

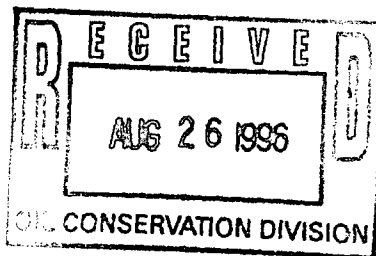
DHC 1369 9/16/96

CAULKINS OIL COMPANY

P.O. BOX 340

BLOOMFIELD, NEW MEXICO 87413

August 21, 1996



State of New Mexico
Oil Conservation Division
ATTN: Mr. William LeMay
2040 S. Pacheco
Santa Fe, NM 87505

Re: Breech "E" 118-E Commingling Approval

Dear Mr. LeMay:

Caulkins Oil Company (COC) request administrative approval to commingle our Breech "E" 118-E well located in Section 1-26N-6W, Unit E.

This well was originally dual completed as Basin Dakota - Blanco Mesa Verde on September 19, 1984. The Dakota zone was first delivered to El Paso Natural Gas Company (EPNG) on April 5, 1988.

Mesa Verde gas from this well was dedicated to Gas Company of New Mexico (GCNM) under old contracts and due to disputes between GCNM and COC the Mesa Verde was never tied-in to a transporter.

Mesa Verde gas from this well is no longer dedicated to a particular transporter.

Approval to test Mesa Verde during July, 1996 was obtained from EPNG and Ernie Bush with the OCD district office in Aztec. The Dakota zone was shut-in for the month of July and the Mesa Verde was produced through EPNG meter #92126. This flow data was used to calculate fixed percentage allocations for gas, oil and water from these zones on form C-107-A.

Please find the enclosed documents:

- A. Form C-107-A, Application for Downhole Commingling
- B. Bottomhole Pressure Measurements for Dakota and Mesa Verde
- C. Gas BTU Analysis
- D. Gas Volume Statements from EPNG for April, May, June and July, 1996
- E. Caulkins Oil Company's Oil Reports for April, May, June and July, 1996
- F. Copy of Form C-102, Well Dedication Plat

If you have any questions or if more information is required, please contact Robert L. Verquer at (505) 632-1544.

Sincerely,

A handwritten signature in cursive script that reads "Robert L. Verquer".

Robert L. Verquer,
Superintendent

EXHIBIT "B" - CASE NO. 11353, ORDER NO. R-10470-A

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

8700 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Caulkins Oil Company Address P.O. Box 340, Bloomfield, NM 87413

Case Breech "E" Well No. 118-E Unit Loc. - Sec - Twp - Rge E 1-26N-6W County Rio Arriba

OGRID NO. 003824 Property Code 002459 API NO. 30-039-23155 Spacing Unit Lease Types: (check 1 or more)
Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Blanco Mesa Verde 72319		Basin Dakota 71599
2. Top and Bottom of Pay Section (Perforations)	5030' to 5662'		7548' to 7760'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Zones - Artificial Lift: Estimated Current & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 980 b. (Original) 7-1-96 thru 7-31-96 211 MCF/Day	a. b.	a. 840 b. 4-1-96 thru 6-30-96 avg. 97 MCF/Day
6. Oil Gravity (°API) or Gas BTU Content	1235 BTU		1140 BTU
7. Producing or Shut-In?	Shut-in		Producing
Production Marginal? (yes or no)	Yes		Yes
• If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data • If Producing, give date and oil/gas/ water rates of recent test (within 60 days) D = Day M = Month	Date: Rates: Date: 7-1-96 thru 7-31-96 Rates: Gas Oil Water 211 MCF/D 130 BBL/M 20 BBL/M	Date: Rates: Date: Rates:	Date: Rates: Date: 4-1-96 thru 6-30-96 avg. Rates: Gas Oil Water 97 MCF/D 8 BBL/M 4 BBL/M
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 94 % Gas: 69 %	Oil: % Gas: %	Oil: 6 % Gas: 31 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No
15. NMOCD Reference Cases for Rule 303(C) Exceptions: ORDER NO(S). DHC-659, R-5649, R-7980
16. ATTACHMENTS:
• C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
• Production curve for each zone for at least one year. (If not available, attach explanation.)
• For zones with no production history, estimated production rates and supporting data.
• Data to support allocation method or formula.
• Notification list of all offset operators.
• Notification list of working, overriding, and royalty interests for uncommon interest cases.
• Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Robert L. Verquer TITLE Superintendent DATE 8-21-96TYPE OR PRINT NAME Robert L. Verquer TELEPHONE NO. (505) 632-1544

VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-2595
MONTHLY GAS VOLUME STATEMENT - WELLHEAD

