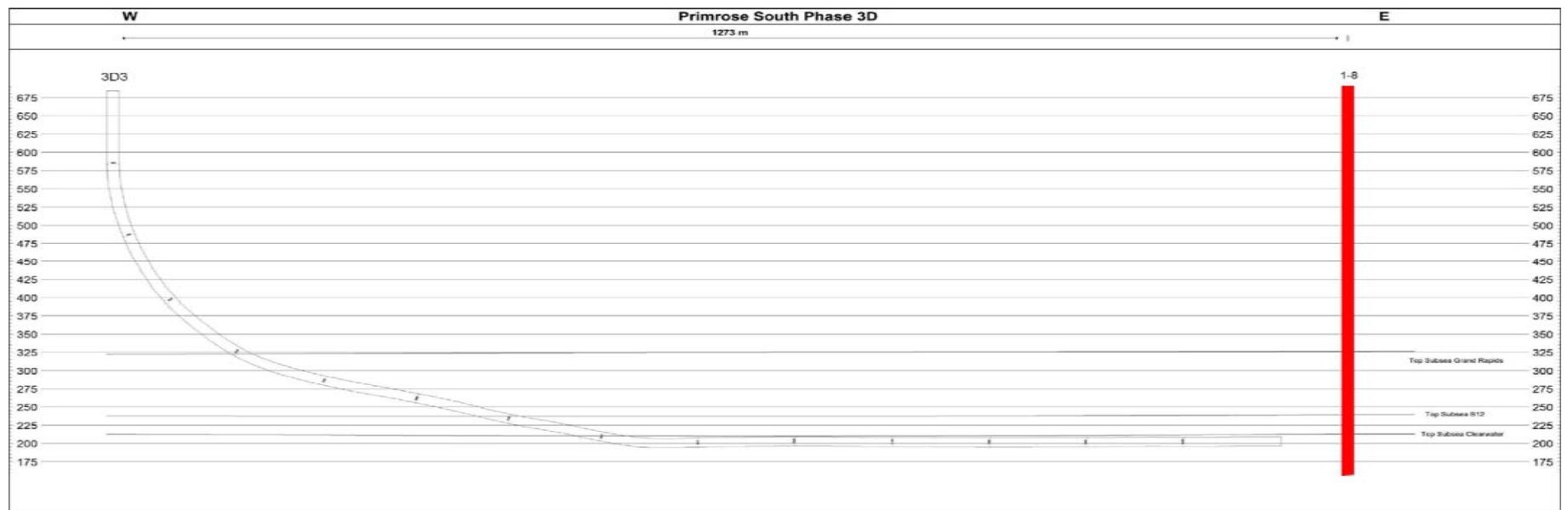
Primrose South Moore Pilot Wells

1-8 – North/South



Primrose South Moore Pilot Wells

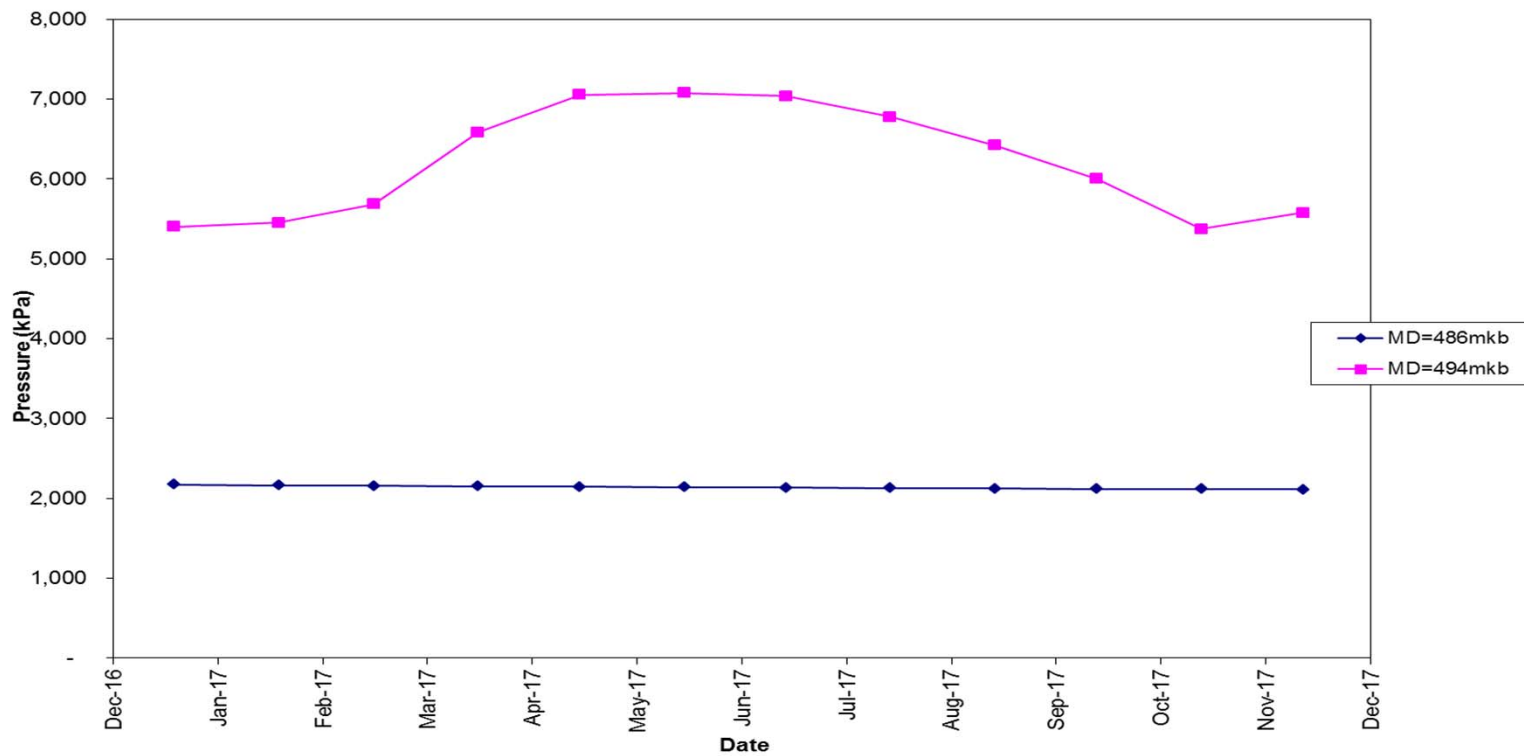
1-8 – West/East



Primrose South Moore Pilot Wells

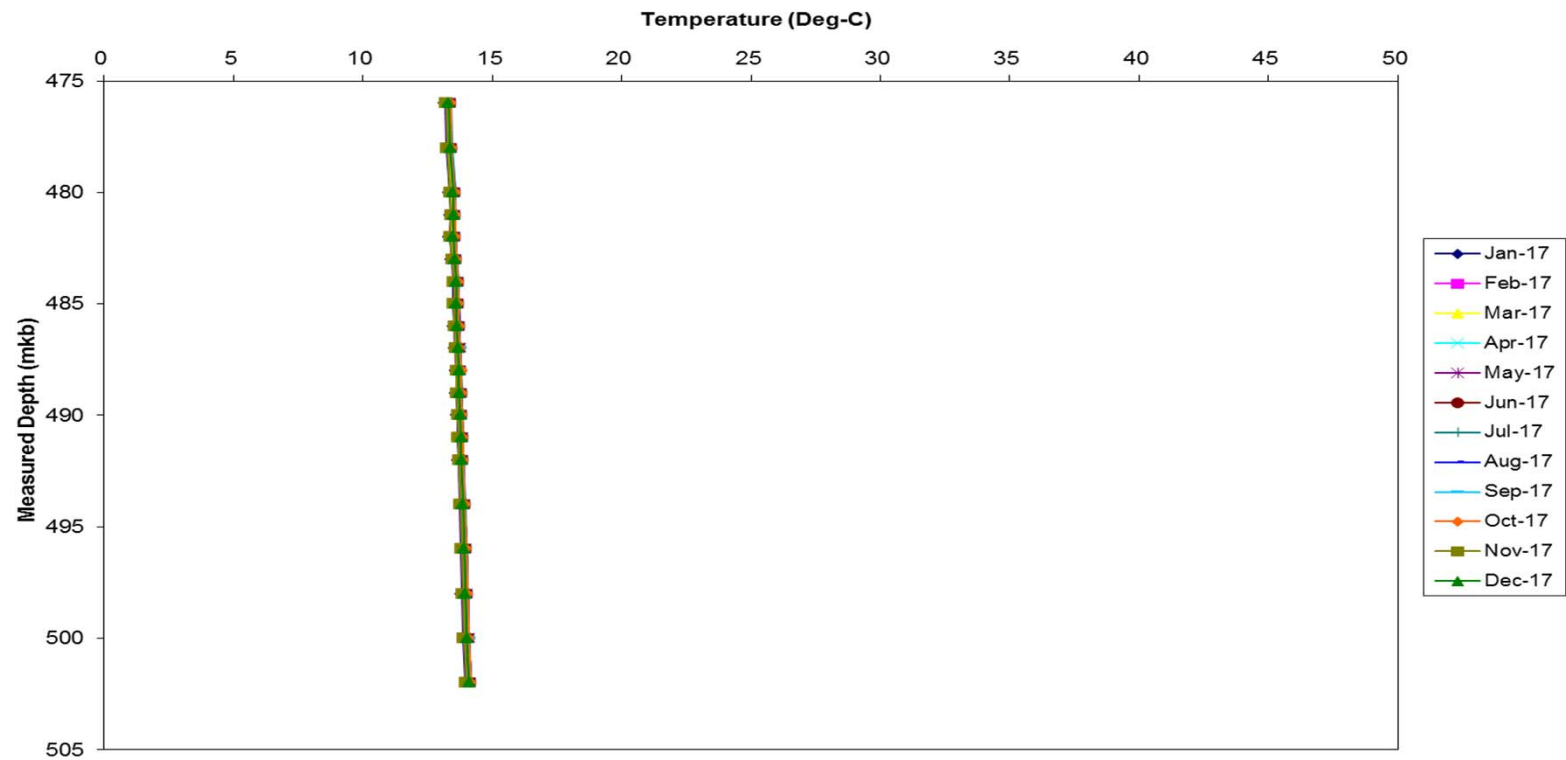
1-8 Pressure

1-8



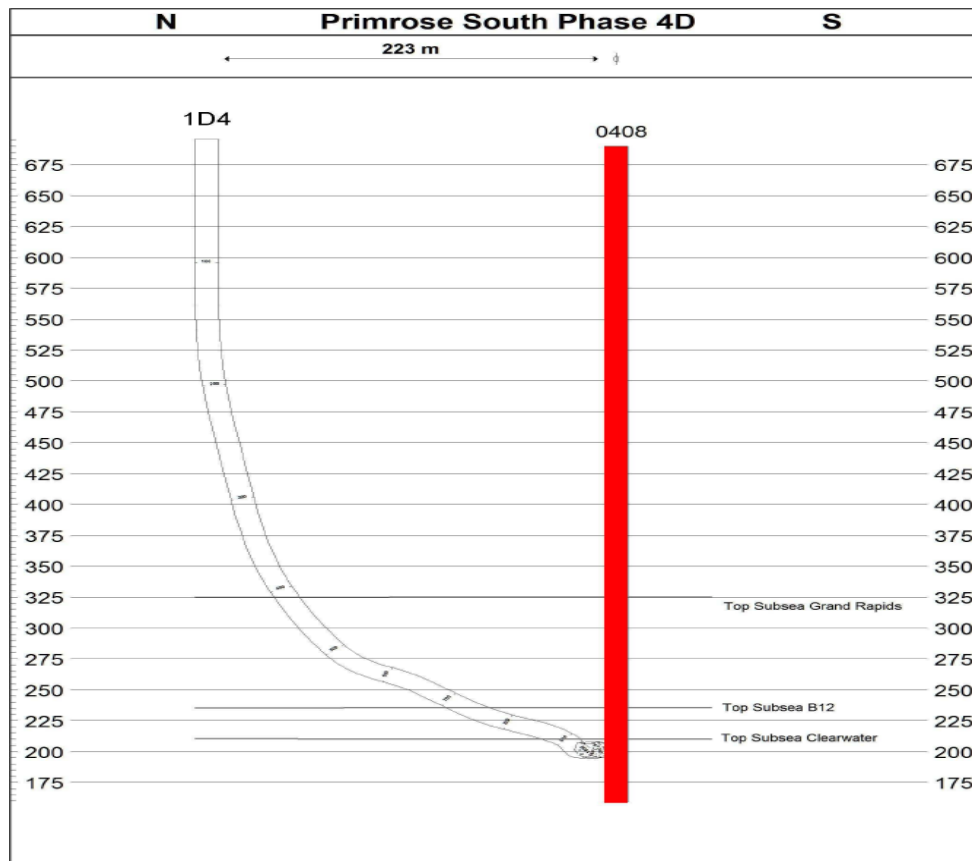
Primrose South Moore Pilot Wells 1-8 Temperature

