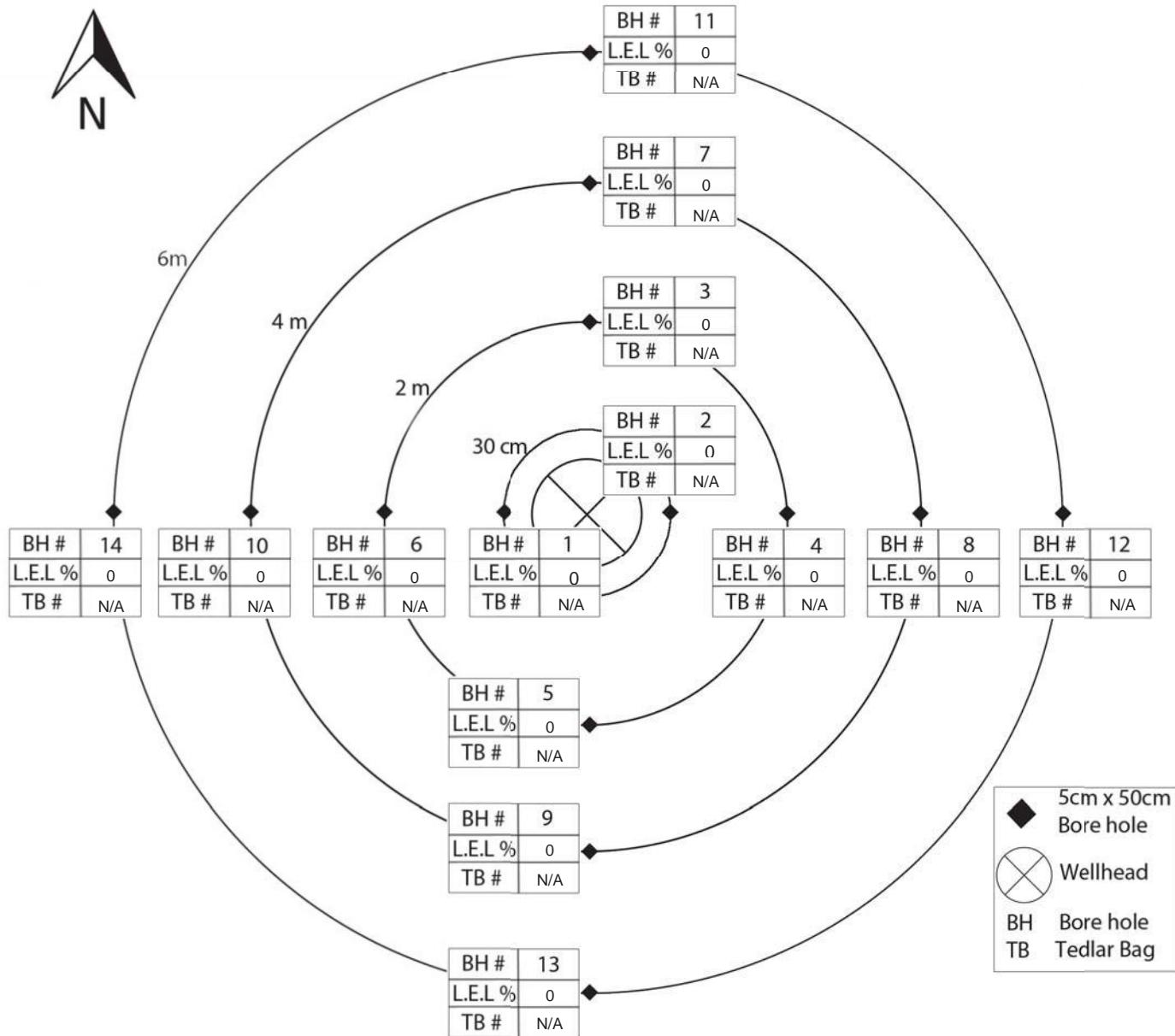


# SOIL GAS MIGRATION SURVEY

Operator Name	Date Sampled	Laboratory Number
APACHE CANADA LTD.	26-Sept -2016	
<b>Location</b>	<b>Well Name</b>	
300/A-55-6030-12345/02	APACHE AMOCO A-4 POINTED MOUNTAIN A-55	
<b>Field or Area</b>	<b>Pool or Zone</b>	<b>Sampler's Company</b>
POINTED MOUNTAIN	NOT AVAILABLE	APACHE
<b>Well License</b>	<b>Location - Approved By - Title</b>	<b>Name of Sampler</b>
N911	CALGARY - RODNEY SMITH - COMPLETION SUPERINTENDENT	BRIAN DICKSON



This sampling schematic conforms with section 5.2.1.1 of the British Columbia Oil and Gas Commission's Well Completion, Maintenance and Abandonment Guideline, Version 1.12.



## SOIL GAS MIGRATION SURVEY

TABULATED RESULTS FROM GAS MIGRATION SURVEY							Analytical Performed	
BH #	CO (ppm)	O <sub>2</sub> (%)	L.E.L. (%)	H <sub>2</sub> S (ppm) Monitor	H <sub>2</sub> S (ppm) Stain Tube	Soil Moisture (1 = wet, 5 = dry)	Component C10+	Carbon Isotope
1	0	20.9	0	0	N/A	1	N/A	N/A
2	0	20.9	0	0	N/A	1	N/A	N/A
3	0	20.9	0	0	N/A	1	N/A	N/A
4	0	20.9	0	0	N/A	1	N/A	N/A
5	0	20.8	0	0	N/A	1	N/A	N/A
6	0	20.9	0	0	N/A	1	N/A	N/A
7	0	20.9	0	0	N/A	1	N/A	N/A
8	0	20.9	0	0	N/A	1	N/A	N/A
9	0	20.9	0	0	N/A	1	N/A	N/A
10	0	20.8	0	0	N/A	1	N/A	N/A
11	0	20.9	0	0	N/A	1	N/A	N/A
12	0	20.9	0	0	N/A	1	N/A	N/A
13	0	20.9	0	0	N/A	1	N/A	N/A
