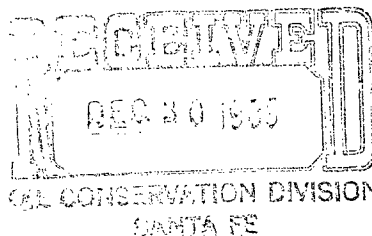


EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600



PRODUCTION DEPARTMENT
SOUTHWEST/ROCKY MOUNTAIN DIVISION

J.K. LYTLE
SENIOR TECHNICAL ADVISOR
REGULATORY AFFAIRS

December 27, 1985

*Downhole Commingling Request
J. L. Greenwood #11
Lea County, New Mexico*

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

ATTENTION: Mr. David Catanach

Gentlemen:

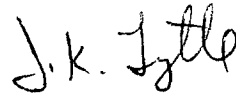
Exxon respectfully requests NMOCD approval to downhole commingle the Blinebry and Drinkard formations in the J. L. Greenwood #11. Permission to dually complete this well was authorized by administrative order DC-119. If permission to downhole commingle is received, this well will be placed on sucker rod pump to effectively lift formation fluids from the wellbore resulting in increased flow rates, and increase ultimate recovery from these two zones.

A packer leakage test showed the two zones to be in communication. The NMOCD has ordered Exxon to repair this well and submit another packer leakage test. The Andrews District has evaluated the costs associated with this repair and has determined that it will be uneconomical to repair this leak. If downhole commingling is not approved, the Blinebry will be squeezed and the Drinkard will be placed on rod pump, as we feel the Drinkard has more potential than the Blinebry. It is doubtful that the Blinebry will be reperfed in the future due to its low potential. Downhole commingling is being requested to prevent this waste.

The Blinebry and Drinkard zones currently satisfy the requirements necessary to apply for downhole commingling (see Attachment 1). The items Exxon must submit to the Commission to obtain approval are listed on Attachment 2, and subsequent attachments contain the data noted in Attachments 1 and 2.

Please contact J. W. Jordan (915) 523-3650 if any further information is required.

Yours truly,

A handwritten signature in cursive script, reading "J. K. Lytle". The letters are fluid and connected, with a prominent loop on the "L".

J. K. Lytle

JKL:djc
Attachments

c: Offset Operators (Certified Mail)
District I - NMOCD, Hobbs, NM

ATTACHMENT 1

J. L. Greenwood #11 - Downhole Commingling - Requirements

The Blinebry and Drinkard formations in the above well satisfy the requirements necessary for downhole commingling as follows:

1. The total combined daily oil production from the oil zones before commingling does not exceed 40 BOPD. Currently neither zone is able to flow. 6540' is the depth of the bottom perforation in the Drinkard formation.
2. Oil zones require artificial lift, or, both zones are capable of flowing. Both zones now require artificial lift, which will be installed when the two zones are commingled.
3. Neither zone produces more than 40 BWPD. Neither zone is now able to flow.
4. The fluids from each zone are compatible with the fluids from the other, and combining the fluids will not result in the formation of precipitates which damage either reservoir. See attached data.
5. The total value of the crude will not be reduced by commingling. See attached data.
6. Ownership of the zones to be commingled is common (including working interest, royalty, and overriding royalty).
7. The commingling will not jeopardize the efficiency of present or future secondary recovery operations in either of the zones to be commingled. Current plans are to commingle these zones for waterflood in the proposed Blinebry-Drinkard Waterflood Unit.
8. The commingling is necessary to permit a zone or zones to be produced which would not otherwise be economically producible.
9. There will be no crossflow between zones to be commingled.
10. The bottomhole pressure of the lower pressure zone is not less than 50 percent of the bottomhole pressure of the higher pressure zone adjusted to a common datum. See attached data.

ATTACHMENT 2

J. L. Greenwood #11 - Downhole Commingling - Data Required

To obtain approval for downhole commingling, we have enclosed the following data pursuant to Rule 303(C)(2)(a through j):

1. Exxon's name and address:

Exxon Corporation
1700 West Broadway
Andrews, TX 79714

2. Lease name, well number, well location, and name of pools to be commingled:

Jessie L. Greenwood No. 11, 1880' FSL, 760' FEL, Section 9, T-22-S, R-37-E, Lea County, New Mexico. Pools to be commingled: Blinebry and Drinkard. Authorization to dually complete-Order No. DC-119.

3. A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases: Attached.

4. A 24-hour productivity test on Division Form C-116 showing the amount of oil, gas, and water produced from each zone: Attached.

5. A production decline curve for both zones showing that for a period of at least one year, a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes: Attached.

6. A current bottomhole pressure for each zone capable of flowing:

Estimated BHP - Drinkard 760 psig. Estimated BHP - Blinebry 638 psig.
Common datum - mid perms of Blinebry (5600').

Calculations attached.

7. A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore:

See attached hydrocarbon analysis. Exxon has commingled these fluids at the surface and has encountered no incompatibility problems.

3. A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams: Attached.

9. A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such a formula:

0

Blinebry Pool: Oil 0%, Gas 85.7%
 Drinkard Pool: Oil 100%, Gas 14.3%

The allocation of gas production to each zone is based on the ratios of current production.

$$Q_d = Q_t \frac{1 + \frac{Q_{bi}}{Q_{di}}}{-1} \quad \text{or} \quad Q_b = Q_t \frac{1 + \frac{Q_{di}}{Q_{di}}}{-1}$$

