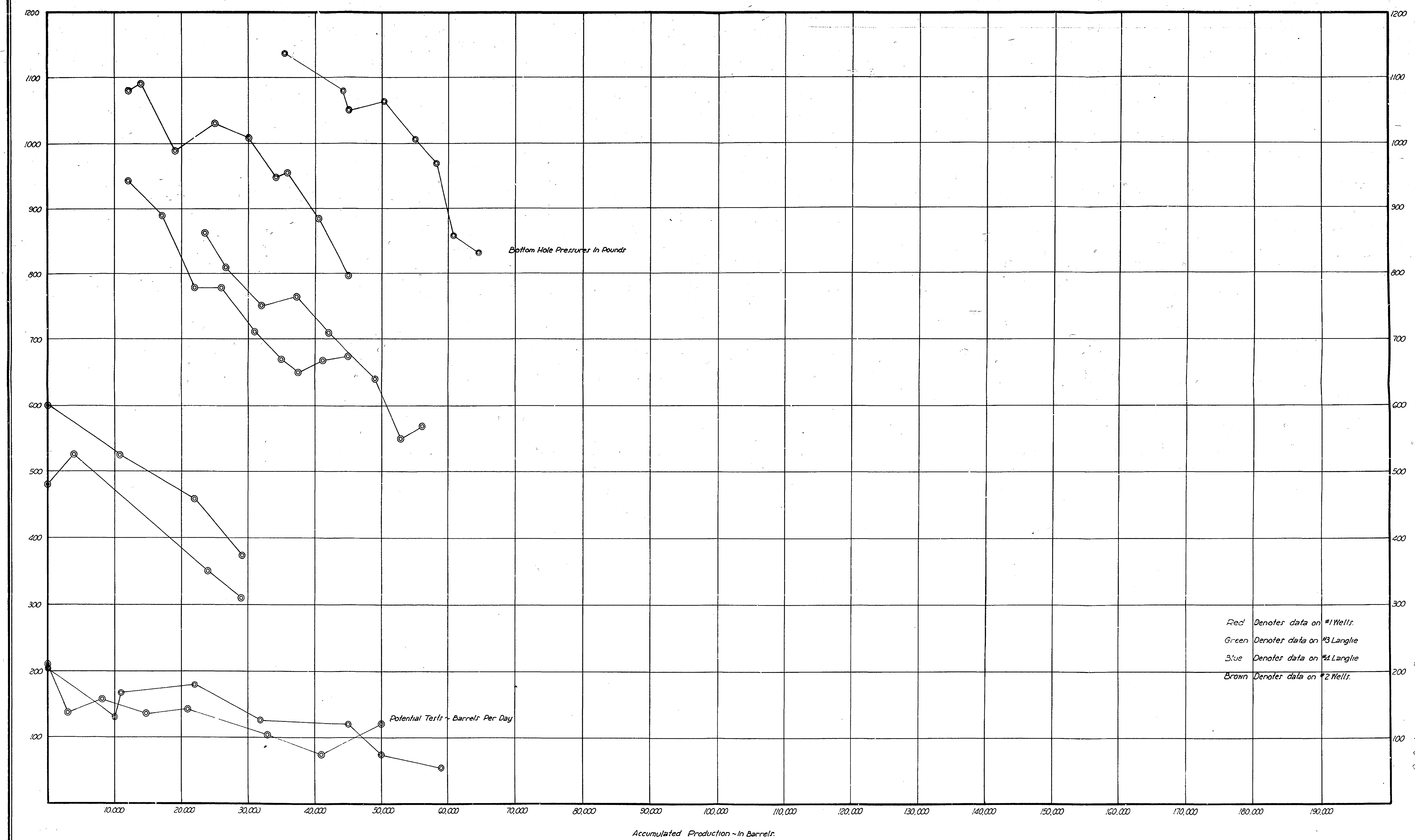


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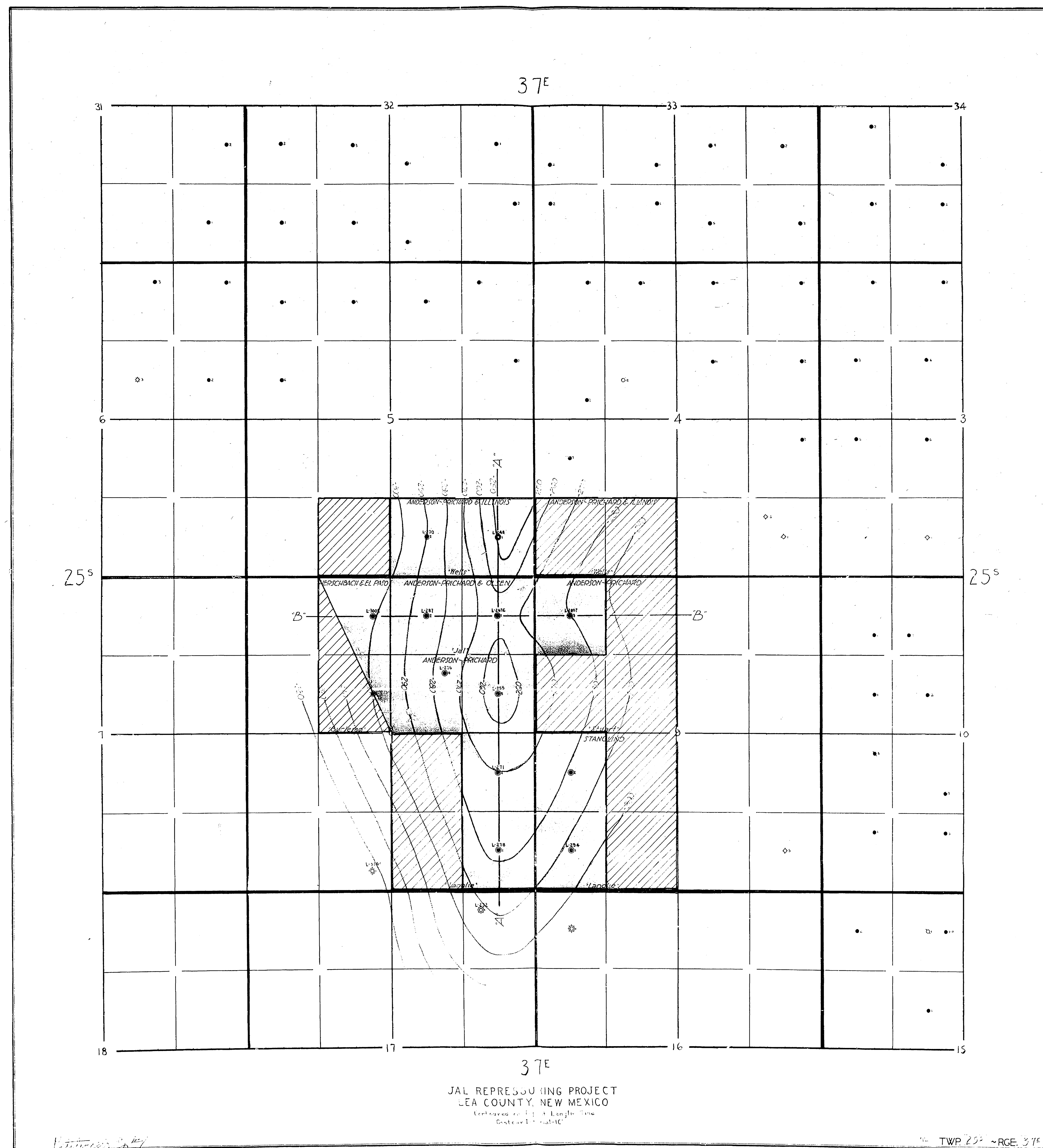
22 File #2

