Case No.

311

Large Exhibits

BAGLEY-SILURO DEVONIAN BOTTOM HOLE PRESSURES

DATUM (-6700')

Survey DATE & Shut in Time

	COMPANY AND WELL NO.			LOCATION	Nov. 1949	April 1950	Oct. 1950	April 1951	Oct. 1951	April 1952	July 1952	Nov. 1952	Apr MAR 53
	AMERADA PETROLEUM CORPORATION												
1-19-51	Caudle	2	D	3-12-33				~~56:30 4229~~ 56:30 4229	~~41:30 4166~~ 41:30 4166	46:15 4181	54 4147	50 4108	49 4087
12-15-51	Caudle	5	A	"						44:15 4222	53 4208	53 3981	52 4146
8-16-50	Chambers	1	F	11-12-33							53 4172 ~~4250~~	48 4154	51 4101
2-8-51	Mathers	1	H	3-12-33				51' 4220	77' 4177	45:15 4187	49 4148	52 4164	49 4176
9-1-51	Mathers A	1	B	"					51' 4198	43:45 4178	51 4140	51 4114	50 4072
1-19-52	Mathers A	2	F	"						56:30 4213	53 4229	50 4210	49 4166
7-16-49	State BTA	1	J	2-12-33	56'00 4247	44'–56'– 4275	54 4260	59:30 4281	49' 4220	48:15 4224	50 4221	51 4213	50 4194
10-2-49	State BTC	1	N	35-11-33	48'00 4300	46' 4264	52 4269	53' 4292	50' 4226	45' 4234	55 4206	51 4200	50 4191
4-8-51	State BTC	3	L	"					49' 4211	46:30 4245	55 4217	54 4210	50 4232
12-5-49	State BTD	1	N	2-12-33		42' 4280	48 4215	54:30 4240	48 4164	45:15 4205	53 4185	50 4169	50 4150
3-31-50	State BTD	2	J	35-11-33		48 4273	50 4232	53:30 4255	65' 3631	—	53 3729	48 3501	50 3481
9-8-50	State BTD	3	P	"			52 4245	41:30 4249	67 4175	46:15 4086	52 4030	49 4012	51 4038
12-5-50	State BTI	1	D	2-12-33				50:30 4278	48 4222	49 4236	51 4193	57 4198	50 4161
6-2-51	State BTL	1	P	"					69 4160	44:30 4206	49 4177	53 4151	50 4155
10-2-51	State BTM	1	H	34-11-33							56 4202	52 4184	49 4194
	State BTN	1	P	"							54 4197	53 4183	50 4174
	TEXAS-PACIFIC COAL AND OIL COMPANY												
12-6-49	State B	1	H	2-12-33			34 4226	48 4272	40 4258	4240	72 4283	50 4206	74 4180
	State B	2	B	11-12-33			~~24 4255~~				72 4138	51 4147	58 4157
4-21-50	State C Ac/1	1	B	2-12-33			24 4235	48 4276	40 4228	4205	72 4291	54 4211	52 4185
6-9-50	State C "	2	F	"			24 4252	48 4263	40 4237	4200	72 4238	56 4206	72 4200
8-18-50	State C "	3	L	"			24 4266	48 4256	40 4230	4212	72 4218	58 4153	56 4135
	STATE D	1										80 4215	
									4167	4162	4126		

Bottom H... Pressures - Bagley - Siluro-Devonian (-6700) - 48 hr S.I.