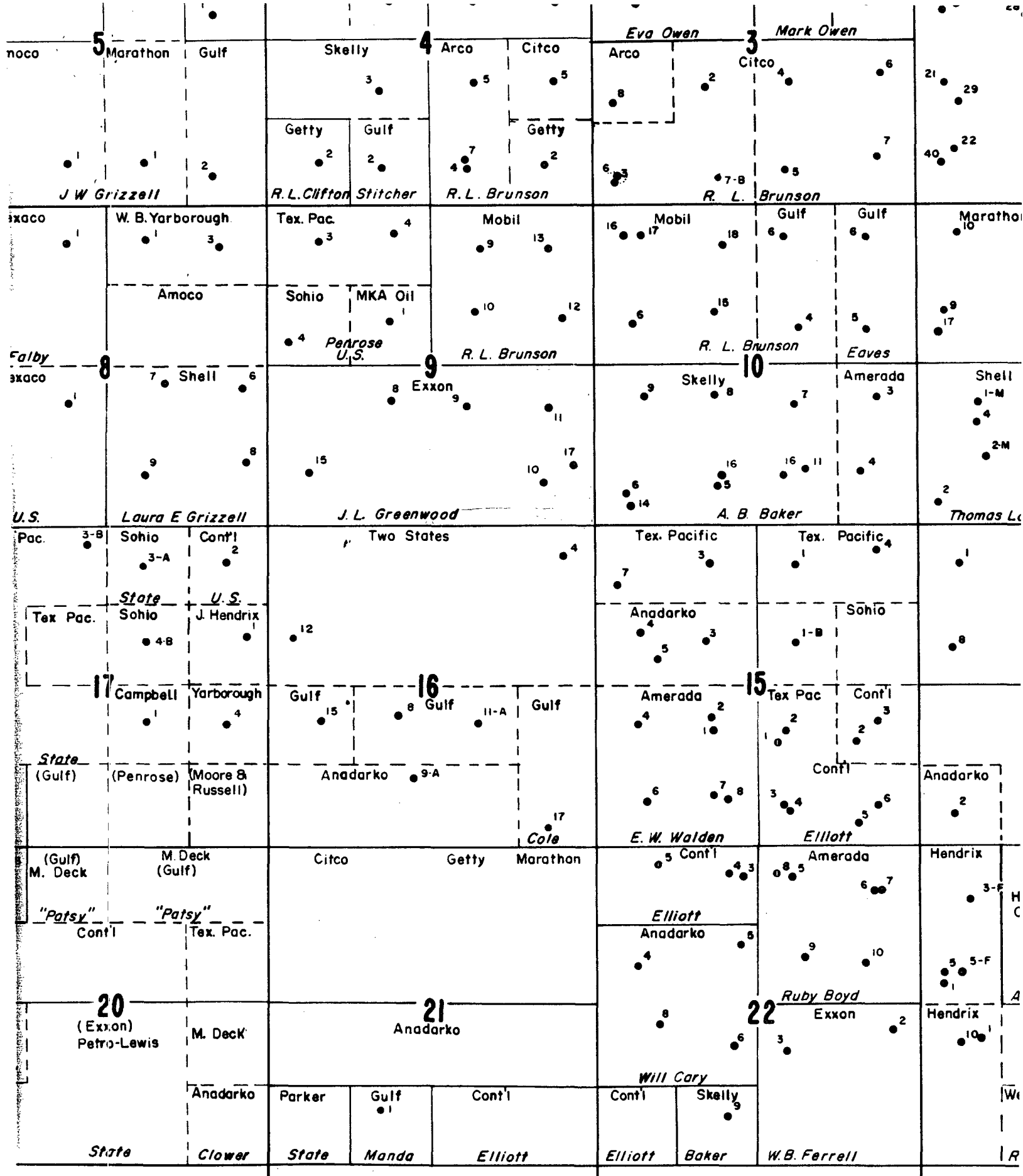
Q_t = Total well production, kcf.
 Q_b = Production from Blinebry, kcf/D.
 Q_d = Production from Drinkard, kcf/D
 Q_{bi} = Initial Blinebry rate, 36 kcf/D
 Q_{di} = Initial Drinkard rate, 6 kcf/D

Initial rates are based on 1985 average production.

100% of the oil production is expected to be from the Drinkard. The small amount of liquid column on the Blinebry is attributed to the packer leak. The Blinebry quit making oil several years ago.

10. A statement that all offset operators and, in case of a well on Federal land, the United States Geological Survey, has been notified in writing of the proposed commingling:

All offset operators (list attached) have been notified by copy of this application.



DEDICATED ACREAGE -160 ACRES

TYPE TEST

Blindey

METHOD OF PRODUCTION
(CHECK ONE)

WELL NO.	CAL DAY ALLOW.	SCH
11	1	

☐ GAS ENG. ☐ ELEC.☐ OTHER _____

PUMPING WELLS ONLY

OIL OR GAS WELL PRODUCTION

TEST OIL OR CONDENSATE (BBL)	26	27	28	29	30	31
TOTAL FLUID (BBL)	32	33	34	35	36	37

OIL OR COND. GRAV.		44	45	46	.
TEST WATER (BBLS)	38	39	40	41	42 43

OIL OR COND. TEMP.	47	48	49	50

FLUID CHOKE SIZE	51	52	53	54	<i>OPW</i>

TUBING PRESSURE	55	56	57	58	59
--------------------	----	----	----	----	----

9	60	61	62	63	BEGINNING CASING PRESSURE
---	----	----	----	----	---------------------------

ENDING CASS PRESS	65	66	67
NG RE	3	6	4

[illegible]

TRAP PRESSURE	72	73	74	75

ENTER EITHER ITEM 30 THRU ITEM 35 OR ITEM 36 & 37

LINE SIZE	26 27 28 29	4.000
PLATE SIZE	30 31 32 33	3.75
ITEM	34	1.55

PRING SIZE	35	36	37
DIFF. RANGE	38	39	40 41
AVG. REV. (DIFF.)	42	43	44

AVG. BLUE (STAT)	44	45	75
G. D (FF)	43		5

OUTPUT GAS VOLUME (MCF)	46	47	48	49	50
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0	ITEM	51	52	53	GAS GRAV.
---	------	----	----	----	--------------

