



CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING



GAS ANALYSIS

Company Chevron Standard Limited Page 1 of 1
 Well _____ File 921-1331
 Field _____ Analyst PB
 Location _____ Elevation: K.B. _____ Grd. _____
 Formation _____ Depth _____
 Sampled from E. Porc. #7 by _____
 Sampling pressure _____ psig Sampling temp. _____ °F Ambient temp. _____ °F
 Date sampled _____ Date received Apr. 30/71 Date analysed Apr. 30/71
 Container pressure 6 psig Mud _____ Water cushion _____
 Recovery or flowrate: _____

<u>COMPONENT</u>	<u>MOLE %</u>	<u>IMP. GPM @ 14.65 psia and 60°F</u>	<u>SPECIFIC GRAVITY</u>
Hydrogen	_____	_____	Calculated <u>.636</u> Measured _____
Helium	_____	_____	
Nitrogen	<u>.38</u>	_____	<u>GROSS B.T.U. per SCF</u> <u>1061.8</u>
Carbon Dioxide	<u>4.64</u>	_____	Calculated @ 14.65 psia, 60°F, moisture and acid - gas free.
Hydrogen Sulphide	<u>.00</u>	_____	
Methane	<u>89.96</u>	_____	<u>VAPOR PRESSURE of PENTANES PLUS</u>
Ethane	<u>3.61</u>	_____	(calculated) <u>12.4 psia @ 100°F</u>
Propane	<u>.78</u>	<u>.178</u>	Pseudo Critical Pressure <u>690.7</u> psia
Iso Butane	<u>.18</u>	<u>.049</u>	Pseudo Critical Temperature <u>366.0</u> °R
Normal Butane	<u>.20</u>	<u>.052</u>	
Iso Pentane	<u>.09</u>	<u>.027</u>	
Normal Pentane	<u>.06</u>	<u>.018</u>	Remarks <u>Cylinder #C-169</u>
Hexanes	<u>.06</u>	<u>.020</u>	
Heptanes Plus	<u>.04</u>	<u>.015</u>	
Total	<u>100.00</u>	<u>.359</u>	
Pentanes Plus		<u>.080</u>	

2A-3
"ELK"

SOBC. E. Porcupine YT I-13

CORE LABORATORIES - CANADA, LTD.
Petroleum Reservoir Engineering
CALGARY, ALBERTA

Company SOBC W.M.E. PORCUPINE Formation BLACKIE Page 1 of

Well ELK Date Report File 913-181

Field, Province D. Fluid Analysts SAMPLES 10-24

Location Analysis CORE #1 Remarks DRIES ONLY

DEPTH - 3658-3718

CORE ANALYSIS RESULTS
(Figures in parentheses refer to footnote remarks)

Depth Feet	Ft. Rep.	Permeability Millidarcys			Perm. Ft.	Porosity Percent	Porosity Feet	Density		Residual Saturation		Visual Examination
		K Max	K 90°	KV				Bulk	Grain	Oil % Pore	Total water % Pore	
		CORE #					(Rec. 51) (12 Boxes)					
1	3.9											DENSE SILTY & SHALY
2	0.9	0.03	0.03	10.01	0.03	4.9	4.41	2.52	2.65			FS SHALY
3	2.5											DENSE SILTY & SHALY
4	1.3											SHALE
5	1.0											DENSE SILTY
6	1.9											SHALE
7	5.5											DENSE SILTY & SHALY
8	1.6	0.04	0.04	10.01	0.06	5.9	9.44	2.51	2.67			FS SHALY
9	1.3	0.84	0.57	0.16	1.09	7.3	9.49	2.44	2.64			FS F
10	1.4	0.65	0.61	0.03	0.91	6.2	8.68	2.46	2.62			FS SHALY
11	1.4	1.02	0.93	0.13	1.43	7.6	10.64	2.42	2.62			FS
12	1.6	0.67	0.41	0.05	1.07	7.1	11.36	2.43	2.62			FS SHALY
13	2.0	0.94	0.85	0.15	1.38	7.2	11.46	2.45	2.64			FS SHALY
14	1.6	1.03	0.66	0.03	1.65	6.3	10.08	2.48	2.65			FS SHALY
15	1.4	0.33	0.33	10.01	0.46	6.5	9.10	2.48	2.65			FS SHALY
16	5.8											DENSE SILTY & SHALY
17	1.5											SHALE
18	1.0	14.76	14.36	0.97		8.2		2.47	2.67	5.1	15.3	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories - Canada Ltd. (all errors and omissions excepted); but Core Laboratories - Canada Ltd. and its officers and employees, assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used.

CORE LABORATORIES - CANADA, LTD.
Petroleum Reservoir Engineering
CALGARY, ALBERTA

Company Formation Page 2 of

Well CHEVRON Date Report File 913-181

Field, Province D. Fluid Analysts

Location Analysis Remarks SAMPLES 10-24
PRIED ONLY

CORE ANALYSIS RESULTS
(Figures in parentheses refer to footnote remarks)

Depth Feet	Ft. Rep.	Permeability Millidarcys			Perm. Ft.	Porosity Percent	Porosity Feet	Density		Residual Saturation		Visual Examination
		K Max	K 90°	KV				Bulk	Grain	Oil % Para	Total water % Para	
11	1.4	8.44	6.82	3.66		10.1		2.35	2.62	6.7	18.5	
12	1.0	18.51	18.51	2.86		10.2		2.34	2.61	15.5	23.2	
13	1.2	21.90	14.62	1.70		9.3		2.39	2.63	12.5	19.7	
14	1.3	12.02	10.73	0.83		8.7		2.40	2.63	9.1	20.5	
15	1.3	4.76	4.65	0.39		7.8		2.43	2.63	8.9	22.4	
16	1.2	4.65	3.27	0.48		7.8		2.44	2.64	12.7	25.5	
	0.8											DENSE SILTY
17	1.2	0.46	0.39	0.06		6.3		2.48	2.65	16.5	25.9	
18	1.5	0.61	0.23	0.08		7.2		2.44	2.63	10.7	21.4	
19	1.4	0.30	0.22	<0.01		7.0		2.45	2.63	12.3	17.2	
20	1.3	0.17	0.17	<0.01		6.7		2.46	2.63	17.7	22.7	
21	1.0	0.60	0.35	<0.01		5.9		2.48	2.63	18.1	28.4	
22	1.3	1.18	1.00	<0.01		6.7		2.48	2.65	16.2	25.5	
23	0.8	0.11	0.11	<0.01		5.6		2.49	2.64	13.5	27.1	
	1.0											SHALE
24	0.9	0.17	0.14	<0.01		5.7		2.50	2.65	0.0	20.0	
	0.8											DENSE SILTY

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories - Canada Ltd. (all errors and omissions excepted) but Core Laboratories - Canada Ltd. and its officers and employees, assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or land in connection with which such report is used.