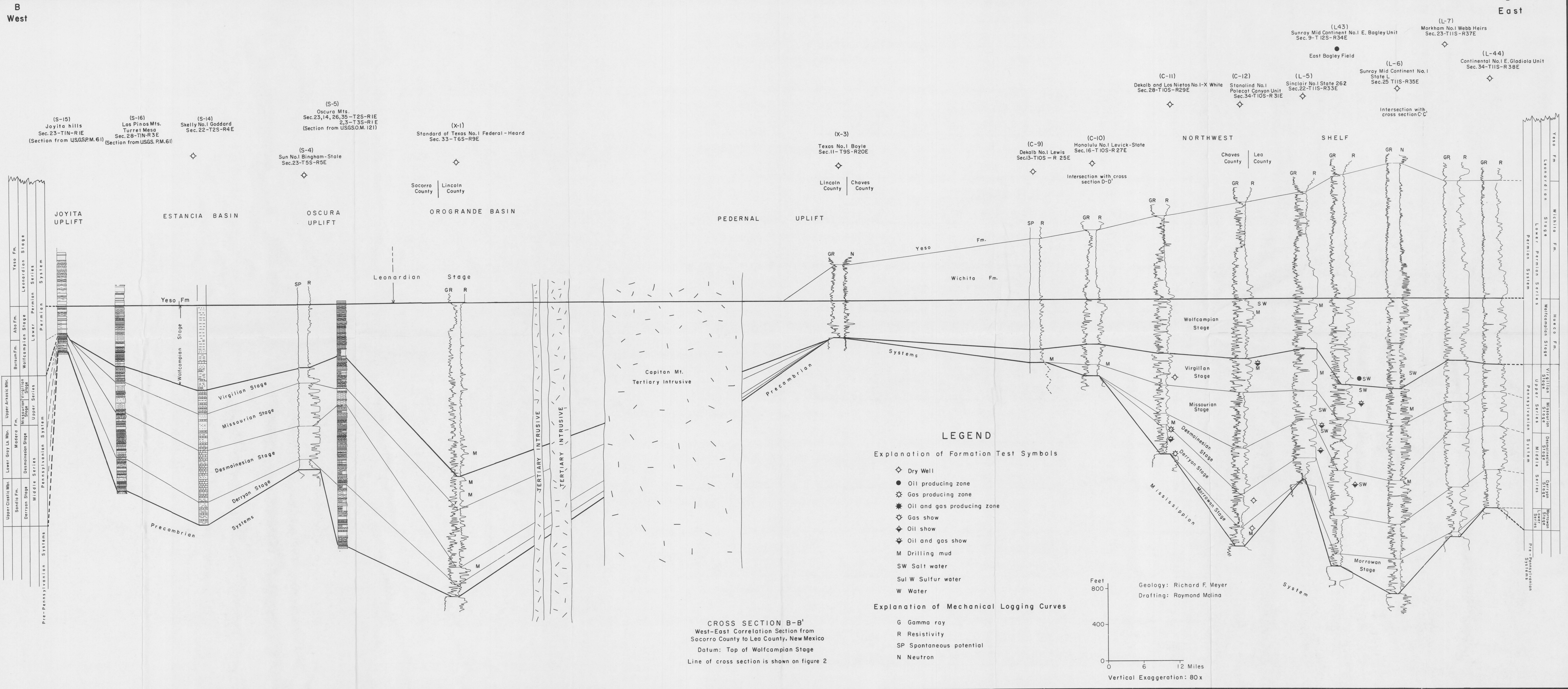
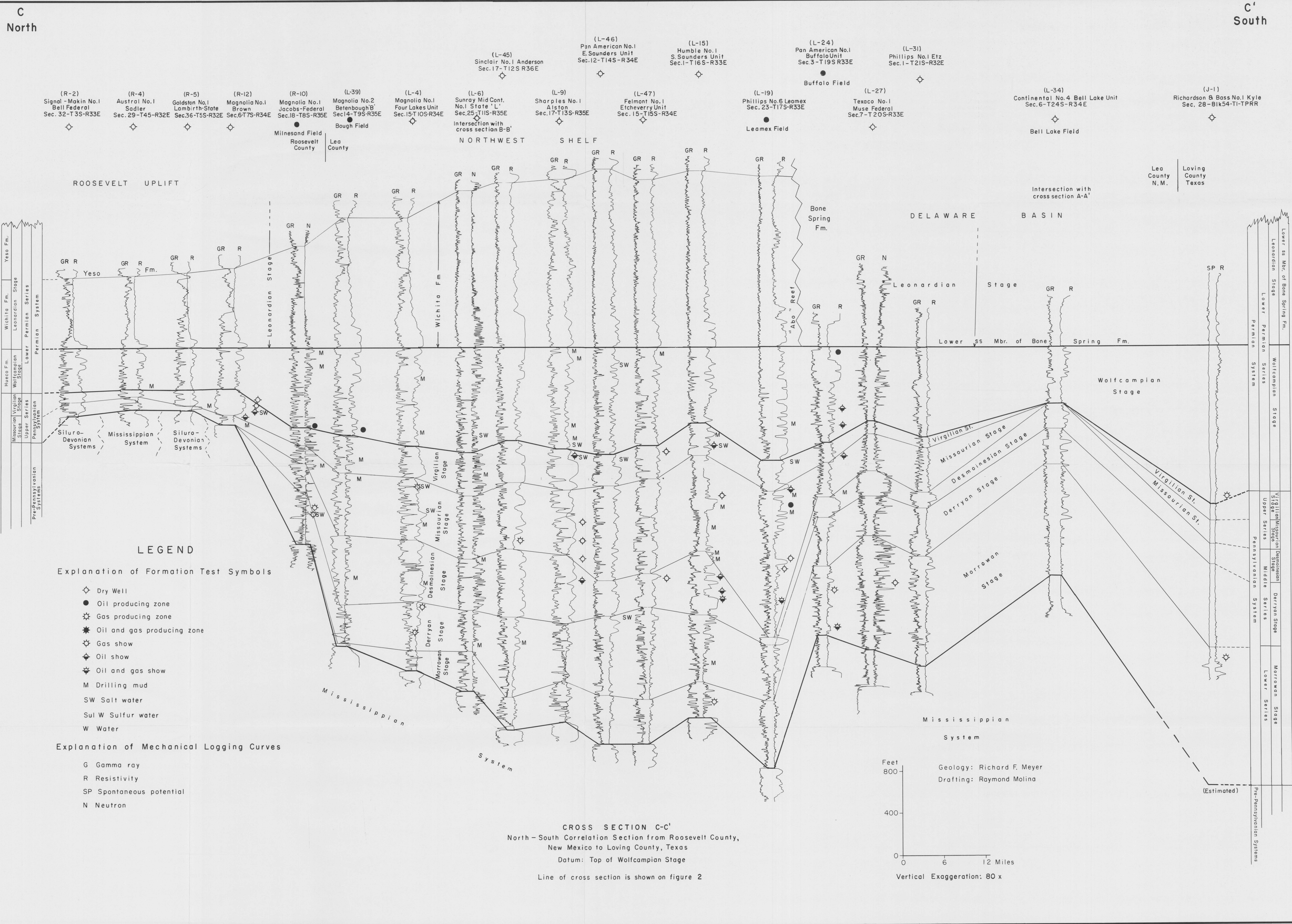


TABLE 4. SELECTED RESERVOIR DATA ON OIL AND NATURAL GAS FIELDS OF PENNSYLVANIA AND WOLFCAMPIAN AGES IN SOUTHEAST NEW MEXICO

FIELD NAME	AGE	COUNTY	DISCOVERY		PROVINCE	LITHOLOGY	TRAP TYPE	PRODUCING STATUS	DRIVE TYPE	DEPTH TO TOP (feet)	NET THICKNESS (feet)	POROSITY (per cent)	PERMEABILITY (md)	GRAVITY OF LIQUID ('API)	TEMPERATURE (°F)	INITIAL PRESSURE (psi)	GAS OIL RATIO	BRINE SALINITY (ppm) ²	PRODUCTION			
			YEAR	METHOD ¹															ESTIMATED ULTIMATE AS OF		CUMULATIVE AS OF	
																			1962	1963	1962	1963
GAS FIELDS																						
Anderson	Morrowan	Eddy	1954	SUS	transition	sandstone	stratigraphic	producing	gas expansion	11039	18	—	1	48	—	5000	24390	0	—	160	6893	
Anderson Ranch West Penn	Morrowan	Lea	1955	SEI	shelf	sandstone	stratigraphic	abandoned	gas expansion	12512	26	—	1	56	—	2990	—	—	—	9	101	
Atoka Penn	Morrowan	Eddy	1957	SUS	transition	sandstone	stratigraphic	producing	gas expansion	9079	31	10	51	56	158	3700	90840	54635	—	62	5666	
Bagley Lower Penn	Desmoinesian	Lea	1951	—	shelf	limestone	structural	producing	gas cap	9805	20	6	1	56	163	3254	0	—	383	8349		
Bagley Upper Penn	Desmoinesian	Lea	1955	RAN	shelf	limestone	structural	producing	gas cap	8600	15	6	—	63	150	2930	28390	0	—	79	5068	
Bandana Point Penn	Morrowan	Eddy	1959	SEI	basin	sandstone	combination	producing	gas expansion	9782	14	8	—	—	125	3200	0	—	0	24		
Black Lake Penn	Morrowan	Lea	1958	SUS	basin	sandstone	stratigraphic	producing	gas expansion	14417	28	5	—	—	187	6603	0	—	0	434		
Bell River Penn	Morrowan	Eddy	1958	SUB	basin	sandstone	stratigraphic	producing	gas expansion	11566	32	—	—	—	—	—	—	—	0	134		
Bhitt Wolfcamp	Wolfcampian	Roosevelt	1959	SEI	shelf	limestone	structural	producing	solution gas	8022	50	8	5	72	135	3020	27000	—	—	1	24	