Large Exhibits

PRODUCTION AND PRESSURE DECLINE OF TYPE WELLS IN THE LANGLEIE FIELD



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R-37-E

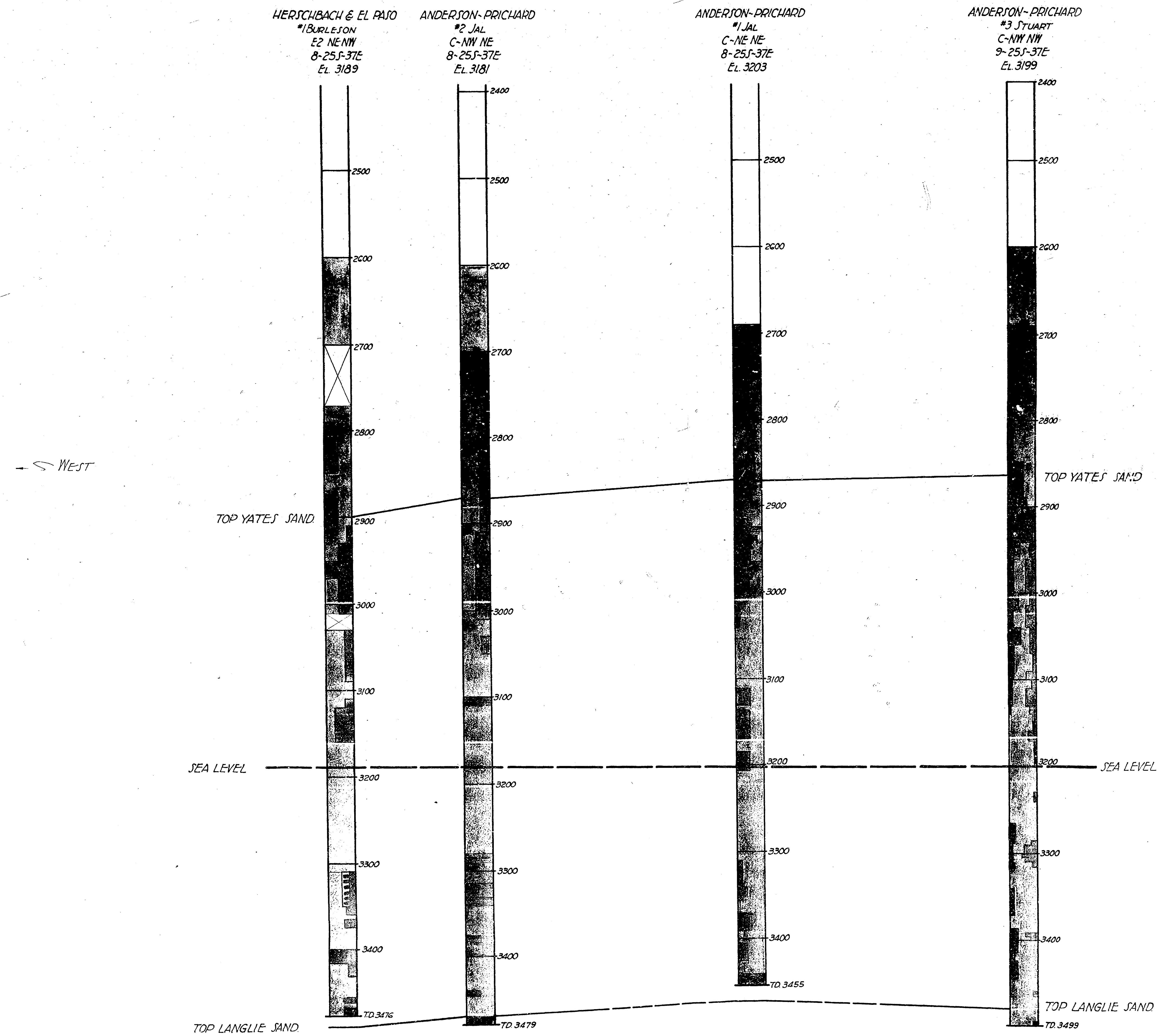
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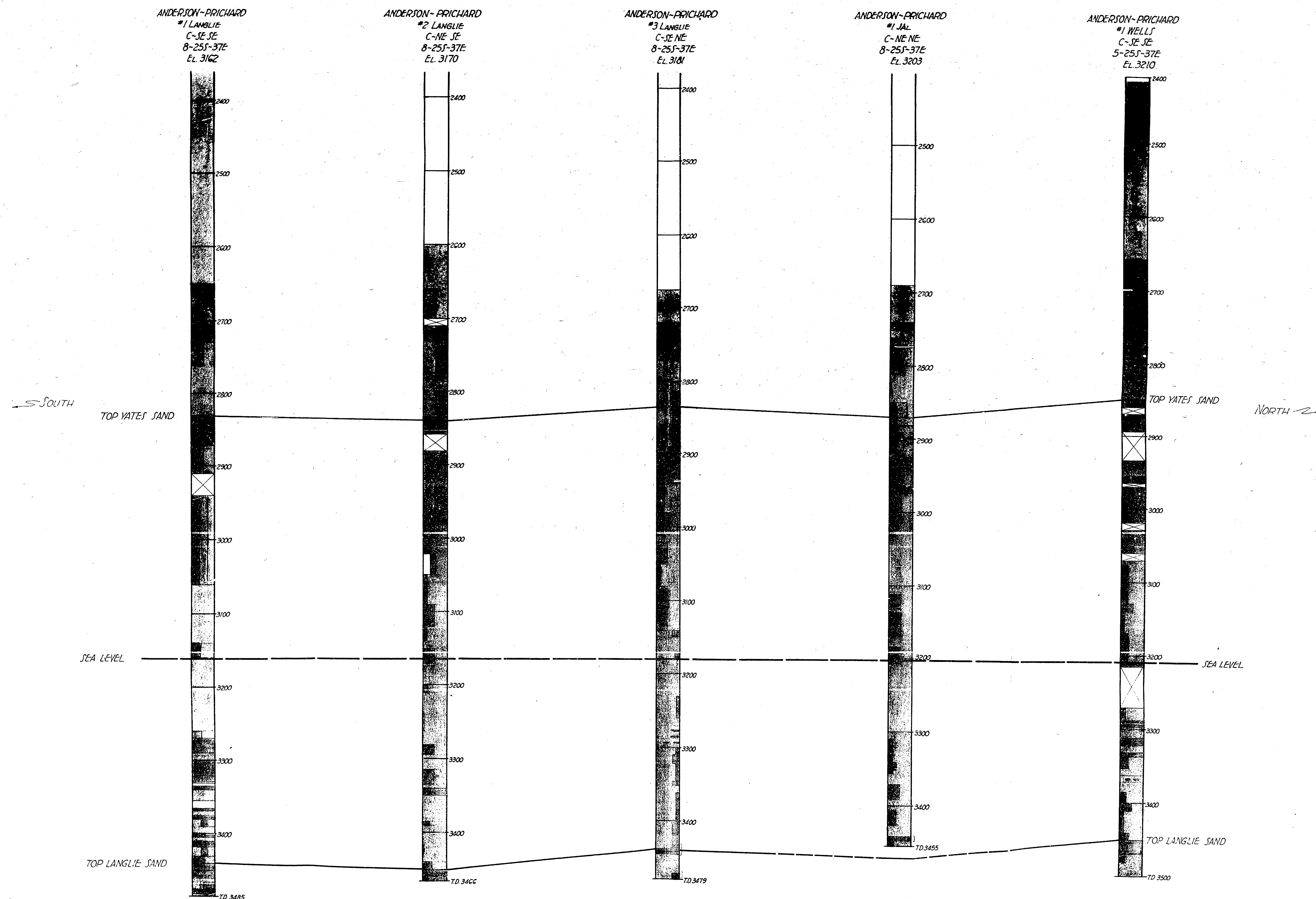
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CROSS SECTION B~B



CROSS SECTION A~A



WELL HISTORY

Langley #1

Date of Survey	Pressure	Bole. Produced Between Surveys
2-5-39	855#	
3-31-39	805#	322#
7-15-39	750#	518#
8-30-39	807#	
9-28-39	765#	461#
1-1-40	710#	540#

* Not regular surveys - well shut in 15 days

WELL HISTORY

Langley #1

This well was spudded 10-25-37 and drilled to total depth with rotary drilling equipment. Drillers logged shows of gas from sand 2800' to 2995' and 3004' to 3293'. A 2 1/2" casing was used for circulation fluid and the well drilled to the total depth without casing. At total depth 3455' 2 1/2" tubing was set at 3455'. Flowing then open tubing 15 ft from 30 in 24 hrs. with 25 MCF gas per day. It was then shut with 2 quarter inch test plug from 30 in 24 hrs. and 24 hours later from 3455' to 3460'. The well was killed with oil before running the shut in test. After cleaning out to bottom, 2 1/2" tubing was set at 3460'. Flowing then open tubing it produced 210 MCF in 24 hrs. with 1,000 MCF gas per day. Choked to 1 1/4" it produced 9000 in 24 hrs. with 233 MCF gas per day. Completed 11-30-37.