	Company & Lease	Well No.	Unit & Sec.	Nov. 1949	April 1950	Oct 1950	...il 51	Oct. 1951	April 1952	July 1952	Nov. 1952	Mar. 1953
	Amerada Pet. Corp											
W 12,012-45	Caudle	2	D-3				229	4166	4181	4147	4108	4087
W	Caudle	5	A-3						4222	4208	3981	4146
W 11,014-26	Chambers	1	F-11							4172	4139	4101
W 10,934-64	Mathers	1	H-3				220	4177	4187	4178	4164	4176
W	Mathers A	1	B-3					4198	4178	4140	4114	4072
W	Mathers A	2	F-3						4213	4229	4210	4166
10,950-75	STATE BTA	1	J-2	4247	4275	4260	281	4220	4224	4221	4213	4194
10,959-79	STATE BTC	1	N-35	4300	4264	4269	292	4226	4234	4206	4200	4191
10,895-965	" "	3	L-35					4211	4245	4217	4210	4232
10,960-75	STATE BTD	1	N-2		4280	4278	240	4164	4205	4185	4169	4150
W 11,960-75	" "	2	J-35		4273	4232	4255	3631	—	3729	3501	3481
10,897-957	" "	3	P-35			4248	249	4175	4086	4030	4092	4038
10,922-960	STATE BTI	1	D-2				4278	4222	4236	4193	4198	4161
	STATE BTL	1	P-2					4160	4206	4177	4151	4155
W	STATE BTM	1	H-34							4202	4184	4194
	STATE BTN	1	P-34							4197	4183	4174
	Texas Pacific Coal											
W 10,765-914	STATE B	1	H-2			4226	4272	4258	4240	4283	4206	4180
	" "	2	B-11							4138	4147	4157
10,650-822	STATE C	1	B-2			4235	4276	4228	4205	4291	4211	4185
10,778-949	" "	2	F-2			4252	4263	4237	4200	4238	4206	4200
10,907-914	" "	3	L-2			4266	4256	4230	4215	4218	4153	4135
				4274 (2)	4273 (4)	4252 (9)	4259 (12)	4167 (15)	4205 (16)	4152 (16)	4114 (16)	4107 (16)

