

XI TECHNOLOGIES – PRODUCTION REPORT (R-T and R-C)

Nal Sylvan Lake 14-14-37-3

Operator Nal Resources Limited
 Field Sylvan Lake
 Zone/Pool PEKISKO D
 Status Abandoned & Whipstocked Crude Oil
 First Prod. Feb 1988

00/14-14-37-3W5/00

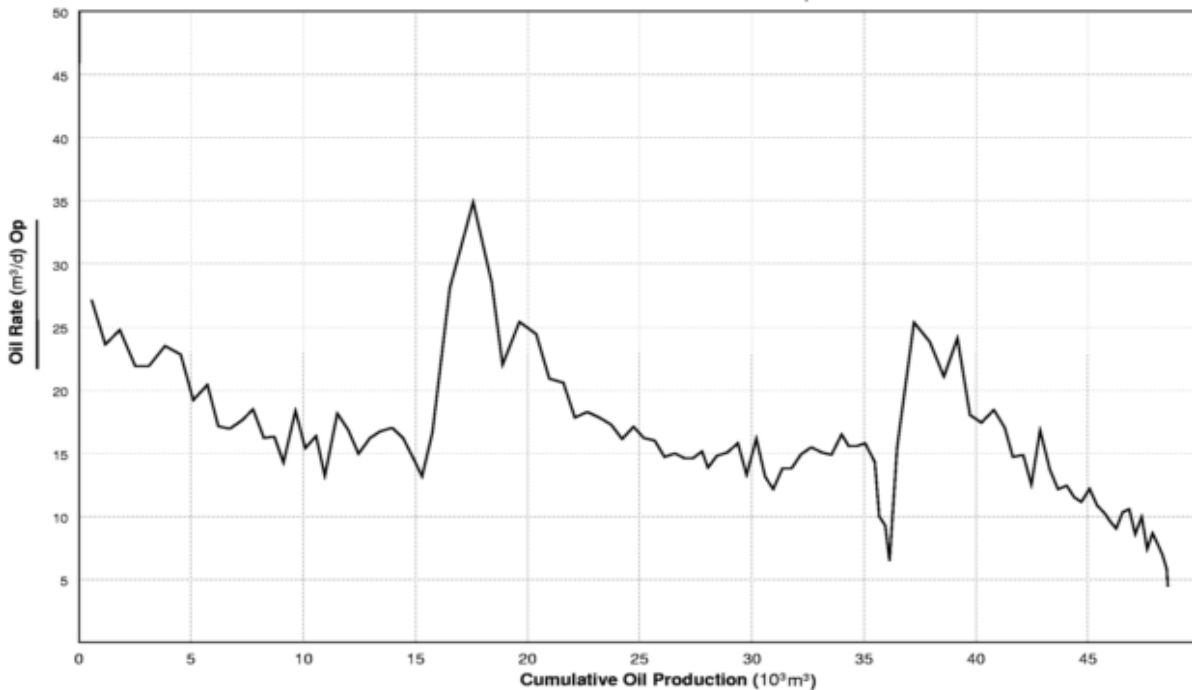
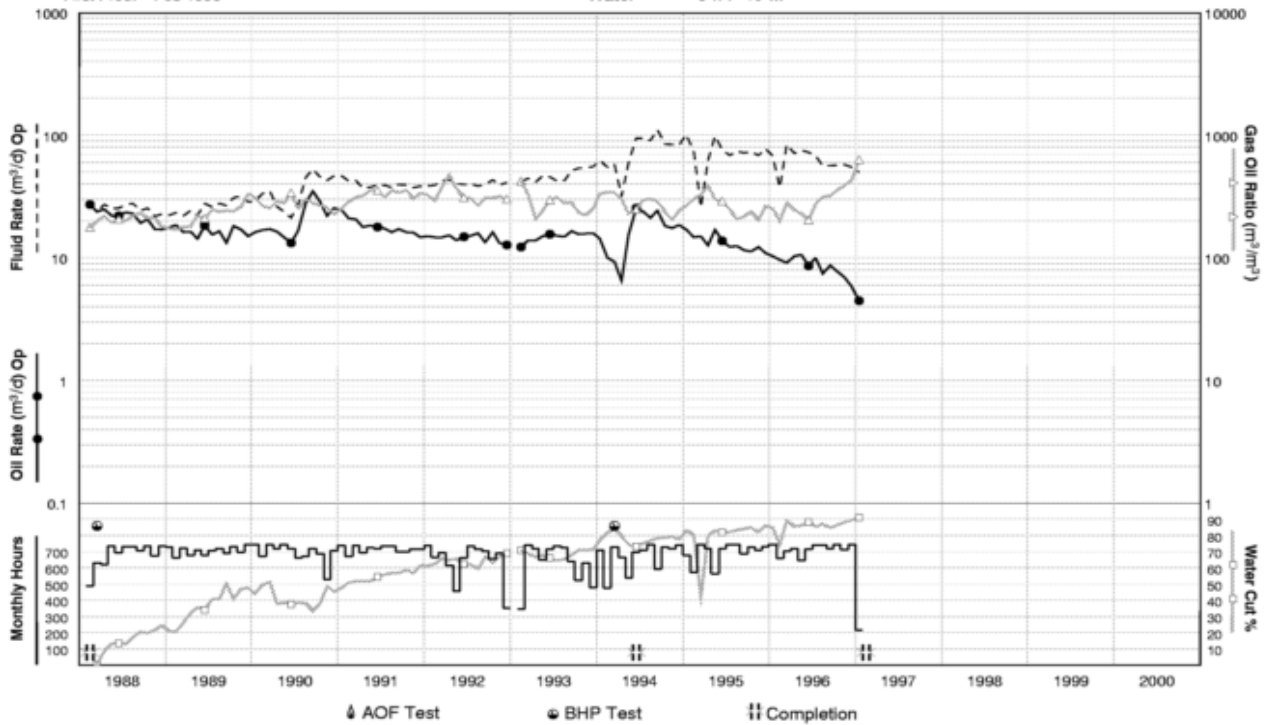
Rate-Time & Rate-Cumulative Graphs