No other work was done on the well until 1-25-40 at which time it was dead. Tubing was then pulled and the well cleaned out to bottom, approximately 50' of casing having been found in the hole. Tubing was reset at 3477' with a Quiberson type 6-1 Control Valve. Head hook full hook set at 3221'. A Nixon type 103 surface control valve was set at 3211' and a Nixon type 107 30 Flow Valve set at 2865'. A standing was set below the meter at 3460'. The well was then unloaded with outside gas after which it flowed 94.80 in 1 hr thru 2 1/4" choke on its own gas. The following day, 1-31-40 it flowed 10200 on its own gas.

WELL HISTORY

Langley #1

1. 2 1/2" casing from 3455' to 3460' 2. 2 1/2" tubing from 3460' to 3477' 3. 2 1/2" tubing from 3477' to 3485' 4. 2 1/2" tubing from 3485' to 3495' 5. 2 1/2" tubing from 3495' to 3505' 6. 2 1/2" tubing from 3505' to 3515' 7. 2 1/2" tubing from 3515' to 3525' 8. 2 1/2" tubing from 3525' to 3535' 9. 2 1/2" tubing from 3535' to 3545' 10. 2 1/2" tubing from 3545' to 3555' 11. 2 1/2" tubing from 3555' to 3565' 12. 2 1/2" tubing from 3565' to 3575' 13. 2 1/2" tubing from 3575' to 3585' 14. 2 1/2" tubing from 3585' to 3595' 15. 2 1/2" tubing from 3595' to 3605' 16. 2 1/2" tubing from 3605' to 3615' 17. 2 1/2" tubing from 3615' to 3625' 18. 2 1/2" tubing from 3625' to 3635' 19. 2 1/2" tubing from 3635' to 3645' 20. 2 1/2" tubing from 3645' to 3655' 21. 2 1/2" tubing from 3655' to 3665' 22. 2 1/2" tubing from 3665' to 3675' 23. 2 1/2" tubing from 3675' to 3685' 24. 2 1/2" tubing from 3685' to 3695' 25. 2 1/2" tubing from 3695' to 3705' 26. 2 1/2" tubing from 3705' to 3715' 27. 2 1/2" tubing from 3715' to 3725' 28. 2 1/2" tubing from 3725' to 3735' 29. 2 1/2" tubing from 3735' to 3745' 30. 2 1/2" tubing from 3745' to 3755' 31. 2 1/2" tubing from 3755' to 3765' 32. 2 1/2" tubing from 3765' to 3775' 33. 2 1/2" tubing from 3775' to 3785' 34. 2 1/2" tubing from 3785' to 3795' 35. 2 1/2" tubing from 3795' to 3805' 36. 2 1/2" tubing from 3805' to 3815' 37. 2 1/2" tubing from 3815' to 3825' 38. 2 1/2" tubing from 3825' to 3835' 39. 2 1/2" tubing from 3835' to 3845' 40. 2 1/2" tubing from 3845' to 3855' 41. 2 1/2" tubing from 3855' to 3865' 42. 2 1/2" tubing from 3865' to 3875' 43. 2 1/2" tubing from 3875' to 3885' 44. 2 1/2" tubing from 3885' to 3895' 45. 2 1/2" tubing from 3895' to 3905' 46. 2 1/2" tubing from 3905' to 3915' 47. 2 1/2" tubing from 3915' to 3925' 48. 2 1/2" tubing from 3925' to 3935' 49. 2 1/2" tubing from 3935' to 3945' 50. 2 1/2" tubing from 3945' to 3955' 51. 2 1/2" tubing from 3955' to 3965' 52. 2 1/2" tubing from 3965' to 3975' 53. 2 1/2" tubing from 3975' to 3985' 54. 2 1/2" tubing from 3985' to 3995' 55. 2 1/2" tubing from 3995' to 4005' 56. 2 1/2" tubing from 4005' to 4015' 57. 2 1/2" tubing from 4015' to 4025' 58. 2 1/2" tubing from 4025' to 4035' 59. 2 1/2" tubing from 4035' to 4045' 60. 2 1/2" tubing from 4045' to 4055' 61. 2 1/2" tubing from 4055' to 4065' 62. 2 1/2" tubing from 4065' to 4075' 63. 2 1/2" tubing from 4075' to 4085' 64. 2 1/2" tubing from 4085' to 4095' 65. 2 1/2" tubing from 4095' to 4105' 66. 2 1/2" tubing from 4105' to 4115' 67. 2 1/2" tubing from 4115' to 4125' 68. 2 1/2" tubing from 4125' to 4135' 69. 2 1/2" tubing from 4135' to 4145' 70. 2 1/2" tubing from 4145' to 4155' 71. 2 1/2" tubing from 4155' to 4165' 72. 2 1/2" tubing from 4165' to 4175' 73. 2 1/2" tubing from 4175' to 4185' 74. 2 1/2" tubing from 4185' to 4195' 75. 2 1/2" tubing from 4195' to 4205' 76. 2 1/2" tubing from 4205' to 4215' 77. 2 1/2" tubing from 4215' to 4225' 78. 2 1/2" tubing from 4225' to 4235' 79. 2 1/2" tubing from 4235' to 4245' 80. 2 1/2" tubing from 4245' to 4255' 81. 2 1/2" tubing from 4255' to 4265' 82. 2 1/2" tubing from 4265' to 4275' 83. 2 1/2" tubing from 4275' to 4285' 84. 2 1/2" tubing from 4285' to 4295' 85. 2 1/2" tubing from 4295' to 4305' 86. 2 1/2" tubing from 4305' to 4315' 87. 2 1/2" tubing from 4315' to 4325' 88. 2 1/2" tubing from 4325' to 4335' 89. 2 1/2" tubing from 4335' to 4345' 90. 2 1/2" tubing from 4345' to 4355' 91. 2 1/2" tubing from 4355' to 4365' 92. 2 1/2" tubing from 4365' to 4375' 93. 2 1/2" tubing from 4375' to 4385' 94. 2 1/2" tubing from 4385' to 4395' 95. 2 1/2" tubing from 4395' to 4405' 96. 2 1/2" tubing from 4405' to 4415' 97. 2 1/2" tubing from 4415' to 4425' 98. 2 1/2" tubing from 4425' to 4435' 99. 2 1/2" tubing from 4435' to 4445' 100. 2 1/2" tubing from 4445' to 4455' 101. 2 1/2" tubing from 4455' to 4465' 102. 2 1/2" tubing from 4465' to 4475' 103. 2 1/2" tubing from 4475' to 4485' 104. 2 1/2" tubing from 4485' to 4495' 105. 2 1/2" tubing from 4495' to 4505' 106. 2 1/2" tubing from 4505' to 4515' 107. 2 1/2" tubing from 4515' to 4525' 108. 2 1/2" tubing from 4525' to 4535' 109. 2 1/2" tubing from 4535' to 4545' 110. 2 1/2" tubing from 4545' to 4555' 111. 2 1/2" tubing from 4555' to 4565' 112. 2 1/2" tubing from 4565' to 4575' 113. 2 1/2" tubing from 4575' to 4585' 114. 2 1/2" tubing from 4585' to 4595' 115. 2 1/2" tubing from 4595' to 4605' 116. 2 1/2" tubing from 4605' to 4615' 117. 2 1/2" tubing from 4615' to 4625' 118. 2 1/2" tubing from 4625' to 4635' 119. 2 1/2" tubing from 4635' to 4645' 120. 2 1/2" tubing from 4645' to 4655' 121. 2 1/2" tubing from 4655' to 4665' 122. 2 1/2" tubing from 4665' to 4675' 123. 