BAGLEY- SILURO DEVONIAN OIL PRODUCTION DATA

COMPANY & WELL NO.			LOCATION	1952 JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCTOBER	NOVEMBER	DECEM.	1953 JAN	FEBRUARY	MARCH	APRIL	MAY	JUNE
AMERADA PET. CORP.																					
Caudle	2	D	3-12-33	4122	4,964	5615	4,608	2087	3815	3033	3702	3460	4893	3099	3951	2983	2862	2826	2628		
Caudle	5	A	"	8938	7192	7285	7204	2347	6485	5521	6676	6188	6394	6186	6446	6393	5768	3412	3977		
Chambers	1	F	11-12-33	2104	2030	1921	1462	27	974	938	1449	1588	1862	3000	1303	1427	1212	1090	1034		
Mathers	1	H	3-12-33	6000	5800	8729	7458	2522	5023	1225	9362	9515	9832	9511	9830	9832	8876	9828	9510		
Mathers A	1	B	"	11,129	7807	10,540	11,557	2871	9635	7120	9362	9517	9307	9510	9827	9827	8876	9827	9510		
Mathers A	2	F	"	975	7808	10,540	11,556	2870	9635	7119	9362	9516	9307	6855	8332	5835	3961	3938	3592		
State BTA	1	J	2-12-33	10,265	11,652	11,359	10,626	3592	9714	9344	9362	9515	9831	9510	9832	9829	8876	9827	9510		
State BTC	1	N	35-11-33	10,429	11,488	11,035	11,244	2870	10076	9168	9362	9512	9832	9514	9833	9835	8935	9873	9510		
State BTC	3	L	"	10,429	11,488	11,035	11,244	2870	10,076	9168	9362	9511	9832	9513	9838	9835	8936	9874	9510		
State BTD	1	N	2-12-33	11,129	10,788	10,977	11,795	2756	10,673	8957	9600	9542	9830	9513	10,759	9829	8876	9827	9510		
State BTD	2	J	35-11-33	3548	6826	6955	3,545	2025	8,819	7662	9362	8926	9023	6928	9828	9829	8876	9827	9510		
State BTD	3	P	"	9587	7841	8115	4,136	2363	8,819	7662	9362	8926	9023	9510	9828	9828	8876	9827	9510		
State BTI	1	D	2-12-33	11,129	10,788	11 ~~11~~,571	11,150	3002	9,448	8992	9416	9308	9616	9304	9610	9616	8688 ~~8842~~	9610	9300		
State BTL	1	P	2-12-33	11,129	10,788	11,495	11,501	2594	10036	9019	9781	9230	9831	9512	9827	9830	8876	9827	9510		
State BTM	1	H	34-11-33	461	650	810	1080	648	599	827	1345	1326	856	899	877	820	701	607	760 ~~1380~~		
State BTN	1	P	"	—	—	—	—	—	3541	6698	9384	9557	9835	9516	9827	9837	8876	9827	9510		
MONTHLY COMPANY TOTAL				111,374	117,910	127,900	120,166	35,444	117,368	107,453	125,699	125,137	129,104	121,880	129,742	125,385	112,019 ~~112,173~~	119,847	116,891		
COMPANY CUMULATIVE				1,507,334	1,625,244	1,753,144	1,873,310	1,908,754	2,026,122	2,133,515	2,259,274	2,384,411	2,513,515	2,635,395	2,763,831	,892,216	3,004,389	3,121082	3,237,573		
TEXAS-PACIFIC COAL AND OIL COMPANY																					
State B	1	H	2-12-33	11,231	10,791	11,540	11,175	2723	9595	9941	9279	9512	10416	8828	10114	9755	9229	9706	9542		
State B	2	B	11-12-33	~~[illegible]~~	—	—		1052	9596	9942	9280	9512	10417	8829	10114	9756	9229	9706	9542		
State C Am/1	1	B	2-12-33	11,162	10,852	11,595	11,167	2383	10071	9725	9319	9552	10738	8820	9729	10071	9109	9898	9169		
State C "	2	5F	"	11,162	10,852	11,594	11,167	2383	10071	9725	9319	9552	10738	8821	9729	10072	9108	9898	9169		
State C "	3	L	"	11,161	10,852	11,594	11,167	2383	10073	9727	9320	9552	10737	8820	9728	10072	9108	9897	9169		
MONTHLY COMPANY TOTAL				44,716	43,347	46,323	44,676	10924	49,406 ~~46,714~~	49060	46,517	47680	53046	44,118	49,413	49,726	45,783 ~~27,326~~	49,105	46,591		
COMPANY CUMULATIVE				740,576	783,923	830,246	874,922 ~~919,698~~	885846	936,252 ~~[illegible]~~	984,812	1,030,829	1,078,509	1,131,555	1,175,673	1,225,086 ~~1,229,960~~	1,274,812	1,320,595	1,369,700	1,416,291		
Field Total.				156,090	161,257	174,223	164,842	46368	166,774 ~~166,082~~	156,513	172216	172,817	182,150	165,998	179,155	175,111	157,892	168,952	162,982		
FIELD CUMULATIVE				2,247,910	2,409,167	2,583,390	2,748,222 ~~2,798,222~~	2,794,600	2,961,374 ~~2,966,602~~	3,117,387	3,289,603	3,462,420	3,644,570	3,811,068	3,988,911	4167028	4,324,984	4,490,782	4653284		

		Jan			April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
[illegible]	Oil Cum Oil	[illegible]		785 [illegible]	11147 220478	2352 222785	10871 252566	9925 242591	2517 251[illegible]	2558 261162	10729 272[illegible]	9930 281[illegible]20	[illegible] 28[illegible]	10071 [illegible]90	9152 309721	9878 319827	9169 328796
[illegible]	Water Cum Water Oil Cum Oil	[illegible]		[illegible]	11167 210280	2585 212131	10871 222022	9925 231[illegible]7	2517 241138	2552 251258	10729 262026	8871 272547	97[illegible] 2805[illegible]	10072 290647	9158 299755	9818 307653	9169 318822
[illegible]	Water Cum Water Oil	[illegible]		[illegible]	11187 175578	2585 197741	10[illegible]5 207554	9987 217511	2577 226881	2552 234933	10737 247170	8890 255710	[illegible] 2657[illegible]	10072 275790	9128 284878	9817 294795	9169 303964
	Water Cum Water																
Monthly Total Cumulative		194690 2254936	[illegible] 2418194	194223 2595417	164842 2755559	161367 2801678	166774 2968[illegible]	156513 3124913	172216 3297129	172817 3469946	182150 3652096	164692 3816788	179155 3995943	175116 4171154	157802 4328956	168952 4497908	162982 4660890

