



THE FRONTIER REFINING COMPANY

4040 EAST LOUISIANA AVENUE • DENVER 22, COLORADO • SKYLINE 6-1511

June 5, 1962

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

Reference is made to Docket No. 18-62 for regular hearing June 14, 1962, Case 1641. This is to advise that The Frontier Refining Company desires to continue the special rules and regulations for the Angels Peak-Gallup Oil Pool, San Juan County, New Mexico, and we see no reason for any change thereto.

Yours very truly,

E. B. Granville
Superintendent of
Drilling and Production

EBG:ak



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1962 APR 13 PM 1:22

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BOTTOM HOLE PRESSURES OF NEW WELLS
ANGELS PEAK GALLUP FIELD

Virgin Bottom Hole Pressure 1620 psig

Huerfano Unit No. 101 (NW/4 19-27-10)

Completion Date	1-12-61
Initial Potential	1000 MCFPD
GOR	34,722:1
Shut In Casing Pressure, 8 days	1130 psig
Calculated Bottom Hole Pressure	1315 psig
Pressure Loss Due to Offset Production	305 psi

Huerfano Unit No. 113 (NW/4 33-27-10)

Completion Date	1-25-61
Initial Potential	2127 MCFPD
GOR	76,511:1
Shut In Tubing Pressure, 7 days	1087 psig
Calculated Bottom Hole Pressure	1273 psig
Pressure Loss Due to Offset Production	347 psi

Huerfano Unit No. 116 (NW/4 11-26-10)

Completion Date	1-7-61
Initial Potential	272 MCFPD
GOR	34,871:1
Shut In Casing Pressure, 8 days	977 psig
Calculated Bottom Hole Pressure	1164 psig
Pressure Loss Due to Offset Production	456 psi

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
PAW Am EXHIBIT No. 2-A
CASE 1641

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*Ex-2 A,
Case 1641*

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Case 1041
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Ex. 2A.

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Case 1641
 Exhibit No. 2
 Witness _____

SUMMARY OF OIL & GAS PRODUCTION
 TOTAL ANGELS PEAK (GALLUP) FIELD
 (Gas Volumes @ 15.025 psia)

Year & Month	No. Prod. Wells	Total Wells	Oil Bbls.	Gas MCF	GOR Cu. ft. /Bbl.	Cumulative Production	
						Oil Bbls.	Gas MCF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>1958</u>							
Apr.	1	1		1,486			1,486
May	2	2		71,885			73,371
June	2	2		102,181			175,552
July	2	2		149,305			324,857
Aug.	2	3		123,516			448,373
Sept.	3	5		180,743			629,116
Oct	3	5	3,013	201,636	66,922	3,013	830,752
Nov.	5	5	1,506	305,986	203,178	4,519	1,136,738
Dec.	5	5	2,479	144,856	58,433	6,998	1,281,594
<u>1959</u>							
Jan.	4	8	2,471	197,571	79,955	9,469	1,479,165
Feb.	5	8	2,490	230,178	92,440	11,959	1,709,343
Mar.	8	10	6,835	307,703	45,018	18,794	2,017,046
Apr. *	9	10	1,309	73,422	56,090	20,103	2,090,468
May	11	11	6,864	151,467	22,067	26,967	2,241,935
June	12	12	8,711	233,792	26,839	35,678	2,475,727
July	12	13	11,104	236,065	21,259	46,782	2,711,792
Aug.	11	13	11,472	275,026	23,974	58,254	2,986,818
Sept.	12	14	9,029	308,827	34,204	67,283	3,295,645
Oct.	11	15	7,243	315,442	43,551	74,526	3,611,087
Nov.	14	16	9,441	277,656	29,409	83,967	3,888,743
Dec.	15	17	9,739	298,648	30,665	93,706	4,187,391
<u>1960</u>							
Jan.	15	19	9,754	279,965	28,702	103,460	4,467,356
Feb.	16	19	9,218	241,226	26,169	112,678	4,708,582
Mar.	18	19	10,823	234,301	21,648	123,501	4,942,883
Apr.	18	19	10,862	313,588	28,870	134,363	5,256,471
May	18	19	10,441	325,147	31,141	144,804	5,581,618
June	18	19	8,189	289,369	35,336	152,993	5,870,987
July	18	19	8,042	275,901	34,307	161,035	6,146,888
Aug.	18	19	8,285	331,219	39,987	169,320	6,478,107
Sept.	18	19	6,124	221,632	36,190	175,444	6,699,739
Oct.	18	19	7,177	394,122	54,914	182,621	7,093,861
Nov.	18	19	5,860	315,959	53,917	188,481	7,409,820
Dec.	18	19	5,892	280,312	47,575	194,373	7,690,132

* Pool reclassified from gas to oil effective April 1, 1959.

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Witness _____

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TOTAL ANGELS PEAK (GALLUP) FIELD
 (Gas Volumes @ 15.025 psia)

Year & Month	No. Prod. Wells	Total Wells	Oil Bbls.	Gas MCF	GOR Cu. ft. / Bbl.	Cumulative Production	
						Oil Bbls.	Gas MCF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>1961</u>							
Jan.	17	21	6,035	224,444	37,190	200,408	7,914,576
Feb.	20	21	5,138	266,825	51,931	205,546	8,181,401
Mar.	20	21	7,543	434,066	57,545	213,089	8,615,467
Apr.	20	21	6,235	386,347	61,964	219,324	9,001,814
May	20	21	7,046	396,998	56,343	226,370	9,398,812
June	19	21	6,416	418,404	65,212	232,786	9,817,216
July	20	21	7,691	519,895	67,597	240,477	10,337,111
Aug.	20	21	6,669	459,334	68,875	247,146	10,796,445
Sept.	20	21	3,989	253,694	63,598	251,135	11,050,139
Oct.	20	21	5,667	382,289	67,458	256,802	11,432,428
Nov.	20	21	5,041	361,677	71,747	261,843	11,794,105
Dec.	20	21	4,335	385,404	88,905	266,178	12,179,509
<u>1962</u>							
Jan.	20	22	5,328	358,644	67,313	271,478	12,538,153
Feb.	19	22	4,545	283,767	62,434	276,023	12,821,920
Mar.	20	22	5,961	401,758	67,397	281,984	13,223,678

ANGELS PEAK - GALLUP OIL POOL
GAS-OIL RATIO PERFORMANCE

1641
36.3

Operator	July 1960	October 1960	January 1961	April 1961	July 1961	October 1961	January 1962	April 1962
El Paso Natural Gas Company								
Huertano #92	106, 976	86, 897	81, 944	84, 200	102, 326	120, 000	89, 747	99, 444
Huertano #99	133, 837	134, 286	188, 194	151, 676	229, 700	155, 069	152, 522	110, 923
Huertano #101				53, 445	63, 266	50, 690	77, 404	66, 452
Huertano #103	116, 962	98, 734	95, 833	146, 279	104, 400	83, 960	103, 889	132, 273
Huertano #105	21, 179 (78)	24, 271 (79)	20, 844 (88)	18, 717 (88)	22, 079 (76)	21, 299 (79)	20, 355 (79)	25, 033 (61)
Huertano #106	127, 182	92, 619	142, 143	120, 102	159, 214	231, 429	240, 571	172, 857
Huertano #107	11, 617 (71)	9, 344 (84)	9, 638 (47)	6, 901 (84)	12, 930 (61)	16, 026 (31)	12, 318 (31)	20, 250 (24)
Huertano #108	54, 460	68, 793	56, 650	97, 019	90, 577	112, 593	125, 432	108, 817
Huertano #109	95, 086	118, 148	117, 734	114, 316	163, 871	161, 075	139, 462	280, 652
Huertano #110	4, 108 (19)	6, 357 (16)	5, 750 (16)	11, 126 (16)	11, 525 (12)	14, 356 (11)	16, 400 (10)	13, 700 (10)
Huertano #111		136, 897	58, 214	58, 966	51, 818	81, 364	154, 286	278, 571
Huertano #113				116, 294	150, 733	174, 310	260, 247	211, 075
Huertano #116				21, 595 (10)	66, 206 (3)	57, 222	92, 759	55, 349
Pan American Petroleum Corp.								
Frost B #1	23, 103 (6)	43, 027 (4)	34, 027	181, 850	141, 368 (1)	210, 000	210, 000	210, 000
McAdams B #1	12, 428 (17)	12, 133 (17)	6, 745 (31)	12, 930 (19)	16, 635 (15)	18, 258 (14)	2, 492 (11)	5, 696 (14)
McAdams B #2	3, 477 (39)	4, 063 (32)	5, 640 (32)	7, 428 (27)	9, 219 (19)	11, 892 (18)	7, 457 (16)	3, 395 (9)
A. N. Brown								
McAdams Nos. 1 & 4	83, 348	84, 806	174, 536	117, 236	89, 674	104, 864	119, 333	130, 416
McAdams #2	54, 909	110, 068	156, 187	161, 353	126, 208	115, 338	133, 333	120, 000
McAdams #3	13, 478 (102)	10, 310 (57)	14, 576 (48)	28, 928 (28)	26, 947 (23)	26, 947 (23)	26, 915 (20)	36, 786 (14)
McAdams #5	18, 320 (14)	12, 237 (8)	Plugged and Abandoned					

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TOTAL ANGELS PEAK (GALLUP) FIELD

(Gas Volumes @ 15.025 psia)

<u>Year & Month</u>	<u>No. Prod. Wells</u>	<u>Total Wells</u>	<u>Oil Bbls.</u>	<u>Gas MCF</u>	<u>GOR Cu. ft. /Bbl.</u>	<u>Cumulative Production Oil Bbls.</u>	<u>Gas MCF</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>1958</u>							
Apr.	1	1		1,486			1,486
May	2	2		71,885			73,371
June	2	2		102,181			175,552
July	2	2		149,305			324,857
Aug.	2	3		123,516			448,373
Sept.	3	5		180,743			629,116
Oct	3	5	3,013	201,636	66,922	3,013	830,752
Nov.	5	5	1,506	305,986	203,178	4,519	1,136,738
Dec.	5	5	2,479	144,856	58,433	6,998	1,281,594
<u>1959</u>							
Jan.	4	8	2,471	197,571	79,955	9,469	1,479,165
Feb.	5	8	2,490	230,178	92,440	11,959	1,709,343
Mar.	8	10	6,835	307,703	45,018	18,794	2,017,046
Apr. *	9	10	1,309	73,422	56,090	20,103	2,090,468
May	11	11	6,864	151,467	22,067	26,967	2,241,935
June	12	12	8,711	233,792	26,839	35,678	2,475,727
July	12	13	11,104	236,065	21,259	46,782	2,711,792
Aug.	11	13	11,472	275,026	23,974	58,254	2,986,818
Sept.	12	14	9,029	308,827	34,204	67,283	3,295,645
Oct.	11	15	7,243	315,442	43,551	74,526	3,611,087
Nov.	14	16	9,441	277,656	29,409	83,967	3,888,743
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ANGELS PEAK GALLUP FIELD

Virgin Bottom Hole Pressure 1620 psig

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Huertano #101				53, 445✓	63, 266	50, 690	77, 404	66, 452
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Huertano #106	127, 182	92, 619	142, 143	120, 102	159, 214	231, 429	240, 571	172, 857
Huertano #107	11, 617 (71)	9, 344 (84)	9, 638 (47)	6, 901 (84)	12, 930 (61)	16, 026 (31)	12, 318 (31)	20, 250 (24)
Huertano #108	54, 460	68, 793	56, 650	97, 019	90, 577	112, 593	125, 432	108, 817
Huertano #109	95, 086	118, 148	117, 734	114, 316	163, 871	161, 075	139, 462	280, 652
Huertano #110	4, 108 (19)	6, 357 (16)	5, 750 (16)	11, 126 (16)	11, 525 (12)	14, 356 (11)	16, 400 (10)	13, 700 (10)
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McAdams #3	13, 478 (102)	10, 310 (57)	14, 576 (48)	28, 928 (28)	26, 947 (23)	26, 947 (23)	26, 915 (20)	36, 786 (14)
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Feb.	16	19	9,218	241,226	26,169	112,678	4,708,582
Mar.	18	19	10,823	234,301	21,648	123,501	4,942,883
Apr.	18	19	10,862	313,588	28,870	134,363	5,256,471
May	18	19	10,441	325,147	31,141	144,804	5,581,618
June	18	19	8,189	289,369	35,336	152,993	5,870,987
July	18	19	8,042	275,901	34,307	161,035	6,146,888
Aug.	18	19	8,285	331,219	39,987	169,320	6,478,107
Sept.	18	19	6,124	221,632	36,190	175,444	6,699,739
Oct.	18	19	7,177	394,122	54,914	182,621	7,093,861
Nov.	18	19	5,860	315,959	53,917	188,481	7,409,820
Dec.	18	19	5,892	280,312	47,575	194,373	7,690,132

* Pool reclassified from gas to oil effective April 1, 1959.

Case _____

Exhibit No. _____

Witness _____

SUMMARY OF OIL & GAS PRODUCTION
TOTAL ANGELS PEAK (GALLUP) FIELD
 (Gas Volumes @ 15.025 psia)

Year & Month	No. Prod. Wells	Total Wells	Oil Bbls.	Gas MCF	GOR Cu. ft. / Bbl.	Cumulative Production	
						Oil Bbls.	Gas MCF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>1961</u>							
Jan.	17	21	6,035	224,444	37,190	200,408	7,914,576
Feb.	20	21	5,138	266,825	51,931	205,546	8,181,401
Mar.	20	21	7,543	434,066	57,545	213,089	8,615,467
Apr.	20	21	6,235	386,347	61,964	219,324	9,001,814
May	20	21	7,046	396,998	56,343	226,370	9,398,812
June	19	21	6,416	418,404	65,212	232,786	9,817,216
July	20	21	7,691	519,895	67,597	240,477	10,337,111
Aug.	20	21	6,669	459,334	68,875	247,146	10,796,445
Sept.	20	21	3,989	253,694	63,598	251,135	11,050,139
Oct.	20	21	5,667	382,289	67,458	256,802	11,432,428
Nov.	20	21	5,041	361,677	71,747	261,843	11,794,105
Dec.	20	21	4,335	385,404	88,905	266,178	12,179,509
<u>1962</u>							
Jan.	20	22	5,328	358,644	67,313	271,478	12,538,153
Feb.	19	22	4,545	283,767	62,434	276,023	12,821,920
Mar.	20	22	5,961	401,758	67,397	281,984	13,223,678

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ANGELS PEAK - GALLUP OIL POOL
GAS-OIL RATIO PERFORMANCE

Operator	July 1960	October 1960	January 1961	April 1961	July 1961	October 1961	January 1962	April 1962
El Paso Natural Gas Company								
Huerfano #92	106, 976	86, 897	81, 944	84, 200	102, 326	120, 000	89, 747	99, 444
Huerfano #99	133, 837	134, 286	188, 194	151, 676	229, 700	155, 069	152, 522	110, 923
Huerfano #101				53, 445	63, 266	50, 690	77, 404	66, 452
Huerfano #103	116, 962	98, 734	95, 833	146, 279	104, 400	83, 960	103, 889	132, 273
Huerfano #105	21, 179 (78)	24, 271 (79)	20, 844 (88)	18, 717 (88)	22, 079 (76)	21, 299 (79)	20, 355 (79)	25, 033 (61)
Huerfano #106	127, 182	92, 619	142, 143	120, 102	159, 214	231, 429	240, 571	172, 857
Huerfano #107	11, 617 (71)	9, 344 (84)	9, 638 (47)	6, 901 (84)	12, 930 (61)	16, 026 (31)	12, 318 (31)	20, 250 (24)
Huerfano #108	54, 460	68, 793	56, 650	97, 019	90, 577	112, 593	125, 432	108, 817
Huerfano #109	95, 086	118, 148	117, 734	114, 316	163, 871	161, 075	139, 462	280, 652
Huerfano #110	4, 108 (19)	6, 357 (16)	5, 750 (16)	11, 126 (16)	11, 525 (12)	14, 356 (11)	16, 400 (10)	13, 700 (10)
Huerfano #111		136, 897	58, 214	58, 966	51, 818	81, 364	154, 286	278, 571
Huerfano #113				116, 294	150, 733	174, 310	260, 247	211, 075
Huerfano #116				21, 595 (10)	66, 206 (3)	57, 222	92, 759	55, 349
Pan American Petroleum Corp.								
Frost B #1	23, 103 (6)	43, 027 (4)	34, 027	181, 850	141, 368 (1)	210, 000	210, 000	210, 000
McAdams B #1	12, 428 (17)	12, 133 (17)	6, 745 (31)	12, 930 (19)	16, 635 (15)	18, 258 (14)	2, 492 (11)	5, 696 (14)
McAdams B #2	3, 477 (39)	4, 063 (32)	5, 640 (32)	7, 428 (27)	9, 219 (19)	11, 892 (18)	7, 457 (16)	3, 395 (9)
A. N. Brown								
McAdams Nos. 1 & 4	83, 348	84, 806	174, 536	117, 236	89, 674	104, 864	119, 333	130, 416
McAdams #2	54, 909	110, 068	156, 187	161, 353	126, 208	115, 338	133, 333	120, 000
McAdams #3	13, 478 (102)	10, 310 (57)	14, 576 (48)	28, 928 (28)	26, 947 (23)	26, 947 (23)	26, 915 (20)	36, 786 (14)
McAdams #5	18, 320 (14)	12, 237 (8)	Plugged and Abandoned					