2 1/2" tubing from 4675' to 4685' 124. 2 1/2" tubing from 4685' to 4695' 125. 2 1/2" tubing from 4695' to 4705' 126. 2 1/2" tubing from 4705' to 4715' 127. 2 1/2" tubing from 4715' to 4725' 128. 2 1/2" tubing from 4725' to 4735' 129. 2 1/2" tubing from 4735' to 4745' 130. 2 1/2" tubing from 4745' to 4755' 131. 2 1/2" tubing from 4755' to 4765' 132. 2 1/2" tubing from 4765' to 4775' 133. 2 1/2" tubing from 4775' to 4785' 134. 2 1/2" tubing from 4785' to 4795' 135. 2 1/2" tubing from 4795' to 4805' 136. 2 1/2" tubing from 4805' to 4815' 137. 2 1/2" tubing from 4815' to 4825' 138. 2 1/2" tubing from 4825' to 4835' 139. 2 1/2" tubing from 4835' to 4845' 140. 2 1/2" tubing from 4845' to 4855' 141. 2 1/2" tubing from 4855' to 4865' 142. 2 1/2" tubing from 4865' to 4875' 143. 2 1/2" tubing from 4875' to 4885' 144. 2 1/2" tubing from 4885' to 4895' 145. 2 1/2" tubing from 4895' to 4905' 146. 2 1/2" tubing from 4905' to 4915' 147. 2 1/2" tubing from 4915' to 4925' 148. 2 1/2" tubing from 4925' to 4935' 149. 2 1/2" tubing from 4935' to 4945' 150. 2 1/2" tubing from 4945' to 4955' 151. 2 1/2" tubing from 4955' to 4965' 152. 2 1/2" tubing from 4965' to 4975' 153. 2 1/2" tubing from 4975' to 4985' 154. 2 1/2" tubing from 4985' to 4995' 155. 2 1/2" tubing from 4995' to 5005' 156. 2 1/2" tubing from 5005' to 5015' 157. 2 1/2" tubing from 5015' to 5025' 158. 2 1/2" tubing from 5025' to 5035' 159. 2 1/2" tubing from 5035' to 5045' 160. 2 1/2" tubing from 5045' to 5055' 161. 2 1/2" tubing from 5055' to 5065' 162. 2 1/2" tubing from 5065' to 5075' 163. 2 1/2" tubing from 5075' to 5085' 164. 2 1/2" tubing from 5085' to 5095' 165. 2 1/2" tubing from 5095' to 5105' 166. 2 1/2" tubing from 5105' to 5115' 167. 2 1/2" tubing from 5115' to 5125' 168. 2 1/2" tubing from 5125' to 5135' 169. 2 1/2" tubing from 5135' to 5145' 170. 2 1/2" tubing from 5145' to 5155' 171. 2 1/2" tubing from 5155' to 5165' 172. 2 1/2" tubing from 5165' to 5175' 173. 2 1/2" tubing from 5175' to 5185' 174. 2 1/2" tubing from 5185' to 5195' 175. 2 1/2" tubing from 5195' to 5205' 176. 2 1/2" tubing from 5205' to 5215' 177. 2 1/2" tubing from 5215' to 5225' 178. 2 1/2" tubing from 5225' to 5235' 179. 2 1/2" tubing from 5235' to 5245' 180. 2 1/2" tubing from 5245' to 5255' 181. 2 1/2" tubing from 5255' to 5265' 182. 2 1/2" tubing from 5265' to 5275' 183. 2 1/2" tubing from 5275' to 5285' 184. 2 1/2" tubing from 5285' to 5295' 185. 2 1/2" tubing from 5295' to 5305' 186. 2 1/2" tubing from 5305' to 5315' 187. 2 1/2" tubing from 5315' to 5325' 188. 2 1/2" tubing from 5325' to 5335' 189. 2 1/2" tubing from 5335' to 5345' 190. 2 1/2" tubing from 5345' to 5355' 191. 2 1/2" tubing from 5355' to 5365' 192. 2 1/2" tubing from 5365' to 5375' 193. 2 1/2" tubing from 5375' to 5385' 194. 2 1/2" tubing from 5385' to 5395' 195. 2 1/2" tubing from 5395' to 5405' 196. 2 1/2" tubing from 5405' to 5415' 197. 2 1/2" tubing from 5415' to 5425' 198. 2 1/2" tubing from 5425' to 5435' 199. 2 1/2" tubing from 5435' to 5445' 200. 2 1/2" tubing from 5445' to 5455' 201. 2 1/2" tubing from 5455' to 5465' 202. 2 1/2" tubing from 5465' to 5475' 203. 2 1/2" tubing from 5475' to 5485' 204. 2 1/2" tubing from 5485' to 5495' 205. 2 1/2" tubing from 5495' to 5505' 206. 2 1/2" tubing from 5505' to 5515' 207. 2 1/2" tubing from 5515' to 5525' 208. 2 1/2" tubing from 5525' to 5535' 209. 2 1/2" tubing from 5535' to 5545' 210. 2 1/2" tubing from 5545' to 5555' 211. 2 1/2" tubing from 5555' to 5565' 212. 2 1/2" tubing from 5565' to 5575' 213. 2 1/2" tubing from 5575' to 5585' 214. 2 1/2" tubing from 5585' to 5595' 215. 2 1/2" tubing from 5595' to 5605' 216. 2 1/2" tubing from 5605' to 5615' 217. 2 1/2" tubing from 5615' to 5625' 218. 2 1/2" tubing from 5625' to 5635' 219. 2 1/2" tubing from 5635' to 5645' 220. 2 1/2" tubing from 5645' to 5655' 221. 2 1/2" tubing from 5655' to 5665' 222. 2 1/2" tubing from 5665' to 5675' 223. 2 1/2" tubing from 5675' to 5685' 224. 2 1/2" tubing from 5685' to 5695' 225. 2 1/2" tubing from 5695' to 5705' 226. 2 1/2" tubing from 5705' to 5715' 227. 2 1/2" tubing from 5715' to 5725' 228. 2 1/2" tubing from 5725' to 5735' 229. 2 1/2" tubing from 5735' to 5745' 230. 2 1/2" tubing from 5745' to 5755' 231. 2 1/2" tubing from 5755' to 5765' 232. 2 1/2" tubing from 5765' to 5775' 233. 2 1/2" tubing from 5775' to 5785' 234. 2 1/2" tubing from 5785' to 5795' 235. 2 1/2" tubing from 5795' to 5805' 236. 2 1/2" tubing from 5805' to 5815' 237. 2 1/2" tubing from 5815' to 5825' 238. 2 1/2" tubing from 5825' to 5835' 239. 2 1/2" tubing from 5835' to 5845' 240. 2 1/2" tubing from 5845' to 5855' 241. 2 1/2" tubing from 5855' to 5865' 242. 2 1/2" tubing from 5865' to 5875' 243. 2 1/2" tubing from 5875' to 5885' 244. 2 1/2" tubing from 5885' to 5895' 245. 2 1/2" tubing from 5895' to 5905' 246. 2 1/2" tubing from 5905' to 5915' 247. 2 1/2" tubing from 5915' to 5925' 248. 2 1/2" tubing from 5925' to 5935' 249. 2 1/2" tubing from 5935' to 5945' 250. 2 1/2" tubing from 5945' to 5955' 251. 2 1/2" tubing from 5955' to 5965' 252. 2 1/2" tubing from 5965' to 5975' 253. 2 1/2" tubing from 5975' to 5985' 254. 2 1/2" tubing from 5985' to 5995' 255. 2 1/2" tubing from 5995' to 6005' 256. 2 1/2" tubing from 6005' to 6015' 257. 2 1/2" tubing from 6015' to 6025' 258. 2 1/2" tubing from 6025' to 6035' 259. 2 1/2" tubing from 6035' to 6045' 260. 