Pool Cumulative oil 4,660,890

water 594,805

Bottom Hole Pressures
Bagley – Devonian
Comparison

Avg of 16 wells taken in April 1952 is 4205. Same 16 wells in July 1952 is 67161/16 = 4198. Of these 16 there are 4 wells of T.P. which were shut in 72 hrs on July, 1952 survey. No shut in time is available for April survey.

Taking 12 wells of Amerada's which were included on April + July survey indicates as follows

April, 1952 – 50417/12 = 4201 (46 2/3)
July, 1952 = 50131/12 = 4178 (50.08)
Nov., 1952 = 49810/12 = 4151 (51.75)
March, 1953 = 49768/12 = 4147 (50.0)

BAGLEY-SILURO DEVONIAN WATER PRODUCTION DATA

1952

COMPANY AND WELL NO.	LOCATION	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
AMERADA PETROLEUM CORPORATION					~~6912~~	~~3137~~							
Caudle 2 D	3-12-33				6912	3131	5723	4744	8638	7701	7340	5509	5927
Caudle 5 A	"									326	556	687	485
Chambers 1 F	11-12-33				2968	82	2273	2088	2942	3705	7005	4147	3709
Mathers 1 H	3-12-33				476	161	321	615	1040	827	972	1421	1092
Mathers A 1 B	"							71	493	941	1034	1057	1092
Mathers A 2 F	"				1005	263	1071	971	3121	6891	8253	13,918	6916
State BTA 1 J	2-12-33												
State BTC 1 N	35-11-33												
State BTC 3 L	"												
State BTD 1 N	2-12-33												
State BTD 2 J	35-11-33									570	679	442	627
State BTD 3 P	"												
State BTI 1 D	2-12-33												
State BTL 1 P	2-12-33												
State BTM 1 H	34-11-33				9720	6246	5391	7443	8569	10729	7704	8091	8930
State BTN 1 P	"												
MONTHLY COMPANY TOTAL					21,081	9883	14,779	15,932	24,803	31,690	33,543	35,272	28,778
COMPANY CUMULATIVE					264,798	274,681	289,460	305,392	330,195	361,885	395,428	430,730	459,508
TEXAS-PACIFIC COAL AND OIL COMPANY													
State B 1 H	2-12-33					74	74	74	1	1	1		
State B 2 B	11-12-33						7	7	7	7	7		
State C Ac/1 1 B	2-12-33								1	1	1		
State C " 2 F	"								1	1	1		
State C " 3 L	"								1	1	1		
MONTHLY COMPANY TOTAL						74	81	81	~~11~~	11	11		
COMPANY CUMULATIVE						222	303	384	~~406~~ ~~395~~	401 395			
FIELD TOTAL													
FIELD CUMULATIVE													

1953

COMPANY AND WELL NO.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
AMERADA PETROLEUM CORPORATION												
Caudle 2 D	5079	6538	8480	7884								
Caudle 5 A	1,128	1442	8343	5062								
Chambers 1 F	3494	3277	4647	3102								
Mathers 1 H	1215	2959	517	2682								
Mathers A 1 B	1092	786	628	827								
Mathers A 2 F	11,327	7356	10468	8381								
State BTA 1 J				294								
State BTC 1 N												
State BTC 3 L												
State BTD 1 N												
State BTD 2 J	627	668	740	786								
State BTD 3 P												
State BTI 1 D												
State BTL 1 P												
State BTM 1 H	7380	6381	5460	10,097 ~~5460~~								
State BTN 1 P												
MONTHLY COMPANY TOTAL	31,342	29,607	35,283	39,045								
COMPANY CUMULATIVE	490,850	520,457	555,740	594,755								
TEXAS-PACIFIC COAL AND OIL COMPANY												
State B 1 H		1										
State B 2 B		6										
State C Ac/1 1 B		1										
State C " 2 F		1										
State C " 3 L		1										
MONTHLY COMPANY TOTAL												
COMPANY CUMULATIVE												
FIELD TOTAL												
FIELD CUMULATIVE												