9	HIS
8	ITEM
7	PROVE
6	ITEM
5	ARTIST
4	ITEM

COM- MENTS	657	
---------------	-----	--

SEE ALSO
X8775

09804
435

LIFT DATA

INTER-MITTER TIME		INTER-MITTER INTERVAL		ITEM	P
HRS	MIN	HRS	MIN		
26	27	28	29	30	31
30	31	32	33	34	35

INPUT LINE RESSURE	35	36	37	38
CHOKE SIZE	39	40	41	42

LINE SIZE	43	44	45	46

PLATE SIZE	47	48	49	50

SPRING SIZE				
	51	52	53	54

DIFF. RANGE	55	56	57	58	59
----------------	----	----	----	----	----

A	BUS	(S)	62	
			MEM + 58	
Avg.	RED	(DIFF)	60	61
			MEM + 17EM	
			9	

WG.	63
LUE	
(STAT)	

S LIFT PLUME (MCF)	66	67	68

FOR DISTRICT USE ONLY

[illegible]

RISHMERE	
CODES	140 (1997) 17 (1998) 18 (1999) 19 (2000) 20 (2001) 21 (2002) 22 (2003) 23 (2004) 24 (2005) 25 (2006) 26 (2007) 27 (2008) 28 (2009) 29 (2010) 30 (2011) 31 (2012) 32 (2013) 33 (2014) 34 (2015) 35 (2016) 36 (2017) 37 (2018) 38 (2019) 39 (2020) 40 (2021) 41 (2022) 42 (2023) 43 (2024) 44 (2025) 45 (2026) 46 (2027) 47 (2028) 48 (2029) 49 (2030) 50 (2031) 51 (2032) 52 (2033) 53 (2034) 54 (2035) 55 (2036) 56 (2037) 57 (2038) 58 (2039) 59 (2040) 60 (2041) 61 (2042) 62 (2043) 63 (2044) 64 (2045) 65 (2046) 66 (2047) 67 (2048) 68 (2049) 69 (2050) 70 (2051) 71 (2052) 72 (2053) 73 (2054) 74 (2055) 75 (2056) 76 (2057) 77 (2058) 78 (2059) 79 (2060) 80 (2061) 81 (2062) 82 (2063) 83 (2064) 84 (2065) 85 (2066) 86 (2067) 87 (2068) 88 (2069) 89 (2070) 90 (2071) 91 (2072) 92 (2073) 93 (2074) 94 (2075) 95 (2076) 96 (2077) 97 (2078) 98 (2079) 99 (2080) 100 (2081) 101 (2082) 102 (2083) 103 (2084) 104 (2085) 105 (2086) 106 (2087) 107 (2088) 108 (2089) 109 (2090) 110 (2091) 111 (2092) 112 (2093) 113 (2094) 114 (2095) 115 (2096) 116 (2097) 117 (2098) 118 (2099) 119 (2100) 120 (2101) 121 (2102) 122 (2103) 123 (2104) 124 (2105) 125 (2106) 126 (2107) 127 (2108) 128 (2109) 129 (2110) 130 (2111) 131 (2112) 132 (2113) 133 (2114) 134 (2115) 135 (2116) 136 (2117) 137 (2118) 138 (2119) 139 (2120) 140 (2121) 141 (2122) 142 (2123) 143 (2124) 144 (2125) 145 (2126) 146 (2127) 147 (2128) 148 (2129) 149 (2130) 150 (2131) 151 (2132) 152 (2133) 153 (2134) 154 (2135) 155 (2136) 156 (2137) 157 (2138) 158 (2139) 159 (2140) 160 (2141) 161 (2142) 162 (2143) 163 (2144) 164 (2145) 165 (2146) 166 (2147) 167 (2148) 168 (2149) 169 (2150) 170 (2151) 171 (2152) 172 (2153) 173 (2154) 174 (2155) 175 (2156) 176 (2157) 177 (2158) 178 (2159) 179 (2160) 180 (2161) 181 (2162) 182 (2163) 183 (2164) 184 (2165) 185 (2166) 186 (2167) 187 (2168) 188 (2169) 189 (2170) 190 (2171) 191 (2172) 192 (2173) 193 (2174) 194 (2175) 195 (2176) 196 (2177) 197 (2178) 198 (2179) 199 (2180) 200 (2181) 201 (2182) 202 (2183) 203 (2184) 204 (2185) 205 (2186) 206 (2187) 207 (2188) 208 (2189) 209 (2190) 210 (2191) 211 (2192) 212 (2193) 213 (2194) 214 (2195) 215 (2196) 216 (2197) 217 (2198) 218 (2199) 219 (2200) 220 (2201) 221 (2202) 222 (2203) 223 (2204) 224 (2205) 225 (2206) 226 (2207) 227 (2208) 228 (2209) 229 (2210) 230 (2211) 231 (2212) 232 (2213) 233 (2214) 234 (2215) 235 (2216) 236 (2217) 237 (2218) 238 (2219) 239 (2220) 240 (2221) 241 (2222) 242 (2223) 243 (2224) 244 (2225) 245 (2226) 246 (2227) 247 (2228) 248 (2229) 249 (2230) 250 (2231) 251 (2232) 252 (2233) 253 (2234) 254 (2235) 255 (2236) 256 (2237) 257 (2238) 258 (2239) 259 (2240) 260 (2241) 261 (2242) 262 (2243) 263 (2244) 264 (2245) 265 (2246) 266 (2247) 267 (2248) 268 (2249) 269 (2250) 270 (2251) 271 (2252) 272 (2253) 273 (2254) 274 (2255) 275 (2256) 276 (2257) 277 (2258) 278 (2259) 279 (2260) 280 (2261) 281 (2262) 282 (2263) 283 (2264) 284 (2265) 285 (2266) 286 (2267) 287 (2268) 288 (2269) 289 (2270) 290 (2271) 291 (2272) 292 (2273) 293 (2274) 294 (2275) 295 (2276) 296 (2277) 297 (2278) 298 (2279) 299 (2280) 300 (2281) 301 (2282) 302 (2283) 303 (2284) 304 (2285) 305 (2286) 306 (2287) 307 (2288) 308 (2289) 309 (2290) 310 (2291) 311 (2292) 312 (2293) 313 (2294) 314 (2295) 315 (2296) 316 (2297) 317 (2298) 318 (2299) 319 (2300) 320 (2301) 321 (2302) 322 (2303) 323 (2304) 324 (2305) 325 (2306) 326 (2307) 327 (2308) 328 (2309) 329 (2310) 330 (2311) 331 (2312) 332 (2313) 333 (2314) 334 (2315) 335 (2316) 336 (2317) 337 (2318) 338 (2319) 339 (2320) 340 (2321) 341 (2322) 342 (2323) 343 (2324) 344 (2325) 345 (2326) 346 (2327) 347 (2328) 348 (2329) 349 (2330) 350 (2331) 351 (2332) 352 (2333) 353 (2334) 354 (2335) 355 (2336) 356 (2337) 357 (2338) 358 (2339) 359 (2340) 360 (2341) 361 (2342) 362 (2343) 363 (2344) 364 (2345) 365 (2346) 366 (2347) 367 (2348) 368 (2349) 369 (2350) 370 (2351) 371 (2352) 372 (2353) 373 (2354) 374 (2355) 375 (2356) 376 (2357) 377 (2358) 378 (2359) 379 (2360) 380 (2361) 381 (2362) 382 (2363) 383 (2364) 384 (2365) 385 (2366) 386 (2367) 387 (2368) 388 (2369) 389 (2370) 390 (2371) 391 (2372) 392 (2373) 393 (2374) 394 (2375) 395 (2376) 396 (2377) 397 (2378) 398 (2379) 399 (2380) 400 (2381) 401 (2382) 402 (2383) 403 (2384) 404 (2385) 405 (2386) 406 (2387) 407 (2388) 408 (2389) 409 (2390) 410 (2391) 411 (2392) 412 (2393) 413 (2394) 414 (2395) 415 (2396) 416 (2397) 417 (2398) 418 (2399) 419 (2400) 420 (2401) 421 (2402) 422 (2403) 423 (2404) 424 (2405) 425 (2406) 426 (2407) 427 (2408) 428 (2409)