2 1/2" tubing from 6045' to 6055' 261. 2 1/2" tubing from 6055' to 6065' 262. 2 1/2" tubing from 6065' to 6075' 263. 2 1/2" tubing from 6075' to 6085' 264. 2 1/2" tubing from 6085' to 6095' 265. 2 1/2" tubing from 6095' to 6105' 266. 2 1/2" tubing from 6105' to 6115' 267. 2 1/2" tubing from 6115' to 6125' 268. 2 1/2" tubing from 6125' to 6135' 269. 2 1/2" tubing from 6135' to 6145' 270. 2 1/2" tubing from 6145' to 6155' 271. 2 1/2" tubing from 6155' to 6165' 272. 2 1/2" tubing from 6165' to 6175' 273. 2 1/2" tubing from 6175' to 6185' 274. 2 1/2" tubing from 6185' to 6195' 275. 2 1/2" tubing from 6195' to 6205' 276. 2 1/2" tubing from 6205' to 6215' 277. 2 1/2" tubing from 6215' to 6225' 278. 2 1/2" tubing from 6225' to 6235' 279. 2 1/2" tubing from 6235' to 6245' 280. 2 1/2" tubing from 6245' to 6255' 281. 2 1/2" tubing from 6255' to 6265' 282. 2 1/2" tubing from 6265' to 6275' 283. 2 1/2" tubing from 6275' to 6285' 284. 2 1/2" tubing from 6285' to 6295' 285. 2 1/2" tubing from 6295' to 6305' 286. 2 1/2" tubing from 6305' to 6315' 287. 2 1/2" tubing from 6315' to 6325' 288. 2 1/2" tubing from 6325' to 6335' 289. 2 1/2" tubing from 6335' to 6345' 290. 2 1/2" tubing from 6345' to 6355' 291. 2 1/2" tubing from 6355' to 6365' 292. 2 1/2" tubing from 6365' to 6375' 293. 2 1/2" tubing from 6375' to 6385' 294. 2 1/2" tubing from 6385' to 6395' 295. 2 1/2" tubing from 6395' to 6405' 296. 2 1/2" tubing from 6405' to 6415' 297. 2 1/2" tubing from 6415' to 6425' 298. 2 1/2" tubing from 6425' to 6435' 299. 2 1/2" tubing from 6435' to 6445' 300. 2 1/2" tubing from 6445' to 6455' 301. 2 1/2" tubing from 6455' to 6465' 302. 2 1/2" tubing from 6465' to 6475' 303. 2 1/2" tubing from 6475' to 6485' 304. 2 1/2" tubing from 6485' to 6495' 305. 2 1/2" tubing from 6495' to 6505' 306. 2 1/2" tubing from 6505' to 6515' 307. 2 1/2" tubing from 6515' to 6525' 308. 2 1/2" tubing from 6525' to 6535' 309. 2 1/2" tubing from 6535' to 6545' 310. 2 1/2" tubing from 6545' to 6555' 311. 2 1/2" tubing from 6555' to 6565' 312. 2 1/2" tubing from 6565' to 6575' 313. 2 1/2" tubing from 6575' to 6585' 314. 2 1/2" tubing from 6585' to 6595' 315. 2 1/2" tubing from 6595' to 6605' 316. 2 1/2" tubing from 6605' to 6615' 317. 2 1/2" tubing from 6615' to 6625' 318. 2 1/2" tubing from 6625' to 6635' 319. 2 1/2" tubing from 6635' to 6645' 320. 2 1/2" tubing from 6645' to 6655' 321. 2 1/2" tubing from 6655' to 6665' 322. 2 1/2" tubing from 6665' to 6675' 323. 2 1/2" tubing from 6675' to 6685' 324. 2 1/2" tubing from 6685' to 6695' 325. 2 1/2" tubing from 6695' to 6705' 326. 2 1/2" tubing from 6705' to 6715' 327. 2 1/2" tubing from 6715' to 6725' 328. 2 1/2" tubing from 6725' to 6735' 329. 2 1/2" tubing from 6735' to 6745' 330. 2 1/2" tubing from 6745' to 6755' 331. 2 1/2" tubing from 6755' to 6765' 332. 2 1/2" tubing from 6765' to 6775' 333. 2 1/2" tubing from 6775' to 6785' 334. 2 1/2" tubing from 6785' to 6795' 335. 2 1/2" tubing from 6795' to 6805' 336. 2 1/2" tubing from 6805' to 6815' 337. 2 1/2" tubing from 6815' to 6825' 338. 2 1/2" tubing from 6825' to 6835' 339. 2 1/2" tubing from 6835' to 6845' 340. 2 1/2" tubing from 6845' to 6855' 341. 2 1/2" tubing from 6855' to 6865' 342. 2 1/2" tubing from 6865' to 6875' 343. 2 1/2" tubing from 6875' to 6885' 344. 2 1/2" tubing from 6885' to 6895' 345. 2 1/2" tubing from 6895' to 6905' 346. 2 1/2" tubing from 6905' to 6915' 347. 2 1/2" tubing from 6915' to 6925' 348. 2 1/2" tubing from 6925' to 6935' 349. 2 1/2" tubing from 6935' to 6945' 350. 2 1/2" tubing from 6945' to 6955' 351. 2 1/2" tubing from 6955' to 6965' 352. 2 1/2" tubing from 6965' to 6975' 353. 2 1/2" tubing from 6975' to 6985' 354. 2 1/2" tubing from 6985' to 6995' 355. 2 1/2" tubing from 6995' to 7005' 356. 2 1/2" tubing from 7005' to 7015' 357. 2 1/2" tubing from 7015' to 7025' 358. 2 1/2" tubing from 7025' to 7035' 359. 2 1/2" tubing from 7035' to 7045' 360. 2 1/2" tubing from 7045' to 7055' 361. 2 1/2" tubing from 7055' to 7065' 362. 2 1/2" 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7325' 388. 2 1/2" tubing from 7325' to 7335' 389. 2 1/2" tubing from 7335' to 7345' 390. 2 1/2" tubing from 7345' to 7355' 391. 2 1/2" tubing from 7355' to 7365' 392. 2 1/2" tubing from 7365' to 7375' 393. 2 1/2" tubing from 7375' to 7385' 394. 2 1/2" tubing from 7385' to 7395' 395. 2 1/2" tubing from 7395' to 7405' 396. 2 1/2" tubing from 7405' to 7415' 397. 2 1/2" tubing from 7415' to 7425' 398. 2 1/2" tubing from 7425' to 7435' 399. 2 1/2" tubing from 7435' to 7445' 400. 2 1/2" tubing from 7445' to 7455' 401. 2 1/2" tubing from 7455' to 7465' 402. 2 1/2" tubing from 7465' to 7475' 403. 2 1/2" tubing from 7475' to 7485' 404. 2 1/2" tubing from 7485' to 7495' 405. 2 1/2" tubing from 7495' to 7505' 406. 2 1/2" tubing from 7505' to 7515' 407. 2 1/2" tubing from 7515' to 7525' 408. 2 1/2" tubing from 7525' to 7535' 409. 2 1/2" tubing from 7535' to 7545' 410. 2 1/2" tubing from 7545' to 7555' 411. 2 1/2" tubing from 7555' to 7565' 412. 2 1/2" tubing from 7565' to 7575' 413. 2 1/2" tubing from 7575' to 7585' 414. 2 1/2" tubing from 7585' to 7595' 415. 2 1/2" tubing from 7595' to 7605' 416. 2 1/2" tubing from 7605' to 7615' 417. 2 1/2" tubing from 7615' to 7625' 418. 2 1/2" tubing from 7625' to 7635' 419. 2 1/2" tubing from 7635' to 7645' 420. 2

