

Claim 5
Analysis of the
Three Examples in '332 Patent

	A	B	C	D	E	F	G
1	Table 2B	Dehydrated CO2 Recycle Stream 160		Table 2B - Purified CO2 Recycle Stream 164			
2	Table 1A	Molar Flow = 17.00 MMSCFD		Table 1B: Molar Flow = 15.88 MMSCFD			C3-C8
3		Mole Frac.	MSCFD	Mole Frac.	MSCFD	%	Disregarded
4	H2S	0.0333	566	0.0327	519	91.7%	
5	N	0.0054	92	0.0058	92	100.3%	
6	CO2	0.7842	13,331	0.8359	13,274	99.6%	
7	C1	0.0521	886	0.0558	886	100.0%	
8	C2	0.0343	583	0.0348	553	94.8%	
9	C3	0.0406	690	0.0313	497	72.0%	36.1%
10	i-C4	0.0072	122	0.0022	35	28.5%	
11	n-C4	0.0171	291	0.0015	24	8.2%	
12	i-C5	0.0058	99	0.0000	0	0.0%	
13	n-C6	0.0057	97	0.0000	0	0.0%	
14	n-C7	0.0070	119	0.0000	0	0.0%	
15	n-C8	0.0071	121	0.0000	0	0.0%	
16	H2O	0.0000	0	0.0000	0	0.0%	
17		0.9998		1.0000			
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	H	I	J	K	L	M	N	O
1	Table 2B - Sour NGL Rich Stream 264			Table 2C - [Sweet] NGL Rich Stream 162				
2	Table 1B: Molar Flow = 1.119 MMSCFD			Table 1C: Molar Flow = 1.016 MMSCFD			C3-C8	
3	Mole Frac.	MSCFD	%	C3-C8	Mole Frac.	MSCFD	%	Recovered
4	0.0421	47	8.3%		0	0	0.0%	
5	0.0000	0	0.0%		0	0	0.0%	
6	0.0500	56	0.4%		0	0	0.0%	
7	0.0000	0	0.0%		0	0	0.0%	
8	0.0281	31	5.4%		0.0309	31	5.4%	
9	0.1728	193	28.0%	64.0%	0.1903	193	28.0%	64.0%
10	0.0789	88	72.1%		0.0869	88	72.1%	
11	0.2388	267	91.9%		0.263	267	91.9%	
12	0.0887	99	100.7%		0.0977	99	100.7%	
13	0.0866	97	100.0%		0.0954	97	100.0%	
14	0.1063	119	100.0%		0.1171	119	100.0%	
15	0.1077	121	99.8%		0.1186	120	99.8%	
16	0.0000	0	0.0%		0	0	0.0%	
17	1.0000				0.9999			
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	P	Q	R
1	Table 2C - Acid Gas Stream 270		
2	Table 1C: Molar Flow = 0.1030 MMSCFD		
3	Mole Frac.	MSCFD	%
4	0.4560	47	8.3%
5	0.0000	0	0.0%
6	0.5432	56	0.4%
7	0.0000	0	0.0%
8	0.0000	0	0.0%
9	0.0000	0	0.0%
10	0.0000	0	0.0%
11	0.0000	0	0.0%
12	0.0000	0	0.0%
13	0.0000	0	0.0%
14	0.0000	0	0.0%
15	0.0000	0	0.0%
16	0.0000	0	0.0%
17	0.9992		
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	A	B	C	D	E	F	G
20	Table 5A	Dehydrated CO2 Recycle Stream 160		Table 5B - Purified CO2 Recycle Stream 164			
21	Table 4A	Molar Flow = 20.00 MMSCFD		Table 4B: Molar Flow = 18.86 MMSCFD			C3-C8
22		Mole Frac.	MSCFD	Mole Frac.	MSCFD	%	Disregarded
23	H2S	0.0004	8	0.0004	8	94.3%	
24	N	0.0153	306	0.0162	306	99.8%	
25	CO2	0.6592	13,184	0.6975	13,155	99.8%	
26	C1	0.1813	3,626	0.1922	3,625	100.0%	
27	C2	0.0620	1,240	0.0620	1,169	94.3%	
28	C3	0.0411	822	0.0275	519	63.1%	36.4%
29	i-C4	0.0064	128	0.0017	32	25.0%	
30	n-C4	0.0179	358	0.0024	45	12.6%	
31	i-C5	0.0040	80	0.0000	0	0.0%	
32	n-C6	0.0049	98	0.0000	0	0.0%	
33	n-C7	0.0030	60	0.0000	0	0.0%	
34	n-C8	0.0045	90	0.0000	0	0.0%	
35	H2O	0.0000	0	0.0000	0	0.0%	
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20	Table 5B - Sour NGL Rich Stream 264				Table 5C - [Sweet] NGL Rich Stream 162			
21	Table 4B: Molar Flow = 1.139 MMSCFD				Table 4C: Molar Flow = 1.110 MMSCFD			
22	Mole Frac.	MSCFD	%	C3-C8	Mole Frac.	MSCFD	%	C3-C8 Recovered
23	0.0008	1	11.4%		0.0000	0	0.0%	
24	0.0000	0	0.0%		0.0000	0	0.0%	
25	0.0250	28	0.2%		0.0000	0	0.0%	
26	0.0000	0	0.0%		0.0000	0	0.0%	
27	0.0613	70	5.6%		0.0629	70	5.6%	
28	0.2670	304	37.0%	63.6%	0.2740	304	37.0%	63.6%
29	0.0836	95	74.4%		0.0858	95	74.4%	
30	0.2751	313	87.5%		0.2824	313	87.6%	
31	0.0697	79	99.2%		0.0716	79	99.3%	
32	0.0858	98	99.7%		0.0881	98	99.8%	
33	0.0527	60	100.0%		0.0541	60	100.1%	
34	0.0790	90	100.0%		0.0811	90	100.0%	
35	0.0000	0	0.0%		0.0000	0	0.0%	
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	P	Q	R
20	Table 5C - Acid Gas Stream 270		
21	Table 4C: Molar Flow = 0.02943 MMSCFD		
22	Mole Frac.	MSCFD	%
23	0.0315	1	11.6%
24	0.0000	0	0.0%
25	0.9685	29	0.2%
26	0.0000	0	0.0%
27	0.0000	0	0.0%
28	0.0000	0	0.0%
29	0.0000	0	0.0%
30	0.0000	0	0.0%
31	0.0000	0	0.0%
32	0.0000	0	0.0%
33	0.0000	0	0.0%
34	0.0000	0	0.0%
35	0.0000	0	0.0%
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	A	B	C	D	E	F	G
39	Table 8A	Dehydrated CO2 Recycle Stream 160		Table 8B - Purified CO2 Recycle Stream 164			
40	Table 7A	Molar Flow = 17.00 MMSCFD		Table 7B: Molar Flow = 16.82 MMSCFD			C3-C8
41		Mole Frac.	MSCFD	Mole Frac.	MSCFD	%	Disregarded
42	H2S	0.0031	53	0.0030	50	95.7%	
43	N	0.0008	14	0.0008	13	98.9%	
44	CO2	0.9400	15,980	0.9493	15,967	99.9%	
45	C1	0.0219	372	0.0222	373	100.3%	
46	C2	0.0156	265	0.0157	264	99.6%	
47	C3	0.0116	197	0.0088	148	75.1%	48.4%
48	i-C4	0.0015	26	0.0002	3	13.2%	
49	n-C4	0.0031	53	0.0001	2	3.2%	
50	i-C5	0.0007	12	0.0000	0	0.0%	
51	n-C6	0.0006	10	0.0000	0	0.0%	
52	n-C7	0.0005	9	0.0000	0	0.0%	
53	n-C8	0.0006	10	0.0000	0	0.0%	
54	H2O	0.0000	0	0.0000	0	0.0%	

