

TABLE 21 A

UNITIZATION PARAMETERS - WELLS, PRODUCTION AND GAS CAP VOLUMETRICS

TR NO.	TRACT NAME	NUMBER OF WELLS 1/1/77			CUMULATIVE *			OIL			GAS			GRAYBURG UPPER		GRAYBURG LWR.		GRAYBURG TOTAL		S.A. ZONE I		UNIT TOTAL		TR NO.
		NO.	USEABLE	NO.	%	NO.	%	BBLS	%	BBLS	%	MCF	%	MCF	%	MCF	%	MCF	%	MCF	%	MCF	%	
1	GETTY - STATE B	2.00	82987	2.00	90090	59348	03554	1927	07032	1202	01591	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	1
2	ABERADA HESS-STATE A	2.00	82987	1.00	45045	130274	02817	1258	07261	1258	01179	0	00000	5348	01179	0	00000	5348	01179	0	00000	5348	01179	2
3	GULF - LEA FO STATE	1.00	4194	1.00	45045	69918	04186	1381	05039	4246	05618	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	3
4	TEXAS PACIFIC-STATE A	2.00	82987	2.00	90090	192123	11866	4527	14202	39120	05126	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	4
5	ESTES ENGR. - STATE	1.00	4194	1.00	45045	75154	04500	3681	13432	39134	04138	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	5
6	CONTINENTAL - STATE B	1.00	4194	1.00	45045	1703730	102014	15090	05064	102528	035695	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	6
7	SHELL - RICE	4.00	218963	4.00	180180	103730	108951	15090	05064	102528	035695	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	7
8	ABERADA HESS - M. HARRIN	4.00	165975	4.00	45045	1774997	106281	13604	04962	130645	073135	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	8
9	GULF - DAN HARTIN	1.00	4194	1.00	45045	71881	04305	1681	04134	2242	03328	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	9
10	NORACON - STATE I	1.00	4194	1.00	45045	61888	03706	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	10
11	CHEVRON - STATE I	1.00	4194	1.00	45045	291241	17439	1145	04251	2149	02817	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	11
12	GETTYSKILL-STATE	1.00	4194	1.00	45045	42923	02570	3102	11538	43477	05759	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	12
13	ANTHEIL-MORNS COE TONS	1.00	4194	1.00	45045	502021	03059	4302	11538	43477	05759	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	13
14	WISER-GRUBBS	1.00	4194	1.00	45045	502021	03059	4302	11538	43477	05759	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	14
15	WISER-GRUBBS	1.00	4194	1.00	45045	573247	03424	8816	32170	18127	02384	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	15
16	GULF - M. D. GRUBBS	1.00	4194	1.00	45045	1427214	08461	4382	04302	20426	02024	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	16
17	C. M. SWEET - MCKINLEY	1.00	4194	1.00	45045	96732	05792	1126	04109	2569	03405	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	17
18	GETTYSKILL-STATE	1.00	4194	1.00	45045	404008	04211	1154	04211	5435	04271	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	18
19	CHEVRON - M. D. MCKINLEY	2.00	82987	2.00	90090	1080200	04319	15031	05849	25580	03896	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	19
20	C. M. SWEET - GRUBBS	2.00	82987	2.00	90090	293234	017558	112	04049	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	20
21	BILL SWEET-ROBERTS	1.00	4194	1.00	45045	373039	02336	1112	04058	3110	04115	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	21
22	BILL SWEET-ROBERTS	1.00	4194	1.00	45045	4495542	02617	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	22
23	ATLANTIC RICH-GRUBBS	1.00	4194	1.00	45045	865576	051828	3216	11735	20072	02659	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	23
24	SHELL - MCKINLEY	5.00	202469	5.00	180180	202469	023867	53070	143656	113785	158500	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	24
25	CITTY - BOONE HARTIN	4.00	165975	4.00	180180	3209049	192149	15077	05517	65683	08912	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	25
26	CITTY SERVICE - HARRIN	5.00	202469	5.00	225226	3482516	026127	23921	1402068	33003	049159	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	26
27	SHELL - MCKINLEY	9.00	373444	9.00	405406	2982620	055891	186919	0408003	289879	048369	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	27
28	GULF-GRAMAN STATE	5.00	202469	5.00	225226	3482516	026127	23921	1402068	33003	049159	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	28
29	SHELL - STATE	2.00	82987	2.00	90090	1079156	04617	30411	110972	89983	019096	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	29
30	ABERADA HESS-STATE	2.00	82987	2.00	90090	1025566	041408	10245	037385	33592	044339	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	30
31	TEXAS PACIFIC-STATE	4.00	165975	4.00	180180	4245573	025954	116644	0425641	175007	0191950	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	31
32	SAMEDAN - STATE	4.00	165975	4.00	180180	3483030	028563	111286	0406090	153107	0202437	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	32
33	C. M. SWEET - STATE	3.00	165975	3.00	135135	643367	03623	8527	031116	1117846	050750	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	33
34	SHELL - STATE	2.00	82987	2.00	90090	132450	02631	1245	04348	19411	025939	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	34
35	TEXAS PACIFIC-STATE	4.00	165975	4.00	180180	299905	017957	4665	17023	15187	020096	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	35
36	CAC OPERA - SHIP	1.00	4194	1.00	45045	18532	01110	789	02914	42	000056	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	36
37	JOHN A YATES-SHELL	3.00	165975	3.00	135135	42335	025349	5824	02152	29571	039128	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	37
38	WISER - STATE	1.00	4194	1.00	45045	10283	006415	284	01034	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	38
39	GETTYSKILL - MORFE	1.00	4194	1.00	45045	88198	05281	1802	006576	5070	006039	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	39
40	CONTINENTAL - STATE	2.00	82987	2.00	90090	372390	055557	5052	018553	8240	010354	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	40
41	SAMEDAN - STATE	2.00	82987	2.00	90090	393201	023544	3074	11217	13285	017579	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	41
42	TEXACO - M. D. B. C.	4.00	165975	4.00	180180	4426336	028029	82971	033257	286141	0328439	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	42
43	EXXON - M. D. STATE	6.00	270271	6.00	3366180	203353	036878	36878	134570	459975	047861	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	43
44	ABERADA - M. D. MCKINLEY	5.00	202469	5.00	180180	5225113	0312845	8742	032054	152411	0201471	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	44
45	GETTY - M. D. MCKINLEY	5.00	202469	5.00	225226	3381702	032240	88127	0321581	246112	0325556	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	45
46	MARATHON-STATE	3.00	165975	3.00	180180	3994627	0239186	44500	0169481	107583	0123154	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	46
47	EXXON-ROBERTS	4.00	165975	4.00	3353150	4126488	054928	105400	0364411	335805	0444338	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	47
48	EXXON-ROBERTS	1.00	4194	1.00	45045	936400	05069	16198	059108	19385	02550	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	48
49	ABERADA - STATE	4.00	165975	4.00	180180	4921082	024640	43123	0157541	200237	0264654	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	49
50	EXXON - STATE	1.00	4194	1.00	45045	1162183	059589	3905	14250	32741	033243	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	50
51	CONTINENTAL-STATE	2.00	82987	2.00	90090	3783702	024556	46158	049130	155231	033521	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	51
52	GETTY - STATE	2.00	82987	2.00	90090	2706407	026051	24984	091168	166164	0219869	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	52
53	CHEVRON - STATE	2.00	82987	2.00	90090	2163965	029572	5872	042933	21547	028511	0	00000	0	00000	0	00000	0	00000	0	00000	0	00000	53
54	ATLANTIC - M. D. GRUBBS	4.00	165975	4.00	180180	3197125	019035	34014	02411															

TABLE 21 B
UNITIZATION PARAMETERS - WELLS, PRODUCTION AND GAS CAP VOLUMETRICS

WID NO.	WORKING INTEREST OWNER	NO. OF WELLS 1/1/77			CUMULATIVE OIL PROD. 1/1/77			CURRENT PROD., YEAR 1976			ORIGINAL GAS CAP GAS IN PLACE						UNIT TOTAL		WID NO.		
		USEABLE		ACTIVE	OIL PROD. 1/1/77		GAS		OIL		GB UPPER		GB LOWER		GB TOTAL		S. A. ZONE I				
		NO.	%		BBLs.	%	BBLs.	%	MCF	%	BBLs.	%	MCF	%	MCF	%	MCF	%		MCF	%
1	AMERADA HESS CORP.	20.00	8.29875	14.00	6.30631	15768495	9.45367	187029	6.82461	485590	6.42535	5036480	11.10413	300993	12.25555	5046573	11.11037	1225901	14.23994	6292474	11.60729
2	AMOCO PRODUCTION CO.	2.00	8.2887	2.00	6.00800	3327604	1.33270	54964	2.00538	40294	0.23215	28215	1.94248	0	0.00000	881137	1.93222	5827531	11.47047	1888468	3.44700
3	JANFSON A & A	12	0.4979	12	0.6405	8807	0.0527	431	0.1573	3634	0.04809	24561	0.05419	0	0.00000	24561	0.05390	0	0.00000	24561	0.05394
4	ANDERSON EST. - AMER. O.	12	0.4979	12	0.6405	8807	0.0527	431	0.1573	3634	0.04809	24561	0.05419	0	0.00000	24561	0.05390	0	0.00000	24561	0.05394
5	ANDERSON, W D AND SONS	23	0.9544	23	10.360	17614	0.1055	863	0.3149	7269	0.09618	49162	1.0839	0	0.00000	49162	1.0781	0	0.00000	49162	0.9069
6	ANDERSON, J M	23	0.9544	23	10.360	17614	0.1055	863	0.3149	7269	0.09618	49162	1.0839	0	0.00000	49162	1.0781	0	0.00000	49162	0.9069
7	ATLANTIC RICHFIELD CO.	5.00	2.07469	5.00	2.25725	4052701	2.42663	37230	1.35855	221262	2.92775	76102	1.6779	0	0.00000	76102	1.6688	0	0.00000	76102	1.9038
8	AVRON, R	159	2.4481	159	2.45577	119354	0.2146	2275	0.8302	4723	0.06299	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
9	CAC OPERATING CO.	1.00	0.41994	1.00	0.45075	18532	0.1110	799	0.2916	42	0.0056	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
10	CHURCH & DWIGHT	5.00	2.02462	5.00	1.80130	3634053	2.11256	47203	3.42282	42127	1.20933	275440	1.20933	0	0.00000	275440	1.20933	223408	0.40274	1498448	2.4494
11	CITIES SERVICE OIL CO.	10.38	4.30705	8.38	3.77478	8043921	4.82843	94121	3.43454	60897	1.07043	3018275	6.65454	5482	2.23221	3023757	6.63072	0	0.00000	3023757	5.57771
12	COURTNEY, MARY DANIEL	0.04	0.2490	0.04	0.2733	35828	0.2145	551	0.2011	1133	0.04199	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
13	CRILLER, HERMAN L.	22.00	9.12963	20.00	9.00901	15913814	9.58870	286024	9.34248	652536	8.63318	5838640	12.86772	29414	11.97707	5864054	12.86792	1635768	19.00007	7503922	13.84781
14	CRILLER, HERMAN L.	0.09	0.3734	0.09	0.4054	53742	0.3218	826	0.3014	1439	0.22718	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
15	CUSACK, J. P.	0.76	3.1535	0.76	3.4734	431060	2.5810	8986	3.2791	28090	0.37169	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
16	CUSACK, J. P.	1.00	0.41994	1.00	0.45075	18532	0.1110	799	0.2916	42	0.0056	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
17	CUSACK, MICHAEL F.	1.00	0.41994	1.00	0.45075	18532	0.1110	799	0.2916	42	0.0056	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
18	DELEA, INC. (CANTON)	1.19	0.49378	1.19	0.53604	68334	0.0492	4128	0.15244	48245	0.16388	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
19	DUNLAVY, J. M.	0.05	0.2075	0.05	0.2252	3370	0.0202	79	0.0288	129	0.0171	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
20	ESTES, RUSSELL G.	0.04	0.2490	0.04	0.2733	4482	0.0281	230	0.0839	1938	0.25564	13110	0.2876	0	0.00000	13110	0.2876	402759	0.40276	13110	0.2418
21	EXXON COMPANY - U.S.A.	15.75	6.53527	14.75	6.64414	14379485	8.60999	181405	5.88977	77217	9.42256	3850445	8.48927	23745	9.64871	3874190	8.49562	402759	4.67825	4276949	7.88939
22	FIRST, ROSEMARY CURRANT	0.08	0.3334	0.08	0.3664	6740	0.0404	188	0.0657	257	0.0340	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
23	FORREST, C. C.	0.08	0.3334	0.08	0.3664	6740	0.0404	188	0.0657	257	0.0340	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
24	FORREST, L. L.	0.07	0.2905	0.07	0.3163	44434	0.3858	2059	0.7513	2833	0.3794	8863	0.1994	0	0.00000	8863	0.1994	0	0.00000	8863	0.1635
25	GETTY OIL COMPANY	21.25	8.81743	21.25	9.57207	16963446	10.15719	236623	8.63452	693187	9.17228	3112093	6.86139	22141	9.01558	3134234	6.87299	16175	1.8748	3150409	5.81134
26	GULF ENERGY & MINERALS	34.00	14.13278	31.00	13.59099	19244016	11.52273	255278	10.80043	1081305	13.10252	7353635	16.21292	63786	25.97298	7417450	16.21292	1208859	14.07288	8242372	15.91248
27	HEADLEY, KENNETH NOEL	0.29	0.9129	0.22	0.9910	117119	0.0713	1365	0.0981	7357	0.07735	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
28	HUBBARD, RUBY	0.04	0.2490	0.04	0.2733	35828	0.2145	551	0.2011	1133	0.04199	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
29	JUDSON, RUBY NAWDA CORP.	0.01	0.0415	0.01	0.0451	7166	0.0429	110	0.0401	227	0.0300	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
30	KELTZA, A. A.	1.16	0.47718	1.15	0.51802	1001371	0.59559	31955	1.16252	44028	0.58258	134114	0.29410	0	0.00000	134114	0.29410	0	0.00000	134114	0.24730
31	LAFLIN, GEORGE P.	0.05	0.2075	0.05	0.2252	3370	0.0202	79	0.0288	129	0.0171	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
32	LOPEZ, M. RALPH	0.25	1.0373	0.25	1.1241	33881	0.2029	1355	0.0944	6357	0.08412	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
33	MARATHON OIL COMPANY	8.00	3.31950	8.00	3.60380	882553	5.32459	79953	2.91754	253627	3.35521	3271114	7.17315	0	0.00000	3271114	7.17315	190823	2.21850	3461937	6.39600
34	MCCARTHY, KATHLEEN L. C.	0.01	0.0415	0.01	0.0451	7166	0.0429	110	0.0401	227	0.0300	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
35	MCCARTHY, K. D.	0.12	0.4979	0.12	0.5405	11397	0.0682	372	0.1357	1383	0.1810	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
36	MCCARTHY, MARGARET M.	0.18	0.7362	0.18	0.8108	35806	0.2146	183	0.2352	1517	0.1875	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
37	MCCARTHY, ROBERT L.	0.09	0.3734	0.09	0.4054	17903	0.1072	341	0.1244	708	0.0937	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000
38	MCCARTHY, ROBERT L.	0.09	0.3734	0.09	0.4054	17903	0.1072	341	0.1244	708	0.0937	0	0.00000	0	0.00000	0	0.00000	0	0.00000		

TABLE 22 A
UNITIZATION PARAMETERS - ORIGINAL OIL IN PLACE

TR. NO.	TRACT NAME	PRODUCTIVE ACRES		UPPER ZONE		LOWER ZONE		TOTALS		BASAL GRAYBURG				SAN ANDRES				TOTALS		UNIT TOTALS		TR. NO.
		ACRES	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	
1	GETTY - STATE 11	123.40	1.45467	67087	1.21982	53267	0.81076	779124	1.17617	11916	0.00694	139830	0.00000	0	0.00000	0	0.00000	11916	0.00000	736040	1.2733	1
2	AMERADA MESS - STATE 11	134.40	1.47230	1041704	1.48941	24470	0.00289	1048174	1.37350	139830	0.00184	0	0.00000	0	0.00000	0	0.00000	143368	0.00000	211544	0.20559	2
3	GULF - LEA CO STATE	40.00	0.51399	393494	0.71631	39225	0.59703	433169	0.70358	0	0.00000	0	0.00000	0	0.00000	0	0.00000	433169	0.00000	433169	0.07494	3
4	TEXAS PACIFIC - STATE 11	20.00	1.02229	1023234	1.02229	0	0.00000	1023234	1.02229	0	0.00000	0	0.00000	0	0.00000	0	0.00000	1023234	0.00000	1023234	0.22822	4
5	ESTES ENG - STATE 11	40.00	0.51399	40331	0.73332	37499	0.54537	70180	1.13991	521338	0.21302	0	0.00000	0	0.00000	0	0.00000	86352	0.00000	1508152	0.26091	5
6	CONTEINENTAL - STATE 11	269.40	1.43097	143097	2.44146	1126513	1.71767	2589420	4.16717	3210742	1.87081	2241	0.00000	0	0.00000	0	0.00000	4709383	0.00000	9248403	1.60347	6
7	SHELL - RICE	54.40	0.70417	65700	1.19446	174871	0.61166	280571	0.9075	3137335	1.82804	3239931	2.15734	5711346	3.67519	0	0.00000	12079112	0.00000	2313874	2.13127	7
8	AMERADA MESS - STATE 11	198.40	1.90178	229243	0.30880	20288	0.00000	249631	0.00530	2975142	1.23354	3692449	2.04532	4900434	3.11535	0	0.00000	10968245	0.00000	11212724	1.94064	8
9	GULF - DAY MARCO	318.40	4.09781	163176	2.97015	0	0.00000	1633474	2.85319	4089474	2.38282	2335247	1.55953	1654037	1.06441	0	0.00000	8078778	0.00000	9712254	1.68019	9
10	MORANCO - STATE 11	41.80	0.78543	203704	0.34130	0	0.00000	203704	0.34130	51017	0.02373	0	0.00000	0	0.00000	0	0.00000	52504	0.00000	242210	0.0436	10
11	CHEVRON - STATE 11	80.40	1.02799	326830	0.53391	0	0.00000	326830	0.53391	281619	0.16407	0	0.00000	0	0.00000	0	0.00000	28254	0.00000	652884	1.12755	11
12	GETTYSKELLIE - STATE 11	80.40	1.02799	402190	0.73130	0	0.00000	402190	0.73130	753007	0.43878	0	0.00000	0	0.00000	0	0.00000	889384	0.00000	1391476	2.23256	12
13	AMERADA MESS - STATE 11	40.00	1.02799	182819	0.33242	0	0.00000	182819	0.33242	69403	0.04044	0	0.00000	0	0.00000	0	0.00000	69403	0.00000	252222	0.04363	13
14	WISER - AMERADA	40.00	0.51399	94217	0.17131	0	0.00000	94217	0.17131	14378	0.08378	0	0.00000	0	0.00000	0	0.00000	14378	0.00000	238004	0.04117	14
15	WISER - AMERADA	40.00	0.51399	162350	0.29520	0	0.00000	162350	0.29520	586505	0.31174	0	0.00000	0	0.00000	0	0.00000	586505	0.00000	748855	1.29555	15
16	GULF - AMERADA	160.40	2.05597	294485	0.44825	0	0.00000	294485	0.44825	1228481	1.35744	0	0.00000	0	0.00000	0	0.00000	2410302	0.00000	9204787	1.56474	16
17	C.H. SWEET - AMERADA	160.40	2.05597	595770	1.08329	0	0.00000	595770	1.08329	1032621	0.60168	0	0.00000	0	0.00000	0	0.00000	1103653	0.00000	1699423	2.94007	17
18	GETTYSKELLIE - AMERADA	80.40	1.02799	480850	0.87433	0	0.00000	480850	0.87433	1728829	1.03044	0	0.00000	0	0.00000	0	0.00000	2243427	0.00000	3724277	6.71129	18
19	CHEVRON - AMERADA	40.00	1.02799	533369	0.96883	0	0.00000	533369	0.96883	2136553	1.24491	0	0.00000	0	0.00000	0	0.00000	3464988	0.00000	4000357	6.9205	19
20	C.H. SWEET - AMERADA	40.00	1.02799	224752	0.40847	0	0.00000	224752	0.40847	842519	0.49091	0	0.00000	0	0.00000	0	0.00000	842519	0.00000	1047271	1.8643	20
21	BILL SWEET - AMERADA	40.00	0.51399	269491	0.47811	0	0.00000	269491	0.47811	949579	0.56339	0	0.00000	0	0.00000	0	0.00000	1109820	0.00000	1372924	2.3751	21
22	BILL SWEET - AMERADA	40.00	0.51399	303418	0.54888	0	0.00000	303418	0.54888	1081249	0.18139	0	0.00000	0	0.00000	0	0.00000	1218020	0.00000	1548438	2.6260	22
23	ATLANTIC RICH - AMERADA	40.00	0.51399	330782	0.60146	0	0.00000	330782	0.60146	1205593	0.70247	0	0.00000	0	0.00000	0	0.00000	1510848	0.00000	1841730	3.1861	23
24	SHELL - AMERADA	160.40	2.05597	1379401	2.50453	9872	0.01526	1387273	2.52330	3974720	2.23777	0	0.00000	0	0.00000	0	0.00000	6775126	0.00000	9982398	1.54667	24
25	GETTY - AMERADA	160.40	2.05597	1279980	2.30612	0	0.00000	1279980	2.30612	4083641	2.23777	0	0.00000	0	0.00000	0	0.00000	8690699	0.00000	9986679	1.72801	25
26	CITIES SERVICE - AMERADA	80.40	1.02799	133769	0.25414	1498	0.00000	182263	0.24732	471077	0.478515	0	0.00000	0	0.00000	0	0.00000	1541762	0.00000	1564984	2.69354	26
27	SHELL - AMERADA	267.40	3.43348	131293	2.37929	15793	0.00234	1470814	2.36899	8212471	4.78515	0	0.00000	0	0.00000	0	0.00000	22110859	0.00000	23581675	4.07956	27
28	GULF - AMERADA	55.40	0.71524	61121	0.11659	84520	0.00148	148431	0.24143	3910032	2.27027	5152844	3.44117	6360862	1.11772	0	0.00000	15523758	0.00000	1672239	2.71128	28
29	SHELL - STATE 11	67.20	0.86933	264462	0.48451	77163	0.11748	343625	0.55814	1456953	0.94993	0	0.00000	0	0.00000	0	0.00000	5739370	0.00000	6082995	1.05239	29
30	AMERADA MESS - STATE 11	170.40	2.19144	129892	0.21944	143951	0.19709	1211545	0.19709	143951	0.19709	0	0.00000	0	0.00000	0	0.00000	3489937	0.00000	4340075	2.5082	30
31	TEXAS PACIFIC - STATE 11	170.40	2.19144	549492	0.96441	15420	0.00000	783912	1.26952	5106316	2.97514	0	0.00000	0	0.00000	0	0.00000	13568743	0.00000	14362655	2.48463	31
32	SAMEAN - STATE 11	160.40	2.05597	175851	0.31992	50132	0.00000	2688094	0.431883	3588861	2.09112	0	0.00000	0	0.00000	0	0.00000	7430560	0.00000	10089494	1.74958	32
33	C.H. SWEET - STATE 11	120.40	1.54198	176450	0.37949	31661	0.00000	2198211	0.53253	1126441	0.65636	0	0.00000	0	0.00000	0	0.00000	2074317	0.00000	2421258	2.72875	33
34	SHELL - STATE 11	80.40	1.02799	829294	1.50781	354041	0.54342	1184334	1.82492	311449	0.18158	0	0.00000	0	0.00000	0	0.00000	3517954	0.00000	1544289	2.32114	34
35	TEXAS PACIFIC - STATE 11	280.40	3.08396	1607994	2.91437	175129	0.26549	1779425	2.86782	60558	0.00000	0	0.00000	0	0.00000	0	0.00000	60558	0.00000	1838483	3.1809	35
36	SEC OPER. - STATE 11	75.40	0.96631	181674	0.29434	0	0.00000	181674	0.29434	307728	0.53728	0	0.00000	0	0.00000	0	0.00000	2983727	0.00000	3482398	1.54667	36
37	JOHN A. YATES - STATE 11	120.40	1.54198	1947023	3.35791	158022	0.20421	2004752	3.25634	545310	0.00000	0	0.00000	0	0.00000	0	0.00000	550523	0.00000	255275	0.49208	37
38	WISER - STATE 11	40.00	0.51399	444073	0.80191	819	0.00000	444073	0.80191	2327	0.00136	0	0.00000	0	0.00000	0	0.00000	103430	0.00000	995565	1.7223	38
39	GETTYSKELLIE - AMERADA	79.40	1.02799	860697	1.57482	26043	0.00000	860697	1.57482	103430	0.00136	0	0.00000	0	0.00000	0	0.00000	2163415	0.00000	3419218	2.6211	39
40	CONTEINENTAL - STATE 11	80.40	1.02799	1206635	2.19221	244168	0.37639	1498003	2.35486	1433359	0.83536	0	0.00000	0	0.00000	0	0.00000	810075	0.00000	982225	1.34974	40
41	SAMEAN - STATE 11	160.40	2.05597	1067614	1.94129	143951	0.19709	1211545	0.19709	4678035	2.272578	0	0.00000	0	0.00000	0	0.00000	8749629	0.00000	9982225	1.72289	41
42	TEXAS PACIFIC - STATE 11	170.40	2.19144	165432	0.25983	165432	0.25983	1295494	0.20026	3623360	2.01743	0	0.00000	0	0.00000	0	0.00000	4622588	0.00000	4376425	1.44900	42
43	FXON - STATE 11	297.70	3.92540	332519	0.60407	426718	0.62539	375388	0.60972	3645240	2.12405	0	0.00000	0	0.00000	0	0.00000	11037323	0.00000	11265011	1.94611	43
44	AMERADA - STATE 11	74.40	0.98044	113007	0.20548	20548	0.00000	372458	0.53265	372458	0.53265	0	0.00000	0	0.00000	0	0.00000	14649577	0.00000	15191974	2.62816	44
45	GETTY - STATE 11	82.70	1.02799	319957	0.58178	204940	0.309650	523397	0.95013	4234565	2.46736	0	0.00000	0	0.00000	0	0.00000	11093318	0.00000	12814817	2.71492	45
46	PARATHON - STATE 11	153.20	1.94860	1445134	2.62769	274363	0.43688	1733499	2.79994	143951	0.19709	0	0.00000	0	0.00000	0	0.00000	3489937	0.00000	4340075	2.5082	46
47	AMERADA MESS - STATE 11	160.40	2.05597	1379401	2.50453	9872	0.01526	1387273	2.52330	3974720	2.23777	0	0.00000	0	0.00000	0	0.00000	6775126	0.00000	9982398	1.54667	47
48	EXON - STATE 11	40.00	0.51399	436677	0.79256	7544	0.00000	436677	0.79256	930949	0.54244	0	0.00000	0	0.00000	0	0.00000	2377161				

TABLE 22 B
UNITIZATION PARAMETERS - ORIGINAL OIL IN PLACE

WIO NO.	WORKING INTEREST OWNER	PRODUCTIVE ACRES		BASAL GRAYBURG				SAN ANDRES				UNIT TOTALS										
		ACRES		UPPER ZONE		LOWER ZONE		TOTALS		ZONE I		ZONE II		ZONE III		TOTALS		WIO NO.				
		ACS.	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%			
1	AMERADA HESS CORP.	791.55	10.17129	5769871	10.52773	485448	7.38886	6278319	10.19277	13237833	7.71332	13650528	9.11604	13854432	8.91495	1675728	4.21985	42420521	8.21341	48695440	8.42923	1
2	AMOCO PRODUCTION CO.	400.00	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	2
3	ANDERSON OIL & GAS	4.69	0.06727	47262	0.08594	34980	0.53242	82242	0.13556	61094	0.03560	33133	0.02117	94470	0.00017	3007061	7.53048	10226596	1.494066	10226596	1.76717	3
4	ANDERSON OIL & GAS	4.69	0.06727	47262	0.08594	34980	0.53242	82242	0.13556	61094	0.03560	33133	0.02117	94470	0.00017	3007061	7.53048	10226596	1.494066	10226596	1.76717	4
5	ANDERSON OIL & GAS	4.69	0.06727	47262	0.08594	34980	0.53242	82242	0.13556	61094	0.03560	33133	0.02117	94470	0.00017	3007061	7.53048	10226596	1.494066	10226596	1.76717	5
6	ARMSTRONG, J.H.	9.37	0.12740	94524	0.17187	63761	0.06986	164985	0.26117	122189	0.07120	66745	0.00034	353474	0.00115	198989	0.00000	188989	0.00000	353474	0.00115	4
7	ATLANTIC RICHFIELD CO.	200.00	2.56997	1477813	2.59134	0	0.00000	1477813	2.59134	5267234	3.07024	2790844	1.94344	1192167	0.00000	9252067	0.00000	10679880	0.00000	10679880	0.00000	7
8	AYRON, A.	23.44	0.30120	348338	0.63411	12844	0.01980	360182	0.58812	24683	0.00930	0	0.00000	0	0.00000	0	0.00000	0	0.00000	360182	0.60702	8
9	C&C OPERATING CO.	75.20	0.96631	161876	0.29434	1170	0.01761	163044	0.26483	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	163044	0.26281	9
10	CHEVRON OIL COMPANY	140.00	2.05537	858932	1.56324	0	0.00000	858932	1.56324	0	0.00000	0	0.00000	0	0.00000	0	0.00000	0	0.00000	15740924	2.72314	10
11	CITIES SERVICE OIL CO.	261.80	3.36409	1314496	2.39742	14674	0.22335	1333170	2.16552	9579193	5.58123	8753711	5.84555	44175622	2.40254	30121742	5.865072	31550912	5.45821	31550912	5.45821	11
12	CONANT HARY OIL CO.	2.60	0.03212	10147	0.01845	0	0.00000	10147	0.01845	36657	0.02136	0	0.00000	0	0.00000	0	0.00000	0	0.00000	36657	0.02136	12
13	CORNING OIL CO.	512.90	6.59068	3125268	5.67777	1376681	2.069318	4495249	7.30147	18678642	10.48352	1648492	11.01104	23047358	0.00000	67978572	13.511174	74280521	12.850291	74280521	12.850291	13
14	CRIE, HENRI	3.25	0.00419	15320	0.02742	0	0.00000	15320	0.02742	54985	0.03204	0	0.00000	0	0.00000	0	0.00000	0	0.00000	54985	0.02126	14
15	CUSACK, J.P.	25.72	0.33050	58473	0.10632	0	0.00000	58473	0.09498	50255	0.02928	7125	0.00000	0	0.00000	0	0.00000	0	0.00000	110753	0.01916	15
16	CUSACK, J.P.	40.00	0.51389	182483	0.33441	0	0.00000	182483	0.33441	1028114	0.59267	168236	0.11235	0	0.00000	0	0.00000	0	0.00000	1440570	0.24921	16
17	CUSACK, J.P.	40.00	0.51389	182483	0.33441	0	0.00000	182483	0.33441	1028114	0.59267	168236	0.11235	0	0.00000	0	0.00000	0	0.00000	1440570	0.24921	17
18	DEL-LEA, INC.	83.66	1.07887	189208	0.34404	0	0.00000	189208	0.34404	67812	0.04054	0	0.00000	0	0.00000	0	0.00000	0	0.00000	258820	0.04478	18
19	DEL-LEA, INC.	2.90	0.03726	9830	0.01787	0	0.00000	9830	0.01597	2391	0.00139	71	0.00005	0	0.00000	0	0.00000	0	0.00000	12291	0.00213	19
20	ESTELA RUSSELL CO.	2.50	0.03212	25206	0.04583	18456	0.28196	43862	0.07124	32584	0.01099	17671	0.00009	0	0.00000	0	0.00000	0	0.00000	50394	0.01631	20
21	EXXON COMPANY - HESS	433.70	5.57797	4244668	7.79083	498453	7.55437	4791021	7.76583	12819693	7.44948	13454238	8.71954	15270721	0.00000	39770470	7.90031	44551491	7.70727	44551491	7.70727	21
22	FIRST ROSSELL COMPANY	5.80	0.07453	19460	0.03575	0	0.00000	19460	0.03193	4783	0.00278	190	0.00009	0	0.00000	0	0.00000	0	0.00000	48221	0.00925	22
23	FURNES, C. C.	3.04	0.03906	40940	0.07448	9560	0.14551	50520	0.08206	68188	0.03973	60947	0.04076	12045	0.00000	141188	0.02753	191700	0.03316	191700	0.03316	23
24	FURNES, C. C.	2.96	0.03804	39883	0.07252	3308	0.04167	43191	0.07290	66394	0.03862	59344	0.03963	11728	0.00000	137466	0.02462	184657	0.03229	184657	0.03229	24
25	GETTY OIL COMPANY	875.42	11.24900	6440367	11.71053	361135	5.54934	6804502	11.05230	14325733	9.51255	13724027	7.14195	11098194	0.00000	41498683	8.03492	48303145	8.35630	48303145	8.35630	25
26	GULF ENERGY & MINERALS	736.20	10.23104	3398413	6.17920	125117	1.90932	3523330	5.22346	22089845	12.82114	20150677	13.45697	28744923	0.00000	77978518	15.00762	81489245	14.89926	81489245	14.89926	26
27	HARLEY, KEITH	8.75	0.11294	26997	0.04809	0	0.00000	26997	0.04385	72958	0.04951	0	0.00000	0	0.00000	0	0.00000	0	0.00000	99955	0.01729	27
28	JORDAN, JEFF	2.60	0.03212	10147	0.01845	0	0.00000	10147	0.01845	36657	0.02136	0	0.00000	0	0.00000	0	0.00000	0	0.00000	36657	0.02110	28
29	JORDAN, JEFF	2.60	0.03212	10147	0.01845	0	0.00000	10147	0.01845	36657	0.02136	0	0.00000	0	0.00000	0	0.00000	0	0.00000	36657	0.02110	29
30	JORDAN, JEFF	2.60	0.03212	10147	0.01845	0	0.00000	10147	0.01845	36657	0.02136	0	0.00000	0	0.00000	0	0.00000	0	0.00000	36657	0.02110	30
31	LAFLIN, G. F.	2.90	0.03726	9830	0.01787	0	0.00000	9830	0.01597	2391	0.00139	71	0.00005	0	0.00000	0	0.00000	0	0.00000	12291	0.00213	31
32	LONG, J. R.	5.27	0.06772	8518	0.01548	0	0.00000	8518	0.01383	278	0.00016	0	0.00000	0	0.00000	0	0.00000	0	0.00000	94260	0.01631	32
33	MARATHON OIL COMPANY	153.20	1.96859	1445136	2.62269	278363	4.23688	1723499	2.79991	7599985	4.42830	7924122	5.27191	8754119	5.63354	5418187	13.64093	31420052	5.77490	31420052	5.77490	33
34	MCCARTHY, K. P.	2.60	0.03212	10147	0.01845	0	0.00000	10147	0.01845	36657	0.02136	0	0.00000	0	0.00000	0						

