

APPENDIX B

B.1. All Data Using in this research

No.	Measured Pb ,psi	Temperature F ^r	API	Gas Specific Gravity	Rs SCF/STB
1	588	209.3	38.2	0.9043	165
2	153	188.9	38.5	1.0238	18.8
3	902	166.2	27	0.7311	130.7
4	227	205	37.6	1.188	30
5	830	152	25.1	0.702	94.8
6	480	173.3	30.6	0.7321	62.8
7	3812	210.3	39.7	1.0145	770
8	586	176.3	27.3	0.689	70.9
9	2257	181.58	33.66	0.8968	368.63
10	226	193.1	27.9	1.207	30.7
11	400	167.2	27.9	0.6983	52.3
12	1000	141.1	37.3	0.6678	134.3
13	500	213.6	39.9	1.1596	65.4
14	897	168	28.1	0.649	110.6
15	1987.7	164.7	30.6	0.6066	552
16	90	136	15.9	1.488	17
17	201	177.3	19.2	0.6727	28
18	303	147.2	20.4	0.608	28.1
19	710	212.8	38.3	0.9182	200
20	485	176.3	26.9	0.778	63.1
21	701	171.9	28.9	0.5915	78.5
22	460	199	42.6	1.267	89.1
23	555.33	147.8	21.2	0.65	19.9
24	249	165.1	21.4	1.461	41.2
25	203	162.5	27.637	0.9657	18.87
26	703	171.9	28.5	0.5981	79.2

No.	Measured Pb ,psi	Temperature F ^r	API	Gas Specific Gravity	Rs SCF/STB
27	243	199.7	65	1.118	91
28	1987.7	164.696	32.81	1.0023	528.51
29	146	239	29.7	0.921	8.1
30	2364	179.3	29.6	0.655	333
31	202	193.5	23.69	1.5039	54.826
32	902	166.2	26.4	1.15	129
33	1450	186.33	47.16	0.82598	596.78
34	105	124.3	17.6	1.488	25.2
35	152	242.7	31	1.171	22
36	243	199.7	64.9	1.118	91
37	56	150.8	21.9	0.9993	6.7
38	480	173.3	29.66	0.7321	64.86
39	773	167.2	29.5	0.6727	86.5
40	441	192.7	30.7	0.706	40.3
41	421	167	27.1	0.814	60.5
42	1001	166.2	27.9	1.0828	138.1
43	116	199.3	22.9	0.833	14.7
44	572	220.6	39.9	0.9305	111.1
45	202	171.9	23.3	1.4739	31.5
46	635	173	36.9	0.927	77.7
47	1790.1	160.9	29.1	0.6166	465.4
48	559.6	198.3	40.9	0.7624	106.1
49	1500	165	26	0.687	170
50	125	169.7	32.1	0.926	7.8
51	88	138.6	20.5	1.427	5.2
52	315	212	43.9	1.349	107.8
53	536.08	147.8	21.6	0.619	20
54	296	152.2	23	0.584	28.7
55	97	107.6	20.2	0.878	5.6

No.	Measured Pb ,psi	Temperature F	API	Gas Specific Gravity	Rs SCF/STB
56	2051	205	37.14	0.7804	425.7
57	946	156	32.8	0.836	144.9
58	701	171.9	27.5	0.5915	100
59	200	191.4	40.5	1.1547	40.6
60	200	191.4	38.9	1.1547	59
61	4155	228.7	40.1	0.8425	877.7
62	580	198	41.4	0.6665	119.1
63	438	168	34.8	0.686	57.2
64	588	209.3	39.89	0.9043	165
65	305	199	40.3	1.0085	77.3
66	928	152	25.8	0.651	103.1
67	640	173	37.3	0.716	78.6
68	309	175	32.8	1.465	59
69	245	147.8	21.1	0.619	20
70	720	168	33.8	0.686	98
71	703	171.9	28.5	0.54	79.2
72	763	172	29.1	0.6873	89.9
73	1506	160.92	34.12	0.69035	187.4
74	1790.1	160.9	26.8	0.6166	465.41
75	1287	166.2	28.1	0.684	146.3
76	579	209.3	38.2	0.8935	165
77	438	168	34.8	0.698	57.2
78	940	174.2	30.3	0.9581	220.9
79	88	138.6	39	1.427	7.1
80	710	212.8	38.8	0.9182	145
81	472	158.2	23.3	0.6	14.8
82	153	188.9	38.1	1.0238	18.8
83	588	209.3	39.9	0.9043	165
84	100	158	24.2	1.0999	22.634

No.	Measured Pb ,psi	Temperature F	API	Gas Specific Gravity	Rs SCF/STB
85	108	165.7	25.5	1.4754	19.3
86	1571	165	27	0.664	179.2
87	2110	230.9	43.4	0.8586	429
88	580	198.27	41.4	0.65972	119.286
89	175	165	26.8	0.876	24.7
90	315	212	43.7	1.349	107.8
91	120	150	20.9	0.7331	24
92	767	143.9	23.9	0.823	74.7
93	3812	210.3	37	1.0145	770.2
94	40	192	32.8	0.9635	8
95	572	220.6	39.7	0.9305	238.1
96	579	209.3	38.9	0.8935	165
97	111	206	37.5	1.259	14.4
98	593	167	27.5	0.674	83.3
99	145	147.8	20.7	0.769	12.8
100	864	168	28.5	0.645	109.3
101	81	183.6	21.7	1.3983	8.6
102	586	176.3	27.3	0.689	70.9
103	701	171.9	28.9	0.5915	78.5
104	3812	210.3	39.8	1.0145	770.2
105	1985	244	38.5	1.009	531.46
106	864	168	28.5	0.645	113.8
107	600	164.8	28.9	0.6678	80.2
108	2581	198.3	41.8	0.708	480
109	297	195	27.1	1.417	63
110	31	107.6	27.2	0.617	4.3
111	3179	210	38.2	0.823	641
112	825	152	24.4	0.669	84.5
113	119	158	24.2	1.0999	22.6