PAN AM 2A

BOTTOM HOLE PRESSURES OF NEW WELLS
ANGELS PEAK GALLUP FIELD

Virgin Bottom Hole Pressure 1620 psig

Huerfano Unit No. 101 (NW/4 19-27-10)

Completion Date	1-12-61
Initial Potential	1000 MCFPD
GOR	34,722:1
Shut In Casing Pressure, 8 days	1130 psig
Calculated Bottom Hole Pressure	1315 psig
Pressure Loss Due to Offset Production	305 psi

Huerfano Unit No. 113 (NW/4 33-27-10)

Completion Date	1-25-61
Initial Potential	2127 MCFPD
GOR	76,511:1
Shut In Tubing Pressure, 7 days	1087 psig
Calculated Bottom Hole Pressure	1273 psig
Pressure Loss Due to Offset Production	347 psi

Huerfano Unit No. 116 (NW/4 11-26-10)

Completion Date	1-7-61
Initial Potential	272 MCFPD
GOR	34,871:1
Shut In Casing Pressure, 8 days	977 psig
Calculated Bottom Hole Pressure	1164 psig
Pressure Loss Due to Offset Production	456 psi

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 2
CASE 1641

Case _____

Exhibit No. _____

Witness _____

SUMMARY OF OIL & GAS PRODUCTION
TOTAL ANGELS PEAK (GALLUP) FIELD
(Gas Volumes @ 15.025 psia)

Year & Month	No. Prod. Wells	Total Wells	Oil Bbls.	Gas MCF	GOR Cu. ft. /Bbl.	Cumulative Production Oil Bbls.	Gas MCF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>1958</u>							
Apr.	1	1		1,486			1,486
May	2	2		71,885			73,371
June	2	2		102,181			175,552
July	2	2		149,305			324,857
Aug.	2	3		123,516			448,373
Sept.	3	5		180,743			629,116
Oct	3	5	3,013	201,636	66,922	3,013	830,752
Nov.	5	5	1,506	305,986	203,178	4,519	1,136,738
Dec.	5	5	2,479	144,856	58,433	6,998	1,281,594
<u>1959</u>							
Jan.	4	8	2,471	197,571	79,955	9,469	1,479,165
Feb.	5	8	2,490	230,178	92,440	11,959	1,709,343
Mar.	8	10	6,835	307,703	45,018	18,794	2,017,046
Apr. *	9	10	1,309	73,422	56,090	20,103	2,090,468
May	11	11	6,864	151,467	22,067	26,967	2,241,935
June	12	12	8,711	233,792	26,839	35,678	2,475,727
July	12	13	11,104	236,065	21,259	46,782	2,711,792
Aug.	11	13	11,472	275,026	23,974	58,254	2,986,818
Sept.	12	14	9,029	308,827	34,204	67,283	3,295,645
Oct.	11	15	7,243	315,442	43,551	74,526	3,611,087
Nov.	14	16	9,441	277,656	29,409	83,967	3,888,743
Dec.	15	17	9,739	298,648	30,665	93,706	4,187,391
<u>1960</u>							
Jan.	15	19	9,754	279,965	28,702	103,460	4,467,356
Feb.	16	19	9,218	241,226	26,169	112,678	4,708,582
Mar.	18	19	10,823	234,301	21,648	123,501	4,942,883
Apr.	18	19	10,862	313,588	28,870	134,363	5,256,471
May	18	19	10,441	325,147	31,141	144,804	5,581,618
June	18	19	8,189	289,369	35,336	152,993	5,870,987
July	18	19	8,042	275,901	34,307	161,035	6,146,888
Aug.	18	19	8,285	331,219	39,987	169,320	6,478,107
Sept.	18	19	6,124	221,632	36,190	175,444	6,699,739
Oct.	18	19	7,177	394,122	54,914	182,621	7,093,861
Nov.	18	19	5,860	315,959	53,917	188,481	7,409,820
Dec.	18	19	5,892	280,312	47,575	194,373	7,690,132

* Pool reclassified from gas to oil effective April 1, 1959.

Case _____

Exhibit No. _____

Witness _____

SUMMARY OF OIL & GAS PRODUCTION
TOTAL ANGELS PEAK (GALLUP) FIELD
 (Gas Volumes @ 15.025 psia)

Year & Month	No. Prod. Wells	Total Wells	Oil Bbls.	Gas MCF	GOR Cu. ft. / Bbl.	Cumulative Production	
						Oil Bbls.	Gas MCF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>1961</u>							
Jan.	17	21	6,035	224,444	37,190	200,408	7,914,576
Feb.	20	21	5,138	266,825	51,931	205,546	8,181,401
Mar.	20	21	7,543	434,066	57,545	213,089	8,615,467
Apr.	20	21	6,235	386,347	61,964	219,324	9,001,814
May	20	21	7,046	396,998	56,343	226,370	9,398,812
June	19	21	6,416	418,404	65,212	232,786	9,817,216
July	20	21	7,691	519,895	67,597	240,477	10,337,111
Aug.	20	21	6,669	459,334	68,875	247,146	10,796,445
Sept.	20	21	3,989	253,694	63,598	251,135	11,050,139
Oct.	20	21	5,667	382,289	67,458	256,802	11,432,428
Nov.	20	21	5,041	361,677	71,747	261,843	11,794,105
Dec.	20	21	4,335	385,404	88,905	266,178	12,179,509
<u>1962</u>							
Jan.	20	22	5,328	358,644	67,313	271,478	12,538,153
Feb.	19	22	4,545	283,767	62,434	276,023	12,821,920
Mar.	20	22	5,961	401,758	67,397	281,984	13,223,678

ANGELS PEAK - GALLUP OIL POOL
GAS-OIL RATIO PERFORMANCE

EPN

Operator Well Name & Number	July 1960	October 1960	January 1961	April 1961	July 1961	October 1961	January 1962	April 1962
El Paso Natural Gas Company								
Huerfano #92	106, 976	86, 897	81, 944	84, 200	102, 326	120, 000	89, 747	99, 444
Huerfano #99	133, 837	134, 286	188, 194	151, 676	229, 700	155, 069	152, 522	110, 923
Huerfano #101				53, 445	63, 266	50, 690	77, 404	66, 452
Huerfano #103	116, 962	98, 734	95, 833	146, 279	104, 400	83, 960	103, 889	132, 273
Huerfano #105	21, 179 (78)	24, 271 (79)	20, 844 (88)	18, 717 (88)	22, 079 (76)	21, 299 (79)	20, 355 (79)	25, 033 (61)
Huerfano #106	127, 182	92, 619	142, 143	120, 102	159, 214	231, 429	240, 571	172, 857
Huerfano #107	11, 617 (71)	9, 344 (84)	9, 638 (47)	6, 901 (84)	12, 930 (61)	16, 026 (31)	12, 318 (31)	20, 250 (24)
Huerfano #108	54, 460	68, 793	56, 650	97, 019	90, 577	112, 593	125, 432	108, 817
Huerfano #109	95, 086	118, 148	117, 734	114, 316	163, 871	161, 075	139, 462	280, 652
Huerfano #110	4, 108 (19)	6, 357 (16)	5, 750 (16)	11, 126 (16)	11, 525 (12)	14, 356 (11)	16, 400 (10)	13, 700 (10)
Huerfano #111		136, 897	58, 214	58, 966	51, 818	81, 364	154, 286	278, 571
Huerfano #113				116, 294	150, 733	174, 310	260, 247	211, 075
Huerfano #116				21, 595 (10)	66, 206 (3)	57, 222	92, 759	55, 349
Pan American Petroleum Corp.								
Frost B #1	23, 103 (6)	43, 027 (4)	34, 027	181, 850	141, 368 (1)	210, 000	210, 000	210, 000
McAdams B #1	12, 428 (17)	12, 133 (17)	6, 745 (31)	12, 930 (19)	16, 635 (15)	18, 258 (14)	2, 492 (11)	5, 696 (14)
McAdams B #2	3, 477 (39)	4, 063 (32)	5, 640 (32)	7, 428 (27)	9, 219 (19)	11, 892 (18)	7, 457 (16)	3, 395 (9)
A. N. Brown								
McAdams Nos. 1 & 4	83, 348	84, 806	174, 536	117, 236	89, 674	104, 864	119, 333	130, 416
McAdams #2	54, 909	110, 068	156, 187	161, 353	126, 208	115, 338	133, 333	120, 000
McAdams #3	13, 478 (102)	10, 310 (57)	14, 576 (48)	28, 928 (28)	26, 947 (23)	26, 947 (23)	26, 915 (20)	36, 786 (14)
McAdams #5	18, 320 (14)	12, 237 (8)	Plugged and Abandoned					

Case _____
 Exhibit No. _____
 Witness _____

SUMMARY OF OIL & GAS PRODUCTION
TOTAL ANGELS PEAK (GALLUP) FIELD
 (Gas Volumes @ 15.025 psia)

Year & Month	No. Prod. Wells	Total Wells	Oil Bbls.	Gas MCF	GOR Cu. ft. /Bbl.	Cumulative Production	
						Oil Bbls.	Gas MCF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1958							
Apr.	1	1		1,486			1,486
May	2	2		71,885			73,371
June	2	2		102,181			175,552
July	2	2		149,305			324,857
Aug.	2	3		123,516			448,373
Sept.	3	5		180,743			629,116
Oct	3	5	3,013	201,636	66,922	3,013	830,752
Nov.	5	5	1,506	305,986	203,178	4,519	1,136,738
Dec.	5	5	2,479	144,856	58,433	6,998	1,281,594
1959							
Jan.	4	8	2,471	197,571	79,955	9,469	1,479,165
Feb.	5	8	2,490	230,178	92,440	11,959	1,709,343
Mar.	8	10	6,835	307,703	45,018	18,794	2,017,046
Apr. *	9	10	1,309	73,422	56,090	20,103	2,090,468
May	11	11	6,864	151,467	22,067	26,967	2,241,935
June	12	12	8,711	233,792	26,839	35,678	2,475,727
July	12	13	11,104	236,065	21,259	46,782	2,711,792
Aug.	11	13	11,472	275,026	23,974	58,254	2,986,818
Sept.	12	14	9,029	308,827	34,204	67,283	3,295,645
Oct.	11	15	7,243	315,442	43,551	74,526	3,611,087
Nov.	14	16	9,441	277,656	29,409	83,967	3,888,743
Dec.	15	17	9,739	298,648	30,665	93,706	4,187,391
1960							
Jan.	15	19	9,754	279,965	28,702	103,460	4,467,356
Feb.	16	19	9,218	241,226	26,169	112,678	4,708,582
Mar.	18	19	10,823	234,301	21,648	123,501	4,942,883
Apr.	18	19	10,862	313,588	28,870	134,363	5,256,471
May	18	19	10,441	325,147	31,141	144,804	5,581,618
June	18	19	8,189	289,369	35,336	152,993	5,870,987
July	18	19	8,042	275,901	34,307	161,035	6,146,888
Aug.	18	19	8,285	331,219	39,987	169,320	6,478,107
Sept.	18	19	6,124	221,632	36,190	175,444	6,699,739
Oct.	18	19	7,177	394,122	54,914	182,621	7,093,861
Nov.	18	19	5,860	315,959	53,917	188,481	7,409,820
Dec.	18	19	5,892	280,312	47,575	194,373	7,690,132

* Pool reclassified from gas to oil effective April 1, 1959.

Case _____
 Exhibit No. _____
 Witness _____

SUMMARY OF OIL & GAS PRODUCTION
TOTAL ANGELS PEAK (GALLUP) FIELD
 (Gas Volumes @ 15.025 psia)

Year & Month	No. Prod. Wells	Total Wells	Oil Bbls.	Gas MCF	GOR Cu. ft. / Bbl.	Cumulative Production	
						Oil Bbls.	Gas MCF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>1961</u>							
Jan.	17	21	6,035	224,444	37,190	200,408	7,914,576
Feb.	20	21	5,138	266,825	51,931	205,546	8,181,401
Mar.	20	21	7,543	434,066	57,545	213,089	8,615,467
Apr.	20	21	6,235	386,347	61,964	219,324	9,001,814
May	20	21	7,046	396,998	56,343	226,370	9,398,812
June	19	21	6,416	418,404	65,212	232,786	9,817,216
July	20	21	7,691	519,895	67,597	240,477	10,337,111
Aug.	20	21	6,669	459,334	68,875	247,146	10,796,445
Sept.	20	21	3,989	253,694	63,598	251,135	11,050,139
Oct.	20	21	5,667	382,289	67,458	256,802	11,432,428
Nov.	20	21	5,041	361,677	71,747	261,843	11,794,105
Dec.	20	21	4,335	385,404	88,905	266,178	12,179,509
<u>1962</u>							
Jan.	20	22	5,328	358,644	67,313	271,478	12,538,153
Feb.	19	22	4,545	283,767	62,434	276,023	12,821,920
Mar.	20	22	5,961	401,758	67,397	281,984	13,223,678

ANGELS PEAK - GALLUP OIL POOL
GAS-OIL RATIO PERFORMANCE

Operator Well Name & Number	July 1960	October 1960	January 1961	April 1961	July 1961	October 1961	January 1962	April 1962
El Paso Natural Gas Company								
Huertano #92	106, 976	86, 897	81, 944	84, 200	102, 326	120, 000	89, 747	99, 444
Huertano #99	133, 837	134, 286	188, 194	151, 676	229, 700	155, 069	152, 522	110, 923
Huertano #101				53, 445	63, 266	50, 690	77, 404	66, 452
Huertano #103	116, 962	98, 734	95, 833	146, 279	104, 400	83, 960	103, 889	132, 273
Huertano #105	21, 179 (78)	24, 271 (79)	20, 844 (88)	18, 717 (88)	22, 079 (76)	21, 299 (79)	20, 355 (79)	25, 033 (61)
Huertano #106	127, 182	92, 619	142, 143	120, 102	159, 214	231, 429	240, 571	172, 857
Huertano #107	11, 617 (71)	9, 344 (84)	9, 638 (47)	6, 901 (84)	12, 930 (61)	16, 026 (31)	12, 318 (31)	20, 250 (24)
Huertano #108	54, 460	68, 793	56, 650	97, 019	90, 577	112, 593	125, 432	108, 817
Huertano #109	95, 086	118, 148	117, 734	114, 316	163, 871	161, 075	139, 462	280, 652
Huertano #110	4, 108 (19)	6, 357 (16)	5, 750 (16)	11, 126 (16)	11, 525 (12)	14, 356 (11)	16, 400 (10)	13, 700 (10)
Huertano #111		136, 897	58, 214	58, 966	51, 818	81, 364	154, 286	278, 571
Huertano #113				116, 294	150, 733	174, 310	260, 247	211, 075
Huertano #116				21, 595 (10)	66, 206 (3)	57, 222	92, 759	55, 349
Pan American Petroleum Corp.								
Frost B #1	23, 103 (6)	43, 027 (4)	34, 027	181, 850	141, 368 (1)	210, 000	210, 000	210, 000
McAdams B #1	12, 428 (17)	12, 133 (17)	6, 745 (31)	12, 930 (19)	16, 635 (15)	18, 258 (14)	2, 492 (11)	5, 696 (14)
McAdams B #2	3, 477 (39)	4, 063 (32)	5, 640 (32)	7, 428 (27)	9, 219 (19)	11, 892 (18)	7, 457 (16)	3, 395 (9)
A. N. Brown								
McAdams Nos. 1 & 4	83, 348	84, 806	174, 536	117, 236	89, 674	104, 864	119, 333	130, 416
McAdams #2	54, 909	110, 068	156, 187	161, 353	126, 208	115, 338	133, 333	120, 000
McAdams #3	13, 478 (102)	10, 310 (57)	14, 576 (48)	28, 928 (28)	26, 947 (23)	26, 947 (23)	26, 915 (20)	36, 786 (14)
McAdams #5	18, 320 (14)	12, 237 (8)	Plugged and Abandoned					

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

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LARGE FORMAT
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1625

SURFACE PRESSURE DATA
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Date of</u> <u>Press. Meas.</u>	<u>Shut-In</u> <u>Time</u> <u>- Days</u>	<u>Initial</u> <u>Shut-In</u> <u>Pressure</u> <u>(PSIG)</u>	<u>Distance</u> <u>To Nearest</u> <u>Producing</u> <u>Well - Ft.</u>	<u>Pressure</u> <u>Draw</u> <u>Down</u> <u>PSIG</u>	<u>Minimum</u> <u>Drainage</u> <u>Area</u> <u>Acres</u>
W. R. Weaver						
McAdams No. 1	Apr. 29, 1958	7	1356	—	—	—
El Paso Natural Gas Co.						
Huerfano Unit 92	July 3, 1958	7	1325	15,500	31	17,300
Huerfano Unit 99	Aug. 19, 1958	7	1269	3,350	87	810
W. R. Weaver						
McAdams No. 4	Aug. 27, 1958	7	1081	2,550	275	480
El Paso Natural Gas Co.						
Huerfano Unit 103	Jan. 17, 1959	9	1088	1,900	268	260

solig gas
Guacacipoma
 30% more recovery w/ gas cap
 15% more on 2000 to 1 than 6000
 gas cap expansion