Buffalo Penn	Morrowan	Lea	1958	SEI	transition	sandstone	stratigraphic	producing	gas expansion	13270	35	7	—	54	170	6330	12500	—	—	74	1463	
Burton Penn North	Morrowan	Eddy	1960	SEI	transition	sandstone	stratigraphic	producing	gas expansion	10886	15	7	—	52	165	5625	14000	—	—	0	62	
Cedar Lake Morrow	Morrowan	Eddy	1961	—	transition	—	—	—	—	11357	26	—	—	59	—	2100	22324	—	—	0	73	
Crawford Penn	Morrowan	Eddy	1957	SUS	basin	sandstone	stratigraphic	producing	gas expansion	11060	39	—	—	42	194	4850	108000	—	—	0	84	
Duffield Penn	Morrowan	Eddy	1952	SEI	transition	sandstone	stratigraphic	producing	gas expansion	8616	56	9	—	54	—	3065	—	—	—	16	4003	
Empire Penn	Morrowan	Eddy	1953	SEI	transition	sandstone	stratigraphic	producing	gas expansion	10102	25	12	—	60	156	3014	44607	—	—	144	8920	
Fren Penn	Morrowan	Eddy	1954	SEI	transition	sandstone	stratigraphic	producing	solution gas	11962	15	9	125	51	160	4970	1180	—	—	132	4836	
Grayburg Atoka Gas	Morrowan	Eddy	1957	—	transition	sandstone	—	producing	gas expansion	10680	80	—	—	56	—	3252	28300	—	—	95	2765	
Harkey Penn	Missourian	Eddy	1958	SUS	basin	limestone	combination	producing	gas expansion	10917	93	—	—	—	160	4000	—	—	—	0	79	
Lea Penn	Morrowan	Lea	1961	SEI	transition	sandstone	structural	producing	gas expansion	13034	23	11	—	55	177	6691	10682	—	—	4	70	
Los Medanos Atoka	Derryan	Eddy	1958	SUS	basin	sandstone	stratigraphic	producing	gas expansion	12920	9	6	—	56	196	8371	86012	—	—	8	734	
Mescalero Penn North	Derryan	Lea	1956	SEI	shelf	sandstone	stratigraphic	producing	gas expansion	10180	11	—	—	50	165	2258	—	0	—	4	238	
Moore Wolfcamp	Wolfcampian	Lea	1952	SEI	shelf	limestone	structural	producing	gas cap	8198	45	8	—	60	—	2850	17050	—	—	63	1827	
Red Lake Penn	Morrowan	Eddy	1956	SEI	transition	sandstone	stratigraphic	producing	gas expansion	9443	22	8	2	53	153	1450	209000	—	—	16	4505	