No.	Measured Pb ,psi	Temprature F'	API	Gas Specific Gravity	Rs SCF/STB
114	333.5	208.4	28.3	0.853	64.2
115	95	139.6	18.2	0.642	7.6
116	265	147.2	19.9	0.577	24.5
117	700	172	28.9	0.5915	80.2
118	225	201.7	30	1.485	29.9
119	271	136.4	21.8	0.714	26.3
120	2581	198.27	41.83	0.7256	480
121	500	173.3	30.1	0.7261	72.2
122	1982	199.9	39.6	1.058	665.62
123	990	174.2	37.3	0.9581	222.3
124	703	171.9	28.5	0.5981	79.2
125	145	131	22.8	1.0807	15
126	1332	231.8	38.6	1.042	366.2
127	305	199	40.4	1.0085	65.1
128	164	136.4	23.7	0.621	19.9
129	720	168	33.8	0.698	98
130	128	158	25.46	1.1268	25.8
131	733	167.18	29.5	0.6727	85.6
132	315	212	43.7	1.349	107.8
133	2364	179.3	29.6	0.655	333
134	220	171	36.5	1.081	40
135	217.5	190.4	25.3	0.9681	45.3
136	594	209.3	40.2	0.91085	166.8
137	1007	141.1	34.6	0.7029	166.6
138	520	176.3	27.3	0.782	67.3
139	301	205.56	31.489	1.5117	65.6
140	36	125.6	21.9	0.981	3.2
141	152	242.7	31.2	1.171	22
142	119	117.9	39	0.905	28.4

No.	Measured Pb ,psi	Temperature F	API	Gas Specific Gravity	Rs SCF/STB
143	1502	176	31.7	0.6225	216.2
144	2257	181.6	33.7	0.8969	368
145	210	147.8	21.2	0.65	19.9
146	460	199	42.6	1.267	89.1
147	773	167.2	29.5	0.6727	86.5
148	315	212	43.9	1.349	106.3
149	572.89	147.8	20.7	0.769	12.8
150	439	167	27.5	0.972	63.9
151	607	209.3	40.7	1.0211	166.8
152	1502	176	30.3	0.6181	220.9
153	1506	160.9	34.1	0.6904	187.4
154	1456	204.4	42.7	1.0362	438.8
155	309	198	40.8	1.426	69.7
156	106	194.4	23.3	0.838	8.5
157	108	192.9	21.3	0.909	8.2
158	215	187	23.7	1.154	34.7
159	263	199	43.6	1.463	54.7
160	200	178	21	0.746	15.9
161	422	142.5	24	0.912	42.6
162	190	202.5	21.6	0.862	11.2
163	96	161	23.8	0.887	8.7
164	383	195.6	22.5	0.879	34.5
165	1332	231.8	38.8	1.042	312.7
166	97	152.6	24	0.658	4.4
167	96	152.6	23.8	0.81	4.5
168	400	167.2	27.9	0.6983	54.4
169	773	167.2	29.5	0.6727	85.6
170	500	173.3	30.1	0.7261	72.2
171	480	173.3	30.6	0.7321	62.8

No.	Measured Pb ,psi	Temprature F'	API	Gas Specific Gravity	Rs SCF/STB
172	207	156.9	37.3	1.0452	35.6
173	67	107.6	23.6	0.767	4.6
174	439	167	27.5	0.972	63.9
175	593	167	27.1	0.814	83.3
176	421	167	27.5	0.674	60.5
177	1500	165	26	0.687	170
178	485	176.3	26.9	0.778	63.1
179	520	176.3	27.3	0.782	67.3
180	1190	222.8	38.2	0.8967	308.2
181	1790	160.9	26.8	0.6166	465.4
182	1987	164.7	32.8	0.6053	528.5
183	204	187.2	22.1	0.9038	23.5
184	129	187.6	33.9	1.381	19.7
185	219	181	38.7	1.53	24.6
186	198	184	39.7	1.447	37.6
187	344	198	24.3	1.141	42.4
188	410	174.6	33.7	1.45	62.4
189	1435	236	40.1	0.999	341
190	1435	236	40.1	1.071	242
191	129	152.6	24.4	0.717	10.4
192	103	126.5	20.8	1.258	4.8
193	633	177.2	30.6	1.0318	125.8
194	635	177.1	30.7	1.0365	126.7
195	637	177.1	30.7	1.0411	127.6
196	638	177.1	30.8	1.0458	128.5
197	640	177.0	30.8	1.0504	129.4
198	642	177.0	30.9	1.0551	130.3
199	644	176.9	30.9	1.0597	131.2
200	646	176.9	31.0	1.0644	132.1

No.	Measured Pb ,psi	Temprature F	API	Gas Specific Gravity	Rs SCF/STB
201	648	176.8	31.0	1.0691	133.0
202	650	176.8	31.0	1.0737	133.9
203	652	176.7	31.1	1.0784	134.8
204	654	176.7	31.1	1.0830	135.7
205	656	176.6	31.2	1.0877	136.6
206	658	176.6	31.2	1.0923	137.4
207	660	176.5	31.3	1.0970	138.3
208	662	176.5	31.3	1.1016	139.2
209	664	176.5	31.4	1.1063	140.1
210	666	176.4	31.4	1.1110	141.0
211	668	176.4	31.5	1.1156	141.9
212	670	176.3	31.5	1.1203	142.8



Train Data



Test Data