

DATE IN 3.10.11	SUSPENSE	ENGINEER TW.	LOGGED IN 3.10.11	TYPE FPI	APP NO. 1106957010
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



McELvain (27044)

RECEIVED OCD

2011 MAR -9 P

ADMINISTRATIVE APPLICATION CHECKLIST 30-045-35043

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

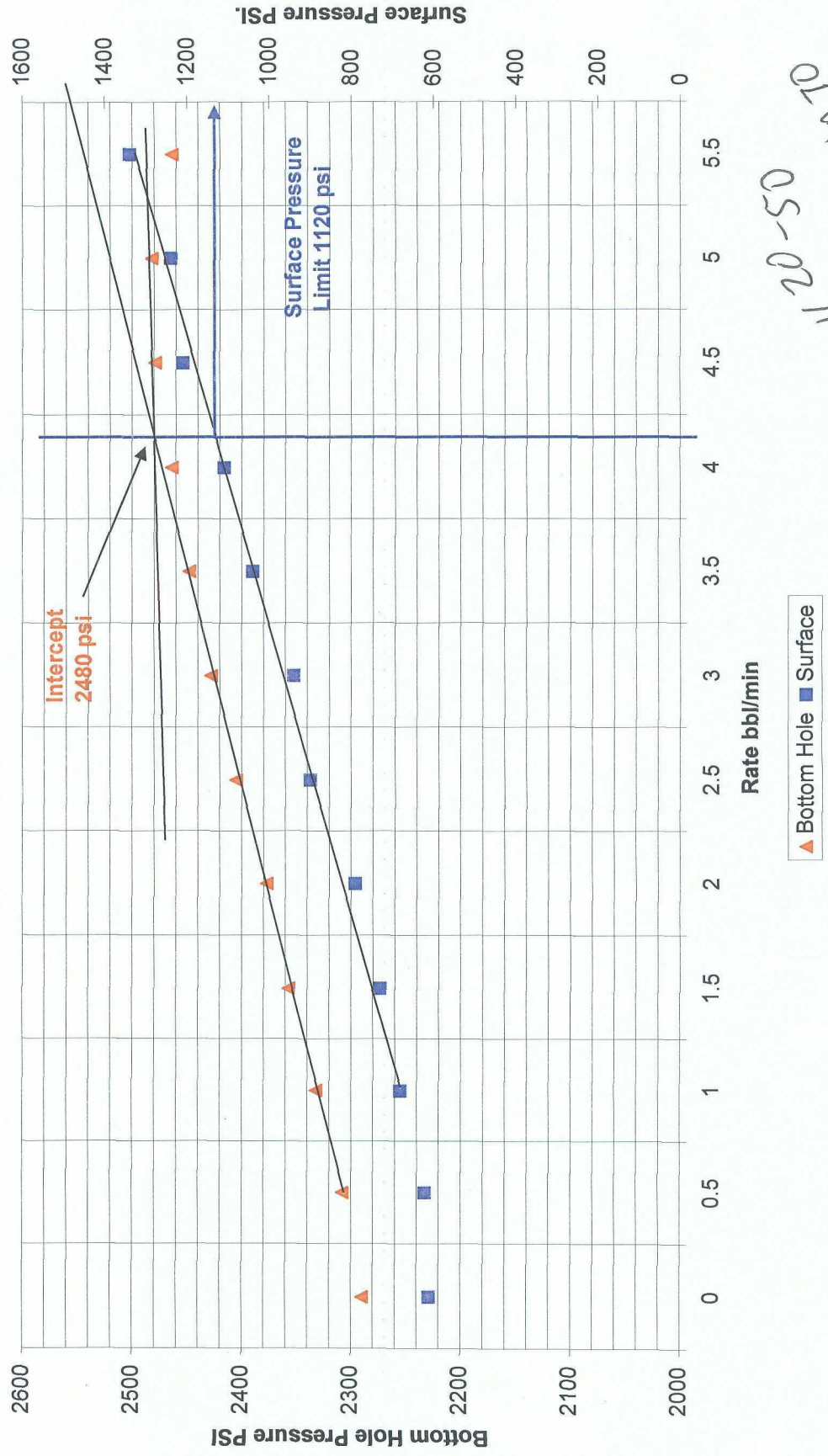
Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Art Merrick		District Engineer	3-7-2011
Print or Type Name	Signature	Title	Date
		artm@mcelvain.com	
		e-mail Address	

Fed. S.M.T.