DATE 96-05-10

PAGE

BUS MC

MAILEE
21260

CAULKINS OIL COMPANY
1600 BROADWAY, SUITE 1400
DENVER, CO 80202-9999

APRIL, 1996

METER	METER STATION NAME ADJ. DATE	AVG PSIA	AVG TEMP	BTU FACTOR	BTU @ 14.73D	COEFFIC @14.73D	DKTHERM* @14.73D	MCF @ PB @14.65#	MCF @ PB @15.025#	FLOW HOURS	DAYS OPER
02940	SANCHEZ #1E CH-MV	131.60	51	1.0000	1246	1481	1845	0	1449	262.3	
03063	SANCHEZ #5 PC/CH	109.60	53	1.0000	1200	618	741	0	606	504.7	
70485	SANCHEZ #2	129.60	52	1.0000	1261	1516	1911	0	1488	617.5	
70486	SANCHEZ #3	118.60	52	1.0000	1250	864	1083	0	845	484.4	
70563	SANCHEZ #1	132.60	61	1.0000	1273	2434	3096	0	2386	506.2	
72739	SANCHEZ #1 DK	129.60	60	1.0000	1227	6108	7492	0	5986	407.4	
73687	BREECH E #118	262.60	63	1.0000	1142	6072	6934	0	5950	291.2	
73689	BREECH F #1	105.60	54	1.0000	1183	2646	3130	0	2593	714.4	
73690	BREECH E #50	103.60	54	1.0000	1129	5634	6360	0	5523	435.1	
73692	REUTER #344	137.60	63	1.0000	1160	2679	3109	0	2623	380.6	
89472	SANCHEZ 4 CH	112.60	56	1.0000	1196	814	972	0	797	680.1	
92126	BREECH E #118E Dakota	263.60	62	1.0000	1157	2800	3239	0	2743	398.4	
93953	SANCHEZ #1E DK	129.60	60	1.0000	1227	6385	7832	0	6255	450.1	
94496	SANCHEZ #4E DK	124.60	55	1.0000	1215	3495	4246	0	3431	272.4	
94571	SANCHEZ #4E MV	118.60	64	1.0000	1270	8527	10828	0	8359	714.6	
94592	BREECH E #50E	103.60	60	1.0000	1095	4395	4812	0	4310	384.2	
94978	BREECH F #1E CDP	107.60	53	1.0000	1201	2208	2647	0	2161	144.9	
95128	BREECH F #1E DK	0.00	0	1.0000	1169	0	0	0	0		
95595	SANCHEZ #4R MV	123.60	48	1.0000	1229	2430	2986	0	2383	410.7	
95596	SANCHEZ #4R DK	116.60	50	1.0000	1144	4640	5311	0	4546	433.2	
95677	BREECH E #89E CPO	115.70	57	1.0000	1284	2136	2739	0	2091	261.0	
97572	BREECH #106 FRT	116.70	62	1.0000	1256	2099	2639	0	2056	306.0	
97706	STATE B COM #233 R	118.60	60	1.0000	1272	7507	9551	0	7359	676.3	
97707	STATE B COM #233 R DK	117.60	69	1.0000	1175	6830	8028	0	6698	718.3	
REPORT TOTAL						84318	101531	0	82638		

* - VARIANCE IN NUMBER OF CHART PERIODS COULD RESULT IN DKTH ROUNDING DIFFERENCES FOR VOLUME AND BTU.
1 - BTU FACTOR USED ONLY FOR -AS DELIVERED- CONTRACTS.

VOLUMES ON THIS STATEMENT REPRESENT 100% OF MEASURED PRODUCTION BY
METER LOCATION AND DO NOT REFLECT CURRENT MONTH MARKET ALLOCATION.

EL PASO NATURAL GAS
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-2595

DATE 96-06-09

MONTHLY GAS VOLUME STATEMENT - WELLHEAD

PAGE

MAILEE
21260

CAULKINS OIL COMPANY
1600 BROADWAY, SUITE 1400
DENVER, CO 80202-9999

BUS MO

MAY, 1996

METER	METER STATION NAME ADJ. DATE	AVG PSIA	AVG TEMP	BTU FACTOR	BTU @ 14.730	COEFFIC @14.730	DKTHERM* @14.730	MCF @ PB @14.65#	MCF @ PB @15.025#	FLOW HOURS	DAYS OPER	M/ OPI
02940	SANCHEZ #1E CH-MV	126.60	62	1.0000	1226	1676	2056	0	1641	241.3		
03063	SANCHEZ #5 PC/CH	111.60	70	1.0000	1206	742	898	0	730	497.4		
70485	SANCHEZ #2	125.60	71	1.0000	1261	1693	2136	0	1665	453.9		
70486	SANCHEZ #3	114.60	70	1.0000	1250	711	892	0	695	475.4		
70563	SANCHEZ #1	129.60	68	1.0000	1209	2568	3102	0	2514	573.8		
72739	SANCHEZ #1 DK	126.60	69	1.0000	1227	5475	6718	0	5365	362.5		
73687	BREECH E #118	281.60	74	1.0000	1131	4136	4681	0	4059	201.6		
73689	BREECH F #1	110.60	67	1.0000	1183	6075	7187	0	5953	691.4		
73690	BREECH E #50	104.60	72	1.0000	1129	5612	6337	0	5499	384.7		
73692	REUTER #344	134.60	74	1.0000	1217	2652	3227	0	2596	316.7		
89472	SANCHEZ 4 CH	113.60	75	1.0000	1196	583	697	0	573	484.1		
92126	BREECH E #118E Dakota	279.60	78	1.0000	1157	2856	3305	0	2801	350.0		
93953	SANCHEZ #1E DK	128.60	82	1.0000	1224	5797	7095	0	5679	468.2		
94496	SANCHEZ #4E DK	125.60	65	1.0000	1279	3444	4405	0	3371	303.5		
94571	SANCHEZ #4E MV	117.60	71	1.0000	1298	8668	11250	0	8498	685.9		
94592	BREECH E #50E	102.60	76	1.0000	1095	4449	4873	0	4359	366.7		
94978	BREECH F #1E CDP	109.60	74	1.0000	1201	2088	2508	0	2049	150.7		
95128	BREECH F #1E DK	0.00	0	1.0000	1169	0	0	0	0			
95595	SANCHEZ #4R MV	121.60	64	1.0000	1264	2318	2928	0	2275	333.5		
95596	SANCHEZ #4R DK	115.60	61	1.0000	1251	3931	4921	0	3858	373.3		
95677	BREECH E #89E CPD	114.70	74	1.0000	1284	2182	2801	0	2141	305.7		
97572	BREECH #106 FRT	114.70	70	1.0000	1256	2529	3176	0	2482	369.1		
97706	STATE B COM #233 R	116.60	76	1.0000	1276	7410	9458	0	7264	644.9		
97707	STATE B COM #233 R DK	116.60	81	1.0000	1182	5994	7085	0	5871	660.3		
REPORT TOTAL						83589	101736	0	81938			

