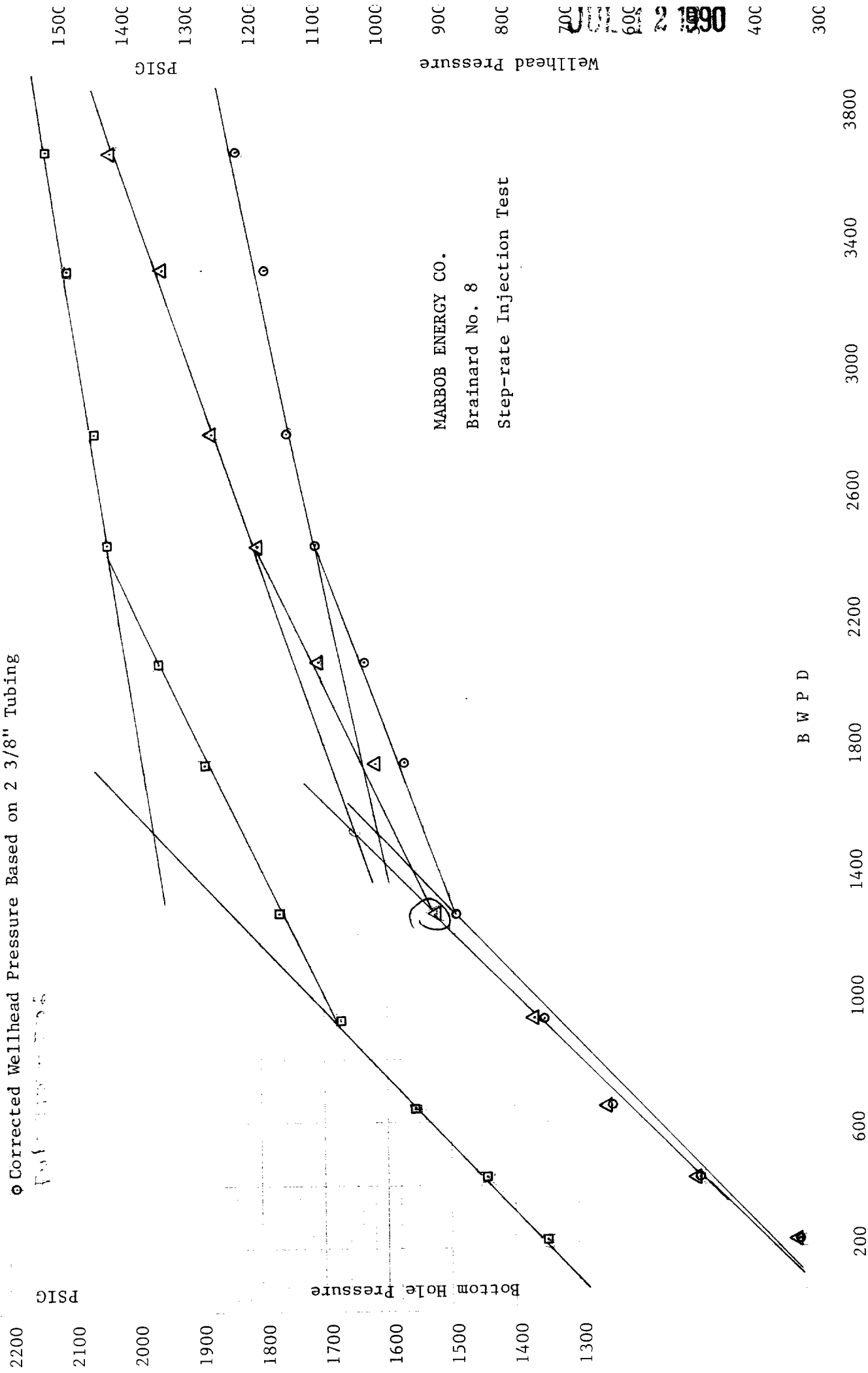


□ Bottom Hole Pressure @ 2,104 Feet

△ Recorded Wellhead Pressure

○ Corrected Wellhead Pressure Based on 2 3/8" Tubing

Page 1 of 1



JOHN WEST ENGINEERING CO.
Step Rate Injection Test

Well Name Brainard No. 8
CO. Name Marbob Energy Company

Date 7/10/90

Remarks	Time	Tbg. Press.	Rate B P D	Total	B H P	Tbg. Press.	Rate G P M	Total
				BOMB SET @ 2104'				
	9:00	226.7		0	1259.20			
	9:05	278.80	230.40	.8	1301.40			
	9:10	311.60	201.60	1.5	1323.70			
Rate I	9:15	349.60	230.40	2.3	1346.10	348.5	6.44	1.110
			220.80					
	9:20	419.80	432.00	3.8	1390.70			
	9:25	460.40	432.00	5.3	1420.60			
Rate II	9:30	513.90	403.20	6.7	1441.60	510.2	12.32	3.685
			422.40					
	9:35	559.80	633.60	8.9	1488.50			
	9:40	601.80	633.60	11.1	1528.00			
Rate III	9:45	651.60	662.40	13.4	1558.60	643.9	18.76	8.023
			643.20					
	9:50	706.40	921.60	16.6	1612.10			
	9:55	742.00	921.60	19.8	1648.30			
Rate IV	10:00	767.30	921.60	23.0	1674.10	751.7	26.88	15.606
			921.60					
	10:05	823.40	1267.20	27.4	1722.80			
	10:10	874.40	1296.00	31.9	1760.30			
Rate V	10:15	920.20	1238.40	36.2	1787.50	892.1	36.96	28.129
			1267.20					
	10:20	967.30	1756.80	42.3	1831.70			
	10:25	990.00	1699.20	48.2	1861.00			
Rate VI	10:30	1015.30	1756.80	54.3	1885.20	964.9	50.68	50.443
			1737.60					
	10:35	1074.00	2044.80	61.4	1916.20			
	10:40	1087.90	2073.60	68.6	1938.20			
Rate VII	10:45	1100.60	2044.80	75.7	1957.40	1031.8	59.92	68.764
			2054.40					
	10:50	1169.60	2448.00	84.2	1984.60			