6000
 2000
 15
 1356
 1081
 275
 3
 148
 592
 2000
 19842000

1356
 1325
 31

SURFACE PRESSURE DATA
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

*Initial Pressure = 1630 psi
Pressure = 1625 psi
1325
305 psi
ΔP =*

<u>Operator</u> <u>Lease & Well</u>	<u>Date of</u> <u>Press. Meas.</u>	<u>Shut-In</u> <u>Time</u> <u>- Days</u>	<u>Initial</u> <u>Shut-In</u> <u>Pressure</u> <u>(PSIG)</u>	<u>Distance</u> <u>To Nearest</u> <u>Producing</u> <u>Well - Ft.</u>	<u>Pressure</u> <u>Draw</u> <u>Down</u> <u>PSIG</u>	<u>Minimum</u> <u>Drainage</u> <u>Area</u> <u>Acres</u>
W. R. Weaver						
McAdams No. 1	Apr. 29, 1958	7	1356	—	—	—
El Paso Natural Gas Co.						
Huerfano Unit 92	July 3, 1958	7	1325	15,500	31	17,300
Huerfano Unit 99	Aug. 19, 1958	7	1269	3,350	87	810
W. R. Weaver						
McAdams No. 4	Aug. 27, 1958	7	1081	2,550	275	480
El Paso Natural Gas Co.						
Huerfano Unit 103	Jan. 17, 1959	9	1088	1,900	268	260

*1325
31
1356*

*1356
1269
87*

Ex. 6

SURFACE PRESSURE DATA
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Date of</u> <u>Press. Meas.</u>	<u>Shut-In</u> <u>Time</u> <u>- Days</u>	<u>Initial</u> <u>Shut-In</u> <u>Pressure</u> <u>(PSIG)</u>	<u>Distance</u> <u>To Nearest</u> <u>Producing</u> <u>Well - Ft.</u>	<u>Pressure</u> <u>Drop</u> <u>Down</u> <u>PSIG</u>	<u>Minimum</u> <u>Drainage</u> <u>Area</u> <u>Acres</u>
W. R. Weaver						
McAdams No. 1	Apr. 29, 1958	7	1356	—	—	—
El Paso Natural Gas Co.						
Huerfano Unit 92	July 3, 1958	7	1325	15,500	31	17,300
Huerfano Unit 99	Aug. 19, 1958	7	1269	3,250	87	810
W. R. Weaver						
McAdams No. 4	Aug. 27, 1958	7	1061	2,550	275	480
El Paso Natural Gas Co.						
Huerfano Unit 103	Jan. 17, 1959	9	1088	1,700	268	260

1041

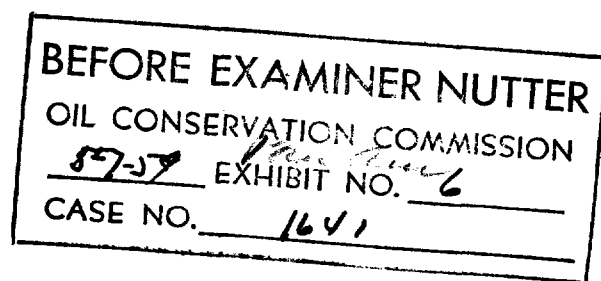
GAS-OIL RATIO TEST
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Test Date</u>	<u>Oil Prod.</u> <u>BOPD</u>	<u>GOR</u> <u>Cu. Ft./Bbl.</u>
W. R. Weaver			
McAdams No. 1	3-28-59	23	88,550
McAdams No. 2	3-28-59	28	120,930
McAdams No. 3	3-28-59	104	5,221
McAdams No. 4	3-28-59	28	116,636
El Paso Natural Gas			
Huerfano Unit No. 99	3-26-59	43	55,506
Huerfano Unit No. 103	3-15-59	23	98,947
Huerfano Unit No. 105	3-28-59	87	11,210
Huerfano Unit No. 107	3-29-59	290	2,573
Huerfano Unit No. 92	4-11-59	8	47,375
Pan American Petroleum Corp.			
McAdams "B" No. 1	3-8-59	43	2,675

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
5-7-59 EXHIBIT NO. 7
CASE NO. 1641

SURFACE PRESSURE DATA
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Date of</u> <u>Press. Meas.</u>	<u>Shut-In</u> <u>Time</u> <u>- Days</u>	<u>Initial</u> <u>Shut-In</u> <u>Pressure</u> <u>(PSIG)</u>	<u>Distance</u> <u>To Nearest</u> <u>Producing</u> <u>Well - Ft.</u>	<u>Pressure</u> <u>Draw</u> <u>Down</u> <u>PSIG</u>	<u>Minimum</u> <u>Drainage</u> <u>Area</u> <u>Acres</u>
W. R. Weaver						
McAdams No. 1	Apr. 29, 1958	7	1356	--	--	--
El Paso Natural Gas Co.						
Huerfano Unit 92	July 3, 1958	7	1325	15,500	31	17,300
Huerfano Unit 99	Aug. 19, 1958	7	1269	3,350	87	810
W. R. Weaver						
McAdams No. 4	Aug. 27, 1958	7	1081	2,550	275	480
El Paso Natural Gas Co.						
Huerfano Unit 103	Jan. 17, 1959	9	1088	1,900	268	260



SURFACE PRESSURE DATA
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Shut-In</u> <u>Surface</u> <u>Pressure</u> <u>PSIG</u>	<u>Shut-In</u> <u>Time</u> <u>- Days</u>	<u>Date of</u> <u>Shut-In</u> <u>Pressure</u>	<u>Type Test</u>	<u>Date of</u> <u>First</u> <u>Prod.</u> <u>(NMOGEC)</u>	<u>Cum. Prod.</u> <u>To Test</u> <u>Date-MCF</u> <u>(NMOGEC)</u>
W. R. Weaver McAdams No. 1	1310		March, 1958	(Rep. on USGS Final Log)	Apr. 1958	0
	1356	7	Apr. 29, 1958	Del. Test		1,486
	1090	7	Dec. 6, 1958	Del. Test		350,903
McAdams No. 2	1310		May, 1958	(Rep. on USGS Final Log)	May, 1958	0
	1187	7	Aug. 20, 1958	Del. Test		169,847
	1094	7	Dec. 6, 1958	Del. Test		354,231
McAdams No. 3	757	7	Oct. 23, 1958	Pkr. leakage	Nov. 1958	0
McAdams No. 4	1081	7	Aug. 27, 1958	Pkr. leakage	Sept. 1958	0
	1068	7	Aug. 30, 1958	Del. Test		0
	976	7	Dec. 22, 1958	Del. Test		475,182
El Paso Natural Gas Co. Huerfano Unit 92	1325	7	July 3, 1958	Pkr. leakage		0
	1289		Aug. 1958	(Rep. on USGS Final Log)		0
Huerfano Unit 99	1269	7	Aug. 19, 1958	Open Flw Test	Dec. 1958	0
Huerfano Unit 103	1088	9	Jan. 17, 1959	Open Flw Test		0

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

5-7-59 *Per Am* EXHIBIT NO. 4

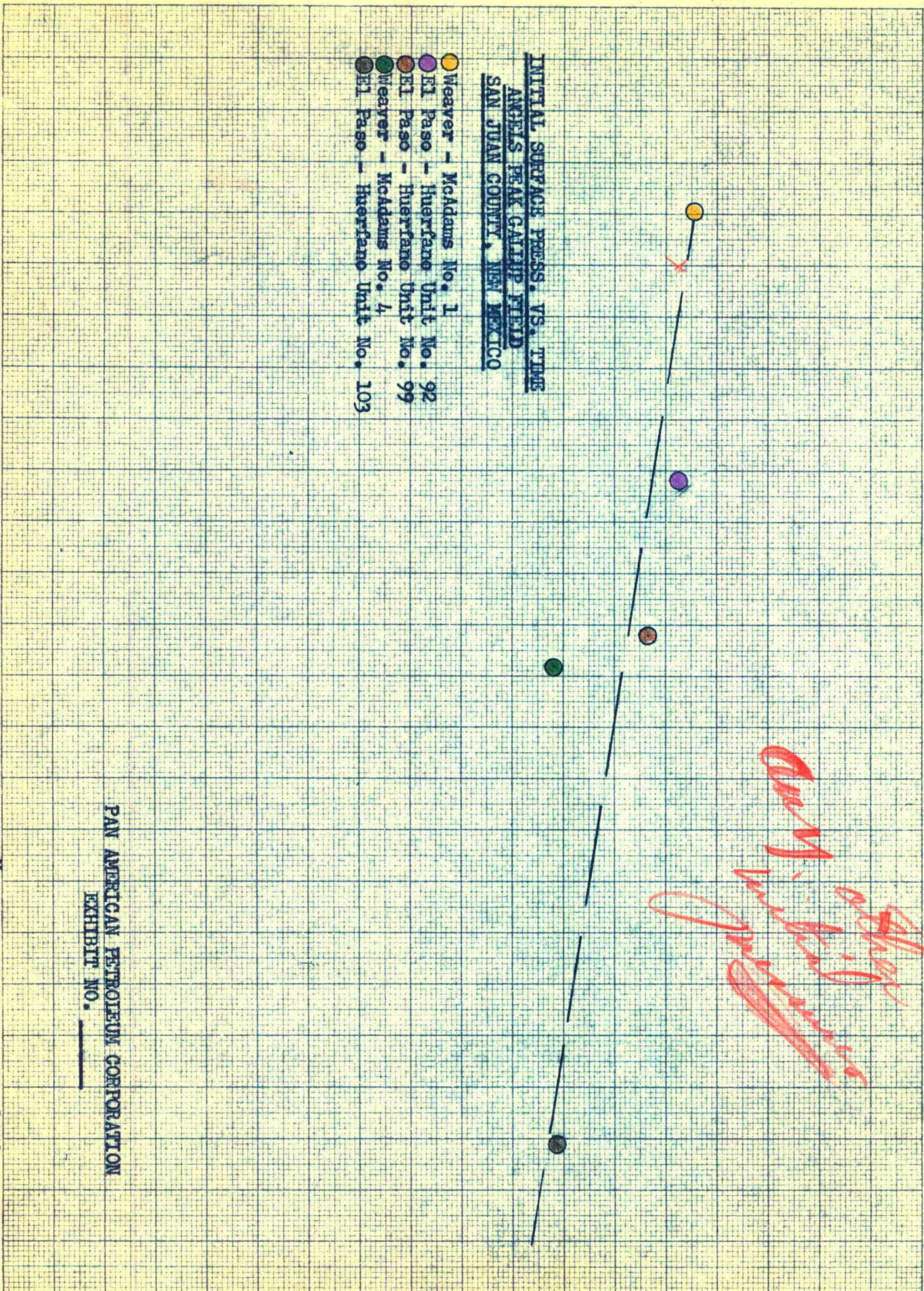
CASE NO. 1641

*Pan Am
EX 5*

*Shirley
Carmichael*

INITIAL SURFACE PRESS. VS. TIME
ANGEL'S PEAK CAMP FIELD
SAN JUAN COUNTY, NEW MEXICO

- Weaver - McAdams No. 1
- El Paso - Huertano Unit No. 92
- El Paso - Huertano Unit No. 99
- Weaver - McAdams No. 4
- El Paso - Huertano Unit No. 103



PAN AMERICAN PETROLEUM CORPORATION
EXHIBIT NO. _____

Surface Pressure, PSIG

SURFACE PRESS. VS. TIME
ANGEL'S PEAK GULF FIELD
SAN JUAN COUNTY, NEW MEXICO

- Weaver - McAdams No. 1
- Weaver - McAdams No. 2
- Weaver - McAdams No. 3
- Weaver - McAdams No. 4
- El Paso - Huertano Unit No. 92
- El Paso - Huertano Unit No. 99
- El Paso - Huertano Unit No. 103

● — Unreliable pressure due to probable fluid build-up.

PAN AMERICAN PETROLEUM CORPORATION
EXHIBIT NO. 3

1958 Time - Month

Case 1641

Surface Pressure, PSIG

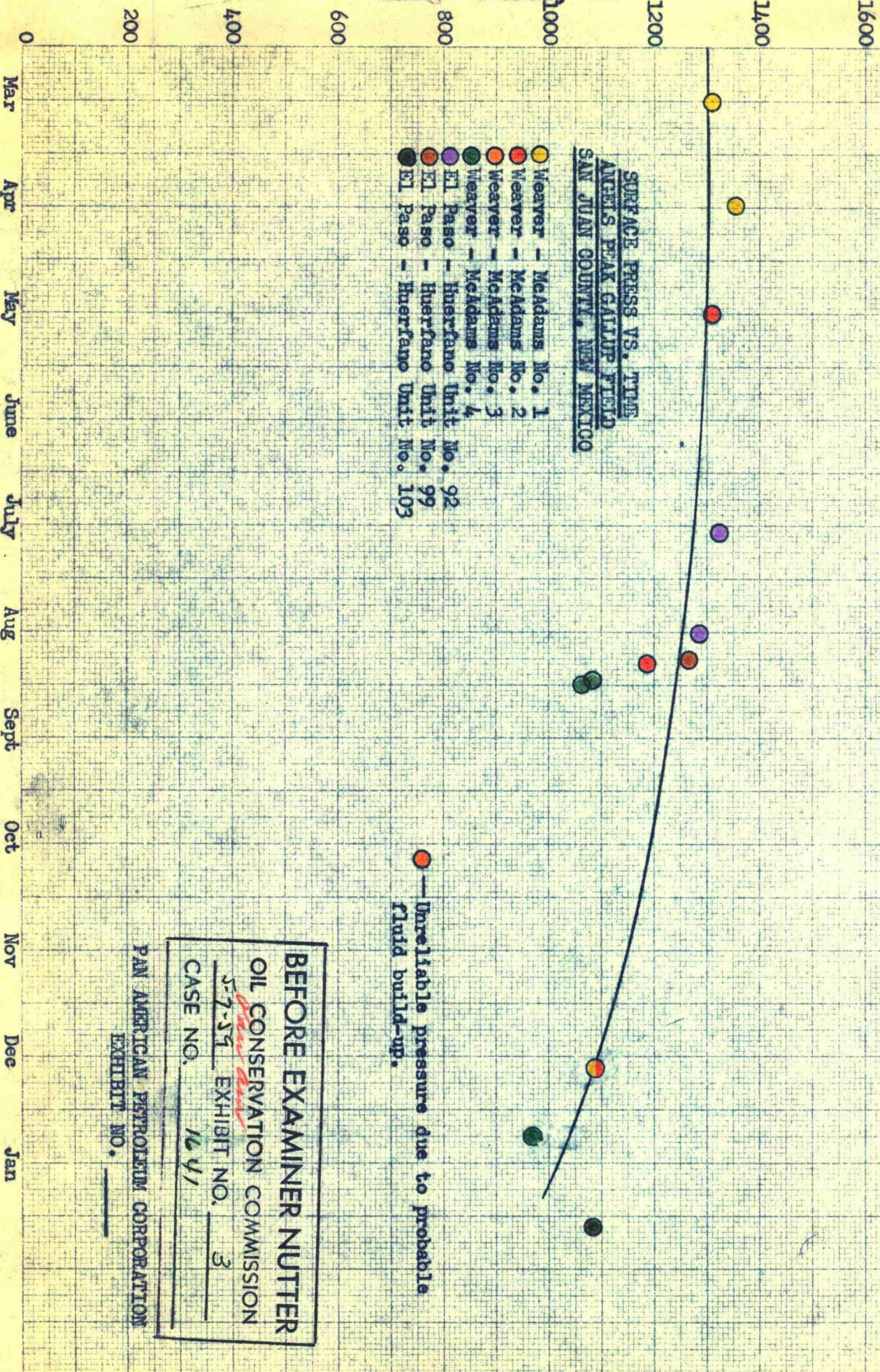
SURFACE PRESS VS. TIME
ARTES PEAK CALUMP FIELD
SAN JUAN COUNTY, NEW MEXICO

- Weaver - McAdams No. 1
- Weaver - McAdams No. 2
- Weaver - McAdams No. 3
- Weaver - McAdams No. 4
- El Paso - Huertano Unit No. 92
- El Paso - Huertano Unit No. 99
- El Paso - Huertano Unit No. 103

● — Unreliable pressure due to probable
fluid build-up.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
5-7-54 EXHIBIT NO. 3
CASE NO. 1641

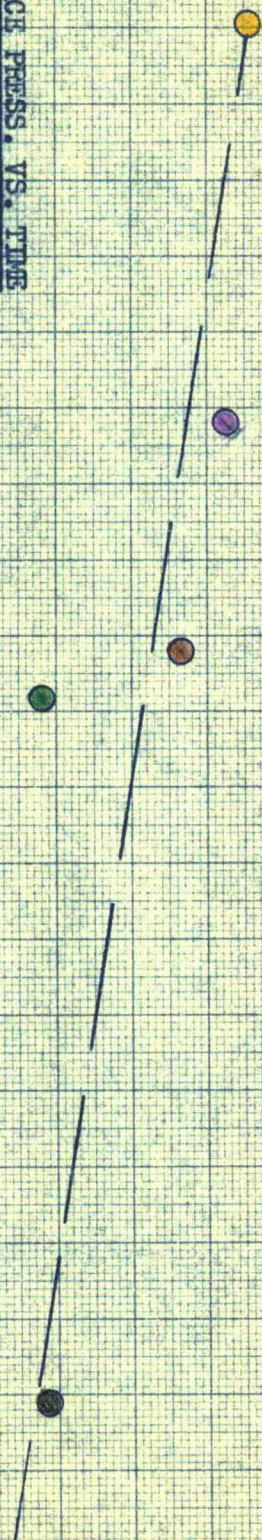
PAN AMERICAN PETROLEUM CORPORATION
EXHIBIT NO. _____



Surface Pressure - PSIG

INITIAL SURFACE PRESS. VS. TIME
ANGEL'S PEAK GULF FIELD
SAN JUAN COUNTY, NEW MEXICO

- Weaver - McAdams No. 1
- El Paso - Huerfano Unit No. 92
- El Paso - Huerfano Unit No. 99
- Weaver - McAdams No. 4
- El Paso - Huerfano Unit No. 103