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		52												53			
		Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
State [illegible] [illegible] Sec. 2	Oil	11129	10788	[illegible]	11785	2756	10623	8557	9600	9542	9880	9513	107[illegible]	9829	8876	9827	9510
	Cum. Oil	199448	209856	[illegible]	232578	235334	246007	254964	264564	274108	283136	293445	3072[illegible]	314137	323013	332740	342250
State [illegible] 2 [illegible] Sec. [illegible]	Water																
	Cum. Water																110,195
	Oil	3598	6552	[illegible]	9845	2025	8819	7662	9562	8926	9623	[illegible]	[illegible]	9829	8876	9527	9510
	Cum. Oil	141445	148491	[illegible]	158991	161016	169835	177497	186859	195785	204808	211936	2315[illegible]	231593	240269	250076	257686
State [illegible] 3 [illegible] Sec. [illegible]	Water									570	679	442	[illegible]	607	668	740	716
	Cum. Water				25018	25018	25018	25018	25018	25588	26267	26709	273[illegible]	27963	28631	29371	30087
	Oil	9587	7541	[illegible]	4156	2343	8819	7162	9542	5726	9433	[illegible]	[illegible]	9828	8876	9827	9510
	Cum. Oil	[illegible]	131887	[illegible]	144158	146501	155320	162982	172344	181270	190295	199803	2096[illegible]	219457	228335	238162	247672
[illegible] [illegible] Sec. 2	Water																16,799
	Oil	11129	10788	[illegible]	11150	5092	9448	8992	9412	9358	[illegible]	9500	[illegible]	9616	8688	[illegible]	9500
	Cum. Oil	[illegible]	153155	[illegible]	176416	179478	188826	197918	207334	216642	226258	235562	2451[illegible]	254788	263476	273086	281386
[illegible] 1 [illegible] Sec. 2	Oil	11132	10788	[illegible]	11581	2594	10056	9577	9981	9830	9831	9512	[illegible]	9530	[illegible]	9827	9510
	Cum. Oil	57043	67791	[illegible]	90787	93381	103417	112436	122247	131447	141278	150790	1606[illegible]	170447	179323	189150	198660
[illegible] H Sec. 3	Oil	461	650	[illegible]	1080	648	599	827	1585	1326	856	899	[illegible]	820	709	607	760
	Cum. Oil	1480	2130	[illegible]	4020	4668	5267	6094	7489	8815	9671	10570	1149[illegible]	12267	12976	13583	14343
State 13-A 1 [illegible]	Water				9720	[illegible]	5591	7443	8569	10729	7704	8491	[illegible]	7380	6581	5460	10077
	Cum. Water				36180	43426	47817	55260	63829	74558	82262	90353	99283	106613	113044	118504	128601
	Oil	—	—	—	—	—	3541	6698	9384	9557	9835	9516	[illegible]	9827	8876	9827	9510
	Cum. Oil						—	10239	19623	29180	39015	48531	58350	68195	77071	86898	96408
State B [illegible] [illegible] Sec. 2	Water																
	Cum. Water																
	Oil	11331	10791	[illegible]	11175	2723	9595	9941	9279	9512	10416	8828	10114	9755	9827	9706	9542
	Cum. Oil	215444	226205	[illegible]	248520	251643	261238	271179	280458	289970	300386	309214	319328	329083	338312	348018	357560
State B 2 [illegible] Sec. 11	Water																
	Cum. Water																
	Oil	—	—	—	—	1052	9596	9942	9280	9512	10417	8829	10114	9756	9227	9706	9542
	Cum. Oil						10648	20590	29870	39382	49799	58628	68742	78498	87725	97433	106975