1-8



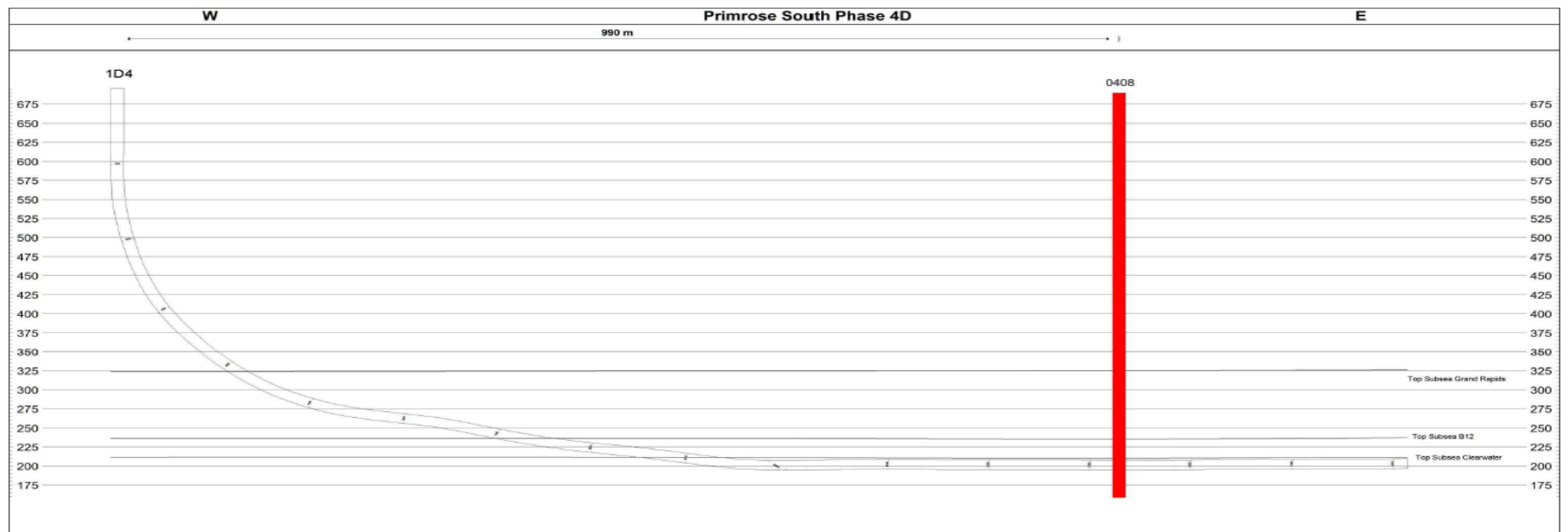
Primrose South Moore Pilot Wells

0408 – North/South



Primrose South Moore Pilot Wells

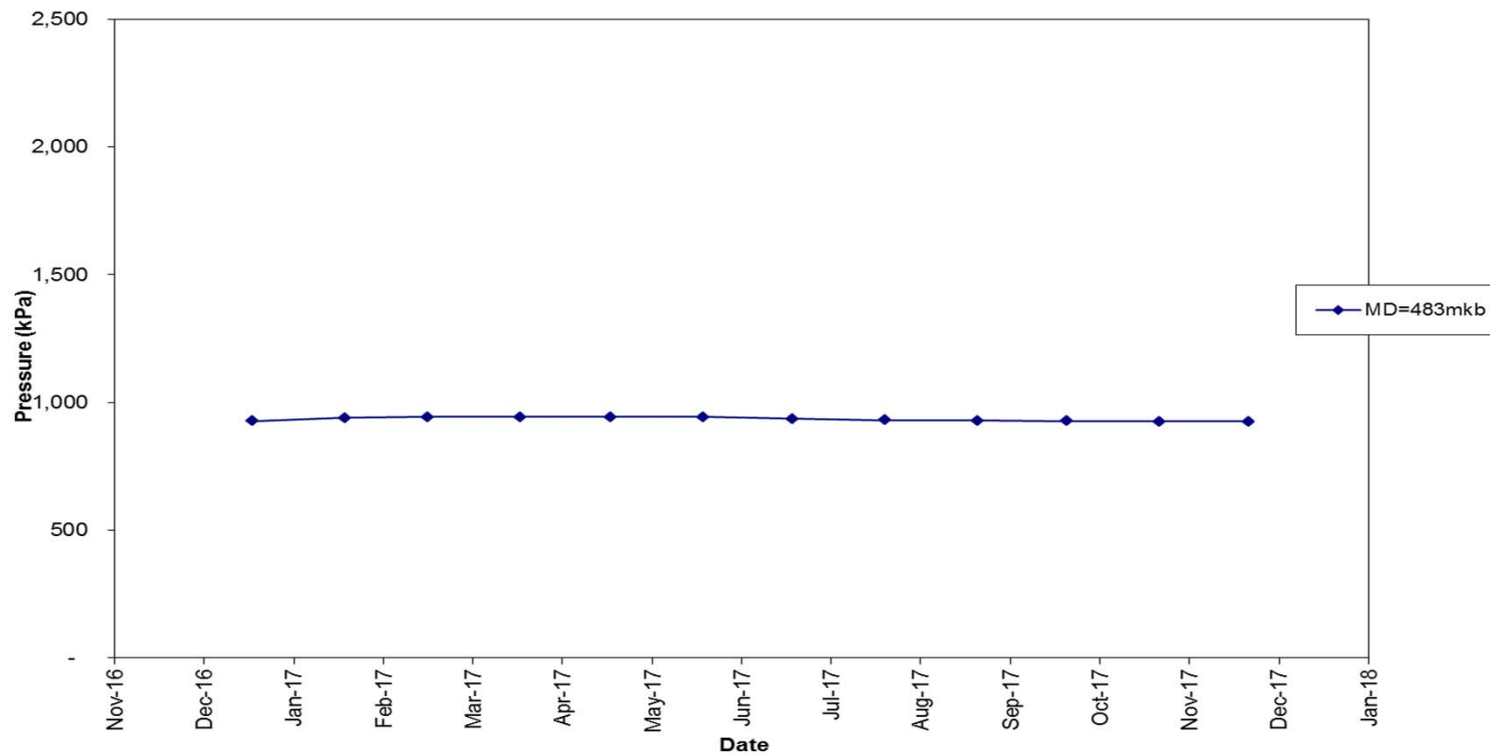
0408 – West/East



Primrose South Moore Pilot Wells

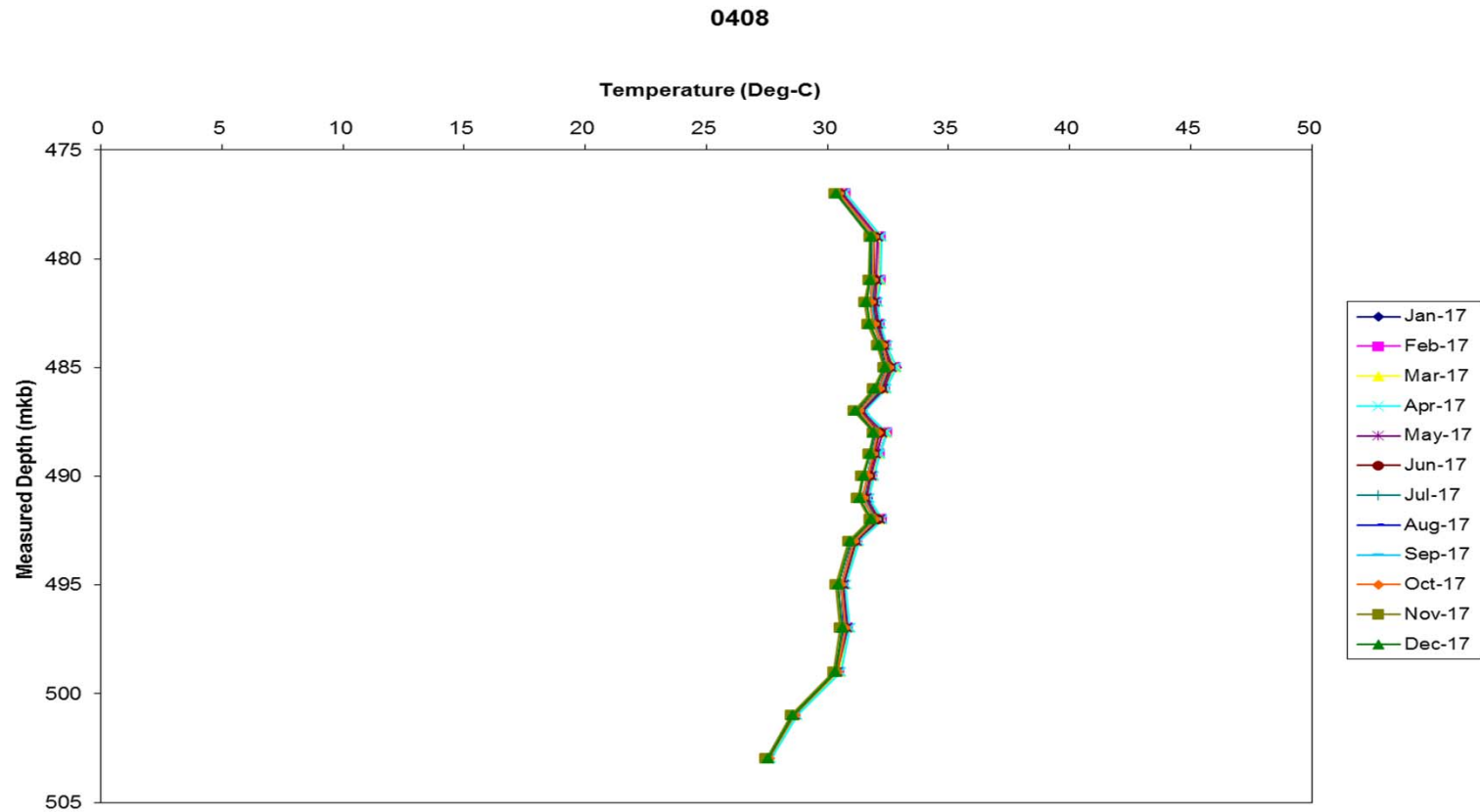
0408 Pressure

0408



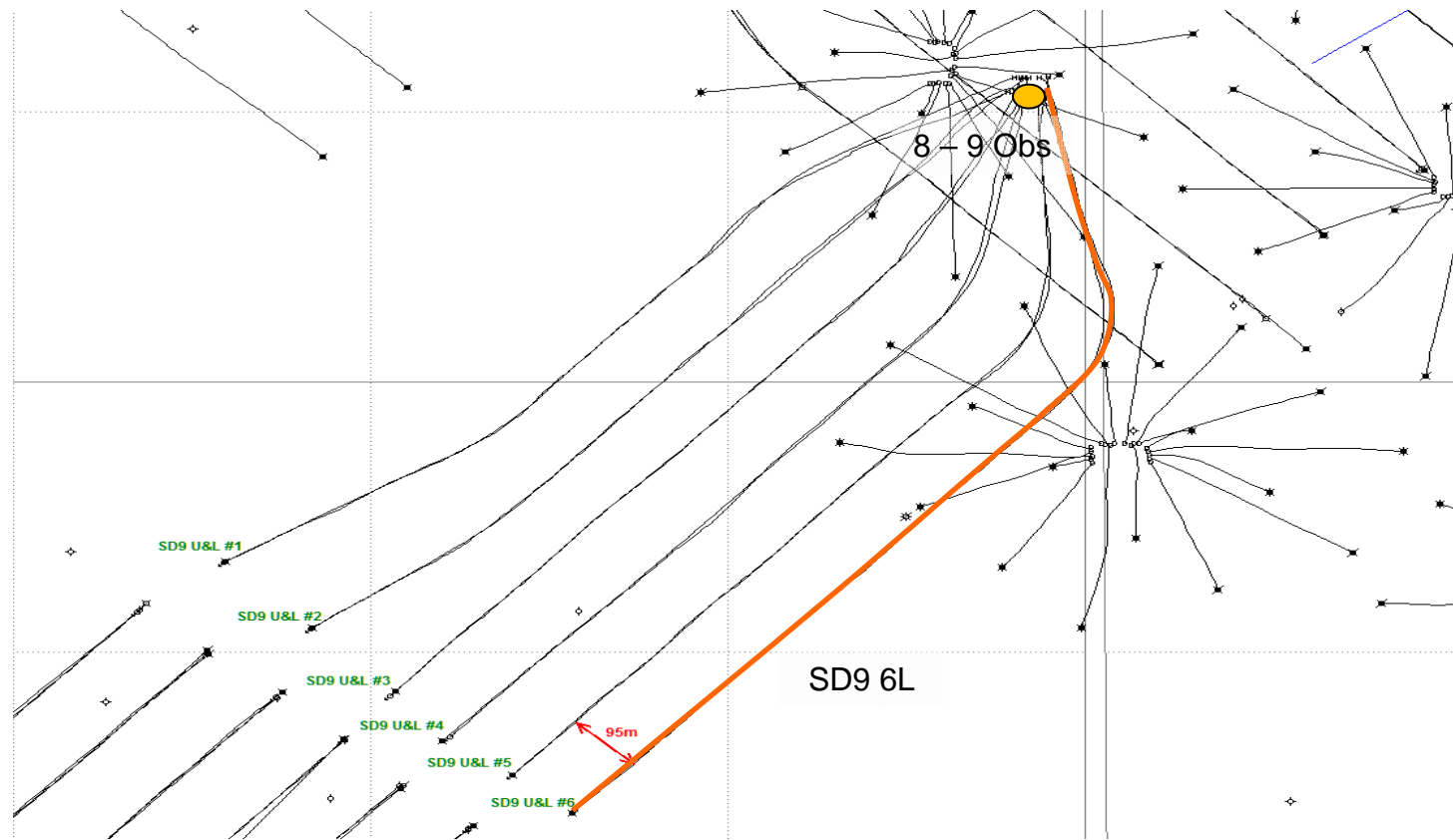
Primrose South Moore Pilot Wells