1120
-50
10 70 150

Big Gulp Step Rate Test 3-2-11
 Administrative Order SWD 1209
 API # 30-45-3503



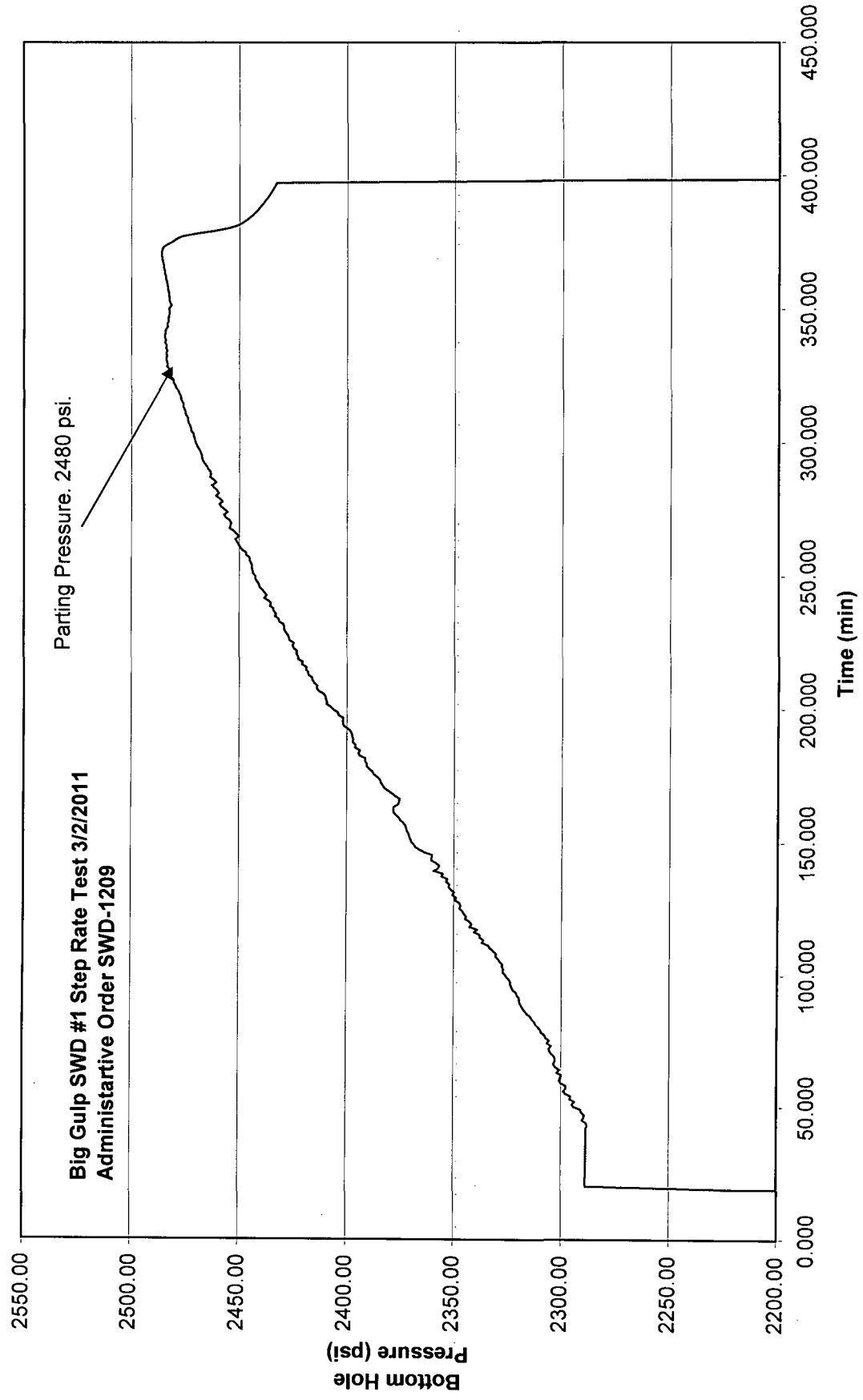
1120-50 1010

Big Gulp SWD Step Rate Test

Date: 3/2/11

Time	Elapsed Time	Rate	Surface	Bottom Hole
9:21		0	610	2290
9:53	0:32	0.5	620	2308
10:24	0:31	1	680	2332
10:54	0:30	1.5	730	2357
11:24	0:30	2	790	2377
11:54	0:30	2.5	900	2405
12:24	0:30	3	940	2428
12:54	0:30	3.5	1040	2448
13:24	0:30	4	1110	2464
13:54	0:30	4.5	1210	2479
14:24	0:30	5	1240	2482
14:54	0:30	5.5	1340	2464

Pressure Graph



Line No.	Date Time M/d/yyyy HH:mm:ss	Time min	Pressure psi	Temperature degF
1	3/2/2011 08:35:01	0.000	13.49	61.37
2	3/2/2011 08:36:01	1.003	13.48	61.33
3	3/2/2011 08:37:01	2.007	13.52	61.22
4	3/2/2011 08:38:02	3.010	13.45	61.21
5	3/2/2011 08:39:02	4.014	13.63	60.44
6	3/2/2011 08:40:02	5.017	13.78	59.94
7	3/2/2011 08:41:02	6.020	14.97	59.68
8	3/2/2011 08:42:02	7.024	634.36	50.99
9	3/2/2011 08:43:03	8.027	645.90	52.52
10	3/2/2011 08:44:03	9.031	675.84	57.05
11	3/2/2011 08:45:03	10.034	720.72	58.17
12	3/2/2011 08:46:03	11.038	757.69	59.10
13	3/2/2011 08:47:03	12.041	881.46	61.34
14	3/2/2011 08:48:04	13.044	1061.34	64.83
15	3/2/2011 08:49:04	14.048	1262.24	69.70
16	3/2/2011 08:50:04	15.051	1451.92	76.79
17	3/2/2011 08:51:04	16.055	1637.08	84.91
18	3/2/2011 08:52:04	17.058	1837.08	95.23
19	3/2/2011 08:53:05	18.061	2033.84	101.18
20	3/2/2011 08:54:05	19.065	2226.25	107.83
21	3/2/2011 08:55:05	20.068	2288.77	109.65
22	3/2/2011 08:56:05	21.072	2288.80	108.56
23	3/2/2011 08:57:06	22.075	2288.83	108.27
24	3/2/2011 08:58:06	23.079	2288.80	108.15
25	3/2/2011 08:59:06	24.082	2288.76	108.11
26	3/2/2011 09:00:06	25.085	2288.71	108.14
27	3/2/2011 09:01:06	26.089	2288.73	108.14
28	3/2/2011 09:02:07	27.092	2288.72	108.04
29	3/2/2011 09:03:07	28.096	2288.71	107.97
30	3/2/2011 09:04:07	29.099	2288.66	107.87
31	3/2/2011 09:05:07	30.102	2288.60	107.81
32	3/2/2011 09:06:07	31.106	2288.62	107.76
33	3/2/2011 09:07:08	32.109	2288.63	107.72
34	3/2/2011 09:08:08	33.113	2288.61	107.69
35	3/2/2011 09:09:08	34.116	2288.59	107.61
36	3/2/2011 09:10:08	35.120	2288.55	107.53
37	3/2/2011 09:11:08	36.123	2288.53	107.44
38	3/2/2011 09:12:09	37.126	2288.50	107.37
39	3/2/2011 09:13:09	38.130	2288.52	107.31
40	3/2/2011 09:14:09	39.133	2288.46	107.25
41	3/2/2011 09:15:09	40.137	2288.49	107.23
42	3/2/2011 09:16:09	41.140	2288.46	107.19
43	3/2/2011 09:17:10	42.143	2288.45	107.18
44	3/2/2011 09:18:10	43.147	2287.97	107.18
45	3/2/2011 09:19:10	44.150	2288.50	107.26
46	3/2/2011 09:20:10	45.154	2290.29	107.77
47	3/2/2011 09:21:10	46.157	2289.50	108.91
48	3/2/2011 09:22:11	47.160	2289.26	109.31
49	3/2/2011 09:23:11	48.164	2290.77	109.50
50	3/2/2011 09:24:11	49.167	2291.03	109.53