TABLE 23 A
PRIMARY OIL RESERVES AND ULTIMATE OIL RECOVERY

TR. NO.	TRACT NAME OPERATOR - LEASE	GRAYBURG			S.A. ZONE I			S.A. ZONE II			S.A. ZONE III			S.A. TOTAL			UNIT TOTAL			ULTIMATE OIL REC.*			TR. NO.
		BBLs	%		BBLs	%		BBLs	%		BBLs	%		BBLs	%		BBLs	%		BBLs	%		
1	GETTY - STATE B	13132	88.415		0	0.0000		0	0.0000		0	0.0000		0	0.0000		13132	88.415		73480	0.31449		1
2	AMERADA MESS-STATE WMB	13310	89.113		0	0.0000		0	0.0000		0	0.0000		0	0.0000		13310	89.113		14073	0.07025		2
3	GULF - LEA PD-STATE	10062	67.745		0	0.0000		0	0.0000		0	0.0000		0	0.0000		10062	67.745		79980	0.39009		3
4	TEXAS PACIFIC-STATE V ACI	38702	26.0571		0	0.0000		0	0.0000		0	0.0000		0	0.0000		38702	26.0571		235875	1.1502		4
5	TEXAS PACIFIC-STATE	12876	86.484		0	0.0000		0	0.0000		0	0.0000		0	0.0000		12876	86.484		84023	0.4242		5
6	CONTINENTAL - STATE B 13	11753	77.130		0	0.0000		0	0.0000		0	0.0000		0	0.0000		11753	77.130		856717	4.1775		6
7	SHELL - RICE	3271	22.023		5360	0.2518		53190	4.9647		44898	0.40885		108438	0.48819		108709	0.28534		1812439	8.6327		7
8	AMERADA MESS - B HARDIN	46776	4.42847		2435	0.01240		10707	0.1024		0	0.0000		0	0.0000		79117	0.20781		1819582	8.6725		8
9	MORANCO - STATE T 17	13957	93.796		0	0.0000		0	0.0000		0	0.0000		0	0.0000		13957	93.796		1854114	9.0408		9
10	CHURON - STATE L 12	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		85748	0.4181		10
11	GETTYSKELLY-STATE A	7968	53.647		0	0.0000		0	0.0000		0	0.0000		0	0.0000		7968	53.647		61888	0.3014		11
12	AMERADA MESS-STATE WMB	30842	20.0305		0	0.0000		0	0.0000		0	0.0000		0	0.0000		30842	20.0305		299209	1.4590		12
13	WISER - MORRIS B	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		73648	0.3667		13
14	WISER - MORRIS A	61284	4.12610		0	0.0000		0	0.0000		0	0.0000		0	0.0000		61284	4.12610		574521	2.8014		14
15	GULF - W.D. GRIMES NCT C	8756	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		8756	0.0000		724013	3.5401		15
16	GULF - W.D. GRIMES NCT C	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		1638498	7.5019		16
17	C.M. SWEET - MCKINLEY	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		105487	0.5144		17
18	GETTYSKELLY - MCKINLEY	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		604158	2.9557		18
19	CHURON - M.D. MCKINLEY	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		1574260	7.4885		19
20	C.M. SWEET - GRIMES	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		291234	1.4298		20
21	BILL SWEET-BOHNS R FED.	8756	5.8945		0	0.0000		0	0.0000		0	0.0000		0	0.0000		8756	5.8945		381794	1.8617		21
22	ATLANTIC-RICH-MORRIS	18360	1.33344		0	0.0000		0	0.0000		0	0.0000		0	0.0000		18360	1.33344		449542	2.1920		22
23	GETTYSKELLY-STATE A	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		884934	4.3151		23
24	TEXAS PACIFIC-STATE WMB	47308	4.35845		213028	1.00294		47315	0.00457		0	0.0000		830343	2.79584		830343	2.79584		734139	3.50940		24
25	GULF - LEA PD-STATE	0	0.0000		55708	0.26311		0	0.0000		0	0.0000		85781	0.17980		130519	0.18282		333588	1.62843		25
26	CITIES SERVICE - HARDIN	0	0.0000		0	0.0000		0	0.0000		0	0.0000		250448	0.68454		250448	0.68454		369494	1.80074		26
27	SHELL - MCKINLEY - A	0	0.0000		504744	2.37549		1043910	13.46638		250448	0.68454		1800750	4.27292		250448	0.68454		1150140	5.47564		27
28	GULF-GRAMAN STATE NCT A	0	0.0000		90324	0.42508		162132	2.12357		294054	3.84352		548510	1.49922		548510	1.49922		3534761	1.72359		28
29	SHELL - STATE D	0	0.0000		179360	0.84405		56342	0.2613		0	0.0000		231712	0.61450		231712	0.61450		1313848	6.40464		29
30	AMERADA MESS-STATE E	19629	1.32157		104842	0.49349		0	0.0000		0	0.0000		104842	0.28641		124491	0.32699		1150057	5.6078		30
31	TEXAS PACIFIC-STATE G	0	0.0000		1141692	5.46708		538561	7.05397		24152	0.31355		1724405	4.52936		1724405	4.52936		5948978	2.90040		31
32	SAMEDAN - STATE C	83172	5.59777		1133353	5.33371		0	0.0000		0	0.0000		1133353	3.09774		1133353	3.09774		461683	2.25101		32
33	C.M. SWEET - STATE F	3768	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		3768	0.0000		726639	3.6427		33
34	TEXAS PACIFIC-STATE V AC2	27714	1.86532		0	0.0000		0	0.0000		0	0.0000		0	0.0000		27714	0.0000		131218	0.6398		34
35	C6C OPER. - SHIPP A	2421	1.7647		0	0.0000		0	0.0000		0	0.0000		2421	0.0000		2421	0.0000		321618	1.5825		35
36	JOHN A YATES-SHELL STATE	40718	2.7145		0	0.0000		0	0.0000		0	0.0000		0	0.0000		40718	0.0000		40718	0.0000		36
37	WISER - STATE L	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		10263	0.0500		37
38	WISER - STATE L	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		92394	0.4448		38
39	GETTYSKELLY - MORRIS E	9194	6.1915		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		1100544	5.2664		39
40	CONTINENTAL - STATE B 25	20232	1.36217		54617	0.25704		47731	0.42517		0	0.0000		102398	0.27974		122580	0.32197		1100544	5.2664		40
41	SAMEDAN - STATE B	23221	1.56341		0	0.0000		0	0.0000		0	0.0000		0	0.0000		23221	0.0000		414422	2.0385		41
42	TEXAS PACIFIC-STATE B C ST	0	0.0000		86438	0.40410		293804	3.84821		18391	0.23874		1174835	3.21659		1174835	3.21659		5653171	2.75654		42
43	EXXON - STATE A	188658	13.72018		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		414422	2.0385		43
44	AMERADA - M.D. MCKINLEY	0	0.0000		944937	4.47700		123278	1.61443		230264	2.9893		1298478	3.54907		1298478	3.54907		6523591	3.18094		44
45	GETTY - M.D. MCKINLEY	0	0.0000		366725	1.72316		492415	6.44855		86266	1.11482		1300224	3.70843		1300224	3.70843		4811228	2.33148		45
46	MARATHON-STATE SEC. 30	3311	2.2232		908564	4.27767		0	0.0000		0	0.0000		207281	1.93456		207281	1.93456		711092	3.48277		46
47	EXXON-BOWERS A FEDERAL	0	0.0000		908564	4.27767		0	0.0000		0	0.0000		207281	1.93456		207281	1.93456		711092	3.48277		47
48	EXXON-BOWERS A FEDERAL	0	0.0000		908564	4.27767		0	0.0000		0	0.0000		207281	1.93456		207281	1.93456		711092	3.48277		48
49	AMERADA - STATE B	159358	10.72919		83151	0.39132		186742	2.47211		3201	0.00424		225943	0.61756		225943	0.61756		1162343	5.6677		49
50	EXXON - M.D. GRIMES	0	0.0000		0	0.0000		34542	0.47443		92149	1.19632		34542	0.9988		34542	0.9988		5425158	2.64537		50
51	CONTINENTAL-STATE A 29	0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		0	0.0000		1197475	5.8451		51
52	GETTY - M.D. GRIMES	0	0.0000		118240	0.55749		143847	1.98404		25644	0.33822		330441	0.92373		330441	0.92373		3037048	1.48090		52
53	CHURON - STATE 1 29	0	0.0000		1074793	5.06753		0	0.0000		0	0.0000		1125489	3.07624		1125489	3.07624		3289454	1.60398		53
54	ATLANTIC - M.D. GRIMES-SOC	14520	0.97740		651040	3.06274		144378	1.91485		58179	0.76531		65218	1.73890		65218	1.73890		4057343	1.97842		54
55	SAMEDAN - MOON A	0	0.0000		825574	4.10675		5359	0.00719		0	0.0000		525933	1.43081		525933	1.43081		2471557	1.20518		55
56	SAMEDAN - MOON B	0	0.0000		920545	4.33230		38278	0.51444		0	0.0000		959843	2.63081		959843	2.63081		2413710	1.17676		56
57	SHELL - GRIMES	0	0.0000		954358	4.49134		0	0.0000		176442	2.39354		131000	3.61131		131000	3.61131		5046733	2.46085		57
58	CONTINENTAL - M.D. GRIMES	0	0.0000		1522592	7.14553		104703	1.43352		173404	2.33824		1801701	4.92451		1801701	4.92451		8856493	4.36882		58
59	SHELL - SANGER	25698	1.73019		2777975	11.66188		44413	0.59410		0	0.0000		2526388	6.90526		2526388	6.90526		6339758	3.09086		59
60	MORANCO - MORRIS</																						

TABLE 23 B
PRIMARY OIL RESERVES AND ULTIMATE OIL RECOVERY

WIO NO.	WORKING INTEREST OWNER	PRIMARY OIL RESERVES										ULTIMATE OIL RECOVERY *		WIO NO.
		GRAYBURG		S. A. ZONE I		S. A. ZONE II		S. A. ZONE III		S. A. TOTAL		UNIT TOTAL		
		BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	
1	AMERADA-HESS CORP.	224044	15.21968	1222184	5.75176	463311	6.46436	564116	7.32343	3289615	4.11877	2275659	4.50263	1
2	AMOCO PRODUCTION CO.	0	0.0000	177119	0.83474	0	0.0000	507965	6.59471	685404	1.80030	685404	1.80030	2
3	ANDERSON-ADA-A	1509	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	1509	0.0000	3
4	ANDERSON EST., WARREN D	1509	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	1509	0.0000	4
5	ANDERSON, W.D. AND SONS	3018	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	3018	0.0000	5
6	ARMSTRONG, J.M.	3018	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	3018	0.0000	6
7	ATLANTIC RICHFIELD CO.	33880	2.61104	461040	3.64338	146439	1.81885	68179	0.86331	855718	2.33890	889598	2.33890	7
8	BYRON W.K.	27367	1.84057	0	0.0000	0	0.0000	0	0.0000	0	0.0000	27367	0.0000	8
9	CFC OPERATING CO.	2621	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	2621	0.0000	9
10	CHEVRON OIL COMPANY	0	0.0000	1076793	5.06753	148560	2.00777	48696	0.53250	1274099	3.53697	1274099	3.53697	10
11	CITIES SERVICE OIL CO.	0	0.0000	583423	2.74550	324579	4.20416	341172	3.33245	1219224	3.13245	1219224	3.13245	11
12	CONRAD MARY DANIEL	0	0.0000	9548	0.0000	0	0.0000	0	0.0000	9548	0.02508	9548	0.02508	12
13	CONTRAIL OIL CO.	31985	2.45347	1577208	7.42254	154434	2.02275	3484793	35.88128	4450421	11.48958	30364235	9.92984	13
14	CRILE, HERMAN R.	0	0.0000	14322	0.6770	0	0.0000	0	0.0000	14322	0.03742	14322	0.03742	14
15	CUSACK, J.B.	0	0.0000	97487	0.5883	0	0.0000	0	0.0000	97487	0.25409	97487	0.25409	15
16	CUSACK, JR., J.P.	0	0.0000	448285	2.10989	23160	0.30335	0	0.0000	471445	1.28858	471445	1.28858	16
17	CUSACK, MICHAEL E.	0	0.0000	448285	2.10989	23160	0.30335	0	0.0000	471445	1.28858	471445	1.28858	17
18	DEL-LEA, INC. (ANTHONY)	30277	2.37710	0	0.0000	0	0.0000	0	0.0000	30277	0.0000	30277	0.0000	18
19	DUNLAVY, J.M.	649	0.0000	0	0.0000	0	0.0000	0	0.0000	649	0.0000	649	0.0000	19
20	ESTES, RUSSELL G.	805	0.0000	0	0.0000	0	0.0000	0	0.0000	805	0.0000	805	0.0000	20
21	EXXON COMPANY, U.S.A.	188455	12.20159	908984	4.27737	214148	2.83106	348044	3.77311	1494198	4.08389	1482803	4.08389	21
22	FIRST ROSWELL COMPANY	1299	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	1299	0.0000	22
23	FORBES, C.A.	0	0.0000	21534	0.01034	0	0.0000	0	0.0000	21534	0.05884	21534	0.05884	23
24	FORBES, ILANIE	0	0.0000	20947	0.09867	0	0.0000	0	0.0000	20947	0.05607	20947	0.05607	24
25	GETTY OIL COMPANY	108313	7.29246	1585188	7.27177	1504154	19.27233	148223	2.19055	3220037	8.80121	3328360	8.74235	25
26	GULF ENERGY & MINERALS	139720	9.40701	1201710	5.85551	833621	10.91860	1421408	18.55432	3856739	9.44815	3594459	9.44815	26
27	HEADLEY, KENNETH NOEL	0	0.0000	22760	0.01071	0	0.0000	0	0.0000	22760	0.00221	22760	0.00221	27
28	MURO, PETER	0	0.0000	9548	0.0493	0	0.0000	0	0.0000	9548	0.02508	9548	0.02508	28
29	JUDSON, RUBY WANDA CANRA	0	0.0000	1810	0.00858	0	0.0000	0	0.0000	1810	0.00522	1810	0.00522	29
30	KEMNITZ, A.A.	0	0.0000	325839	1.53344	0	0.0000	0	0.0000	325839	0.85586	325839	0.85586	30
31	LOWE, GEORGE P.	449	0.0000	0	0.0000	0	0.0000	0	0.0000	449	0.0000	449	0.0000	31
32	LOVEL, M. RALPH	10179	0.88533	0	0.0000	0	0.0000	0	0.0000	10179	0.0274	10179	0.0274	32
33	MARATHON OIL COMPANY	3311	0.0000	355821	1.67501	482415	6.44455	607437	6.58282	1355275	3.70582	1359086	3.54981	33
34	MCCARTHY, KATHRYN L. C.	0	0.0000	1910	0.0089	0	0.0000	0	0.0000	1910	0.0522	1910	0.0522	34
35	MCCREARY, K.D.	2880	0.0000	0	0.0000	0	0.0000	0	0.0000	2880	0.00257	2880	0.00257	35
36	MCPHERON, MARGARET M.	7310	0.0000	0	0.0000	0	0.0000	0	0.0000	7310	0.01920	7310	0.01920	36
37	MCPHERON, ROBERT L.	3656	0.0000	0	0.0000	0	0.0000	0	0.0000	3656	0.00960	3656	0.00960	37
38	MOBIL OIL CORP.	315251	21.22509	0	0.0000	0	0.0000	0	0.0000	315251	0.82805	315251	0.82805	38
39	MORANCO	10843	0.0000	0	0.0000	0	0.0000	0	0.0000	10843	0.02848	10843	0.02848	39
40	MORAN, R.M.	11532	0.0000	0	0.0000	0	0.0000	0	0.0000	11532	0.03029	11532	0.03029	40
41	MORRIS, G.D.	0	0.0000	14127	0.00687	0	0.0000	0	0.0000	14127	0.03872	14127	0.03872	41
42	MURDOCH, MATHLYN I. CONRA	0	0.0000	1910	0.0089	0	0.0000	0	0.0000	1910	0.0522	1910	0.0522	42
43	NOBLE, RICHARD L.	0	0.0000	172269	0.81073	0	0.0000	0	0.0000	172269	0.45885	172269	0.45885	43
44	PARRISH, M.C. ESTATE	3819	0.0000	0	0.0000	0	0.0000	0	0.0000	3819	0.01003	3819	0.01003	44
45	PORTALES NATIONAL BANK	0	0.0000	21250	0.01004	0	0.0000	0	0.0000	21250	0.05882	21250	0.05882	45
46	ROBING, JOHN	0	0.0000	42501	0.02002	0	0.0000	0	0.0000	42501	0.11413	42501	0.11413	46
47	ROSE, FRANCIS I. CONRAD	0	0.0000	1910	0.0089	0	0.0000	0	0.0000	1910	0.0522	1910	0.0522	47
48	SANDEAN OIL CORP.	32221	1.86341	2288978	10.77224	44929	0.58897	0	0.0000	3333807	4.37914	3387128	4.19129	48
49	SEA PROPERTIES, LTD.	0	0.0000	35377	0.16658	1389	0.01819	0	0.0000	36766	0.10055	36766	0.09662	49
50	SHELL OIL COMPANY	32737	2.20410	5630150	26.49645	2319530	30.38674	1044502	13.84490	8016332	24.48435	8048999	23.74832	50
51	SPALDING SMITH, EST. OF	0	0.0000	14167	0.00687	0	0.0000	0	0.0000	14167	0.03872	14167	0.03872	51
52	SPEAR, HOWELL	325	0.0000	0	0.0000	0	0.0000	0	0.0000	325	0.00085	325	0.00085	52
53	SULLIVAN, E.C.	38107	2.86548	21250	0.01001	34431	0.04538	0	0.0000	21250	0.05882	21250	0.05882	53
54	SUN OIL CO. (DELAWARE)	8755	0.0000	2104	0.00990	0	0.0000	0	0.0000	36235	0.10041	74842	0.19458	54
55	SHEET, BILL L.	81927	6.18922	0	0.0000	0	0.0000	0	0.0000	0	0.0000	81927	0.24146	55
56	SHEET, M.E. EST. OF	0	0.0000	42501	0.02002	0	0.0000	0	0.0000	42501	0.11413	42501	0.11413	56
57	TATE, M.E. EST. OF	0	0.0000	116162	5.46708	232804	3.04831	18341	0.23874	1376835	3.21659	1376835	3.08210	57
58	TEXACO, INC.	64416	4.47163	0	0.0000	538561	7.05397	24162	0.31355	1794405	4.71324	1790921	4.70381	58
59	TEXAS PACIFIC OIL CO. IN	0	0.0000	1910	0.0089	0	0.0000	0	0.0000	1910	0.0522	1910	0.0522	59
60	TREADAWAY, BETTIE CONRA	0	0.0000	25312	0.11912	0	0.0000	0	0.0000	25312	0.06918	25312	0.06918	60
61	TWO STATES OIL CO.	3455	0.0000	0	0.0000	0	0.0000	0	0.0000	3455	0.00940	3455	0.00940	61
62	WALLACE, COLLEEN MCPHERD	649	0.0000	0	0.0000	0	0.0000	0	0.0000	649	0.00170	649	0.00170	62
63	WHITLEY, LOYD	0	0.0000	55223	0.25988	0	0.0000	0	0.0000	55223	0.15084	55223	0.15084	63
64	WILLIAMS, MATTIE C.	649	0.0000	110133	0.51836	0	0.0000	0	0.0000	110133	0.30102	110133	0.30102	64
65	WILLIAMSON, A.T.	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	65
66	WISER OIL COMPANY, THE	40716	2.74145	0	0.0000	0	0.000							

* INCLUDES AN ADJUSTMENT OF AN ADDITIONAL 1029 BARRELS OF OIL FOR "LOST" PRODUCTION FROM THREE WELLS
(20L, 30C & 30K) WHICH WERE SHUT IN FOR SPECIAL BHP BUILD-UP SURVEYS REQUESTED BY THE TECHNICAL COMMITTEE

TABLE 24 A
UNITIZATION PARAMETERS – SECONDARY OIL RESERVES

TR NO.	TRACT NAME	GRAYBURG				SAN ANDRES				TOTALS				UNIT TOTALS		TR NO.
		UPPER & LOWER		ZONE II		ZONE III		ZONE III		TOTALS		UNIT TOTALS				
		BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%			
1	GETTY - STATE B	77157	1.17617	0	0.00000	0	0.00000	0	0.00000	0	0.00000	77157	1.17617	1		
2	AMERADA HESS-STATE WMB	113816	1.73800	425	0.00236	0	0.00000	425	0.00000	425	0.00000	114241	1.74053	2		
3	GULF - LEA FO STATE	46155	0.70358	0	0.00000	0	0.00000	0	0.00000	0	0.00000	46155	0.70358	3		
4	TEXAS PACIFIC-STATE V ACI	157802	2.40552	3173	0.01263	0	0.00000	3173	0.00452	3173	0.00452	160975	2.41004	4		
5	ESTES ENGR. - STATE	74776	1.13391	33967	0.51981	358	0.00147	358	0.00000	34345	0.05128	109123	0.16409	5		
6	CONTINENTAL - STATE A 13	272710	4.15117	247635	0.37619	264015	0.40000	264015	0.00000	473358	0.70768	746260	1.13192	6		
7	SHELL - RICE	25633	0.39075	38321	0.58321	966795	0.13034	966795	0.00000	1285116	0.19342	1310749	0.20000	7		
8	AMERADA HESS - B HARDIN	26588	0.40530	371758	0.56632	749446	0.11335	749446	0.00000	1141224	0.17242	1167812	0.21160	8		
9	GULF - DAN HARDIN	174050	2.66319	280716	0.42953	259717	0.155953	259717	0.00000	540433	0.08109	714483	0.10843	9		
10	MORANCO - STATE Y 17	22334	0.34061	179	0.00027	0	0.00000	179	0.00000	179	0.00027	22533	0.03480	10		
11	CHEVRON - STATE I 17	34803	0.53053	5366	0.0081	0	0.00000	5366	0.00000	5366	0.01103	40169	0.06077	11		
12	GETTYSKELLY-STATE -	42854	0.65326	14906	0.0224	0	0.00000	14906	0.00000	14906	0.0224	59240	0.08735	12		
13	ANTHEIL-HOBBS CONE TOWNS	19480	0.29695	0	0.00000	0	0.00000	0	0.00000	0	0.00000	19480	0.03629	13		
14	WISER - MORRIS B	10039	0.15303	0	0.00000	0	0.00000	0	0.00000	0	0.00000	10039	0.01819	14		
15	WISER - MORRIS A	17299	0.26370	0	0.00000	0	0.00000	0	0.00000	0	0.00000	17299	0.03134	15		
16	GULF - M.D. GRIMES ACT C	84867	1.29370	9491	0.01434	0	0.00000	9491	0.00000	9491	0.01392	94568	0.14130	16		
17	C.M. SWEET - MCKINLEY B	63480	0.96769	8539	0.01284	0	0.00000	8539	0.00000	8539	0.01755	72019	0.10947	17		
18	GETTYSKELLY- MCKINLEY	51236	0.78103	57051	0.08631	0	0.00000	57051	0.00000	57051	0.01729	108286	0.16217	18		
19	CHEVRON - H D MCKINLEY	56831	0.86433	159928	0.24149	0	0.00000	159928	0.00000	159928	0.23889	216759	0.32668	19		
20	C.M. SWEET - GRIMES	23948	0.36504	0	0.00000	0	0.00000	0	0.00000	0	0.00000	23948	0.03648	20		
21	BILL SWEET-HOBBS A FED.	28017	0.42709	19282	0.02912	0	0.00000	19282	0.00000	19282	0.03964	47299	0.08568	21		
22	BILL SWEET-HOBBS B FED.	32223	0.49121	18592	0.02833	0	0.00000	18592	0.00000	18592	0.03824	50822	0.09207	22		
23	ATLANTIC RICH-GRIMES	35245	0.53778	36706	0.05572	0	0.00000	36706	0.00000	36706	0.07546	71951	0.10305	23		
24	SHELL - MCKINLEY B	147816	2.25330	358665	0.54259	6929	0.01048	6929	0.00000	365594	0.55163	513410	0.77009	24		
25	GETTY - BOONE HARDIN	136302	2.10826	353629	0.53629	264614	0.39846	264614	0.00000	618243	0.92486	766545	1.15055	25		
26	CITIES SERVICE - HARDIN	16224	0.24432	55116	0.08257	1049231	0.15734	1049231	0.00000	1604374	0.24432	1620620	0.24432	26		
27	SHELL - MCKINLEY A	156718	2.38899	1003267	0.15137	871821	0.13034	871821	0.00000	1975088	0.29368	2031806	0.36808	27		
28	GULF-GRAMAN STATE ACT A	15838	0.24143	419814	0.63117	1015484	0.15372	1015484	0.00000	1433855	0.21744	1649233	0.21986	28		
29	SHELL - STATE D	36614	0.55814	300473	0.45130	279933	0.41477	279933	0.00000	580406	0.08637	117020	0.17179	29		
30	AMERADA HESS-STATE E	90584	1.38085	208709	0.31194	95565	0.14264	95565	0.00000	304274	0.42556	394858	0.57132	30		
31	TEXAS PACIFIC-STATE G	84593	1.28952	677603	0.10144	403654	0.60364	403654	0.00000	1121257	0.16952	1205850	0.18145	31		
32	SAMEDAN - STATE C	283315	4.31883	384696	0.57820	89541	0.13426	89541	0.00000	485137	0.70744	54726	0.08320	32		
33	C.M. SWEET - STATE F	227830	3.47302	112149	0.17005	2339	0.00353	2339	0.00000	114488	0.01734	342318	0.05174	33		
34	SHELL - STATE F	126406	1.92692	5547	0.00833	0	0.00000	5547	0.00000	5547	0.01145	131923	0.20014	34		
35	TEXAS PACIFIC-STATE V AC2	189441	2.88782	0	0.00000	0	0.00000	0	0.00000	0	0.00000	189441	0.28782	35		
36	C&C OPERA - SHIP A	17273	0.26483	0	0.00000	0	0.00000	0	0.00000	0	0.00000	17273	0.03147	36		
37	JOHN A YATES-SHELL STATE	213610	3.25624	627	0.00094	0	0.00000	627	0.00000	627	0.00129	214237	0.38811	37		
38	WISER - STATE L	47079	0.71767	0	0.00000	0	0.00000	0	0.00000	0	0.00000	47079	0.08529	38		
39	GETTYSKELLY - MORRIS E	144906	2.21484	84284	0.12684	205	0.00030	205	0.00000	84489	0.12684	95058	0.14221	39		
40	CONTINENTAL - STATE B 25	129094	1.96790	14364	0.02192	0	0.00000	14364	0.00000	14364	0.03774	147458	0.22133	40		
41	SAMEDAN - STATE B	131336	2.00206	416298	0.62377	95528	0.14351	95528	0.00000	511826	0.76727	643141	0.96727	41		
42	TEXAS PACIFIC-STATE A C ST	399978	6.00722	128750	0.19258	13997	0.02136	13997	0.00000	142747	0.22348	150776	0.22348	42		
43	EXXON - N.M. STATE A	34916	0.52925	53216	0.08009	457644	0.68589	457644	0.00000	995840	1.48444	1030774	1.56735	43		
44	AMERADA - M D MCKINLEY	55769	0.85013	675365	0.10120	383222	0.57320	383222	0.00000	1508792	0.23016	1644561	0.24736	44		
45	GETTY - M D MCKINLEY	183642	2.79941	529532	0.79185	384949	0.57766	384949	0.00000	914481	0.13810	1098133	0.16235	45		
46	MARATHON-STATE SEC. 30	31748	0.48396	1268942	0.19068	1848438	0.27554	1848438	0.00000	3340734	0.50000	3372482	0.50000	46		
47	EXXON-HOBBS-A FEDERAL	47247	0.72023	128135	0.19186	60021	0.08959	60021	0.00000	188154	0.28633	235403	0.35403	47		
48	EXXON-HOBBS-A FED CON	121340	1.84969	360344	0.54596	246393	0.36744	246393	0.00000	656737	0.10000	778077	0.11695	48		
49	AMERADA - STATE B	40605	0.61897	82252	0.12415	9209	0.01374	9209	0.00000	135030	0.02030	140956	0.02030	49		
50	FXON - W D GRIMES	2376	0.03622	461041	0.69145	888720	0.13250	888720	0.00000	91461	0.13804	132066	0.02030	50		
51	CONTINENTAL-STATE A 28	28642	0.43642	199756	0.29776	39070	0.05853	39070	0.00000	1570182	0.23281	1572538	0.23281	51		
52	GETTY - W D GRIMES	28642	0.43642	199756	0.29776	39070	0.05853	39070	0.00000	653612	0.09737	682240	0.10257	52		
53	CHEVRON - STATE I 29	116890	1.78167	174079	0.26379	735050	0.11076	735050	0.00000	1384281	0.20644	1384281	0.20644	53		
54	ATLANTIC - W D GRIMES SOC	44250	0.67053	55014	0.08257	187197	0.28151	187197	0.00000	485497	0.07257	602837	0.09210	54		
55	SAMEDAN - MOON A	31525	0.48057	26879	0.04043	36530	0.05472	36530	0.00000	91544	0.13799	137794	0.20643	55		
56	SAMEDAN - MOON B	13257	0.20021	26879	0.04043	1579	0.00236	1579	0.00000	27458	0.05445	58983	0.08855	56		
57	SHELL - GRIMES	9411	0.14148	403205	0.60595	83282	0.12414	83282	0.00.							

TABLE 24 B
UNITIZATION PARAMETERS – SECONDARY OIL RESERVES

WORKING INTEREST OWNER		GRAYBURG UPPER & LOWER			SAN ANDRES			TOTALS			UNIT TOTALS			WIO NO.	
		BBLs.	%		BBLs.	%	ZONE III _U	BBLs.	%	ZONE III _L	BBLs.	%	BBLs.	%	
1	AMERADA HESS CORP.	68964	10.19277	1490861	9.11606	2175737	8.91695	263256	4.21885	407884	8.38792	4748530	8.60291	1	
2	ARCO PRODUCTION CO.	0	.00000	1407337	1.807245	630744	2.58510	472398	7.62048	1374532	2.82398	1374532	2.82398	2	
3	ANDERSON P&A	8763	.13358	3983	.02213	42	.00017	.02213	0	4025	.00000	12784	.02317	3	
4	ANDERSON EST. MARSH	8763	.13358	3983	.02213	42	.00017	.02213	0	4025	.00000	12784	.02317	4	
5	ANDERSON, W D AND SONS	17526	.26717	7966	.04425	84	.00034	.04425	0	8050	.00000	25276	.04633	5	
6	ARMSTRONG, J M	17526	.26717	7966	.04425	84	.00034	.04425	0	8050	.00000	25276	.04633	6	
7	ATLANTIC RICHFIELD CO.	152136	2.31914	335456	1.86384	187197	.76720	1.86384	0	522653	1.07453	674789	1.22294	7	
8	BARROW, R	18487	.28483	0	.00000	0	.00000	.00000	0	0	.00000	36647	.07001	8	
9	C&C OPERATING CO.	17373	.26483	0	.00000	0	.00000	.00000	0	0	.00000	17373	.03197	9	
10	CHEVRON OIL COMPANY	91434	1.38684	428436	2.45808	252050	2.92154	345488	5.64310	1548528	3.04231	1641208	3.04231	10	
11	CITIES SERVICE OIL CO.	142052	2.16542	1052194	5.84555	1959482	7.62083	6757	.01028	291937	6.00000	306048	5.54436	11	
12	CONRAD MARX DANIEL	1081	.01638	0	.00000	0	.00000	0	.00000	0	.00000	1081	.00000	12	
13	CONTINENTAL OIL CO.	476974	7.30142	1981966	11.01104	3618896	14.83154	1817826	29.13183	7418708	15.25328	7897684	14.30740	13	
14	CRILE, HERMAN R.	1632	.02422	0	.00000	0	.00000	0	.00000	0	.00000	1632	.00000	14	
15	CUSACK, J J	6230	.09498	243	.00135	0	.00000	.00135	0	243	.00000	6473	.01173	15	
16	CUSACK, J R	19444	.29640	20223	.11235	8527	.03505	0	.00000	29750	.06117	49194	.08912	16	
17	CUSACK, MICHAEL F.	19444	.29640	20223	.11235	8527	.03505	0	.00000	29750	.06117	49194	.08912	17	
18	DELAWARE, LANTIER	20160	.30332	0	.00000	0	.00000	0	.00000	0	.00000	20160	.03452	18	
19	DUNLAP, J R	1047	.01597	8	.00005	0	.00000	.00005	0	8	.00002	1058	.00191	19	
20	ESTES, RUSSELL G.	4624	.07124	2124	.03180	23	.00008	.03180	0	2142	.00000	4823	.01236	20	
21	EXXON COMPANY - HESS	509426	7.76554	1805517	8.91954	1929363	7.90722	205354	3.29093	3740234	7.64967	4249660	7.64967	21	
22	FIRST AMERICAL COMPANY	2054	.03183	17	.00002	0	.00000	.00002	0	17	.00000	2112	.00382	22	
23	FORBES C. C.	5393	.08206	7326	.04070	1891	.00775	0	.00000	9217	.01895	14400	.02245	23	
24	FORBES, ILAHE	5231	.07590	7134	.03963	1842	.00755	0	.00000	8826	.01845	14217	.02576	24	
25	GETTY OIL COMPANY	725031	11.05230	1649726	9.16515	1742637	7.14195	55101	.08303	3447464	7.04771	4172495	7.05587	25	
26	GULF ENERGY & MINERALS	335458	5.12334	2422255	13.45497	4513536	18.49810	1088129	1.759822	8033920	14.54710	8404339	15.23438	26	
27	HEADLEY, KENNETH NOL	2877	.04385	0	.00000	0	.00000	0	.00000	0	.00000	2877	.00521	27	
28	JUDSON, PETER	1081	.01638	0	.00000	0	.00000	0	.00000	0	.00000	1081	.00000	28	
29	JUDSON, PETER WANDA CO. RA	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039	29	
30	KEMALIZ, A. A.	81453	1.24166	110859	.61588	28618	.11228	0	.00000	139472	.28475	220230	.40024	30	
31	LAFLIN, GEORGE P.	1047	.01597	0	.00005	0	.00000	0	.00000	0	.00000	1047	.00191	31	
32	LOE, J. A.	308	.00384	0	.00000	0	.00000	0	.00000	0	.00000	308	.00064	32	
33	MARATHON OIL COMPANY	183642	2.79941	952544	5.629191	1374583	5.63354	851194	13.64093	3178321	6.53938	3361963	6.09051	33	
34	MCCARTHY, KATHLEEN	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039	34	
35	MCPETERS, K. D.	1741	.02654	13	.00007	0	.00000	0	.00000	13	.00003	1754	.00318	35	
36	MCPHERON, MARGARET M.	11534	.17474	0	.00000	0	.00000	0	.00000	11534	.00000	11534	.02100	36	
37	MCPHERON, ROBERT L.	5797	.08837	0	.00000	0	.00000	0	.00000	0	.00000	5797	.01050	37	
38	MORIL OIL CORP.	324805	4.93397	74393	.42385	198	.00281	0	.00000	74393	.15726	371296	.67264	38	
39	MORANCO	2946	.04491	17	.00009	0	.00000	0	.00000	17	.00004	2943	.00537	39	
40	MORANCO, R. A.	6365	.10417	0	.00028	0	.00000	0	.00000	50	.001271	7015	.01271	40	
41	MORRIS, G. D.	3541	.05399	4820	.02678	1244	.00510	0	.00000	6044	.01247	9605	.01740	41	
42	MURDOCH, MATHEW J. COLLA	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039	42	
43	NOBLE, RICHARD L.	43044	.6546	58611	.32581	15130	.06201	0	.00000	73741	.15160	116005	.21160	43	
44	PARISH, KACESTATE	331	.00519	0	.00000	0	.00000	0	.00000	0	.00000	331	.00064	44	
45	PORTALES NATIONAL BANK	5312	.08098	7230	.04017	1866	.00765	0	.00000	9066	.01970	14408	.02610	45	
46	PORTING JOHN	10624	.16135	14460	.08033	3733	.01530	0	.00000	18193	.03740	28817	.05220	46	
47	ROSE, FRANCIS L. CAMAR	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039	47	
48	SAMEDAN OIL CORP.	334445	5.09824	302430	1.68017	91274	.37407	0	.00000	393704	.80942	728149	1.31911	48	
49	SEA PROPERTIES, LTD.	3322	.05017	4105	.02281	1318	.00540	0	.00000	5423	.01115	8715	.01579	49	
50	SHELL OIL COMPANY	780726	11.70132	3589400	19.94111	4924994	20.18440	1124094	18.01435	9638490	19.81597	10419216	18.87539	50	
51	SPALDING SMITH, ESTACE	3531	.05332	4820	.02678	1244	.00510	0	.00000	6044	.01247	9605	.01740	51	
52	SPEAR MOELL	524	.00798	4	.00002	0	.00000	0	.00000	4	.00000	524	.00996	52	
53	SULLIVAN, E. C.	5312	.08098	7230	.04017	1866	.00765	0	.00000	9066	.01970	14408	.02610	53	
54	SUN OIL CO. (DELAWARE)	174625	2.59245	62579	.34766	526	.00216	0	.00000	63105	.12974	739730	.43429	54	
55	SWEEZE, BILL A.	91829	.13829	37881	.21048	2339	.00959	0	.00000	37881	.02284	58131	.17274	55	
56	SWETT, C. M. OIL CO.	315258	4.80576	120687	.67048	2339	.00959	0	.00000	123026	.25293	438784	.79399	56	
57	TALL, M. E. ESTACE	10624	.16135	14460	.08033	3733	.01530	0	.00000	18193	.03740	28817	.05220	57	
58	TEXACO, INC.	131335	2.00206	416298	2.31277	95528	.39151	0	.00000	511826	1.05227	673161	1.16515	58	
59	TEXAS PACIFIC OIL CO. RA	431836	6.58286	480774	3.74208	443654	1.81824	0	.00000	1124430	2.31174	1562264	2.81932	59	
60	TREDAWAY, BETTYE CO. RA	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039	60	
61	TWO STATES OIL CO.	3745	.05738	0	.00000	0	.00000	0	.00000	0	.00000	3745	.00682	61	
62	WALLACE, COLLEEN MCPHRO	5797	.08837	0	.00000	0	.00000	0	.00000	0	.00000	5797	.01050	62	
63	WILLIAMS, LLOYD	1057	.01582	8	.00005	0	.00000	0	.00000	8	.00002	1058	.00191	63	
64	WILLIAMS, NATTIE C.	3343	.05096	6578	.03654	2344	.00941	0	.00000	8922	.01834	12265	.02222	64	
65	WISER OIL COMPANY, THE	40798	.62603	427	.00005	0	.00000	0	.00000	427	.00002	427	.00064	65	
66	WYATT, JONAS A.	213610	3.25624	427	.00034	84	.00000	0	.00000	427	.00000	427	.00064	66	
67	YEAGER & ARMSTRONG	17526	.26717	7966	.04425	84	.00034	0	.00000	8050	.01655	25576	.04633	67	
68	YEAGER JR. OIL COMPANY	204	.00330	0	.00000	0	.00000	0	.00000	0	.00000	204	.00330	68	
69	YEAGER RUTH ANNE	523	.00798	0	.00000	0	.00000	0	.00000	0	.00000	523	.00996	69	
70	YEAGER RUTH ANNE	180	.00275	0	.00000	0	.00000	0	.00000	0	.00000	180	.00330	70	
71	YEAGER RUTH PEELER	755	.01151	0	.00000	0	.00000	0	.00000	0	.00000	755	.01137	71	
72														72	
73														73	
		6550000	100.00000	18000000	100.00000	24400000	100.00000	6240000	100.00000	86400000	100.00000	55200000	100.00000		