0408 Temperature



Wolf Lake Observation Wells

SD9, Well #6 & 8 – 9 Obs well

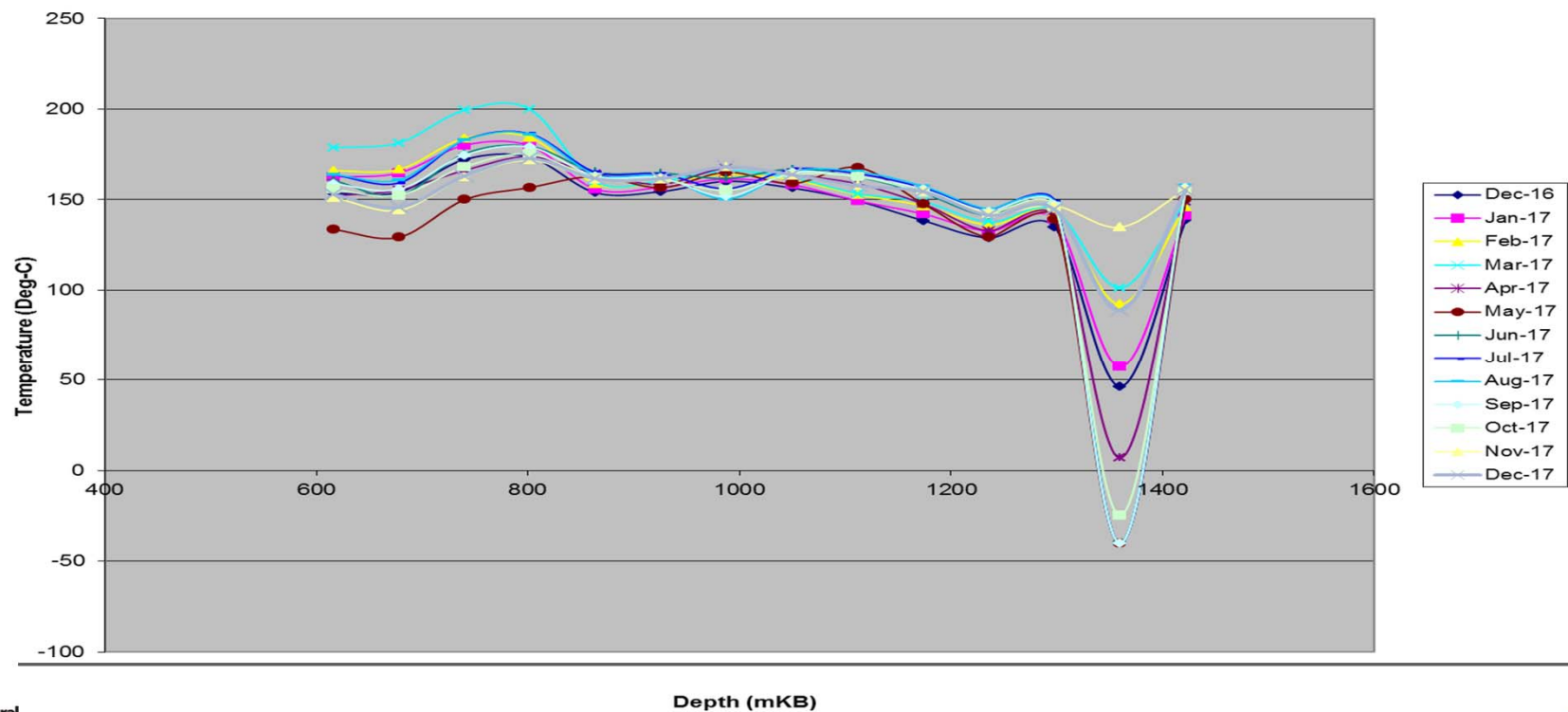


Wolf Lake SD9, Well #6

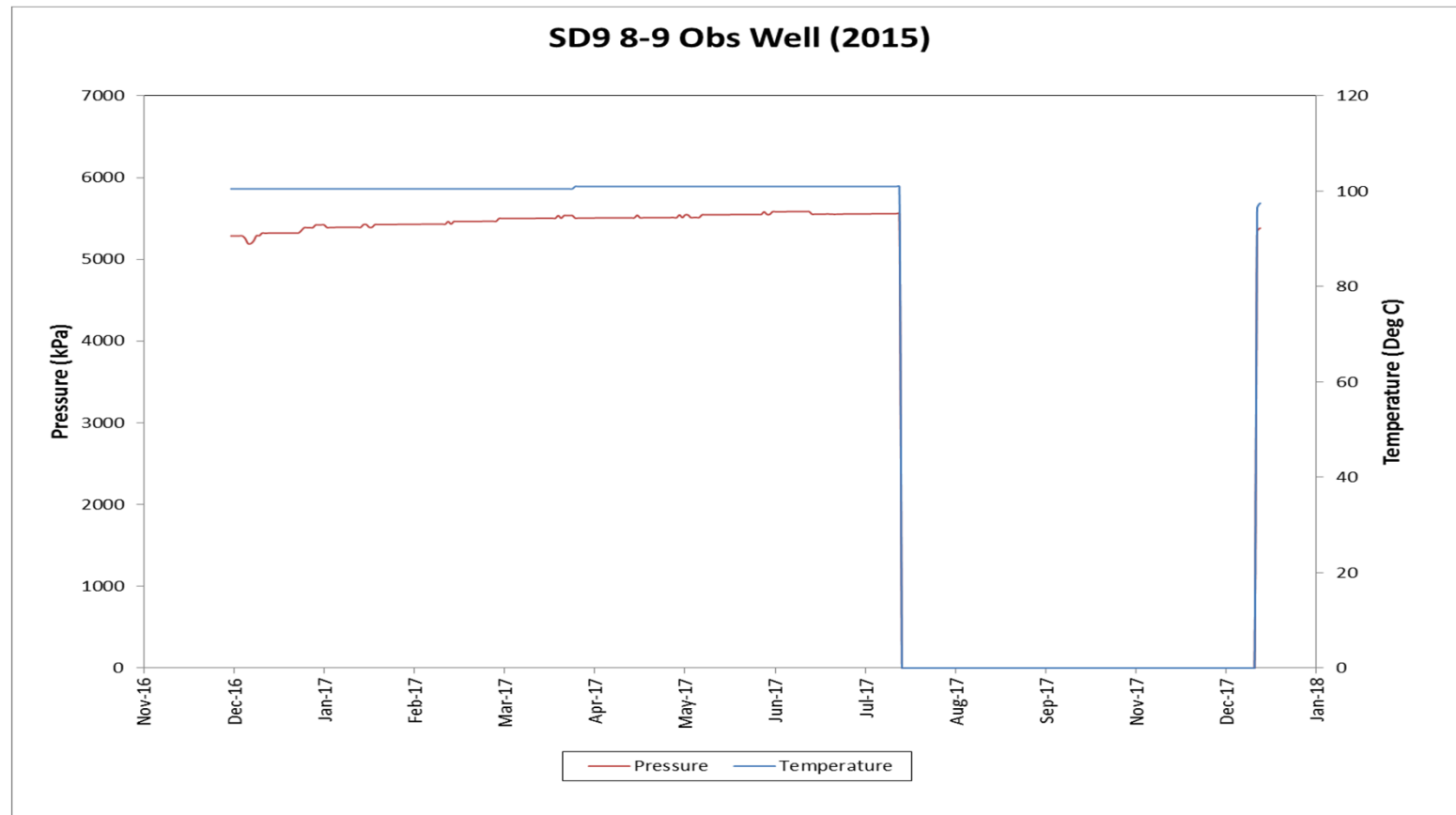
Thermocouples

SAGD Lower/Production Well

Horizontal Thermocouples in Production Zone

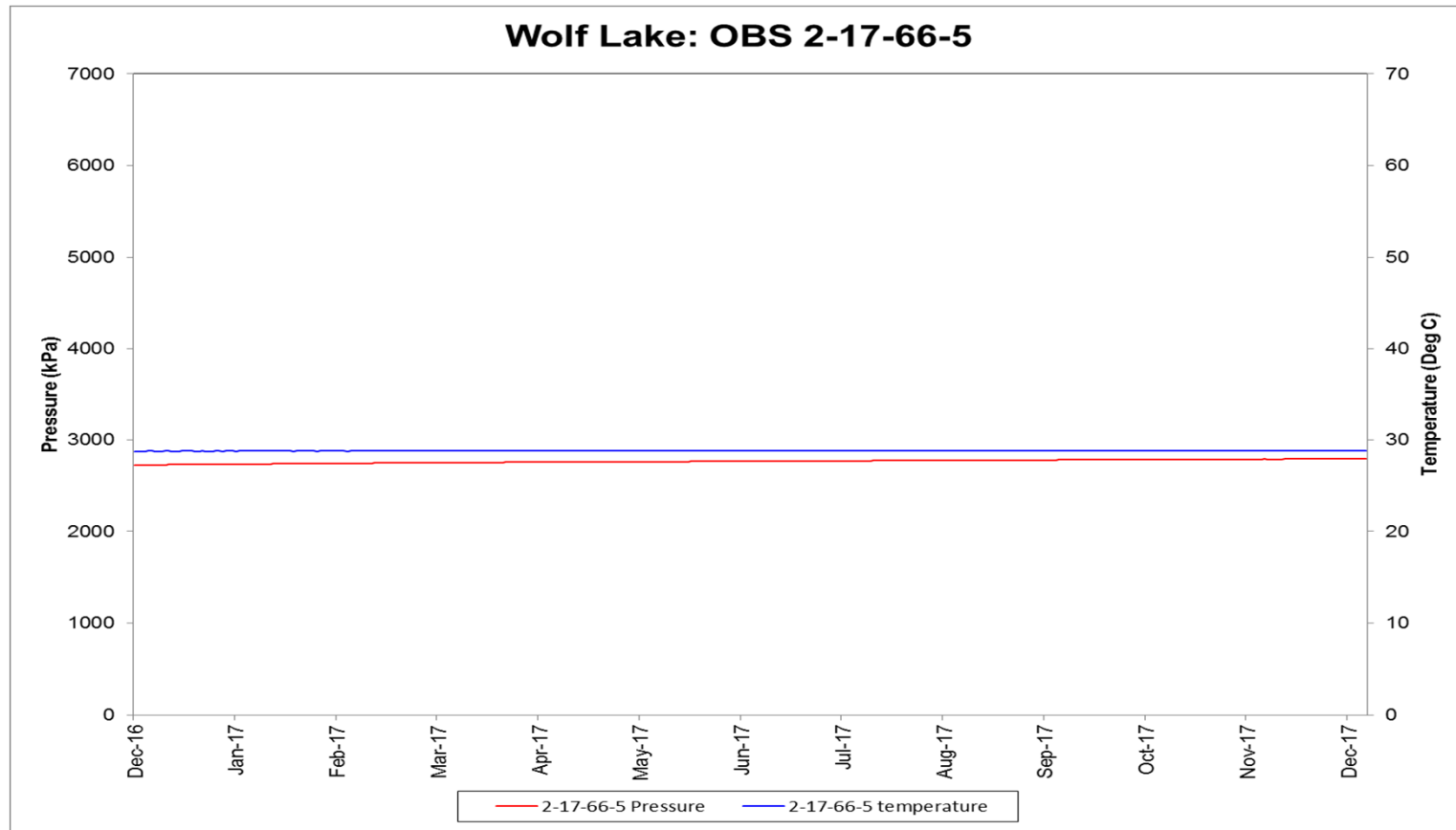


Wolf Lake SD9 8 – 9 Obs Well



