

**In the Matter of Alberta Energy and Utilities Board
Bitumen Conservation Requirements
Phase 3 Final Proceeding**

**Staff Submission Group
Addendum and Errata
Declaration and Supporting Evidence for the
Bitumen Conservation Phase 3 Final Hearing**

February 17, 2005

Contact

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1 Addendum and Errata for SSG Submission dated February 14, 2005

Appendix 1

Replace Appendix 1 with the Appendix 1 attached to this submission.

Section 2.2 Declaration

On Page 2, replace the sentence,

Of these intervals, 76 are recommended to be shut in and 1 is recommended to produce.

with,

Of these intervals, 107 are recommended to be shut in and 1 is recommended to produce.

Section 4 Changes to Previous SSG Production Status Recommendations

On Page 4, replace the paragraph,

Following are the SSG's reasons for changing its production status recommendations for the wells and intervals resulting from the two approaches described above. Add summary of wells with recommendation changes.

with,

Following are the SSG's reasons for changing its production status recommendations for the wells and intervals resulting from the two approaches described above.

Section 6.3 Conclusions

On Page 17, replace the paragraph,

The SSG is changing its production status recommendations for 35 wells to shut in.

with,

The SSG is changing its production status recommendations for 35 wells to shut in. Further, the SSG continues to recommend the shut in of 31 wells.

Appendix 1 SSG Contested Wells and Intervals

	Field Name	Pool Name	Well ID	Stratigraphic Interval	Pay Top Depth	Pay Base Depth	SSG Previous Produce / Shut in	SSG New Produce / Shut in	Licensee
1	CHARD	WABISKAW K	00/11-28-080-06W4/0	Wbsk C Sand	280.2	283	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
2	CHARD	WABISKAW U/D-034	00/06-20-080-06W4/0	Wbsk C Sand	282	284	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
3	CHARD	WABISKAW U/D-037	00/07-13-080-07W4/0	Wbsk C Sand	307	307.6	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
4	CHARD	WABISKAW U/D-037	00/07-14-080-07W4/0	Wbsk C Sand	317	319	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
5	CHARD	WABISKAW U/D-037	00/10-23-080-07W4/0	Wbsk C Sand	312.5	314	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
6	CHARD	WABISKAW U/D-037	02/09-24-080-07W4/0	Wbsk C Sand	280.8	281.3	Produce	Shut-In	PETRO-CANADA
7	DIVIDE	MCMURRAY K	00/08-02-082-12W4/0	McM B2 Seq	497	498	Produce	Shut-In	STYLUS EXPLORATION INC.
8	DIVIDE	MCMURRAY FF	00/07-09-082-12W4/0	McM B2 Seq	479.4	480.6	Produce	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
9	DIVIDE	MCMURRAY U/D-074	00/07-28-082-12W4/0	McM B2 Seq	412	415	Produce	Shut-In	STYLUS EXPLORATION INC.
10	DUNCAN	MCMURRAY YY	00/07-29-077-12W4/0	McM B1 Seq	451.5	452.2	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
11	HANGINGSTONE	WABISKAW A	00/11-35-082-08W4/0	Wbsk C Sand	443	444	Produce	Shut-In	NORTHSTAR ENERGY CORPORATION
12	HANGINGSTONE	WABISKAW A	00/07-02-083-08W4/0	Wbsk C Sand	448	448.5	Produce	Shut-In	NORTHSTAR ENERGY CORPORATION
13	HANGINGSTONE	WABISKAW-MCMURRAY D	00/08-07-081-07W4/0	McM A2 Seq	381	382.8	Shut-In	Shut-In	CALPINE CANADA RESOURCES COMPANY
14	HANGINGSTONE	WABISKAW-MCMURRAY D	00/06-17-081-07W4/0	McM A2 Seq	378.5	381.5	Shut-In	Shut-In	CALPINE CANADA RESOURCES COMPANY
15	HANGINGSTONE	WABISKAW-MCMURRAY D	00/14-01-081-08W4/0	McM A1 Seq	399	402	Produce	Shut-In	NORTHSTAR ENERGY CORPORATION