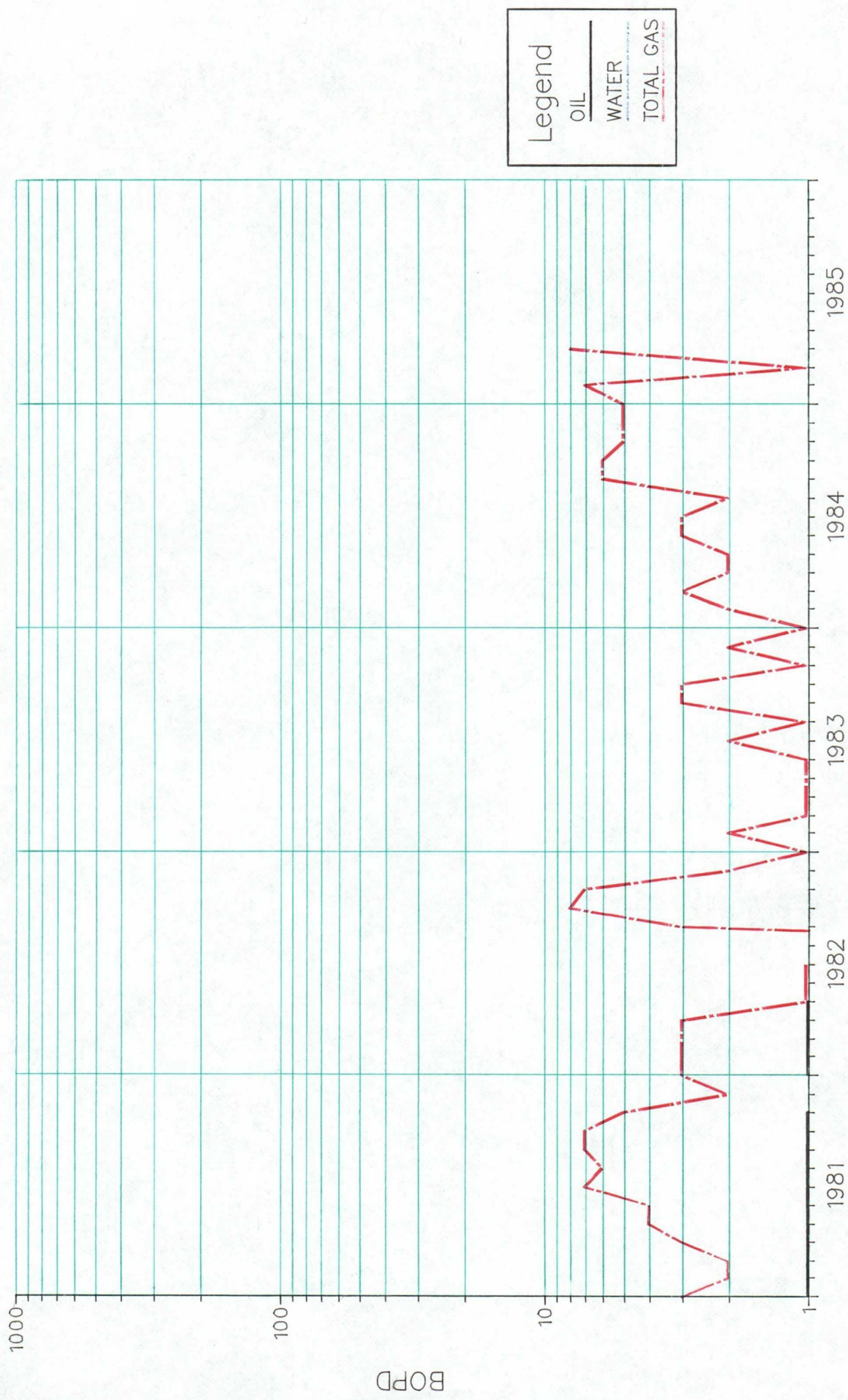
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1 Scheduled	50 1
2 Special	50 2
3 Routine	50 3
4 Performed by Recreational	50 4
5 Allocation	50 5
6 Information	50 6
7 Monthly	50 7
ALLOWABLE TYPE TEST	
1 Planned	50 1
2 Example	50 2

[illegible]