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METER LOCATION AND DO NOT REFLECT CURRENT MONTH MARKET ALLOCATION.

VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-2595
MONTHLY GAS VOLUME STATEMENT - WELLHEAD

DATE 96-07-09

PAGE 1

MAILEE
21260

CAULKINS OIL COMPANY
1600 BROADWAY, SUITE 1400
DENVER, CO 80202-9999

BUS NO 6

JUNE, 1996

METER	METER STATION NAME ADJ. DATE	AVG PSIA	AVG TEMP	BTU FACTOR	BTU @ 14.73D	COEFFIC @14.73D	DKTHERM* @14.73D	MCF @ PB @14.65#	MCF @ PB @15.025#	FLOW HOURS	DAYS OPER	MAI OPER
32940	SANCHEZ #1E CH-MV	122.60	68	1.0000	1226	1444	1771	0	1417	210.0		Y
33063	SANCHEZ #5 PC/CH	116.60	77	1.0000	1206	658	797	0	643	275.1		Y
70485	SANCHEZ #2	122.60	71	1.0000	1261	1874	2364	0	1838	432.0		Y
70486	SANCHEZ #3	116.60	71	1.0000	1250	714	897	0	698	467.5		Y
70563	SANCHEZ #1	125.60	70	1.0000	1209	2319	2804	0	2277	557.0		Y
72739	SANCHEZ #1 DK	130.60	68	1.0000	1227	6093	7476	0	5973	348.7		Y
73687	BREECH E #118	287.60	69	1.0000	1131	4339	4908	0	4255	240.7		Y
73689	BREECH F #1	110.60	68	1.0000	1183	4763	5636	0	4670	564.3		Y
73690	BREECH E #50	105.60	82	1.0000	1129	5173	5840	0	5072	341.5		Y
73692	REUTER #344	137.60	74	1.0000	1217	2561	3118	0	2513	294.0		Y
89472	SANCHEZ 4 CH	110.60	78	1.0000	1196	655	784	0	639	615.0		Y
92126	BREECH E #118E Dakota	286.60	82	1.0000	1157	3338	3862	0	3275	323.1		Y
93953	SANCHEZ #1E DK	125.60	79	1.0000	1224	6262	7665	0	6136	484.6		Y
94496	SANCHEZ #4E DK	120.60	72	1.0000	1279	3089	3952	0	3028	265.7		Y
94571	SANCHEZ #4E MV	120.60	68	1.0000	1298	7702	9999	0	7546	499.6		Y
94592	BREECH E #50E	106.60	81	1.0000	1095	4299	4708	0	4212	369.5		Y
94978	BREECH F #1E CDP	110.60	84	1.0000	1201	2017	2422	0	1978	142.2		Y
95128	BREECH F #1E DK	0.00	0	1.0000	1169	0	0	0	0			Y
95595	SANCHEZ #4R MV	116.60	70	1.0000	1264	2299	2907	0	2254	366.7		Y
95596	SANCHEZ #4R DK	103.60	61	1.0000	1251	3554	4444	0	3482	284.1		Y
95677	BREECH E #89E CPD	118.70	79	1.0000	1284	1663	2133	0	1632	169.0		Y
97572	BREECH #106 FRT	120.70	72	1.0000	1256	1994	2508	0	1954	306.6		Y
97706	STATE B COM #233 R	121.60	80	1.0000	1276	7484	9550	0	7338	528.2		Y
97707	STATE B COM #233 R DK	121.60	80	1.0000	1182	6044	7145	0	5922	618.8		Y
REPORT TOTAL						80338	97690	0	78752			

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1 - BTU FACTOR USED ONLY FOR -AS DELIVERED- CONTRACTS.

VOLUMES ON THIS STATEMENT REPRESENT 100% OF MEASURED PRODUCTION BY
METER LOCATION AND DO NOT REFLECT CURRENT MONTH MARKET ALLOCATION.

8-14-1996 9:30AM
CU.LU 23

FROM CAULKINS OIL COMPANY 303 830 1.