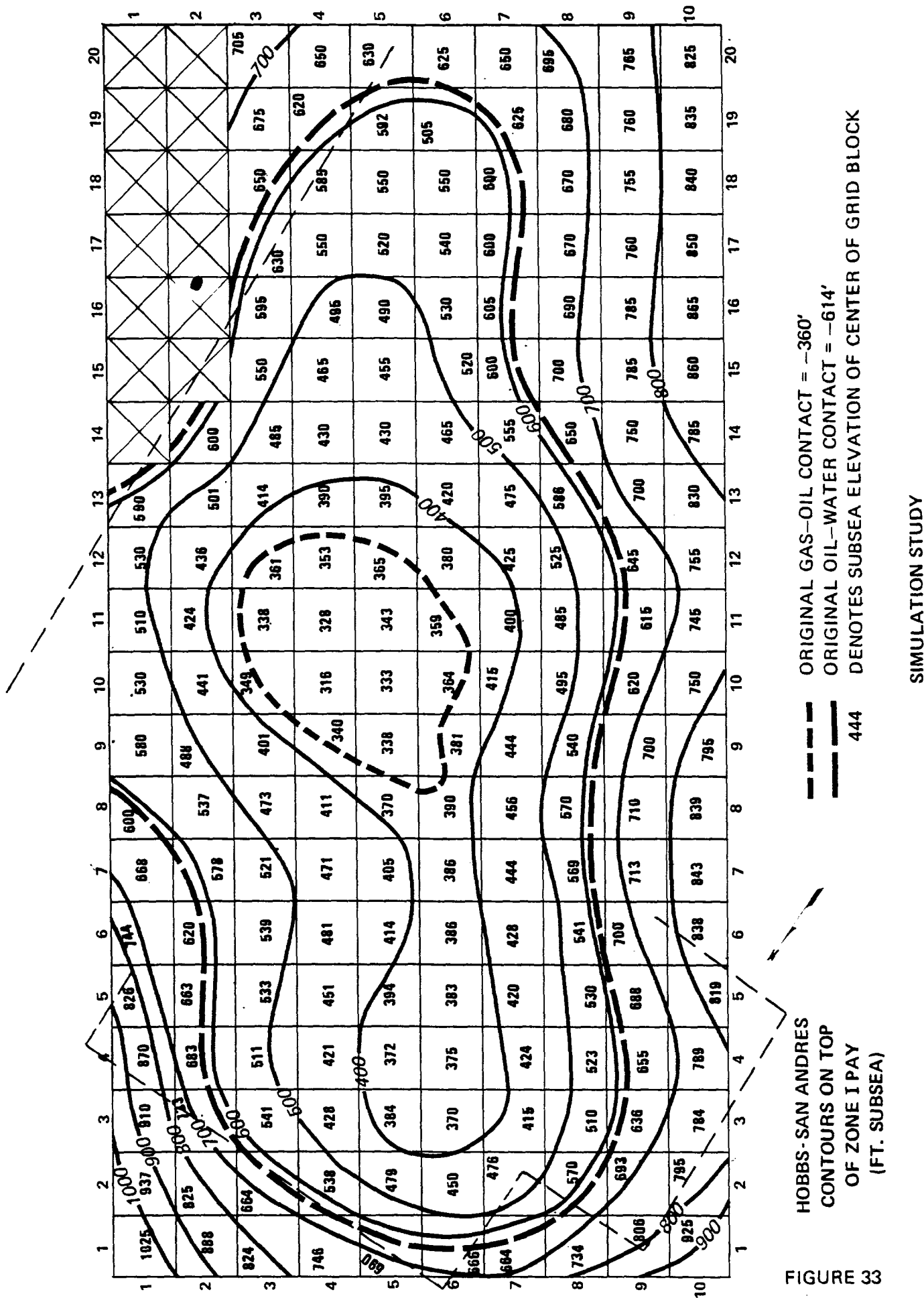
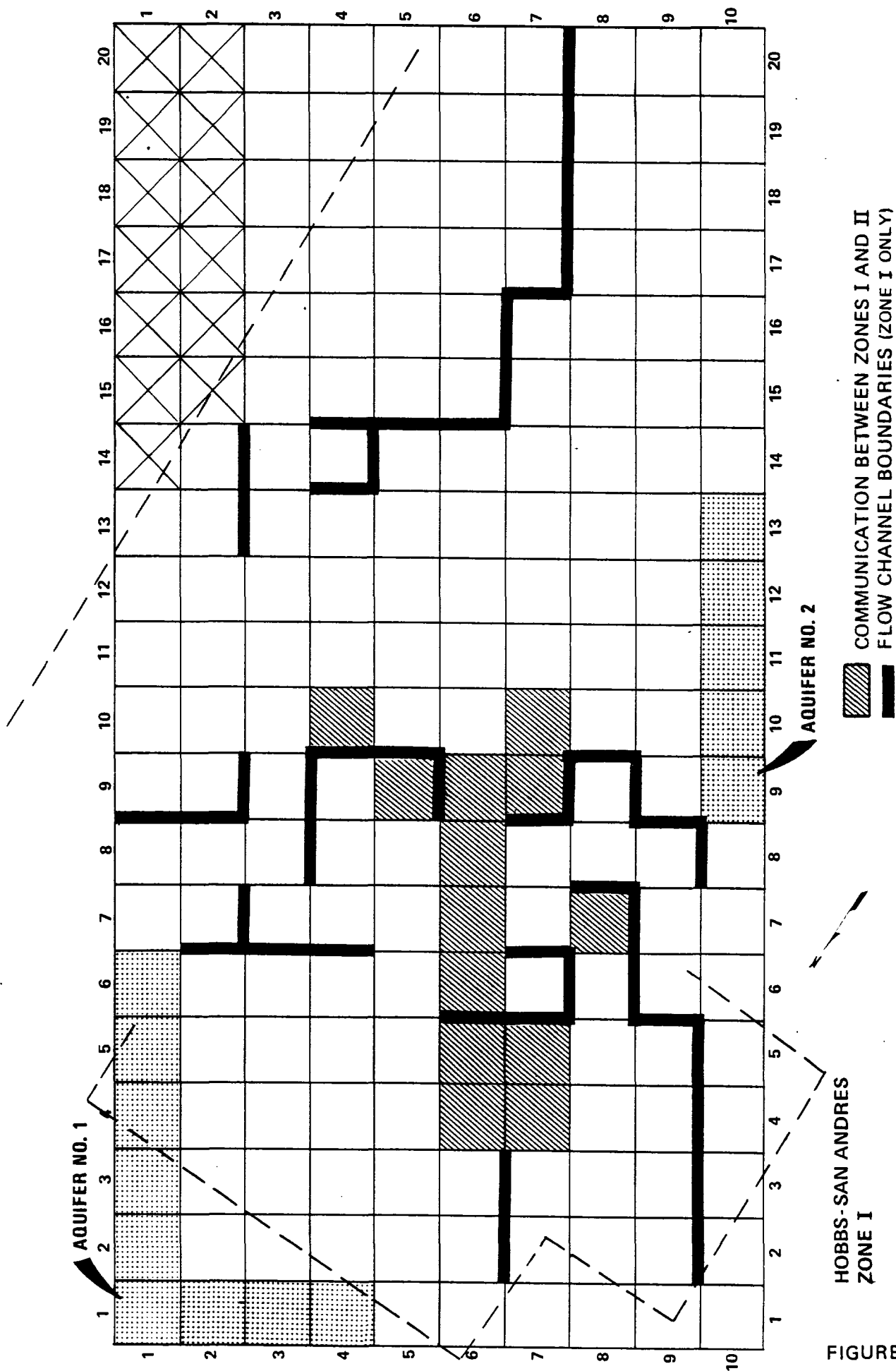


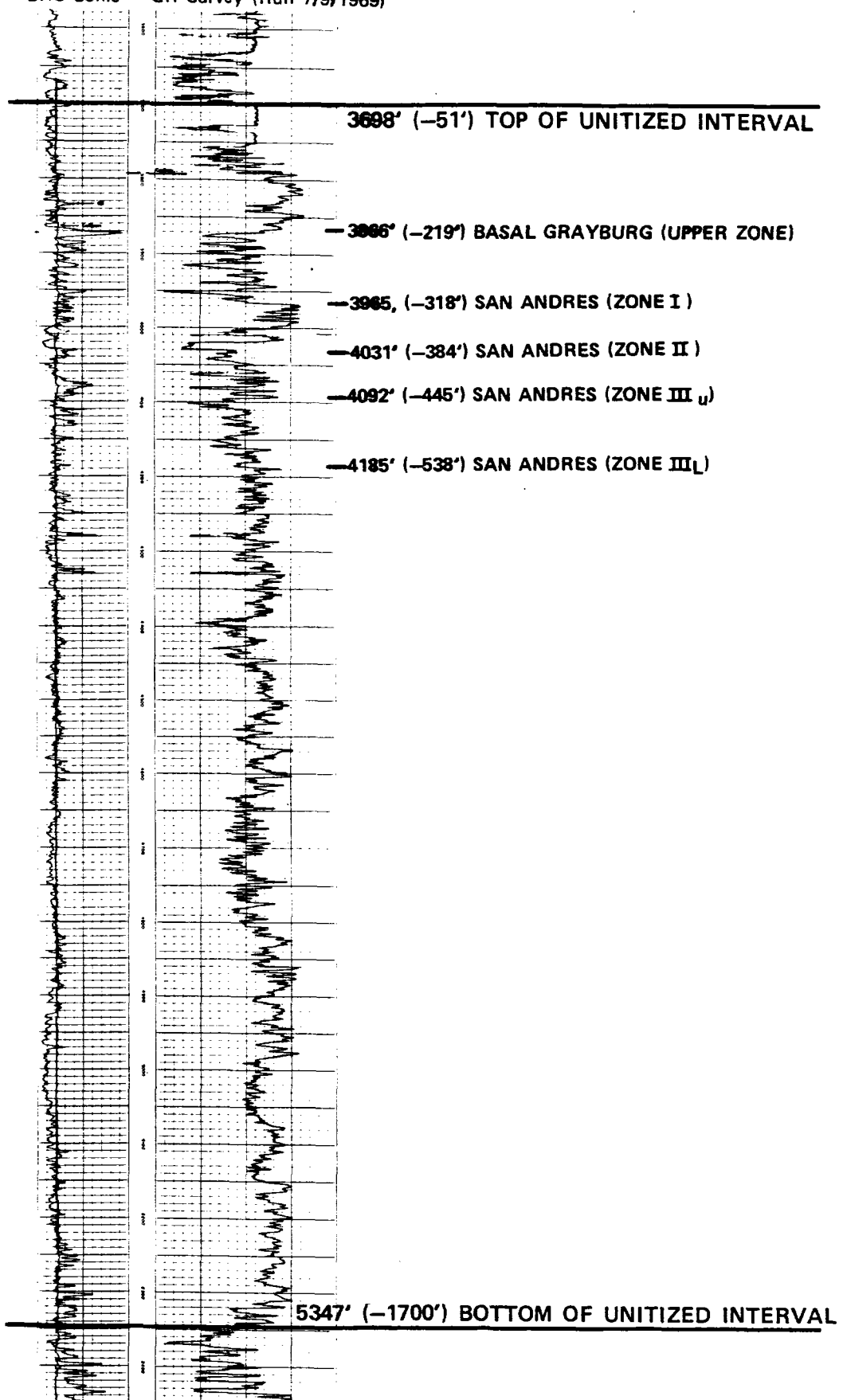
FIGURE 33



SIMULATION STUDY

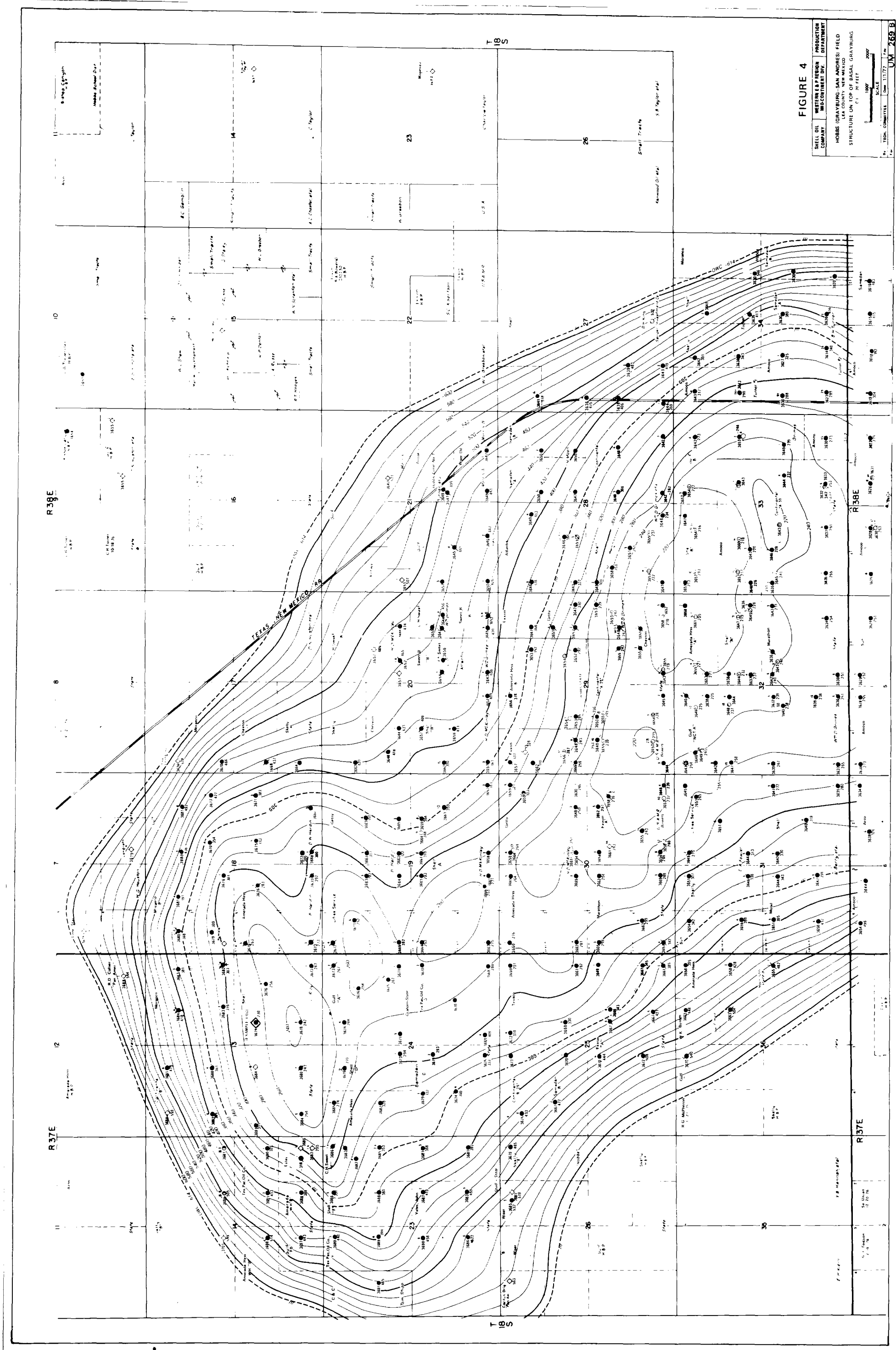
FIGURE 34

SHELL, STATE A-7
 KB ELEV. 3647'
 (930' FNL & 650' FWL Sec 32, T18S, R38E)
 BHC Sonic - GR Survey (Run 7/9/1969)



ZM-2057

FIGURE 40



R38E

9

7

12

R37E

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T18S

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R38E

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T18S

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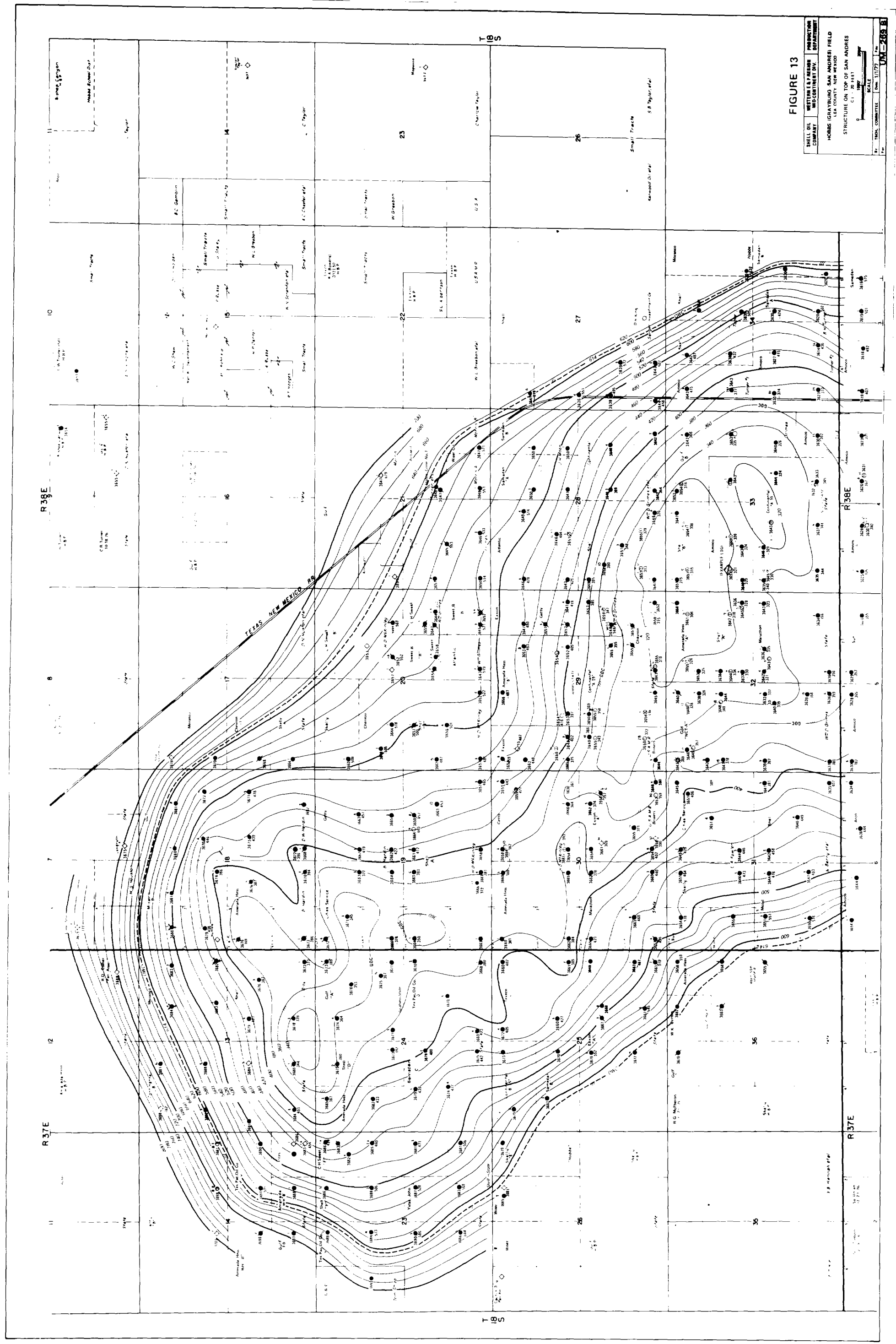
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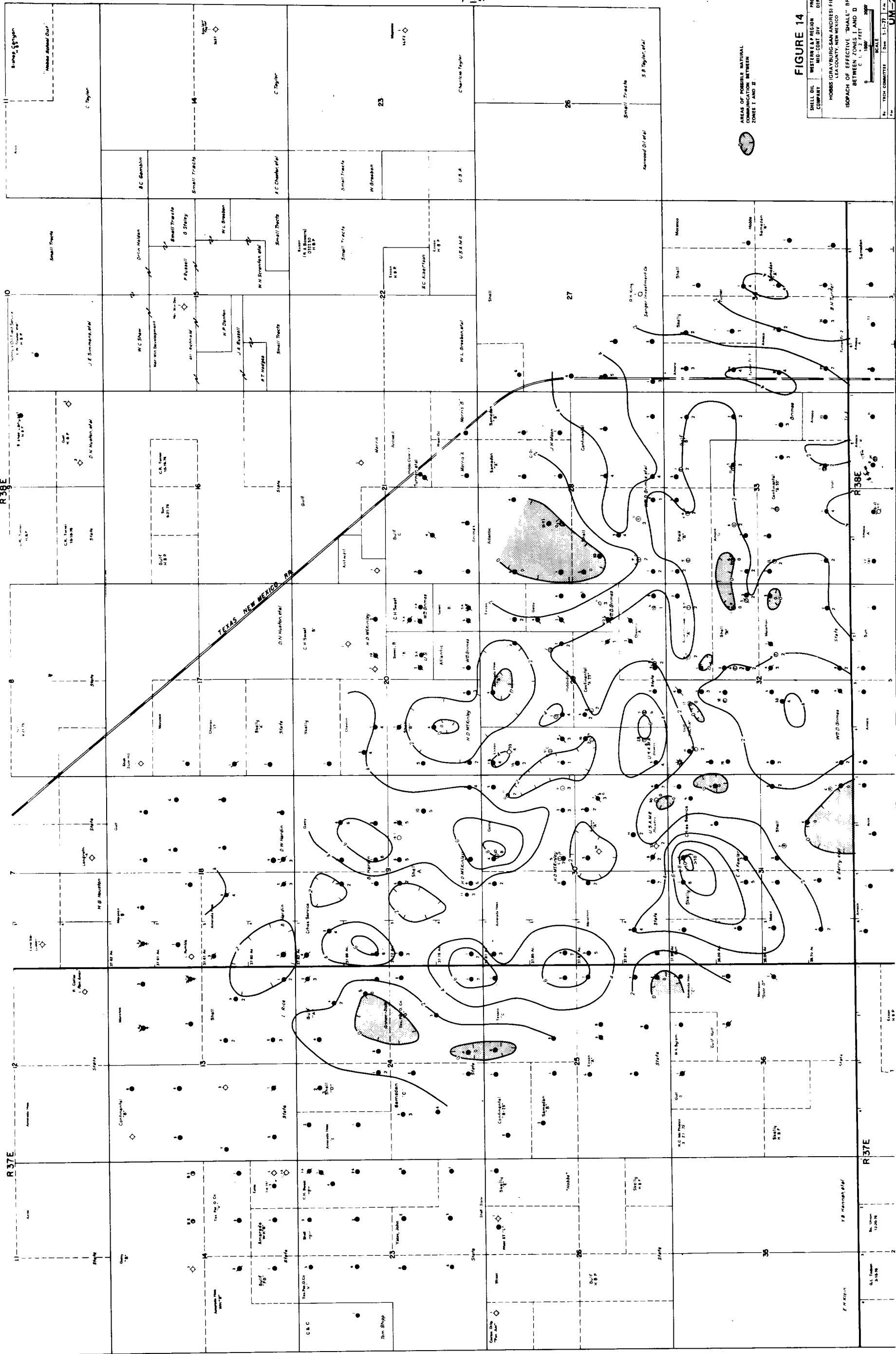


FIGURE 14

SHELL OIL COMPANY	WESTERN & REGION	MID-CONT DIV	PRODUCTION DEPARTMENT	HOBBS (GRAYBURG-SAN ANDRES) FIELD		
				LEA COUNTY, NEW MEXICO		
				ISOPACH OF EFFECTIVE "SHALE" BREAK		
				BETWEEN ZONES I AND II		
				C. L. 1937		
				SCALE		
				0 1000' 2000'		
				1" = 1 MILE		
				BY TECH COMMITTEE		
				Date 1-1-77		
				UM-269 A		

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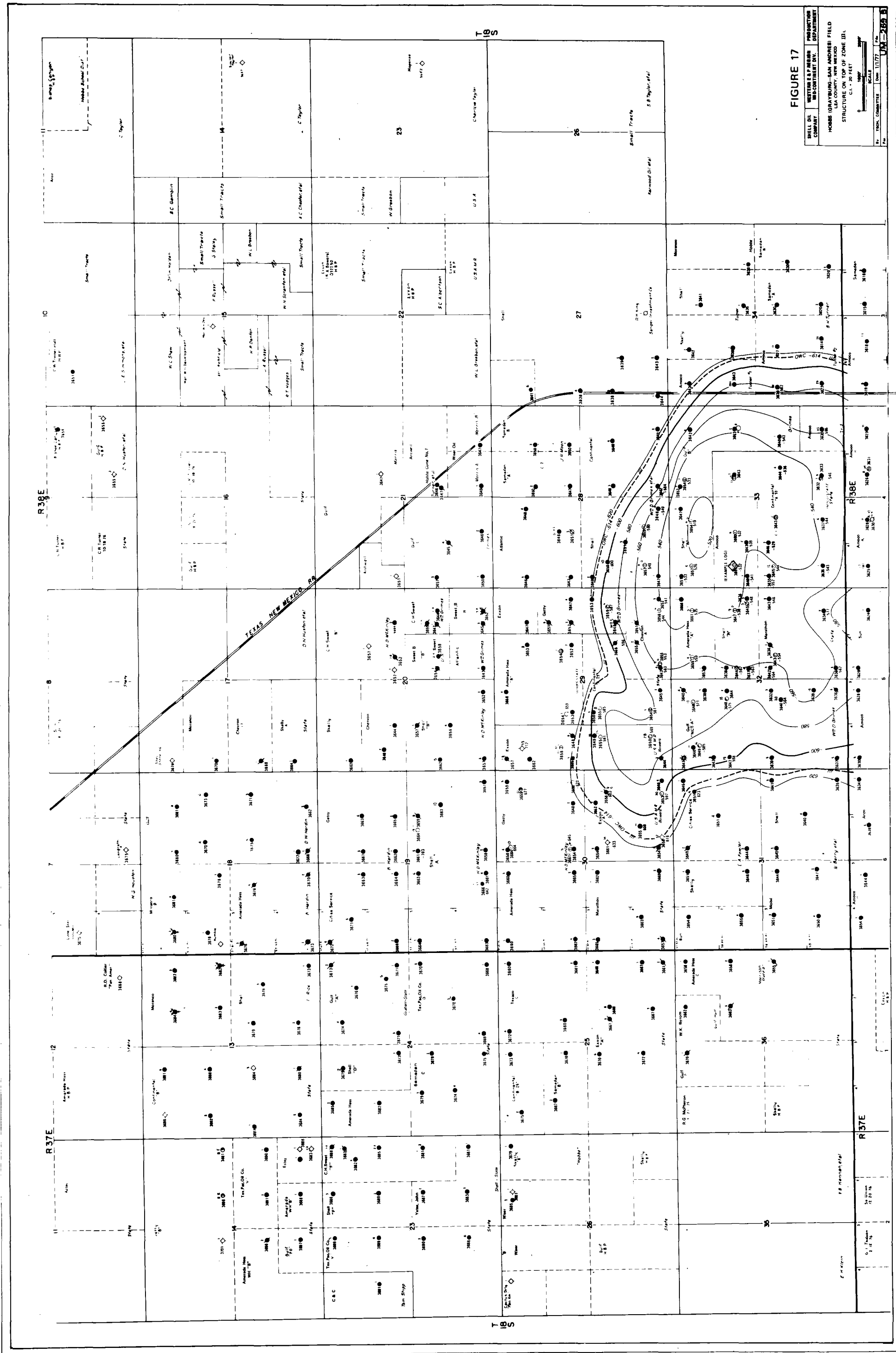
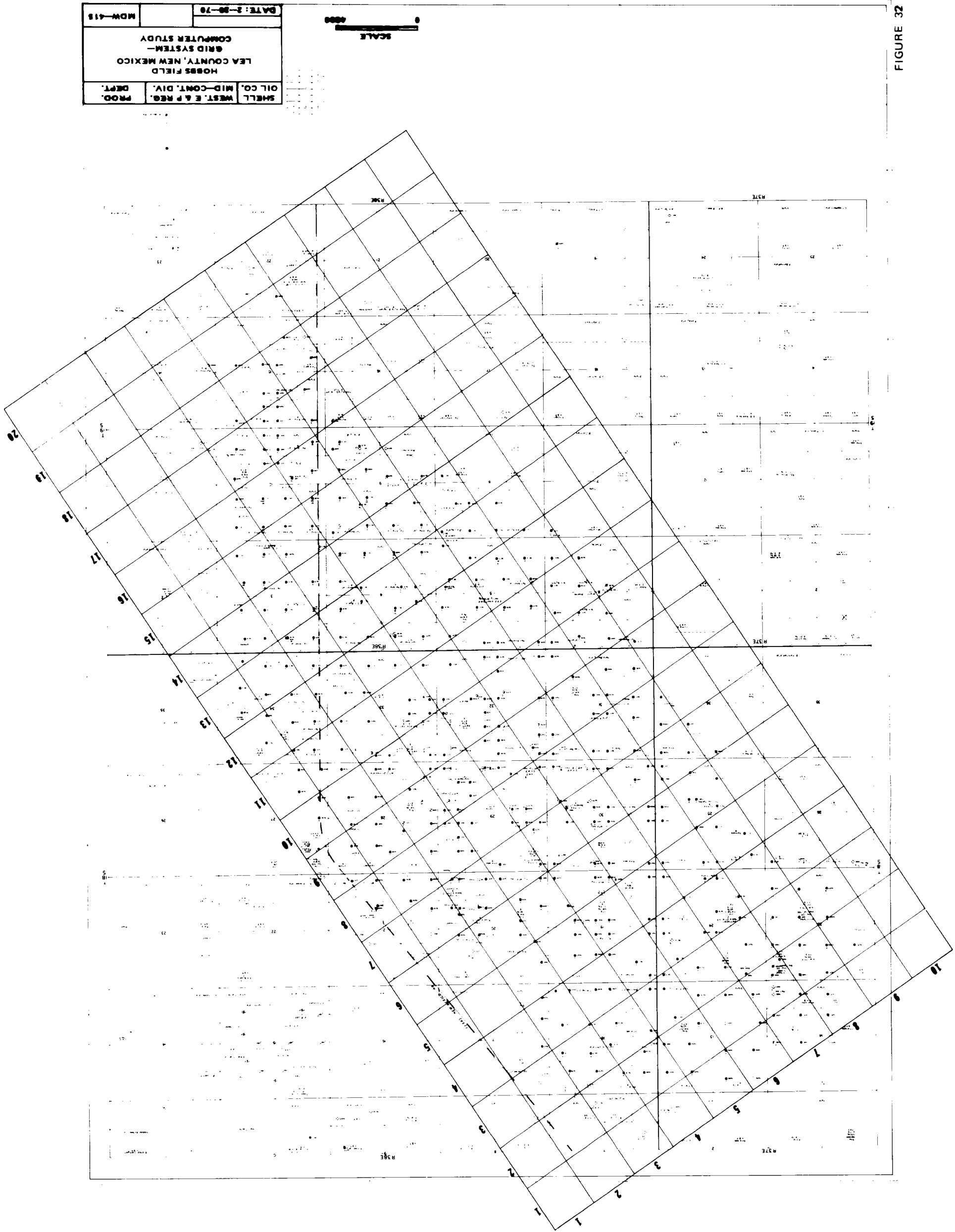
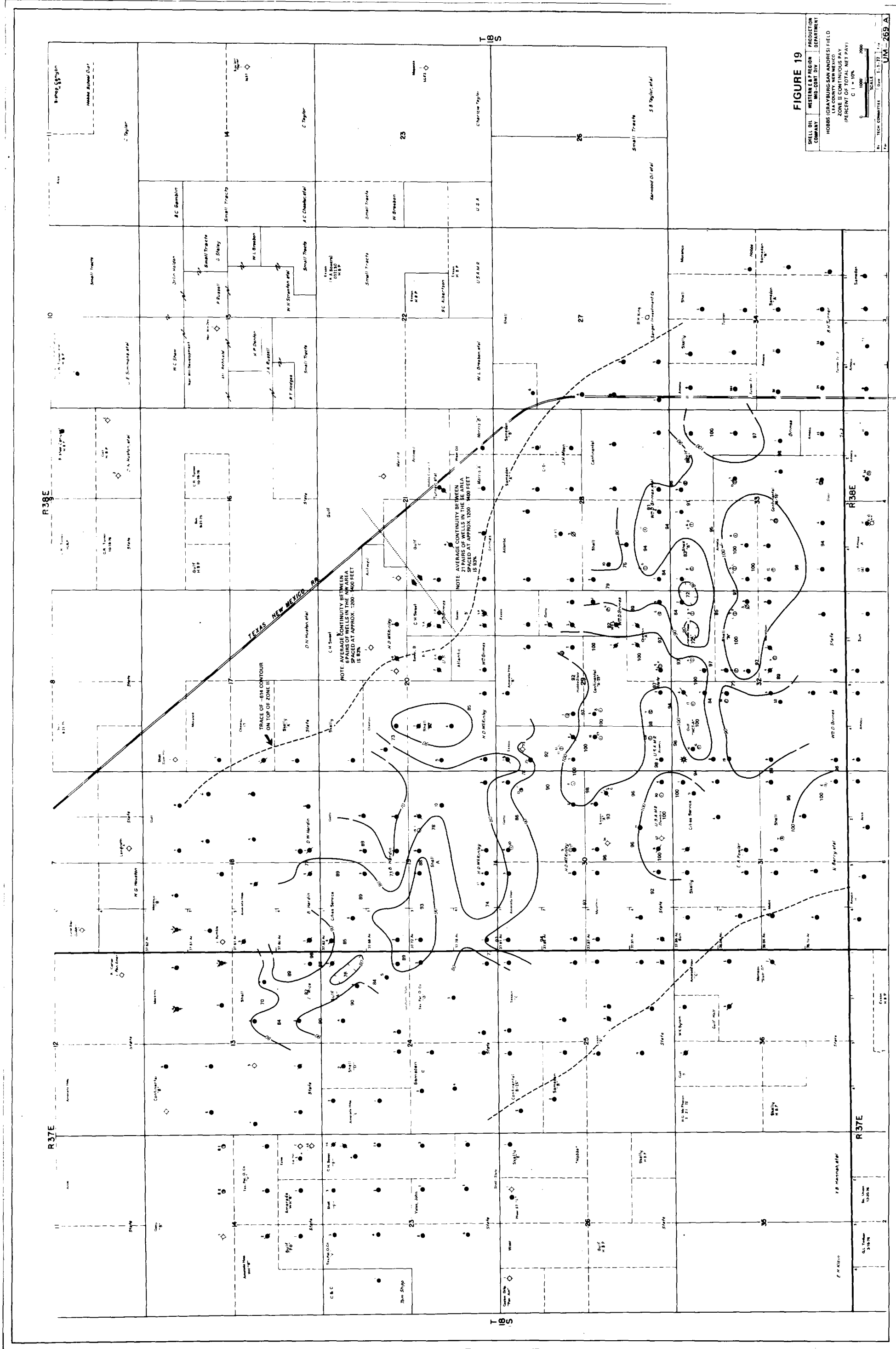