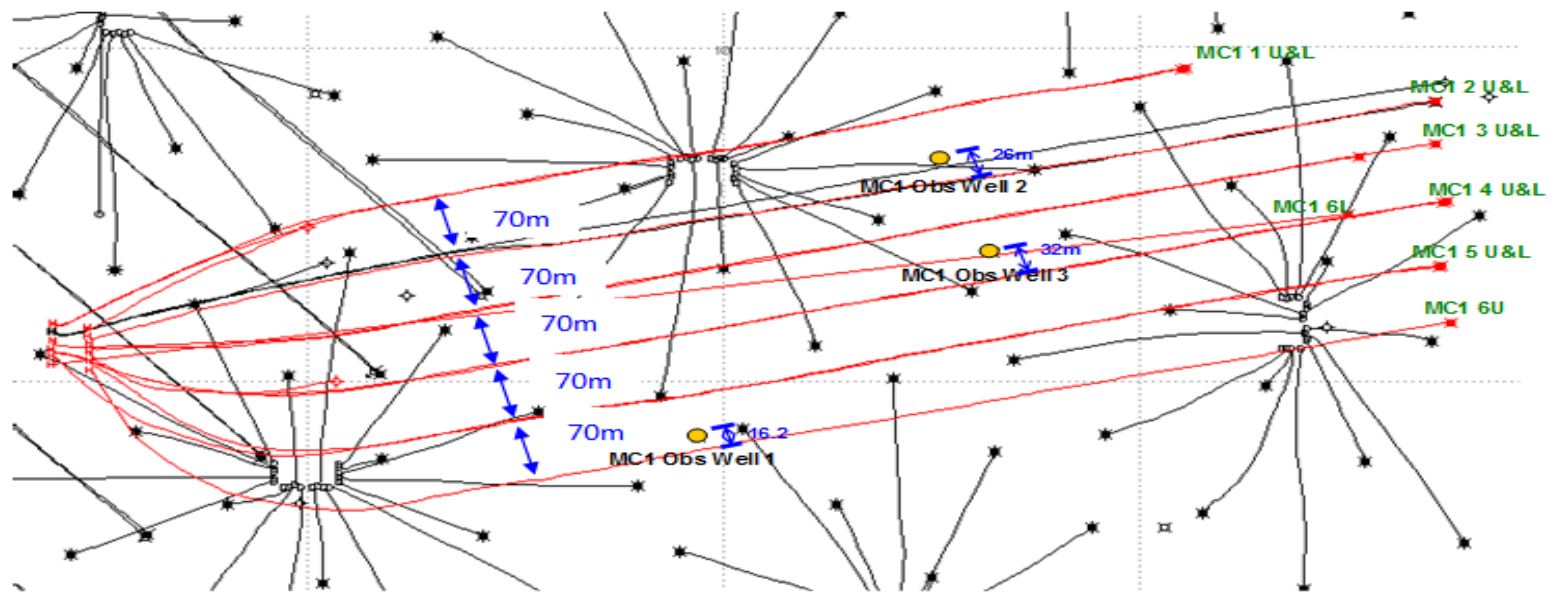
Wolf Lake Clearwater

BP PCI 5M Wolf Lake 2-17-66-5



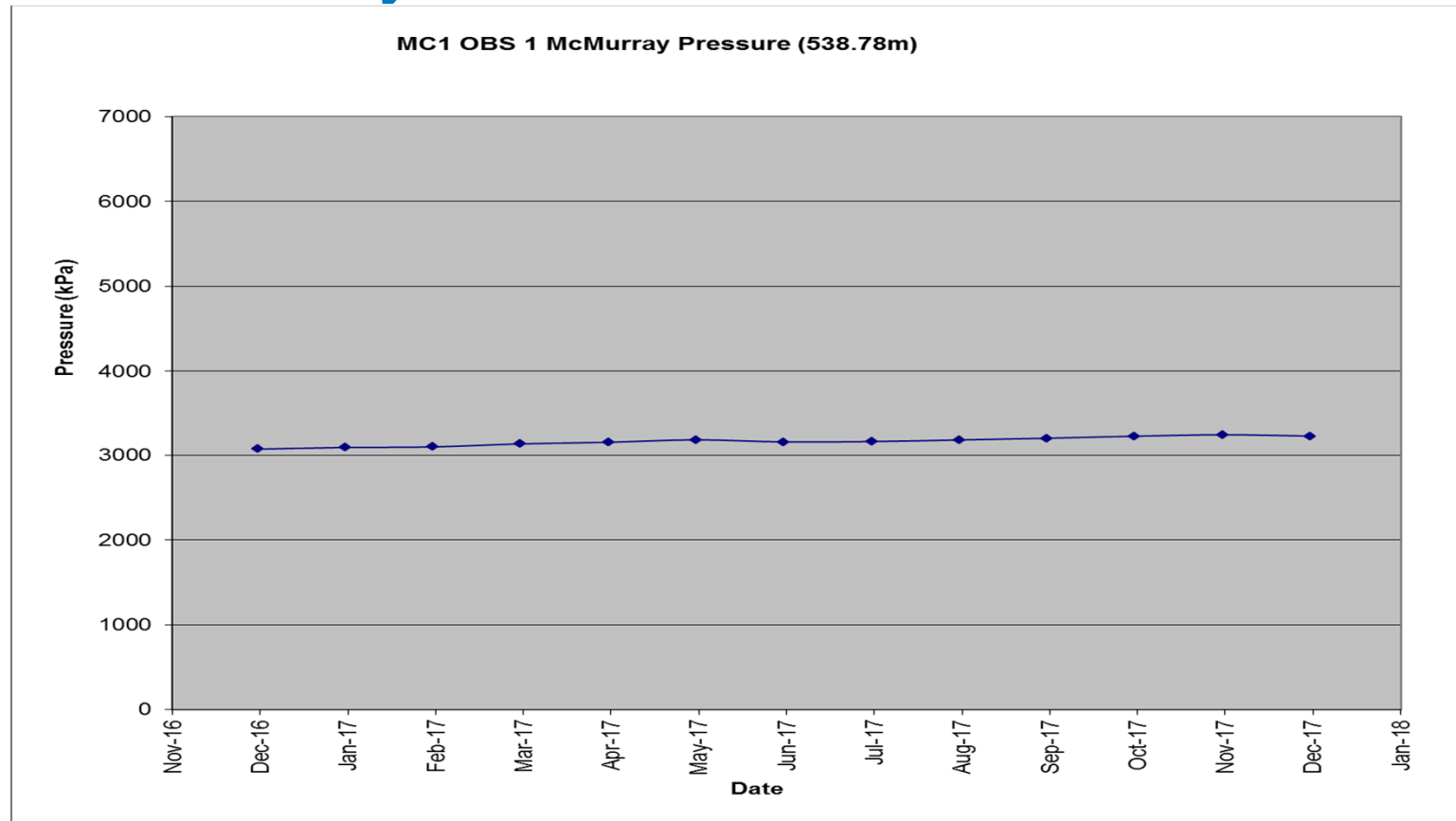
Wolf Lake MC 1 OBS Wells

OBS 1, 2 & 3

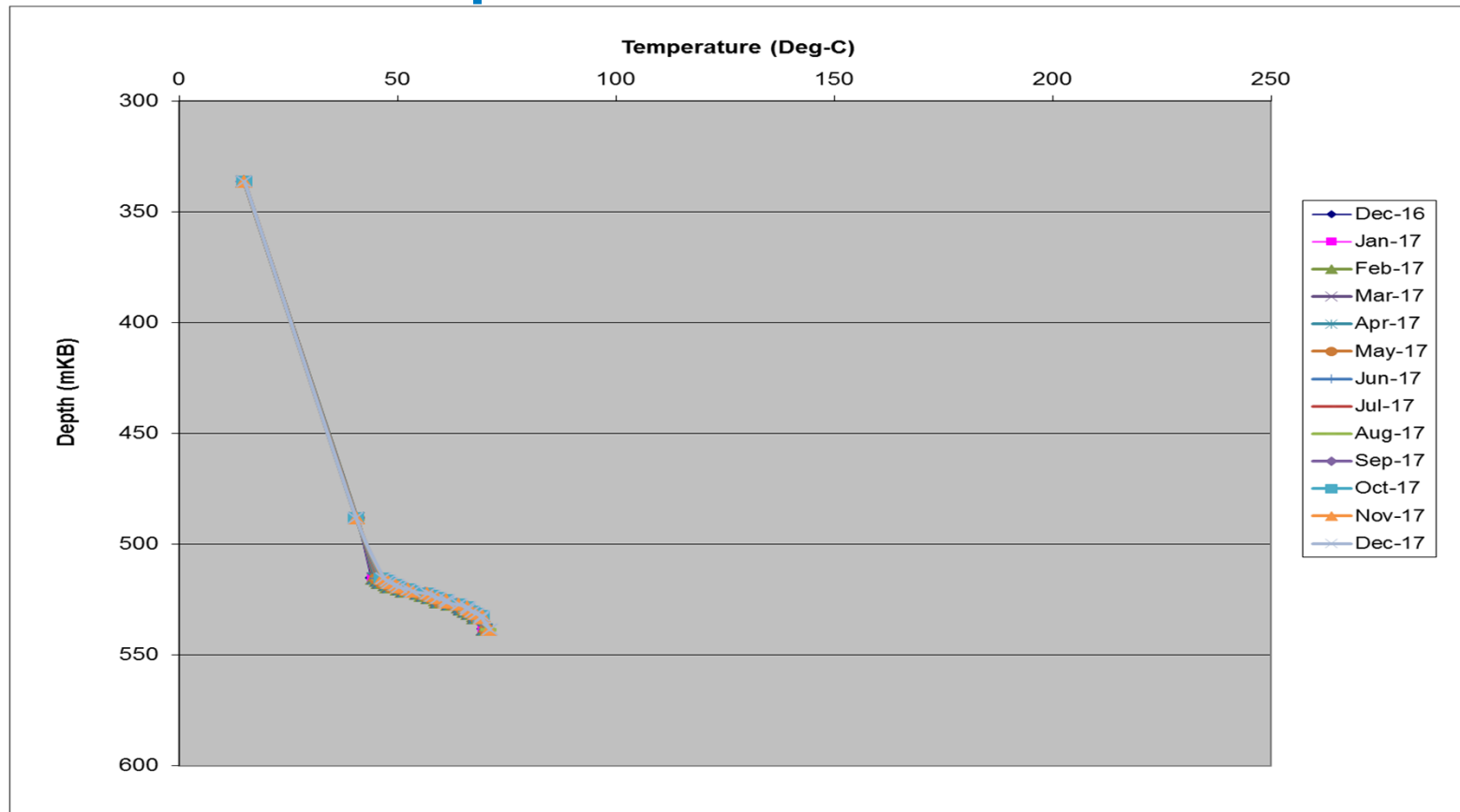


Wolf Lake MC1

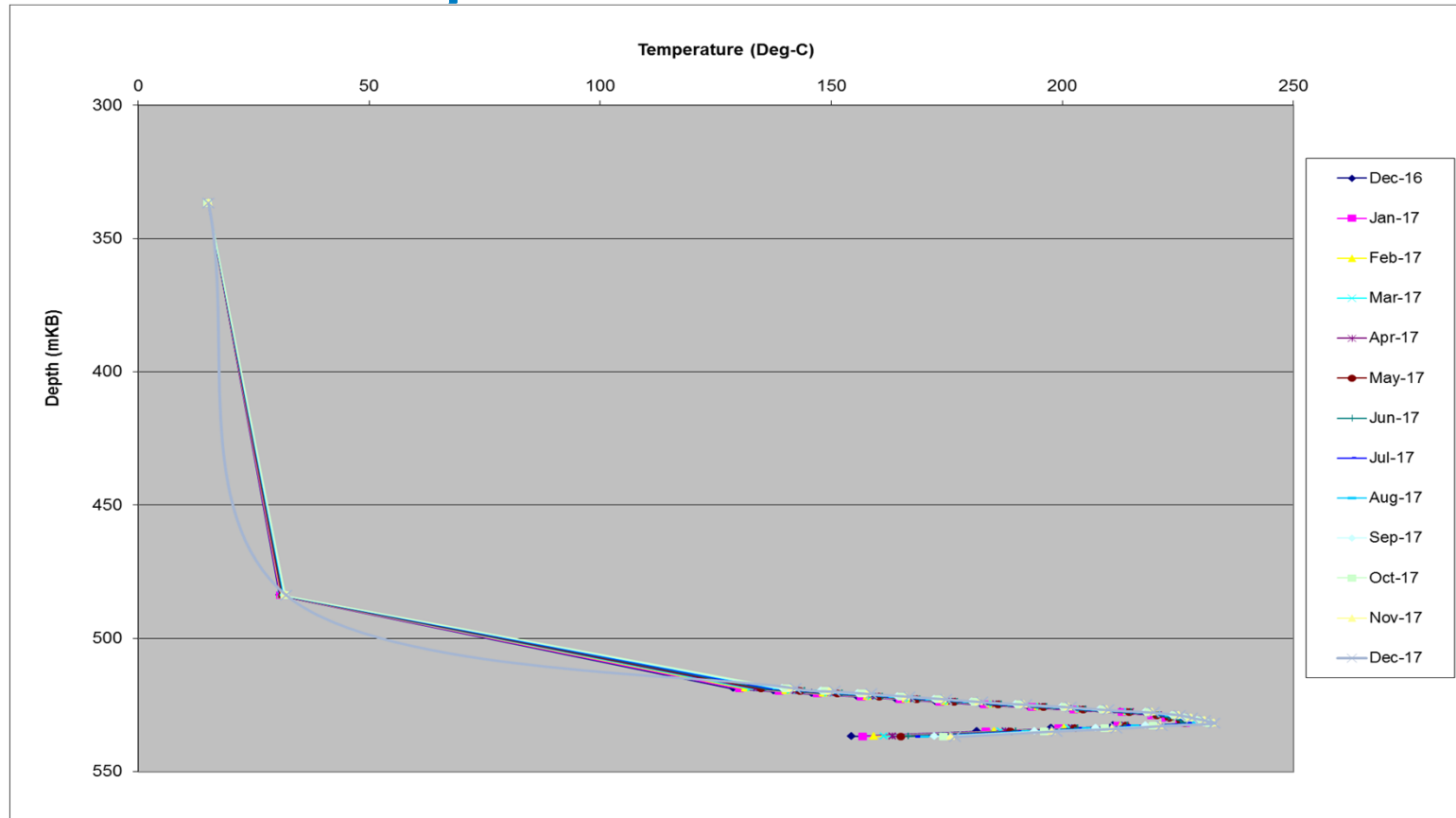
OBS 1 McMurray Pressure



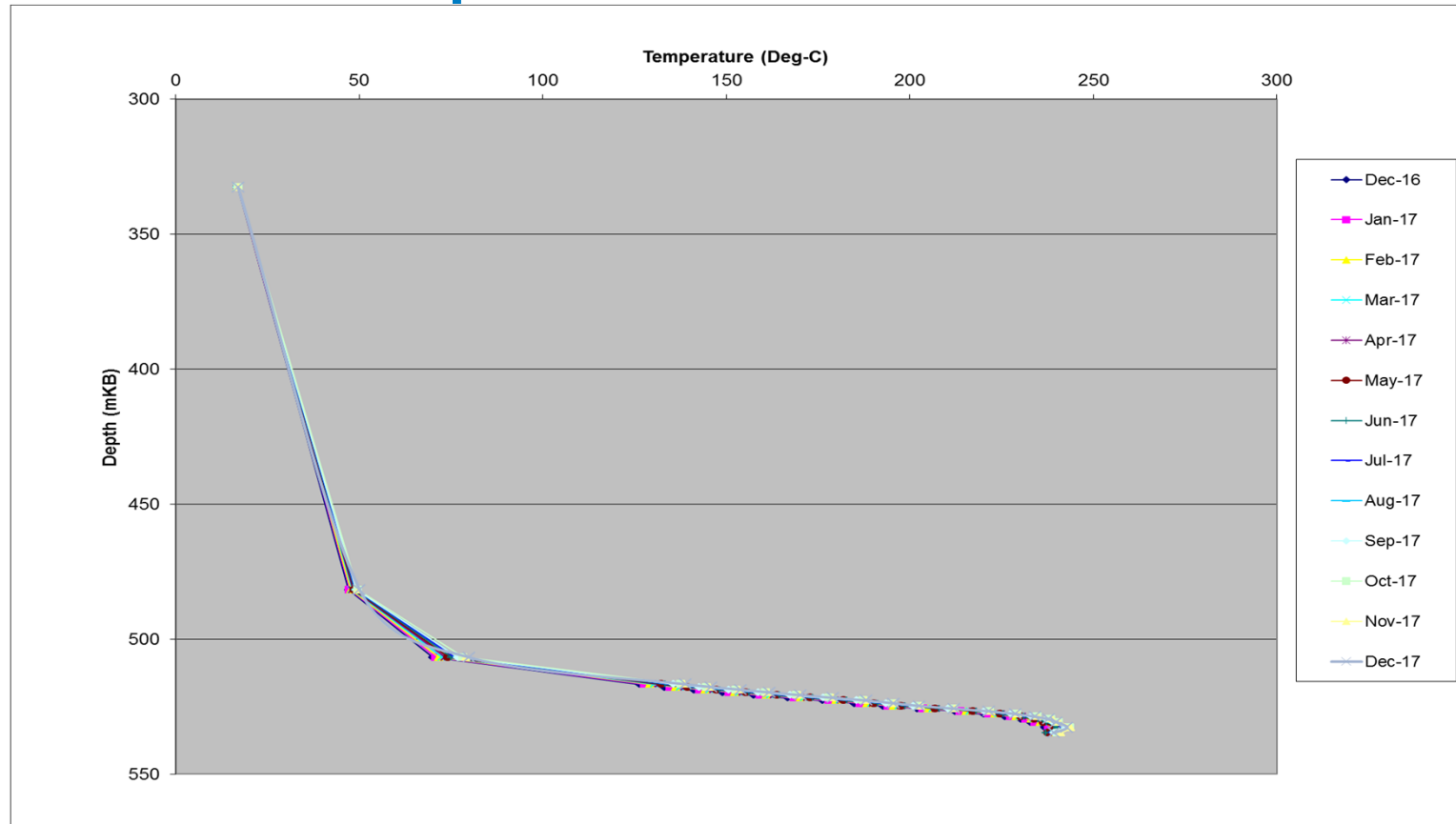
Wolf Lake MC1 OBS 1 Thermocouple