P. 1

EL PASO NATURAL GAS
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-2595

DATE 96-08-10

MONTHLY GAS VOLUME STATEMENT - WELLHEAD

PAGE

MAILEE
21260

CAULKINS OIL COMPANY
1600 BROADWAY, SUITE 1400
DENVER, CO 80202-9999

BUS MO

JULY, 1996

METER	METER STATION NAME ADJ. DATE	AVG PSIA	AVG TEMP	BTU FACTOR	BTU @ 14.730	COEFFIC @14.730	DKTHERM* @14.730	MCF @ PB @14.65#	MCF @ PB @15.025#	FLOW HOURS	DAYS OPER	MA OPEI
02940	SANCHEZ #1E CH-MV	123.60	73	1.0000	1225	1390	1702	0	1343	294.5		
03063	SANCHEZ #5 PC/CH	124.60	82	1.0000	1204	482	579	0	451	253.3		
70485	SANCHEZ #2	122.60	72	1.0000	1258	1732	2177	0	1677	376.2		
70486	SANCHEZ #3	121.60	76	1.0000	1248	761	949	0	730	431.9		
70563	SANCHEZ #1	126.60	72	1.0000	1208	1687	2034	0	1638	370.3		
72739	SANCHEZ #1 DK	136.60	72	1.0000	1225	5542	6788	0	5421	342.1		
73687	BREECH E #118	285.60	70	1.0000	1130	4132	4668	0	4033	184.7		
73689	BREECH F #1	121.60	67	1.0000	1183	3985	4713	0	3910	377.5		
73690	BREECH E #50	112.60	82	1.0000	1129	4990	5634	0	4893	381.2		
73692	REUTER #344	139.60	77	1.0000	1215	1693	2058	0	1651	184.2		
89472	SANCHEZ 4 CH	118.60	89	1.0000	1196	453	544	0	441	328.9		
92126	BREECH E #118E Dakota	283.60	78	1.0000	1157	6681	7730	0	6548	610.1		
93953	SANCHEZ #1E DK	127.60	70	1.0000	1221	6261	7645	0	6120	445.7		
94496	SANCHEZ #4E DK	127.60	76	1.0000	1277	2870	3664	0	2796	216.2		
94571	SANCHEZ #4E MV	126.60	70	1.0000	1296	7791	10098	0	7621	532.8		
94592	BREECH E #50E	113.60	82	1.0000	1095	3509	3845	0	3439	370.2		
94978	BREECH F #1E CDP	123.60	81	1.0000	1201	2629	3155	0	2576	148.2		
95128	BREECH F #1E DK	0.00	0	1.0000	1169	0	0	0	0			
95595	SANCHEZ #4R MV	124.60	75	1.0000	1261	1757	2216	0	1699	321.5		
95596	SANCHEZ #4R DK	123.60	67	1.0000	1248	2412	3012	0	2350	208.3		
95677	BREECH E #89E CPD	124.70	81	1.0000	1306	2440	3188	0	2393	287.7		
97572	BREECH #106 FRT	124.70	74	1.0000	1251	1723	2158	0	1675	278.2		
97706	STATE B COM #233 R	129.60	83	1.0000	1274	7353	9365	0	7198	511.7		
97707	STATE B COM #233 R DK	127.60	85	1.0000	1180	5854	6909	0	5724	575.3		
REPORT TOTAL						78127	94831	0	76327			

- * - VARIANCE IN NUMBER OF CHART PERIODS COULD RESULT IN DKTH ROUNDING DIFFERENCES FOR VOLUME AND BTU.
1 - BTU FACTOR USED ONLY FOR -AS DELIVERED- CONTRACTS.

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METER LOCATION AND DO NOT REFLECT CURRENT MONTH MARKET ALLOCATION.

AGREEMENT NUMBER: SW73

CAULKINS OIL COMPANY

04/96

WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER	WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER
118	D	11	0.00	2	8.00	152.98	37.20	2074	118-E	D	11	1.50	11	5.75	223.19	230.28	3739
118-E	M	0	0.00	0	0.00	0.00	0.00	3740									

TANK SEAL DATA	TANK #	SEAL ON	SEAL OFF	REASON OFF	DATE ON	TANK #	SEAL ON	SEAL OFF	REASON OFF	DATE ON
	2074	194724	182403	RUN	04/10/96					

SALES DATA	WELL NAME	POOL	TANK NO.	RUN TICKET #	SALE DATE	START FT.	START IN.	END FT.	END IN.	GROSS BBLs	ALLOCATION	NET CORRECTED BBLs
	BRECH E 118	D	2074	64-90267	04/10/96	12	0.00	1	4.00	148.27	100 %	147.81

WELL DATA	WELL NAME	POOL	LEASE NUMBER	DAYS PRODUCED	OPENING STOCK	CLOSING STOCK	OIL PRODUCED	OIL SOLD	BS&M	WATER PRODUCED
	BRECH E 118	BASIN DAKOTA	SW73	30	152.98	37.20	32.03	147.81	0.00	4.80
	BRECH E 118-E	BASIN DAKOTA	SW73	30	223.19	230.28	7.09	0.00	0.00	1.06
	BRECH E 118-E	BLANCO MESA VERDE GAS	SW73	0	0.00	0.00	0.00	0.00	0.00	0.00