14	0	20.9	0	0	N/A	1	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BT1	55	19.4	55	27	Monitor Type	GIG Instrumentation	Calibration Date	16-Sept-2016
BT2					Monitor Type		Calibration Date	

Mean Temperature on Location (Degrees Celsius)

7

Presence of Standing Water on Location? Distance from Wellhead (meters)?

Yes - 50m West and South of wellhead

Approximate Number of Days since last Rainfall?

3

### SURFACE CASING VENT FLOW ASSESSMENT

### RESULTS

Surface Casing Vent Flow (SCVF) Bubble tested?

NA

Surface Casing Vent Flow Present?

NA

If SCVF Present:	Hydrogen Sulphide (H <sub>2</sub> S) Present?	No
	Hydrocarbon Liquid present in flow?	N/A
	Water present in flow causing potential soil or groundwater contamination?	No
	SCVF due to casing or wellhead seal failure?	N/A
	Is the flow a fire, public safety or environmental hazard?	N/A
	Stabilized Flow Rate > 300 m <sup>3</sup> /d?	N/A
	Flowrate of SCVF (m <sup>3</sup> /d)	N/A
	Shut In Pressure of SCV (kPa) after 24hr shut in period?	N/A
	Depth of Surface Casing (m)?	762 mKB
	Threshold Pressure to classify SCVF as Serious (11kPa x Surface Casing Depth)	N/A
Is SCV Shut in Pressure > Threshold Pressure?		N/A
Is the SCVF "Serious" or "Not Serious"?		N/A
(Note: If Answered "Yes" to any of the above 7 questions then the flow must be deemed as "Serious")		

**Notes:** No visible vegetation distress observed in area around wellhead.