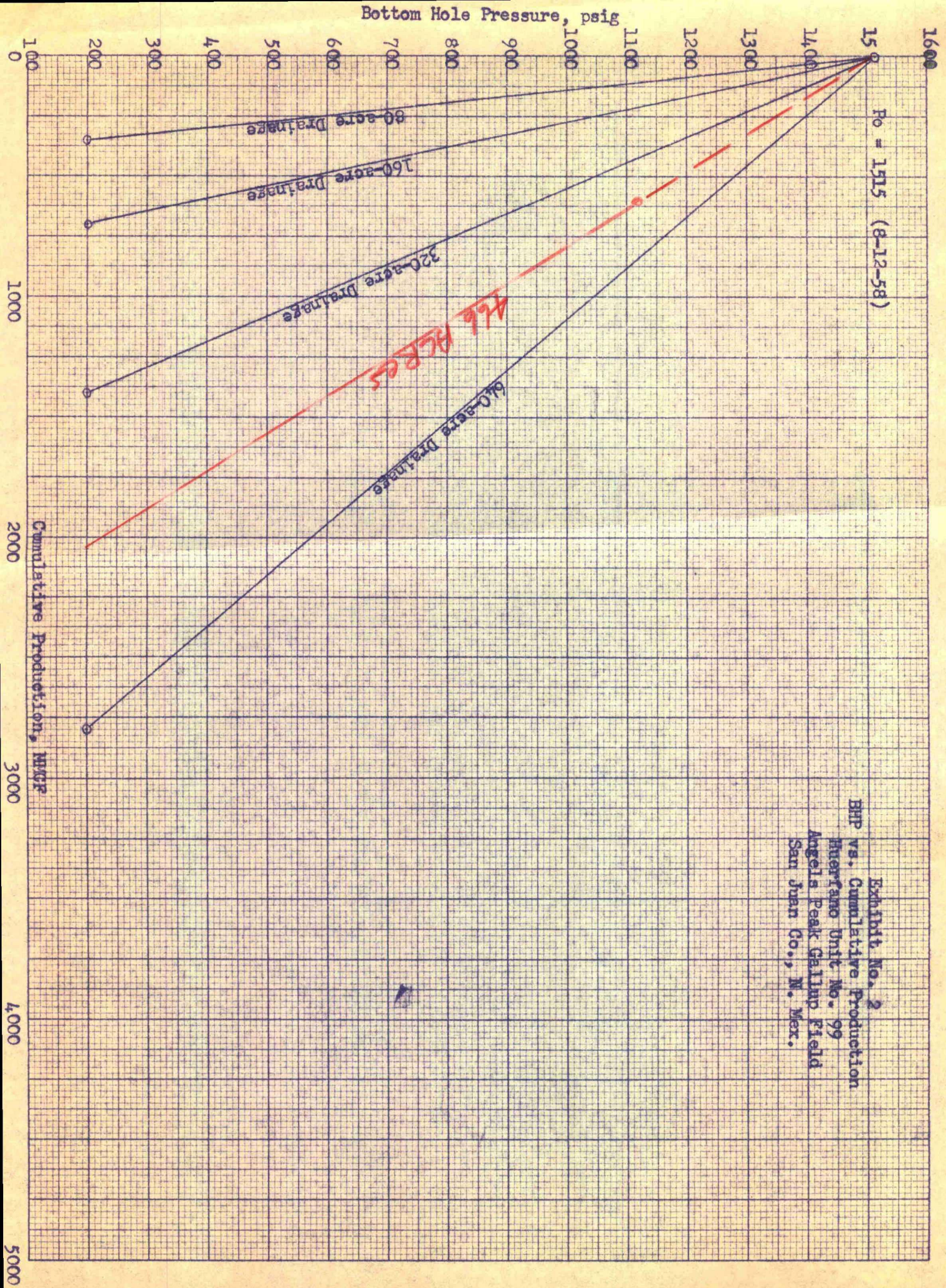
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
S-7-54 EXHIBIT NO. 5
CASE NO. 1641

PAN AMERICAN PETROLEUM CORPORATION
EXHIBIT NO. _____

Mar Apr May June July Aug Sept Oct Nov Dec Jan 1959

200 400 600 800 1000 1200 1400

Exhibit No. 2
BHP vs. Cumulative Production
Huerfano Unit No. 99
Angels Peak Gallup Field
San Juan Co., N. Mex.



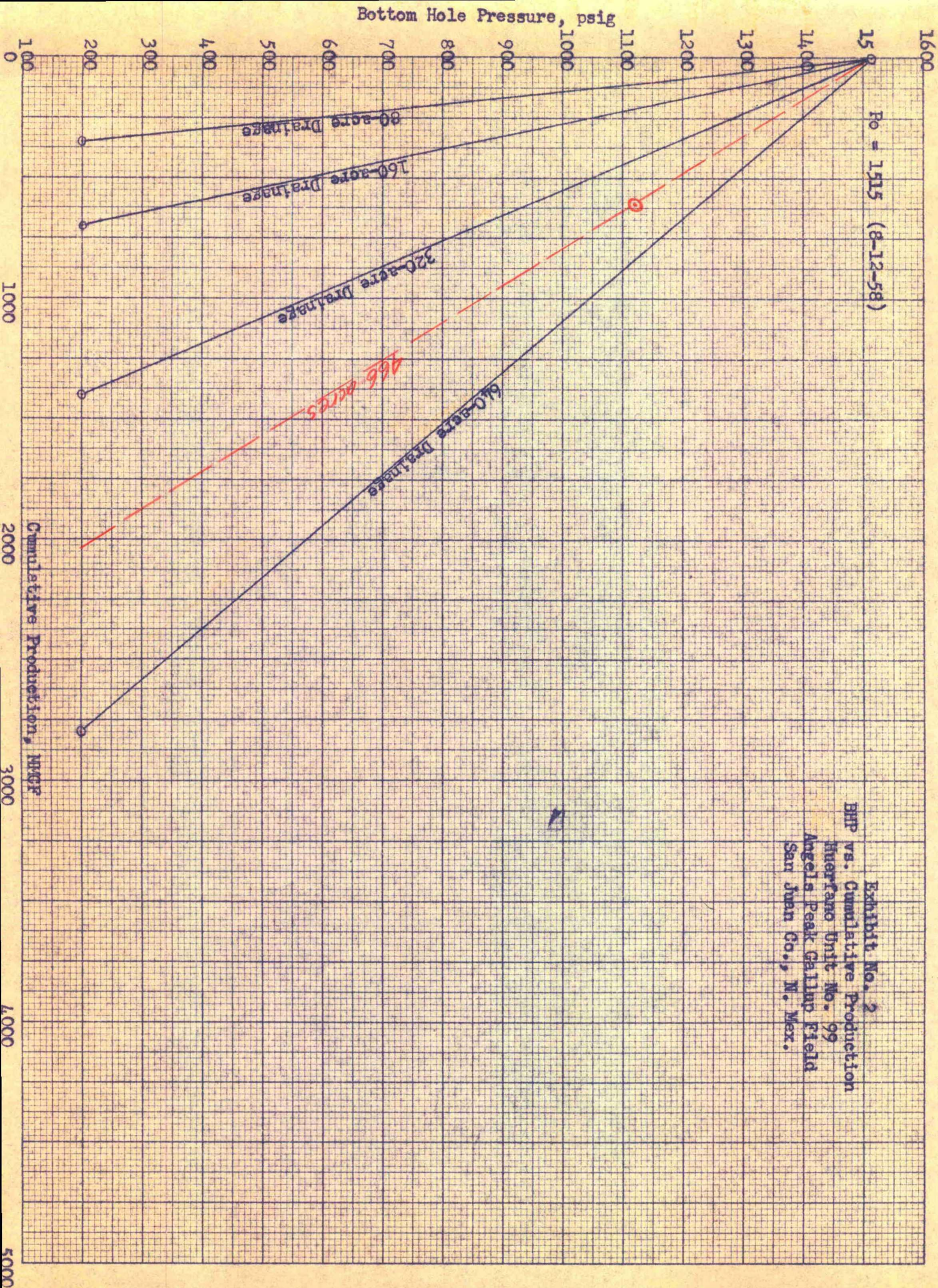


Exhibit No. 2
BHP vs. Cumulative Production
Huertano Unit No. 99
Angel's Peak Gallup Field
San Juan Co., N. Mex.

11/11/55
Angel's Peak Case

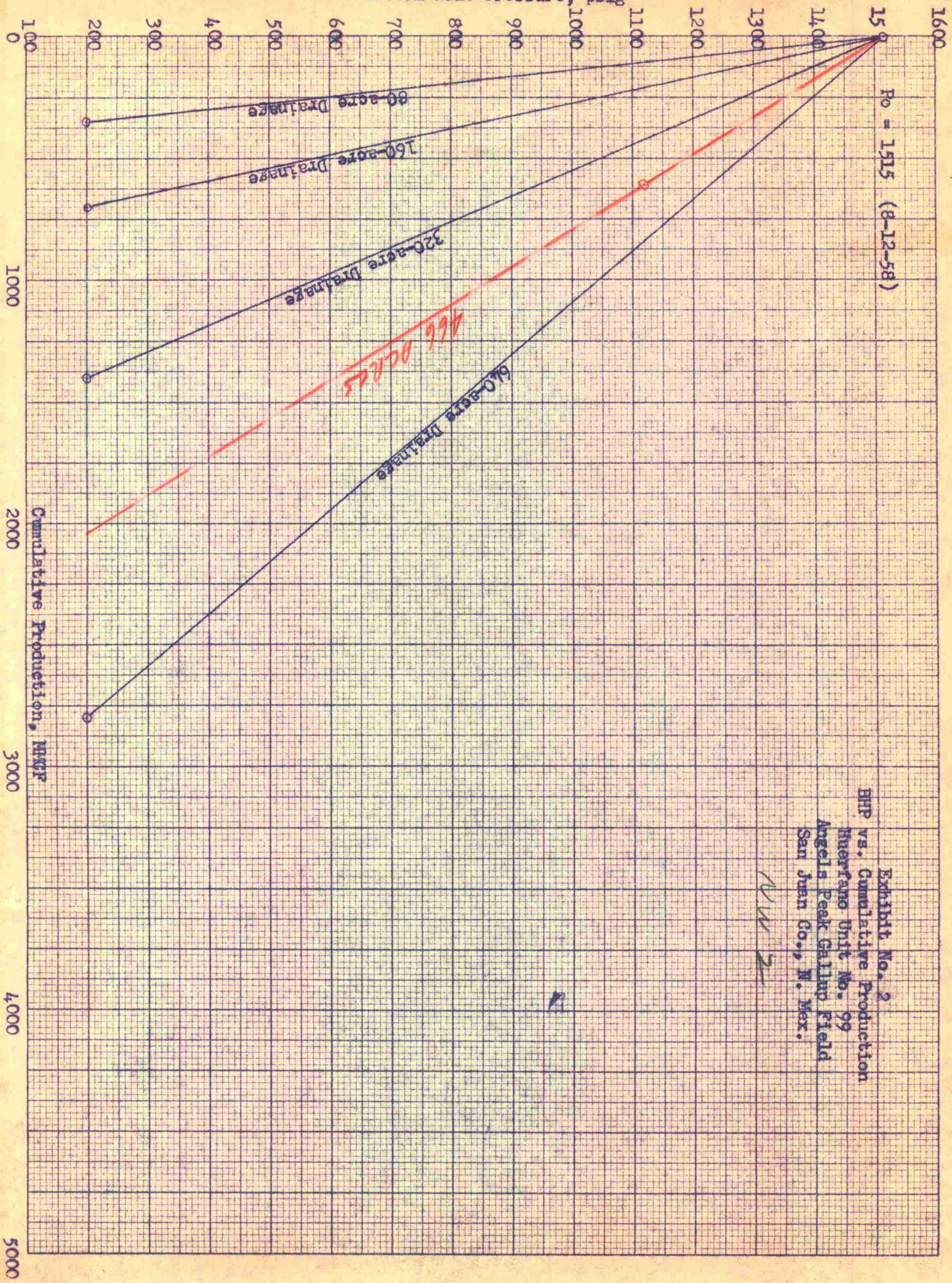
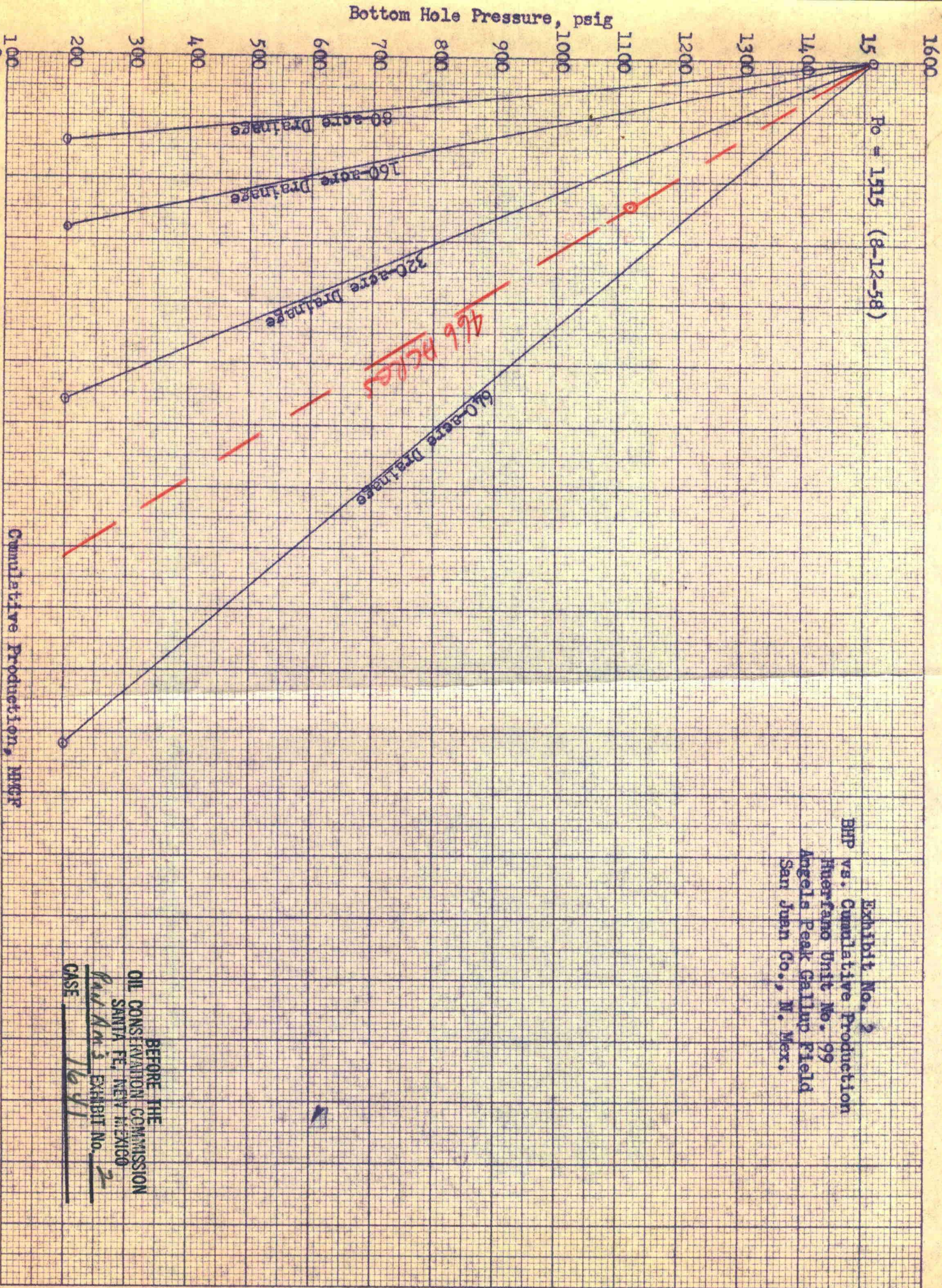


Exhibit No. 2
BHP vs. Cumulative Production
Huerfano Unit No. 99
Angel's Peak Gallup Field
San Juan Co., N. Mex.

NW 2

Exhibit No. 2
BHP vs. Cumulative Production
Huerrano Unit No. 99
Angels Peak Gallup Field
San Juan Co., N. Mex.



BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Case No. 1691
EXHIBIT No. 2

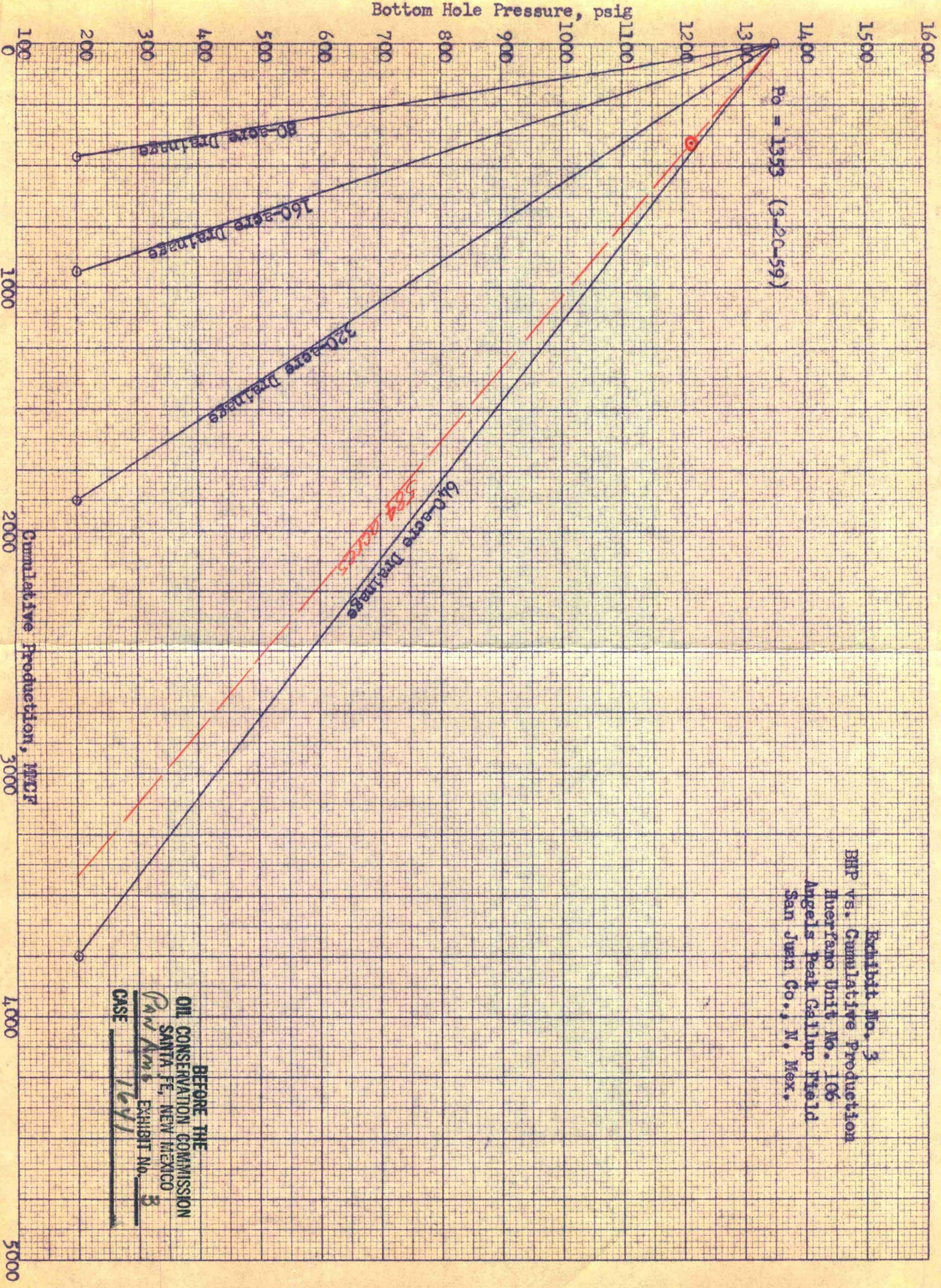
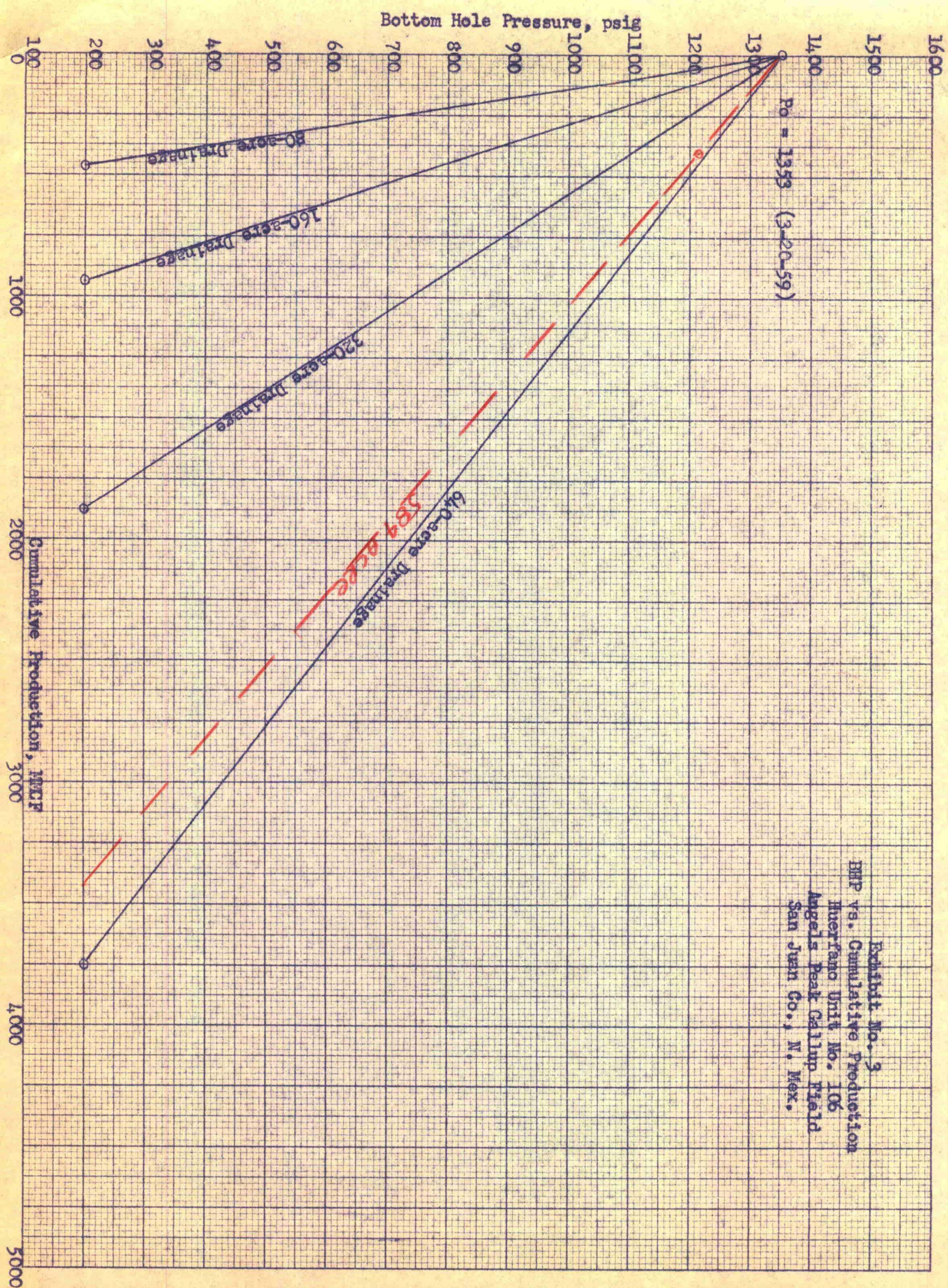


Exhibit No. 3
BHP vs. Cumulative Production
Huerrano Unit No. 106
Angels Peak Gallup Field
San Juan Co., N. Mex.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
PanAm's EXHIBIT No. 3
CASE 1671



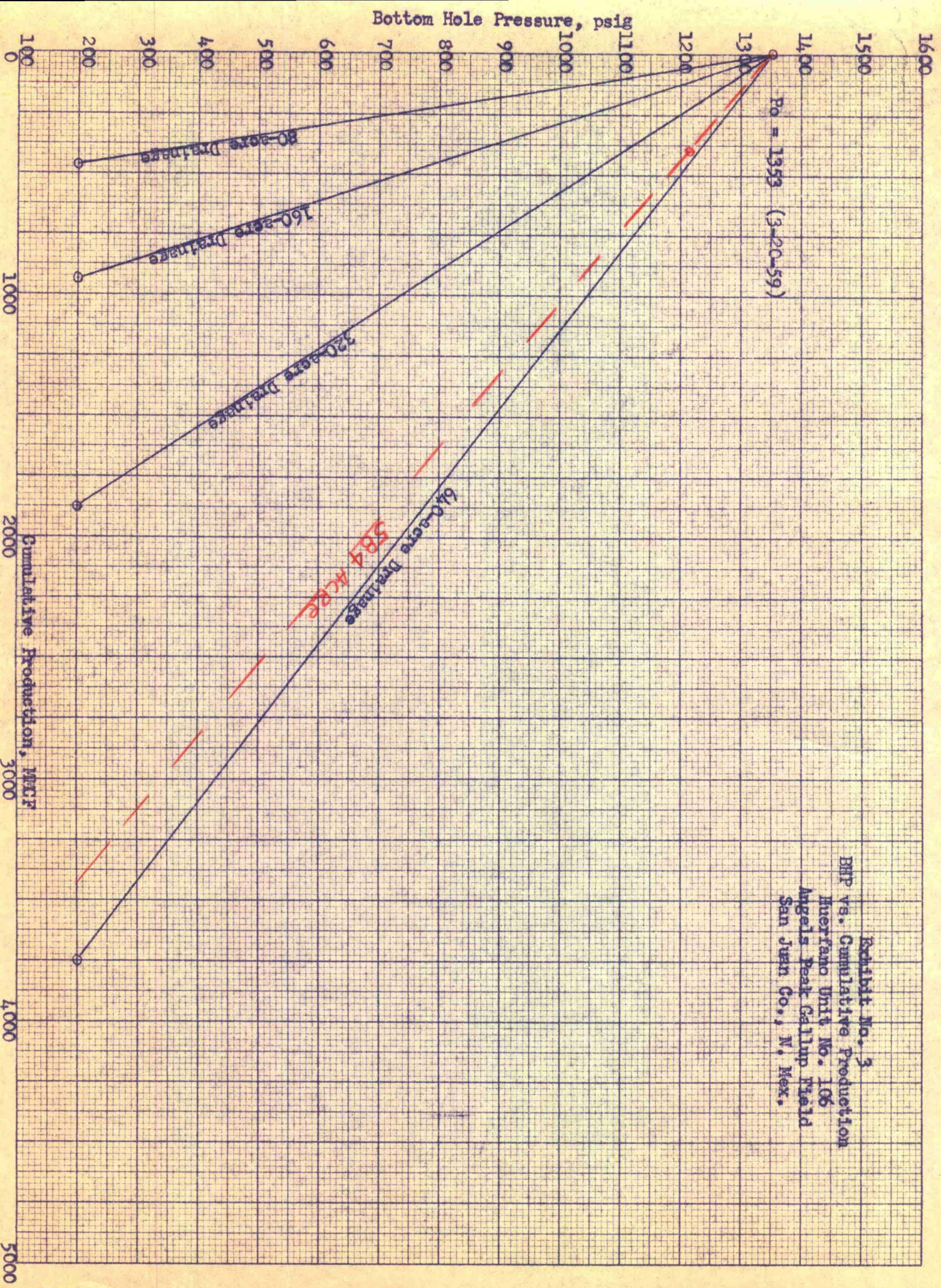
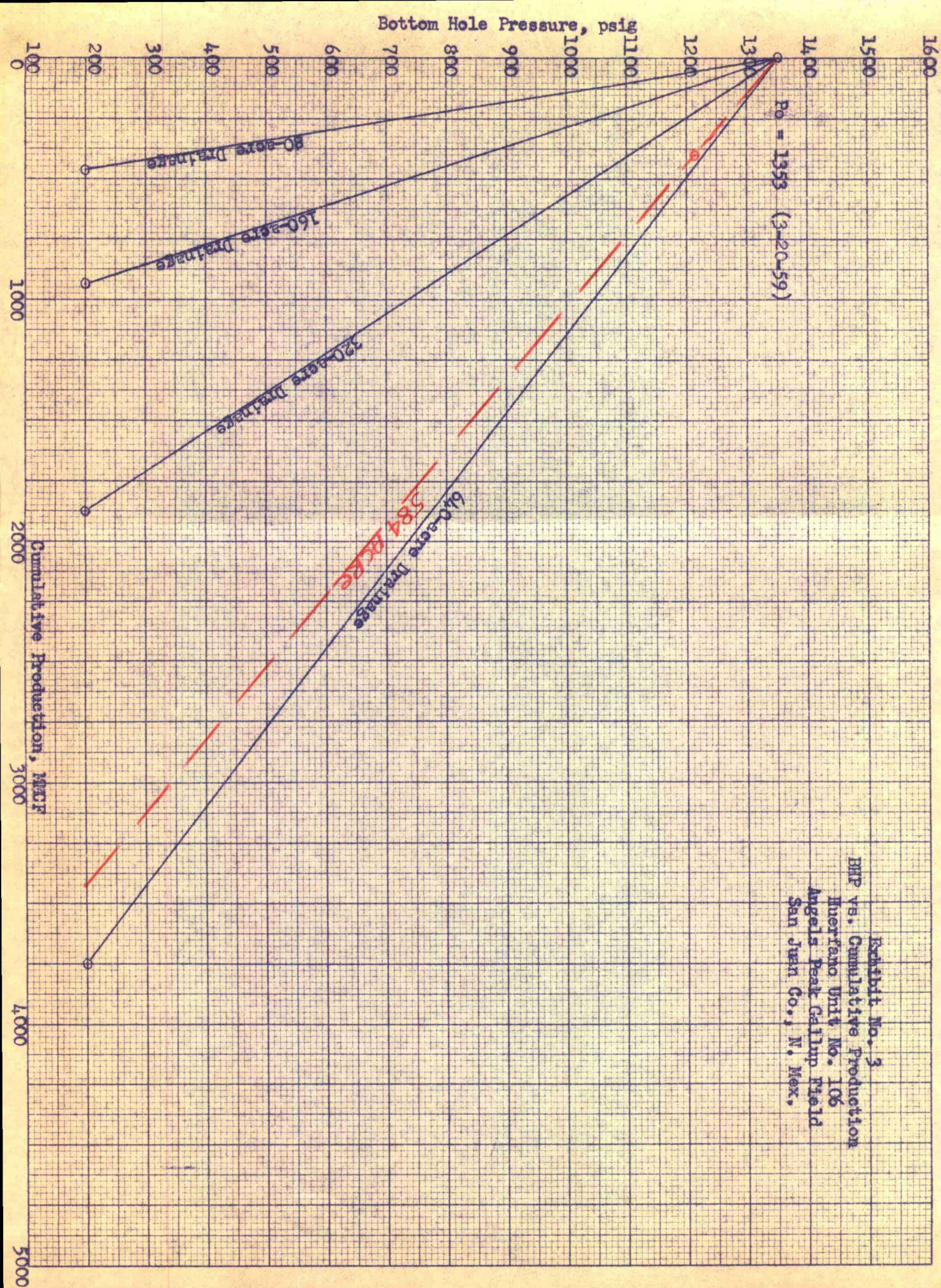


Exhibit No. 3
BHP vs. Cumulative Production
Huerfano Unit No. 106
Angels Peak Gallup Field
San Juan Co., N. Mex.



GAS-OIL RATIO TEST
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Test Date</u>	<u>Oil Prod.</u> <u>BOFD</u>	<u>GOR</u> <u>Cu. Ft./Bbl.</u>
W. R. Weaver			
McAdams No. 1	3-28-59	23	88,550
McAdams No. 2	3-28-59	28	120,930
McAdams No. 3	3-28-59	104	5,221
McAdams No. 4	3-28-59	28	116,636
El Paso Natural Gas			
Huerfano Unit No. 99	3-26-59	43	55,506
Huerfano Unit No. 103	3-15-59	23	98,947
Huerfano Unit No. 105	3-28-59	87	11,210
Huerfano Unit No. 107	3-29-59	290	2,573
Huerfano Unit No. 92	4-11-59	8	47,375
Pan American Petroleum Corp.			
McAdams "B" No. 1	3-8-59	43	2,675

SURFACE PRESSURE DATA
ANGELS PEAK GALLOP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Shut-In</u> <u>Surface</u> <u>Pressure</u> <u>PSIG</u>	<u>Shut-In</u> <u>Time</u> <u>- Days</u>	<u>Date of</u> <u>Shut-In</u> <u>Pressure</u>	<u>Type Test</u>	<u>Date of</u> <u>First</u> <u>Prod.</u> <u>(MM/DD/YY)</u>	<u>Cum. Prod.</u> <u>To Test</u> <u>Date-MMF</u> <u>(MM/DD/YY)</u>
W. R. Weaver McAdams No. 1	1310		March, 1958	(Rep. on USGS Final Log)	Apr. 1958	0
	1356	7	Apr. 29, 1958	Del. Test		1,486
	1090	7	Dec. 6, 1958	Del. Test		350,903
McAdams No. 2	1310		May, 1958	(Rep. on USGS Final Log)	May, 1958	0
	1187	7	Aug. 20, 1958	Del. Test		169,847
	1094	7	Dec. 6, 1958	Del. Test		354,231
McAdams No. 3	757	7	Oct. 23, 1958	Pkr. leakage	Nov. 1958	0
McAdams No. 4	1081	7	Aug. 27, 1958	Pkr. leakage	Sept. 1958	0
	1068	7	Aug. 30, 1958	Del. Test		0
	976	7	Dec. 22, 1958	Del. Test		475,182
El Paso Natural Gas Co. Huerfano Unit 92	1325	7	July 3, 1958	Pkr. leakage		0
	1289		Aug. 1958	(Rep. on USGS Final Log)		0
Huerfano Unit 99	1269	7	Aug. 19, 1958	Open Flw Test	Dec. 1958	0
Huerfano Unit 103	1088	9	Jan. 17, 1959	Open Flw Test		0