FIGURE 32





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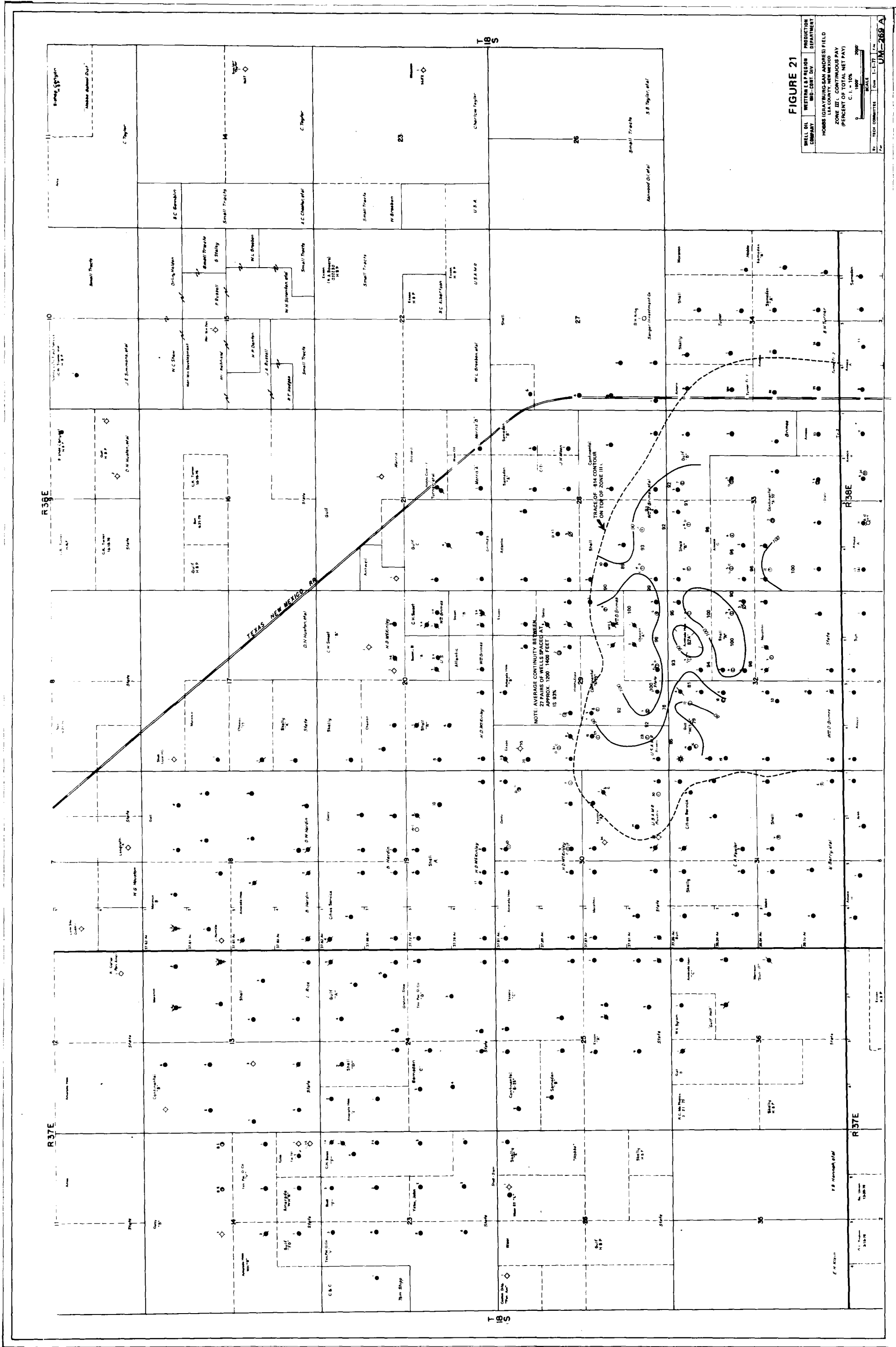
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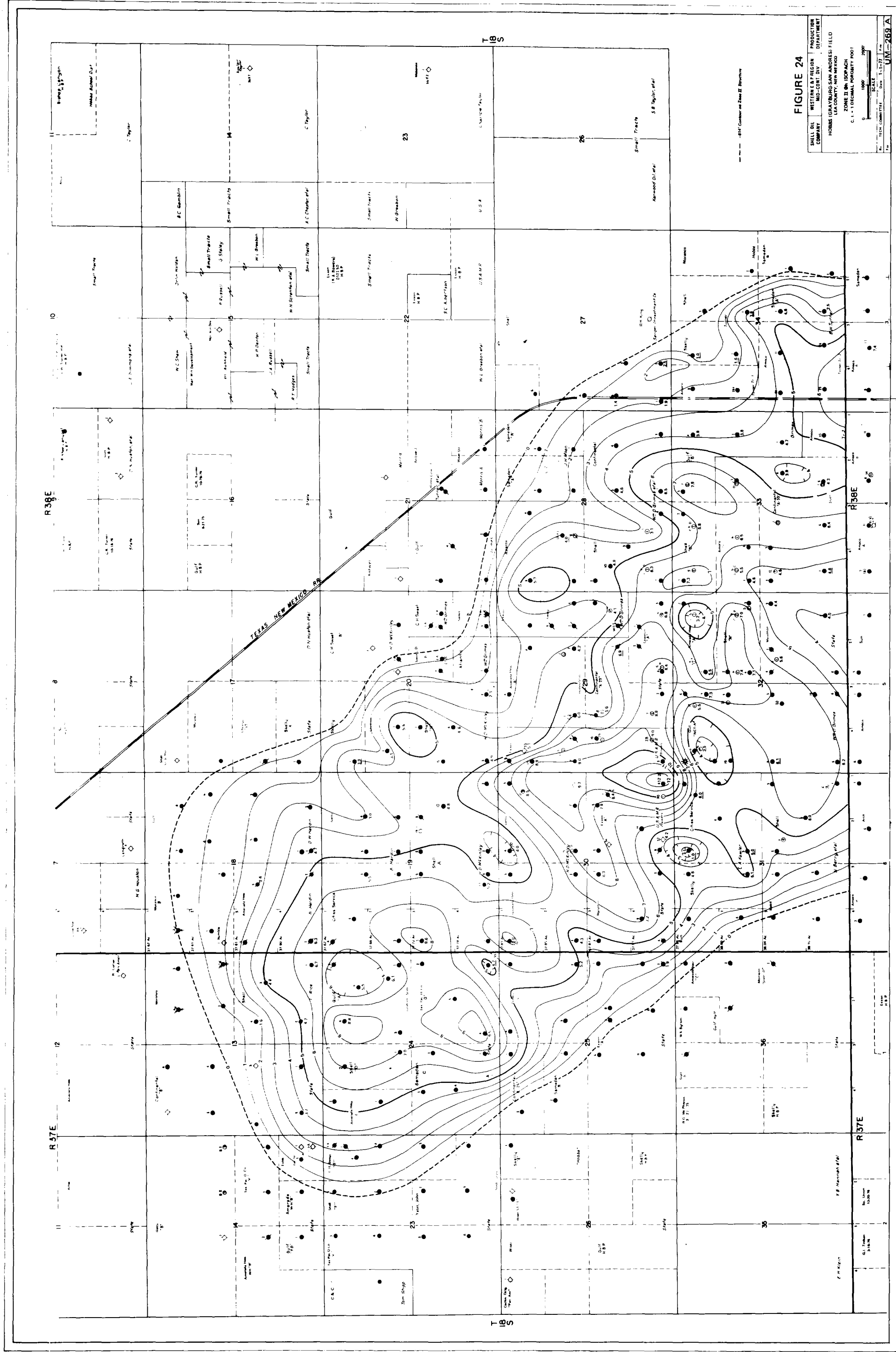
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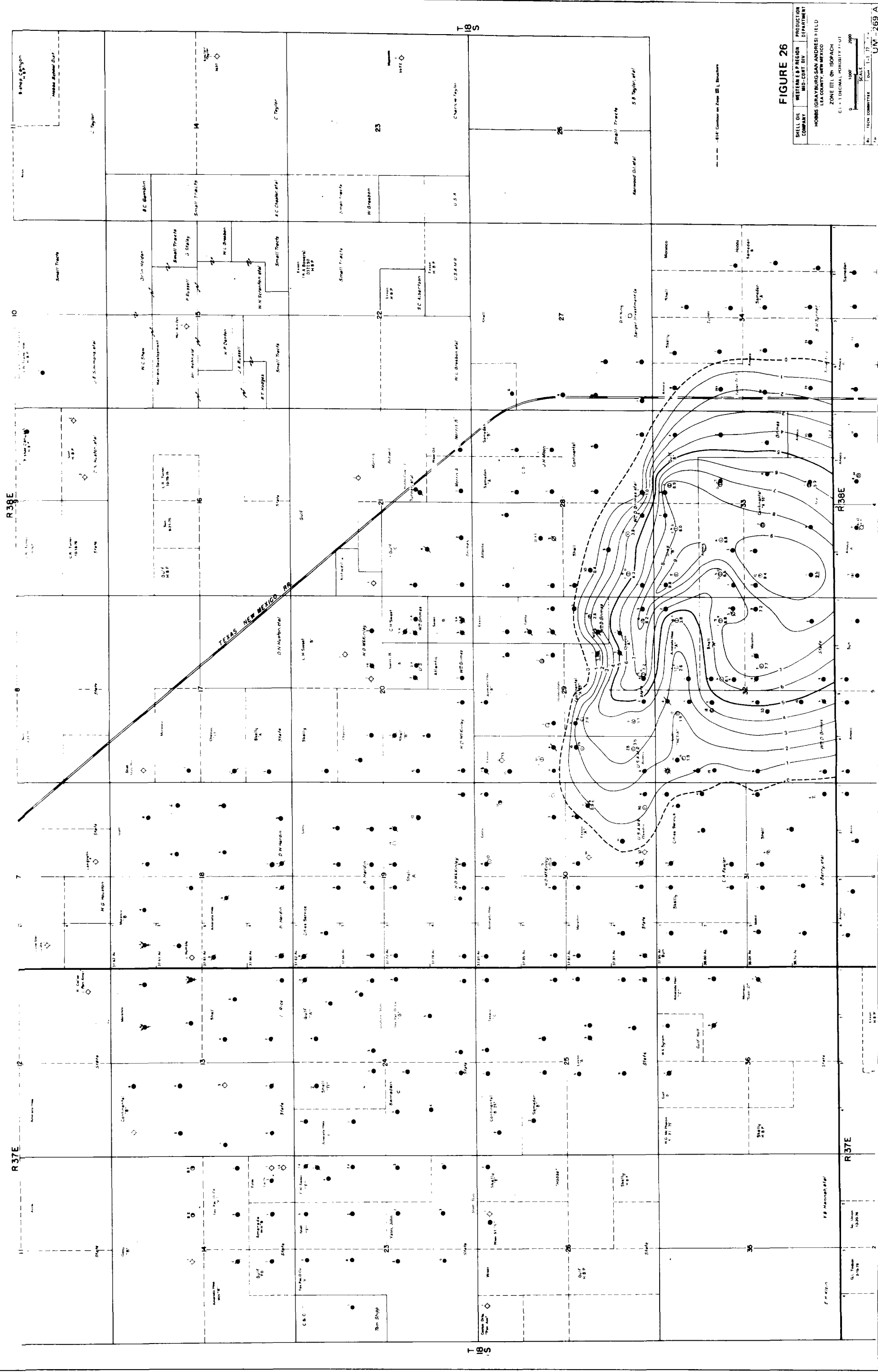
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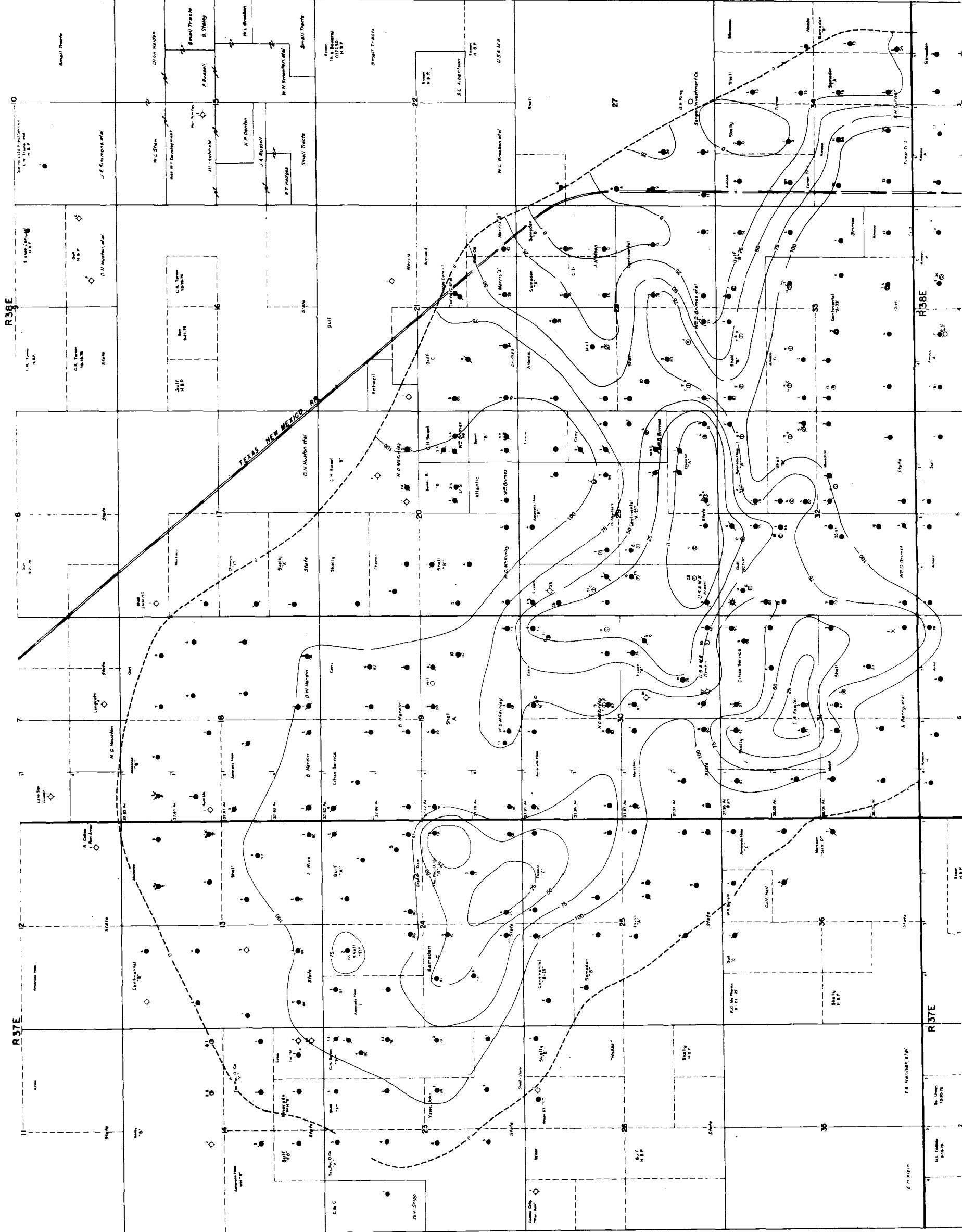
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FIGURE 27

SHELL OIL COMPANY	WESTERN CEMENT MID-CONT. DIV.	PRODUCTION DEPARTMENT	HOBBS (GRAYSON-SAN ANDRES) FIELD	
			LEA COUNTY, NEW MEXICO	
			ZONE 1 WATER CUT	
			CONTOUR INTERVAL - 20'	
			SCALE	
			0 1000' 2000'	
			DATE 1-1-77	
			BY TECH. COMMITTEE	
			UM-268A	



R38E

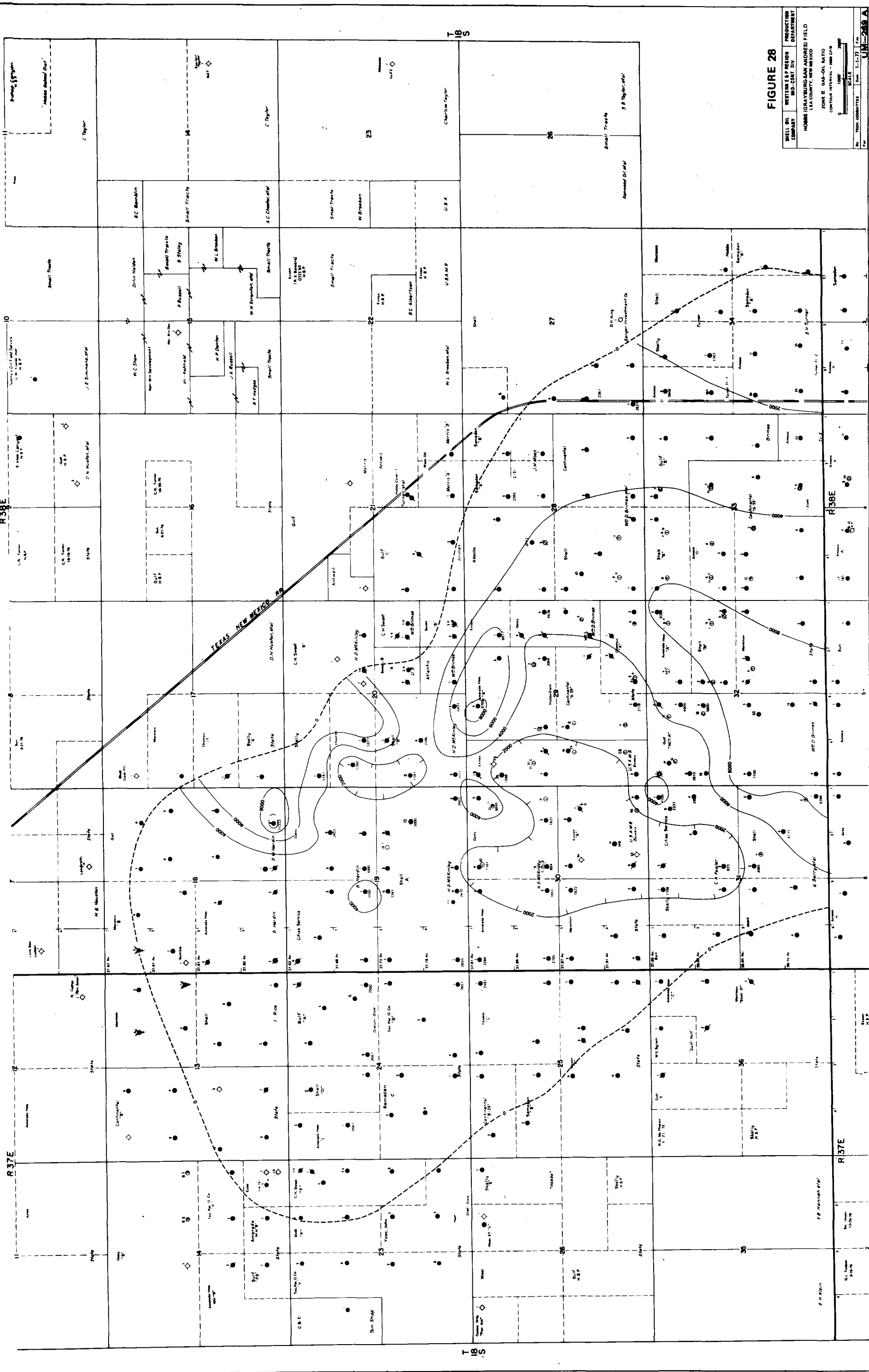
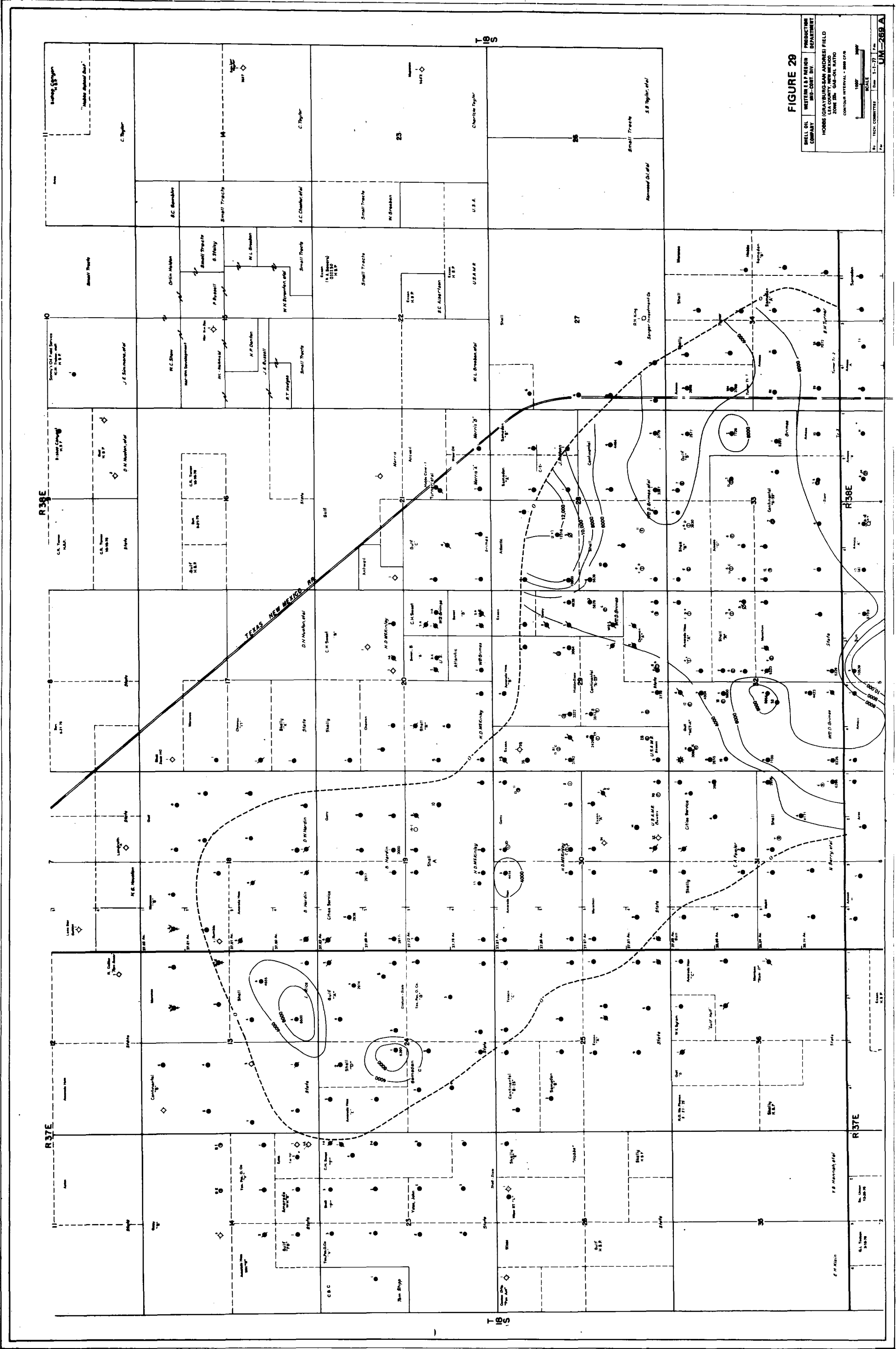
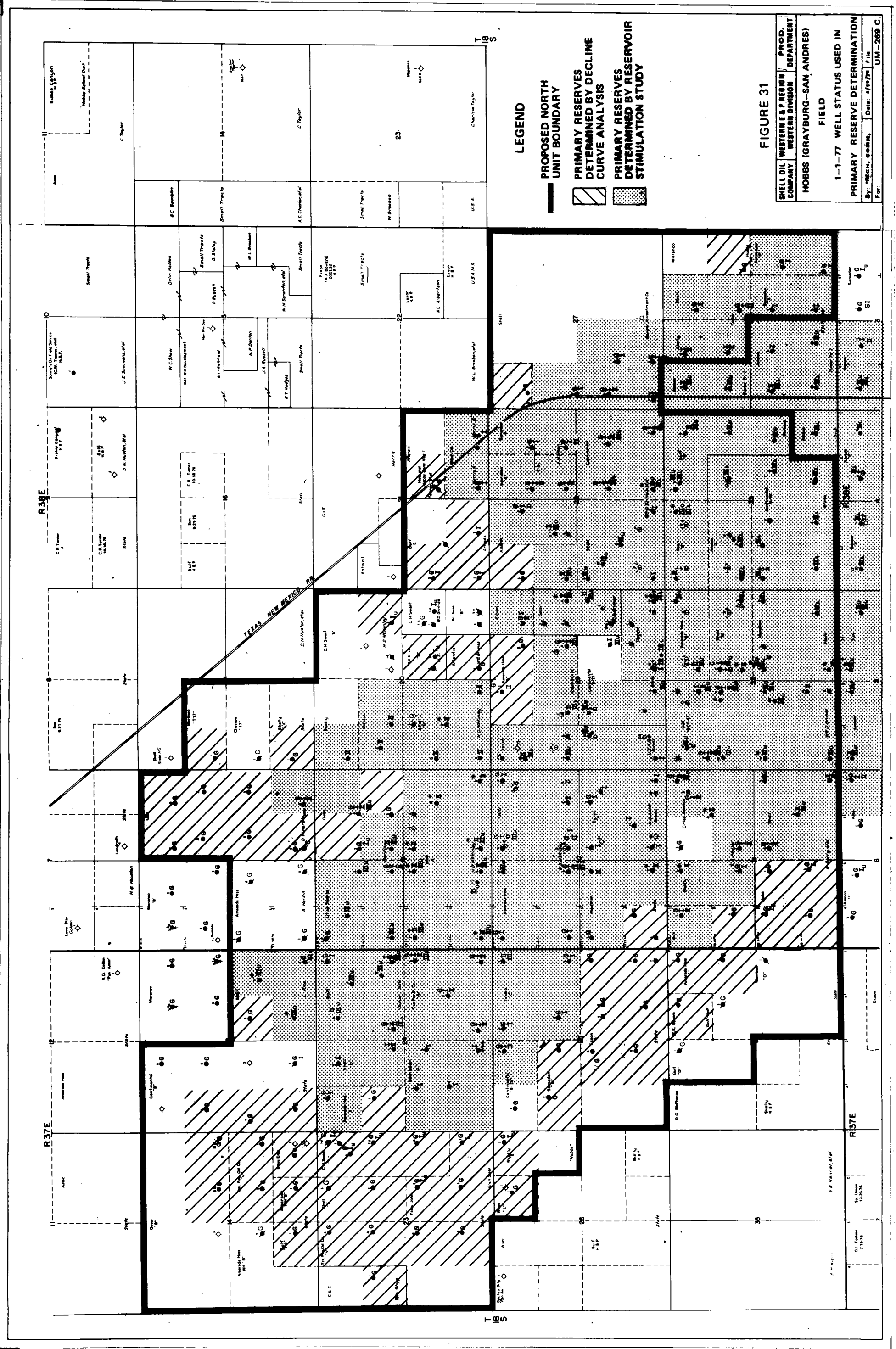
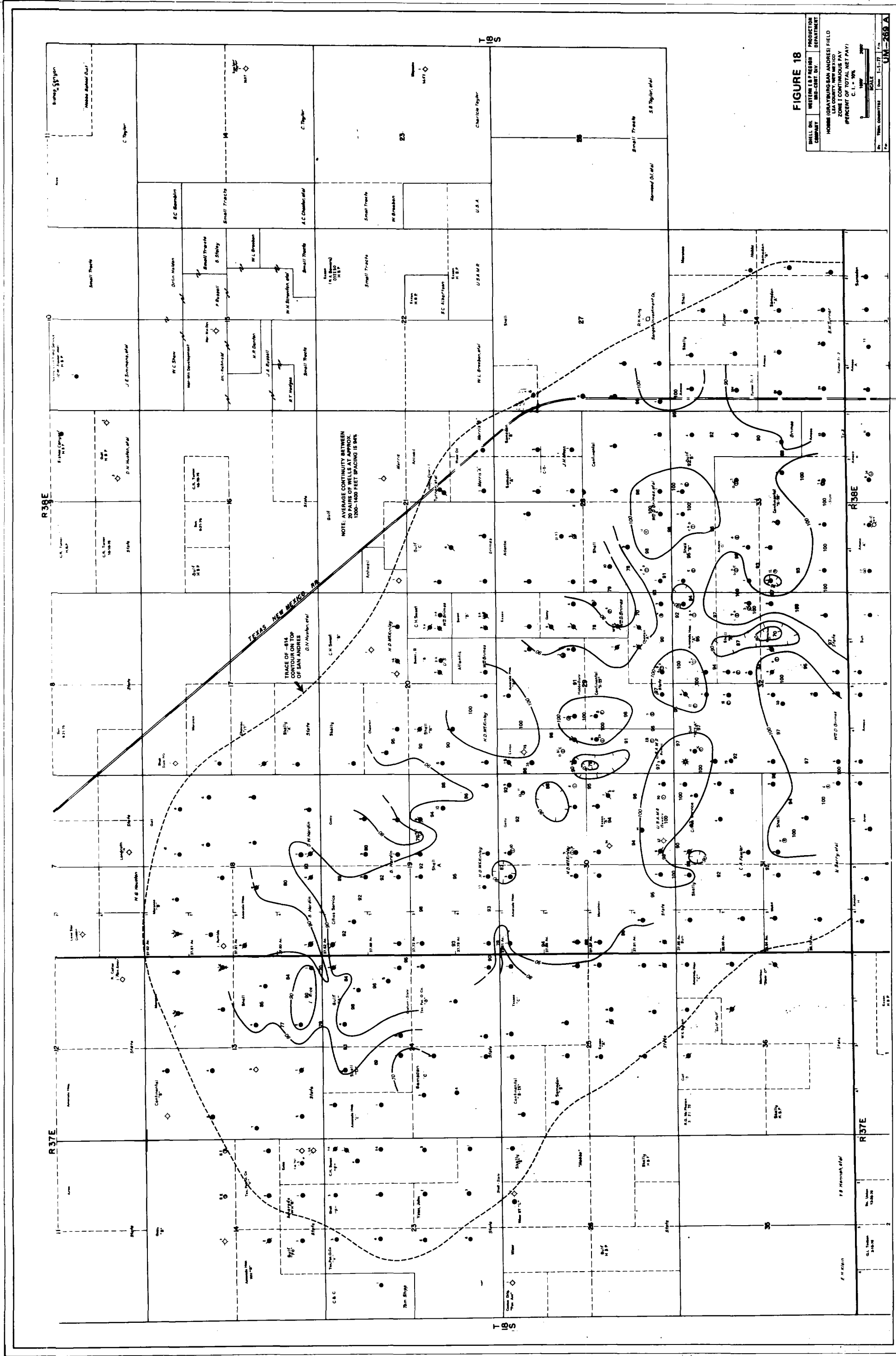