Cumulative Production to Jan 1997

Oil 48.5 10^3m^3
 Gas 13.1 10^6m^3
 Water 94.4 10^3m^3

Six Month Prod to Jan 1997 Jan 1997

Fluid Rate (m^3/d)	55.8	49.4
Oil Rate (m^3/d)	7.1	4.4
Gas Rate ($10^3\text{m}^3/\text{d}$)	2.6	2.8
GOR (m^3/m^3)	364.3	625.0
WGR ($\text{m}^3/10^3\text{m}^3$)	18.7	16.2



Data provided by Divestco Inc.

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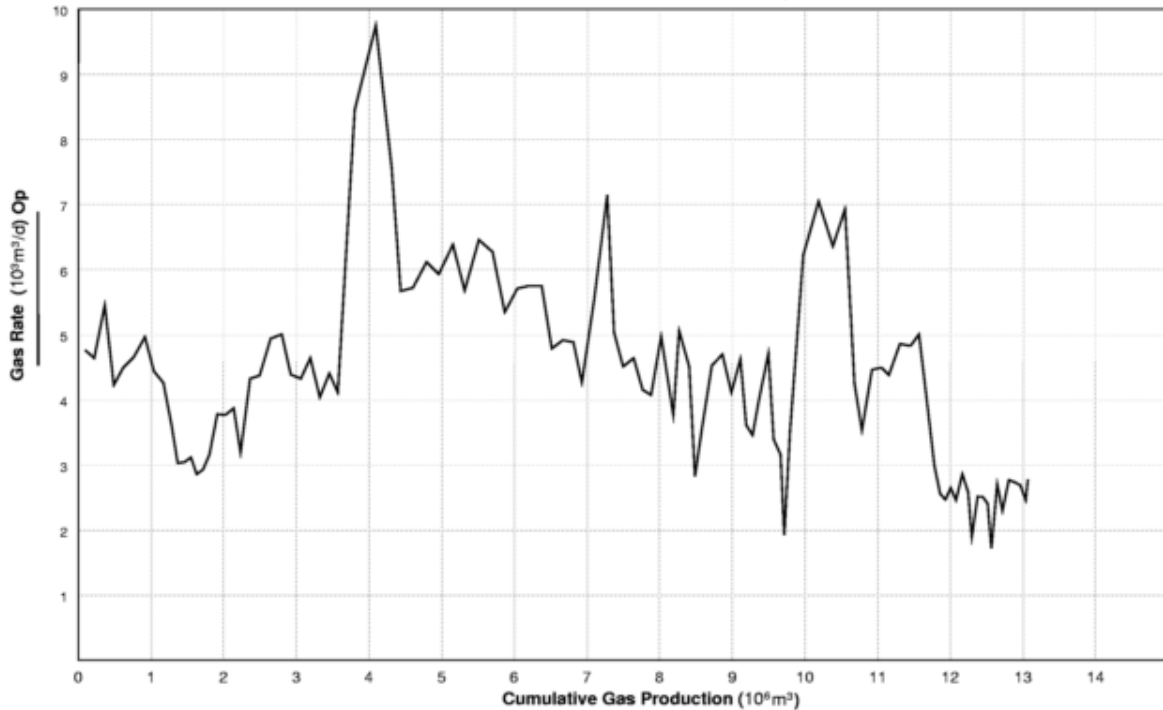
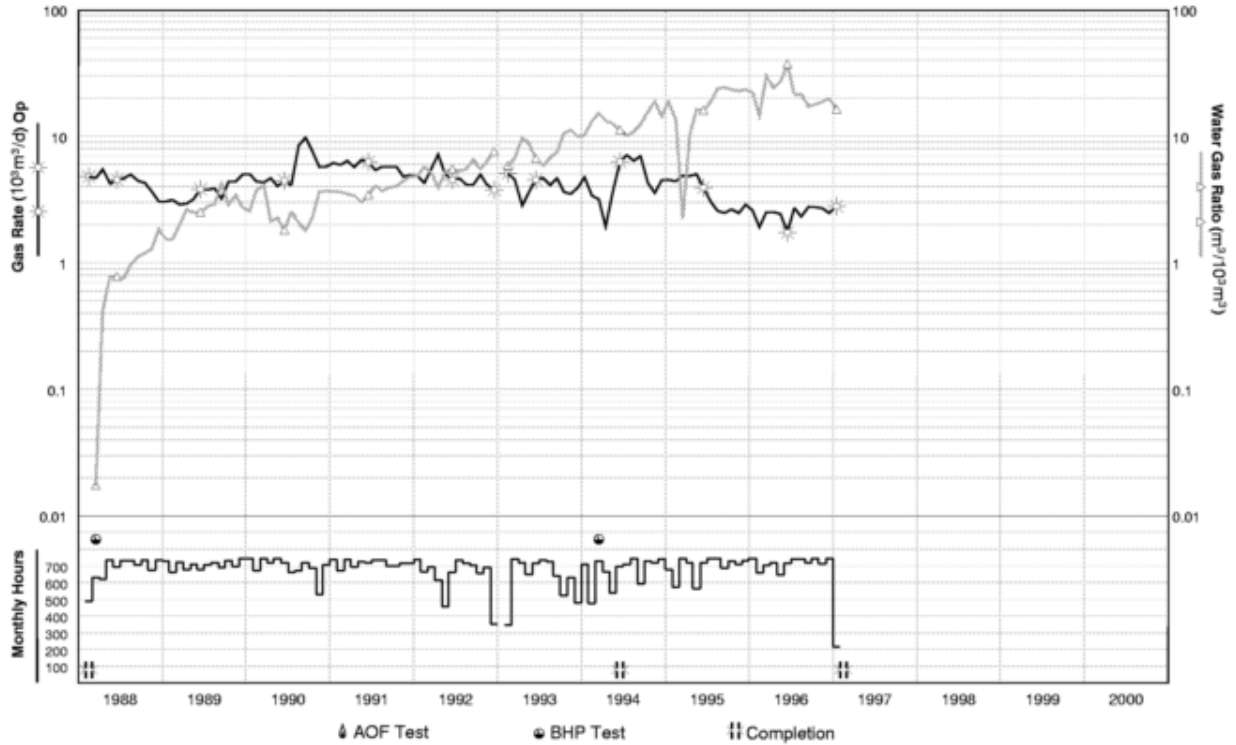
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Well Name Nal Sylvan Lake 14-14-37-3
 Operator Nal Resources Limited
 Field Sylvan Lake
 Zone/Pool PEKISKO D