GAS-OIL RATIO TEST
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Test Date</u>	<u>Oil Prod.</u> <u>BOPD</u>	<u>GOR</u> <u>Cu. Ft./Bbl.</u>
W. R. Weaver			
McAdams No. 1	3-28-59	23	88,550
McAdams No. 2	3-28-59	28	120,930
McAdams No. 3	3-28-59	104	5,221
McAdams No. 4	3-28-59	28	116,636
El Paso Natural Gas			
Huerfano Unit No. 99	3-26-59	43	55,506
Huerfano Unit No. 103	3-15-59	23	98,947
Huerfano Unit No. 105	3-28-59	87	11,210
Huerfano Unit No. 106	4-30-59	59	62,983
Huerfano Unit No. 107	3-29-59	290	2,573
Huerfano Unit No. 92	4-11-59	8	47,375
Pan American Petroleum Corp.			
McAdams "B" No. 1	6-30-59	28	10,173
McAdams "B" No. 2	7-5-59	112	4,220

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
PAN AM EXHIBIT No. 3-A
CASE 1641

INITIAL BOTTOM HOLE PRESSURE DATA
ANGELES PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Date of</u> <u>Press. Meas.</u>	<u>Shut-In</u> <u>Time --</u> <u>Days</u>	<u>Initial</u> <u>BHP-PSIG</u> <u>(Datum +450)</u>	<u>Distance</u> <u>To Nearest</u> <u>Producing</u> <u>Well -- Ft.</u>	<u>Pressure</u> <u>Draw Down</u> <u>PSIG</u>	<u>Minimum</u> <u>Drainage</u> <u>Area--Acres</u>	<u>Pressure</u> <u>Draw Down</u> <u>% of Orig</u> <u>Pressure</u>
W. R. Weaver McAdams No. 1	Apr. 29, 1958	7	1620	Original Reservoir Pressure			
El Paso Natural Gas Co. Huerfano Unit 99	Aug. 19, 1958	7	1512	3,100	108	693	6.7
W. R. Weaver McAdams No. 4	Aug. 27, 1958	7	1290	2,450	330	433	20.4
McAdams No. 3	Sept. 3, 1958	7	1450	2,600	170	488	11.5
El Paso Natural Gas Co. Huerfano Unit No. 103	Jan. 17, 1959 Mar. 4, 1959	9 42	1295 1270*	1,980 1,980	325 350	283 283	20.0 21.6
Huerfano Unit No. 92	Jan. 22, 1959	7	1585	15,500	35	17,300	2.6
Huerfano Unit No. 106	Mar. 20, 1959	7	1320	3,550	300	909	18.5
Huerfano Unit No. 107	Mar. 25, 1959	33	1425*	2,175	195	341	12.0
Pan American McAdams "B" No. 2	June 26, 1959	3	1390*	3,100	320	693	19.8

* BHP measured with BHP Bomb.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Pan Am EXHIBIT No. 6A
CASE 1641

PRESSURE DATA
ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>Operator</u> <u>Lease & Well</u>	<u>Shut-In</u> <u>Surface</u> <u>Pressure</u> <u>PSIG (Dead</u> <u>Wt. Meas.)</u>	<u>Shut-In</u> <u>Time-Days</u>	<u>Date</u> <u>Pressure</u> <u>Measured</u>	<u>Date of</u> <u>First Prod.</u> <u>(NMOGEC)</u>	<u>Cum. to Test</u> <u>Date - MCF</u> <u>(NMOGEC)</u>	<u>Calculated</u> <u>BHP - PSIG</u> <u>(Datum +450)</u>	<u>Bomb Meas.</u> <u>BHP - PSIG</u> <u>(Datum +450)</u>
W. R. Weaver							
McAdams No. 1	1356	7	4-29-58	April, 1958	1,486	1620	
	1090	7	12-6-58		350,903	1300	
McAdams No. 2	1187	7	8-20-58	May, 1958	169,847	1410	
	1094	7	12-6-58		354,231	1303	
	1066	7	6-15-59		522,700	1268	
McAdams No. 3	1218	7	9-3-58	Nov., 1958	0	1450	
	757	7	10-23-58		0	Non-represen-	
						tative Surf.	
						Press.	
McAdams No. 4	1081	7	8-27-58	Sept., 1958	0	1290	
	976	7	12-22-58		475,200	1162	
	956	7	6-15-59		765,200	1140	
El Paso Natural Gas Co.							
Huerfano Unit No. 92	1325	7	7-3-58	April, 1959	0	1575	
	1333	7	3-20-59		0	1585	
Huerfano Unit No. 99	1269	7	8-19-58	Feb., 1959	0	1512	
Huerfano Unit No. 103	1088	9	1-17-59	March, 1959	0	1295	
	1066	42	3-4-59		0	1270	1267
Huerfano Unit No. 106	1123	7	3-20-59	April, 1959	0	1320	
Huerfano Unit No. 107	1182	33	3-25-59	April, 1959	0	1412	1425
Pan American							
McAdams "B" No. 2		3	6-26-59		0		1300

NOTE: May and June, 1959, Production estimated to be equal to allowable.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Pan Am EXHIBIT No. 4-A
CASE 1641

BOTTOM HOLE PRESSURE VS. TIME

(DATUM + 150)

ANGELS PEAK GALLUP FIELD

SAN JUAN COUNTY, NEW MEXICO

- Weaver - McAdams No. 1
- Weaver - McAdams No. 2
- Weaver - McAdams No. 3
- Weaver - McAdams No. 4
- El Paso - Huerfano Unit No. 92
- El Paso - Huerfano Unit No. 99
- El Paso - Huerfano Unit No. 103
- El Paso - Huerfano Unit No. 106
- El Paso - Huerfano Unit No. 107
- Pan American - McAdams "B" No. 2

BOTTOM HOLE PRESSURE - PSIG

1800

1600

1400

1200

1000

800

600

400

200

0

TIME - MONTHS

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BEFORE THE

OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

Pan Am EXHIBIT No. 5-A

CASE

1641

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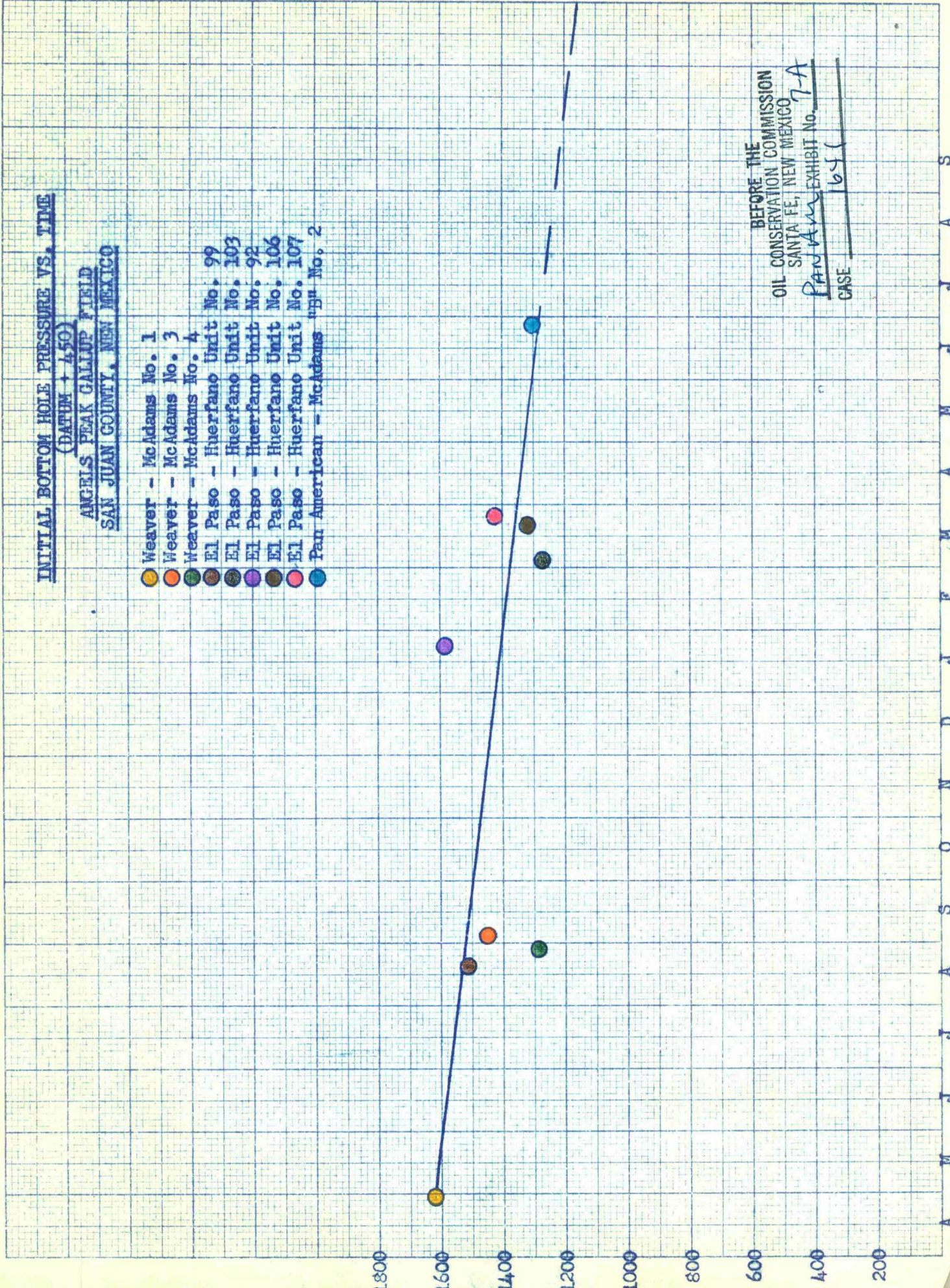
INITIAL BOTTOM HOLE PRESSURE VS. TIME

(DATUM + 450)

ANGELS PEAK GALLUP FIELD
SAN JUAN COUNTY, NEW MEXICO

- Weaver - McAdams No. 1
- Weaver - McAdams No. 3
- Weaver - McAdams No. 4
- El Paso - Huerfano Unit No. 99
- El Paso - Huerfano Unit No. 103
- El Paso - Huerfano Unit No. 92
- El Paso - Huerfano Unit No. 106
- El Paso - Huerfano Unit No. 107
- Pan American - McAdams "B" No. 2

BOTTOM HOLE PRESSURE - PSIG



BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Pan American EXHIBIT No. 7A

CASE 1641

A M J J A S O N D J F M A M J J A S

TIME - MONTHS

1958

1959

7

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W. W. WEAVER & A. N. BROWN
DATA SHEET
Angel Peak Gas-Lift Pool
17000 Case 1742

Robert

CORE LABORATORIES, Inc.
Dallas, Texas

ILLEGIBLE

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
WEAVER EXHIBIT NO. 6
CASE NO. 1641

Oil & Gas Properties

Company W. W. Weaver Formation Gallup Well McAdams #2

Cores Diagonal Core, Field Pressure Drilling Fluid Gas Date Report 3-10-58

County San Juan State N.M. Elev 6745 ft Location Sec 34 27N - 10W

Depth Feet	Permeability Millidarcys	Porosity Percent	Residual Saturation		Prob Prod	Remarks
			Oil % Volume Pore	Water % Pore		
6184-85	100.0	18.3	14.2	20.2		Vertical Frac
85-86	100.0	18.7	14.6	7.0		
86-87	100.0	18.3	32.1	22.6		Vertical Frac
87-88	100.0	18.3	15.1	8.9		
88-89	100.0	18.2	27.4	37.0		
89-90	100.0	18.3	16.3	7.2		
90-91	100.0	17.7	12.4	12.4		
91-92	17.0	17.1	11.1	5.3		
92-93	12.0	17.8	15.2	6.2		
93-94	28.0	16.7	16.8	5.4		
94-95	10.7	14.7	11.6	25.2		
95-96	10.0	13.1	17.8	11.3		
6199-6200	0.0	0.0	17.7	7.1		Vertical Frac
6200-01	0.0	0.0	26.9	23.1		Vertical Frac
01-02	0.0	10.2	39.2	19.6		
02-03	0.0	0.0	27.3	16.2		Vertical Frac
03-04	0.0	0.0	31.1	47.5		
04-05	1.0	9.1	23.1	15.4		
05-06	0.0	0.0	16.4	22.9		
06-07	0.0	9.0	27.2	32.2		
07-08	0.0	5.8	12.1	13.8		Vertical Frac

Company El Paso Natural Gas Formation Gallup Well Surface No. 106

Core Type Diagonal Core, Field Pressure Date Report 12-11-58 Drilling Fluid Emulsion Mud

County San Juan State N.M. Elev 6723 ft Location Sec 32 27N - 10W

Depth Feet	Permeability Millidarcys	Porosity Percent	Residual Saturation		Prob Prod	Remarks
			Oil % Volume Pore	Water % Pore		
5716-17	1.0	11.1	1.0	41.0		Vertical Frac
17-18	1.0	7.7	1.0	40.4		Vertical Frac
18-19	1.0	13.1	1.0	10.5		
19-20	1.0	12.1	11.0	21.0		
20-21	1.0	10.0	10.0	29.9		
21-22	1.0	13.2	23.5	15.9		
22-23	1.0	11.0	25.1	14.0		Vertical Frac
23-24	1.0	12.3	26.0	23.6		
24-25	1.0	11.7	24.4	18.9		
25-26	1.0	14.0	17.0	21.7		
26-27	1.0	11.0	11.0	26.5		
27-28	1.0	11.3	26.0	38.2		
28-29	1.0	11.0	12.0	33.5		
29-30	1.0	14.7	15.4	22.5		
30-31	1.0	11.0	23.0	21.9		
31-32	1.0	14.0	10.0	24.3		
32-33	1.0	11.0	15.0	53.2		
33-34	1.0	11.0	26.7	15.3		
34-35	1.0	11.0	25.1	34.6		
35-36	1.0	11.0	21.1	20.1		
36-37	1.0	11.0	30.9	39.2		
37-38	1.0	11.0	32.0	20.0		
38-39	1.0	11.0	13.7	31.7		
5739-40	1.0	10.1	20.7	19.7		

#6

BEFORE EXAMINER NUTTER
IL CONSERVATION COMMISSION
WEAVER EXHIBIT NO. 6
CASE NO. 16411

W. T. WEAVER & A. N. BROWN
DATA SHEET
Angel Peak Gallup Pool
NMCC Case 141
MAIN OFFICE 000

COMMISSIONER OF LANDS
Dallas, Texas

#1
ILLEGIBLE

COMPARATIVE RESULTS

Company W. T. Weaver Formation Gallup Well McAdams #2
Cores Diamond Canyon Field Huertano Drilling Fluid Gas Date Report 1-10-58
County San Juan State Utah Elev 6625' Location Sec 34 27N - 10W

Depth Feet	Permeability Millidarcys	Porosity Percent	Residual Saturation		Prob Prod	Remarks
			Oil % Volume	Water % Pore		
6184-85	100.0	18.3	14.2	20.2		Vertical Frac
85-86	100.0	18.7	14.6	7.7		
86-87	100.0	15.2	32.1	22.6		Vertical Frac
87-88	100.0	13.3	15.1	8.9		
88-89	100.0	6.2	27.4	37.0		
89-90	100.0	11.3	16.3	7.2		
90-91	100.0	9.7	12.4	12.4		
91-92	100.0	17.1	11.1	5.3		
92-93	100.0	17.2	15.2	6.2		
93-94	100.0	16.7	16.8	5.4		
94-95	100.0	14.7	11.6	25.2		
95-96	100.0	13.3	27.8	11.3		
6199-6200	100.0	8.5	17.7	7.1		Vertical Frac
6200-01	100.0	8.2	26.9	23.1		Vertical Frac
01-02	100.0	11.2	39.2	19.6		
02-03	100.0	9.9	27.3	16.2		Vertical Frac
03-04	100.0	6.3	31.1	47.5		
04-05	100.0	2.1	23.1	15.4		
05-06	100.0	6.1	11.4	22.9		
06-07	100.0	2.2	27.2	39.2		
07-08	100.0	1.4	13.1	13.8		Vertical Frac

Company El Paso Natural Gas Co Formation Gallup Well Huertano No. 106
Core Type Diamond Canyon Field Date Report 12-14-58 Drilling Fluid Oil Emulsion Mud
County San Juan State New Mexico Elev 6321' Location Sec 33 27 N 10 W

Depth Feet	Permeability Millidarcys	Porosity Percent	Residual Saturation		Prob Prod	Remarks
			Oil % Volume	Water % Pore		
5716-17	100.0	11.1	1.6	41.3		Vertical Frac
17-18	100.0	7.7	32.9	49.4		Vertical Frac
18-19	100.0	13.1	2.1	11.5		
19-20	100.0	22.4	15.2	25.9		
20-21	100.0	2.9	10.0	25.8		
21-22	100.0	13.2	23.5	15.9		
22-23	100.0	13.9	25.7	14.3		Vertical Frac
23-24	100.0	13.2	26.9	23.6		
24-25	100.0	11.2	24.4	18.9		
25-26	100.0	12.1	17.3	21.7		
26-27	100.0	17.0	11.2	26.5		
27-28	100.0	11.3	26.9	38.2		
28-29	100.0	11.2	12.9	23.5		
29-30	100.0	22.7	12.4	22.5		
30-31	100.0	11.2	23.1	21.9		
31-32	100.0	12.9	13.6	24.3		
32-33	100.0	14.2	14.6	53.2		
33-34	100.0	10.6	26.7	18.3		
34-35	100.0	14.6	24.1	31.6		
35-36	100.0	12.9	31.1	20.1		
36-37	100.0	7.9	20.9	32.2		
37-38	100.0	11.9	32.0	26.9		
38-39	100.0	8.9	31.7	31.7		
5739-40	100.0	12.1	27.7	19.7		