Wolf Lake MC1 OBS 2 Thermocouple



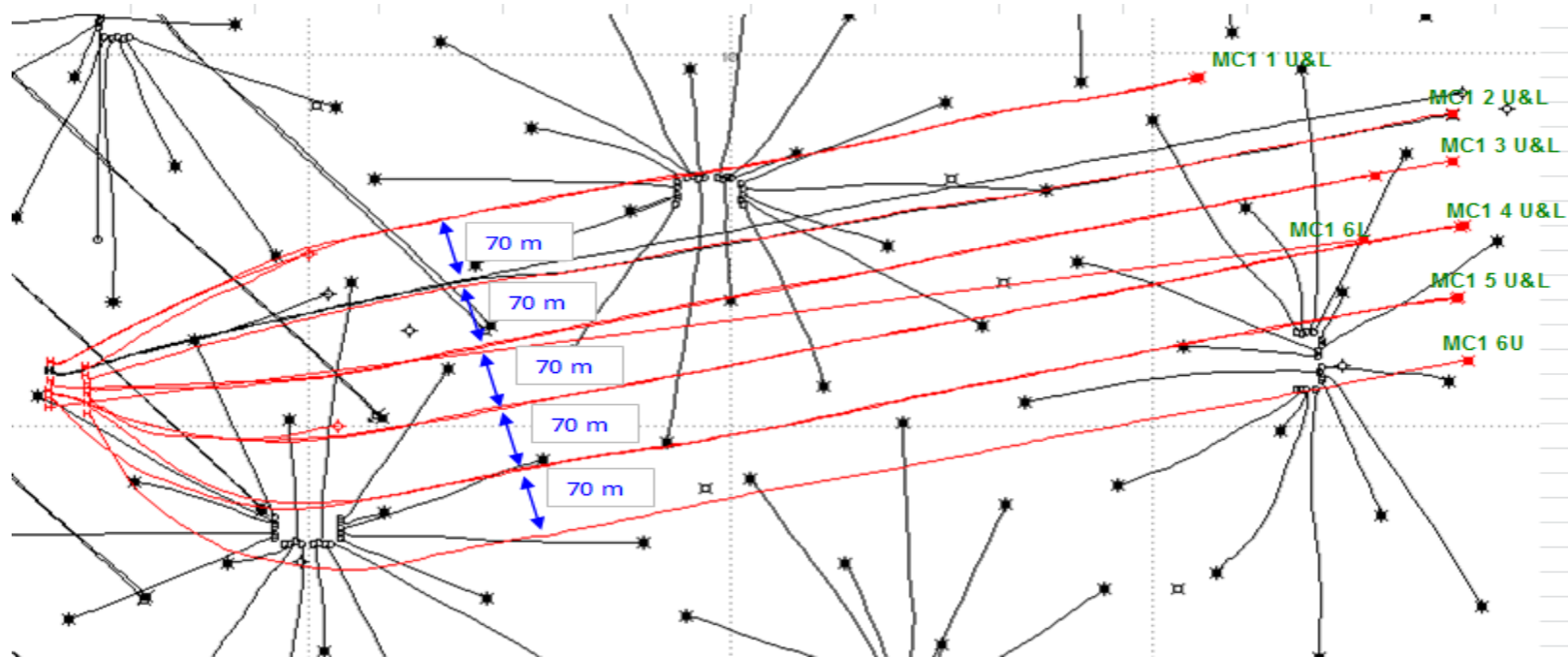
Wolf Lake MC1 OBS 3 Thermocouple



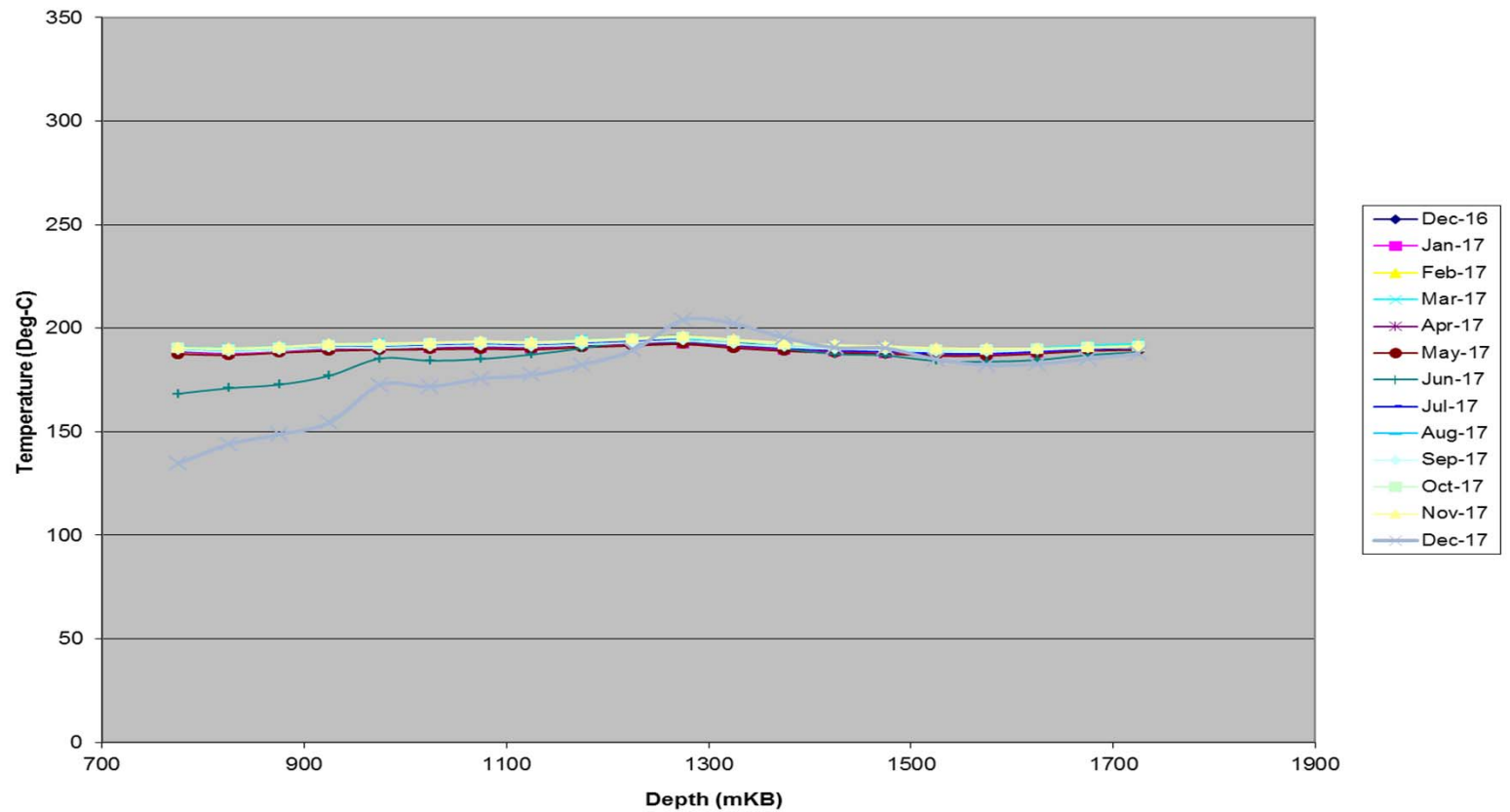
Wolf Lake MC 1

Temperature Data

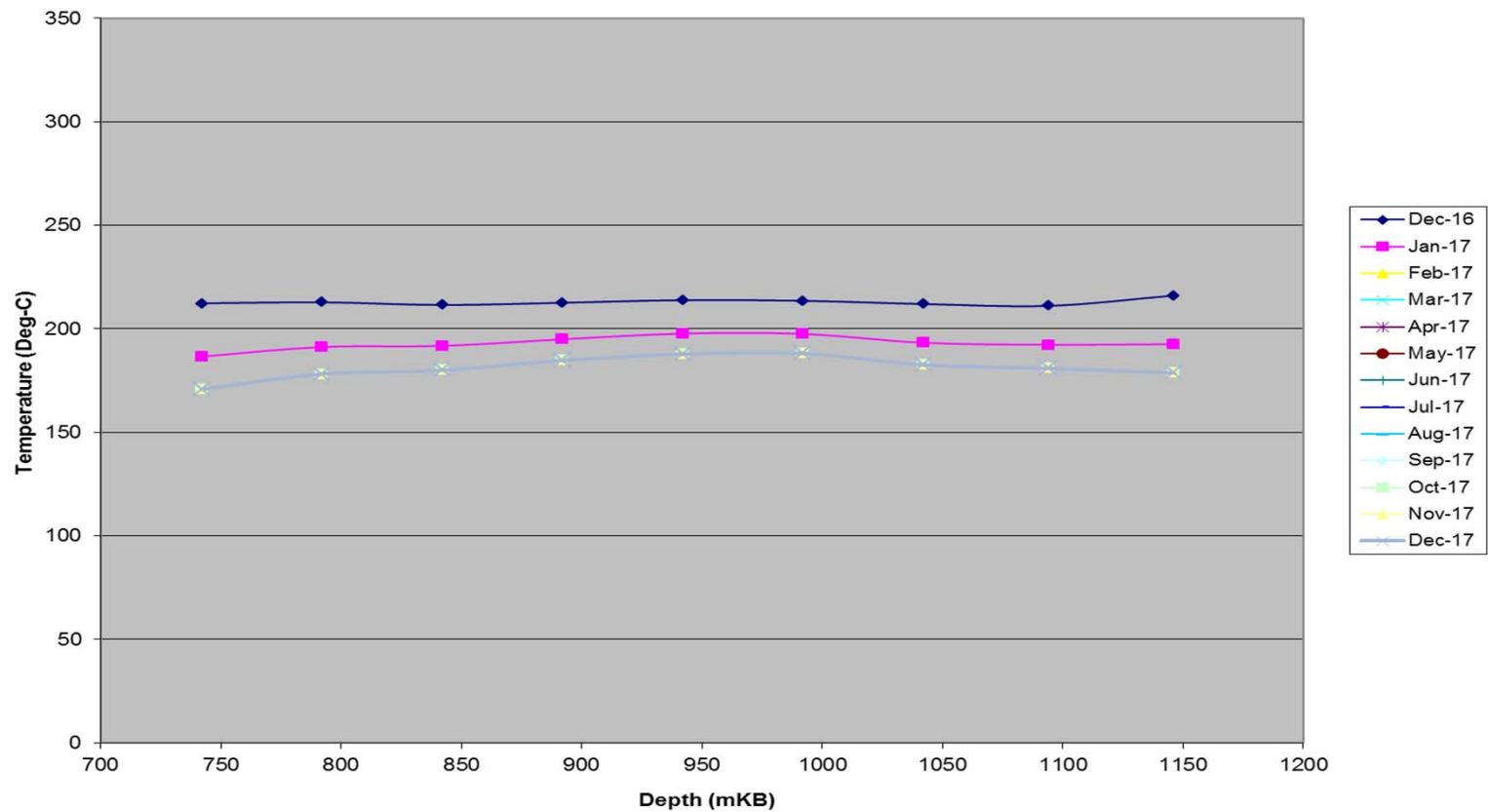
SAGD Upper and Lower/Production Wells



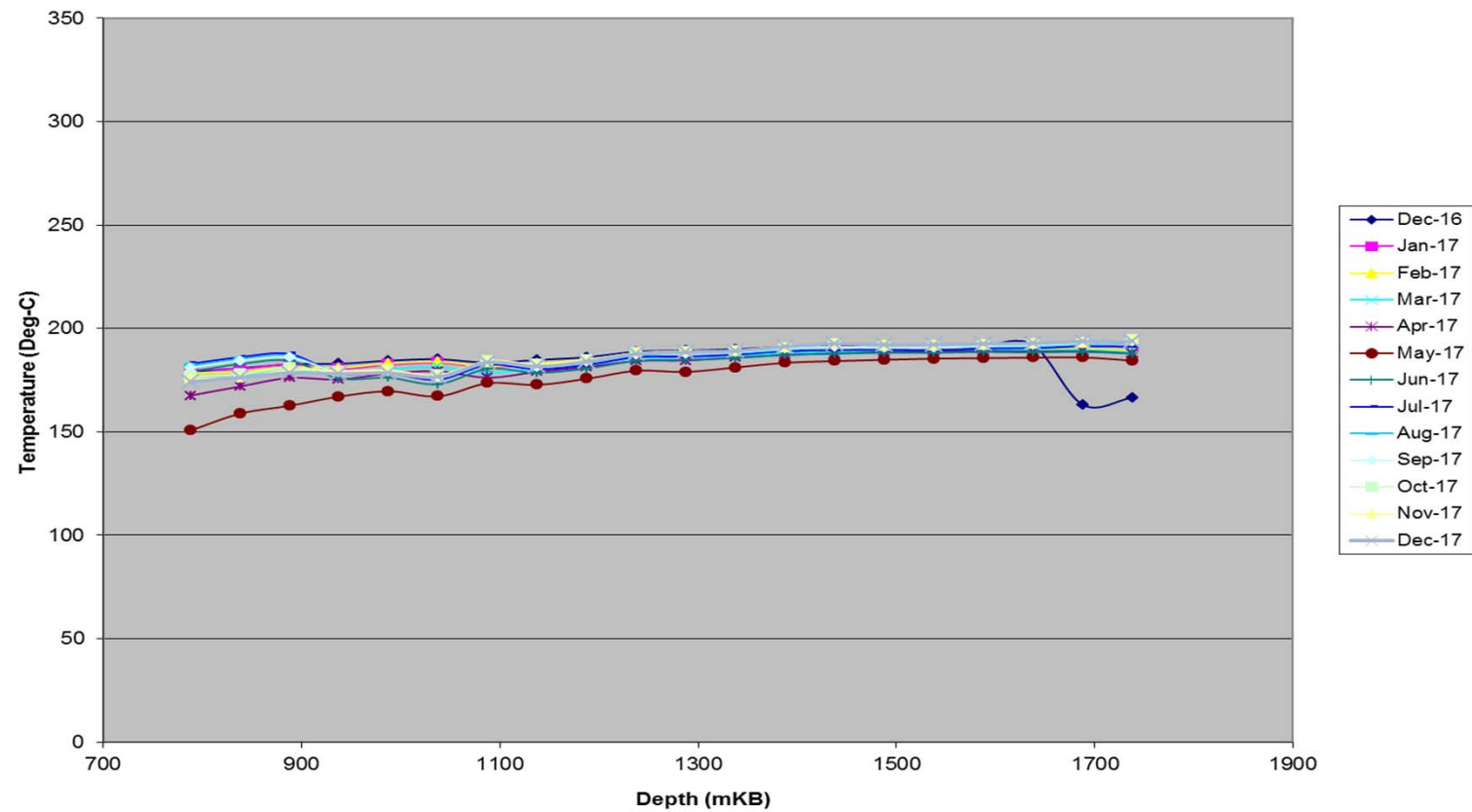
Wolf Lake MC1 Well 2L



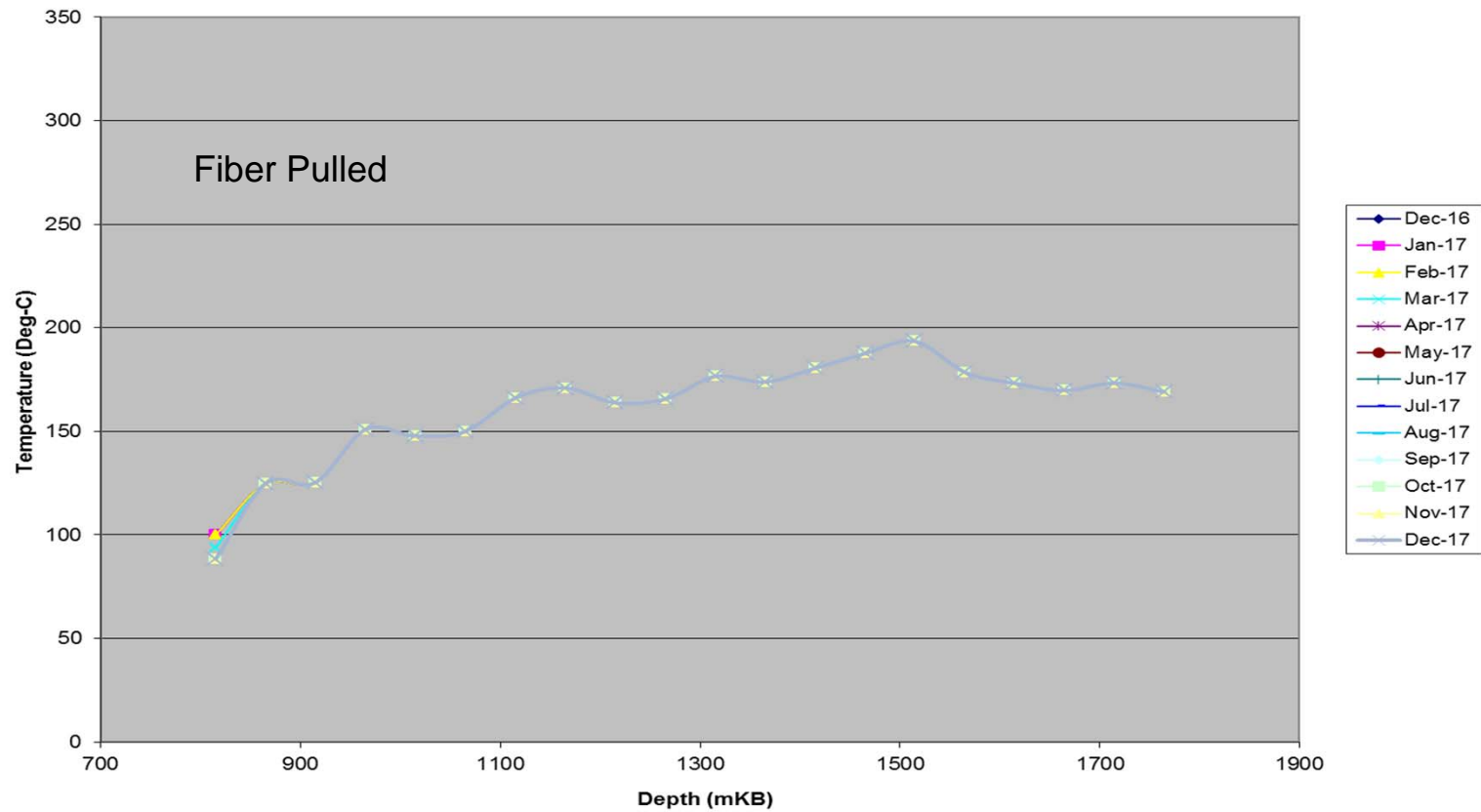