00/14-14-37-3W5/00
Production History

Status Abandoned & Whipstocked Crude
 First Prod Feb 1988
 Last Prod Jan 1997

Date	Prod		Daily Oil Production				Daily Gas Production				Cumulative Production						
	Days	Hours	Oil	Gas	Water	Cond	Prod Day	Cal Day	WCut	GOR	Prod Day	Cal Day	WGR	Oil	Gas	Water	Cond
			m ³	10 ³ m ³	m ³	m ³	m ³	m ³	%	m ³ /m ³	10 ³ m ³	10 ³ m ³	m ³ /10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
Feb 1988	20.3	488	552.1	96.8	----	----	27.2	19.0	----	175	4.8	3.3	----	0.55	0.10	----	----
Mar 1988	26.2	629	618.3	121.5	2.1	----	23.6	19.9	0.3	197	4.6	3.9	0.0	1.17	0.22	0.00	----
Apr 1988	25.8	620	639.4	140.9	58.5	----	24.8	21.3	8.4	220	5.5	4.7	0.4	1.81	0.36	0.06	----
May 1988	30.6	735	670.9	129.4	100.0	----	21.9	21.6	13.0	193	4.2	4.2	0.8	2.48	0.49	0.16	----
Jun 1988	29.0	695	633.7	130.0	99.9	----	21.9	21.1	13.6	205	4.5	4.3	0.8	3.11	0.62	0.26	----
Jul 1988	30.5	732	716.9	142.1	106.5	----	23.5	23.1	12.9	198	4.7	4.6	0.7	3.83	0.76	0.37	----
Aug 1988	30.4	730	693.3	151.1	144.3	----	22.8	22.4	17.2	218	5.0	4.9	1.0	4.52	0.91	0.51	----
Sep 1988	29.4	705	563.3	130.4	145.4	----	19.2	18.8	20.5	231	4.4	4.3	1.1	5.09	1.04	0.66	----
Oct 1988	30.6	735	624.5	130.5	154.9	----	20.4	20.1	19.9	209	4.3	4.2	1.2	5.71	1.17	0.81	----
Nov 1988	28.1	674	481.1	101.9	130.0	----	17.1	16.0	21.3	212	3.6	3.4	1.3	6.19	1.27	0.94	----
Dec 1988	30.6	735	517.6	92.7	168.7	----	16.9	16.7	24.6	179	3.0	3.0	1.8	6.71	1.37	1.11	----
1988	311.6	7478	6711.1	1367.3	1110.3	----	21.5	20.0	14.2	204	4.4	4.1	0.81	6.71	1.37	1.11	----
Jan 1989	30.3	727	532.1	92.1	139.4	----	17.6	17.2	20.8	173	3.0	3.0	1.5	7.24	1.46	1.25	----
1989	352.6	8463	5751.3	1277.0	3417.9	----	16.3	15.8	37.3	222	3.6	3.5	2.68	12.46	2.64	4.53	----
1990	346.7	8321	7168.6	1960.5	5070.4	----	20.7	19.6	41.4	273	5.7	5.4	2.59	19.63	4.60	9.60	----
1991	357.8	8587	6471.4	2060.5	7697.2	----	18.1	17.7	54.3	318	5.8	5.6	3.74	26.10	6.67	17.30	----
1992	320.2	7685	4669.5	1526.8	8206.4	----	14.6	12.8	63.7	327	4.8	4.2	5.37	30.77	8.19	25.50	----
1993	287.7	6905	4289.3	1169.1	9139.7	----	14.9	12.8	68.1	273	4.1	3.5	7.82	35.06	9.36	34.64	----
1994	335.4	8049	5749.5	1564.4	19759.7	----	17.1	15.8	77.5	272	4.7	4.3	12.63	40.81	10.93	54.40	----
1995	347.6	8343	4587.5	1244.0	20219.2	----	13.2	12.6	81.5	271	3.6	3.4	16.25	45.40	12.17	74.62	----
Feb 1996	27.4	658	262.0	51.9	754.5	----	9.6	9.0	74.2	198	1.9	1.8	14.5	45.98	12.30	77.15	----
Mar 1996	29.3	702	263.6	73.5	2178.5	----	9.0	8.5	89.2	279	2.5	2.4	29.6	46.24	12.37	79.32	----
Apr 1996	30.0	719	308.0	75.2	1803.4	----	10.3	10.3	85.4	244	2.5	2.5	24.0	46.55	12.45	81.13	----
May 1996	25.9	646	283.8	64.7	1745.6	----	10.5	9.2	86.0	228	2.4	2.1	27.0	46.83	12.51	82.87	----
Jun 1996	29.8	716	255.4	51.2	1894.5	----	8.6	8.5	88.1	200	1.7	1.7	37.0	47.09	12.57	84.77	----
Jul 1996	30.8	739	305.7	83.2	1761.8	----	9.9	9.9	85.2	272	2.7	2.7	21.2	47.39	12.65	86.53	----
Aug 1996	30.8	740	227.1	70.8	1514.0	----	7.4	7.3	87.0	312	2.3	2.3	21.4	47.62	12.72	88.04	----
Sep 1996	29.9	717	258.5	82.7	1415.4	----	8.7	8.6	84.6	320	2.8	2.8	17.1	47.88	12.80	89.46	----
Oct 1996	31.0	745	239.2	84.8	1517.0	----	7.7	7.7	86.4	355	2.7	2.7	17.9	48.12	12.89	90.98	----
Nov 1996	29.7	712	205.7	79.6	1491.6	----	6.9	6.9	87.9	387	2.7	2.7	18.7	48.32	12.97	92.47	----
Dec 1996	31.0	744	179.8	76.2	1513.7	----	5.8	5.8	89.4	424	2.5	2.5	19.9	48.50	13.04	93.98	----
1996	357.6	8582	3106.5	873.7	19361.1	----	8.7	8.5	86.2	281	2.4	2.4	22.16	48.50	13.04	93.98	----
Jan 1997	9.0	216	40.0	25.0	404.6	----	4.4	1.3	91.0	625	2.8	0.8	16.2	48.54	13.07	94.39	----