51	3/2/2011	09:25:11	50.171	2294.22	109.48
52	3/2/2011	09:26:11	51.174	2294.97	109.68
53	3/2/2011	09:27:12	52.178	2293.82	110.09
54	3/2/2011	09:28:12	53.181	2296.11	110.62
55	3/2/2011	09:29:12	54.184	2295.58	110.89
56	3/2/2011	09:30:12	55.188	2298.01	110.81
57	3/2/2011	09:31:12	56.191	2299.09	110.60
58	3/2/2011	09:32:13	57.195	2297.85	110.27
59	3/2/2011	09:33:13	58.198	2298.01	109.86
60	3/2/2011	09:34:13	59.201	2300.31	109.39
61	3/2/2011	09:35:13	60.205	2301.01	108.98
62	3/2/2011	09:36:13	61.208	2300.46	108.68
63	3/2/2011	09:37:14	62.212	2300.09	108.44
64	3/2/2011	09:38:14	63.215	2302.13	108.24
65	3/2/2011	09:39:14	64.219	2300.93	108.04
66	3/2/2011	09:40:14	65.222	2302.74	107.86
67	3/2/2011	09:41:15	66.225	2303.69	107.67
68	3/2/2011	09:42:15	67.229	2303.09	107.49
69	3/2/2011	09:43:15	68.232	2302.95	107.31
70	3/2/2011	09:44:15	69.236	2303.37	107.13
71	3/2/2011	09:45:15	70.239	2304.65	106.95
72	3/2/2011	09:46:16	71.242	2305.50	106.78
73	3/2/2011	09:47:16	72.246	2305.91	106.61
74	3/2/2011	09:48:16	73.249	2304.84	106.47
75	3/2/2011	09:49:16	74.253	2306.83	106.32
76	3/2/2011	09:50:16	75.256	2305.70	106.18
77	3/2/2011	09:51:17	76.260	2307.42	106.04
78	3/2/2011	09:52:17	77.263	2307.84	105.89
79	3/2/2011	09:53:17	78.266	2309.50	105.75
80	3/2/2011	09:54:17	79.270	2309.75	105.53
81	3/2/2011	09:55:17	80.273	2310.90	105.25
82	3/2/2011	09:56:18	81.277	2312.06	104.92
83	3/2/2011	09:57:18	82.280	2312.59	104.39
84	3/2/2011	09:58:18	83.283	2313.73	103.75
85	3/2/2011	09:59:18	84.287	2314.47	103.10
86	3/2/2011	10:00:18	85.290	2316.07	102.52
87	3/2/2011	10:01:19	86.294	2316.97	101.98
88	3/2/2011	10:02:19	87.297	2317.89	101.48
89	3/2/2011	10:03:19	88.300	2318.66	101.00
90	3/2/2011	10:04:19	89.304	2319.32	100.57
91	3/2/2011	10:05:19	90.307	2319.73	100.16
92	3/2/2011	10:06:20	91.311	2319.73	99.78
93	3/2/2011	10:07:20	92.314	2320.73	99.43
94	3/2/2011	10:08:20	93.318	2320.98	99.10
95	3/2/2011	10:09:20	94.321	2322.56	98.79
96	3/2/2011	10:10:20	95.324	2323.10	98.49
97	3/2/2011	10:11:21	96.328	2323.69	98.19
98	3/2/2011	10:12:21	97.331	2323.70	97.90
99	3/2/2011	10:13:21	98.335	2324.46	97.65
100	3/2/2011	10:14:21	99.338	2325.49	97.39
101	3/2/2011	10:15:21	100.341	2326.19	97.14
102	3/2/2011	10:16:22	101.345	2327.27	96.89