Jul 21

* Not regular survey - well shut in 15 days

WELL EQUIPMENT

3400' 2 7/8" OD 6.50# 10 ths API

JAL 01 0 02

P. Olsen Oil Company 50% of Working Interest

set at 3200'. The well was then swabbed in and tested for

JAL 12

100

800 to 810	35	1300 to 1400	10
20	25	10	

20	10	2200	10	80	95
30	10	10	10		

120	3354 to 3355	18
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1140	60	130	56	19	13	23
			57	19	14	12

1954-1955

August - 1938

Jal #2

Exhs. Produced

NOTES

WILL EQUITASITY

3282' 7" OD 22 1/2" API G4 B Blk Gals Casing
3340' 9 5/8" OD 24 1/2" Blk Gals Casing

JAL #1-2

1 9' x 16' Cattle Guard
1103' 8" 5.75# Std Blk Lx Line Pipe

3 ELLS 81

SELL INFORMATION

Elevation

Top anhydrite	1080
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Royalty Division

Accumulated Production to January 1, 1940

CELLS #1

3287' 5 1/2" OD 17 1/2 Ygsn API Cd C Blk Smle Casing

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100. Небольшая часть

Wells 91

10	75	76	30	35	35
20	180	77	10	38	35

Wells 81

3353	3353	10	27	70	1
	87	11	28	16	
	88	9	29	14	2

100. Небольшая часть

ROYALTY INTEREST

WELLS #1 & #2	
Commissioner General Land Office Des Moines, Iowa	Sliding Scale Government Royalty of Pipe Line Runs
E. J. Wells 7822 12th Street N.W. Washington, D. C.	.0039820 of 8/8 Permitted Royalty of Pipe Line Runs
Indian Petroleum Corp. 331 Sutter Street San Francisco, California	.0039701 of 8/8 Permitted Royalty of Pipe Line Runs
Red Feather Oil Co. 701 Sykes Bldg. Denver, Colorado	.0031250 of 8/8 Permitted Royalty of Pipe Line Runs
Ella M. Stevens San Clemente, California	.0006828 of 8/8 Permitted Royalty of Pipe Line Runs
L. E. Armstrong Marine, Wyoming	.0013189 of 8/8 Permitted Royalty of Pipe Line Runs
C. A. Brown Marine, Wyoming	.0013189 of 8/8 Permitted Royalty of Pipe Line Runs
Beattie Olanstein 3460 E. 1st Street Long Beach, California	.001189 of 8/8 Permitted Royalty of Pipe Line Runs
J. L. Pearson 321 Sutter Street San Francisco, California	.0004484 of 8/8 Permitted Royalty of Pipe Line Runs
T. L. Melville Higgins Building Los Angeles, California	.0004484 of 8/8 Permitted Royalty of Pipe Line Runs
Martin J. Wall, Mary E. Schreindt & Elizabeth Ann Wall 575 S. L. Wall Higgins, Building Los Angeles, California	.0004484 of 8/8 Permitted Royalty of Pipe Line Runs
Alice C. Henry, Executive of Estate of Fred C. Henry, Deceased 802 Windland Savings Bank Bldg. Denver, Colorado	.0005884 of 8/8 Permitted Royalty of Pipe Line Runs

ROYALTY INTEREST

WELLS #1 & #2

The Illinois Oil Company c/o First National Bank of Chicago Chicago, Illinois (210 Guardian Life Bldg., Dallas, Texas)	50% of Working Interest
First National Bank of Chicago Chicago, Illinois	50% of Working Interest

ANDERSON-REICHARD OIL CORP.

WELLS #2

WELL INFORMATION

Casing Record	2-5/8" OD - 1145' - 500 sacks
Special Equipment	None
Tubing Record	2 1/2" at 3480'

GEOLOGICAL INFORMATION

Elevation	3807'
Top Anhydrite	1095'
Base Salt	2710'
Top Brown Line	2730'
Top Yates Sand	2900'
Gas Shows	2788-3099 (1 1/2 million)
Total Depth	3504'
Oil Zones	3400-30 and 3470-80
Drilling Time	Attached
Special Tests	Attached

GENERAL INFORMATION

Royalty Division	Attached to Wells #1 Well Record
Accumulated Production to January 1, 1940	27,109
Initial Production	120 BOPD natural, shot 340 qts. 3390-2556 then flowed 480 BOPD

WELL HISTORY

Wells #2

This well was spudded 6-4-36 and drilled with rotary equipment to total depth, 3504'. A show of gas was logged in sand 3000-3099. A drill stem test was made from 2708' to 3099'. The tester was open 21 minutes and showed 1 million gas and 370' drilling fluid with no oil. After cementing 2" casing at 3308' oil was used for circulating fluid. No tests were made until the well had been drilled to its total depth of 3504'. Flowing thru 7" casing with 3 1/2" OD drill pipe in the hole it produced 8 BOPD (by heads every 2 1/2 hours) with 100 MCF gas per day. It was then shot from 3390' to 3504' with 340 quartz SAG. After cleaning out to bottom 2 1/2" tubing was set at 3480'. Flowing thru open tubing it produced 840 BOPD in 1 1/2 hours, the gases during last hour of test being 80 bbl. One/Oil ratio 1300. Production settled to 12 BOPD the last 16 hours of 80 hour test. Completed 7-5-36.