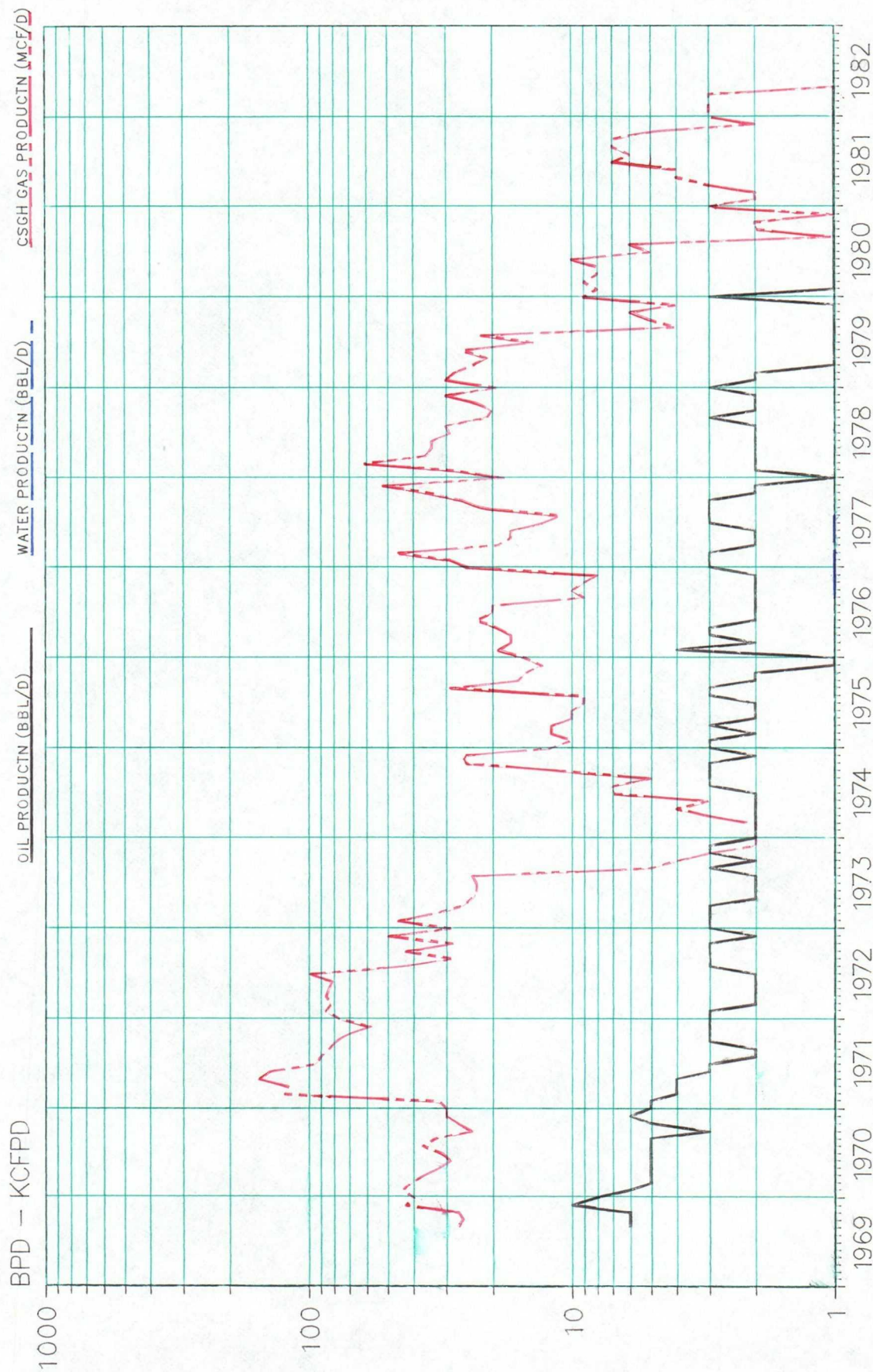
SIGNATURE

5. Date: 11/11/2011

J. L. GREENWOOD 11 DRINKARD



DISTRICT - 03 ANDREWS
FIELD - 0306 PADDOCK
RESERVOIR - 470 DRINKARD
WELL- 0011 LSE-29270 JL GREENWOOD



CALCULATIONS OF STATIC BOTTOM-HOLE PRESSURES

Equations to Be Used:

$$P_{sfs} = P_{whs} * e^{c/\bar{z}} + P_{ls} \text{ where: } c = \frac{(\gamma_g)(TVD)}{53.34 \bar{T}} \quad \text{(Applied Petroleum Reservoir Engineering, Craft and Hawkins, Pg. 26)}$$

P_{sfs} = Static sandface pressure, psia

P_{whs} = Static wellhead pressure, psia

P_{ls} = Static Head of fluid column, psia

$e = 2.7183$

γ_g = Gas gravity

TVD = True vertical depth, feet

$\bar{T}$ = Average Temperature, °R

$\bar{z}$ = Average compressibility factor

Assumptions:

$P_{atm} = 14.7$ psia

Temp. Grad. = 0.011 F/ft

Liquid Grad. = 0.3 psi/ft

Blinebry Zone:

$\gamma_g = 0.7023$ calculated from gas analysis

$P_{whs} = 412$ psia

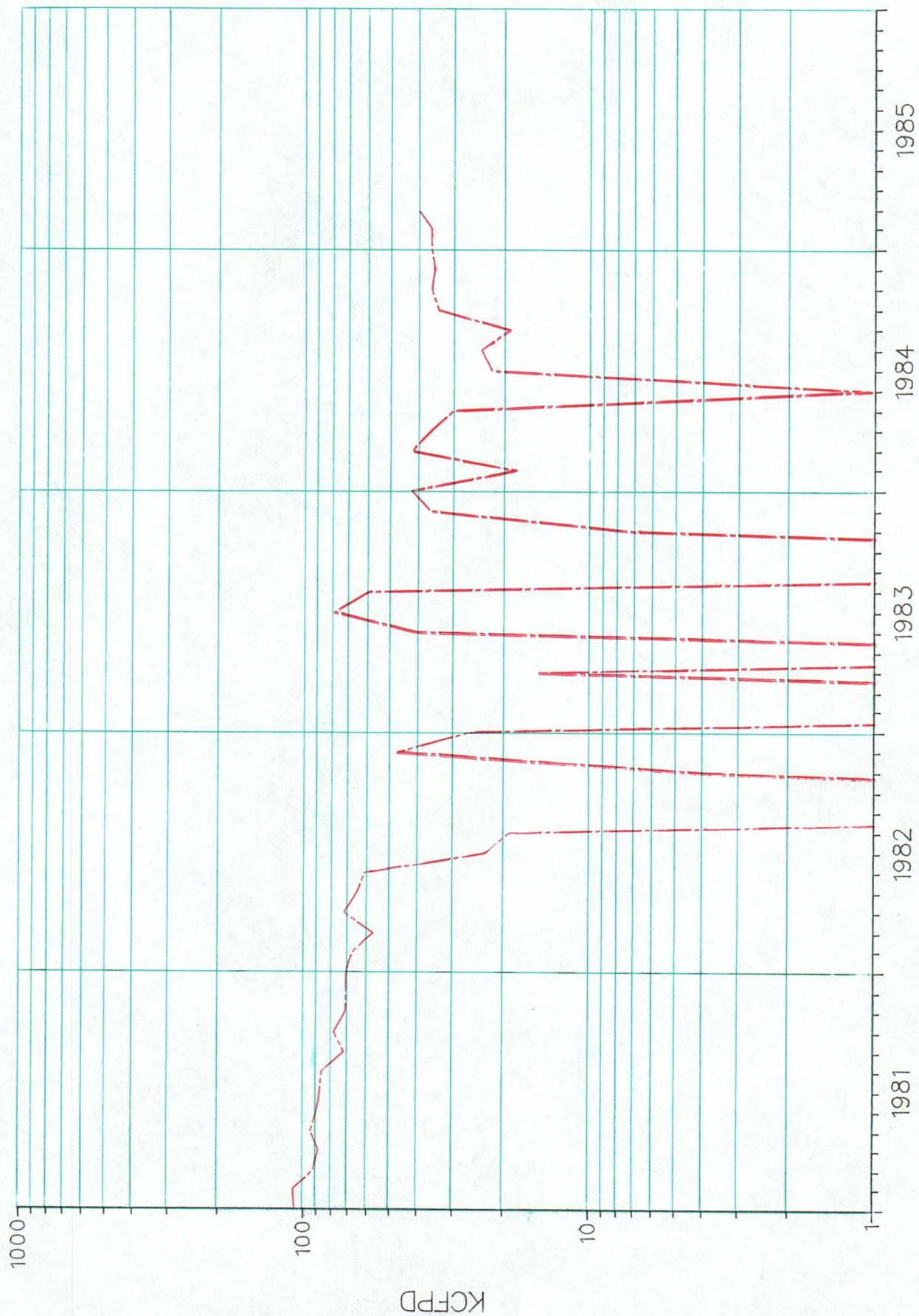
TVD = 5033' (Top of fluid)

TVD = 5600' (mid Perfs)

$\bar{T} = (82 + 134) (0.5) = 108^\circ\text{F} = 568^\circ\text{R}$

$c = \frac{(0.7023)(5033)}{(53.34)(568)} = 0.117$

J. L. GREENWOOD 11
BLINEBRY



Trial and Error Solution

$$P_{pc} = 676 \text{ psia}$$

$$T_{pc} = 402 \text{ }^{\circ}\text{R}$$

(Based on volumetric averages)

$$T_r = 568/402 = 1.41$$

Assume: $P_{sfs} = 470 \text{ psia}$ - Due to gas

$$P = (470 + 412)/2 = 441 \text{ psia}$$

$$P_r = 441/617 = 0.715$$

$$\bar{z} = 0.915$$

$$P_{sfs} = (412)e^{.117/.915} = 468 \text{ psia}$$

Assume: $P_{sfs} = 468 \text{ psia}$ - Due to gas

$$P = (468 + 412)/2 = 440 \text{ psia}$$

$$P_r = 440/617 = 0.713$$

$$\bar{z} = 0.916$$

$$P_{sfs} = (412)e^{.117/.916} = 468 \text{ psia}$$

$$P_{ls} = .3 (5600 - 5033) = 170 \text{ psia}$$

Total static sandface pressure $P_{sfs} = 468 \text{ psia} + 170 \text{ psia} = 638 \text{ psia}$
 $P_{sfs} = \underline{638 \text{ psia for Blinebry}}$

Drinkard Zone:

$P_{sfs} = 760 \text{ psia}$ Measured at common datum -
midperfs of Blinebry (5600').
Pressure measurement attached.

JARREL SERVICES, INC.