	Field Name	Pool Name	Well ID	Stratigraphic Interval	Pay Top Depth	Pay Base Depth	SSG Previous Produce / Shut in	SSG New Produce / Shut in	Licensee
16	HANGINGSTONE	WABISKAW-MCMURRAY D	00/11-13-081-08W4/0	McM A2 Seq	439.8	441.5	Shut-In	Shut-In	NORTHSTAR ENERGY CORPORATION
17	HANGINGSTONE	WABISKAW-MCMURRAY D	00/10-14-081-08W4/0	McM A2 Seq	453.2	456.2	Shut-In	Shut-In	NORTHSTAR ENERGY CORPORATION
18	HANGINGSTONE	MCMURRAY Y	00/10-09-082-09W4/0	McM A1 Seq	439.5	440.1	Produce	Shut-In	NORTHSTAR ENERGY CORPORATION
19	HANGINGSTONE	MCMURRAY KK	00/10-19-082-10W4/0	McM B1 Seq	425.5	426.8	Produce	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
20	HANGINGSTONE	MCMURRAY UNDEFINED	00/11-25-082-11W4/0	McM B2 Seq	433	437	Shut-In	Produce	PARAMOUNT ENERGY OPERATING CORP.
21	HANGINGSTONE	MCMURRAY RRR	00/02-17-082-09W4/0	McM A1 Seq	437.5	439	Produce	Shut-In	NORTHSTAR ENERGY CORPORATION
22	HANGINGSTONE	MCMURRAY RRR	00/05-18-082-09W4/0	McM A1 Seq	427	427.3	Produce	Shut-In	NORTHSTAR ENERGY CORPORATION
23	HARDY	WABISKAW A	00/03-15-077-04W4/0	Wbsk C Sand	331.2	335	Produce	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
24	HARDY	WABISKAW D	00/04-18-076-03W4/0	Wbsk C Sand	369.8	372.5	Produce	Shut-In	TALISMAN ENERGY INC.
25	HARDY	WABISKAW D	00/08-13-076-04W4/0	Wbsk C Sand	357.5	361	Produce	Shut-In	TALISMAN ENERGY INC.
26	HARDY	WABISKAW F	00/03-11-076-04W4/0	Wbsk C Sand	366.5	368.5	Produce	Shut-In	TALISMAN ENERGY INC.
27	HARDY	WABISKAW G	00/07-06-076-04W4/0	Wbsk C Sand	398	401	Produce	Shut-In	DEVON CANADA CORPORATION
28	HARDY	WABISKAW G	00/01-01-076-05W4/0	Wbsk C Sand	376.8	380	Produce	Shut-In	DEVON CANADA CORPORATION
29	HARDY	WABISKAW U/D-011	00/11-30-075-04W4/0	Wbsk C Sand	381.7	387	Produce	Shut-In	STYLUS EXPLORATION INC.
30	HARDY	WABISKAW-MCMURRAY A	00/05-19-077-04W4/0	Wbsk C Sand	316	319	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
31	HARDY	WABISKAW-MCMURRAY A	00/06-20-077-04W4/0	Wbsk C Sand	336.5	339.4	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
32	HARDY	WABISKAW-MCMURRAY A	00/07-30-077-04W4/0	Wbsk C Sand	325.8	327.5	Shut-In	Shut-In	SUPERMAN RESOURCES INC.