Wolf Lake MC1 Well 3L



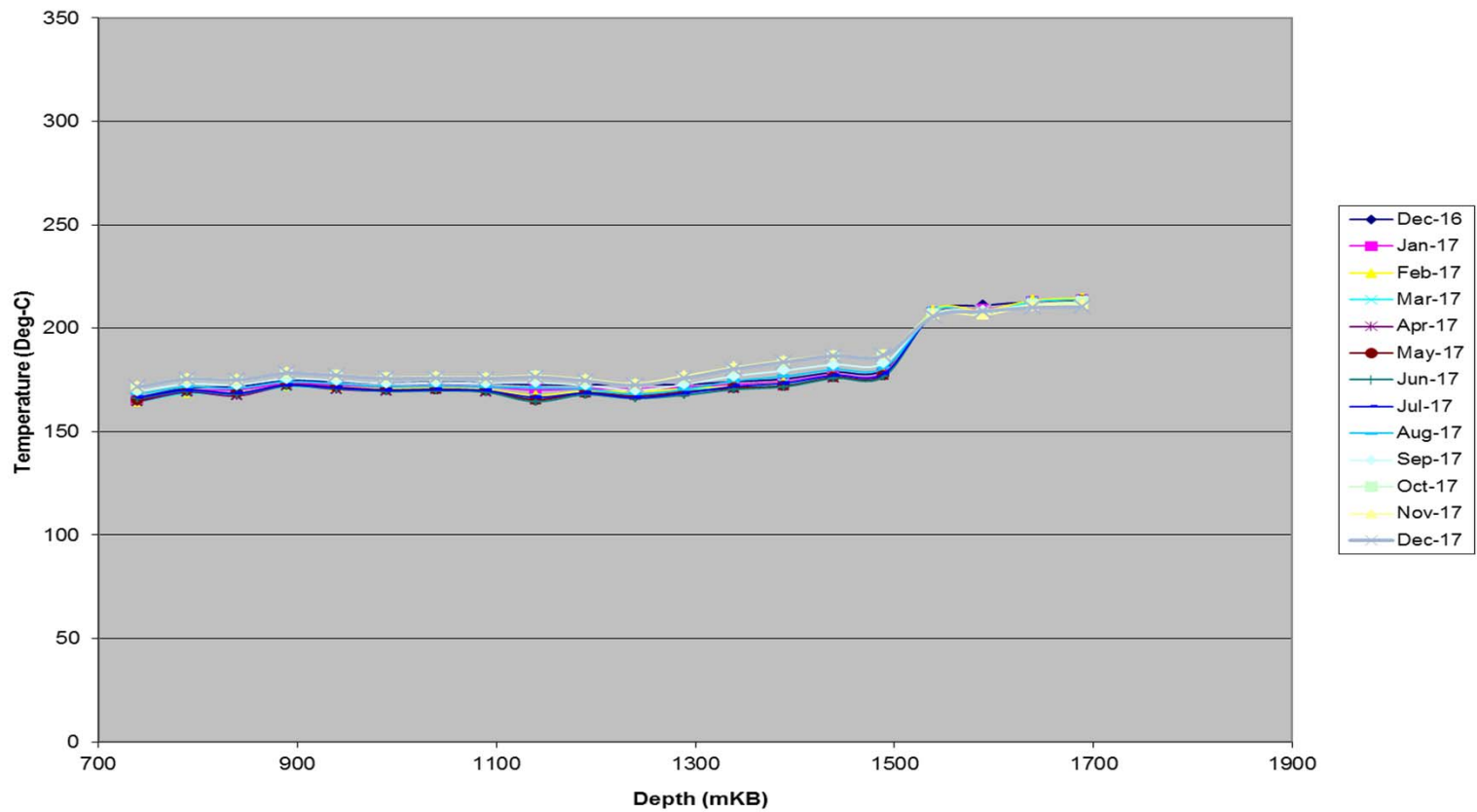
Wolf Lake MC1 Well 4L



Wolf Lake MC1 Well 5L



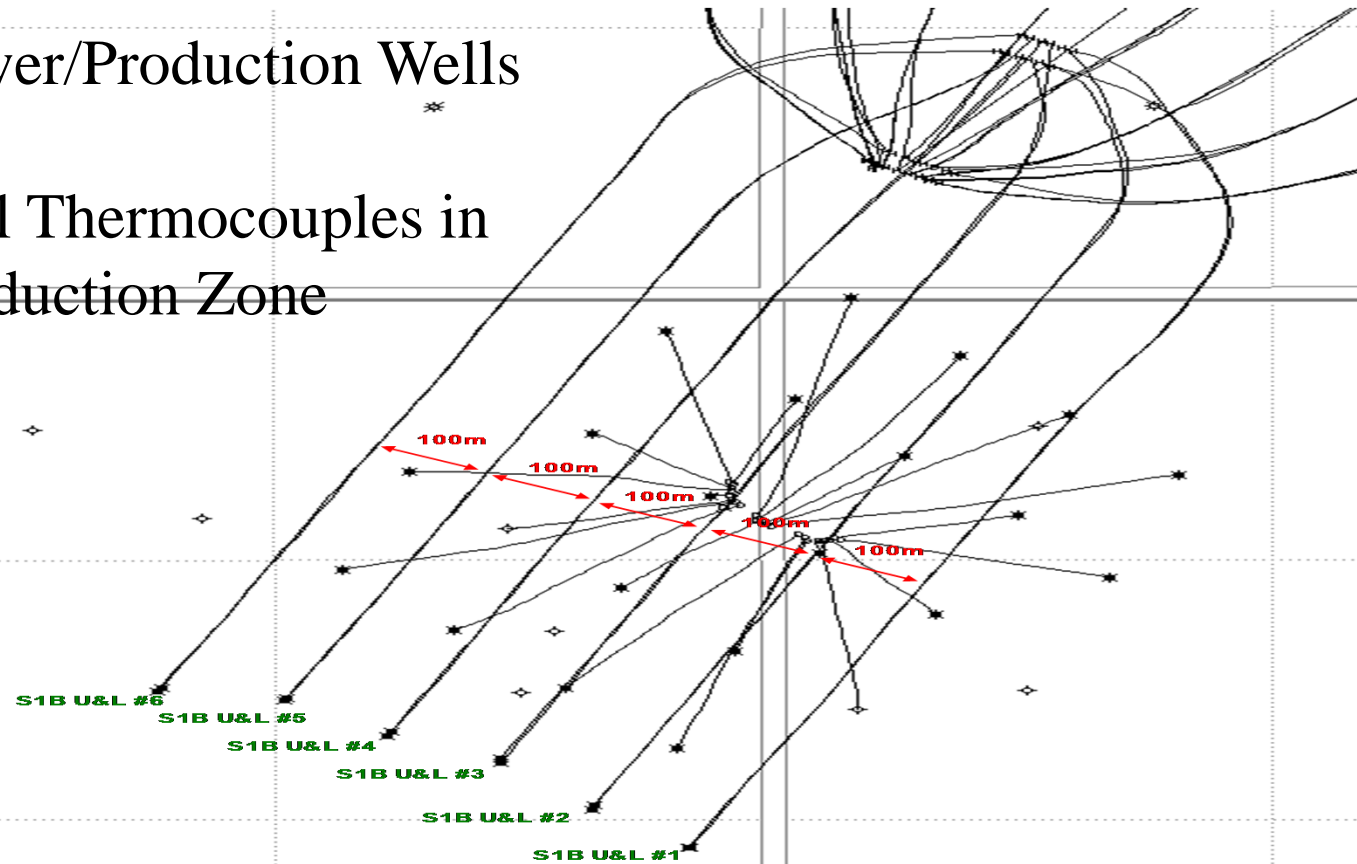
Wolf Lake MC1 Well 6L



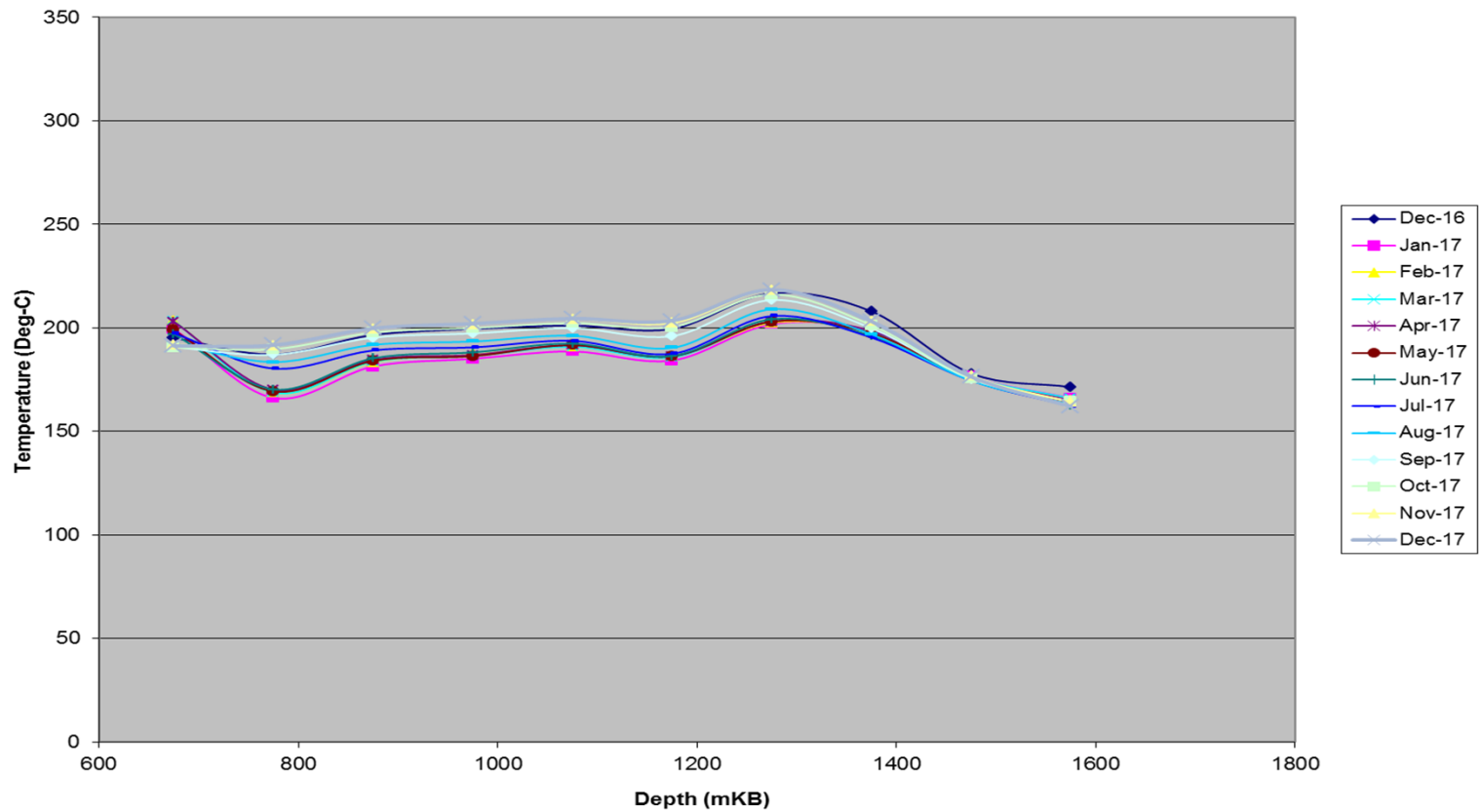
Wolf Lake S1B Temperature Data

SAGD Lower/Production Wells

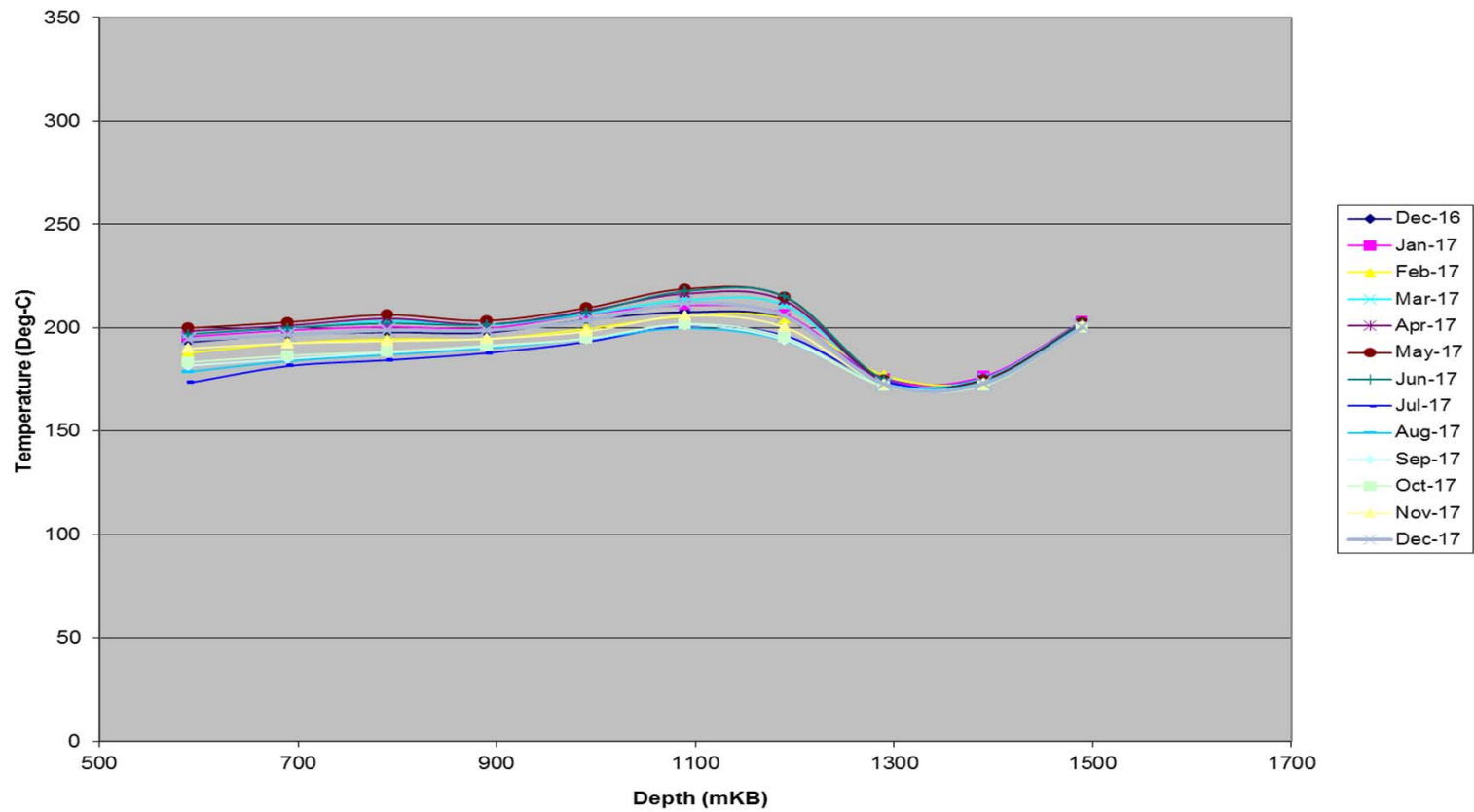
Horizontal Thermocouples in
Production Zone