103	3/2/2011	10:17:22	102.348	2327.04	96.64
104	3/2/2011	10:18:22	103.352	2327.63	96.40
105	3/2/2011	10:19:22	104.355	2327.59	96.17
106	3/2/2011	10:20:23	105.359	2328.71	95.93
107	3/2/2011	10:21:23	106.362	2329.49	95.70
108	3/2/2011	10:22:23	107.365	2330.63	95.49
109	3/2/2011	10:23:23	108.369	2330.46	95.27
110	3/2/2011	10:24:23	109.372	2331.79	94.97
111	3/2/2011	10:25:24	110.376	2333.42	94.59
112	3/2/2011	10:26:24	111.379	2334.23	93.99
113	3/2/2011	10:27:24	112.382	2337.03	93.19
114	3/2/2011	10:28:24	113.386	2336.36	92.37
115	3/2/2011	10:29:24	114.389	2338.13	91.61
116	3/2/2011	10:30:25	115.393	2338.16	90.91
117	3/2/2011	10:31:25	116.396	2340.78	90.31
118	3/2/2011	10:32:25	117.400	2339.37	89.77
119	3/2/2011	10:33:25	118.403	2342.75	89.29
120	3/2/2011	10:34:25	119.406	2341.95	88.87
121	3/2/2011	10:35:26	120.410	2342.88	88.48
122	3/2/2011	10:36:26	121.413	2344.81	88.12
123	3/2/2011	10:37:26	122.417	2344.48	87.79
124	3/2/2011	10:38:26	123.420	2345.67	87.48
125	3/2/2011	10:39:26	124.423	2346.26	87.20
126	3/2/2011	10:40:27	125.427	2347.69	86.93
127	3/2/2011	10:41:27	126.430	2347.02	86.66
128	3/2/2011	10:42:27	127.434	2347.64	86.41
129	3/2/2011	10:43:27	128.437	2349.68	86.15
130	3/2/2011	10:44:27	129.440	2349.18	85.92
131	3/2/2011	10:45:28	130.444	2350.86	85.68
132	3/2/2011	10:46:28	131.447	2350.08	85.44
133	3/2/2011	10:47:28	132.451	2351.55	85.21
134	3/2/2011	10:48:28	133.454	2352.67	84.98
135	3/2/2011	10:49:28	134.458	2352.28	84.77
136	3/2/2011	10:50:29	135.461	2353.85	84.55
137	3/2/2011	10:51:29	136.464	2353.24	84.34
138	3/2/2011	10:52:29	137.468	2356.03	84.13
139	3/2/2011	10:53:29	138.471	2355.27	83.93
140	3/2/2011	10:54:29	139.475	2359.53	83.70
141	3/2/2011	10:55:30	140.478	2357.67	83.35
142	3/2/2011	10:56:30	141.481	2357.01	82.77
143	3/2/2011	10:57:30	142.485	2358.46	82.05
144	3/2/2011	10:58:30	143.488	2360.66	81.39
145	3/2/2011	10:59:31	144.492	2360.64	80.80
146	3/2/2011	11:00:31	145.495	2360.27	80.31
147	3/2/2011	11:01:31	146.499	2363.82	79.90
148	3/2/2011	11:02:31	147.502	2366.26	79.55
149	3/2/2011	11:03:31	148.505	2368.01	79.24
150	3/2/2011	11:04:32	149.509	2369.03	78.98
151	3/2/2011	11:05:32	150.512	2370.08	78.74
152	3/2/2011	11:06:32	151.516	2370.58	78.52
153	3/2/2011	11:07:32	152.519	2371.04	78.33
154	3/2/2011	11:08:32	153.522	2371.38	78.12

155	3/2/2011	11:09:33	154.526	2372.12	77.94
156	3/2/2011	11:10:33	155.529	2372.47	77.75
157	3/2/2011	11:11:33	156.533	2372.85	77.58
158	3/2/2011	11:12:33	157.536	2373.75	77.41
159	3/2/2011	11:13:33	158.540	2375.10	77.25
160	3/2/2011	11:14:34	159.543	2376.04	77.08
161	3/2/2011	11:15:34	160.546	2377.26	76.93
162	3/2/2011	11:16:34	161.550	2378.28	76.77
163	3/2/2011	11:17:34	162.553	2378.50	76.62
164	3/2/2011	11:18:34	163.557	2378.22	76.48
165	3/2/2011	11:19:35	164.560	2376.23	76.34
166	3/2/2011	11:20:35	165.563	2375.77	76.21
167	3/2/2011	11:21:35	166.567	2375.56	76.07
168	3/2/2011	11:22:35	167.570	2377.61	75.94
169	3/2/2011	11:23:35	168.574	2379.07	75.80
170	3/2/2011	11:24:36	169.577	2381.06	75.67
171	3/2/2011	11:25:36	170.580	2382.68	75.46
172	3/2/2011	11:26:36	171.584	2383.49	75.04
173	3/2/2011	11:27:36	172.587	2384.33	74.57
174	3/2/2011	11:28:36	173.591	2384.67	74.14
175	3/2/2011	11:29:37	174.594	2385.87	73.80
176	3/2/2011	11:30:37	175.598	2387.52	73.54
177	3/2/2011	11:31:37	176.601	2388.13	73.32
178	3/2/2011	11:32:37	177.604	2389.76	73.15
179	3/2/2011	11:33:37	178.608	2390.91	72.99
180	3/2/2011	11:34:38	179.611	2390.93	72.86
181	3/2/2011	11:35:38	180.615	2391.68	72.73
182	3/2/2011	11:36:38	181.618	2391.63	72.62
183	3/2/2011	11:37:38	182.621	2394.14	72.51
184	3/2/2011	11:38:38	183.625	2394.86	72.41
185	3/2/2011	11:39:39	184.628	2394.16	72.31
186	3/2/2011	11:40:39	185.632	2396.32	72.21
187	3/2/2011	11:41:39	186.635	2396.18	72.11
188	3/2/2011	11:42:39	187.639	2397.50	72.03
189	3/2/2011	11:43:40	188.642	2397.16	71.94
190	3/2/2011	11:44:40	189.645	2397.55	71.85
191	3/2/2011	11:45:40	190.649	2397.76	71.77
192	3/2/2011	11:46:40	191.652	2398.44	71.69
193	3/2/2011	11:47:40	192.656	2399.70	71.61
194	3/2/2011	11:48:41	193.659	2401.64	71.53
195	3/2/2011	11:49:41	194.662	2402.00	71.46
196	3/2/2011	11:50:41	195.666	2402.06	71.39
197	3/2/2011	11:51:41	196.669	2401.84	71.32
198	3/2/2011	11:52:41	197.673	2403.94	71.24
199	3/2/2011	11:53:42	198.676	2404.34	71.17
200	3/2/2011	11:54:42	199.680	2406.21	71.08
201	3/2/2011	11:55:42	200.683	2407.61	70.86
202	3/2/2011	11:56:42	201.686	2409.49	70.50
203	3/2/2011	11:57:42	202.690	2409.46	70.18
204	3/2/2011	11:58:43	203.693	2409.92	69.93
205	3/2/2011	11:59:43	204.697	2410.13	69.76
206	3/2/2011	12:00:43	205.700	2411.19	69.63