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39	Table 8B - Sour NGL Rich Stream 264				Table 8C - [Sweet] NGL Rich Stream 162			
40	Table 7B: Molar Flow = 0.1763 MMSCFD				Table 7C: Molar Flow = 0.1659 MMSCFD			
41	Mole Frac.	MSCFD	%	C3-C8	Mole Frac.	MSCFD	%	C3-C8 Recovered
42	0.0094	2	3.1%		0.0000	0	0.0%	
43	0.0000	0	0.0%		0.0000	0	0.0%	
44	0.0500	9	0.1%		0.0000	0	0.0%	
45	0.0000	0	0.0%		0.0000	0	0.0%	
46	0.0000	0	0.0%		0.0000	0	0.0%	
47	0.2794	49	25.0%	52.4%	0.2790	46	23.5%	51.5%
48	0.1265	22	87.5%		0.1345	22	87.5%	
49	0.2985	53	99.9%		0.3174	53	99.9%	
50	0.0713	13	105.6%		0.0758	13	105.7%	
51	0.0617	11	106.6%		0.0656	11	106.7%	
52	0.0482	8	100.0%		0.0512	8	99.9%	
53	0.0550	10	95.1%		0.0584	10	95.0%	
54	0.0000	0	0.0%		0.0000	0	0.0%	

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	P	Q	R
39	Table 8C - Acid Gas Stream 270		
40	Table 7C: Molar Flow = 0.01048 MMSCFD		
41	Mole Frac.	MSCFD	%
42	0.1584	2	3.1%
43	0.0000	0	0.0%
44	0.8416	9	0.1%
45	0.0000	0	0.0%
46	0.0000	0	0.0%
47	0.0000	0	0.0%
48	0.0000	0	0.0%
49	0.0000	0	0.0%
50	0.0000	0	0.0%
51	0.0000	0	0.0%
52	0.0000	0	0.0%
53	0.0000	0	0.0%
54	0.0000	0	0.0%