WELLS #2

DRILLING TIME

250 to 300	12	880 to 940	40	1220 to 40	24
300 to 350	20	940 to 1000	40	40 to 50	25
350 to 400	20	1000 to 1060	40	50 to 60	25
400 to 450	20	1060 to 1120	40	60 to 70	25
450 to 500	20	1120 to 1180	40	70 to 80	25
500 to 550	20	1180 to 1240	40	80 to 90	25
550 to 600	20	1240 to 1300	40	90 to 100	25
600 to 650	20	1300 to 1360	40	100 to 110	25
650 to 700	20	1360 to 1420	40	110 to 120	25
700 to 750	20	1420 to 1480	40	120 to 130	25
750 to 800	20	1480 to 1540	40	130 to 140	25
800 to 850	20	1540 to 1600	40	140 to 150	25
850 to 900	20	1600 to 1660	40	150 to 160	25
900 to 950	20	1660 to 1720	40	160 to 170	25
950 to 1000	20	1720 to 1780	40	170 to 180	25
1000 to 1050	20	1780 to 1840	40	180 to 190	25
1050 to 1100	20	1840 to 1900	40	190 to 200	25
1100 to 1150	20	1900 to 1960	40	200 to 210	25
1150 to 1200	20	1960 to 2020	40	210 to 220	25
1200 to 1250	20	2020 to 2080	40	220 to 230	25
1250 to 1300	20	2080 to 2140	40	230 to 240	25
1300 to 1350	20	2140 to 2200	40	240 to 250	25
1350 to 1400	20	2200 to 2260	40	250 to 260	25
1400 to 1450	20	2260 to 2320	40	260 to 270	25
1450 to 1500	20	2320 to 2380	40	270 to 280	25
1500 to 1550	20	2380 to 2440	40	280 to 290	25
1550 to 1600	20	2440 to 2500	40	290 to 300	25
1600 to 1650	20	2500 to 2560	40	300 to 310	25
1650 to 1700	20	2560 to 2620	40	310 to 320	25
1700 to 1750	20	2620 to 2680	40	320 to 330	25
1750 to 1800	20	2680 to 2740	40	330 to 340	25
1800 to 1850	20	2740 to 2800	40	340 to 350	25
1850 to 1900	20	2800 to 2860	40	350 to 360	25
1900 to 1950	20	2860 to 2920	40	360 to 370	25
1950 to 2000	20	2920 to 2980	40	370 to 380	25
2000 to 2050	20	2980 to 3040	40	380 to 390	25
2050 to 2100	20	3040 to 3100	40	390 to 400	25
2100 to 2150	20	3100 to 3160	40	400 to 410	25
2150 to 2200	20	3160 to 3220	40	410 to 420	25
2200 to 2250	20	3220 to 3280	40	420 to 430	25
2250 to 2300	20	3280 to 3340	40	430 to 440	25
2300 to 2350	20	3340 to 3400	40	440 to 450	25
2350 to 2400	20	3400 to 3460	40	450 to 460	25
2400 to 2450	20	3460 to 3520	40	460 to 470	25
2450 to 2500	20	3520 to 3580	40	470 to 480	25
2500 to 2550	20	3580 to 3640	40	480 to 490	25
2550 to 2600	20	3640 to 3700	40	490 to 500	25
2600 to 2650	20	3700 to 3760	40	500 to 510	25
2650 to 2700	20	3760 to 3820	40	510 to 520	25
2700 to 2750	20	3820 to 3880	40	520 to 530	25
2750 to 2800	20	3880 to 3940	40	530 to 540	25
2800 to 2850	20	3940 to 4000	40	540 to 550	25
2850 to 2900	20	4000 to 4060	40	550 to 560	25
2900 to 2950	20	4060 to 4120	40	560 to 570	25
2950 to 3000	20	4120 to 4180	40	570 to 580	25
3000 to 3050	20	4180 to 4240	40	580 to 590	25
3050 to 3100	20	4240 to 4300	40	590 to 600	25
3100 to 3150	20	4300 to 4360	40	600 to 610	25
3150 to 3200	20	4360 to 4420	40	610 to 620	25
3200 to 3250	20	4420 to 4480	40	620 to 630	25
3250 to 3300	20	4480 to 4540	40	630 to 640	25
3300 to 3350	20	4540 to 4600	40	640 to 650	25
3350 to 3400	20	4600 to 4660	40	650 to 660	25
3400 to 3450	20	4660 to 4720	40	660 to 670	25
3450 to 3500	20	4720 to 4780	40	670 to 680	25
3500 to 3550	20	4780 to 4840	40	680 to 690	25
3550 to 3600	20	4840 to 4900	40	690 to 700	25
3600 to 3650	20	4900 to 4960	40	700 to 710	25
3650 to 3700	20	4960 to 5020	40	710 to 720	25
3700 to 3750	20	5020 to 5080	40	720 to 730	25
3750 to 3800	20	5080 to 5140	40	730 to 740	25
3800 to 3850	20	5140 to 5200	40	740 to 750	25
3850 to 3900	20	5200 to 5260	40	750 to 760	25
3900 to 3950	20	5260 to 5320	40	760 to 770	25
3950 to 4000	20	5320 to 5380	40	770 to 780	25
4000 to 4050	20	5380 to 5440	40	780 to 790	25
4050 to 4100	20	5440 to 5500	40	790 to 800	25
4100 to 4150	20	5500 to 5560	40	800 to 810	25
4150 to 4200	20	5560 to 5620	40	810 to 820	25
4200 to 4250	20	5620 to 5680	40	820 to 830	25
4250 to 4300	20	5680 to 5740	40	830 to 840	25
4300 to 4350	20	5740 to 5800	40	840 to 850	25
4350 to 4400	20	5800 to 5860	40	850 to 860	25
4400 to 4450	20	5860 to 5920	40	860 to 870	25
4450 to 4500	20	5920 to 5980	40	870 to 880	25
4500 to 4550	20	5980 to 6040	40	880 to 890	25
4550 to 4600	20	6040 to 6100	40	890 to 900	25
4600 to 4650	20	6100 to 6160	40	900 to 910	25
4650 to 4700	20	6160 to 6220	40	910 to 920	25
4700 to 4750	20	6220 to 6280	40	920 to 930	25
4750 to 4800	20	6280 to 6340	40	930 to 940	25
4800 to 4850	20	6340 to 6400	40	940 to 950	25
4850 to 4900	20	6400 to 6460	40	950 to 960	25
4900 to 4950	20	6460 to 6520	40	960 to 970	25
4950 to 5000	20	6520 to 6580	40	970 to 980	25
5000 to 5050	20	6580 to 6640	40	980 to 990	25
5050 to 5100	20	6640 to 6700	40	990 to 1000	25
5100 to 5150	20	6700 to 6760	40	1000 to 1010	25
5150 to 5200	20	6760 to 6820	40	1010 to 1020	25
5200 to 5250	20	6820 to 6880	40	1020 to 1030	25
5250 to 5300	20	6880 to 6940	40	1030 to 1040	25
5300 to 5350	20	6940 to 7000	40	1040 to 1050	25
5350 to 5400	20	7000 to 7060	40	1050 to 1060	25
5400 to 5450	20	7060 to 7120	40	1060 to 1070	25
5450 to 5500	20	7120 to 7180	40	1070 to 1080	25
5500 to 5550	20	7180 to 7240	40	1080 to 1090	25
5550 to 5600	20	7240 to 7300	40	1090 to 1100	25
5600 to 5650	20	7300 to 7360	40	1100 to 1110	25
5650 to 5700	20	7360 to 7420	40	1110 to 1120	25
5700 to 5750	20	7420 to 7480	40	1120 to 1130	25
5750 to 5800	20	7480 to 7540	40	1130 to 1140	25
5800 to 5850	20	7540 to 7600	40	1140 to 1150	25
5850 to 5900	20	7600 to 7660	40	1150 to 1160	25
5900 to 5950	20	7660 to 7720	40	1160 to 1170	25
5950 to 6000	20	7720 to 7780	40	1170 to 1180	25
6000 to 6050	20	7780 to 7840	40	1180 to 1190	25
6050 to 6100	20	7840 to 7900	40	1190 to 1200	25
6100 to 6150	20	7900 to 7960	40	1200 to 1210	25
6150 to 6200	20	7960 to 8020	40	1210 to 1220	25
6200 to 6250	20	8020 to 8080	40	1220 to 1230	25
6250 to 6300	20	8080 to 8140	40	1230 to 1240	25
6300 to 6350	20	8140 to 8200	40	1240 to 1250	25
6350 to 6400	20	8200 to 8260	40	1250 to 1260	25
6400 to 6450	20	8260 to 8320	40	1260 to 1270	25
6450 to 6500	20	8320 to 8380	40	1270 to 1280	25
6500 to 6550	20	8380 to 8440	40	1280 to 1290	25
6550 to 6600	20	8440 to 8500	40	1290 to 1300	25
6600 to 6650	20	8500 to 8560	40	1300 to 1310	25
6650 to 6700	20	8560 to 8620	40	1310 to 1320	25
6700 to 6750	20	8620 to 8680	40	1320 to 1330	25
6750 to 6800	20	8680 to 8740	40	1330 to 1340	25
6800 to 6850	20	8740 to 8800	40	1340 to 1350	25
6850 to 6900	20	8800 to 8860	40	1350 to 1360	25
6900 to 6950	20	8860 to 8920	40	1360 to 1370	25
6950 to 7000	20	8920 to 8980	40	1370 to 1380	25
7000 to 7050	20	8980 to 9040	40	1380 to 1390	25
7050 to 7100	20	9040 to 9100	40	1390 to 1400	25
7100 to 7150	20	9100 to 9160	40	1400 to 1410	25
7150 to 7200	20	9160 to 9220	40	1410 to 1420	25
7200 to 7250	20	9220 to 9280	40	1420 to 1430	25
7250 to 7300	20	9280 to 9340	40	1430 to 1440	25
7300 to 7350	20	9340 to 9400	40	1440 to 1450	25
7350 to 7400	20	9400 to 9460	40	1450 to 1460	25
7400 to 7450	20	9460 to 9520	40	1460 to 1470	25
7450 to 7500	20	9520 to 9580	40	1470 to 1480	25
7500 to 7550	20	9580 to 9640	40	1480 to 1490	25
7550 to 7600	20	9640 to 9700	40	1490 to 1500	25
7600 to 7650	20	9700 to 9760	40	1500 to 1510	25
7650 to 7700	20	9760 to 9820	40	1510 to 1520	25
7700 to 7750	20	9820 to 9880	40	1520 to 1530	25
7750 to 7800	20	9880 to 9940	40	1530 to 1540	25
7800 to 7850	20	9940 to 10000	40	1540 to 1550	25
7850 to 7900	20		40	1550 to 1560	25
7900 to 7950	20		40	1560 to 1570	25
7950 to 8000	20		40	1570 to 1580	25
8000 to 8050	20		40	1580 to 1590	25
8050 to 8100	20		40	1590 to 1600	25
8100 to 8150	20		40	1600 to 1610	25
8150 to 8200	20		40	1610 to 1620	25
8200 to 8250	20		40	1620 to 1630	25
8250 to 8300	20		40	1630 to 1640	25
8300 to 8350	20		40	1640 to 1650	25
8350 to 8400	20		40	1650 to 1660	25
8400 to 8450	20		40	1660 to 1670	25
8450 to 8500	20		40	1670 to 1680	25
8500 to 8550	20		40	1680 to 1690	25
8550 to 8600	20		40	1690 to 1700	25
8600 to 8650	20		40	1700 to 1710	25
8650 to 8700	20		40	1710 to 1720	25
8700 to 8750	20		40	1720 to 1730	25
8750 to 8800	20		40	1730 to 1740	25
8800 to 8850	20		40	1740 to 1750	25
8850 to 8900	20		40	1750 to 1760	25
8900 to 8950	20		40	1760 to 1770	25
8950 to 9000	20		40	1770 to 1780	25
9000 to 9050	20		40	1780 to 1790	25
9050 to 9100	20		40	1790 to 1800	25
9100 to 9150	20		40	1800 to 1810	25
9150 to 9200	20		40	1810 to 1820	25
9200 to 9250	20		40	1820 to 1830	25
9250 to 9300	20		40	1830 to 1840	25
9300 to 9350	20		40	1840 to 1850	25
9350 to 9400	20		40	1850 to 1860	25
9400 to 9450	20		40	1860 to 1870	25
9450 to 9500	20		40	1870 to 1880	25
9500 to 9550	20				