Salt Lake Atoka South	Morrowan	Lea	1958	SUS	transition	sandstone	stratigraphic	producing	gas expansion	12909	7	7	—	48	—	1681	37175	0	—	29	1048	
Salt Lake Morrow South	Morrowan	Lea	1960	SEI	transition	sandstone	stratigraphic	producing	gas expansion	13242	39	10	50	53	195	500	30930	0	—	19	561	
Shugart Penn	Morrowan	Eddy	1958	OWO	transition	sandstone	stratigraphic	producing	gas expansion	10912	49	9	3	60	143	4855	22300	—	—	142	3774	
Tonto Penn West	Morrowan	Lea	1960	SEI	transition	sandstone	structural	producing	gas expansion	13325	53	10	—	—	—	640	60000	—	—	2	113	
TV	Morrowan	Chaves	1960	OWO	shelf	sandstone	stratigraphic	producing	solution gas	12860	33	9	15	51	190	4800	15000	—	—	24	437	
Welch Penn	Morrowan	Eddy	1956	SEI	basin	limestone	stratigraphic	producing	solution gas	12502	6	8	—	58	180	3551	—	—	0	769		
White City Penn	Missourian	Eddy	1960	SEI	basin	limestone	combination	producing	gas expansion	9806	10	7	—	58	148	4384	—	—	0	151		
Continental Bell Lake Unit 2	Derryan	Lea	1954	SEI	basin	—	—	shut-in	gas expansion	12690	—	6	—	50	178	6092	—	—	—	15	164	
El Paso Mescalero Unit 1	Morrowan	Lea	1961	SEI	transition	—	—	abandoned	gas expansion	13160	37	—	—	—	—	4052	7224	—	—	1	56	
Humble Elliott Federal 1	Morrowan	Lea	1952	SEI	shelf	sandstone	structural	abandoned	gas expansion	12880	30	—	—	51	—	400	17686	—	—	0	83	
Lawton State 2	Derryan	Lea	1952	SEI	shelf	sandstone	structural	abandoned	gas expansion	11342	40	—	—	53	150	1600	11700	—	—	3	38	
Pan American State AD 1	Morrowan	Eddy	1954	SEI	transition	sandstone	structural	abandoned	gas expansion	11060	24	—	—	48	—	4380	—	—	—	1	140	
Western Natural Gas Grambling State 1	Morrowan	Lea	1954	SEI	shelf	sandstone	combination	producing	gas expansion	12310	40	—	—	58	160	6792	20000	—	—	16	758	
1504																				65107		