LEASE TOTALS:					376.17	267.48	39.12	147.81	0.00	5.86
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WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER	WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER
118	D	2	8.00	3	10.25	37.20	53.72	2074	118-E	D	11	5.75	2	3.25	230.28	45.69	3739
118-E	M	0	0.00	0	0.00	0.00	0.00	3740									

TANK SEAL DATA

TANK #	SEAL ON	SEAL OFF	REASON OFF	DATE ON	TANK #	SEAL ON	SEAL OFF	REASON OFF	DATE ON
3739	223502	162800	RUN	05/11/96					

SALES DATA

WELL NAME	POOL	TANK NO.	RUN TICKET #	SALE DATE	START FT.	START IN.	END FT.	END IN.	GROSS BBLs	ALLOCATION	NET CORRECTED BBLs
BRECH E 118-E	D	3739	11-91206	05/11/96	11	9.75	2	1.00	195.04	100 %	193.71

WELL DATA

WELL NAME	POOL	LEASE NUMBER	DAYS PRODUCED	OPENING STOCK	CLOSING STOCK	OIL PRODUCED	OIL SOLD	BS&M	WATER PRODUCED
BRECH E 118	BASIN DAKOTA	SW73	24	37.20	53.72	16.52	0.00	0.00	2.48
BRECH E 118-E	BASIN DAKOTA	SW73	31	230.28	45.69	9.12	193.71	0.00	1.37
BRECH E 118-E	BLANCO MESA VERDE GAS	SW73	0	0.00	0.00	0.00	0.00	0.00	0.00

LEASE TOTALS:

267.48	99.41	25.64	193.71	0.00	3.85
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AGREEMENT NUMBER: SW73

CAULKINS OIL COMPANY

06/96

WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER	WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER
118	0	3	10.25	4	6.25	53.72	62.98	2074	118-E	0	2	3.25	2	6.75	45.69	51.56	3739
118-E	M	0	0.00	0	0.00	0.00	0.00	3740									

WELL DATA.....

WELL NAME	POOL	LEASE NUMBER	DAYS PRODUCED	OPENING STOCK	CLOSING STOCK	OIL PRODUCED	OIL SOLD	BS&M	WATER PRODUCED
BREECH E 118	BASIN DAKOTA	SW73	30	53.72	62.98	9.26	0.00	0.00	1.39
BREECH E 118-E	BASIN DAKOTA	SW73	30	45.69	51.56	5.87	0.00	0.00	0.88
BREECH E 118-E	BLANCO MESA VERDE GAS	SW73	0	0.00	0.00	0.00	0.00	0.00	0.00

LEASE TOTALS:				99.41	114.54	15.13	0.00	0.00	2.27
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AGREEMENT NUMBER: SW73

CAULKINS OIL COMPANY

07/96

WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER	WELL NUMBER	POOL NAME	START FEET	START INCHES	END FEET	END INCHES	START BARRELS	END BARRELS	TANK NUMBER
118	D	4	6.25	5	8.25	62.98	79.19	2074	118-E	M	0	0.00	0	0.00	0.00	0.00	3740
118-E	D	2	6.75	9	0.75	51.56	181.85	3739									

TANK SEAL DATA.....

TANK #	SEAL ON	SEAL OFF	REASON OFF	DATE ON	TANK #	SEAL ON	SEAL OFF	REASON OFF	DATE ON
3740	BLM852	2483	BLM FOUND SEAL BROKEN	07/24/96	3740	5890	BLM852	REPLACE BLM SEAL WITH CAULKINS	07/25/96

WELL DATA.....

WELL NAME	POOL	LEASE NUMBER	DAYS PRODUCED	OPENING STOCK	CLOSING STOCK	OIL PRODUCED	OIL SOLD	BS&M	WATER PRODUCED
BREECH E 118	BASIN DAKOTA	SW73	31	62.98	79.19	16.21	0.00	0.00	2.43
BREECH E 118-E	BASIN DAKOTA	SW73	31	51.56	181.85	130.29	0.00	0.00	19.54
BREECH E 118-E	BLANCO MESA VERDE GAS	SW73	0	0.00	0.00	0.00	0.00	0.00	0.00

LEASE TOTALS:

114.54	261.04	146.50	0.00	0.00	21.97
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All distances must be from the outer boundaries of the Section.