FIGURE 28

SHELL OIL COMPANY	WETERES L.P. REGION	MID-CONT. DIV.	PRODUCTION
HOBBS (GRAYBURG-SAN ANDRES) FIELD			
LEA COUNTY, NEW MEXICO			
ZONE II - GAS-OIL RATIO			
CONTOUR INTERVAL - 2000'			
SCALE 1:1000			
NORTH ARROW			
T18S			
R37E			
R38E			







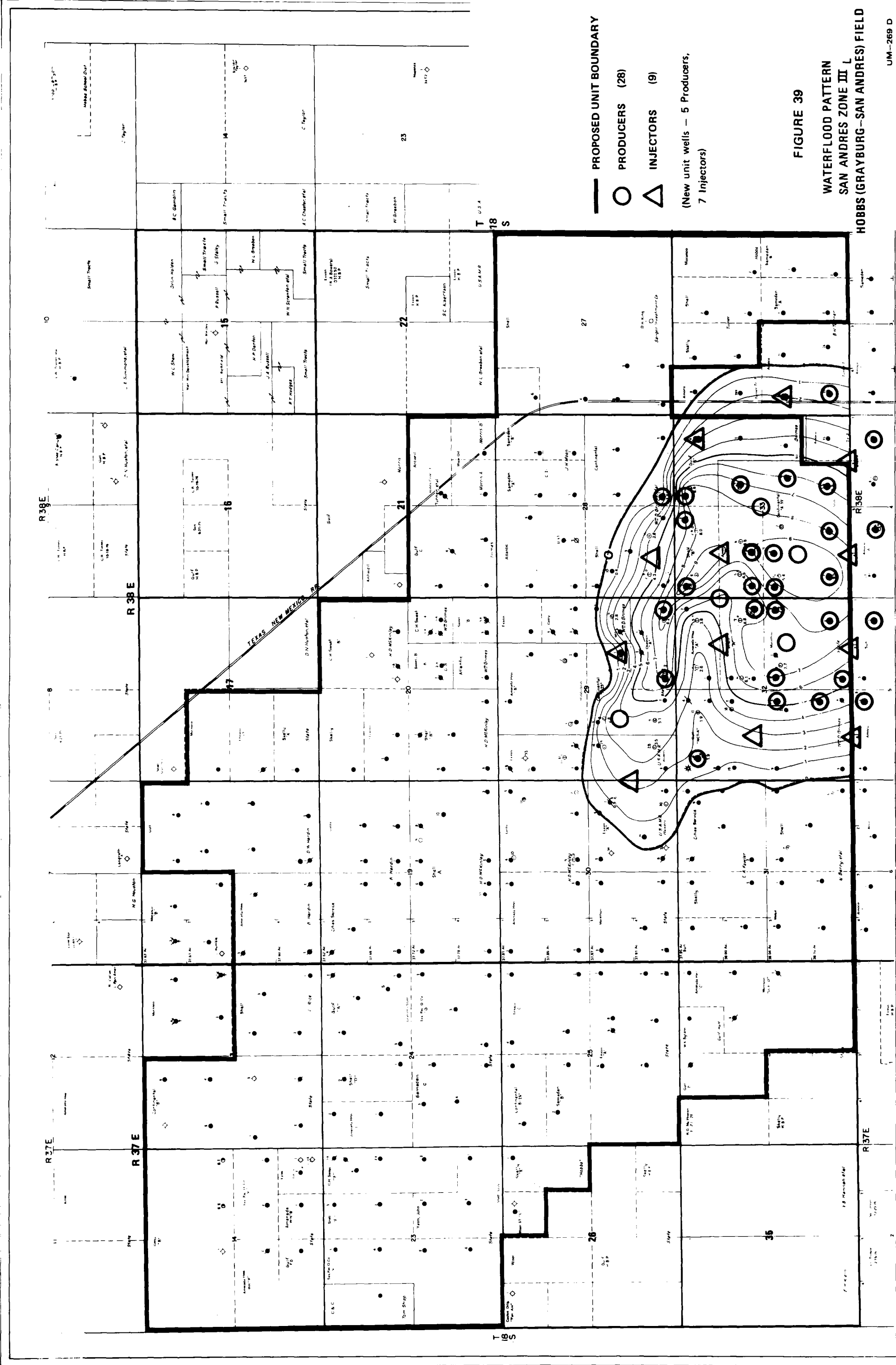
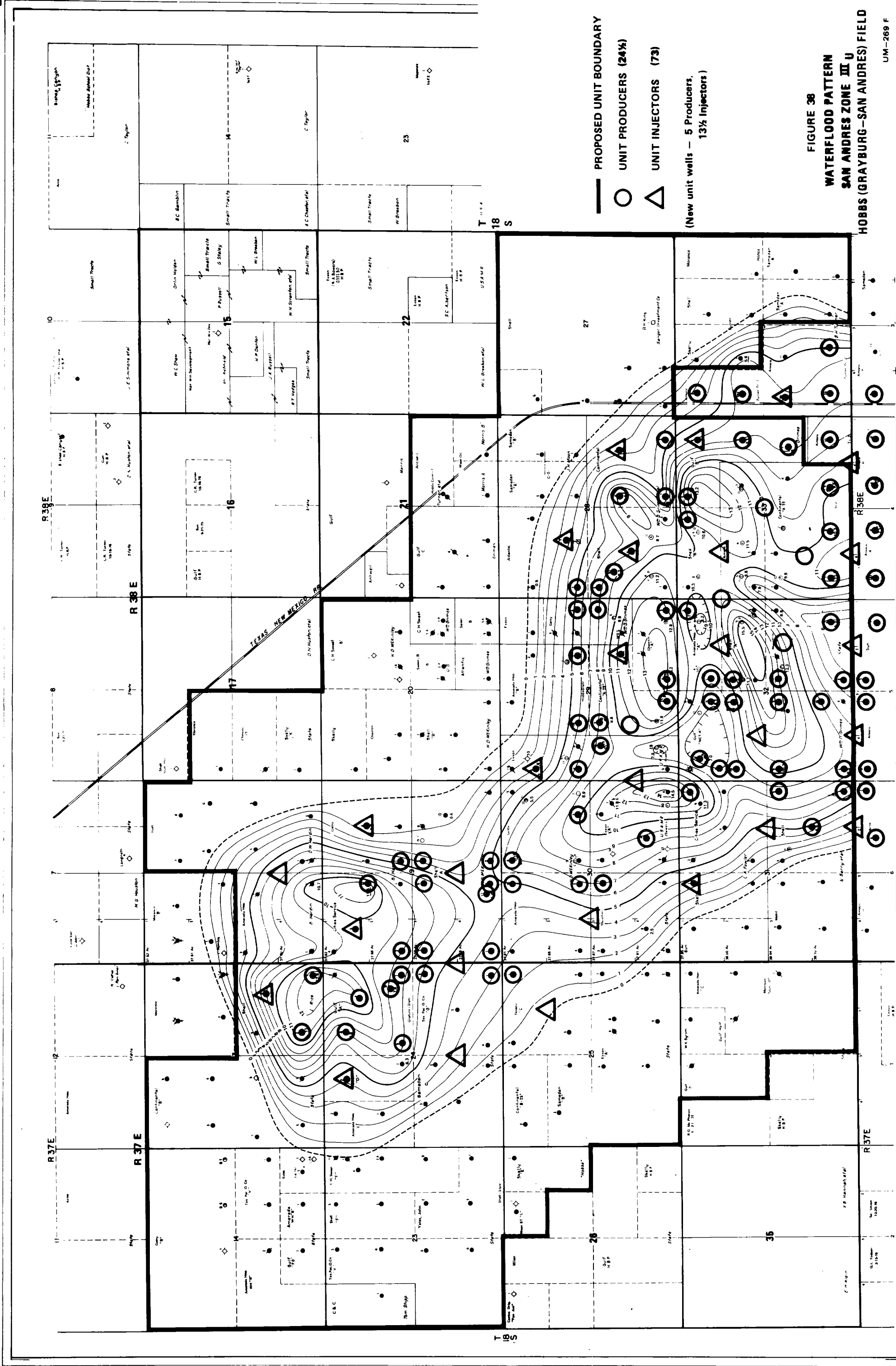


FIGURE 39

WATERFLOOD PATTERN
SAN ANDRES ZONE III L
HOBBS (GRAYBURG-SAN ANDRES) FIELD



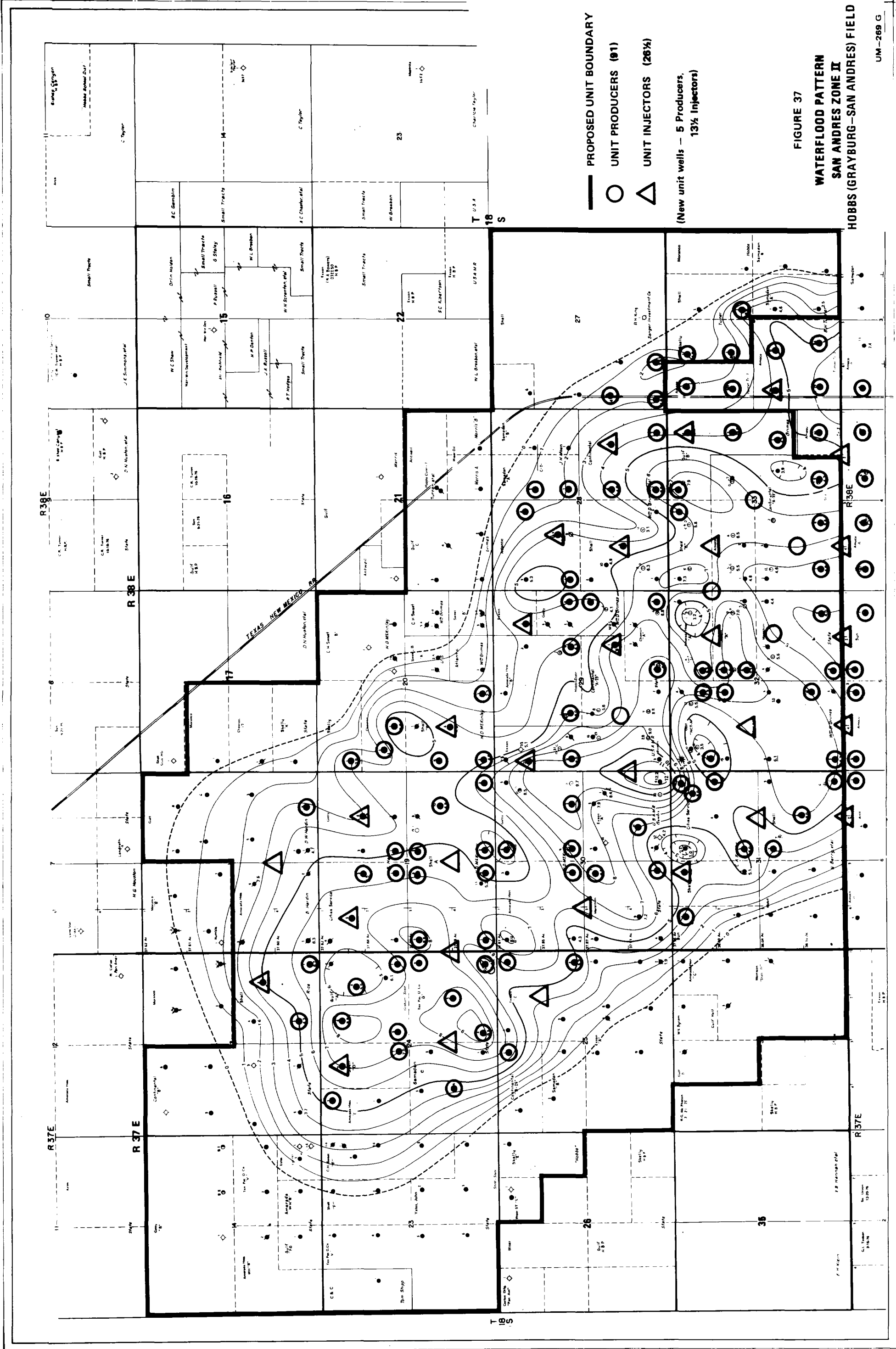


FIGURE 37
WATERFLOOD PATTERN
SAN ANDRES ZONE II
HOBBS (GRAYBURG-SAN ANDRES) FIELD
UM-269 G

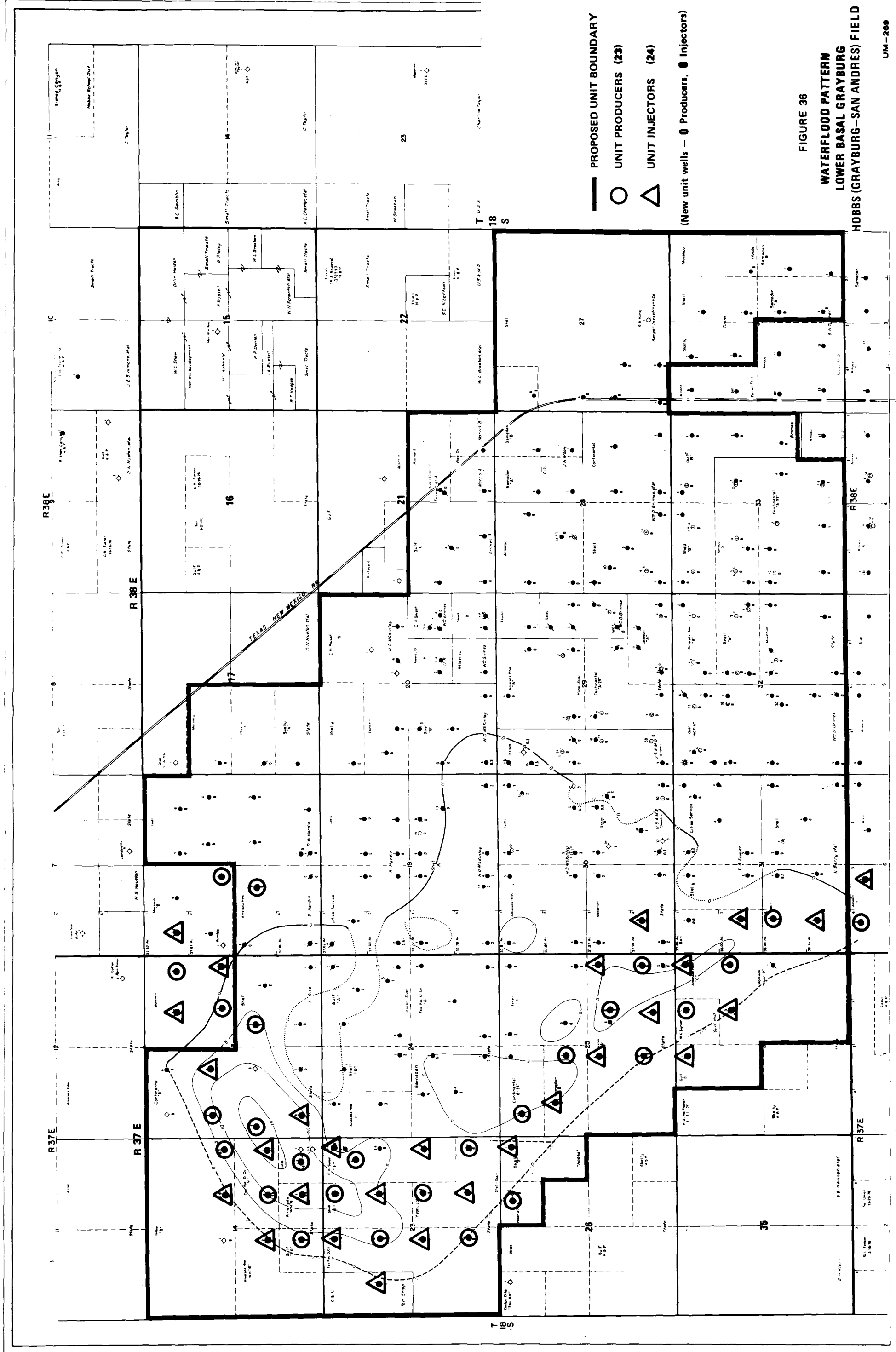


FIGURE 36
WATERFLOOD PATTERN
LOWER BASAL GRAYBURG
HOBBS (GRAYBURG-SAN ANDRES) FIELD

TABLE 21 B
UNITIZATION PARAMETERS - WELLS, PRODUCTION AND GAS CAP VOLUMETRICS

WID NO.	WORKING INTEREST OWNER	NO. OF WELLS 1/1/77			CUMULATIVE OIL PROD. 1/1/77			CURRENT PROD., YEAR 1978			ORIGINAL GAS CAP GAS IN PLACE										WID NO.	
		USEABLE		ACTIVE	BBLs.	%	OIL		GAS	GB UPPER		GB LOWER		GB TOTAL		S. A. ZONE I		UNIT TOTAL				
		NO.	%				BBLs.	%		MCF	%	MCF	%	MCF	%	MCF	%	MCF	%	MCF		%
1	AMERADA HESS CORP.	20.00	8.29875	14.00	6.30631	15768495	9.45367	197029	6.82481	485590	6.42535	5034980	11.10414	12.25355	11.1037	5046573	11.1037	1225901	14.23946	6292474	11.40729	1
2	AMERADA HESS CORP.	2.00	8.29875	2.00	6.30631	3327444	1.83210	54924	6.82481	40244	7.7215	881137	1.83210	0.00000	1.83222	881137	1.83222	882831	11.42647	1848444	3.44320	2
3	ANDERSON OIL & GAS	12.00	0.49779	12.00	0.49779	8807	0.00527	431	0.01573	3634	0.04009	24581	0.05419	0.00000	0.05390	24581	0.05390	0	0.00000	24581	0.05394	3
4	ANDERSON OIL & GAS	12.00	0.49779	12.00	0.49779	8807	0.00527	431	0.01573	3634	0.04009	24581	0.05419	0.00000	0.05390	24581	0.05390	0	0.00000	24581	0.05394	4
5	ANDERSON, W. D. AND SONS	23.00	0.95444	23.00	1.03660	17614	0.01055	863	0.03149	7269	0.09918	49162	0.10839	0.00000	0.10781	49162	0.10781	0	0.00000	49162	0.09649	5
6	ANDERSON, W. D. AND SONS	23.00	0.95444	23.00	1.03660	17614	0.01055	863	0.03149	7269	0.09918	49162	0.10839	0.00000	0.10781	49162	0.10781	0	0.00000	49162	0.09649	6
7	ATLANTIC RICHFIELD CO.	5.00	2.07469	5.00	2.25725	4052701	2.42663	72300	1.35855	221262	2.92775	76102	0.16779	0.00000	0.16688	76102	0.16688	0	0.00000	76102	0.14038	7
8	ATLANTIC RICHFIELD CO.	5.00	2.07469	5.00	2.25725	4052701	2.42663	72300	1.35855	221262	2.92775	76102	0.16779	0.00000	0.16688	76102	0.16688	0	0.00000	76102	0.14038	8
9	CCC OPERATING CO.	1.00	0.41494	1.00	0.45045	18532	0.01110	799	0.02916	42	0.00056	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	9
10	CHURCH & DWIGHT CO.	5.00	2.07469	5.00	2.25725	4052701	2.42663	72300	1.35855	221262	2.92775	76102	0.16779	0.00000	0.16688	76102	0.16688	0	0.00000	76102	0.14038	10
11	CITIES SERVICE OIL CO.	10.38	4.30705	8.38	3.77478	8063921	4.42843	94121	3.43454	80897	1.07093	3018275	6.45454	2.23221	6.63072	3023757	6.63072	0	0.00000	3023757	5.27771	11
12	COMBINE OIL CO.	0.06	0.02490	0.06	0.02490	35828	0.02145	551	0.01499	1133	0.01499	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	12
13	CONTINENTAL OIL CO.	22.00	9.12863	20.00	9.00901	15913814	9.52870	236024	9.34298	452536	8.63338	5938940	12.86794	11.97707	12.86792	5848054	12.86792	1635768	19.00027	7503822	13.84178	13
14	CUSACK, J. P.	76	3.1535	76	3.42734	431060	0.25810	8986	0.32791	28090	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	14
15	CUSACK, J. P.	76	3.1535	76	3.42734	431060	0.25810	8986	0.32791	28090	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	15
16	CUSACK, J. P.	76	3.1535	76	3.42734	431060	0.25810	8986	0.32791	28090	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	16
17	CUSACK, MICHAEL F.	1.00	0.41494	1.00	0.45045	749873	0.04900	19931	0.02730	49057	0.44912	16	0.00004	0.00000	0.00003	16	0.00003	0	0.00000	16	0.00003	17
18	CUSACK, MICHAEL F.	1.00	0.41494	1.00	0.45045	749873	0.04900	19931	0.02730	49057	0.44912	16	0.00004	0.00000	0.00003	16	0.00003	0	0.00000	16	0.00003	18
19	DELEA, J. C.	1.19	0.43328	1.19	0.43328	48334	0.04092	4128	0.52364	4425	0.00000	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	19
20	ELBERT, R. W.	0.04	0.02490	0.04	0.02490	3370	0.00281	79	0.02086	129	0.00171	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	20
21	ELBERT, R. W.	15.75	6.53527	14.75	6.64114	14379485	8.40999	161405	5.88977	727217	9.42254	3850945	8.48927	9.66871	8.49562	3874190	8.49562	402759	4.67825	4276949	7.88939	21
22	ELBERT, R. W.	0.08	0.03319	0.08	0.03319	66178	0.03762	2114	0.07714	2910	0.03521	8863	0.01954	0.00000	0.01944	8863	0.01944	0	0.00000	8863	0.01635	22
23	ELBERT, R. W.	0.07	0.02905	0.07	0.03153	44434	0.03434	2053	0.05433	2813	0.03521	8830	0.01803	0.00000	0.01799	8830	0.01799	0	0.00000	8830	0.01632	23
24	FORBES, ILLANAS	21.25	8.61743	21.25	9.52707	1693446	10.15719	236923	8.43452	693187	9.17728	3112093	6.86139	9.00158	6.87299	3134234	6.87299	16175	0.00000	8430	0.1134	24
25	GETTY OIL COMPANY	34.04	1.13278	31.04	1.39809	19244014	11.52222	258228	10.40024	1081305	13.40127	7353434	14.21292	25.97258	14.24534	7417420	14.24534	1208559	14.45267	842339	15.8134	25
26	GULF ENERGY & MINERALS	77	0.91229	77	0.91229	117119	0.07013	1365	0.09981	7357	0.09725	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	26
27	HEADLEY, KENNETH NOEL	0.4	0.02490	0.4	0.02490	35828	0.02145	551	0.01499	1133	0.01499	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	27
28	HEADLEY, KENNETH NOEL	0.4	0.02490	0.4	0.02490	35828	0.02145	551	0.01499	1133	0.01499	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	28
29	JUDSON, RUBY WANDA CO. INC.	0.01	0.00415	0.01	0.00415	7166	0.00429	110	0.00401	227	0.00390	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	29
30	KEMNITZ, A. A.	1.15	0.47218	1.15	0.47218	1001371	0.59359	31955	1.64752	44028	0.58258	134114	0.25548	0.00000	0.25410	134114	0.25410	0	0.00000	134114	0.24320	30
31	LAFLIN, GEORGE P.	0.05	0.02075	0.05	0.02075	3370	0.00281	79	0.02086	129	0.00171	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	31
32	LOPEZ, M. RAFAEL	0.25	0.10373	0.25	0.10373	13881	0.02029	1355	0.04944	4357	0.08312	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	32
33	MARATHON OIL COMPANY	8.00	3.31950	8.00	3.60360	8892553	5.32459	79953	2.91754	253567	3.35521	3271114	7.21189	0.00000	7.17315	3271114	7.17315	19023	2.21456	3461937	6.38400	33
34	MCCARTHY, KATHY L. C.	0.01	0.00415	0.01	0.00415	7166	0.00429	110	0.00401	227	0.00390	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	34
35	MCPETERS, K. D.	0.12	0.04979	0.12	0.05405	11397	0.00462	372	0.01357	1383	0.01390	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	35
36	MCPETERS, K. D.	0.12	0.04979	0.12	0.05405	11397	0.00462	372	0.01357	1383	0.01390	0	0.00000	0.00000	0.00000	0	0.00000	0	0.00000	0	0.00000	36
37	MCPHERSON, MARGARET M.	0.18	0.02469	0.18	0.02469	35804	0															

TABLE 22 A
UNITIZATION PARAMETERS - ORIGINAL OIL IN PLACE

TR. NO.	TRACT NAME - LEASE	PRODUCTIVE ACRES		UPPER ZONE		LOWER ZONE		TOTALS		ZONE I		ZONE II		ZONE III U		ZONE III L		TOTALS		UNIT TOTALS		TR. NO.
		ACRES	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	STB	%	
1	GETTY - STATE N	123.40	1.54567	670857	1.21982	53267	0.61076	724124	1.17617	11916	0.00694	0	0.00000	0	0.00000	0	0.00000	11916	0.00000	736040	1.2233	1
2	AMERADA MESS-STATE-4MB	123.40	1.54567	1091704	1.84434	26470	0.00288	1048174	1.73360	13930	0.00148	3538	0.00038	0	0.00000	0	0.00000	13930	0.00148	1048174	1.73360	2
3	GULF - LEA FC STATE	40.00	0.51399	39384	0.71631	39225	0.59703	433169	0.70358	36568	0.00000	0	0.00000	0	0.00000	0	0.00000	36568	0.00000	433169	0.70358	3
4	TEXAS PACIFIC-STATE-4 ACI	80.00	1.02799	108239	1.87070	32118	0.00333	105027	1.80737	36568	0.00000	21302	0.00022	0	0.00000	0	0.00000	36568	0.00022	105027	1.80737	4
5	ESTES ENGR - STATE N 13	40.00	0.51399	40301	0.77332	28499	0.45337	70180	1.13991	32138	0.00377	205727	0.30737	2281	0.00000	0	0.00000	32138	0.00377	70180	1.13991	5
6	CONTINENTAL - STATE N 13	262.40	3.34125	1430927	2.40182	1124513	1.71742	2554436	4.11824	131032	0.00138	1438404	0.00147	0	0.00000	0	0.00000	131032	0.00138	2554436	4.11824	6
7	SHELL - RESS	54.40	0.70417	65700	1.1946	17481	0.00261	240571	0.39075	313735	0.00335	215734	0.00023	5711346	0.00000	0	0.00000	313735	0.00335	240571	0.39075	7
8	AMERADA MESS - R. MALDIN	148.40	1.90128	228243	0.41443	20288	0.00288	206031	0.00300	4069474	1.55953	1654037	0.00000	156420	0.00000	0	0.00000	4069474	1.55953	206031	0.00300	8
9	GULF - ORN. HARTLEY	318.40	4.09781	1631476	2.97015	0	0.00000	1631476	2.97015	51017	0.00023	1489	0.00000	0	0.00000	0	0.00000	51017	0.00023	1631476	2.97015	9
10	MORANCO - STATE I 17	41.40	0.53543	20824	0.38130	0	0.00000	20824	0.38130	34041	0.00044	0	0.00000	0	0.00000	0	0.00000	34041	0.00044	20824	0.38130	10
11	CHEVRON - STATE I 17	80.00	1.02799	326430	0.59131	0	0.00000	326430	0.59131	281615	0.00409	0	0.00000	0	0.00000	0	0.00000	281615	0.00409	326430	0.59131	11
12	GETTYSKILL-STATE-A	80.00	1.02799	402190	0.73130	0	0.00000	402190	0.73130	753007	0.00114	134429	0.00000	0	0.00000	0	0.00000	753007	0.00114	402190	0.73130	12
13	ANTHONY-HORNS COME TOWNS	80.00	1.02799	18219	0.3242	0	0.00000	18219	0.3242	6903	0.00000	0	0.00000	0	0.00000	0	0.00000	6903	0.00000	18219	0.3242	13
14	WISER - MORRIS A	40.00	0.51399	94212	1.7131	0	0.00000	94212	1.7131	143787	0.00174	0	0.00000	0	0.00000	0	0.00000	143787	0.00174	94212	1.7131	14
15	WISER - MORRIS A	40.00	0.51399	162458	0.29520	0	0.00000	162458	0.29520	586505	0.00174	0	0.00000	0	0.00000	0	0.00000	586505	0.00174	162458	0.29520	15
16	GULF - MORRIS A	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000	0	0.00000	0	0.00000	23244	0.00000	264458	0.4825	16
17	ATLANTIC RICH-GRIMES	40.00	0.51399	330782	0.60146	0	0.00000	330782	0.60146	1032421	0.00168	0	0.00000	0	0.00000	0	0.00000	1032421	0.00168	330782	0.60146	17
18	GULF - MORRIS A	160.00	2.04597	595770	1.09329	0	0.00000	595770	1.09329	176829	0.00000	0	0.00000	0	0.00000	0	0.00000	176829	0.00000	595770	1.09329	18
19	GETTYSKILL-STATE-MCGILL	80.00	1.02799	402190	0.73130	0	0.00000	402190	0.73130	753007	0.00114	0	0.00000	0	0.00000	0	0.00000	753007	0.00114	402190	0.73130	19
20	CHEVRON - STATE F	80.00	1.02799	53369	0.99833	0	0.00000	53369	0.99833	131032	0.00138	0	0.00000	0	0.00000	0	0.00000	131032	0.00138	53369	0.99833	20
21	CHEVRON - STATE F	40.00	0.51399	22452	0.41443	0	0.00000	22452	0.41443	82514	0.00000	0	0.00000	0	0.00000	0	0.00000	82514	0.00000	22452	0.41443	21
22	ATLANTIC RICH-GRIMES	40.00	0.51399	330782	0.60146	0	0.00000	330782	0.60146	1032421	0.00168	0	0.00000	0	0.00000	0	0.00000	1032421	0.00168	330782	0.60146	22
23	GULF - MORRIS A	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000	0	0.00000	0	0.00000	23244	0.00000	264458	0.4825	23
24	SHELL - STATE F	47.70	0.61993	266462	0.49451	77163	0.00114	266462	0.49451	1459593	0.00168	0	0.00000	0	0.00000	0	0.00000	1459593	0.00168	266462	0.49451	24
25	AMERADA MESS-STATE-A	171.30	2.20597	210244	0.38130	138832	0.00194	210244	0.38130	138832	0.00194	0	0.00000	0	0.00000	0	0.00000	138832	0.00194	210244	0.38130	25
26	GULF - MORRIS A	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000	0	0.00000	0	0.00000	23244	0.00000	264458	0.4825	26
27	CITIES SERVICE - HAROLD	88.20	1.13334	138249	0.25414	12458	0.00000	138249	0.25414	111027	0.00000	0	0.00000	0	0.00000	0	0.00000	111027	0.00000	138249	0.25414	27
28	SHELL - STATE F	47.70	0.61993	266462	0.49451	77163	0.00114	266462	0.49451	1459593	0.00168	0	0.00000	0	0.00000	0	0.00000	1459593	0.00168	266462	0.49451	28
29	GULF - MORRIS A	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000	0	0.00000	0	0.00000	23244	0.00000	264458	0.4825	29
30	AMERADA MESS-STATE-A	171.30	2.20597	210244	0.38130	138832	0.00194	210244	0.38130	138832	0.00194	0	0.00000	0	0.00000	0	0.00000	138832	0.00194	210244	0.38130	30
31	TEXAS PACIFIC-STATE-A	77.10	0.99124	191124	0.3519	152420	0.00000	191124	0.3519	152420	0.00000	0	0.00000	0	0.00000	0	0.00000	152420	0.00000	191124	0.3519	31
32	SAMEX - STATE F	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000	0	0.00000	0	0.00000	23244	0.00000	264458	0.4825	32
33	CHEVRON - STATE F	120.00	1.54198	317894	0.57953	351661	0.00000	317894	0.57953	351661	0.00000	0	0.00000	0	0.00000	0	0.00000	351661	0.00000	317894	0.57953	33
34	SHELL - STATE F	80.00	1.02799	822394	1.50791	352031	0.00000	822394	1.50791	352031	0.00000	0	0.00000	0	0.00000	0	0.00000	352031	0.00000	822394	1.50791	34
35	TEXAS PACIFIC-STATE-A	240.00	3.06196	1607796	2.91437	175139	0.00000	1607796	2.91437	175139	0.00000	0	0.00000	0	0.00000	0	0.00000	175139	0.00000	1607796	2.91437	35
36	CHEVRON - STATE F	120.00	1.54198	317894	0.57953	351661	0.00000	317894	0.57953	351661	0.00000	0	0.00000	0	0.00000	0	0.00000	351661	0.00000	317894	0.57953	36
37	CHEVRON - STATE F	120.00	1.54198	317894	0.57953	351661	0.00000	317894	0.57953	351661	0.00000	0	0.00000	0	0.00000	0	0.00000	351661	0.00000	317894	0.57953	37
38	WISER - STATE I	40.00	0.51399	94212	1.7131	0	0.00000	94212	1.7131	143787	0.00000	0	0.00000	0	0.00000	0	0.00000	143787	0.00000	94212	1.7131	38
39	GETTYSKILL - STATE-A	79.30	1.01899	864092	1.57482	26043	0.00000	864092	1.57482	26043	0.00000	0	0.00000	0	0.00000	0	0.00000	26043	0.00000	864092	1.57482	39
40	CONTINENTAL - STATE-A	80.00	1.02799	106741	0.19124	19124	0.00000	106741	0.19124	19124	0.00000	0	0.00000	0	0.00000	0	0.00000	19124	0.00000	106741	0.19124	40
41	AMERADA MESS-STATE-A	171.30	2.20597	210244	0.38130	138832	0.00194	210244	0.38130	138832	0.00194	0	0.00000	0	0.00000	0	0.00000	138832	0.00194	210244	0.38130	41
42	TEXACO - STATE-A	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000	0	0.00000	0	0.00000	23244	0.00000	264458	0.4825	42
43	EXXON - STATE-A	297.70	3.85940	3375119	6.04607	426718	0.00000	3375119	6.04607	426718	0.00000	0	0.00000	0	0.00000	0	0.00000	426718	0.00000	3375119	6.04607	43
44	AMERADA - STATE-A	74.30	0.96044	113007	0.20548	214681	0.00000	113007	0.20548	214681	0.00000	0	0.00000	0	0.00000	0	0.00000	214681	0.00000	113007	0.20548	44
45	GETTY - STATE-A	82.70	1.06248	119957	0.51781	203440	0.00000	119957	0.51781	203440	0.00000	0	0.00000	0	0.00000	0	0.00000	203440	0.00000	119957	0.51781	45
46	MARATHON-STATE-A	153.20	1.96600	1445136	2.62769	274333	0.00000	1445136	2.62769	274333	0.00000	0	0.00000	0	0.00000	0	0.00000	274333	0.00000	1445136	2.62769	46
47	EXXON-ROBERTS A FEDERAL	44.00	0.56993	438024	0.80414	44131	0.00000	438024	0.80414	44131	0.00000	0	0.00000	0	0.00000	0	0.00000	44131	0.00000	438024	0.80414	47
48	AMERADA - STATE-A	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000	0	0.00000	0	0.00000	23244	0.00000	264458	0.4825	48
49	EXXON - STATE-A	160.00	2.04597	264458	0.4825	0	0.00000	264458	0.4825	23244	0.00000	0	0.00000									