Wolf Lake S1B Well 1L



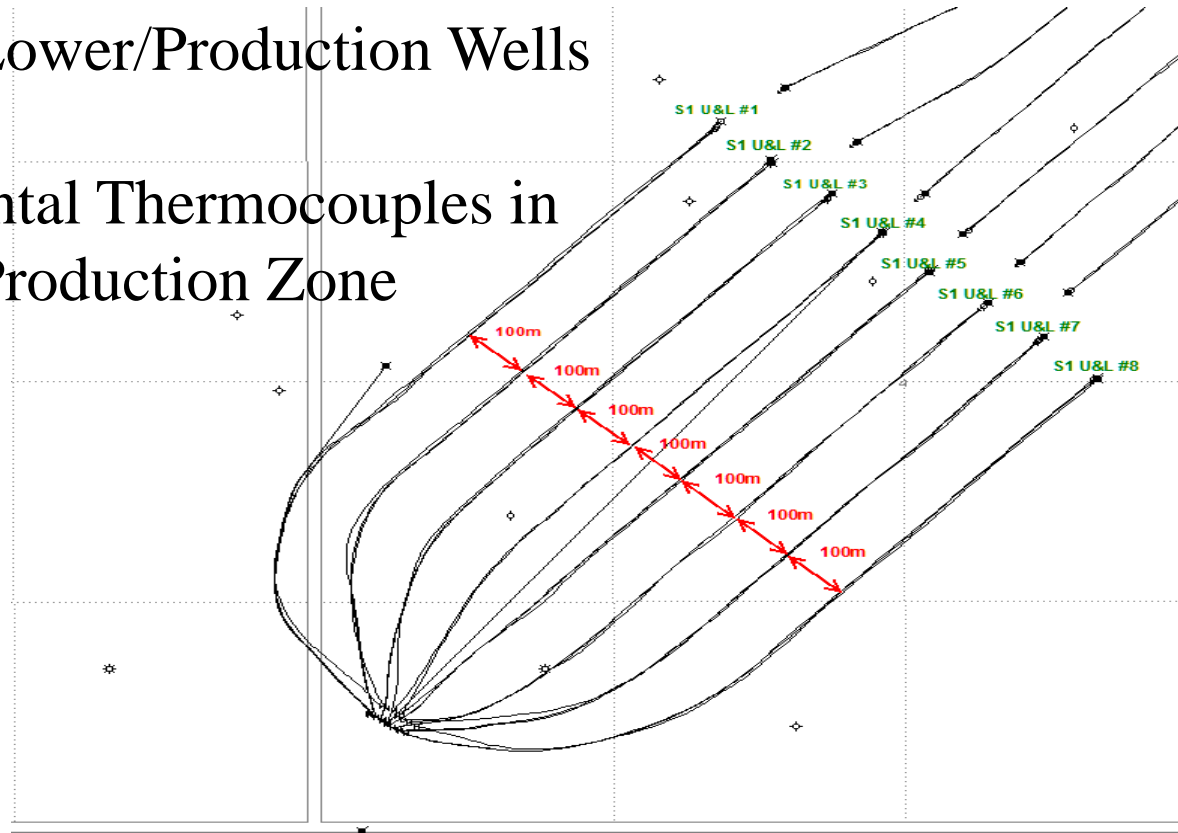
Wolf Lake S1B Well 2L



Wolf Lake S1A, Temperature Data

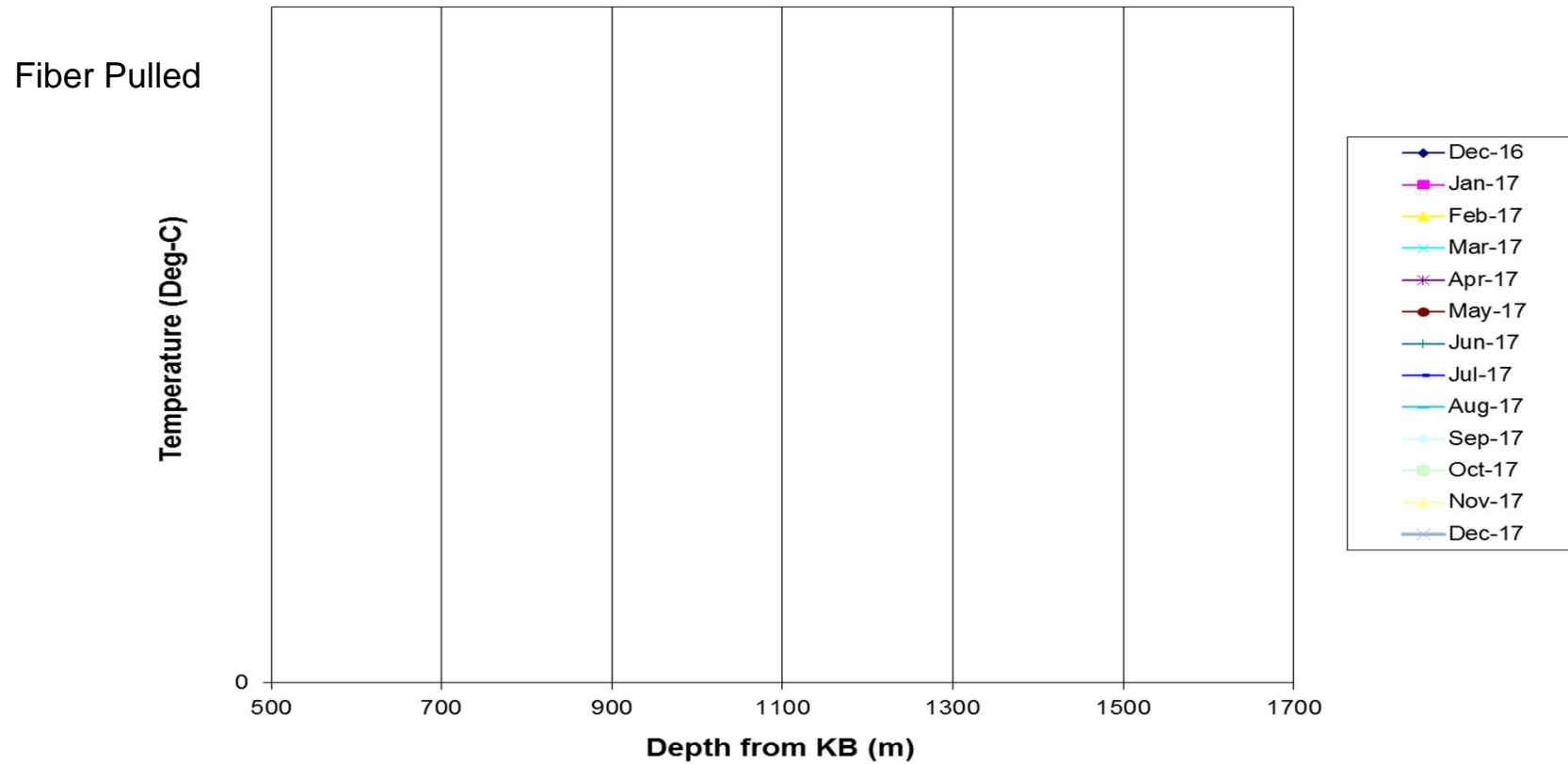
SAGD Lower/Production Wells

Horizontal Thermocouples in
Production Zone

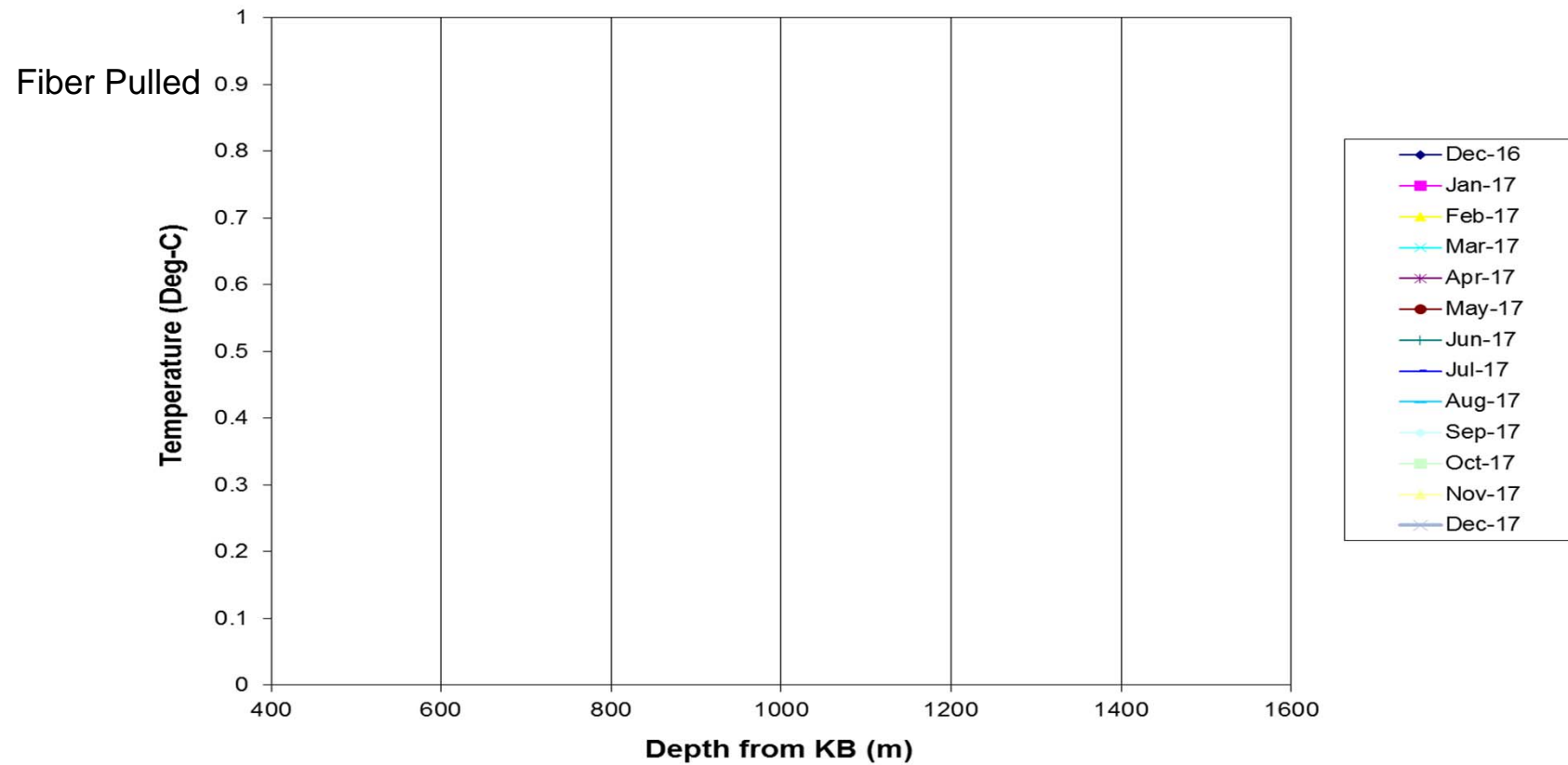


Wolf Lake S1A

Well 1L

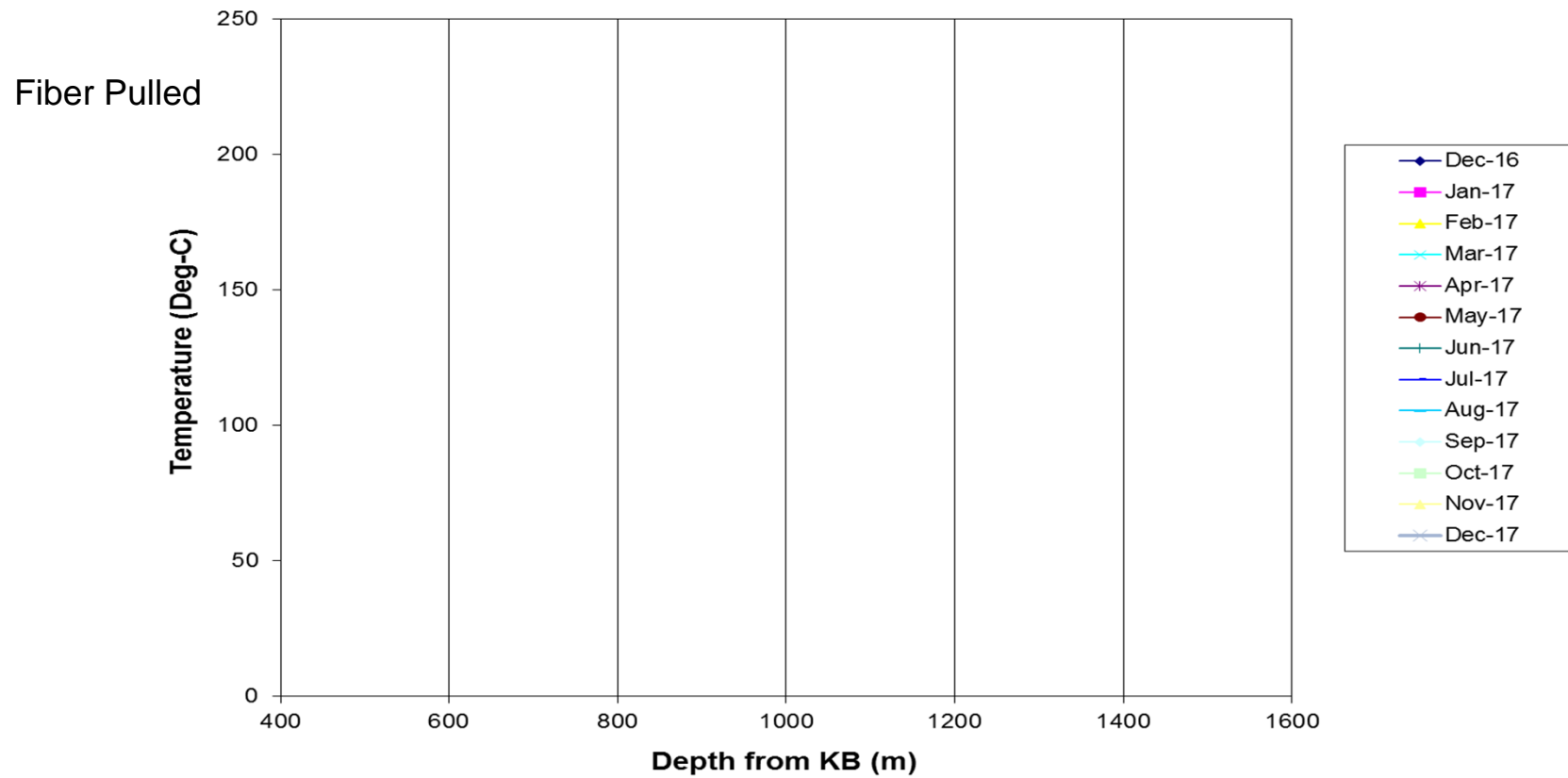