	10:55	1173.20	2448.00	92.7	2002.90			
Rate VIII	11:00	1198.80	2419.20	101.1	2018.30	1104.4	71.12	94.414
			2438.40					
	11:05	1246.00	2793.60	110.8	2035.10			
	11:10	1256.10	2793.60	120.5	2049.00			
Rate IV	11:15	1271.20	2764.80	130.1	2058.40	1150.5	81.20	120.650
			2784.00					

JOHN WEST ENGINEERING CO.

Step Rate Injection Test

Well Name Brainard No. 8
CO. Name Marbob Energy Company

Date 7/10/90

Page 2

[illegible]

STEP	RATE	BREAK	5 MIN	10 MIN	15 MIN	.2	.3	.4	.5	.6
Surface	PSI		SIP	SIP	SIP					
1100				1119		406		813	1017x	1220
760			1100	1069		353	529	706 x	882	1059
1020						359	539	718	898	x 1078
920				1027		355	533	710	888 x	1066
905						506	759 x	1013	1266	1519
1060				1138		500	750	1000 x	1250	
1920				1890		672	1008	1344	1680	x 2016
1585						677	1015	1354 x	1683	2031
1800			1947	1913	1882	659	988	1318	1648	x 1977
1440				1580		670	1005	1340 x	1675	
1750						647	971	1295	1619 x	1943
1880				1807		628	942	1256	1570	x 1884
1650						662	993	1324	x 1656	
2740			2722	2634	2570	673	1010	1347	1684	2020 x
1680				1685		658	988	1317	1647x	1976
1230						483	724	966	1208 x	1449
1080						502	753	1004 x	1256	1506
925			1010			489	734	x 978	1223	1468
940			970			678 x	1017	1356	1696	2035
1080						744 x	1116	1488	1861	2233
2380				710		1534	2301 x	3068	3836	4603
740			620			519	x 778	1038	1297	1557
1020				1030		537	806	x 1075	1344	1613
680			750			644x	996	1328	1660	1992
						420	42	212	102 x	400

ILLEGIBLE

RECEIVED DIVISION

JUL 16 1979

'90 JUL 16 AM 9 29