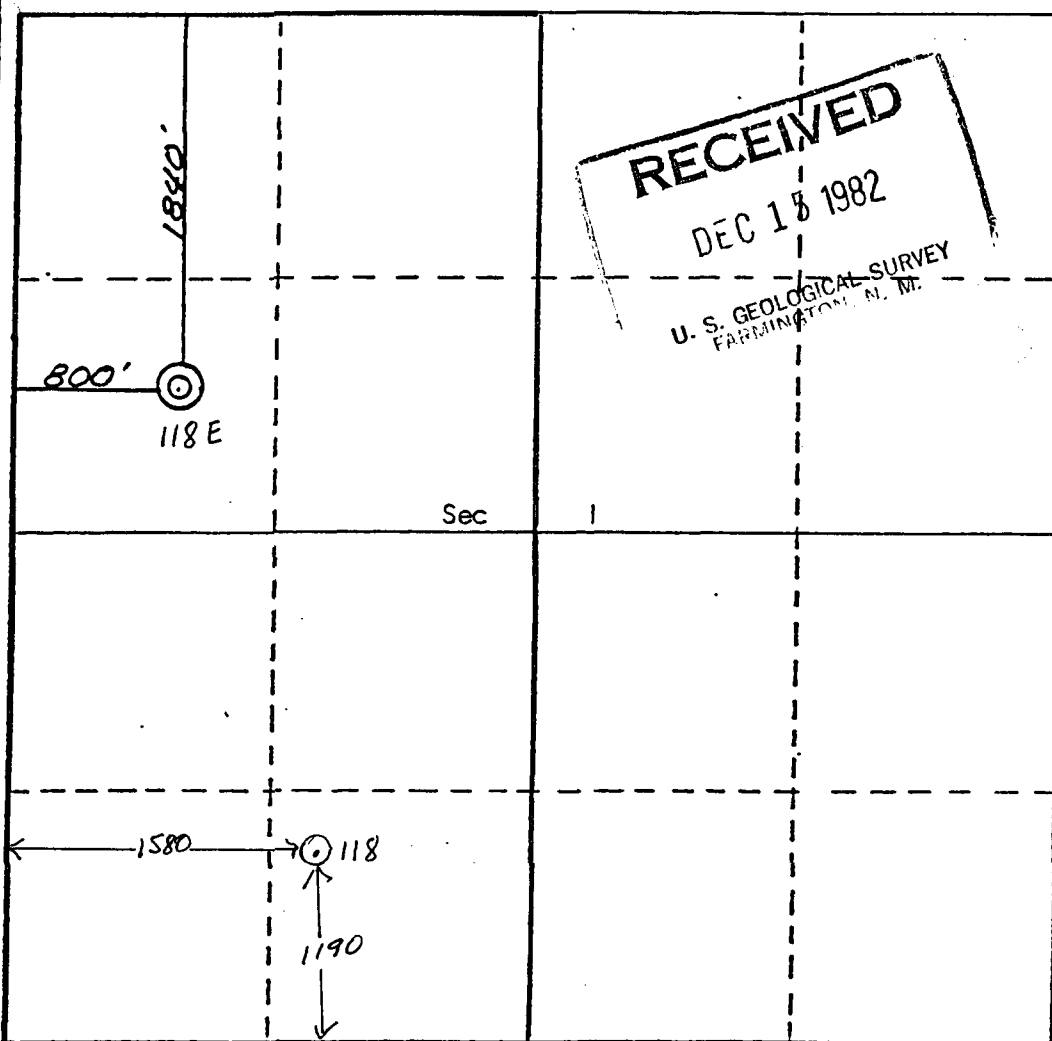
Operator CAULKINS OIL COMPANY			Lease Breach "E"		Well No. 118-E
Unit Letter E	Section 1	Township 26N	Range 6W	County Rio Arriba	
Actual Footage Location of Well: 1840 feet from the North line and 800 feet from the West line					
Ground Level Elev. 6743	Producing Formation Mesa Verde-Dakota		Pool Blanco Mesa Verde-Basin Dakota		Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Charles Verquer
Name

Charles Verquer

Position

Superintendent

Company

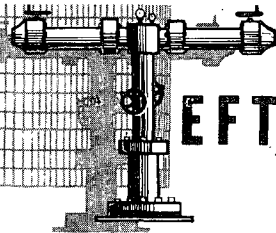
Caulkins Oil Company

Date

12-13-82

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

October 1982
Date Surveyed
Curtis C. Stocking
Registered Professional Engineer
and/or Land Surveyor
5980
Certificate No.



BHP • BU • PI • DD • GWT • RFS • GOR • FL • TS

TEFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO
GRAND JUNCTION, COLORADO

P. O. Box 5278
Midland, Texas 79704-5278
(915) 694-0477

Midland Fax (915) 694-7602
Farmington Fax (505) 325-1148
Grand Junction Fax (303) 241-7634

August 1, 1996

Caulkins Oil Company
Box 340
Bloomfield, NM 87413

Attn: Mr. Robert Verquer

Subject: Bottomhole Pressure Measurement
Breach "E" No.118-E
Rio Arriba County, New Mexico
File No. 2-27833-P

Dear Mr. Verquer:

Attached hereto are the results of a bottomhole pressure measurement which was conducted on the above captioned well July 30, 1996.

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller

NT/lw

Serving the Permian Basin & Rocky Mountain Area

TEFTELLER INC

RESERVOIR ENGINEERING DATA

P.O. BOX 5278 MIDLAND, TEXAS 79704

(915) 694-0477

COMPANY : CAULKINS OIL CO

WELL NAME : BREECH E # 118-E

FIELD :

RESERVOIR : DAKOTA

PERFS : 7548-7760

TEST DATE : 07/30/1996

TEFTELLER INC

Pressure Gradient Report

COMP : CAULKINS OIL CO	WELL : BREECH E # 118-E	T : 0.0
FIELD :	RES : DAKOTA	DATUM : 7600.0
DATE : 07/30/1996	STATUS : S.I.	HRS : 0.0
TBG : 1-1/2 DPTH :	END : 7744	PKR :
CSG : DPTH :	PERFS : 7548-7760	GRAD : 0.023000 T D :

Depth (ft)	Pressure (psig)	Delta P (psi)	Gradient (psi/ft)
0	697.0		
2000	735.0	38.0	0.0190
4000	773.0	38.0	0.0190
6000	807.0	34.0	0.0170
7000	826.0	19.0	0.0190
7300	833.0	7.0	0.0233
7600	840.0	7.0	0.0233
7600	840.0	0.0	

REMARKS : TUBING PRESSURE 697
CASING PRESSURE: PKR

0

CAULKINS OIL CO
BREECH E # 118-E
07/30/1996

GRADIENT

TEFTELLER INC.