WESTERN GAS CO. MEMPHIS #1

WELL INFORMATION

Casing Record	12 1/2" - 266'-200 sax
	5 1/8" - 275' - 900 sax
	5 1/4" - 324' - 25 sax
Special Equipment	None
Tubing Record	2" - 3129'

GEOLOGICAL INFORMATION

Elevation	3189
Top Anhydrite	1070
Base Salt	2650
Top Brown Line	2780
Top Yates Sand	2920
Gas Shows	2938'-52' 1,100 scf 2990'
Total Depth	3475'
Oil Zones (Drilling time & Samples)	
	312'-57'
	334'-70'
	338'-109'
	343'-32'
	345'-65'

Drilling Time Attached

GENERAL INFORMATION

Royalty Division	Attached
Accumulated Production to January 1, 1940	33,617 bbls.
Initial Production	2.2 bbl/hr. One Lift Gas and DP, Shot 300 csg. 3353' x 40' x 40' After Shot #1, 1P 6.4 bbl/hr.

3361	to	3362	25	3415	to	3416	23	3472-73	10
		63	15			17	12	73-74	11
		61	22			19	11		

66	4	20	4
67	2	21	9
68	5	22	25
69	4	23	21
70	4	24	21

72	25	26	27
73	32	27	26
74	25	28	27
75	10	29	28
76	10	29	28

78	13	32	24
79	15	32	27
80	14	33	28
81	23	34	26
82	22	35	21

84	13	37	2
85	16	38	4
86	18	39	5
87	17	40	12
88	17	41	6

89	20	43	5
90	5	44	3
91	4	45	9
92	4	46	13
93	4	47	9

95	4	49	20
96	5	50	7
97	5	51	5
98	5	52	8
99	5	52	12

1	2	55	15
2	1	56	16
3	2	57	17
4	1	58	15
5	1	59	8

7	3	61	5
8	3	62	3
9	14	63	2
10	19	64	1
11	23	65	0

13	22	67	13
14	28	68	14
15	17	69	10
		70	10
		71	20

On July 31st, 2" tubing was run to total depth

At total depth 3250', 3212' of 5 1/2" casing was set at 3225' and cemented with 20 sacks. The casing

On August 12th, the well was tested through the casing with drill-pipe in the hole by injected gas, this test showed a 300/hr

The well was then deepened to 3407' and on the 14th the well was kicked off by input gas and flowed 1 1/2 30/hr. natural.

shot with 225 grains of nitrocellulose 1701 3537 to 3467, with a 135' gravel tump above the shot. The well unloaded after the shot and then bridged at 3267'. The bridge was drilled out and the hole cleaned to 3467' total depth of the well. 2" tubing was then run to 3438'.

After the well unloaded through the tubing it was allowed to flow three hours, and then was gauged flowing 0.4 bbl/hr on August 16, 1939.

Altivation	8168'	L & J
Top Anhydrite	1050	
Base Salt		
Top Cr. Lime	2730	

016 10Y3 3371-3390 3456-3469

PCF (est.), 3070-23 (Queens), 16,000 PCF x/250; 2. 1r.

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- (1). 2910-46, 3,000 MCF gas no oil.
- (2). C.T.D. 3028's, 3,000 MCF gas no oil.
- (3). C.T.D. 3068's, 4,000 MCF gas no oil.
- (4). C.T.D. 3071's, 15,000 MCF gas, spray or oil, Back-Pressure 250', shut in Fr. 1250'
- (5). C.T.D. 3121's, 2" tubing with packer 3097 perforations below, small gas no oil.
- (6). C.T.D. 3224's, 2" tubing with packer 3155, perforations below, small gas no oil.
- (7). 3228-3401, small gas, 1/2 30/hr.
- (8). C.T.D. 3467, Natural small gas 1 1/2 30/hr.
- (9). C.T.D. 3467', After shot, Hit. I.F.F. 5.4, 30/hr fourth hour of four hour test, no estimate on 288.

SITE	AMOUNT	DEPTH	COUNT
124"	237'10"	255'10"	100
8 5/8"	2728'11"	2744'11"	700
6 1/2"	3212'0"	3226'0"	20
2" Tubing	3454'0"	3468'0"	--

DEPTH	MIN.	DEPTH	MIN.	DEPTH	MIN.
5274	38	5281	38	5288	38
19	13	5295	13	5302	13
18	13	5310	13	5317	13
17	18	5324	18	5331	18
20	10	5338	10	5345	10
21	21	5352	21	5359	21
22	16	5366	16	5373	16
23	13	5380	13	5387	13
24	19	5394	19	5401	19
25	19	5408	19	5415	19
26	20	5422	20	5429	20
27	21	5436	21	5443	21
28	18	5450	18	5457	18
29	18	5464	18	5471	18
30	10	5478	10	5485	10
31	5	5492	5	5499	5
32	8	5506	8	5513	8
33	22	5520	22	5527	22
34	19	5534	19	5541	19
35	15	5548	15	5555	15
36	10	5562	10	5569	10
37	10	5576	10	5583	10
38	20	5590	20	5597	20
39	17	5604	17	5611	17
40	16	5618	16	5625	16
41	15	5632	15	5639	15
42	11	5646	11	5653	11
43	11	5660	11	5667	11
44	14	5674	14	5681	14
45	16	5688	16	5695	16
46	15	5702	15	5709	15
47	15	5716	15	5723	15
48	19	5730	19	5737	19
49	17	5744	17	5751	17
50	15	5758	15	5765	15
51	15	5772	15	5779	15
52	14	5786	14	5793	14
53	24	5799	24	5806	24
54	18	5813	18	5820	18
55	23	5827	23	5834	23
56	18	5841	18	5848	18
57	22	5855	22	5862	22
58	20	5869	20	5876	20
59	19	5883	19	5890	19
60	17	5897	17	5904	17
		5911		5918	
		5925		5932	
		5946		5953	
		5967		5974	
		5988		5999	
		6000			

<u>DEPTH</u>	<u>MIN.</u>	<u>DEPTH</u>	<u>MIN.</u>
3403	04	3449	7
04	30		
05	27	01	8
06	20	02	10
07	20	03	15
08	12	04	9
09	11	05	9
10	17	06	10
11	15	07	12
12	15	08	11
13	15	09	11
14	15	10	4
15	16	11	3
16	9	12	4
17	15	13	25
18	18	14	2
19	25	05	2
20	13	06	3
21	9	07	2
22	17	08	2
23	23	09	4
24	16	10	6
25	15		
26	20	Total Depth, Steel line correction	
27	10	3470 equals 3467	
28	10		
29	14		
30	28		
31	10		
32	8		
33	17		
34	14		
35	19		
36	10		
37	10		
38	13		
39	17		
40	20		
41	19		
42	14		
43	18		
44	18		
45	18		
46	13		
47	11		
48	20		
49	21		

[illegible][illegible]

Size	Amount	Depth	Sax Cement
1 1/2"	277' 10"	255	175
1 1/2" / 1 3/4"	2728' 11"	2744	700
5 1/2"	2424' 2412'	2425	20
2" 2 1/2"	2454	2458	loss threads