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00/14-14-37-3W5/00
Production History
Related Information

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 First Prod Feb 1988
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Oil Reserve

Initial Volume : 2075.0 10³m³
 Prime Recovery : 40.0 %
 Enhanced Recovery : --- %
 Prime Initial Reserve : 830.0 10³m³
 Enhanced Initial Reserve : --- 10³m³
 Total Initial Reserve : 830.0 10³m³
 Cumulative Production : 816.3 10³m³
 Remaining Reserves : 13.7 10³m³
 Area : 396 Hectares
 Pay Thickness : 7.0 m
 Porosity : 0.1
 Water Saturation : 0.2
 Shrinkage : 0.7
 Discovery Year : 0
 Mean Depth : 2258.7 m KB
 Density : 849.3 kg/m³
 API Gravity : 35.0 API
 Initial GOR : 121.0 m³/m³
 Initial Pressure : 17376.0 kPa
 Initial Temperature : 349.2 C

Gas Reserve

Top : --- m
 Base : --- m
 Mean Depth : --- m
 Reserve Method : T
 Area : --- Hectares
 Pay Thickness : --- m
 Porosity : --- %
 Specific Gravity : ---
 Initial Pressure : --- kPa
 Initial Temperature : --- C
 Critical Pressure : --- kPa
 Critical Temperature : --- K
 Z Factor : ---
 Recovery Factor : 0.72
 Gas in Place : 36.0 10⁶m³
 Producible : 26.0 10⁶m³
 Marketable : 24.0 10⁶m³
 Remaining Marketable : 83.0 10⁶m³
 Cum Production : 211.0 10⁶m³

Completions

Date	Top (m)	Base (m)	Completion Type
Jan 18 1988	2259.0	2261.0	Jet Perforation
Jan 21 1988	2259.0	2261.0	Cement Squeeze
Jan 25 1988	2248.0	2252.0	Jet Perforation
Jan 26 1988	2248.0	2252.0	Acid Squeeze - Press Used
May 12 1994	2245.0	2247.0	Jet Perforation
May 16 1994	2245.0	2252.0	Acid Squeeze - Press Used
Jan 15 1997	2245.0	2252.0	Cement Squeeze

Bottom Hole Pressure Tests

Date	Test Type	Well Head Pressure kPa	Run Depth m	Test Pressure kPa	Gradient kPa/m	Temp C	Shut In Period hr	Datum Pressure kPa
Feb 07 1994	AWS BUILD-UP	7985.0	---	---	---	76.0	141.0	10215.0
Feb 05 1988	BH BUILD-UP	---	2234.0	14241.0	7.3	76.0	68.0	14477.0
Feb 01 1988	BH STATIC GRADII	---	2245.4	14374.0	7.6	76.0	---	14530.0
Feb 05 1988	BH STATIC GRADII	4916.0	2245.0	14410.0	7.1	76.0	---	14564.0