OIL FIELDS																						
Allison Penn	Wolfcampian	Lea	1954	SEI	shelf	limestone	combination	producing	solution gas	9673	17	9	200	48	155	3363	1346	119447	27349	16031	9923	
Anderson Ranch Penn	Virgilian	Lea	1954	OWO	shelf	dolomite	structural	abandoned	water	12362	10	—	—	38	—	—	0	—	—	0	0	
Anderson Ranch Wolfcamp	Virgilian	Lea	1953	SEI	shelf	limestone	structural	producing	solution gas	9664	50	10	114	42	140	3731	313	—	8881	4405	4541	
Anderson Ranch Penn East	Virgilian	Lea	1957	SUS	shelf	limestone	structural	abandoned	solution gas	10960	24	4	1	40	152	60	1732	—	10	20	17	
Apache Springs Wolfcamp	Wolfcampian	Chaves	1955	SUS	shelf	limestone	stratigraphic	abandoned	water	7929	7	8	1	42	134	1900	1094	—	5	5	0	
Bagley Lower Penn North	Virgilian	Lea	1949	SEI	shelf	limestone	combination	producing	solution gas	9001	45	7	1	47	148	3290	2700	67098	3334	3238	9598	
Bagley East Wolfcamp	Desmoinesian	Lea	1957	SUS	shelf	limestone	stratigraphic	producing	solution gas	10058	20	6	—	53	145	3775	3091	—	175	120	313	
Baum Wolfcamp	Wolfcampian	Lea	1955	SEI	shelf	limestone	combination	abandoned	solution gas	9994	17	8	1	43	129	3680	1200	—	19	19	11	
Brough Permo Penn	Virgilian	Lea	1955	SUB	shelf	limestone	combination	producing	solution gas	9940	20	8	—	43	150	150	1141	—	181	116	128	
Bronco Wolfcamp	Wolfcampian	Lea	1949	SEI	shelf	limestone	combination	shut-in	solution gas	9615	20	13	30	44	160	3588	1604	109594	4500	4505	6340	
Buffalo Wolfcamp	Virgilian	Lea	1953	SEI	shelf	limestone	combination	producing	solution gas	9600	25	13	45	41	138	3640	1037	—	1795	742	421	
Canyon Wolfcamp	Wolfcampian	Eddy	1954	SEI	transition	dolomite	stratigraphic	producing	solution gas	10597	28	8	—	38	155	3700	1052	—	103	48	37	
Caprock Wolfcamp East	Wolfcampian	Eddy	1959	SEI	transition	dolomite	stratigraphic	producing	water	5741	12	9	—	45	—	300	—	—	—	42	23	0