POST OFFICE BOX 1854

PHONES 505 393-5396 — 393-8274

HOBBS, NEW MEXICO 88240

BOTTOM HOLE PRESSURE RECORD

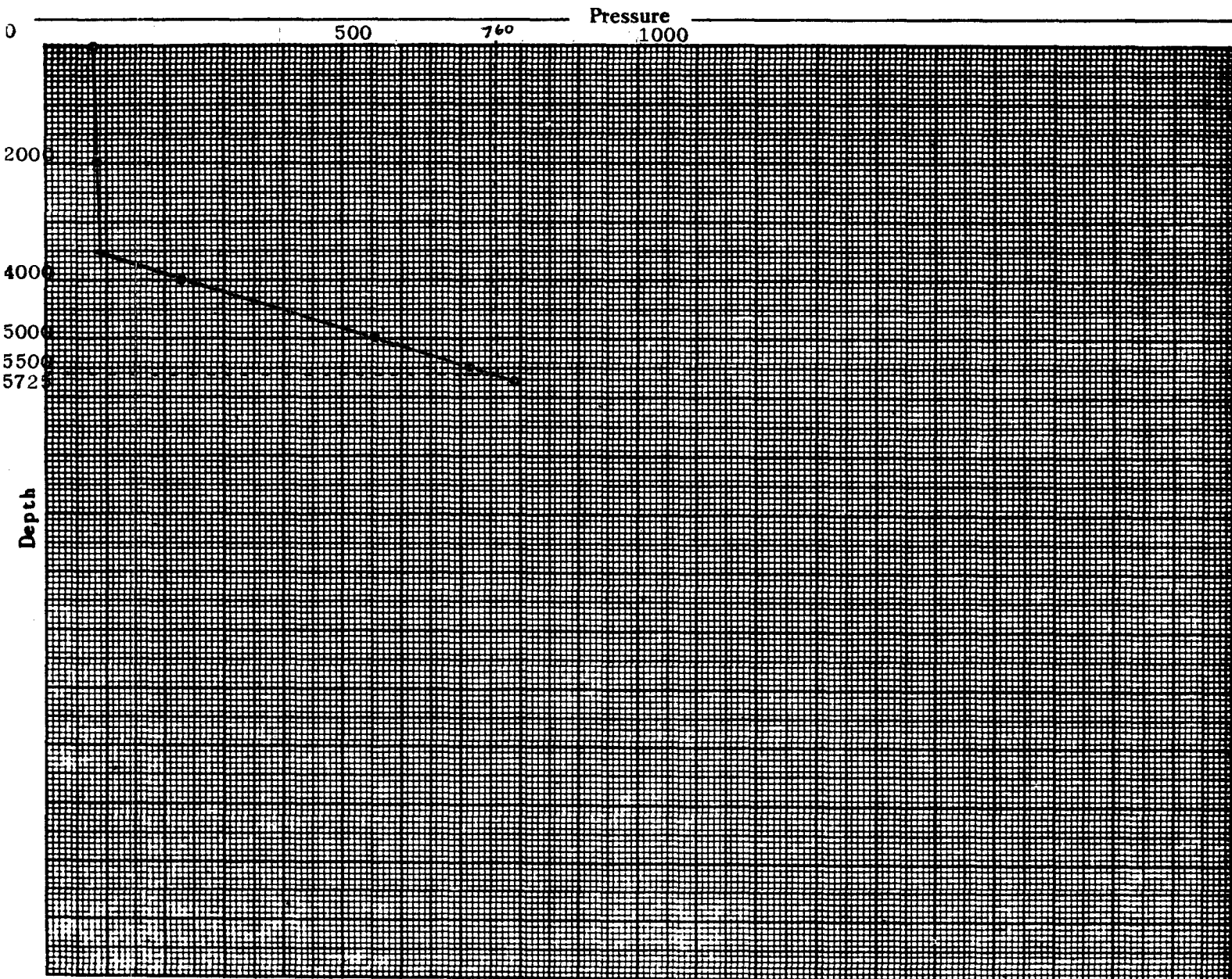
OPERATOR Exxon Company USA
 FIELD Drinkard
 FORMATION Drinkard
 LEASE J.L. Greenwood WELL No. 11
 COUNTY Lea STATE New Mexico
 DATE 6/15/85 TIME 12:00 N
 Status Shut in
 Test Depth 5725' +
 Time S. I. 48.0 hrs Last test date -
 Tub Pres. 78 BHP last test -
 Cas. Pres. PKR BHP change -
 Elev. 3429' KB Fluid top 3570'
 Datum (-3052)** Water top None
 Temp. @ 113° F Run by JSI #21
 Cal. No. 4586 Chart No. 2

Depth	Pressure	Gradient
0	78	-
2000	83	.003
4000	228	.073
5000	554	.326
5500	717	.326
5725 +	790	.324
6481 (-3052)	1035 * **	(.324)

+ HIT OBSTRUCTION @ 5750'

* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS



JARREL SERVICES, INC.
 PHONE (505) 393-1736
 HOBBS, NEW MEXICO, 88240

PRESSURE TRANSIENT TEST DATA

COMPANY: Exxon Company USA	CONTACT: Carter Copeland
LEASE: J.L. Greenwood	WELL: #11
FIELD: Drinkard	ZONE: Drinkard
COUNTY: Lea	STATE: New Mexico
STATUS: 30 minute flow; 48 hour shut-in	OPERATOR: Friese

PERFORATIONS FROM: 6,422.0'	TO: 6,540.0'
DEPTH: 5,725.0'	TEMPERATURE: 113.0°F

ELEMENT: 20275	RANGE: 3150 psig
CLOCK: 21499	RANGE: 72 hrs
ELEMENT: 4586	RANGE: 3975 psig
CLOCK: E5374	RANGE: 72 hrs

SURFACE PRESSURE MEASUREMENTS

EVENT	DATE	TIME	DEAD WEIGHT PRESSURE
START CLOCK	06/13/85	11:00:00	8.0 psig
SET ELEMENT	06/13/85	11:30:00	8.0 psig
WELL SHUT IN	06/13/85	12:00:00	8.0 psig
TEST ENDED	06/15/85	12:00:00	78.0 psig

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
06/13/85	11:30:00	-.500	729.0	742.2	987.2
06/13/85	12:00:00	0.000	729.0	742.2	987.2
06/13/85	12:15:00	.250	733.0	746.2	991.2
06/13/85	12:30:00	.500	737.0	750.2	995.2
06/13/85	12:45:00	.750	739.0	752.2	997.2
06/13/85	13:00:00	1.000	741.0	754.2	999.2
06/13/85	14:00:00	2.000	741.0	754.2	999.2
06/13/85	15:00:00	3.000	741.0	754.2	999.2
06/13/85	16:00:00	4.000	743.0	756.2	1,001.2
06/13/85	17:00:00	5.000	743.0	756.2	1,001.2
06/13/85	22:00:00	10.000	743.0	756.2	1,001.2
06/14/85	03:00:00	15.000	745.0	758.2	1,003.2
06/14/85	08:00:00	20.000	747.0	760.2	1,005.2
06/14/85	13:00:00	25.000	747.0	760.2	1,005.2
06/14/85	18:00:00	30.000	753.0	766.2	1,011.2
06/14/85	23:00:00	35.000	763.0	776.2	1,021.2
06/15/85	04:00:00	40.000	776.0	789.2	1,034.2
06/15/85	09:00:00	45.000	786.0	799.2	1,044.2
06/15/85	12:00:00	48.000	790.0	803.2	1,048.2