	Field Name	Pool Name	Well ID	Stratigraphic Interval	Pay Top Depth	Pay Base Depth	SSG Previous Produce / Shut in	SSG New Produce / Shut in	Licensee
33	HARDY	WABISKAW-MCMURRAY A	00/02-31-077-04W4/0	Wbsk C Sand	318.2	320	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
34	HARDY	WABISKAW-MCMURRAY A	00/04-13-077-05W4/0	Wbsk C Sand	332.8	334	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
35	HARDY	WABISKAW-MCMURRAY A	00/11-18-077-05W4/0	Wbsk C Sand	317	319	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
36	HARDY	WABISKAW-MCMURRAY A	00/11-19-077-05W4/0	Wbsk C Sand	316.6	317.3	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
37	HARDY	WABISKAW-MCMURRAY A	00/08-20-077-05W4/0	Wbsk C Sand	325	326.2	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
38	HARDY	WABISKAW-MCMURRAY A	00/11-21-077-05W4/0	Wbsk C Sand	322.5	323.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
39	HARDY	WABISKAW-MCMURRAY A	00/07-22-077-05W4/0	Wbsk C Sand	338.4	339.5	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
40	HARDY	WABISKAW-MCMURRAY A	00/05-24-077-05W4/0	Wbsk C Sand	343.8	346	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
41	HARDY	WABISKAW-MCMURRAY A	00/12-25-077-05W4/0	Wbsk C Sand	332.8	333.8	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
42	HARDY	WABISKAW-MCMURRAY A	00/07-26-077-05W4/0	Wbsk C Sand	342.5	343.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
43	HARDY	WABISKAW-MCMURRAY A	00/07-27-077-05W4/0	Wbsk C Sand	330.2	332	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
44	HARDY	WABISKAW-MCMURRAY A	00/11-28-077-05W4/0	Wbsk C Sand	324.2	326	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
45	HARDY	WABISKAW-MCMURRAY A	00/05-30-077-05W4/0	Wbsk C Sand	319	320.4	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
46	HARDY	WABISKAW-MCMURRAY A	00/10-33-077-05W4/0	Wbsk C Sand	337.2	338.5	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
47	HARDY	WABISKAW-MCMURRAY A	00/10-34-077-05W4/0	Wbsk C Sand	332.3	334	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
48	HARDY	WABISKAW-MCMURRAY A	00/05-35-077-05W4/0	Wbsk C Sand	338.5	339.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
49	HARDY	WABISKAW-MCMURRAY A	00/10-36-077-05W4/0	Wbsk C Sand	333	335	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.

	Field Name	Pool Name	Well ID	Stratigraphic Interval	Pay Top Depth	Pay Base Depth	SSG Previous Produce / Shut in	SSG New Produce / Shut in	Licensee
50	HARDY	WABISKAW-MCMURRAY A	00/09-36-077-06W4/0	Wbsk C Sand	322.3	324	Shut-In	Shut-In	DEVON CANADA CORPORATION
51	HARDY	WABISKAW-MCMURRAY A	00/08-06-078-04W4/0	Wbsk C Sand	323.7	324.7	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
52	HARDY	WABISKAW-MCMURRAY A	00/15-07-078-04W4/0	Wbsk C Sand	335.5	336.5	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
53	HARDY	WABISKAW-MCMURRAY A	00/08-01-078-05W4/0	Wbsk C Sand	329.1	330.4	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
54	HARDY	WABISKAW-MCMURRAY A	00/07-02-078-05W4/0	Wbsk C Sand	332.5	333	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
55	HARDY	WABISKAW-MCMURRAY A	00/05-04-078-05W4/0	Wbsk C Sand	338	338.8	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
56	HARDY	WABISKAW-MCMURRAY A	00/08-05-078-05W4/0	Wbsk C Sand	328.9	330	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
57	HARDY	WABISKAW-MCMURRAY A	00/05-07-078-05W4/0	Wbsk C Sand	332.1	332.8	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
58	HARDY	WABISKAW-MCMURRAY A	00/05-08-078-05W4/0	Wbsk C Sand	321	321.5	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
59	HARDY	WABISKAW-MCMURRAY A	00/06-12-078-05W4/0	Wbsk C Sand	333.1	334	Shut-In	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
60	HARDY	MCMURRAY U/D-074	00/07-30-077-04W4/0	McM Channel	338.5	342.5	Produce	Shut-In	SUPERMAN RESOURCES INC.
61	KIRBY	UPPER MANNVILLE I	00/10-08-074-06W4/0	Wbsk B Valley Fill	389	396	Produce	Shut-In	BP CANADA ENERGY COMPANY
62	KIRBY	UPPER MANNVILLE I	00/03-21-074-07W4/0	Wbsk B Valley Fill	442.5	444.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
63	KIRBY	UPPER MANNVILLE I	00/12-36-074-07W4/0	Wbsk B Valley Fill	395.8	398.7	Shut-In	Shut-In	BP CANADA ENERGY COMPANY
64	KIRBY	UPPER MANNVILLE I	00/11-05-075-06W4/0	Wbsk B Valley Fill	382.2	383.4	Shut-In	Shut-In	BP CANADA ENERGY COMPANY
65	KIRBY	UPPER MANNVILLE I	00/07-01-075-07W4/0	Wbsk B Valley Fill	384.2	386.2	Shut-In	Shut-In	BP CANADA ENERGY COMPANY
66	KIRBY	UPPER MANNVILLE O30	00/06-32-073-09W4/0	Wbsk B Valley Fill	426.8	427.8	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED

	Field Name	Pool Name	Well ID	Stratigraphic Interval	Pay Top Depth	Pay Base Depth	SSG Previous Produce / Shut in	SSG New Produce / Shut in	Licensee
67	KIRBY	UPPER MANNVILLE O3O	00/16-33-073-09W4/0	Wbsk B Valley Fill	424.3	426.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
68	KIRBY	UPPER MANNVILLE O3O	00/15-04-074-09W4/0	Wbsk B Valley Fill	424.5	428	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
69	KIRBY	UPPER MANNVILLE O3O	00/16-05-074-09W4/0	Wbsk B Valley Fill	429.5	431	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
70	KIRBY	UPPER MANNVILLE O3O	00/12-07-074-09W4/0	Wbsk B Valley Fill	446	447	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
71	KIRBY	UPPER MANNVILLE O3O	00/11-08-074-09W4/0	Wbsk B Valley Fill	435.25	437.6	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
72	KIRBY	UPPER MANNVILLE O3O	00/12-09-074-09W4/0	Wbsk B Valley Fill	424.5	428.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
73	KIRBY	UPPER MANNVILLE O3O	00/06-17-074-09W4/0	Wbsk B Valley Fill	431.3	435	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
74	KIRBY	UPPER MANNVILLE O3O	00/06-18-074-09W4/0	Wbsk B Valley Fill	440.5	442	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
75	KIRBY	UPPER MANNVILLE O3O	00/16-12-074-10W4/0	Wbsk B Valley Fill	450	451	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
76	KIRBY	UPPER MANNVILLE O3O	00/02-13-074-10W4/0	Wbsk B Valley Fill	446	447.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
77	KIRBY	UPPER MANNVILLE O3O	00/02-24-074-10W4/0	Wbsk B Valley Fill	453	456	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
78	LEISMER	MCMURRAY Z3Z	00/12-36-079-07W4/0	McM B1 Seq	299.2	305.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
79	LEISMER	MCMURRAY I4I	00/05-20-079-07W4/0	McM B1 Channel	310.8	316.5	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
80	NEWBY	WABISKAW S	00/01-02-084-06W4/0	Wbsk C Sand	266.5	268	Produce	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
81	NEWBY	WABISKAW S	00/08-12-084-06W4/0	Wbsk C Sand	212	213	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
82	NEWBY	WABISKAW T	00/06-09-084-06W4/0	Wbsk C Sand	236.3	237.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
83	NEWBY	WABISKAW T	00/05-10-084-06W4/0	Wbsk C Sand	219.3	221	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED