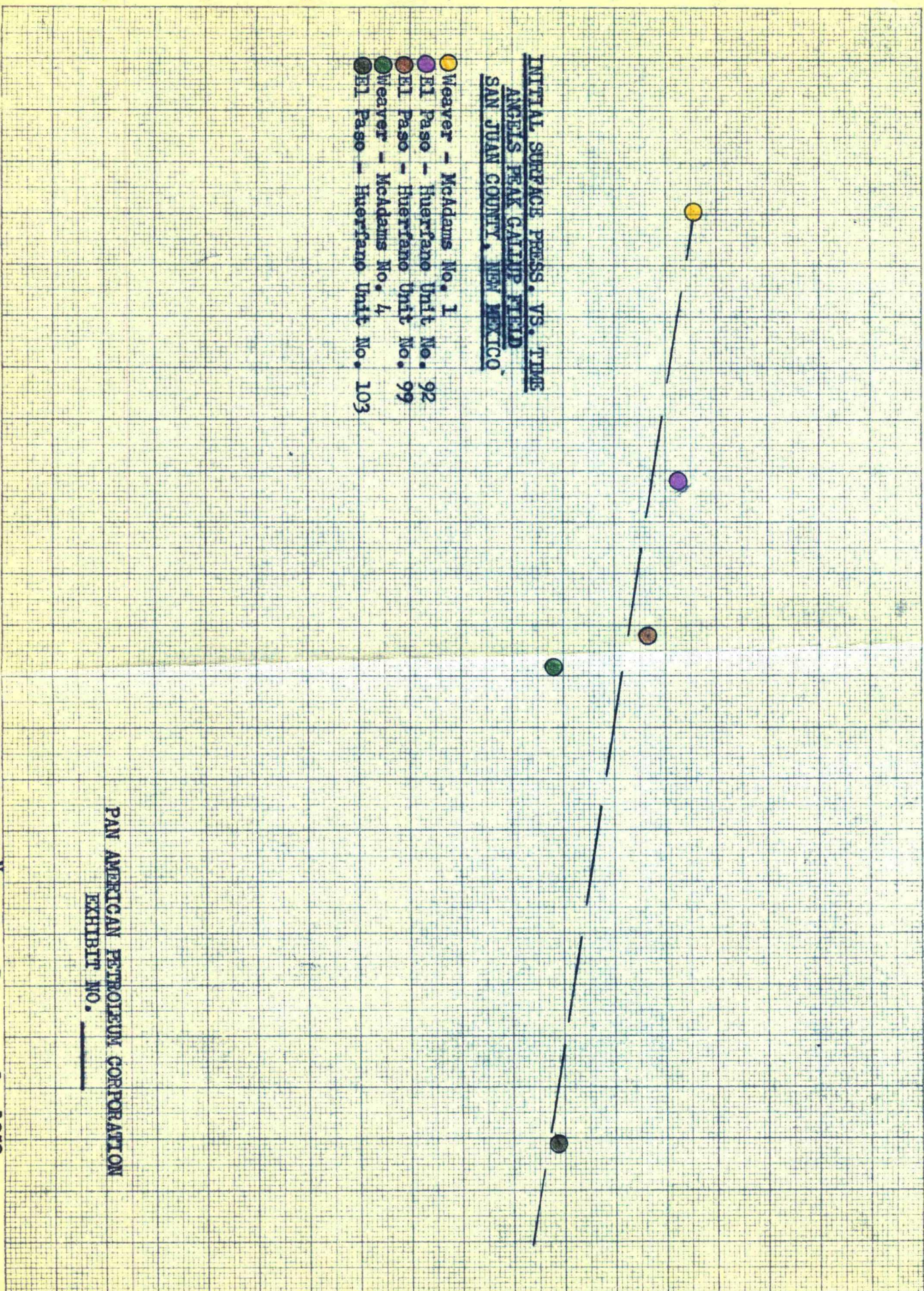
58-60
clear
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dark green oil
42-44

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Surface Pressure - PSIG

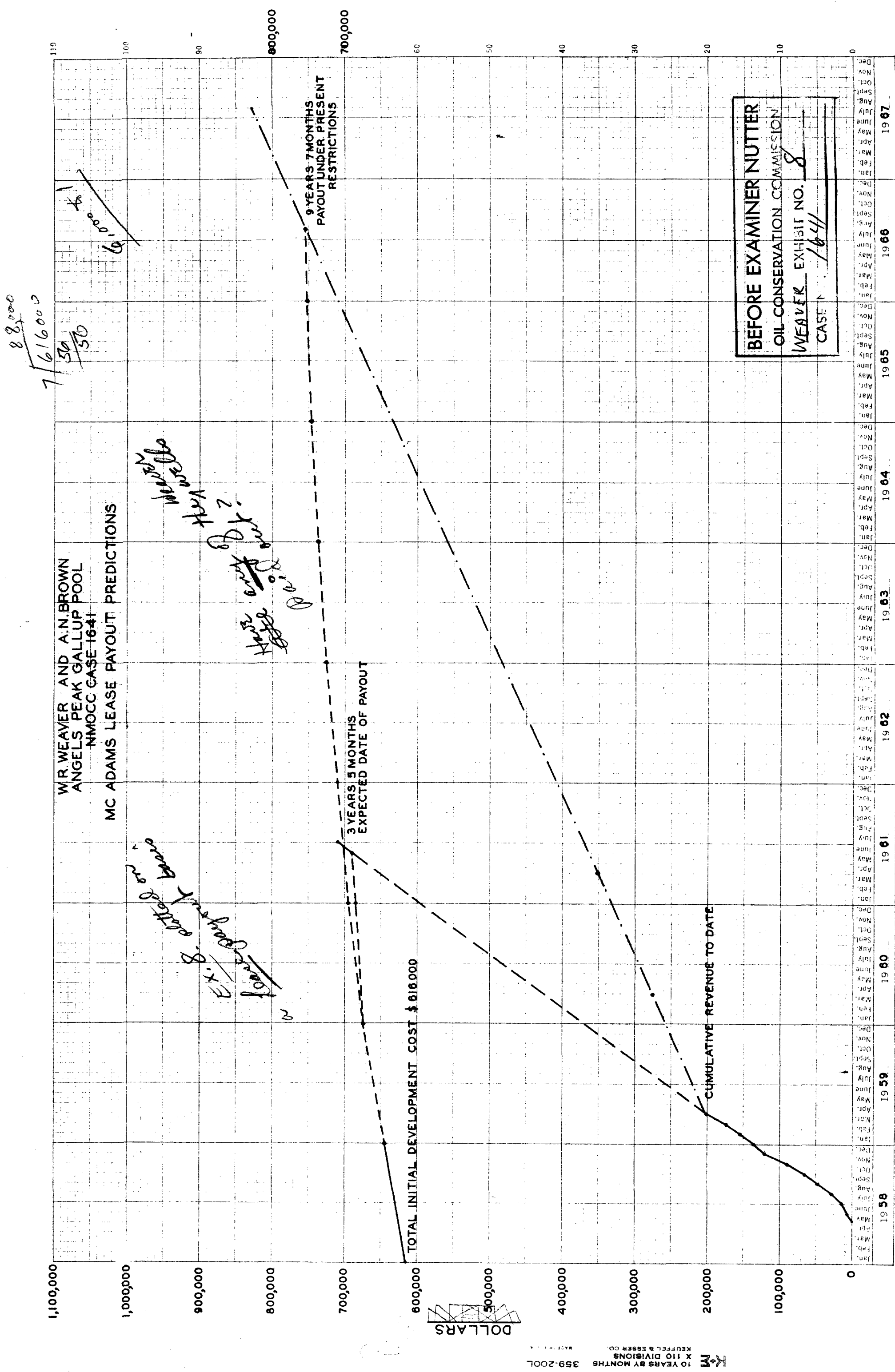
INITIAL SURFACE PRESS. VS. TIME
ANGEL'S PEAK GULF FIELD
SAN JUAN COUNTY, NEW MEXICO

- Weaver - McAdams No. 1
- El Paso - Huertano Unit No. 92
- El Paso - Huertano Unit No. 99
- Weaver - McAdams No. 4
- El Paso - Huertano Unit No. 103



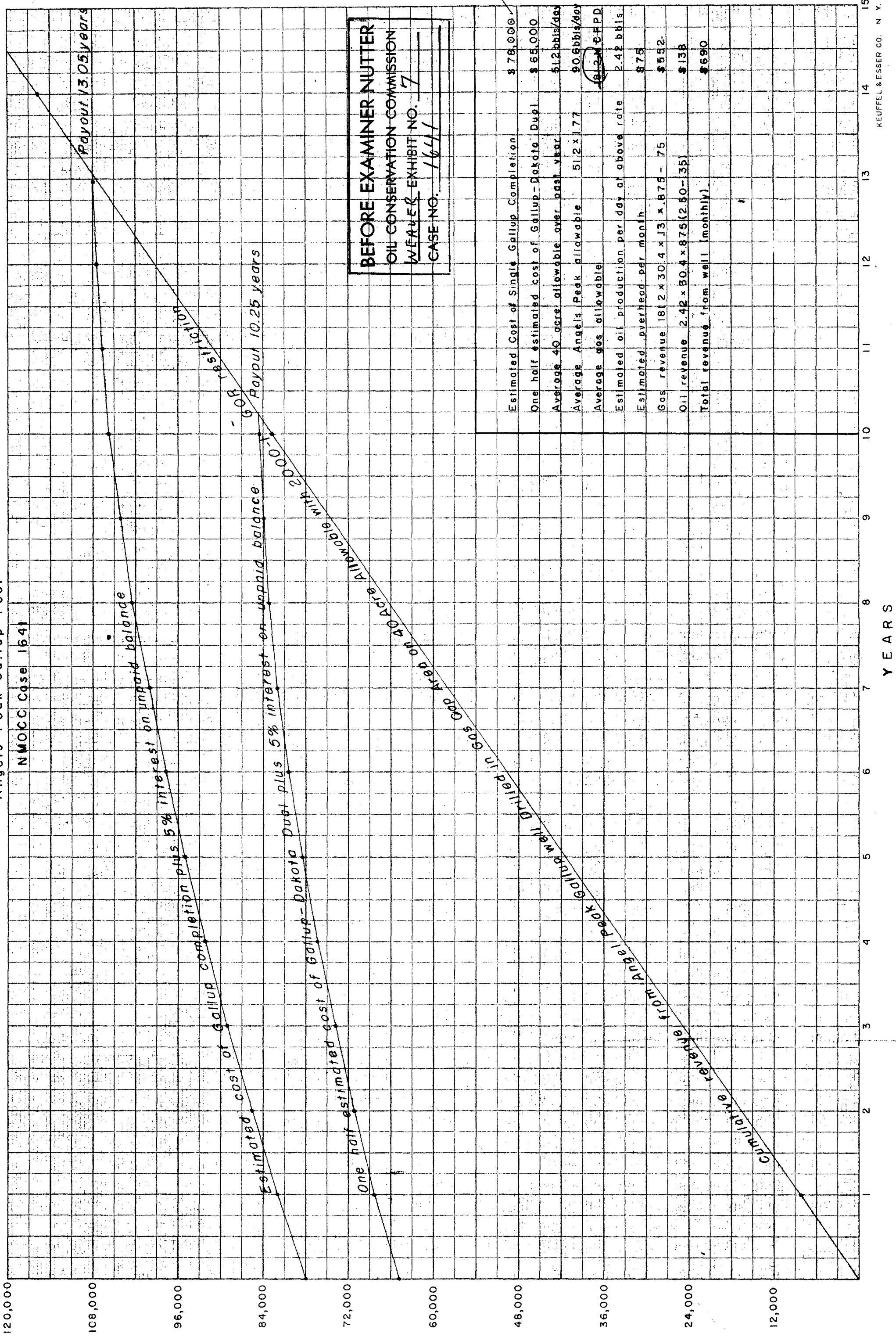
PAN AMERICAN PETROLEUM CORPORATION
EXHIBIT NO. 1041

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359-2007 10 YEARS BY MONTHS X 110 DIVISIONS KEUFFEL & ESSER CO. MADE IN U.S.A.

W. R. Weaver and A. N. Brown
Angels Peak Gallup Pool



ENGRAVING 354-3, 10 X 10 TO THE HALF INCH.
MADE IN U.S.A.
WHEN ORDERING STATE COLOR, DRAWING OR TRACING PAPER.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
WEAVER EXHIBIT NO. 7
CASE NO. 1641

Estimated Cost of Single Gallup Completion	\$ 78,000
One half estimated cost of Gallup - Dakota Dual	\$ 65,000
Average 40 acre allowable over past year	51.2 bbls/day
Average Angels Peak allowable	51.2 x 177
Average gas allowable	90.6 bbls/day
Estimated oil production per day at above rate	2.42 bbls
Estimated overhead per month	\$ 75
Gas revenue $1812 \times 30.4 \times .13 \times .875 - 75$	\$ 552
Oil revenue $2.42 \times 30.4 \times 875 (2.50 - .35)$	\$ 138
Total revenue from well (monthly)	\$ 690

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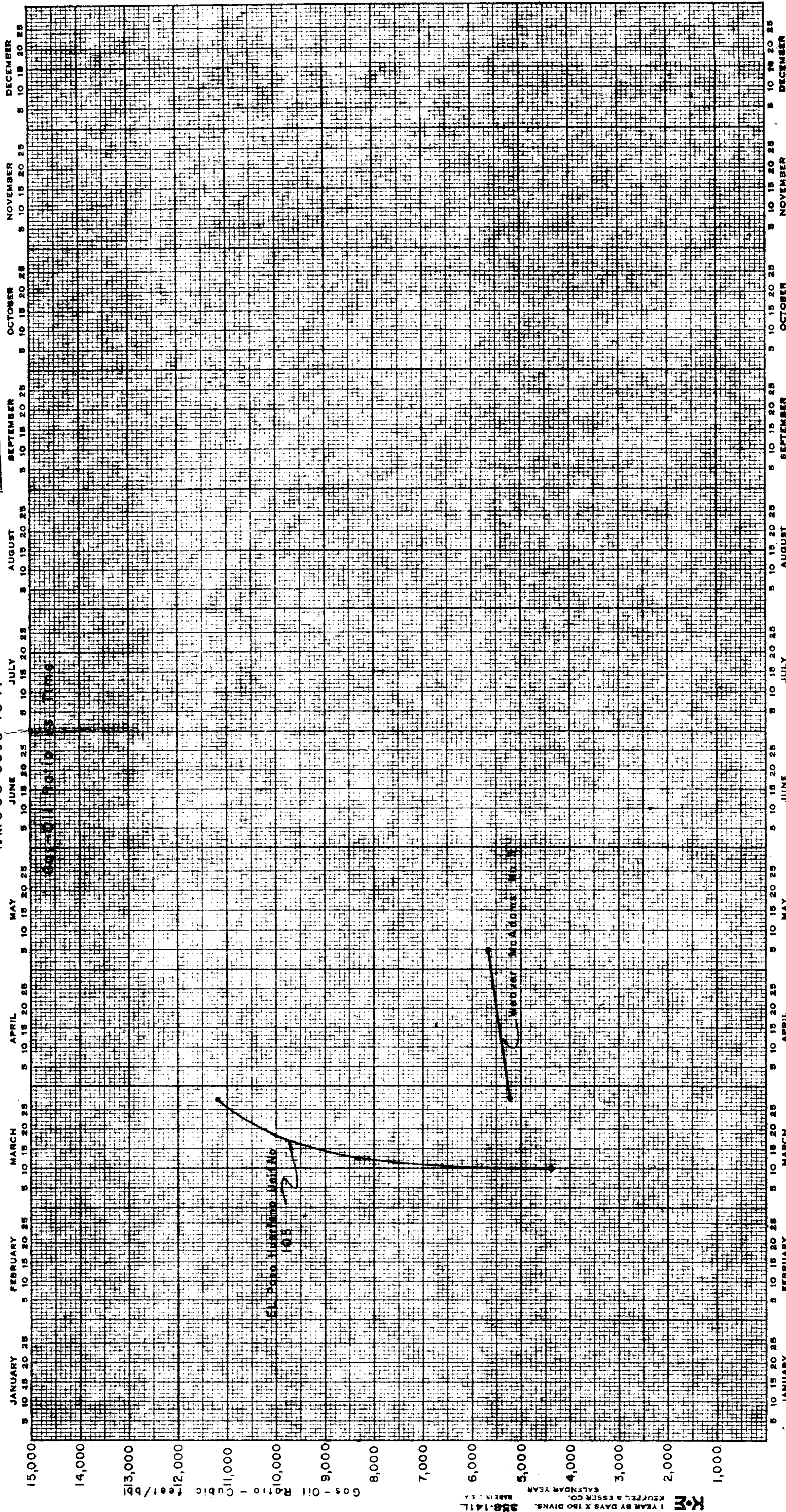
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BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
WEAVER EXHIBIT NO. 5
CASE NO. 1641