TABLE 22 B
UNITIZATION PARAMETERS - ORIGINAL OIL IN PLACE

WIO NO.	WORKING INTEREST OWNER	PRODUCTIVE		BASAL GRAYBURG				SAN ANDRES				TOTALS		UNIT			
		ACRES		%		UPPER ZONE		%		LOWER ZONE		%		TOTALS		%	
		ACS.	STB	%	STB	ACS.	STB	%	STB	ACS.	STB	%	STB	TOTALS	STB	%	WIO NO.
1	AMERADA HESS CORP.	791.55	10,171.29	100.0000	5799871	10,527.73	485444	7.38866	6279319	10,172.77	13237833	7,713.32	13654432	8,914.95	42470521	8,914.95	1
2	AMOCO PRODUCTION CO.	4.69	60.67	0.0000	47262	532.42	34980	0.53242	88292	0.0000	944094	0.0000	944094	1.022459	1022459	1.022459	2
3	ANDERSON AIA A	4.69	60.67	0.0000	47262	532.42	34980	0.53242	88292	0.0000	944094	0.0000	944094	1.022459	1022459	1.022459	3
4	ANDERSON EST. - ARBEND	4.69	60.67	0.0000	47262	532.42	34980	0.53242	88292	0.0000	944094	0.0000	944094	1.022459	1022459	1.022459	4
5	ANDERSON, N. D. AND SONS	9.37	120.40	0.0000	94524	1178.87	69961	1.06466	164465	2.0717	122189	0.7120	122189	0.7120	122189	0.7120	5
6	ARMSTRONG, J. M.	9.37	120.40	0.0000	94524	1178.87	69961	1.06466	164465	2.0717	122189	0.7120	122189	0.7120	122189	0.7120	6
7	ATLANTIC RICHFIELD CO.	200.00	2,569.97	100.0000	147813	2,569.97	147813	100.0000	147813	2,569.97	526234	3,070.24	526234	3,070.24	526234	3,070.24	7
8	ATLANTIC RICHFIELD CO.	23.44	303.20	100.0000	34980	434.11	147813	100.0000	147813	2,569.97	526234	3,070.24	526234	3,070.24	526234	3,070.24	8
9	CAC OPERATING CO.	75.20	944.31	100.0000	141676	2,943.4	1170	0.1781	163046	2,248.3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9
10	CHEVRON OIL COMPANY	140.00	2,055.87	100.0000	858889	1,653.28	858889	100.0000	858889	1,653.28	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10
11	CITIZENS SERVICE OIL CO.	261.80	3,349.09	100.0000	1314966	2,379.42	14674	0.14674	1333170	2,165.42	9579113	5,591.53	11847378	7,620.93	30217742	5,591.53	11
12	CONRAD HART DALLIE	2.50	32.12	0.0000	10147	126.84	0	0.0000	10147	126.84	36467	0.0000	36467	0.0000	36467	0.0000	12
13	CONTINENTAL OIL CO.	512.80	6,596.68	100.0000	3125268	5,677.77	1372681	20.89318	4498249	7,301.47	18678642	10,488.52	23047358	14,831.54	69785272	13,851.74	13
14	CRILE, HERALDO	3.25	40.89	100.0000	18250	224.24	0	0.0000	18250	224.24	54988	0.0000	54988	0.0000	54988	0.0000	14
15	CUSACK, J. P.	25.72	330.50	100.0000	58473	738.82	0	0.0000	58473	738.82	50585	0.7928	50585	0.7928	50585	0.7928	15
16	CUSACK, MICHAEL F.	40.00	513.97	100.0000	182483	231.81	0	0.0000	182483	231.81	1021174	1,235.4	1021174	1,235.4	1021174	1,235.4	16
17	DEL-LEA, LAMAR	2.90	37.26	100.0000	18250	224.24	0	0.0000	18250	224.24	32584	0.0000	32584	0.0000	32584	0.0000	17
18	DEL-LEA, LAMAR	2.90	37.26	100.0000	18250	224.24	0	0.0000	18250	224.24	32584	0.0000	32584	0.0000	32584	0.0000	18
19	DEL-LEA, LAMAR	2.90	37.26	100.0000	18250	224.24	0	0.0000	18250	224.24	32584	0.0000	32584	0.0000	32584	0.0000	19
20	EXXON COMPANY - HESS	433.70	5,577.97	100.0000	4244568	7,790.63	494453	7.55637	4781021	7,790.63	12819691	7,469.48	12819691	7,469.48	39770470	7,469.48	20
21	FIRST RUSSELL COMPANY	5.80	73.53	100.0000	18250	224.24	0	0.0000	18250	224.24	4781	0.0000	4781	0.0000	4781	0.0000	21
22	FORBES CO.	3.04	39.04	100.0000	40940	511.75	9540	0.14551	50520	0.0000	60973	0.0000	60973	0.0000	60973	0.0000	22
23	FORBES, ILA	2.56	33.04	100.0000	30883	390.83	9308	0.14167	50520	0.0000	60973	0.0000	60973	0.0000	60973	0.0000	23
24	GETTY OIL COMPANY	875.42	11,249.00	100.0000	640367	8,171.053	364135	5.54239	6804502	11,053.30	1328733	9,512.55	13729077	7,141.95	41996883	8,034.92	24
25	GULF ENERGY & MINERALS	282.20	3,528.10	100.0000	338843	4,217.07	1,511.17	1.50437	3623730	5,223.44	22087845	12,422.14	20150677	9,145.87	73765618	15,448.10	25
26	HEAULCY, KENNETH HOFI	8.75	112.44	100.0000	26997	340.85	0	0.0000	26997	340.85	72958	0.0000	72958	0.0000	72958	0.0000	26
27	HURD, DEER	2.80	35.12	100.0000	10147	126.84	0	0.0000	10147	126.84	2391	0.0000	2391	0.0000	2391	0.0000	27
28	JUNSON, RUBY NADA CONRA	5.0	63.63	100.0000	2029	25.36	0	0.0000	2029	25.36	2029	25.36	2029	25.36	2029	25.36	28
29	KEMNITZ, A. A.	94.00	1,191.09	100.0000	119109	1,512.88	14450	2.20168	264447	3,357.44	1031755	1,324.64	1,324.64	1,324.64	1,324.64	1,324.64	29
30	LAFIN, GREGG P.	2.90	37.26	100.0000	9430	117.87	0	0.0000	9430	117.87	2391	0.0000	2391	0.0000	2391	0.0000	30
31	LOVE, H. RALPH	5.27	67.22	100.0000	8618	108.49	0	0.0000	8618	108.49	228	0.0000	228	0.0000	228	0.0000	31
32	MARATHON OIL COMPANY	163.20	2,065.99	100.0000	1495136	2,627.69	278343	4.23668	1723499	2,794.41	7599985	4,420.30	7,921.72	5,291.91	8,541.19	5,633.54	32
33	MCCARTHY, KATHLEEN	5.0	63.63	100.0000	2029	25.36	0	0.0000	2029	25.36	2029	25.36	2029	25.36	2029	25.36	33
34	MCPHERSON, R. P.	5.34	67.62	100.0000	14300	182.71	0	0.0000	14300	182.71	3640	0.0000	3640	0.0000	3640	0.0000	34
35	MCPHERSON, RALPH	2.03	25.83	100.0000	14300	182.71	389	0.5434	106410	1,374.4	7408	0.0000	7408	0.0000	7408	0.0000	35
36	MCPHERSON, RALPH	3.52	44.23	100.0000	52476	668.42	1930	0.2938	54466	698.37	3702	0.0000	3702	0.0000	3702	0.0000	36
37	MOL, OIL CORP.	156.00	2,005.72	100.0000	248402	3,132.27	70204	1.02430	2244228	2,923.92	1743518	1,022.55	1,346.32	1,346.32	1,346.32	1,346.32	37
38	MORANCO, W.	10.75	137.14	100.0000	27466	348.27	0	0.0000	27466	348.27	5045	0.0000	5045	0.0000	5045	0.0000	38
39	MORANCO, W.	21.37	272.36	100.0000	53348	680.84	0	0.0000	53348	680.84	14557	0.0000	14557	0.0000	14557	0.0000	39
40	MORRIS, S. D.	2.00	25.70	100.0000	2698	34.00	629	0.9572	33237	423.99	4861	0.0000	4861	0.0000	4861	0.0000	40
41	MURDER, MICHAEL L. COLLA	5.0	63.63	100.0000	2029	25.36	0	0.0000	2029	25.36	2029	25.36	2029	25.36	2029	25.36	41
42	MURDER, MICHAEL L. COLLA	24.32	312.51	100.0000	37249	472.83	6476	1.16452	404160	5,254.4	545508	7,178.5	9,254.4	11,784.5	15,340.3	20,000.0	42
43	MURDER, MICHAEL L. COLLA	1.98	25.44	100.0000	3194	40.81	0	0.0000	3194	40.81	105	0.0000	105	0.0000	105	0.0000	43
44	MURDER, MICHAEL L. COLLA	3.00	39.04	100.0000	40421	511.75	9434	0.14359	49855	6388	48186	60973	0.0000	60973	7731	0.0000	44
45	MURDER, MICHAEL L. COLLA	6.00	78.08	100.0000	80443	1,023.50	1867	0.2817	97710	1,261.30							

TABLE 23 A
PRIMARY OIL RESERVES AND ULTIMATE OIL RECOVERY

PRIMARY OIL RESERVES																								
TRACT NAME		GRAYBURG		S.A. ZONE I		S.A. ZONE II		S.A. ZONE III		S.A. TOTAL		UNIT TOTAL		ULTIMATE OIL REC.*		TR. NO.								
TR. NO.	OPERATOR - LEASE	BBLs	%	BBLs	%	BBLs	%	BBLs	%	BBLs	%	BBLs	%	BBLs	%	BBLs	%							
1	GETTY - STATE B	13132	0.88415	0	0.0000	0	0.0000	0	0.0000	0	0.0000	13132	0.88415	72440	0.88334	1								
2	AMERADA MESS-STATE MHB	13310	0.89113	0	0.0000	0	0.0000	0	0.0000	0	0.0000	13310	0.89113	194073	0.7028	2								
3	GULF - LEA-FO STATE	10042	0.67146	0	0.0000	0	0.0000	0	0.0000	0	0.0000	10042	0.67146	79940	0.3400	3								
4	TEXAS PACIFIC-STATE V AC1	38702	2.40571	0	0.0000	0	0.0000	0	0.0000	0	0.0000	38702	2.40571	235876	0.11502	4								
5	ESSEX ENGRA - STATE	12876	0.84684	0	0.0000	0	0.0000	0	0.0000	0	0.0000	12876	0.84684	88029	0.4253	5								
6	CONTINENTAL - STATE B 13	11753	0.75130	0	0.0000	0	0.0000	0	0.0000	0	0.0000	11753	0.75130	856717	0.1775	6								
7	SHELL - RICE	3271	0.22023	6350	0.40818	0	0.0000	0	0.0000	105438	0.28818	108705	0.28854	1812439	0.8327	7								
8	AMERADA MESS - B HARDIN	48776	3.13287	2435	0.15486	0	0.0000	0	0.0000	13312	0.89113	291209	0.89113	1819582	0.8725	8								
9	GULF - DAN HARDIN	13857	0.89296	0	0.0000	0	0.0000	0	0.0000	0	0.0000	13857	0.89296	1854114	0.7040	9								
10	MORANCO - STATE T 17	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	85746	0.0341	10								
11	CHEVRON - STATE I 12	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	29209	0.1490	11								
12	GETTY (SHELL) - STATE A	7968	0.53647	0	0.0000	0	0.0000	0	0.0000	0	0.0000	7968	0.53647	29209	0.1490	12								
13	ANTWEL-MORRIS-CON-TOWNS	30642	2.04305	0	0.0000	0	0.0000	0	0.0000	0	0.0000	30642	2.04305	73456	0.3400	13								
14	WISER - MORRIS B	0	0.0000	67500	0.43176	0	0.0000	0	0.0000	67500	0.43176	67500	0.43176	574521	0.2801	14								
15	WISER - MORRIS A	0	0.0000	152764	0.97184	0	0.0000	0	0.0000	152764	0.97184	152764	0.97184	724013	0.3400	15								
16	GULF - W.D.GRIMES NCT C	61284	4.12610	0	0.0000	0	0.0000	0	0.0000	0	0.0000	61284	4.12610	1538498	0.7501	16								
17	C-N-SHEET - MCKINLEY-B	8755	0.58445	0	0.0000	0	0.0000	0	0.0000	0	0.0000	8755	0.58445	105487	0.0514	17								
18	GETTY (SHELL) - MCKINLEY	0	0.0000	0	0.0000	0	0.0000	0	0.0000	50	0.0014	50	0.0014	606158	0.2957	18								
19	CHEVRON - M. D. MCKINLEY	0	0.0000	0	0.0000	0	0.0000	0	0.0000	148540	0.9437	148540	0.9437	1574740	0.7488	19								
20	C-N-SHEET - GRIMES	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	293234	0.1429	20								
21	BILL-SHEET-BOWERS-A-FED.	8258	0.58945	0	0.0000	0	0.0000	0	0.0000	0	0.0000	8258	0.58945	381734	0.1861	21								
22	BILL-SHEET-BOWERS-R FED.	19340	1.20344	0	0.0000	0	0.0000	0	0.0000	0	0.0000	19340	1.20344	449542	0.2192	22								
23	ATLANTIC-RICH-GRIMES	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	884934	0.4311	23								
24	SHELL - MCKINLEY B	4738	0.30866	21028	1.35354	0	0.0000	0	0.0000	630343	0.40818	630343	0.40818	734139	0.3400	24								
25	GETTY - BOONE HARDIN	46738	3.35845	0	0.0000	24311	0.15486	0	0.0000	65781	0.42781	65781	0.42781	333588	0.1628	25								
26	CITIES SERVICE - HARDIN	0	0.0000	50744	0.32784	0	0.0000	0	0.0000	250448	0.1628	250448	0.1628	3692964	1.8007	26								
27	SHELL - MCKINLEY A	0	0.0000	90524	0.58508	0	0.0000	0	0.0000	1800740	0.67647	1800740	0.67647	11151430	0.5432	27								
28	GULF-GRANHAM STATE NCT A	0	0.0000	173350	1.12357	0	0.0000	0	0.0000	384352	0.24712	384352	0.24712	3534761	0.1723	28								
29	SHELL - STATE D	0	0.0000	104862	0.67647	0	0.0000	0	0.0000	58342	0.38442	58342	0.38442	1313648	0.6404	29								
30	AMERADA MESS-STATE E	19629	1.32157	0	0.0000	0	0.0000	0	0.0000	0	0.0000	19629	1.32157	1150057	0.5078	30								
31	TEXAS PACIFIC-STATE G	0	0.0000	1141482	0.74408	0	0.0000	0	0.0000	1724400	0.74408	1724400	0.74408	541236	0.2511	31								
32	SANEDAN - STATE C	0	0.0000	1133353	0.733371	0	0.0000	0	0.0000	1133353	0.733371	1133353	0.733371	616383	0.2844	32								
33	C-N-SHEET - STATE F	83172	0.53977	0	0.0000	0	0.0000	0	0.0000	0	0.0000	83172	0.53977	724538	0.3543	33								
34	SHELL - STATE F	3768	0.25369	0	0.0000	0	0.0000	0	0.0000	0	0.0000	3768	0.25369	13218	0.0639	34								
35	TEXAS PACIFIC-STATE V AC2	27214	1.84582	0	0.0000	0	0.0000	0	0.0000	0	0.0000	27214	1.84582	327419	0.1592	35								
36	C-C OPER. - SHIPP A	2621	0.17447	0	0.0000	0	0.0000	0	0.0000	0	0.0000	2621	0.17447	21153	0.1039	36								
37	JOHN A. VATES-SHELL-STATE	40718	2.74145	0	0.0000	0	0.0000	0	0.0000	0	0.0000	40718	2.74145	13218	0.0639	37								
38	WISER - STATE L	9194	0.61915	0	0.0000	0	0.0000	0	0.0000	0	0.0000	9194	0.61915	21153	0.1039	38								
39	GETTY (SHELL) - MORRIS E	2032	1.36217	54617	0.35362	0	0.0000	0	0.0000	102348	0.30857	102348	0.30857	464073	0.2242	39								
40	CONTINENTAL - STATE B 25	2321	1.56341	0	0.0000	0	0.0000	0	0.0000	0	0.0000	2321	1.56341	1100544	0.5264	40								
41	SANEDAN - STATE B	0	0.0000	86438	0.55354	0	0.0000	0	0.0000	124405	0.8144	124405	0.8144	544673	0.2644	41								
42	TEXACO - M. D. B C ST	180658	12.70148	0	0.0000	0	0.0000	0	0.0000	1176835	0.39857	1176835	0.39857	30305	0.015	42								
43	AMERADA - M. D. MCKINLEY	0	0.0000	94937	0.61915	0	0.0000	0	0.0000	309110	0.2011	309110	0.2011	174809	0.087	43								
44	GETTY - M. D. MCKINLEY	36725	2.41116	0	0.0000	0	0.0000	0	0.0000	1298478	0.8414	1298478	0.8414	318074	0.159	44								
45	MARATHON-STATE SEC. 30	3111	0.22242	218444	0.14015	0	0.0000	0	0.0000	1830024	0.14843	1830024	0.14843	4811728	0.2344	45								
46	EXXON-BOWERS-A-FED-COM	0	0.0000	708554	0.457767	0	0.0000	0	0.0000	1240799	0.8414	1240799	0.8414	324453	0.162	46								
47	EXXON-BOWERS-A-FED-COM	0	0.0000	83151	0.53977	0	0.0000	0	0.0000	325943	0.2594	325943	0.2594	507900	0.2453	47								
48	AMERADA - STATE B	159358	10.72919	0	0.0000	0	0.0000	0	0.0000	50406	0.3339	50406	0.3339	1162343	0.5677	48								
49	EXXON - M. D. GRIMES	0	0.0000	0	0.0000	0	0.0000	0	0.0000	36542	0.2385	36542	0.2385	1198726	0.0958	49								
50	CONTINENTAL-STATE I 29	0	0.0000	0	0.0000	0	0.0000	0	0.0000	800184	0.10178	800184	0.10178	458386	0.2251	50								
51	GETTY - M. D. GRIMES	0	0.0000	114210	0.73354	0	0.0000	0	0.0000	330441	0.83372	330441	0.83372	303248	0.1490	51								
52	CHEVRON - STATE I 29	0	0.0000	1076793	0.69653	0	0.0000	0	0.0000	1125469	0.7425	1125469	0.7425											

TABLE 23 B

PRIMARY OIL RESERVES AND ULTIMATE OIL RECOVERY

WIO NO.	WORKING INTEREST OWNER	PRIMARY OIL RESERVES										ULTIMATE OIL RECOVERY *	
		GRAYBURG		S. A. ZONE I		S. A. ZONE II		S. A. ZONE III		S. A. TOTAL		UNIT TOTAL	
		BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%
1	AMERADA-HESS CORP.	224044	16.21400	1322189	5.25172	443311	6.94434	844114	7.33341	3238415	6.11877	2476657	4.50343
2	ARCO PRODUCTION CO.	0	.00000	177419	.03474	0	.00000	907985	6.58491	685404	1.87338	685404	1.80030
3	ANDERSON-404-A	1509	.01040	0	.00000	0	.00000	0	.00000	0	.00000	1509	.00334
4	ANDERSON EST. WARREN D	1509	.01040	0	.00000	0	.00000	0	.00000	0	.00000	1509	.00334
5	ANDERSON, S. D. AND SAMS	3018	.02080	0	.00000	0	.00000	0	.00000	0	.00000	3018	.00668
6	ARMSTRONG, J. M.	3018	.02080	0	.00000	0	.00000	0	.00000	0	.00000	3018	.00668
7	ATLANTIC RICHFIELD CO.	23680	2.28404	651640	3.48338	1444328	1.41484	841728	.72531	855718	.233890	8452399	2.40883
8	BYRON W K	2421	.01742	0	.00000	0	.00000	0	.00000	0	.00000	2421	.00531
9	CSC OPERATING CO.	0	.00000	1076793	5.06753	168860	2.20777	48496	.63230	1294049	3.33497	1294049	3.33497
10	CHEVRON OIL COMPANY	0	.00000	583423	2.28550	371879	4.80416	241172	.33404	121224	.33343	121224	.33244
11	CITIES SERVICE OIL CO.	0	.00000	9548	.04493	0	.00000	0	.00000	9548	.02610	9548	.02508
12	CONRAD MARY DANIEL	31985	2.15342	157208	7.42236	185434	2.42228	344423	.3548128	811436	1.207871	4850121	11.68358
13	CONTINENTAL OIL CO.	0	.00000	14322	.06740	0	.00000	0	.00000	14322	.03915	14322	.03762
14	CRILE, HERMAN R.	0	.00000	448285	.210949	0	.00000	0	.00000	448285	.210949	448285	.210949
15	CUSACK, JR., J. P.	0	.00000	448285	.210949	23160	.30335	0	.00000	471445	1.28858	471445	1.23831
16	CUSACK, JR., J. P.	0	.00000	448285	.210949	23160	.30335	0	.00000	471445	1.28858	471445	1.23831
17	CUSACK, MICHAEL E.	0	.00000	448285	.210949	23160	.30335	0	.00000	471445	1.28858	471445	1.23831
18	DEL-LEA, INC. (ANTHETI)	38277	2.57710	0	.00000	0	.00000	0	.00000	38277	.00000	38277	.00054
19	DUNLAVY, J. M.	449	.04370	0	.00000	0	.00000	0	.00000	449	.00000	449	.00104
20	ESTES, RUSSELL G	805	.05470	0	.00000	0	.00000	0	.00000	805	.00000	805	.00211
21	EXXON COMPANY - U.S.A.	188455	12.20149	908854	4.27267	214148	2.83106	348044	4.73111	1494146	4.08389	1482803	4.42009
22	FIRST ROSWELL COMPANY	1299	.08744	0	.00000	0	.00000	0	.00000	1299	.00000	1299	.00341
23	FURBER, C. C.	0	.00000	21534	.10134	0	.00000	0	.00000	21534	.05884	21534	.05884
24	FORBES, L. ANNE	20947	.09847	20947	.09847	0	.00000	0	.00000	20947	.05731	20947	.05507
25	GULF OIL COMPANY	108313	7.22246	154544	7.27172	150454	19.22233	148223	.20103	3220037	8.80121	3320340	8.74235
26	GULF ENERGY & MINERALS	13720	9.40701	120710	5.45511	93321	10.91840	142108	18.45342	3966739	9.44815	3594459	9.44455
27	HEADLEY-KENNETH MOFL	0	.00000	7548	.04493	0	.00000	0	.00000	7548	.02021	7548	.02021
28	MURDO, PETER	0	.00000	1310	.00878	0	.00000	0	.00000	1310	.00352	1310	.00352
29	JUDSON-RUBY WANDA CONRA	0	.00000	325639	1.53344	0	.00000	0	.00000	325639	.87040	325639	.85886
30	KENNITZ, A. A.	649	.04370	0	.00000	0	.00000	0	.00000	649	.00000	649	.00170
31	LAFLIN, GEORGE P.	10179	.68533	0	.00000	0	.00000	0	.00000	10179	.02674	10179	.02674
32	LOVE, M. RALPH	3311	.22232	355421	1.47501	482415	6.44455	807437	.454822	1355278	3.70568	1357086	3.64981
33	MARATHON OIL COMPANY	0	.00000	1910	.00889	0	.00000	0	.00000	1910	.00522	1910	.00502
34	MCCARTHY, KATHRYN L. C.	2880	.01930	0	.00000	0	.00000	0	.00000	2880	.00787	2880	.00787
35	MCCARTHY, K. D.	0	.00000	1910	.00889	0	.00000	0	.00000	1910	.00522	1910	.00502
36	MCPHERON, MARGARAT M.	7310	.49217	0	.00000	0	.00000	0	.00000	7310	.02000	7310	.02000
37	MCPHERON, ROBERT L.	3456	.23408	0	.00000	0	.00000	0	.00000	3456	.00940	3456	.00940
38	MOBIL OIL CORP.	315251	21.22509	0	.00000	0	.00000	0	.00000	315251	.82805	315251	.82805
39	MORAN, R. M.	10843	.73043	0	.00000	0	.00000	0	.00000	10843	.02848	10843	.02848
40	MORAN, R. M.	11532	.77642	0	.00000	0	.00000	0	.00000	11532	.03221	11532	.03221
41	MURDOCH, NATHAN I. CONRA	0	.00000	14447	.06443	0	.00000	0	.00000	14447	.04042	14447	.04042
42	MURDOCH, NATHAN I. CONRA	0	.00000	1910	.00889	0	.00000	0	.00000	1910	.00522	1910	.00502
43	MURDOCH, NATHAN I. CONRA	0	.00000	172260	.81073	0	.00000	0	.00000	172260	.47485	172260	.47485
44	PARRISH, M.C. ESTATE	3819	.25712	21250	.10001	0	.00000	0	.00000	3819	.01003	3819	.01003
45	PARRISH-NATIONAL BANK	0	.00000	21250	.10001	0	.00000	0	.00000	21250	.05843	21250	.05843
46	RODINE-JOHN	0	.00000	42601	.20003	0	.00000	0	.00000	42601	.11413	42601	.11413
47	ROSE, FRANCIS I. CONRAD	0	.00000	1910	.00889	0	.00000	0	.00000	1910	.00522	1910	.00502
48	SAHELAN OIL CORP.	23221	1.56341	228878	10.77224	44229	.58847	0	.00000	333302	.83312	3357128	8.19122
49	SEA PROPERTIES, LTD.	0	.00000	35397	.16658	1389	.01819	0	.00000	3786	.01055	3786	.01055
50	SHELL OIL COMPANY	32737	2.20410	5430150	24.49265	2318530	30.38674	184562	.1348490	8613242	24.44378	4048942	23.74832
51	SPALDING SWITH, EST. OF	0	.00000	14167	.06687	0	.00000	0	.00000	14167	.03872	14167	.03872
52	SPALDING SWITH, EST. OF	325	.02148	0	.00000	0	.00000	0	.00000	325	.00088	325	.00088
53	SULLIVAN, E. C.	0	.00000	21250	.10001	0	.00000	0	.00000	21250	.05808	21250	.05808
54	SUN OIL CO. (DELANE)	38107	2.56545	2104	.00890	0	.00000	0	.00000	38107	.10041	38107	.10041
55	SWEET, BILL L.	9755	.59945	0	.00000	0	.00000	0	.00000	9755	.02300	9755	.02300
56	SWEET, C. M. OIL CO.	81927	6.18822	0	.00000	0	.00000	0	.00000	81927	.24144	81927	.24144
57	TATE, M.E. EST. OF	0	.00000	42501	.20002	0	.00000	0	.00000	42501	.11417	42501	.11417
58	TEXACO, INC.	64416	4.47163	116192	5.46708	23404	.308421	18341	.23374	1174835	3.21452	1174835	3.21452
59	TEXAS PACIFIC OIL CO. IN	0	.00000	0	.00000	0	.00000	0	.00000	0	.00000	0	.00000
60	TEXAS PACIFIC OIL CO. IN	0	.00000	0	.00000	0	.00000	0	.00000	0	.00000	0	.00000
61	TREADAWAY, BETTY CONRA	0	.00000	1910	.00889	0	.00000	0	.00000	1910	.00522	1910	.00502
62	TWO STATES OIL CO.	0	.00000	25312	.11912	0	.00000	0	.00000	25312	.06918	25312	.06918
63	WALLACE-COLLEEN MCPHERO	3455	.23408	0	.00000	0	.00000	0	.00000	3455	.00940	3455	.00940
64	WHITLEY, LOYD	649	.04370	0	.00000	0	.00000	0	.00000	649	.00170	649	.00170
65	WILLIAMS, MATTIE C.	0	.00000	55223	.25888	0	.00000	0	.00000	55223	.15084	55223	.15084
66	WILLIAMSON, A. T.	649	.04370	0	.00000	0	.00000	0	.00000	649	.00170	649	.00170
67	WISER OIL COMPANY, THE	40718	2.74145	110133	.51830	0	.00000	0	.00000	110133	.30102	110133	.30102
68	YATES, JOHN A	3018	.20320	0	.00000	0	.00000	0	.00000	3018	.00828	3018	.00828
69	YEAGER & ARMSTRONG	0	.00000	6214	.02944	0	.00000	0	.00000	6214	.01698	6214	.01698
70	YEAGER JR. DR. HENRY	0	.00000	5432	.02146	0	.00000	0	.00000	5432	.01443	5432	.01443
71	YEAGER RUTH ANNE	0	.00000	1591	.00749	0	.00000	0	.00000	1591	.00435	1591	.00435
72	YEAGER RUTH HENRY	0	.00000	4448	.02138	0	.00000	0	.00000	4448	.01231	4448	.01231
73	YEAGER RUTH BEELER	0	.00000	0	.00000	0	.00000	0	.00000	0	.00000	0	.00000
		1468275	100.00000	2124859	100.00000	7434869	100.00000	7702860	100.00000	36584908	100.00000	38071683	100.00000
												265060706	100.00000

* INCLUDES AN ADJUSTMENT OF AN ADDITIONAL 1029 BARRELS OF OIL FOR "LOST" PRODUCTION FROM THREE WELLS (294, 30C & 30K) WHICH WERE SHUT IN FOR SPECIAL BHP BUILD-UP SURVEYS REQUESTED BY THE TECHNICAL COMMITTEE

TABLE 24 A
UNITIZATION PARAMETERS - SECONDARY OIL RESERVES

TR NO.	TRACT NAME	GRAYBURG			ZONE II			ZONE III _U			TOTALS			UNIT TOTALS			TR NO.
		BBLs.	%		BBLs.	%		BBLs.	%		BBLs.	%		BBLs.	%		
1	GETTY - STATE B	77157	1.17617		0	.00000		0	.00000		0	.00000		77157	.13978		1
2	AMERADA-MESS-STATE WMB	113814	1.73600		426	.00236		0	.00000		426	.00236		114241	.20494		2
3	GULF - LEA FO STATE	46155	.70358		0	.00000		0	.00000		0	.00000		46155	.08361		3
4	TEXAS PACIFIC-STATE V ACT	157802	2.30552		3173	.01723		0	.00000		3173	.01723		160975	.29162		4
5	ESTES ENGR. - STATE	74776	1.13991		33987	.18881		358	.00197		34345	.07061		109123	.19769		5
6	CONTINENTAL - STATE R 13	727210	1.15717		247635	.137619		224015	.04000		471650	.08760		744240	.135192		6
7	SHELL - RICE	25633	.39075		368321	2.15734		694795	3.47539		1285116	2.464210		1310749	2.37455		7
8	AMERADA MESS - B HARDIN	26588	.40630		371758	2.06532		749466	3.15355		1151224	2.134627		1167812	2.11560		8
9	GULF - DAN HARDIN	174050	2.63119		280716	1.58953		259717	1.04441		540433	1.11109		714483	1.29435		9
10	MORANCO - STATE T 17	22344	.33061		129	.00038		0	.00000		129	.00038		22523	.04080		10
11	CHEVRON - STATE I 17	42803	.63053		5346	.02981		0	.00000		5346	.02981		40149	.07277		11
12	GETTYSKELLIE-STATE	42854	.63224		14404	.08114		0	.00000		14404	.08114		59240	.10735		12
13	ANTHEIL-MORRIS CONE TOWNS	19480	.29495		0	.00000		0	.00000		0	.00000		19480	.03629		13
14	WISER - MORRIS B	10039	.15303		0	.00000		0	.00000		0	.00000		10039	.01819		14
15	WISER - MORRIS A	17299	.26370		0	.00000		0	.00000		0	.00000		17299	.03134		15
16	GULF - M.D. GRIMES MCT C	84867	1.27370		8481	.04384		0	.00000		8481	.04384		93348	.17130		16
17	C H SWEET - MCKINLEY B	63480	.95769		8539	.04744		0	.00000		8539	.04744		72019	.13077		17
18	GETTYSKELLIE - MCKINLEY	51235	.77103		57051	.31695		0	.00000		57051	.31695		108284	.19817		18
19	CHEVRON - M D MCKINLEY	56831	.86333		15928	.08849		0	.00000		15928	.08849		216759	.39768		19
20	C H SWEET - GRIMES	23948	.36506		0	.00000		0	.00000		0	.00000		23948	.04320		20
21	BILL SWEET-BONERS A FED.	28017	.42709		19282	.10712		0	.00000		19282	.10712		47249	.08568		21
22	BILL SWEET-BONERS B FED.	32223	.49121		14559	.08333		0	.00000		14559	.08333		50822	.09207		22
23	ATLANTIC RICH-GRIMES	35245	.53728		36706	.20392		0	.00000		36706	.20392		71951	.13035		23
24	SHELL - MCKINLEY B	147814	2.23330		358645	1.99259		4929	.02840		365594	.75163		513410	.93009		24
25	GETTY - BOONE HARDIN	138202	2.10426		353629	1.94461		246414	1.08448		610243	1.27106		756545	1.37055		25
26	CITIES SERVICE - STATE G	84593	1.29952		55165	.308425		1049231	4.30013		1404396	2.93851		1620620	2.93591		26
27	SHELL - MCKINLEY A	156718	2.38899		1003267	5.57371		871821	3.57304		1975088	3.85503		2031806	3.68081		27
28	CULLE-GRAN-STATE ACT A	15038	.22143		61941	.34317		1014384	4.15272		1333895	3.15521		1449233	2.68865		28
29	SHELL - STATE D	34614	.55814		309733	1.64930		279933	1.14727		580706	1.19327		617020	1.11779		29
30	AMERADA MESS-STATE E	90584	1.38065		208708	1.15848		0	.00000		299416	.62554		394858	.71532		30
31	TEXAS PACIFIC-STATE G	84593	1.29952		477403	3.76446		443654	1.81624		1121257	2.30522		1205850	2.18451		31
32	SAMEDAN - STATE C	82315	1.23883		385694	2.14220		95841	.40795		485137	.99740		768452	1.39212		32
33	C H SWEET - STATE F	227830	3.43502		112149	.62308		2339	.00958		114988	.23538		342318	.62014		33
34	SHELL - STATE F	124504	1.82432		8562	.04633		0	.00000		8562	.04633		131923	.23908		34
35	TEXAS PACIFIC-STATE V AC2	189441	2.89742		0	.00000		0	.00000		0	.00000		189441	.34319		35
36	C.C. OPERA - SHIPP A	17373	.26483		0	.00000		0	.00000		0	.00000		17373	.03147		36
37	JOHN A YATES-SHELL STATE	213610	3.25624		627	.00348		0	.00000		627	.00348		214237	.38811		37
38	WISER - STATE L	47079	.71747		0	.00000		0	.00000		0	.00000		47079	.08529		38
39	GETTYSKELLIE - MORRIS E	95058	1.44906		0	.00000		0	.00000		0	.00000		95058	.17221		39
40	CONTINENTAL - STATE B 25	154378	2.33486		88384	.43947		205	.00000		88589	.18193		242368	.44018		40
41	SAMEDAN - STATE B	129094	1.94790		19364	.10202		0	.00000		19364	.10202		147458	.26713		41
42	TEXACO - M.D. GRIMES DO B C ST	131336	2.00204		14298	.31977		9528	.39151		511824	1.05222		643141	1.16615		42
43	AMERADA - M.D. STATE A	399978	6.07722		129250	.71528		13977	.05736		142747	.29348		542725	.98320		43
44	AMERADA - M D MCKINLEY	34914	.53225		338214	2.99009		157544	1.87569		995860	2.04741		1030774	1.86235		44
45	GETTY - M D MCKINLEY	55749	.85013		675365	3.75203		63322	.31485		1508792	3.10196		184561	2.83435		45
46	MARATHON-STATE SEC. 30	183442	2.78941		529532	2.91055		384949	1.57766		914981	1.88010		1098123	1.98935		46
47	EXXON-BONERS A FEDERAL	31748	.48396		1286942	7.19468		184838	.75756		3340734	6.84829		3372482	6.10957		47
48	EXXON-BONERS A FED COM	47247	.70223		128135	.71186		60021	.24599		188156	.38683		235403	.42145		48
49	AMERADA - STATE B	121340	1.84949		360344	2.00191		296393	1.21473		486737	.935020		778077	1.40956		49
50	EXXON - M D GRIMES	40405	.61897		82252	.45696		9209	.03774		91461	.18804		120666	.22325		50
51	CONTINENTAL-STATE A 28	2374	.03622		461041	2.56145		868270	3.45304		1870162	3.22813		1572338	2.83480		51
52	GETTY - M D GRIMES	28642	.43642		197756	1.10976		39070	1.63553		653612	1.34377		682254	1.23357		52
53	CHEVRON - STATE J 29	116890	1.78187		313342	1.74079		725050	3.97151		1384281	2.84597		1384281	2.60778		53
54	ATLANTIC - M D GRIMES SOC	46250	.70503		298750	1.65972		187197	.84530		485947	.99907		602837	1.09210		54
55	SAMEDAN - MOON B	31525	.48057		55014	.30543		34530	.14974		91544	.18821		137794	.24963		55
56	SAMEDAN - MOON B	13252	.20921		402505	2.24614		993289	4.02046		1885027	3.56515		58983	.10855		56
57	SHELL - GRIMES	49411	.75321		350832	1.99906		34774	.14252		110023	.22620		930424	1.68555		57
58	CONTINENTAL - M D GRIMES	73472	1.12001		76247	.41804		0	.00000		0	.00000		181495	.33242		58
59	SHELL - SANGER	3431	.05134		24554	.13763		2551	.01036		29107	.05984		3631	.00658		59
60	MORANCO - MORRIS	23362	.35413		17425	.09792		22000	.09016		39625	.08147		60936	.11039		60
61	SHELL - TURNER	22234	.33988		49259	.27444		55512	.40283		149321	.30220		171217	.31108		61
62	SAMEDAN - TURNER B BAT 2	7447	.11488		425	.00236		0	.00000		425	.00236		8092	.01466		62
63	SAMEDAN - TURNER A	5847	.08828		224	.00124		0	.00000		224	.00124		9171	.01661		63
64	GULF - M.D. GRIMES MCT B	57062	.86947		112266	.62370		40009	.18377		152275	.31307		203137	.37923		64
65	SHELL - STATE B	0	.00000		431505	2.37670		84312	.38701		157741	.328991		1881021	3.40745		65
66	AMCO - STATE G	0	.00000		281949	1.56380		617070	2.87717		1371955	2.81960		1371955	2.49452		66
67	CONTINENTAL - STATE A 33	0	.00000		271377	1.50245		830744	2.53810		1374538	2.82414		1374538	2.49201		67
68	AMERADA MESS - STATE A	0	.00000		83474	.44486		2007042	8.63496		1564179	25.06697		4405495	7.98077		68
69	SHELL - STATE A	0	.00000		260744	1.44853		604952	3.27224		343254	4.21881		1128454	2.04430		69
70	GULF-M D GRIMES MCT A 22	5393	.08222		529885	2.93380		757209	3.10332		368558	.90638		1415049	2.65439		70
71	GULF-M D GRIMES MCT A 22	15219	.23200		551147	3.06193		1191362	4.82317		2800735	6.48838		1919007	3.47446		71
72	MARATHON-STATE SEC 32 18	0	.00000		423012	2.35007		982434	4.05588		314317	5.06918		2058826	3.75733		72
73	CITIES SERVICE - FOWLER	112110	1.70899		469554	2.60808		805448	3.30102		1281659	2.63499		1393749	2.52494		73
74	GETTYSKELLIE - FOWLER	139472	2.12416		175694	.97408		74437	.31337		252133	.51837		391610	.70944		74
75	SUN - CLARA FOWLER	174625	2.67245		62579	.33766		526	.00216		43105	.08194		239730	.43429		75
76	SHELL - BERRY	168481	2.58631		452668	3.51482		342421	1.82359		914027	1.88328		1084508	1.96469		76
77	MOBIL - MORA BERRY	294805	4.43397		76793	.42385		197	.00081		76793	.1					