	Field Name	Pool Name	Well ID	Stratigraphic Interval	Pay Top Depth	Pay Base Depth	SSG Previous Produce / Shut in	SSG New Produce / Shut in	Licensee
84	NEWBY	WABISKAW T	00/07-16-084-06W4/0	Wbsk C Sand	206	207	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
85	NEWBY	WABISKAW T	00/09-17-084-06W4/0	Wbsk C Sand	210.2	211	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
86	NEWBY	WABISKAW T	00/10-20-084-06W4/0	Wbsk C Sand	214.2	214.8	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
87	NEWBY	WABISKAW T	00/10-21-084-06W4/0	Wbsk C Sand	194.5	196	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
88	NEWBY	WABISKAW V	00/10-25-085-06W4/0	Wbsk C Sand	163.2	164.5	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
89	NEWBY	WABISKAW V	00/10-26-085-06W4/0	Wbsk C Sand	154.2	155	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
90	NEWBY	WABISKAW V	00/10-27-085-06W4/0	Wbsk C Sand	168	169.6	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
91	NEWBY	WABISKAW Y	00/12-14-084-06W4/0	Wbsk C Sand	203	204	Produce	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
92	NEWBY	WABISKAW AA	00/14-20-083-05W4/0	Wbsk C Sand	233.3	234	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
93	NEWBY	WABISKAW AA	00/06-30-083-05W4/0	Wbsk C Sand	258	259	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
94	NEWBY	WABISKAW U/D-050	AA/02-11-086-07W4/0	Wbsk C Sand	183	184.8	Produce	Shut-In	NEXEN CANADA LTD.
95	NEWBY	WABISKAW U/D-052	AA/06-23-086-07W4/0	Wbsk C Sand	173.8	176	Produce	Shut-In	OPTI CANADA INC.
96	NEWBY	WABISKAW U/D-052	AA/11-23-086-07W4/0	Wbsk C Sand	171	172.5	Produce	Shut-In	OPTI CANADA INC.
97	NEWBY	WABISKAW U/D-052	AA/07-26-086-07W4/0	Wbsk C Sand	162	163.9	Produce	Shut-In	OPTI CANADA INC.
98	NEWBY	WABISKAW U/D-053	AA/06-28-086-07W4/0	Wbsk C Sand	185.3	186.7	Produce	Shut-In	CANNAT RESOURCES INC.
99	NEWBY	WABISKAW U/D-055	AA/07-33-086-07W4/0	Wbsk C Sand	169	170.5	Produce	Shut-In	CANNAT RESOURCES INC.
100	NEWBY	WABISKAW U/D-060	00/15-31-083-05W4/0	Wbsk C Sand	223	223.7	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED

	Field Name	Pool Name	Well ID	Stratigraphic Interval	Pay Top Depth	Pay Base Depth	SSG Previous Produce / Shut in	SSG New Produce / Shut in	Licensee
101	NEWBY	WABISKAW U/D-060	00/12-05-084-05W4/0	Wbsk C Sand	223.4	224.5	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
102	NEWBY	WABISKAW U/D-063	00/14-11-084-06W4/0	Wbsk C Sand	241.6	243	Produce	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
103	NEWBY	WABISKAW U/D-066	00/13-27-084-06W4/0	Wbsk C Sand	220.5	221.5	Shut-In	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
104	NEWBY	WABISKAW U/D-075	00/15-17-085-06W4/0	Wbsk C Sand	170.5	171.5	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED
105	NEWBY	WABISKAW U/D-081	AA/11-01-086-07W4/0	Wbsk C Sand	174.6	177	Produce	Shut-In	SUNCOR ENERGY INC.
106	RESDELN	WABISKAW U/D-012	00/05-07-084-06W4/0	Wbsk C Sand	305	306	Shut-In	Shut-In	PARAMOUNT RESOURCES LTD.
107	RESDELN	WABISKAW U/D-013	00/03-18-084-06W4/0	Wbsk C Sand	292.4	293.5	Produce	Shut-In	PARAMOUNT ENERGY OPERATING CORP.
108	THORNBURY	MCMURRAY X4X	00/11-27-079-11W4/0	McM B1 Seq	434	436	Produce	Shut-In	CANADIAN NATURAL RESOURCES LIMITED