NEW-TEX LAB

PHONE 505/393-3561

P. O. BOX 1161

611 W. SNYDER

HOBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: EXXON CO USA
ADDRESS: 1700 W BROADWAY
CITY, STATE: ANDREWS TX 79714

ANALYSIS NUMBER: 7586
DATE OF RUN: 07 15 85
DATE SECURED: 07 15 85

SAMPLE IDENT: J-L GREENWOOD #11
SAMPLING PRESS: 44 PSIG SAMPLING TEMP: 82 DEG F

REMARKS: CASING SIDE - *Blind*

***** GAS ANALYSIS *****

	MOLE PERCENT	GAL/ MCF
NITROGEN	0.942	
CARBON DIOXIDE	0.390	
METHANE	81.182	
ETHANE	10.083	2.689
PROPANE	4.671	1.282
ISO-BUTANE	0.486	0.159
NORMAL BUTANE	1.286	0.404
ISO-PENTANE	0.243	0.089
NORMAL PENTANE	0.329	0.119
HEXANES	0.388	0.159
TOTAL	100.000	4.901

PROPANE GPM:	1.28	BUTANES GPM:	0.56
ETHANE GPM:	2.69	PENTANES PLUS GPM:	0.37

SPECIFIC GRAV (CALC): 0.7023
MOLE WEIGHT: 20.34

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
14.696		1194	1216
14.650		1191	1212
14.730		1197	1218
14.735		1197	1219

DEANE SIMPSON

ORIGINAL SIGNED BY
DEANE SIMPSON



NEW-TEX LAB

PHONE 505/393-3561

P. O. BOX 1161

611 W. SNYDER

HOBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: EXXON CO USA
ADDRESS: 1700 W BROADWAY
CITY, STATE: ANDREWS TX 79714

ANALYSIS NUMBER: 7585
DATE OF RUN: 07 15 85
DATE SECURED: 07 15 85

SAMPLE IDENT: J L GREENWOOD #11
SAMPLING PRESS: 30 PSIG SAMPLING TEMP: 88 DEG F

REMARKS: TUBING SIDE - Drinkard

***** GAS ANALYSIS *****

	MOLE PERCENT	GAL/ MCF
NITROGEN	0.536	
CARBON DIOXIDE	0.272	
METHANE	82.745	
ETHANE	9.717	2.592
PROPANE	4.311	1.183
ISO-BUTANE	0.366	0.119
NORMAL BUTANE	1.158	0.364
ISO-PENTANE	0.223	0.082
NORMAL PENTANE	0.306	0.111
HEXANES	0.366	0.150
TOTAL	100.000	4.601

PROPANE GPM: 1.18 BUTANES GPM: 0.48
ETHANE GPM: 2.59 PENTANES PLUS GPM: 0.34

SPECIFIC GRAV (CALC): 0.6893
MOLE WEIGHT: 19.96

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
14.696		1184	1205
14.650		1180	1201
14.730		1187	1208
14.735		1187	1208

DEANE SIMPSON

ORIGINAL SIGNED BY
DEANE SIMPSON

*Estimated Effects on the Value of
Total Production from Proposed
Down Hole Commingling¹*

J. L. Greenwood #11

Before Down Hole Commingling

	<u>BPD Oil Volume</u>	<u>Oil Price</u>	<u>MCF/Day Gas Volume</u>	<u>Gas Price</u>	<u>Daily Oil and Gas Value</u>
Blinbry	0	N/A	1	1.28	1.28
Drinkard	0	N/A	31	N/A	26.04
					<u>\$27.32</u>

After Down Hole Commingling

	<u>BPD Oil Volume</u>	<u>Oil Price</u>	<u>MCF/Day Gas Volume</u>	<u>Gas² Price</u>	<u>Daily Oil And Gas Value</u>	<u>Difference in Daily Value</u>
	35	27.86	500	.84	1395.10	
					<u>\$1395.10</u>	<u>\$1367.78</u>

1. Production volumes and prices based on September 1985 data
2. If gas split between two purchasers-assumed lower price prevails after commingling.

OFFSET OPERATORS
TO EXXON'S J. L. GREENWOOD LEASE
LEA COUNTY, NEW MEXICO

MKA
Address Unknown

Chevron U.S.A., Inc.
Attn: J. C. Prindle
P. O. Box 670
Hobbs, New Mexico 88240

Conoco Inc.
P. O. Box 1959
Midland, Texas 79702

Shell Western E&P Inc.
P. O. Box 991
Houston, Texas 77253

Amoco
P. O. Box 3092
Houston, Texas 77253

Sohio
P. O. Box 3167
Midland, Texas 79701

Sun Exploration & Production Co.
P. O. Box 2880
Dallas, Texas 75221-2880

Mobil
P. O. Box 1900
Midland, Texas 79702

Texaco Producing Inc.
P. O. Box 3000
Tulsa, Oklahoma 74101

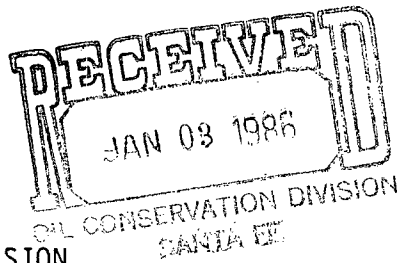
J. H. Hendrix
403 Wall Towers West
Midland, Texas 79701



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE
December 31, 1985

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161



OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	<u> X </u>
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

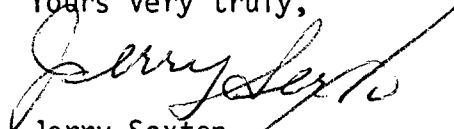
I have examined the application for the:

Exxon Corp.	J. L. Greenwood	No. 11-I	9-22-37
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,


Jerry Sexton
Supervisor, District 1

/mc