207	3/2/2011	12:01:43	206.703	2413.20	69.52
208	3/2/2011	12:02:43	207.707	2414.20	69.45
209	3/2/2011	12:03:44	208.710	2413.98	69.37
210	3/2/2011	12:04:44	209.714	2415.44	69.31
211	3/2/2011	12:05:44	210.717	2416.20	69.26
212	3/2/2011	12:06:44	211.720	2416.39	69.21
213	3/2/2011	12:07:44	212.724	2418.07	69.18
214	3/2/2011	12:08:45	213.727	2418.25	69.14
215	3/2/2011	12:09:45	214.731	2419.29	69.11
216	3/2/2011	12:10:45	215.734	2419.14	69.07
217	3/2/2011	12:11:45	216.738	2421.15	69.03
218	3/2/2011	12:12:45	217.741	2420.92	69.00
219	3/2/2011	12:13:46	218.744	2422.95	68.96
220	3/2/2011	12:14:46	219.748	2422.87	68.92
221	3/2/2011	12:15:46	220.751	2423.56	68.88
222	3/2/2011	12:16:46	221.755	2423.28	68.85
223	3/2/2011	12:17:46	222.758	2424.78	68.82
224	3/2/2011	12:18:47	223.761	2425.29	68.85
225	3/2/2011	12:19:47	224.765	2424.79	68.79
226	3/2/2011	12:20:47	225.768	2426.72	68.64
227	3/2/2011	12:21:47	226.772	2427.15	68.49
228	3/2/2011	12:22:48	227.775	2427.55	68.30
229	3/2/2011	12:23:48	228.779	2428.57	67.96
230	3/2/2011	12:24:48	229.782	2429.27	67.66
231	3/2/2011	12:25:48	230.785	2429.28	67.34
232	3/2/2011	12:26:48	231.789	2429.59	66.96
233	3/2/2011	12:27:49	232.792	2431.47	66.64
234	3/2/2011	12:28:49	233.796	2431.90	66.38
235	3/2/2011	12:29:49	234.799	2433.58	66.18
236	3/2/2011	12:30:49	235.802	2433.01	66.07
237	3/2/2011	12:31:49	236.806	2434.09	65.96
238	3/2/2011	12:32:50	237.809	2434.31	65.85
239	3/2/2011	12:33:50	238.813	2435.90	65.77
240	3/2/2011	12:34:50	239.816	2435.44	65.70
241	3/2/2011	12:35:50	240.820	2436.75	65.63
242	3/2/2011	12:36:50	241.823	2438.56	65.57
243	3/2/2011	12:37:51	242.826	2437.48	65.53
244	3/2/2011	12:38:51	243.830	2438.47	65.47
245	3/2/2011	12:39:51	244.833	2439.54	65.41
246	3/2/2011	12:40:51	245.837	2440.68	65.36
247	3/2/2011	12:41:51	246.840	2441.07	65.31
248	3/2/2011	12:42:52	247.843	2441.71	65.27
249	3/2/2011	12:43:52	248.847	2442.69	65.22
250	3/2/2011	12:44:52	249.850	2442.57	65.17
251	3/2/2011	12:45:52	250.854	2443.64	65.14
252	3/2/2011	12:46:52	251.857	2443.87	65.09
253	3/2/2011	12:47:53	252.860	2444.26	65.04
254	3/2/2011	12:48:53	253.864	2444.19	65.00
255	3/2/2011	12:49:53	254.867	2444.69	64.95
256	3/2/2011	12:50:53	255.871	2445.33	64.92
257	3/2/2011	12:51:53	256.874	2445.44	64.89
258	3/2/2011	12:52:54	257.878	2447.04	64.85