		1952												53			
		Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April
Caudle 2 D Sec. 3	Oil	4192	4964	[illegible]	4658	2087	3845	3033	3762	3460	4893	3099	3951	2783	2802	2826	2628
	Cum. oil	96390	101354	[illegible]	111577	113664	117479	120512	124214	127674	132567	135666	139617	142400	145202	148028	150856
Caudle 5 H Sec. 3	Water				4912	3131	5723	4744	8638	7701	7340	5509	5927	5079	6538	8480	7884
	Cum. water				37706	40837	46560	51304	59942	67643	74983	80492	86419	91498	98036	106516	114400
	Oil	8938	7192	[illegible]	7204	2347	6485	5521	6076	6188	6394	6186	6446	6393	5768	3412	3977
	Cum. Oil	8938	16130	[illegible]	30547	32894	39379	44900	50976	57164	63558	69744	76190	82583	88351	91763	95740
Chambers 1 F Sec. 11	Water									376	556	687	485	1128	1442	4343	5012
	Cum. Water										882	1569	2054	3182	4624	8967	14029
	Oil	2104	2020	[illegible]	1542	27	974	738	1449	1588	1862	1694	1303	1427	1212	1090	1034
	Cum. Oil	33925	36025	[illegible]	39386	39413	40387	41325	42774	44362	46224	47918	49221	50648	51860	52950	53984
Mathews 1 H Sec. 3	Water				2108	92	3073	2088	2942	5725	7005	4147	3709	3442	3277	4647	3002
	Cum. Water				34733	34557	37130	39218	42160	45845	52870	57017	60726	64220	67497	72144	75246
	Oil	[illegible]	5900	[illegible]	7458	2502	5055	6225	9362	9515	9852	9511	[illegible]	9852	8876	9528	9510
	Cum. Oil	100543	105363	[illegible]	124610	127132	132165	138380	147742	157257	167089	176600	186430	196282	205238	215066	224576
Mathews A 1 B Sec. 3	Water				476	161	321	615	1040	827	972	1421	[illegible]	[illegible]	[illegible]	517	2652
	Cum. Water				3069	3230	3551	4166	5206	6033	7005	8426	9578	10733	13672	14209	16891
	Oil	11129	7505	[illegible]	11457	2871	9635	7120	9362	9517	9507	9510	9817	9527	8876	9527	9510
	Cum. Oil	47628	41436	[illegible]	71553	74404	84039	91159	100521	110038	119545	128855	138672	148509	157385	167412	176922
Mathews A 2 J Sec. 3	Water							71	405	941	1034	1057	1092	1092	980	1028	827
	Cum. Water							—	564	1505	2539	3596	4688	5780	6766	7794	8621
	Oil	975	7558	[illegible]	11556	2870	7655	7119	9542	9516	9507	6855	8552	5835	5901	5258	3572
	Cum. Oil	—	8753	[illegible]	30379	33744	43394	50513	59865	69381	78688	85543	93995	99710	103671	[illegible]	111201
State BTA 1 D Sec. 2	Water				1045	253	1071	971	3421	1891	5053	13918	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Cum. Water				1111	1254	2445	3411	6537	15438	21181	35399	42515	[illegible]	[illegible]	71666	[illegible]
	Oil	10245	11062	[illegible]	10656	3373	9714	9344	9542	9515	9851	9510	9812	9827	8876	9827	9510
	Cum. Oil	237147	250719	[illegible]	[illegible]	276326	286090	295434	304976	314511	324142	333652	[illegible]	[illegible]	[illegible]	372[illegible]	[illegible]
State BTC 1 W Section 25	Oil	10489	11458	[illegible]	11240	2570	10071	9168	9562	9512	9852	9514	9615	[illegible]	[illegible]	[illegible]	[illegible]
	Cum. Oil	220144	231622	[illegible]	253911	256481	[illegible]	276025	285587	294819	304731	314245	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
State BTC 2 L Sec. 25	Oil	[illegible]	11488	[illegible]	11240	2870	10076	9168	9562	9511	9832	9573	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Cum. Oil	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	169519	[illegible]	188912	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	244442