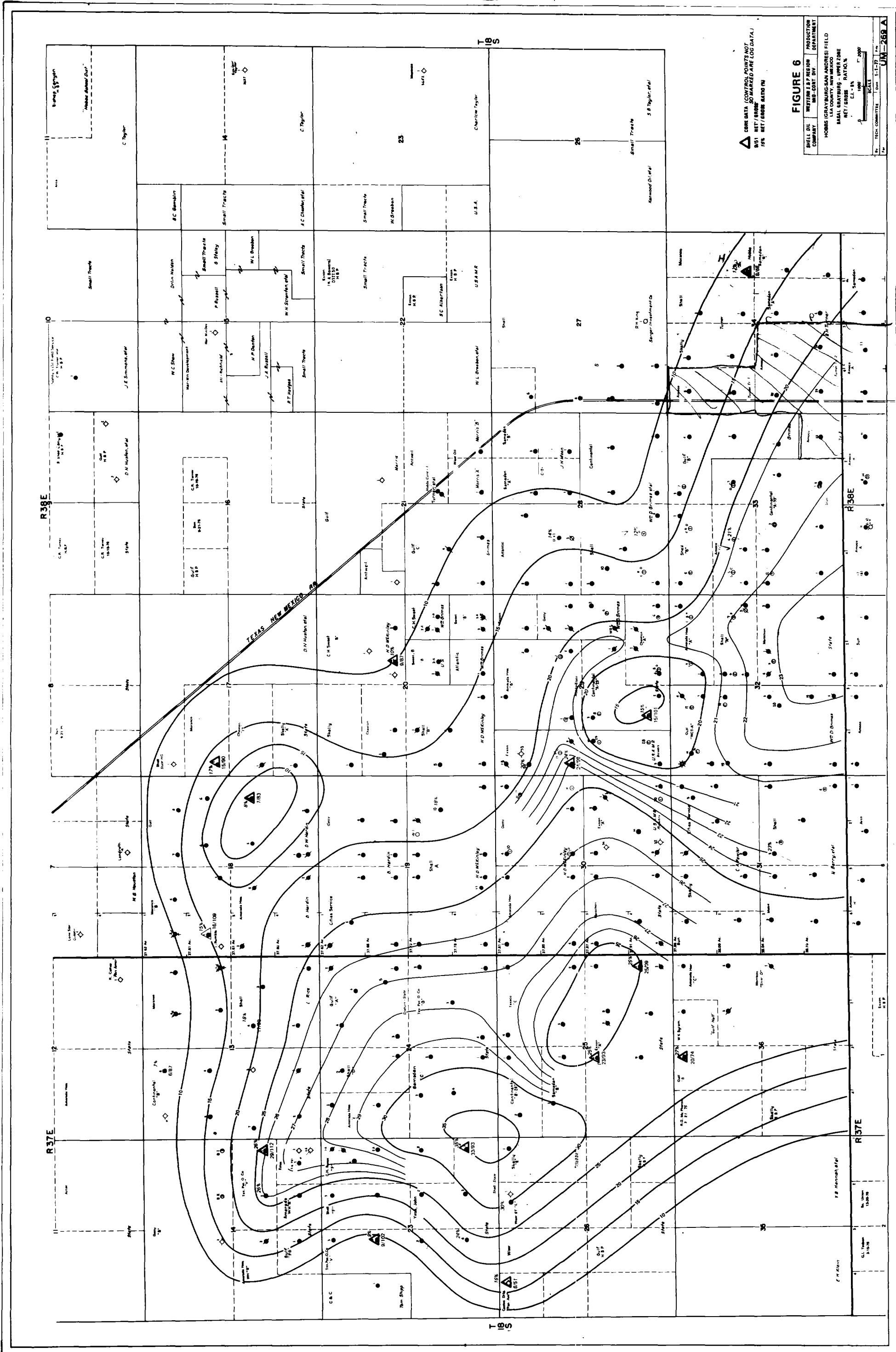
TABLE 24 B
UNITIZATION PARAMETERS - SECONDARY OIL RESERVES

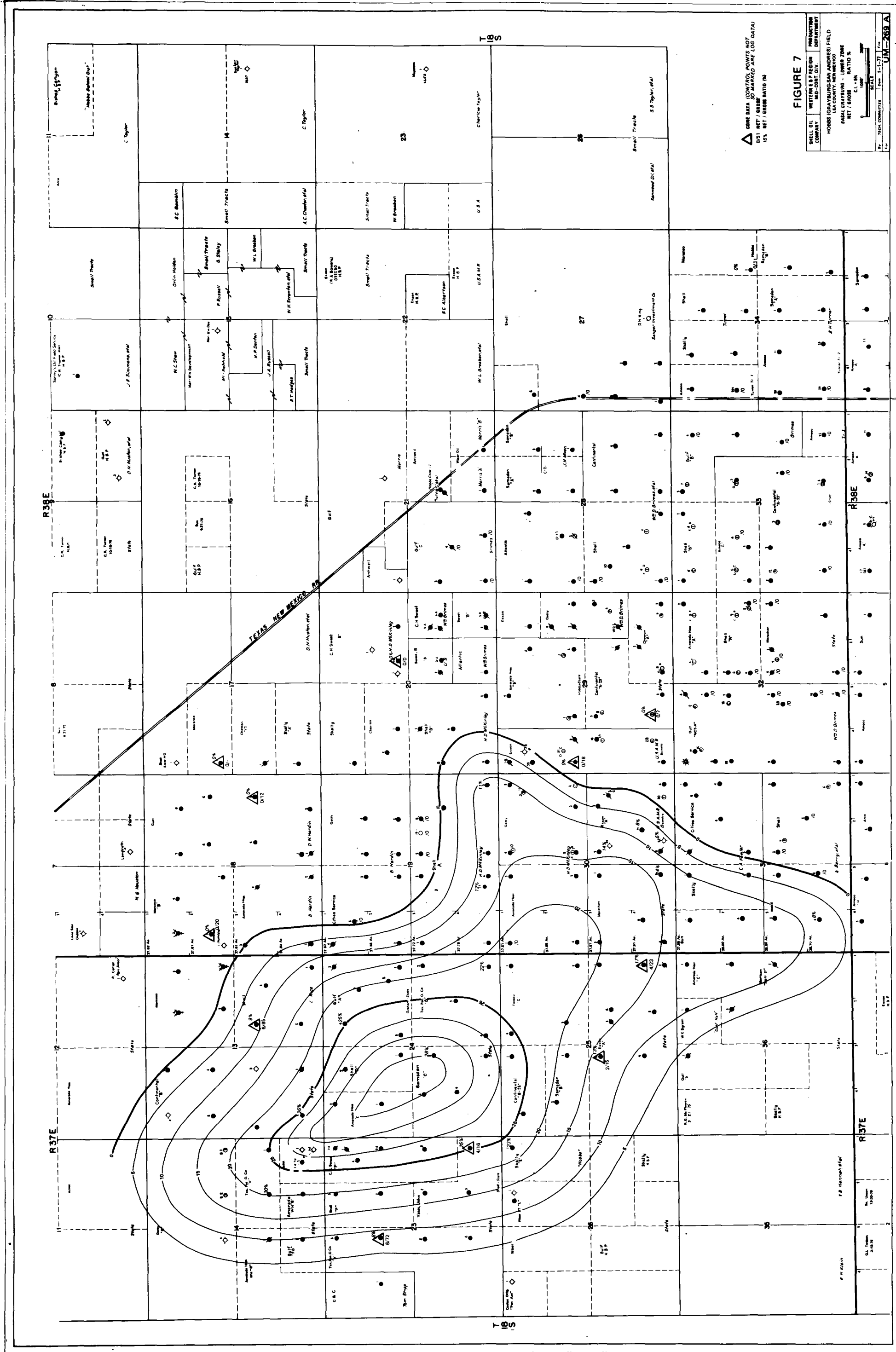
WIO NO.	WORKING INTEREST OWNER	GRAYBURG UPPER & LOWER				SAN ANDRES				UNIT TOTALS			
		ZONE II		ZONE III _U		ZONE III _L		TOTALS		TOTALS		TOTALS	
		BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%	BBLs.	%
1	AMERADA HESS COMP.	66964	10.19277	1640891	9.11606	2175737	8.91695	263256	9.21885	4079894	8.38772	4748530	8.40241
2	AMOCO PRODUCTION CO.	0	.00000	271332	1.48345	430744	3.45010	473358	3.45010	1318532	3.45010	1318532	3.45010
3	ANDERSON A & A	8763	.13358	3983	.02213	42	.00017	0	.00000	4025	.00028	12788	.02317
4	ANDERSON EST. & ASSOC.	8343	.13358	3983	.02213	42	.00017	0	.00000	4025	.00028	12788	.02317
5	ANDERSON, W. D. AND SO'S	17526	.26717	7966	.04425	84	.00034	0	.00000	8050	.01655	25576	.04633
6	ARMSTRONG, J. M.	17526	.26717	7966	.04425	84	.00034	0	.00000	8050	.01655	25576	.04633
7	ATLANTIC RICHFIELD CO.	152136	2.31914	335456	1.86344	187197	.76720	0	.00000	522653	1.07453	674769	1.22244
8	AYROW, K.	38487	.58812	0	.00000	0	.00000	0	.00000	0	.00000	38487	.07001
9	CAC OPERATING CO.	17373	.26493	0	.00000	0	.00000	0	.00000	17373	.03600	17373	.03147
10	CHEVRON OIL COMPANY	81638	1.23848	428434	2.45828	725050	3.52151	345488	1.58310	1543538	3.10860	1641268	3.02331
11	CITIES SERVICE OIL CO.	142052	2.16542	1052198	5.81558	1854482	7.22083	6757	.00000	2918437	6.00018	3060489	5.54436
12	COMBUSTION ENGINEERING	1081	.01648	0	.00000	0	.00000	0	.00000	0	.00000	1081	.00194
13	CONTINENTAL OIL CO.	478976	7.30146	1981986	11.01104	3618896	14.31154	1817826	29.13183	7418708	15.25228	7897604	14.30740
14	CRILEY, WERMAN & S.	1622	.02422	0	.00000	0	.00000	0	.00000	0	.00000	1622	.00284
15	CUSACK, J. P.	6230	.09478	243	.00135	0	.00000	0	.00000	243	.00000	6473	.01173
16	CUSACK, J. P.	19444	.29640	20223	.11235	9527	.03905	0	.00000	29750	.06117	38134	.06912
17	CUSACK, MICHAEL F.	30160	.45732	0	.00000	0	.00000	0	.00000	0	.00000	30160	.05452
18	DELELLA, JAMES & SONS	1047	.01597	0	.00000	0	.00000	0	.00000	0	.00000	1047	.00191
19	DUNLAVEY, JOHN	4674	.07124	2124	.01180	23	.00000	0	.00000	2147	.00000	1058	.00191
20	ESTES, RUSSELL G.	509426	7.74554	1405517	8.91954	1923363	7.70722	205354	3.49093	3740234	7.89982	4249660	7.89866
21	ERRON COMPANY - U.S.A.	2036	.03133	17	.00000	0	.00000	0	.00000	17	.00000	2036	.00353
22	FIRST ROSWELL COMPANY	5383	.08206	7326	.04070	1891	.00775	0	.00000	9217	.01895	14400	.02645
23	FORBES C. C.	5241	.07920	7134	.03943	1842	.00755	0	.00000	8876	.01845	14217	.02676
24	FORBES, ILANAF	725031	11.05230	1647726	9.16515	1742637	7.14195	55101	.08303	3447464	7.06771	4172495	7.55887
25	GETTY OIL COMPANY	375459	5.72336	2423255	13.45432	4513534	18.48110	1098129	17.55822	8033820	16.64710	8303359	15.23438
26	GULF ENERGY & MINERALS	2877	.04365	0	.00000	0	.00000	0	.00000	0	.00000	2877	.00521
27	HEADLEY, KENNETH NOEL	1081	.01648	0	.00000	0	.00000	0	.00000	0	.00000	1081	.00194
28	HARDY, PETER	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039
29	JUDSON, RUBY WANDA CO. & S.	81553	1.24166	110452	.61588	28418	.11232	0	.00000	133327	.28475	220930	.40024
30	KENNEL, A. A.	1047	.01597	0	.00000	0	.00000	0	.00000	0	.00000	1047	.00191
31	LAFLEY, GEORGE P.	183642	2.79841	952544	5.29191	1374583	5.43354	851194	13.44093	3178321	6.53434	3361963	6.09051
32	LORE, J. A.	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039
33	MARATHON OIL COMPANY	1741	.02634	13	.00007	0	.00000	0	.00000	13	.00000	1754	.00318
34	MCCARTHY, JAMES L. & S.	11594	.17425	0	.00000	0	.00000	0	.00000	0	.00000	11594	.02100
35	MCPETERS, K. D.	5797	.08837	74283	.42388	188	.00000	0	.00000	74921	.15728	371256	.67264
36	MCPHERON, ROBERT L.	284805	4.33382	17	.00007	0	.00000	0	.00000	17	.00000	2943	.00537
37	MORIL OIL CORP.	2946	.04491	50	.00028	0	.00000	0	.00000	50	.00000	2943	.00537
38	MORAN, E. A.	4365	.06617	4820	.02628	1244	.00510	0	.00000	6049	.01247	9408	.01740
39	MORRIS, G. D.	3541	.05399	0	.00000	0	.00000	0	.00000	0	.00000	3541	.00639
40	MURDOCH, NATHAN J. & S.	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039
41	MOBLE, RICHARD L.	43064	.65646	58611	.32561	15130	.06201	0	.00000	73741	.15169	116005	.21160
42	PARRISH, M. C. ESTATE	341	.00519	0	.00000	0	.00000	0	.00000	0	.00000	341	.00062
43	PARTIALS NATIONAL BANK	5312	.08098	7230	.04017	1866	.00765	0	.00000	9066	.01870	14408	.02610
44	PORTER, JOHN	10624	.16195	14460	.08033	3733	.01530	0	.00000	18193	.03746	28817	.05220
45	ROSE, FRANCIS L. & S.	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039
46	SANEDAN OIL CORP.	334445	5.09824	302430	1.68017	91274	.37407	0	.00000	393704	.80942	728149	1.31911
47	SEA PROPERTIES, LTD.	3332	.05017	4105	.02241	1318	.00540	0	.00000	5423	.01116	8215	.01679
48	SHELL OIL COMPANY	780724	11.90132	3589700	19.94111	4724994	20.19440	1124094	18.01435	9638490	19.81597	10419216	18.87539
49	SHEDDEN, SMITH, ESTATE	3541	.05399	4820	.02628	1244	.00510	0	.00000	6049	.01247	9408	.01740
50	SPEAR, HOWELL	524	.00798	0	.00000	0	.00000	0	.00000	0	.00000	524	.00096
51	SULLIVAN, E. C.	5312	.08098	7230	.40002	1866	.00765	0	.00000	9066	.01870	14408	.02610
52	SUN OIL CO. (DELAWARE)	176625	2.67245	62579	.34764	526	.00216	0	.00000	63105	.12974	239730	.43429
53	SWEET, BILL & SONS	40340	.61820	32841	.17046	0	.00000	0	.00000	32841	.06784	58131	.10776
54	SWEET, C. M. OIL CO.	315358	4.80576	120487	.67048	2339	.00959	0	.00000	123026	.25293	438754	.79399
55	TALLER, WALTER ESTATE	10624	.16195	14460	.08033	3733	.01530	0	.00000	18193	.03746	28817	.05220
56	TERACO, INC.	131335	2.00206	416298	2.31272	95528	.39151	0	.00000	511826	1.05227	643161	1.18515
57	TEXAS PACIFIC OIL CO. & S.	431836	6.58288	860778	4.72608	843458	4.8424	0	.00000	1134430	2.31134	1556264	2.81832
58	TEXAS PACIFIC OIL CO. & S.	216	.00330	0	.00000	0	.00000	0	.00000	0	.00000	216	.00039
59	TMC STATES OIL CO.	3765	.05739	0	.00000	0	.00000	0	.00000	0	.00000	3765	.00682
60	WALLACE, COLLEEN MCPHRO	5797	.08837	0	.00000	0	.00000	0	.00000	0	.00000	5797	.01050
61	WILLIAMS, MATTIE C.	3343	.05096	4578	.02654	2344	.00961	0	.00000	8922	.01834	12255	.02222
62	WILLIAMS, A. I.	1047	.01597	0	.00000	0	.00000	0	.00000	0	.00000	1047	.00191
63	WISER OIL COMPANY, THE	60748	.92603	0	.00000	0	.00000	0	.00000	0	.00000	60748	.11005
64	YATES, JOHN A.	213610	3.23624	427	.00000	0	.00000	0	.00000	427	.00000	213610	.38111
65	YEAGER & ARMSTRONG	17526	.26717	7966	.04425	84	.00034	0	.00000	8050	.01655	25576	.04633
66	YEAGER, RUTH ANNE	704	.01073	0	.00000	0	.00000	0	.00000	0	.00000	704	.00128
67	YEAGER, RUTH ANNE	523	.00798	0	.00000	0	.00000	0	.00000	0	.00000	523	.00096
68	YEAGER, RUTH ANNE	180	.00275	0	.00000	0	.00000	0	.00000	0	.00000	180	.00033
69	YEAGER, RUTH PEELER	755	.01151	0	.00000	0	.00000	0	.00000	0	.00000	755	.00137
		6880000	100.00000	18000000	100.00000	24400000	100.00000	4240000	100.00000	46640000	100.00000	89200000	100.00000