259	3/2/2011	12:53:54	258.881	2447.07	64.82
260	3/2/2011	12:54:54	259.884	2449.06	64.74
261	3/2/2011	12:55:54	260.888	2449.82	64.54
262	3/2/2011	12:56:54	261.891	2450.57	64.32
263	3/2/2011	12:57:55	262.895	2451.31	64.13
264	3/2/2011	12:58:55	263.898	2451.99	64.00
265	3/2/2011	12:59:55	264.901	2450.28	63.93
266	3/2/2011	13:00:55	265.905	2451.64	63.91
267	3/2/2011	13:01:55	266.908	2452.83	63.91
268	3/2/2011	13:02:56	267.912	2454.75	63.92
269	3/2/2011	13:03:56	268.915	2454.26	63.92
270	3/2/2011	13:04:56	269.919	2453.87	63.90
271	3/2/2011	13:05:56	270.922	2454.83	63.88
272	3/2/2011	13:06:57	271.925	2456.37	63.86
273	3/2/2011	13:07:57	272.929	2457.39	63.84
274	3/2/2011	13:08:57	273.932	2455.71	63.82
275	3/2/2011	13:09:57	274.936	2457.15	63.81
276	3/2/2011	13:10:57	275.939	2458.67	63.79
277	3/2/2011	13:11:58	276.942	2459.40	63.78
278	3/2/2011	13:12:58	277.946	2457.98	63.76
279	3/2/2011	13:13:58	278.949	2459.28	63.75
280	3/2/2011	13:14:58	279.953	2460.99	63.73
281	3/2/2011	13:15:58	280.956	2459.70	63.71
282	3/2/2011	13:16:59	281.960	2460.40	63.70
283	3/2/2011	13:17:59	282.963	2461.92	63.69
284	3/2/2011	13:18:59	283.966	2462.94	63.72
285	3/2/2011	13:19:59	284.970	2460.94	63.83
286	3/2/2011	13:20:59	285.973	2462.06	63.74
287	3/2/2011	13:22:00	286.977	2463.78	63.66
288	3/2/2011	13:23:00	287.980	2463.32	63.62
289	3/2/2011	13:24:00	288.983	2463.66	63.61
290	3/2/2011	13:25:00	289.987	2464.64	63.60
291	3/2/2011	13:26:00	290.990	2465.35	63.56
292	3/2/2011	13:27:01	291.994	2466.26	63.46
293	3/2/2011	13:28:01	292.997	2466.99	63.38
294	3/2/2011	13:29:01	294.000	2467.48	63.33
295	3/2/2011	13:30:01	295.004	2467.64	63.30
296	3/2/2011	13:31:01	296.007	2468.10	63.29
297	3/2/2011	13:32:02	297.011	2468.66	63.29
298	3/2/2011	13:33:02	298.014	2469.47	63.29
299	3/2/2011	13:34:02	299.018	2470.08	63.28
300	3/2/2011	13:35:02	300.021	2470.57	63.28
301	3/2/2011	13:36:02	301.024	2470.91	63.28
302	3/2/2011	13:37:03	302.028	2471.30	63.29
303	3/2/2011	13:38:03	303.031	2471.53	63.29
304	3/2/2011	13:39:03	304.035	2472.48	63.29
305	3/2/2011	13:40:03	305.038	2472.73	63.29
306	3/2/2011	13:41:03	306.041	2473.03	63.28
307	3/2/2011	13:42:04	307.045	2473.83	63.27
308	3/2/2011	13:43:04	308.048	2473.98	63.27
309	3/2/2011	13:44:04	309.052	2474.30	63.28
310	3/2/2011	13:45:04	310.055	2475.15	63.30

311	3/2/2011	13:46:05	311.059	2475.15	63.31
312	3/2/2011	13:47:05	312.062	2475.72	63.31
313	3/2/2011	13:48:05	313.065	2476.31	63.55
314	3/2/2011	13:49:05	314.069	2476.20	63.83
315	3/2/2011	13:50:05	315.072	2476.88	63.76
316	3/2/2011	13:51:06	316.076	2477.39	63.66
317	3/2/2011	13:52:06	317.079	2477.52	63.61
318	3/2/2011	13:53:06	318.082	2478.16	63.60
319	3/2/2011	13:54:06	319.086	2478.63	63.58
320	3/2/2011	13:55:06	320.089	2479.43	63.58
321	3/2/2011	13:56:07	321.093	2479.84	63.60
322	3/2/2011	13:57:07	322.096	2480.61	63.64
323	3/2/2011	13:58:07	323.100	2480.72	63.66
324	3/2/2011	13:59:07	324.103	2481.81	63.66
325	3/2/2011	14:00:07	325.106	2481.70	63.70
326	3/2/2011	14:01:08	326.110	2482.73	63.76
327	3/2/2011	14:02:08	327.113	2482.54	63.83
328	3/2/2011	14:03:08	328.117	2483.65	63.89
329	3/2/2011	14:04:08	329.120	2483.48	63.92
330	3/2/2011	14:05:08	330.123	2483.77	63.94
331	3/2/2011	14:06:09	331.127	2483.97	63.97
332	3/2/2011	14:07:09	332.130	2483.70	63.99
333	3/2/2011	14:08:09	333.134	2484.05	63.99
334	3/2/2011	14:09:09	334.137	2483.51	64.01
335	3/2/2011	14:10:09	335.140	2484.10	64.04
336	3/2/2011	14:11:10	336.144	2483.96	64.08
337	3/2/2011	14:12:10	337.147	2484.64	64.12
338	3/2/2011	14:13:10	338.151	2484.28	64.15
339	3/2/2011	14:14:10	339.154	2484.70	64.17
340	3/2/2011	14:15:10	340.158	2484.62	64.20
341	3/2/2011	14:16:11	341.161	2484.45	64.22
342	3/2/2011	14:17:11	342.164	2484.28	64.24
343	3/2/2011	14:18:11	343.168	2483.36	64.27
344	3/2/2011	14:19:11	344.171	2483.64	64.31
345	3/2/2011	14:20:11	345.175	2482.94	64.34
346	3/2/2011	14:21:12	346.178	2483.05	64.36
347	3/2/2011	14:22:12	347.181	2482.87	64.37
348	3/2/2011	14:23:12	348.185	2482.48	64.39
349	3/2/2011	14:24:12	349.188	2482.70	64.43
350	3/2/2011	14:25:13	350.192	2482.73	64.46
351	3/2/2011	14:26:13	351.195	2481.50	64.47
352	3/2/2011	14:27:13	352.199	2482.39	64.51
353	3/2/2011	14:28:13	353.202	2482.63	64.52
354	3/2/2011	14:29:13	354.205	2482.70	64.49
355	3/2/2011	14:30:14	355.209	2482.87	64.47
356	3/2/2011	14:31:14	356.212	2483.01	64.49
357	3/2/2011	14:32:14	357.216	2483.30	64.52
358	3/2/2011	14:33:14	358.219	2483.38	64.55
359	3/2/2011	14:34:14	359.222	2483.69	64.60
360	3/2/2011	14:35:15	360.226	2483.94	64.63
361	3/2/2011	14:36:15	361.229	2484.23	64.66
362	3/2/2011	14:37:15	362.233	2484.43	64.67