1600

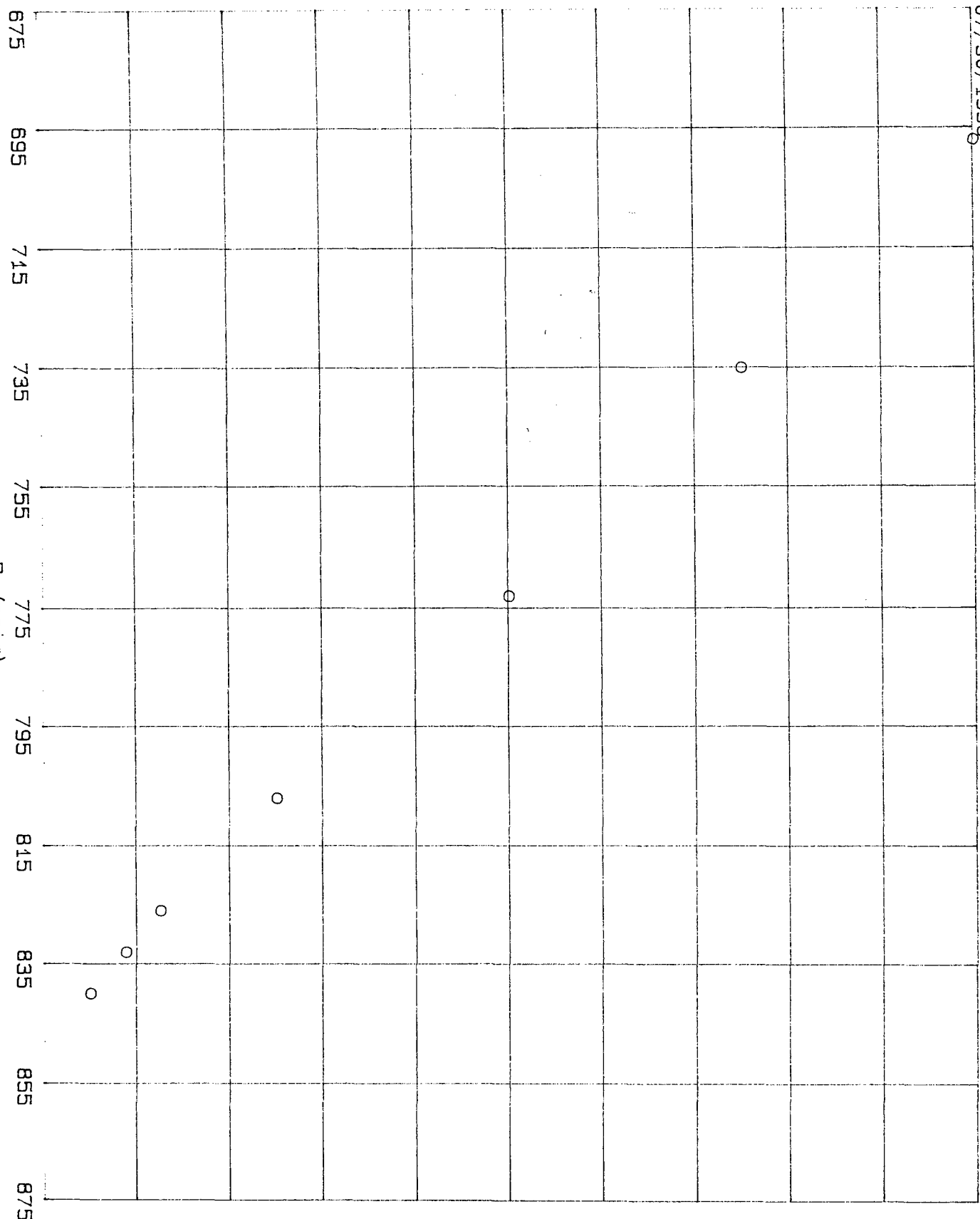
3200

4800

6400

8000

DEPTH (ft)





1115 Farmington Avenue
Farmington, N.M. 87401
(505) 325-6622

Analysis No. CAU60001
Cust. No. 17000-10015

WELL/LEASE INFORMATION

Company	: CAULKINS OIL COMPANY	Source	:
Well Name	: BREECH E 118E	Pressure	: 244 PSIG
County	:	Sample Temp.	: 71 DEG.F
State	:	Well Flowing	: YES
Location	:	Date Sampled	: 08/20/96
Fld/Formation	: DAKOTA	Sampled By	: BOBBY VERQUER
Cust.Stn.No.	:	Foreman/Engr	:

Remarks:

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR.*
NITROGEN	0.154	0.0000	0.00	0.0015
CO2	1.241	0.0000	0.00	0.0189
METHANE	87.639	0.0000	887.17	0.4854
ETHANE	6.820	1.8244	120.97	0.0708
PROPANE	2.285	0.6297	57.63	0.0348
I-BUTANE	0.461	0.1508	15.03	0.0093
N-BUTANE	0.597	0.1882	19.52	0.0120
I-PENTANE	0.272	0.0995	10.91	0.0068
N-PENTANE	0.165	0.0598	6.63	0.0041
HEXANES	0.366	0.1596	18.82	0.0118
TOTAL	100.000	3.1120	1136.66	0.6554

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR	(1/Z)	1.0029
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1140.0
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1120.1
REAL SPECIFIC GRAVITY		0.6570

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

CYLINDER #	: AZT009
CYLINDER PRESSURE	: 253 PSIG
DATE RUN	: 08/20/96
ANALYSIS RUN BY	: CHELLE DURBIN



1115 Farmington Avenue
Farmington, N.M. 87401
(505) 325-6622

Analysis No. CAU60002
Cust. No. 17000-10020

WELL/LEASE INFORMATION

Company	: CAULKINS OIL COMPANY	Source	:
Well Name	: BREECH E 118E	Pressure	: 249 PSIG
County	:	Sample Temp.	: 77 DEG.F
State	:	Well Flowing	: YES
Location	:	Date Sampled	: 08/20/96
Fld/Formation	: MESA VERDE	Sampled By	: BOBBY VERQUER
Cust.Stn.No.	:	Foreman/Engr	:

Remarks:

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR.*
NITROGEN	0.577	0.0000	0.00	0.0056
CO2	0.520	0.0000	0.00	0.0079
METHANE	80.230	0.0000	812.17	0.4444
ETHANE	10.649	2.8486	188.88	0.1106
PROPANE	5.369	1.4797	135.40	0.0817
I-BUTANE	0.788	0.2578	25.68	0.0158
N-BUTANE	1.165	0.3673	38.09	0.0234
I-PENTANE	0.290	0.1061	11.63	0.0072
N-PENTANE	0.200	0.0724	8.04	0.0050
HEXANES	0.212	0.0925	10.90	0.0068
TOTAL	100.000	5.2244	1230.79	0.7083

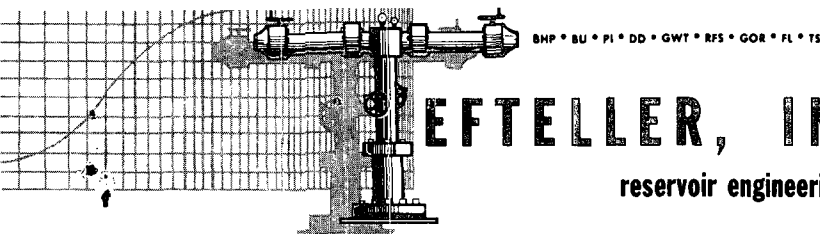
* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR	(1/Z)	1.0034
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1235.0
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1213.5
REAL SPECIFIC GRAVITY		0.7104

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

CYLINDER #	: 046
CYLINDER PRESSURE	: 264 PSIG
DATE RUN	: 08/20/96
ANALYSIS RUN BY	: CHELLE DURBIN



MIDLAND, TEXAS / FARMINGTON, NEW MEXICO
GRAND JUNCTION, COLORADO

P. O. Box 5278
Midland, Texas 79704-5278
(915) 694-0477

Midland Fax (915) 694-7602
Farmington Fax (505) 325-1148
Grand Junction Fax (303) 241-7634

July 01, 1996

Caulkins Oil Co.
Box 340
Bloomfield, NM 87413

Attention: Mr. Bobby Verquer

Subject: Bottomhole Pressure Measurements
Breech No. 118-E
Rio Arriba County, New Mexico
Our File No. 2-27525-P

Dear Mr. Verquer:

Attached hereto is the results of bottomhole pressure measurements which was conducted on the above captioned well January 10 and 11, 1996.

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller

NT/db

TEFTELLER INC

RESERVOIR ENGINEERING DATA

P.O. BOX 5278 MIDLAND, TEXAS 79704

(915) 694-0477

COMPANY : CAULKINS OIL CO.

WELL NAME : BREECH #1181

FIELD :

RESERVOIR : MESA VERDE

PERFS : 5030-5662

TEST DATE : 6-28-1996

TEFTELLER INC

Pressure Gradient Report

COMP : CAULKINS OIL CO. WELL : BREECH #1181 T : 0.0
 FIELD : RES : MESA VERDE DATUM : 5600.0
 DATE : 6-28-1996 STATUS : SI HRS : 0.0
 TBG : 1-1/4 DPTH : END : 5636 PKR : S N :
 CSG : DPTH : PERFS : 5030-5662 GRAD : 0.035000 T D :

Depth (ft)	Pressure (psig)	Delta P (psi)	Gradient (psi/ft)
0	832.0		
2000	880.0	48.0	0.0240
4000	933.0	53.0	0.0265
5200	967.0	34.0	0.0283
5400	973.0	6.0	0.0300
5600	980.0	7.0	0.0350
5600	980.0	0.0	

REMARKS : CSG PRESSURE 830 TBG PRESSURE 832

CAULKINS OIL CO.
BREECH #1181
6-28-1996

TEFTELLER INC.

GRADIENT