Caprock East Penn	Wolfcampian	Lea	1953	SUB	shelf	limestone	combination	producing	solution gas	8400	13	10	—	44	127	2895	1190	—	630	263	396	
Cass Penn	Derryan	Lea	1952	SUB	shelf	limestone	combination	abandoned	water	10000	9	8	—	48	154	1099	5060	—	23	23	0	
Caudill Penn	Desmoinesian	Lea	1944	SUS	platform	limestone	structural	producing	solution gas	7700	35	11	—	40	145	3146	196	39374	3855	1931	1657	
Caudill Wolfcamp	Missourian	Lea	1951	SEI	shelf	limestone	structural	abandoned	water	11440	25	8	—	45	—	40	930	—	2	0	0	
Cedar Lake Atoka	Wolfcampian	Eddy	1956	OWO	shelf	limestone	structural	producing	solution gas	10292	22	8	1	42	155	3020	930	—	1627	1309	854	
Chambers Wolfcamp	Missourian	Lea	1961	SEI	transition	dolomite	—	producing	solution gas	10919	8	7	—	42	—	—	1894	—	41	12	18	
Crossroads Penn	Wolfcampian	Lea	1955	SEI	shelf	limestone	structural	producing	solution gas	10581	34	6	36	44	178	3827	1195	—	327	157	235	
Dean Permo Penn	Virgilian	Lea	1949	SEI	shelf	limestone	combination	producing	solution gas	9750	12	7	—	49	164	—	1663	119909	2298	2006	2489	
Denton Wolfcamp	Desmoinesian	Lea	1955	OWO	shelf	limestone	combination	producing	solution gas	11560	38	5	3	44	169	4134	1655	—	6366	4654	8512	
Denton Wolfcamp South	Wolfcampian	Lea	1960	SUS	shelf	limestone	structural	producing	solution gas	9395	53	10	13	45	154	3820	164	103705	38461	22815	8768	
Echol Wolfcamp	Wolfcampian	Lea	1960	SUB	shelf	limestone	—	abandoned	solution gas	10000	8	9	—	47	147	80	655	—	58	92	12	
Eidson Penn	Derryan	Lea	1957	SUS	shelf	limestone	combination	abandoned	solution gas	11504	40	7	—	43	161	75	2509	—	88	27	69	
Empire Wolfcamp	Wolfcampian	Eddy	1954	SEI	transition	limestone	stratigraphic	producing	solution gas	9446	10	9	—	42	145	2560	584	—	33	11	4</	





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