363	3/2/2011	14:38:15	363.236	2484.81	64.70
364	3/2/2011	14:39:15	364.240	2484.88	64.73
365	3/2/2011	14:40:16	365.243	2485.18	64.76
366	3/2/2011	14:41:16	366.246	2485.32	64.80
367	3/2/2011	14:42:16	367.250	2485.61	64.83
368	3/2/2011	14:43:16	368.253	2485.96	64.86
369	3/2/2011	14:44:16	369.257	2486.11	64.91
370	3/2/2011	14:45:17	370.260	2486.28	64.94
371	3/2/2011	14:46:17	371.263	2486.30	64.99
372	3/2/2011	14:47:17	372.267	2485.98	65.03
373	3/2/2011	14:48:17	373.270	2485.46	65.09
374	3/2/2011	14:49:17	374.274	2483.31	65.18
375	3/2/2011	14:50:18	375.277	2481.07	65.28
376	3/2/2011	14:51:18	376.280	2479.25	65.38
377	3/2/2011	14:52:18	377.284	2476.54	65.42
378	3/2/2011	14:53:18	378.287	2469.80	65.26
379	3/2/2011	14:54:18	379.291	2461.73	65.54
380	3/2/2011	14:55:19	380.294	2455.35	66.39
381	3/2/2011	14:56:19	381.298	2451.28	67.24
382	3/2/2011	14:57:19	382.301	2448.76	67.82
383	3/2/2011	14:58:19	383.304	2446.95	68.35
384	3/2/2011	14:59:19	384.308	2445.46	68.76
385	3/2/2011	15:00:20	385.311	2444.04	69.16
386	3/2/2011	15:01:20	386.315	2442.76	69.48
387	3/2/2011	15:02:20	387.318	2441.61	69.74
388	3/2/2011	15:03:20	388.321	2440.53	69.99
389	3/2/2011	15:04:20	389.325	2439.47	70.21
390	3/2/2011	15:05:21	390.328	2438.50	70.40
391	3/2/2011	15:06:21	391.332	2437.59	70.57
392	3/2/2011	15:07:21	392.335	2436.64	70.74
393	3/2/2011	15:08:21	393.339	2435.85	70.91
394	3/2/2011	15:09:22	394.342	2435.03	71.06
395	3/2/2011	15:10:22	395.345	2434.32	71.21
396	3/2/2011	15:11:22	396.349	2433.60	71.35
397	3/2/2011	15:12:22	397.352	2432.90	71.50
398	3/2/2011	15:13:22	398.356	2283.86	71.65
399	3/2/2011	15:14:23	399.359	2026.99	70.93
400	3/2/2011	15:15:23	400.362	1750.37	68.88
401	3/2/2011	15:16:23	401.366	1450.21	65.95
402	3/2/2011	15:17:23	402.369	1148.64	62.97
403	3/2/2011	15:18:23	403.373	961.72	60.60
404	3/2/2011	15:19:24	404.376	793.59	59.41
405	3/2/2011	15:20:24	405.380	755.64	60.03
406	3/2/2011	15:21:24	406.383	12.17	62.06
407	3/2/2011	15:22:24	407.386	13.08	62.59
408	3/2/2011	15:23:24	408.390	13.12	62.33
409	3/2/2011	15:24:25	409.393	13.77	60.15
410	3/2/2011	15:25:25	410.397	13.77	60.24
411	3/2/2011	15:26:25	411.400	13.39	61.18