Wolf Lake S1A Well 3L



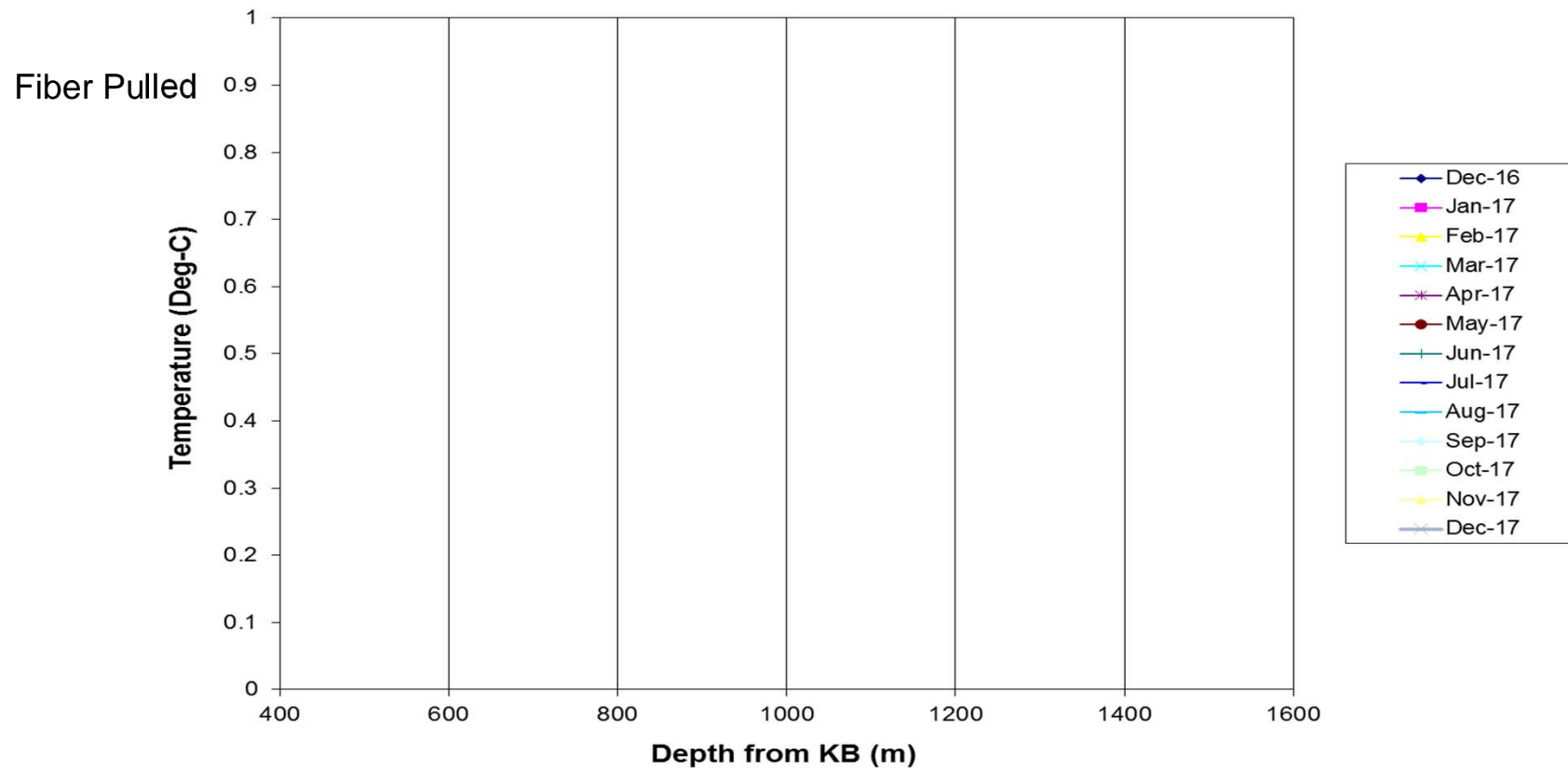
Wolf Lake S1A

Well 4L

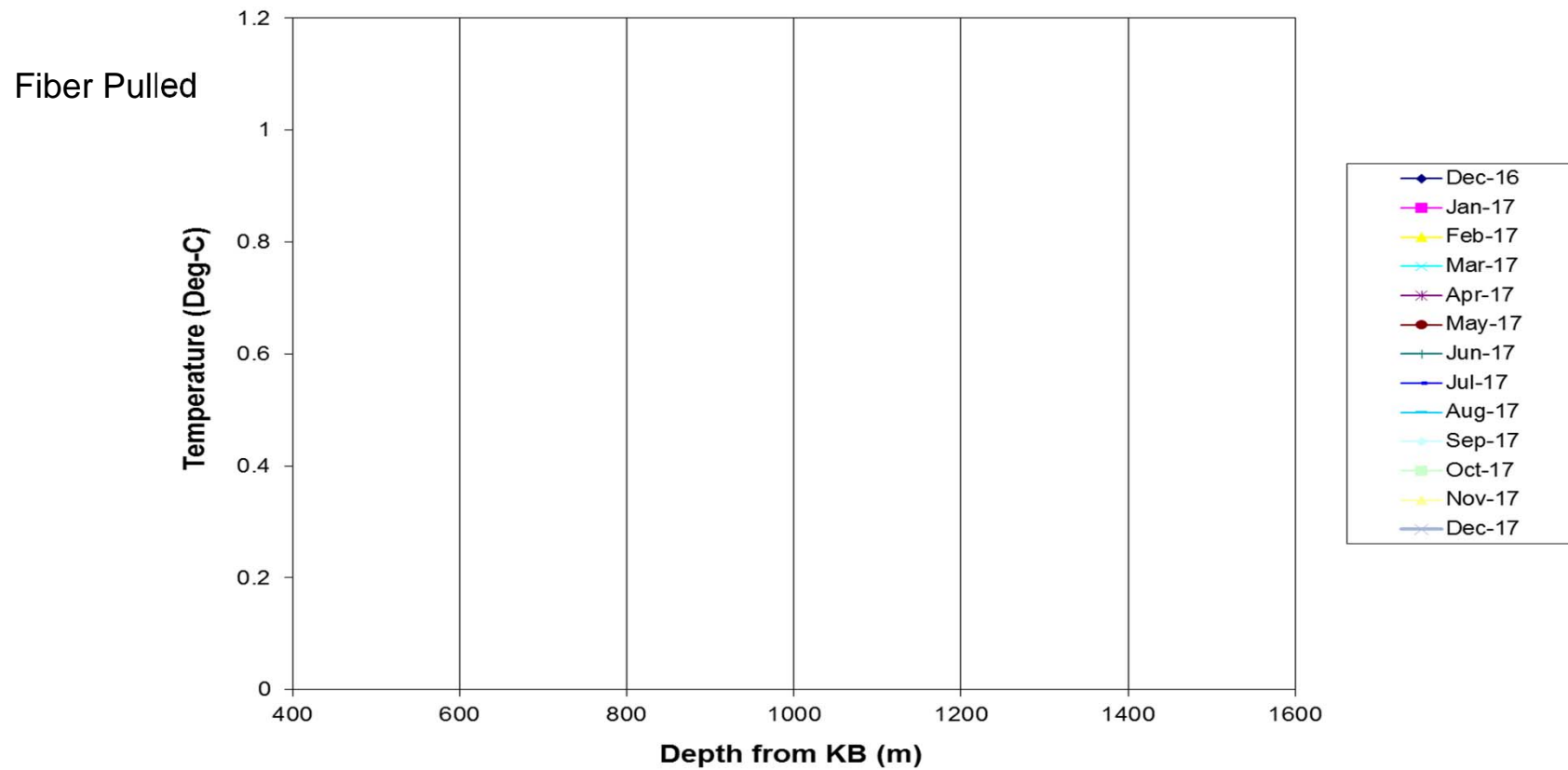


Wolf Lake S1A

Well 5L

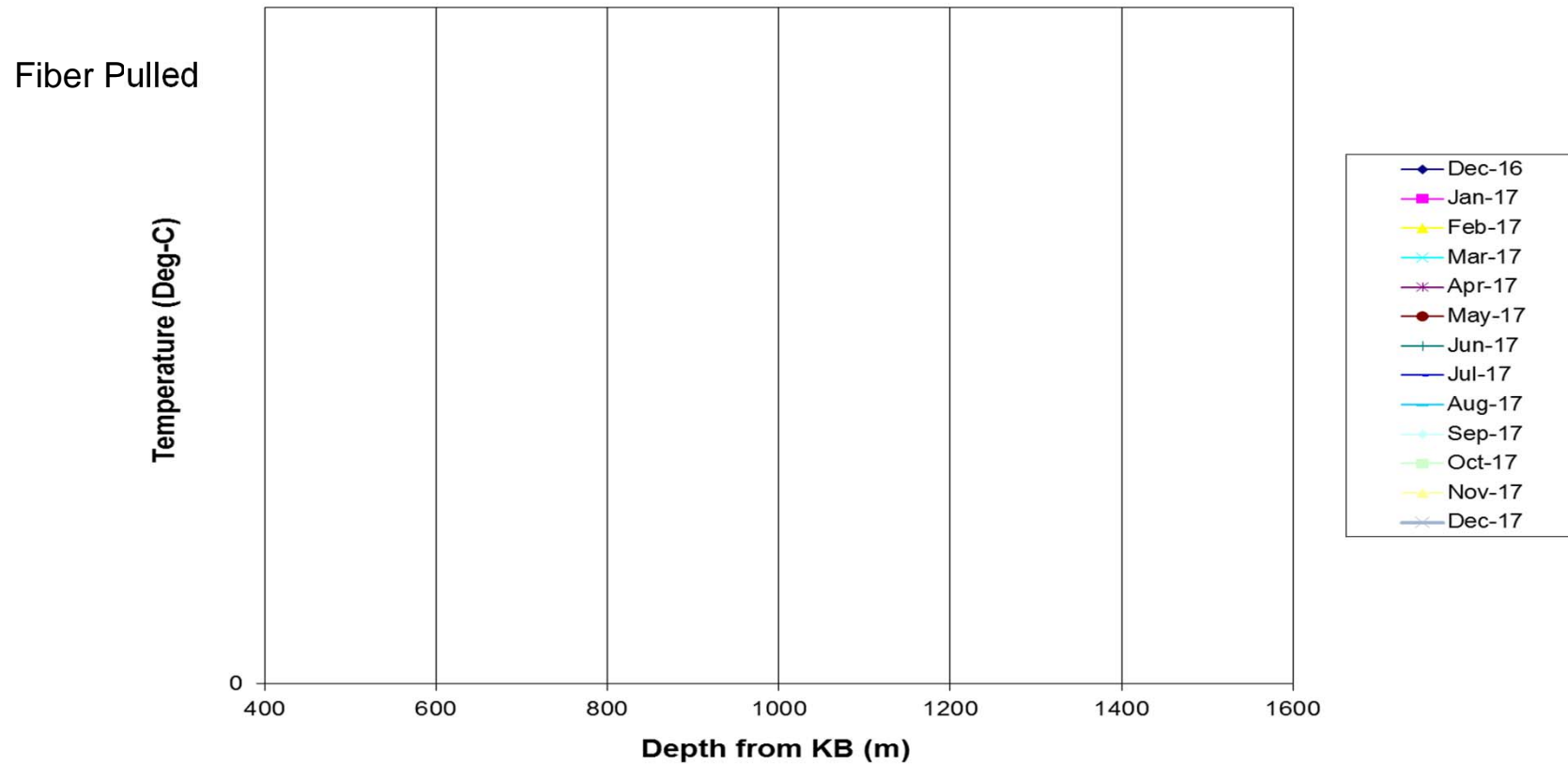


Wolf Lake S1A Well 6L

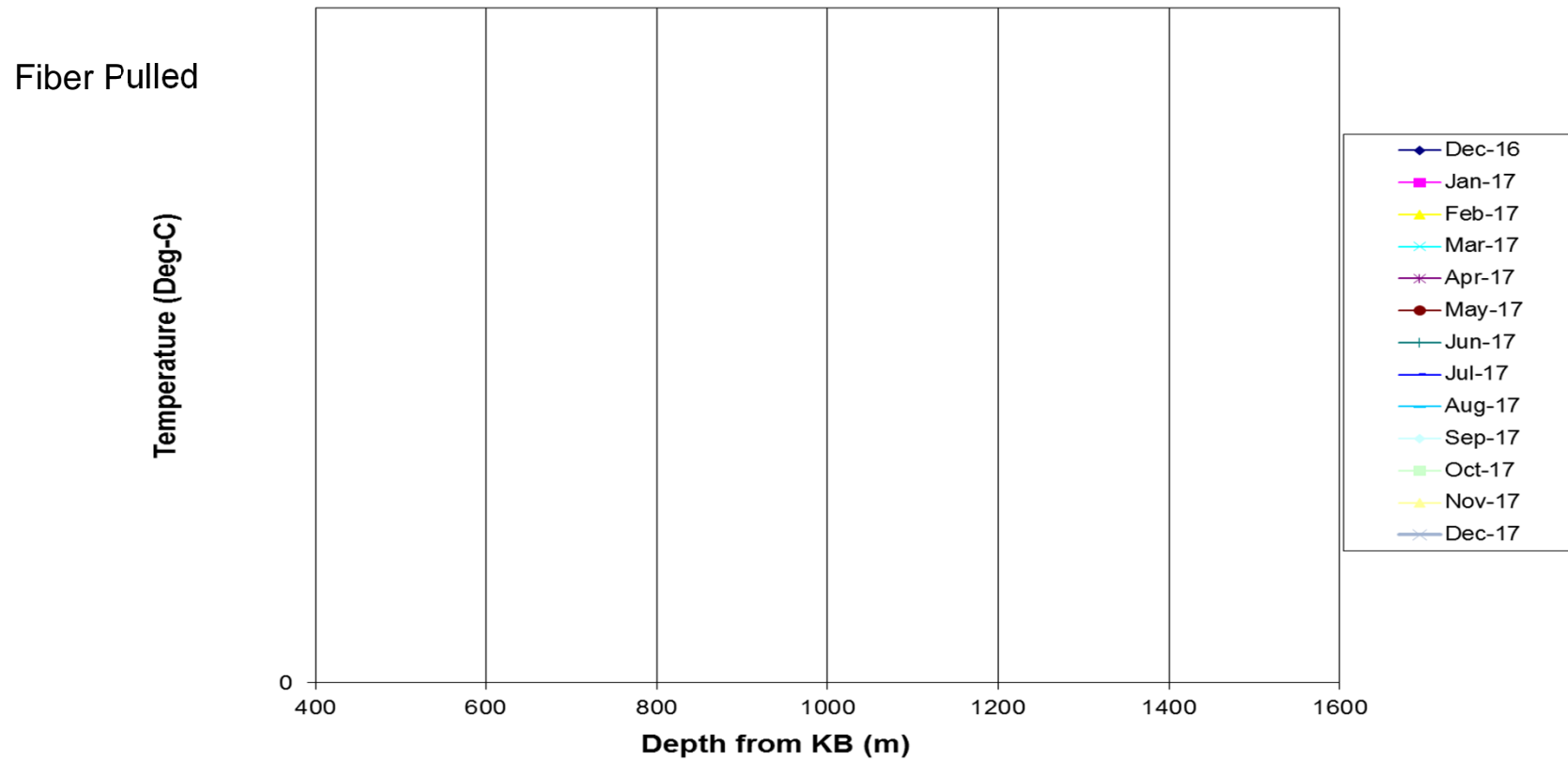


Wolf Lake S1A

Well 7L



Wolf Lake S1A Well 8L





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