W. R. Weaver and A. N. Brown
Angels Peak Gallup Pool

NMOCC Case 1641

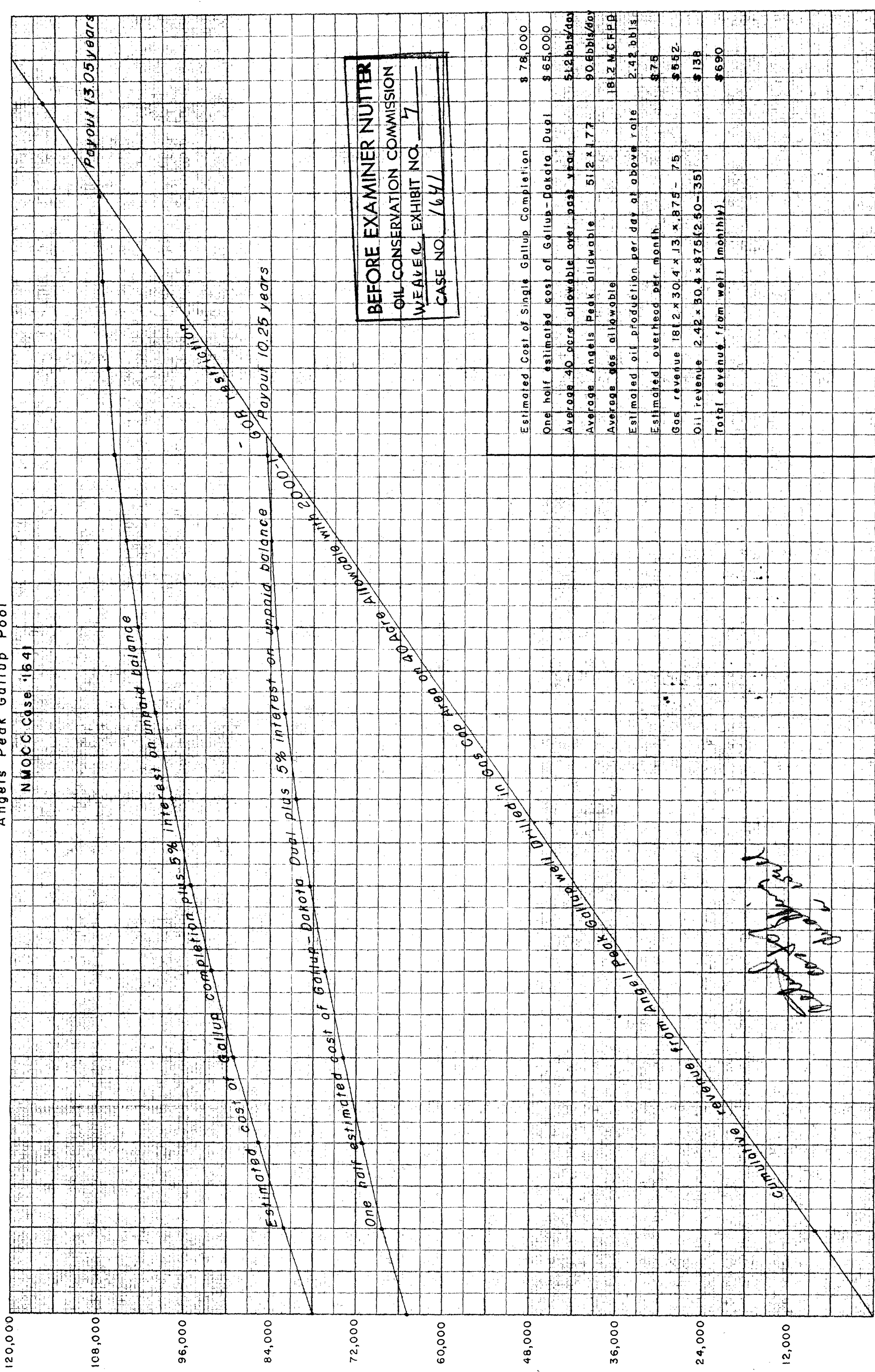


K-E
1 YEAR BY DAYS X 150 DIVS.
358-141L
KEUFFEL & ESSER CO.
MADE IN U.S.A.
CALENDAR YEAR

1959

W. R. Weaver and A. N. Brown
Angels Peak Gallup Pool

NMCC Case #1641



ENGRAVING 354-3, 10 X 10 TO THE HALF INCH.
WHEN ORDERING STATE COLOR, DRAWING OR TRADING PAPER.
MADE IN U.S.A.
100% RAG PAPER

DOLLARS

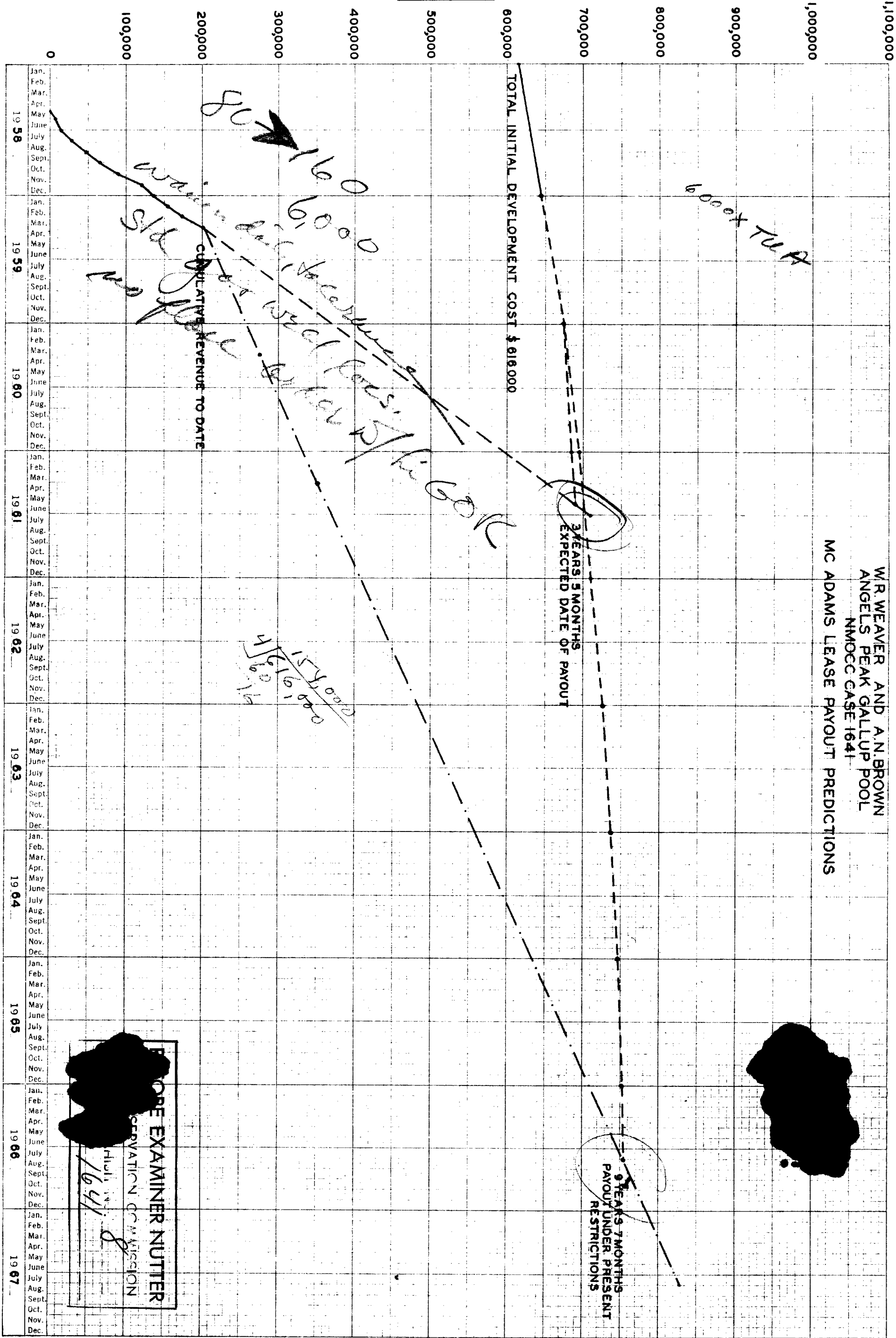
Estimated Cost of Single Gallup Completion	\$ 78,000
One half estimated cost of Gallup-Dakota Dual	\$ 65,000
Average 40 acre allowable over past year	51.2 bbls/day
Average Angels Peak allowable	51.2 x 177
Average gas allowable	90.6 bbls/day
	181.2 MCF PD
Estimated oil production per day at above rate	2.42 bbls
Estimated overhead per month	\$ 75
Gas revenue $181.2 \times 30.4 \times .13 \times .875$	- 75
Oil revenue $2.42 \times 30.4 \times .875$	(2.60 - .35)
Total revenue from well (monthly)	\$ 690

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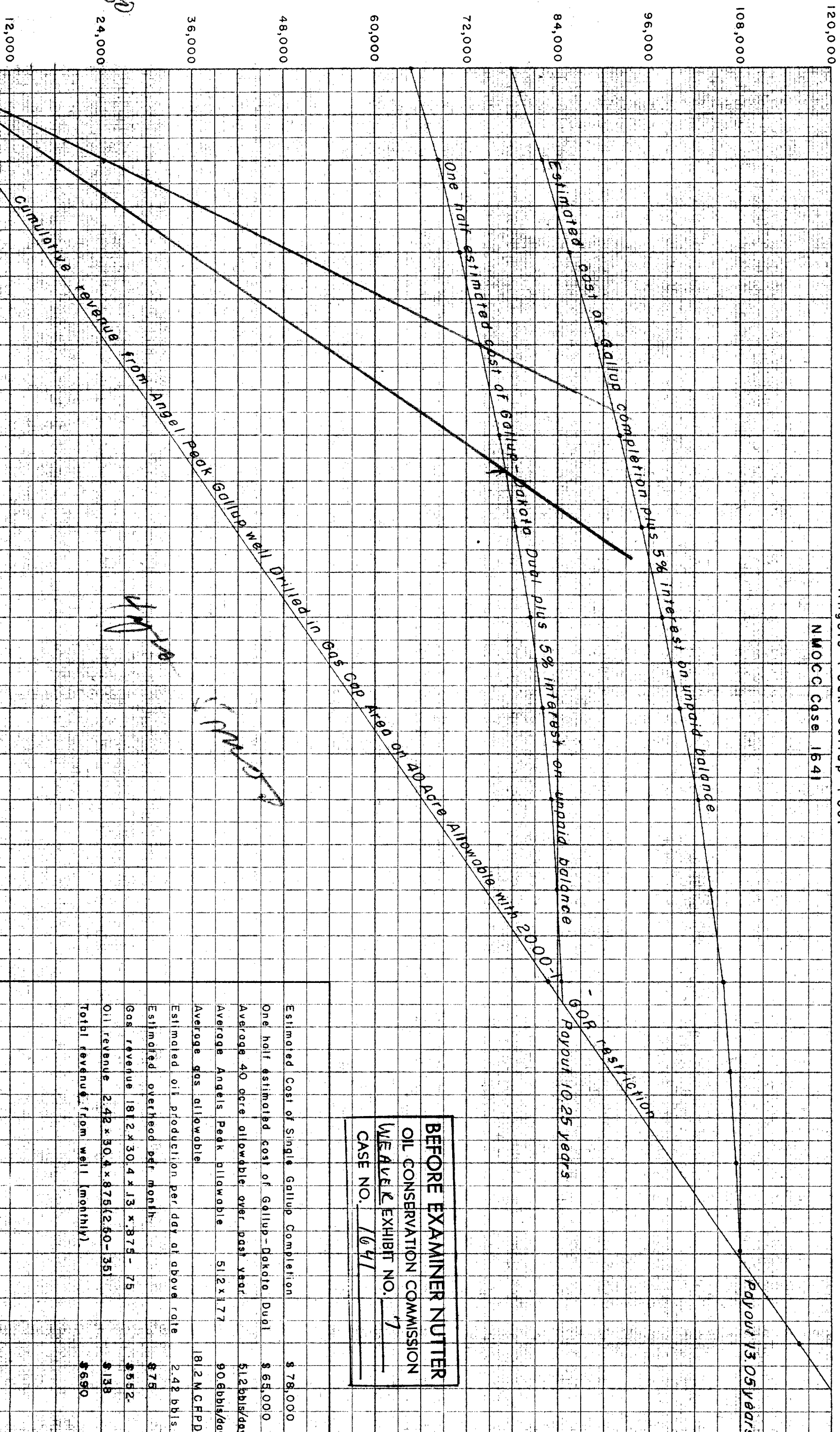
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DOLLARS



W. R. Weaver and A. N. Brown
Angels Peak Gallup Pool

NMCCC Case 1641



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
WEAVER EXHIBIT NO. 7
CASE NO. 1641

Estimated Cost of Single Gallup Completion	\$ 78,000
One half estimated cost of Gallup-Dakota Dual	\$ 65,000
Average 40 acre allowable over past year	\$12.6bbls/day
Average Angels Peak allowable	51.2 x 1.77
Average gas allowable	90.6bbls/day
Estimated oil production per day at above rate	181.2 MCFPD
Estimated overhead per month	2.42 bbls
Gas revenue $181.2 \times 30.4 \times 13 \times .875 - 75$	\$ 75
Oil revenue $2.42 \times 30.4 \times 875 (2.60 - .35)$	\$ 552
Total revenue from well (monthly)	\$ 138
	\$ 690

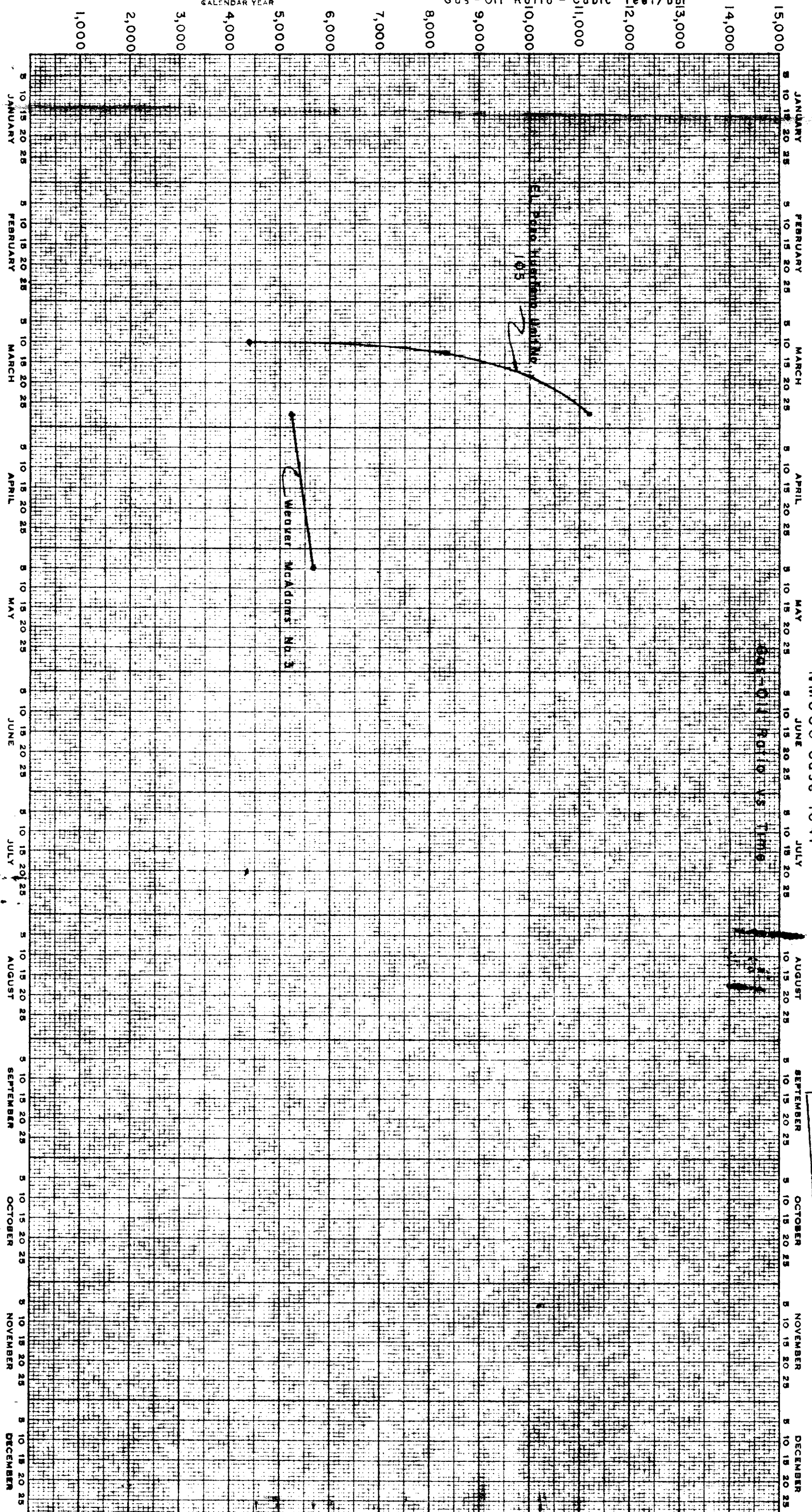
ENGRAVING 334-3, 10 X 10 TO THE HALF INCH.
WHEN ORDERING STATE COLOR, DRAWING OR TRACING PAPER.
MADE IN U. S. A.
100% RAG PAPER

DOLLARS
1641



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Gas - Oil Ratio - Cubic feet/bbl



W. R. Weaver and A. N. Brown
Angels Peak Gallup Pool
NMOCC Case 1641

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
WEAVER EXHIBIT NO. 5
CASE NO. 1641