STIMULATION REPORT										
CUSTOMER:						DATE:				
McElvain Oil and Gas Properties						3/2/2011				
WELL NAME:						CUSTOMER REP:				
Big Gulp SWD #1						Mark				
LEGAL DESCRIPTION: SEC, TWP, RNG						SERVICE SUPERVISOR:				
S20 T30N R13W			R. Kuehling			GPS COORDINATES:				
SAN JUAN, NM.			FIELD INVOICE #:		71842	0				
FORMATION	PERFORATIONS				CASING / TUBULARS					
	TOP	BOTTOM	# HOLES	HOLE SIZE	CASING	SIZE	WGT	GRADE	DEPTH	
					LINER	SIZE	WGT	GRADE	DEPTH	
					TUBING	SIZE	WGT	GRADE	DEPTH	
					2.375		J55	3717		
JOB TYPE, ACID SPOT, ACID, BD, FRAC, OTHER					TREAT VIA: CASING, TUBING					
MIS PUMP										
PROPOSED JOB SUMMARY										
PROPOSED PROCEDURE SUMMARY	.5 bpm increments for 30 min. ea. until 2500 psi is attained.					CALC CAPACITIES				
							bbl/ft	depth	bbl cap	
						TUBING	0.00387	3717	14.38	
						CASING	.0405	3717	150.5	
				ANNULAR	0.035	3717	130			
ACID TYPE	ACID %	ACID VOL	FRAC FLUID	BASE FLUID	FOAM %	MITCH or CIP				
BALLSEALERS	TYPE	SIZE	SP GR	# BALLS	PAD VOL (gal)	S/L Vol (gal)	MAX PROP (ppg)	PROP SIZE		
MAX PRESSURE					TOT FRAC FLUID (gal)	TOTAL BASE (gal)	PROP TYPE	TOTAL PROP (lb)		
ACTUAL JOB DETAILS										
TIME	TREATING PRESSURE	SLURRY RATE BPM	SLURRY BBLs PUMPED		N2 RATE, SCFM	CALC DH TOTAL RATE	SURFACE CO2/N2 PUMPED		EVENT	
			STG	CUMM			STG	CUMM		
8:00									ARRIVE LOCATION	
8:10									TAILGATE MEETING	
8:30									RIG UP	
9:10									Line test	
9:18									Rel	
9:18	500	0-5							open well st pump	
9:20	600	.5-0							s/d tighten wireline conn	
9:21	610	0-5	0	0+					res pumping	
9:53	610-620	.5-1.0	15	15					incr to 1.0 bpm	
10:24	640-680	1.0-1.5	30	45					incr to 1.5 bpm	
10:54	690-730	1.5-2.0	45	90					incr to 2.0 bpm	
11:24	740-790	2.0-2.5	60	150					incr to 2.5 bpm	
11:54	800-900	2.5-3.0	75	225					incr to 3.0 bpm	
12:24	910-940	3.0-3.5	90	315					incr to 3.5 bpm	
12:54	960-1040	3.5-4	105	420					incr to 4.0 bpm	
13:24	1060-1110	4-4.5	120	540					incr to 4.5 bpm	
13:54	1130-1210	4.5-5.0	135	675					incr to 5.0 bpm	
TREATING PRESSURE MIN:		0	psi	ISIP:			psi	MIN RATE:	bpm	
TREATING PRESSURE MAX:			psi	5 MIN SI PRESSURE:			psi	MAX RATE:	bpm	
AVG TREATING PRESSURE:			psi	10 MIN SI PRESSURE:			psi	AVG RATE:	bpm	
15 MIN SI PRESSURE:										
LOAD TO RECOVER:										
Wellbore Fluid:			bbl							
Acid			bbl							
Frac Fluid:			bbl							
Flush/Displacement:			bbl							
CUSTOMER REPRESENTATIVE:					Mark Wolf		PACE SUPERVISOR:			R. Kuehling
							SIGNATURE:			

						STIMULATION REPORT													
CUSTOMER:						 ACIDIZING & CEMENTING								DATE:					
McElvain Oil and Gas Properties																			
WELL NAME:														CUSTOMER REP:					
Big Gulp SWD #1														Mark Wolf					
LEGAL DESCRIPTION: SEC, TWP, RNG														SERVICE SUPERVISOR:					
S20 T30N R13W						R. Kuehling													
COUNTY, STATE:						GPS COORDINATES:													
SAN JUAN, NM.						FIELD INVOICE #:				71842				0					
ACTUAL JOB DETAILS (CONTINUED)																			
TIME	TREATING PRESSURE		SLURRY RATE BPM	SLURRY BBLS PUMPED		N2 RATE, SCFM	CALC DH TOTAL RATE	SURFACE CO2/N2 PUMPED		EVENT									
				STG	CUMM			STG	CUMM										
1424	220-1240		5.0-5.5	150	825					incr to 5.5 bpm									
1454	1340		5.5	165	990					S/D									
1454	780									ISIP									
1459	350									5 min.									
1504	340									10 min									
1509	340									15 min									
										rig dn									
1530										leave loc									
TREATING PRESSURE MIN:			psi	ISIP:				psi	MIN RATE:	bpm									
TREATING PRESSURE MAX:			psi	5 MIN SI PRESSURE:				psi	MAX RATE:	bpm									
AVG TREATING PRESSURE:			psi	10 MIN SI PRESSURE:				psi	AVG RATE:	bpm									
LOAD TO RECOVER:				15 MIN SI PRESSURE:				psi											
Wellbore fluid:			bbl																
Acid:			bbl																
Frac fluid:			bbl																
Flush/displacement:			bbl																
PACE SUPERVISOR: R. Kuehling SIGNATURE:																			
CUSTOMER REPRESENTATIVE:																			

page 2

McElvain Oil and Gas Properties Inc.
1050 17th Street, Suite 2500
Denver, CO. 80265-2080

New Mexico Oil Conservation Division
Engineering Bureau
1220 South St. Francis Drive
Santa Fe, NM 87505
March 7, 2011

Re: Big Gulp SWD #1, Administrative Order SWD-1209 maximum injection pressure increase.

McElvain Oil & Gas Properties, Inc, OGRID # 22044 is operator of the Big Gulp SWD #1, API # 30-45-35043. Current maximum allowable injection pressure is 759 psi. McElvain Oil and Gas Properties hereby applies for and increase in the maximum allowable injection pressure. This request is based upon a step rate test run on 3/2/2011. Please find attached:

- Administrative Application Checklist.
- Step rate pressure plot with bottom hole pressures as well as surface pressure versus injection rate.
- Step rate test generalized data.
- Pressure Graph of bottom hole pressure versus Time
- Bottom hole pressure data 1-minute intervals
- Pace Acidizing and Cementing surface treating report dated 3/2/2011

We await your response.

Sincerely



Art Merrick
District Engineer
505-327-2679
505-320-8938 cell

xc. New Mexico Oil Conservation Division
District Office.
1000 Rio Brazos Road
Aztec, NM 87410

3795' - 4000'
100' of
disposed
Intended