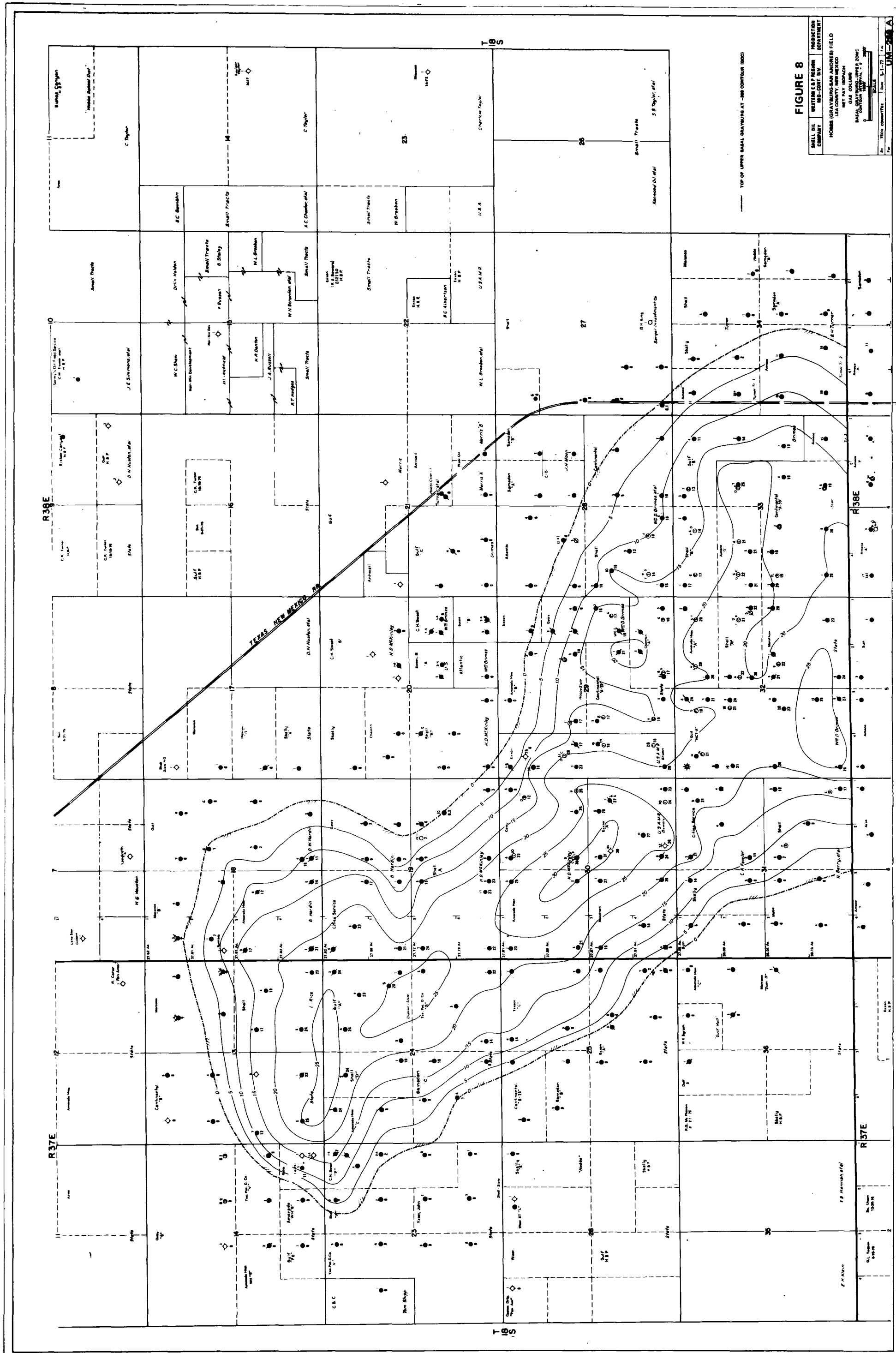
TABLE 21 A

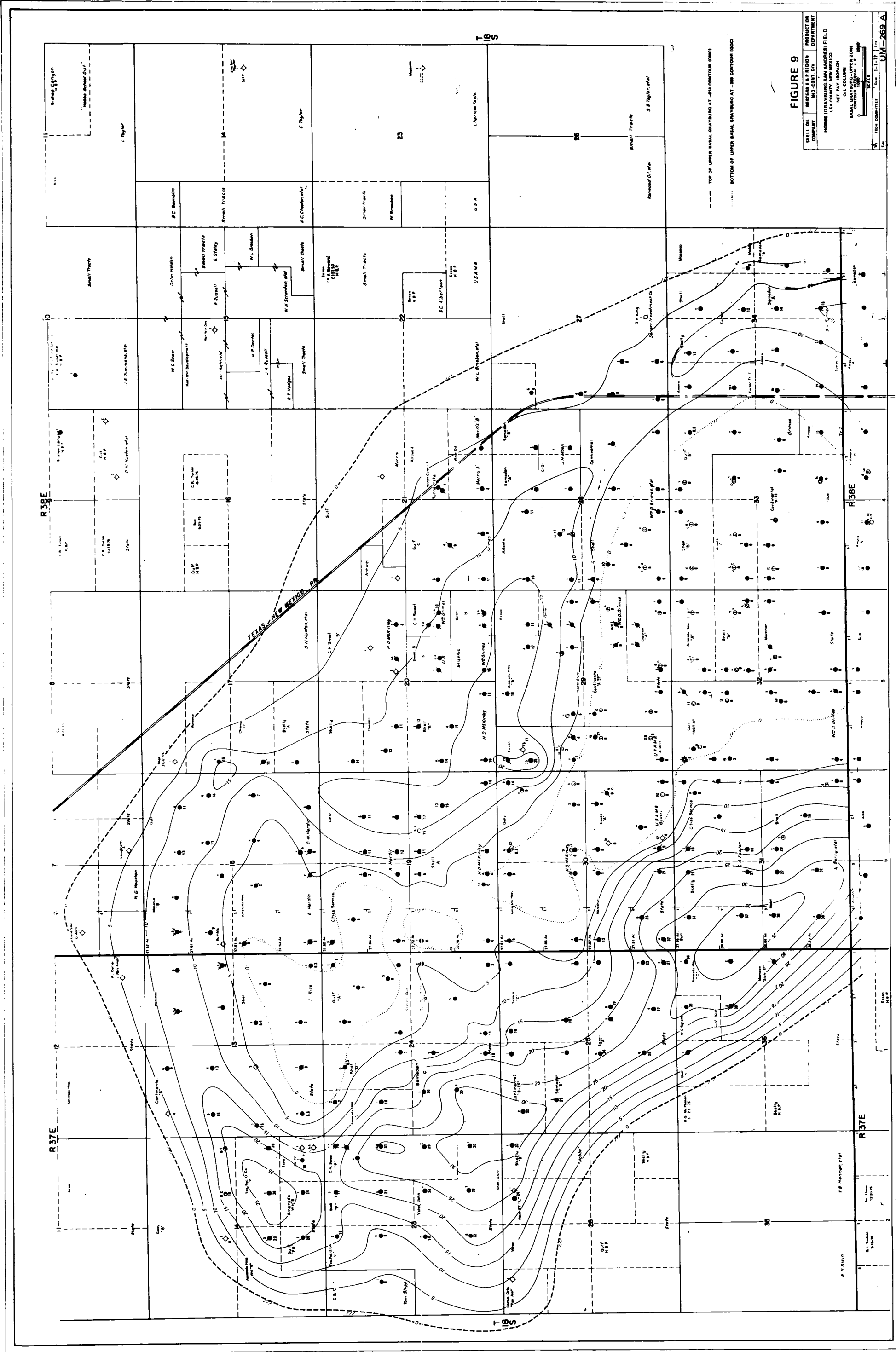
UNITIZATION PARAMETERS - WELLS, PRODUCTION AND GAS CAP VOLUMETRICS

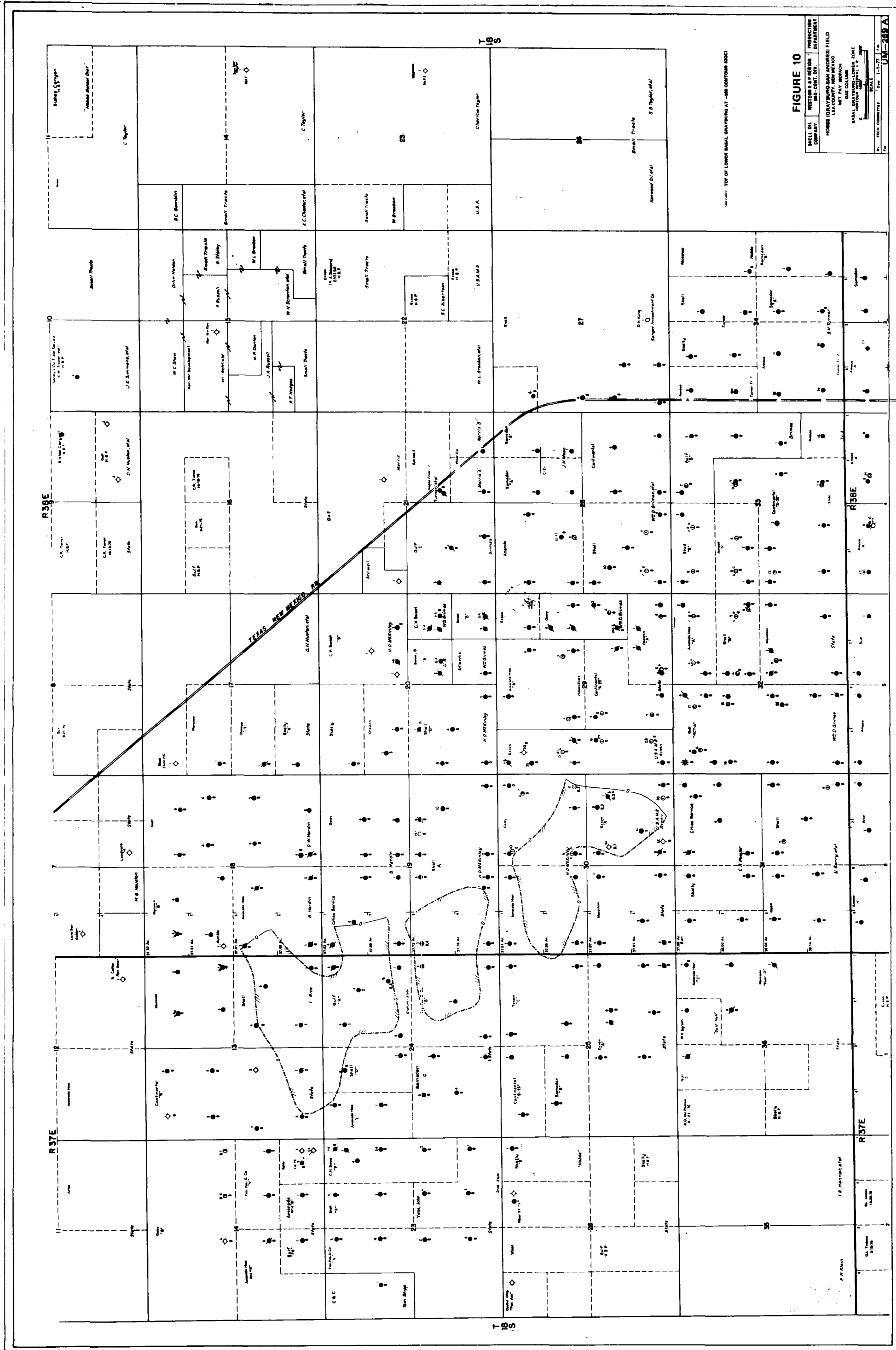
TR NO.	TRACT NAME		NUMBER OF WELLS 1/1/77		CUMULATIVE *		CURRENT PROD., YEAR 1976		ORIGINAL GAS CAP GAS IN PLACE				UNIT TOTAL		TR NO.														
	OPERATOR - LEASE	USEABLE	NO.	%	NO.	%	ACTIVE	%	OIL PROD. 1/1/77	BBLs	%	GAS	MCF	%	GRAYBURG UPPER	MCF	%	GRAYBURG LWR.	MCF	%	GRAYBURG TOTAL	MCF	%	S.A. ZONE I	MCF	%	UNIT TOTAL	%	TR NO.
1	GETTY - STATE B	2.00	82987	90090	2.00	82987	90090	90090	59346	0.3554	1202	0.0732	1202	0.0732	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	1
2	AMERADA - STATE A	2.00	82987	90090	2.00	82987	90090	90090	130243	0.8230	1254	0.7532	1254	0.7532	5348	0.0000	0	0.0000	0	0.0000	5348	0.0000	0	0.0000	0	0.0000	5348	0.0000	2
3	GULF - LEA FO STATE	1.00	91494	45045	1.00	91494	45045	45045	69916	0.4186	9246	0.5039	9246	0.5039	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	3
4	TEXAS PACIFIC - STATE A	2.00	82987	90090	2.00	82987	90090	90090	182123	1.1466	31010	1.7302	31010	1.7302	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	4
5	ESTES ENGR. - STATE F	1.00	91494	45045	1.00	91494	45045	45045	75154	0.4500	3681	1.9332	3681	1.9332	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	5
6	AMERADA - STATE A	2.00	82987	90090	2.00	82987	90090	90090	182123	1.1466	31010	1.7302	31010	1.7302	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	6
7	SHELL - RICE	4.00	1.65975	4.00	1.65975	4.00	1.65975	4.00	170730	1.02014	15090	0.5044	10528	0.5044	1640295	0.0000	0	0.0000	0	0.0000	1640295	0.0000	0	0.0000	0	0.0000	1640295	0.0000	7
8	AMERADA - STATE A	2.00	82987	90090	2.00	82987	90090	90090	182123	1.1466	31010	1.7302	31010	1.7302	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	8
9	GULF - DAN MARRIN	9.00	3.73444	8.00	3.60361	1.77497	1.04281	1.04281	177497	1.04281	13604	0.4942	130845	0.4942	258603	0.0000	0	0.0000	0	0.0000	258603	0.0000	0	0.0000	0	0.0000	258603	0.0000	9
10	MORANCO - STATE I	1.00	91494	45045	1.00	91494	45045	45045	71881	0.4305	1481	0.0138	2732	0.0138	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	10
11	CHEVRON - STATE I	1.00	91494	45045	1.00	91494	45045	45045	6188	0.03706	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	11
12	GETTYSBURY - STATE A	1.00	91494	45045	1.00	91494	45045	45045	321241	1.9339	3162	0.4251	2148	0.4251	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	12
13	AMERADA - STATE A	2.00	82987	90090	2.00	82987	90090	90090	42923	0.2570	4377	0.5759	4377	0.5759	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	13
14	WISER - MORRIS A	1.00	91494	45045	1.00	91494	45045	45045	502021	3.0359	8312	1.5212	85243	1.5212	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	14
15	WISER - MORRIS A	1.00	91494	45045	1.00	91494	45045	45045	573247	3.4324	8814	1.2170	18127	1.2170	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	15
16	C M SHEET - STATE F	3.00	1.65975	3.00	1.35135	1.42234	0.88451	0.88451	142234	0.88451	1126	0.3302	20436	0.3302	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	16
17	C M SHEET - STATE F	3.00	1.65975	3.00	1.35135	1.42234	0.88451	0.88451	96732	0.5792	1126	0.3302	20436	0.3302	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	17
18	GETTYSBURY - STATE A	1.00	91494	45045	1.00	91494	45045	45045	404108	2.4292	1154	0.4211	5895	0.4211	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	18
19	CHEVRON - STATE A	2.00	82987	90090	2.00	82987	90090	90090	108200	0.6419	15031	0.5849	25540	0.5849	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	19
20	C M SHEET - STATE F	3.00	1.65975	3.00	1.35135	1.42234	0.88451	0.88451	373039	2.2336	1112	0.4058	3110	0.4058	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	20
21	BILL SHEET - STATE F	1.00	91494	45045	1.00	91494	45045	45045	42552	0.2570	4377	0.5759	4377	0.5759	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	21
22	BILL SHEET - STATE F	1.00	91494	45045	1.00	91494	45045	45045	42552	0.2570	4377	0.5759	4377	0.5759	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	22
23	ATLANTIC RICH - GRIPES	5.00	2.07469	5.00	2.07469	5.00	2.07469	5.00	305574	1.8626	3216	0.1735	20072	0.1735	2407	0.0000	0	0.0000	0	0.0000	2407	0.0000	0	0.0000	0	0.0000	2407	0.0000	23
24	SHELL - MCKINLEY B	1.00	91494	45045	1.00	91494	45045	45045	182123	1.1466	31010	1.7302	31010	1.7302	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	0	0.0000	0	0.0000	28351	0.0000	24
25	GETTY - BOONE MARCH	4.00	1.65975	4.00	1.65975	4.00	1.65975	4.00	320969	1.92149	15077	0.5017	45683	0.5017	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	25
26	CITIES SERVICE - HARBIN	5.00	2.07469	5.00	2.07469	5.00	2.07469	5.00	344522	2.04127	27371	1.02048	37303	1.02048	5482	0.0000	0	0.0000	0	0.0000	5482	0.0000	0	0.0000	0	0.0000	5482	0.0000	26
27	SHELL - MCKINLEY A	9.00	3.73444	8.00	3.60361	1.77497	1.04281	1.04281	935090	5.59891	16619	0.60803	28979	0.60803	227537	0.0000	0	0.0000	0	0.0000	227537	0.0000	0	0.0000	0	0.0000	227537	0.0000	27
28	GULF - GRIFFIN STATE A	4.00	2.07469	4.00	2.07469	4.00	2.07469	4.00	258251	1.57888	16508	0.80282	103708	0.80282	205328	0.0000	0	0.0000	0	0.0000	205328	0.0000	0	0.0000	0	0.0000	205328	0.0000	28
29	SHELL - STATE D	2.00	82987	90090	2.00	82987	90090	90090	1079156	6.4617	30111	1.10972	89993	1.10972	87006	0.0000	0	0.0000	0	0.0000	87006	0.0000	0	0.0000	0	0.0000	87006	0.0000	29
30	AMERADA - STATE A	2.00	82987	90090	2.00	82987	90090	90090	1025544	6.1408	10245	0.3285	3352	0.3285	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	30
31	TEXAS PACIFIC - STATE G	4.00	1.65975	4.00	1.65975	4.00	1.65975	4.00	424573	2.53954	11644	0.42564	137507	0.42564	1780082	0.0000	0	0.0000	0	0.0000	1780082	0.0000	0	0.0000	0	0.0000	1780082	0.0000	31
32	SANADAN - STATE C	4.00	1.65975	4.00	1.65975	4.00	1.65975	4.00	348330	2.08563	111284	0.40430	153141	0.40430	444490	0.0000	0	0.0000	0	0.0000	444490	0.0000	0	0.0000	0	0.0000	444490	0.0000	32
33	C M SHEET - STATE F	3.00	1.65975	3.00	1.35135	1.42234	0.88451	0.88451	336367	3.9523	8527	0.3116	11733	0.3116	230183	0.0000	0	0.0000	0	0.0000	230183	0.0000	0	0.0000	0	0.0000	230183	0.0000	33
34	SHELL - STATE F	2.00	82987	90090	2.00	82987	90090	90090	123450	0.7431	1745	0.2539	18343	0.2539	28863	0.0000	0	0.0000	0	0.0000	28863	0.0000	0	0.0000	0	0.0000	28863	0.0000	34
35	TEXAS PACIFIC - STATE A	4.00	1.65975	4.00	1.65975	4.00	1.65975	4.00	299905	1.7957	4655	0.2023	15187	0.2023	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	35
36	CAC OPERA - STATE A	1.00	91494	45045	1.00	91494	45045	45045	18532	0.1110	749	0.0216	32	0.0216	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	36
37	JOHN A VATES - SHELL STATE	3.00	1.24481	3.00	1.35135	1.42234	0.88451	0.88451	423355	2.5349	5924	0.2125	29571	0.2125	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	37
38	WISER - STATE I	1.00	91494	45045	1.00	91494	45045	45045	102643	0.6043	284	0.0104	0	0.0104	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	38
39	GETTYSBURY - STATE E	1.00	91494	45045	1.00	91494	45045	45045	827894	5.0281	1802	0.0456	5070	0.0456	28891	0.0000	0	0.0000	0	0.0000	28891	0.0000	0	0.0000	0	0.0000	28891	0.0000	39
40	CONINENTAL - STATE B	2.00	82987	90090	2.00	82987	90090	90090	827894	5.0281	1802	0.0456	5070	0.0456	28891	0.0000	0	0.0000	0	0.0000	28891	0.0000	0	0.0000	0	0.0000	28891	0.0000	40
41	SANADAN - STATE B	2.00	82987	90090	2.00	82987	90090	90090	393201	2.3544	3074	0.1217	12285	0.1217	75	0.0000	0	0.0000	0	0.0000	75	0.0000	0	0.0000	0	0.0000	75	0.0000	41
42	TEXAS PACIFIC - STATE C	4.00	1.65975	4.00	1.659																								





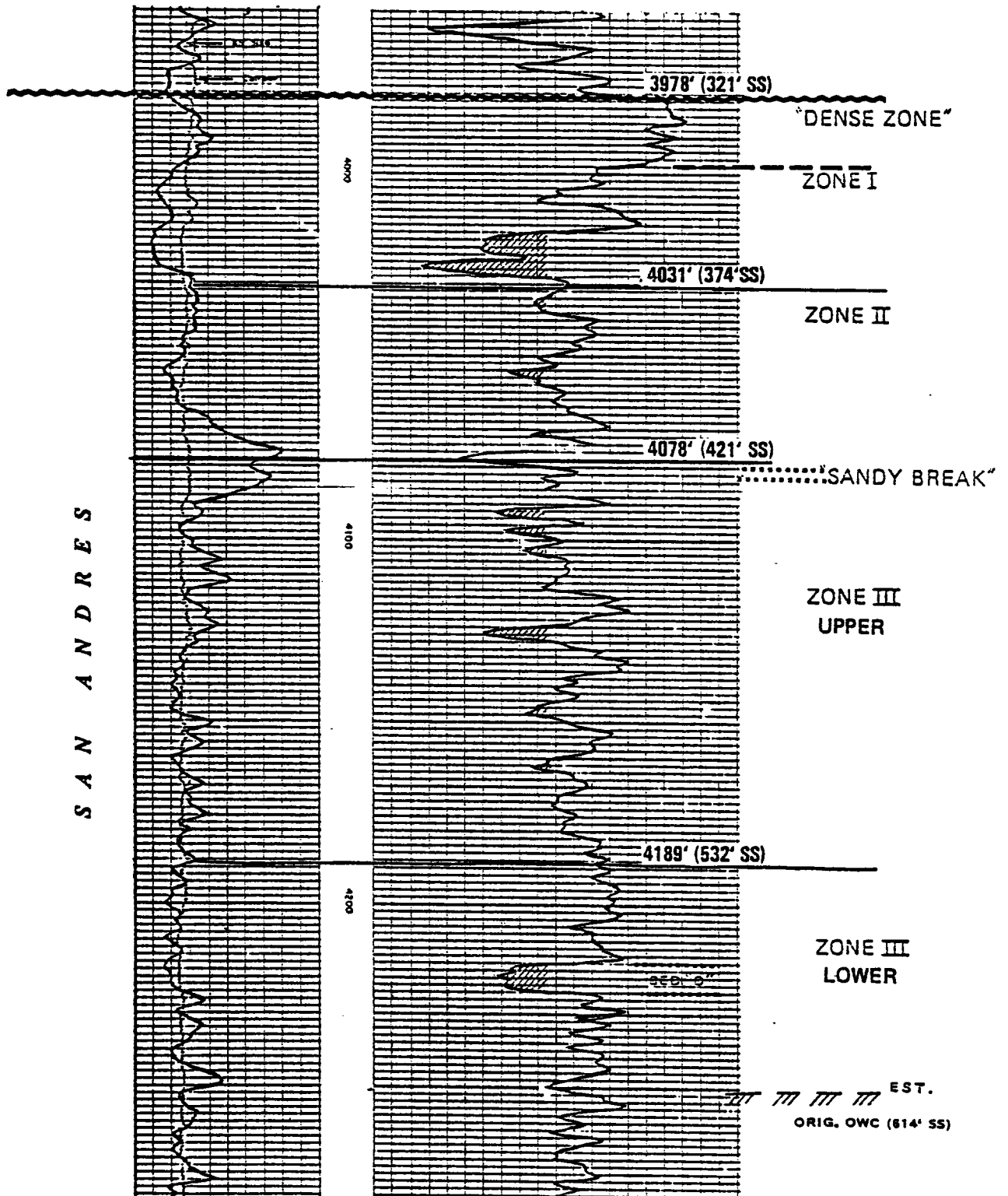






AMOCO STATE G-5

SECTION 33 E
ELEV. 3657' KB



EXAMPLE LOG

SAN ANDRES RESERVOIR



BEDS OF HIGH POROSITY (OVER 15%)

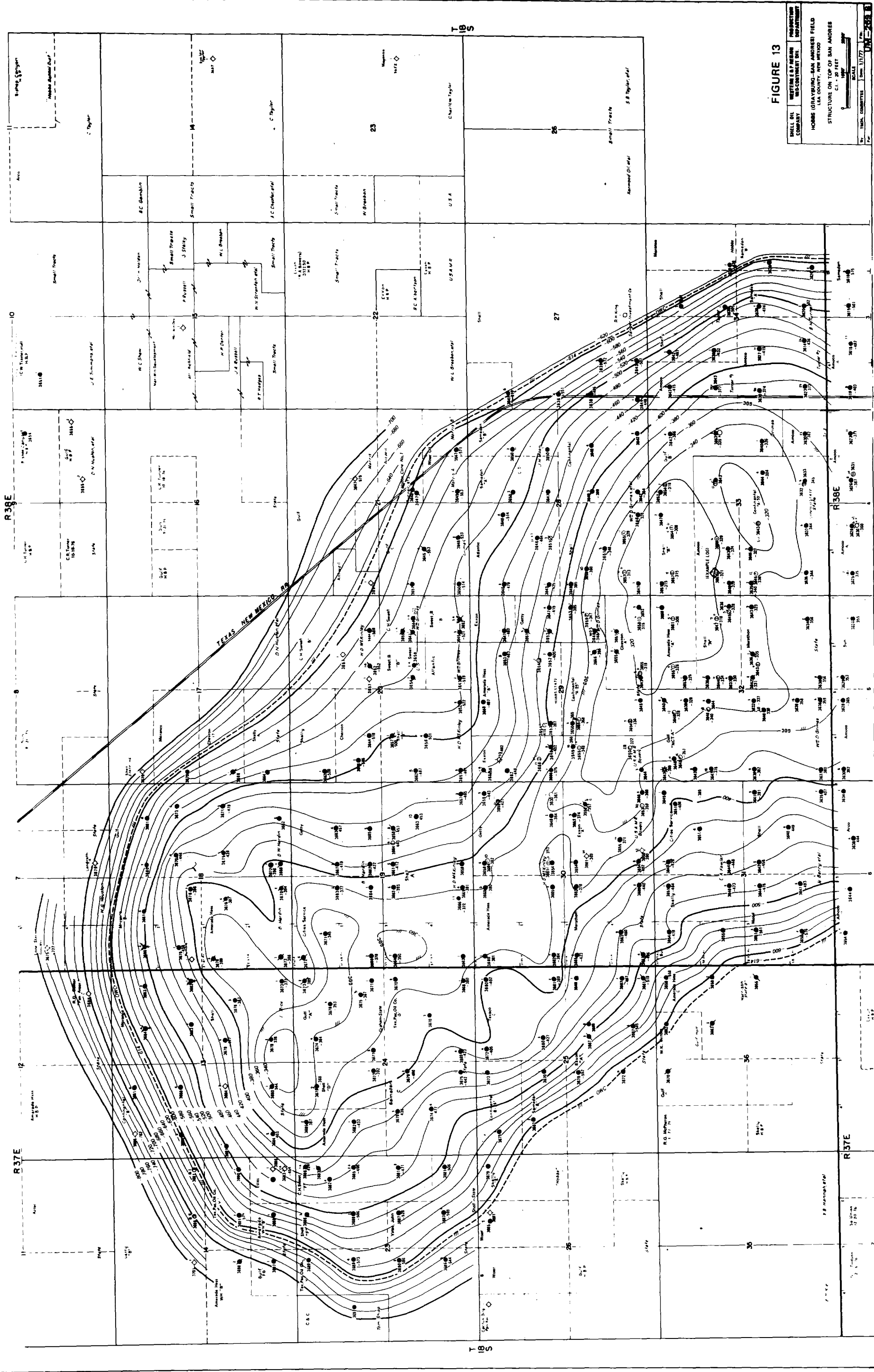
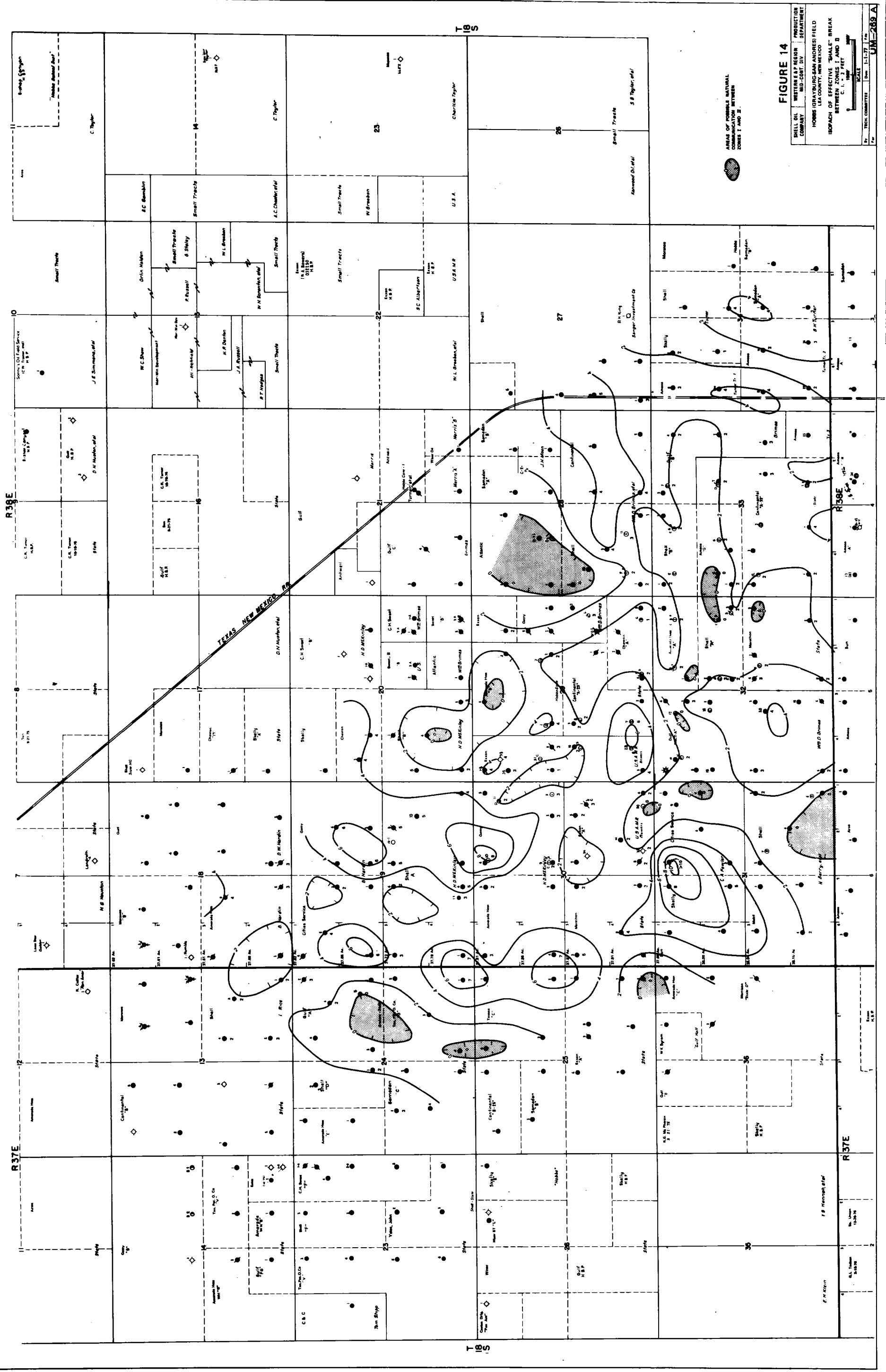


FIGURE 13

SHELL OIL
COMPANY
WESTERN & P. MESSING
HOBBS (GRAVING-SAN ANDRES) FIELD
LIA COUNTY, NEW MEXICO
STRUCTURE ON TOP OF SAN ANDRES
CL - 20 FEET
SCALE
1 MILE
DATE 11/77
BY T. J. JONES



R38E

R37E

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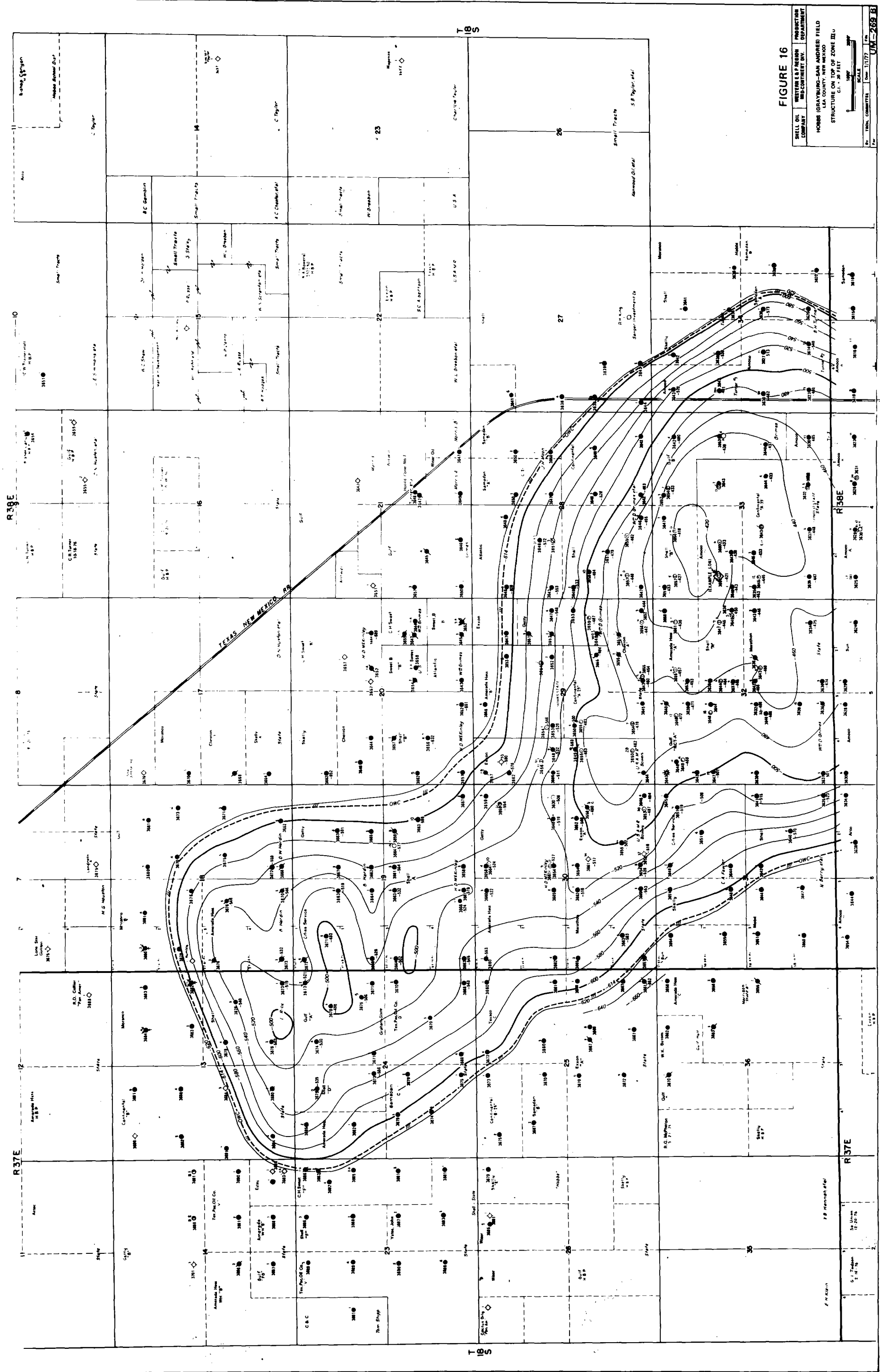


FIGURE 16

SHELL OIL COMPANY	WESTERN L.P. REGION	PRODUCTION DEPARTMENT
HOBBS GRABBING, SAN ANDRES FIELD		
LEA COUNTY, NEW MEXICO		
STRUCTURE ON TOP OF ZONE III		
C. L. 20 FEET		
SCALE		
1" = 100'		
DATE: 1/17/37		
BY: J. M. B. B.		

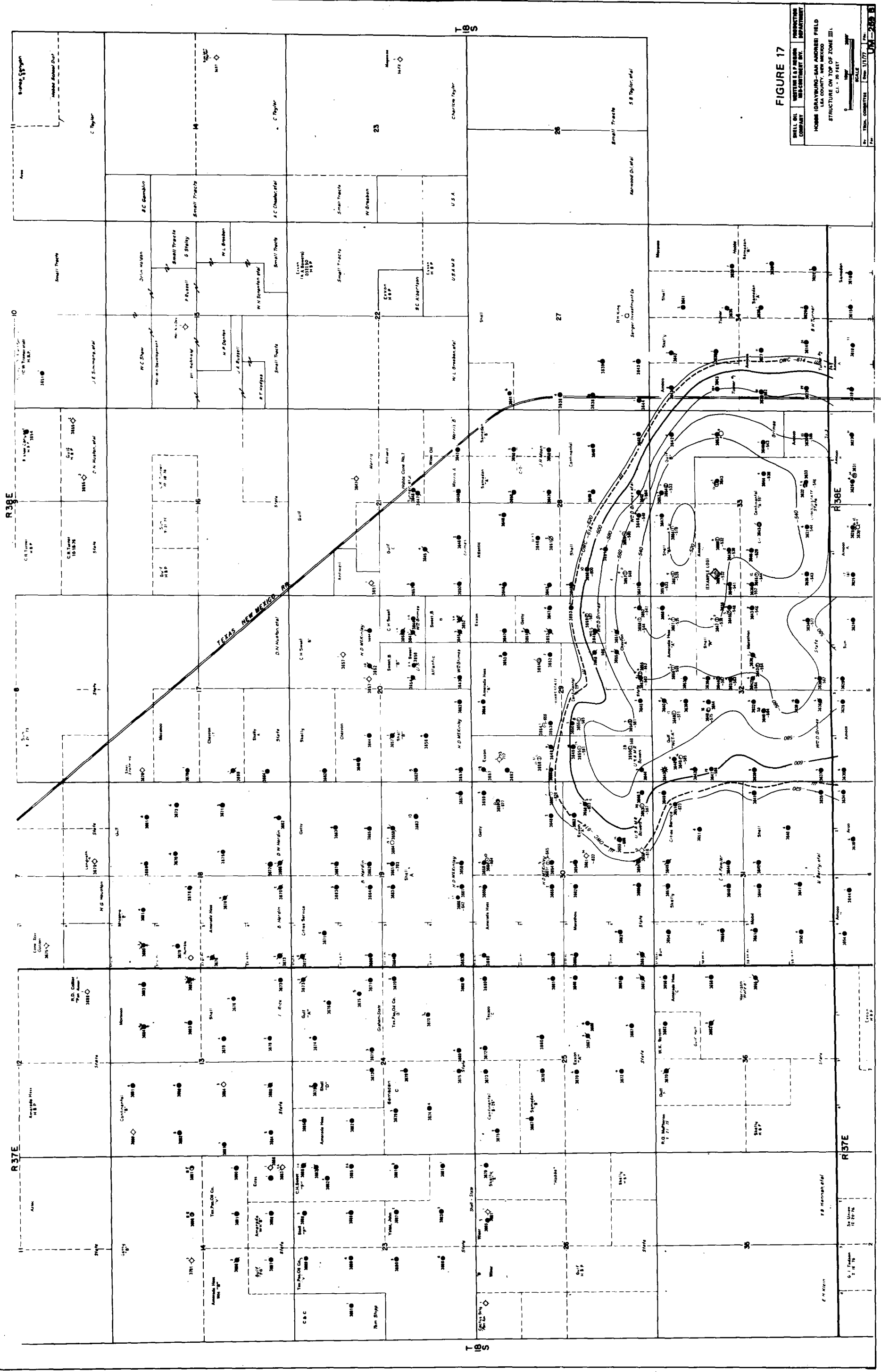
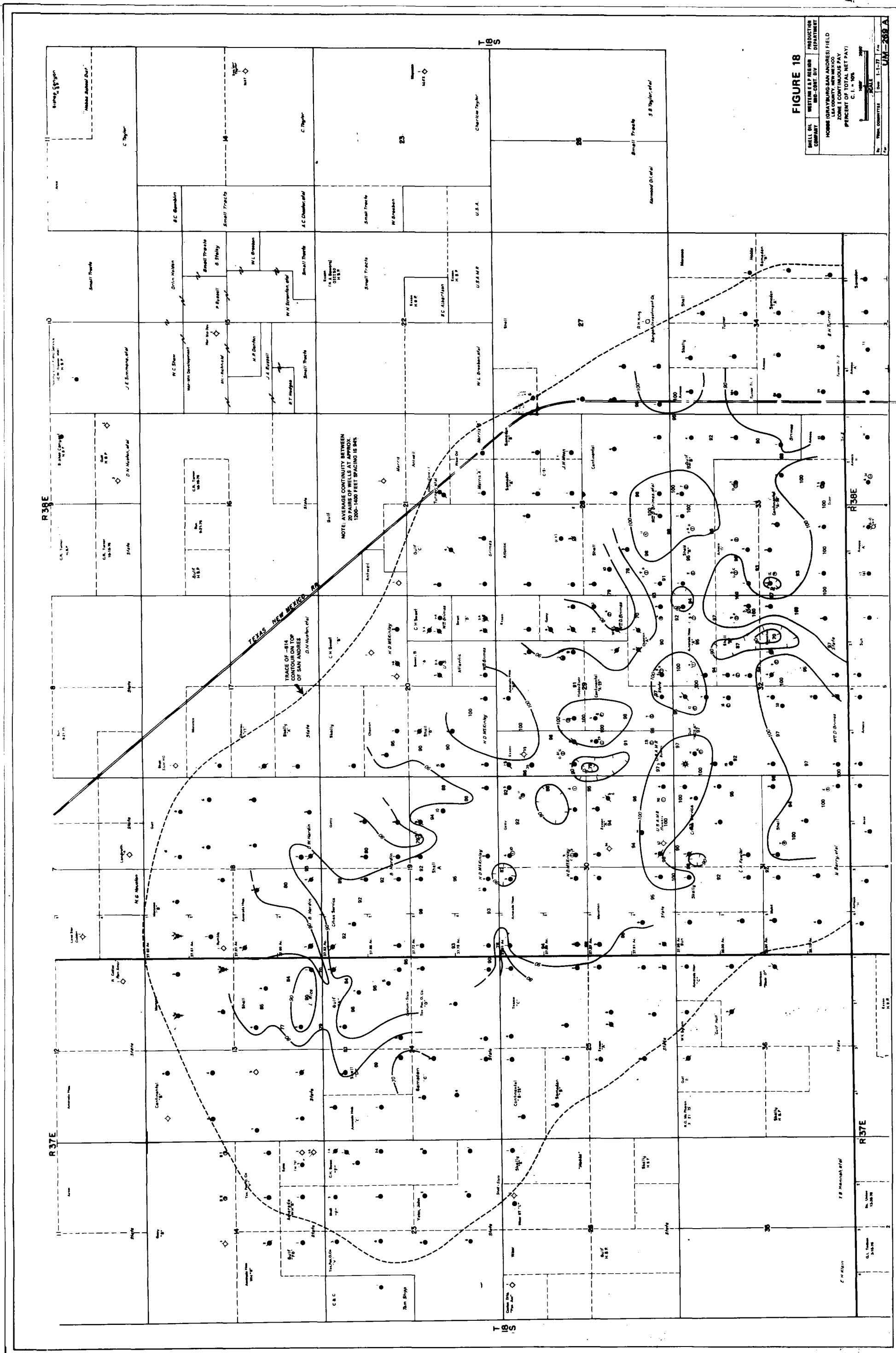
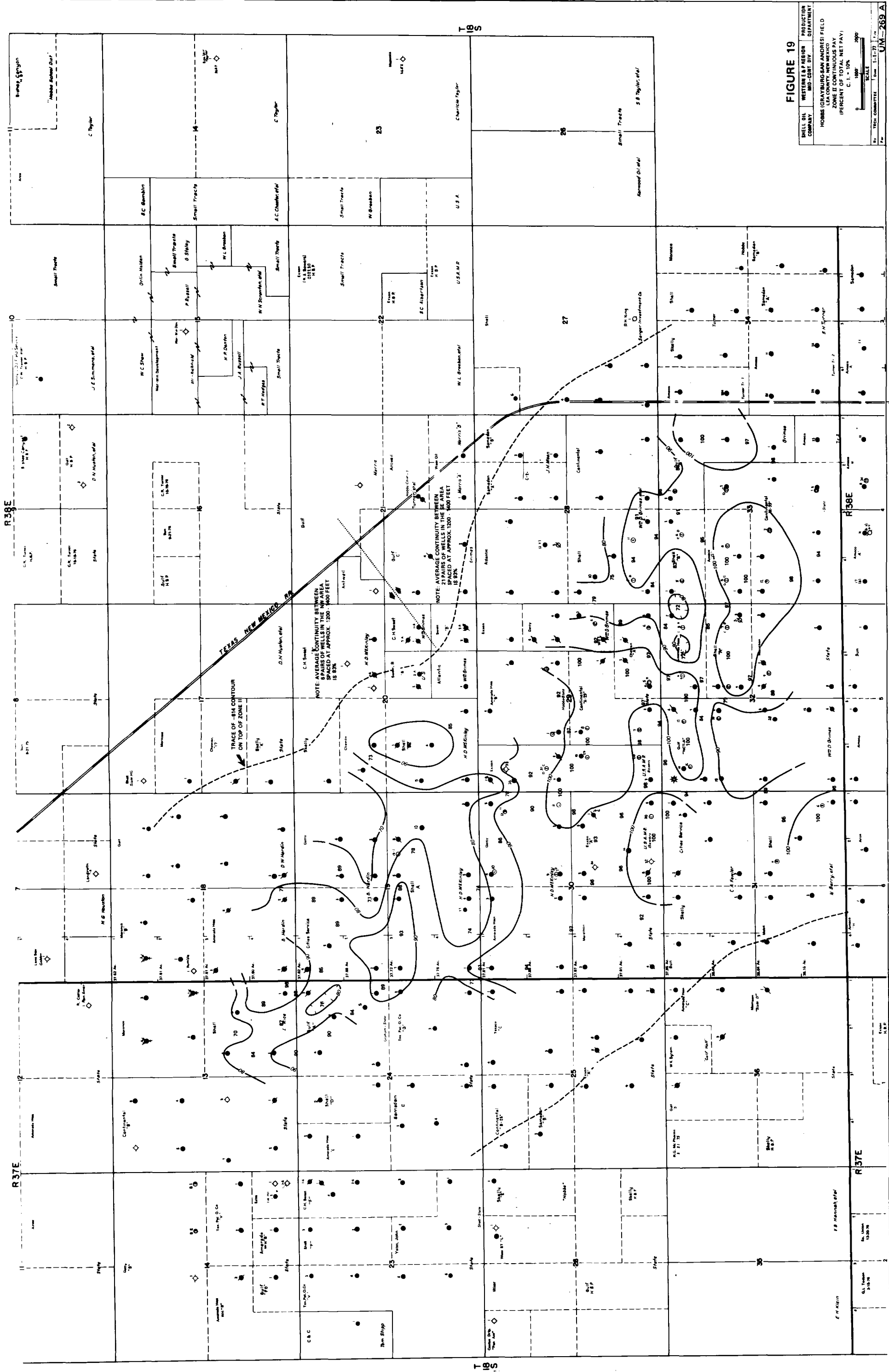
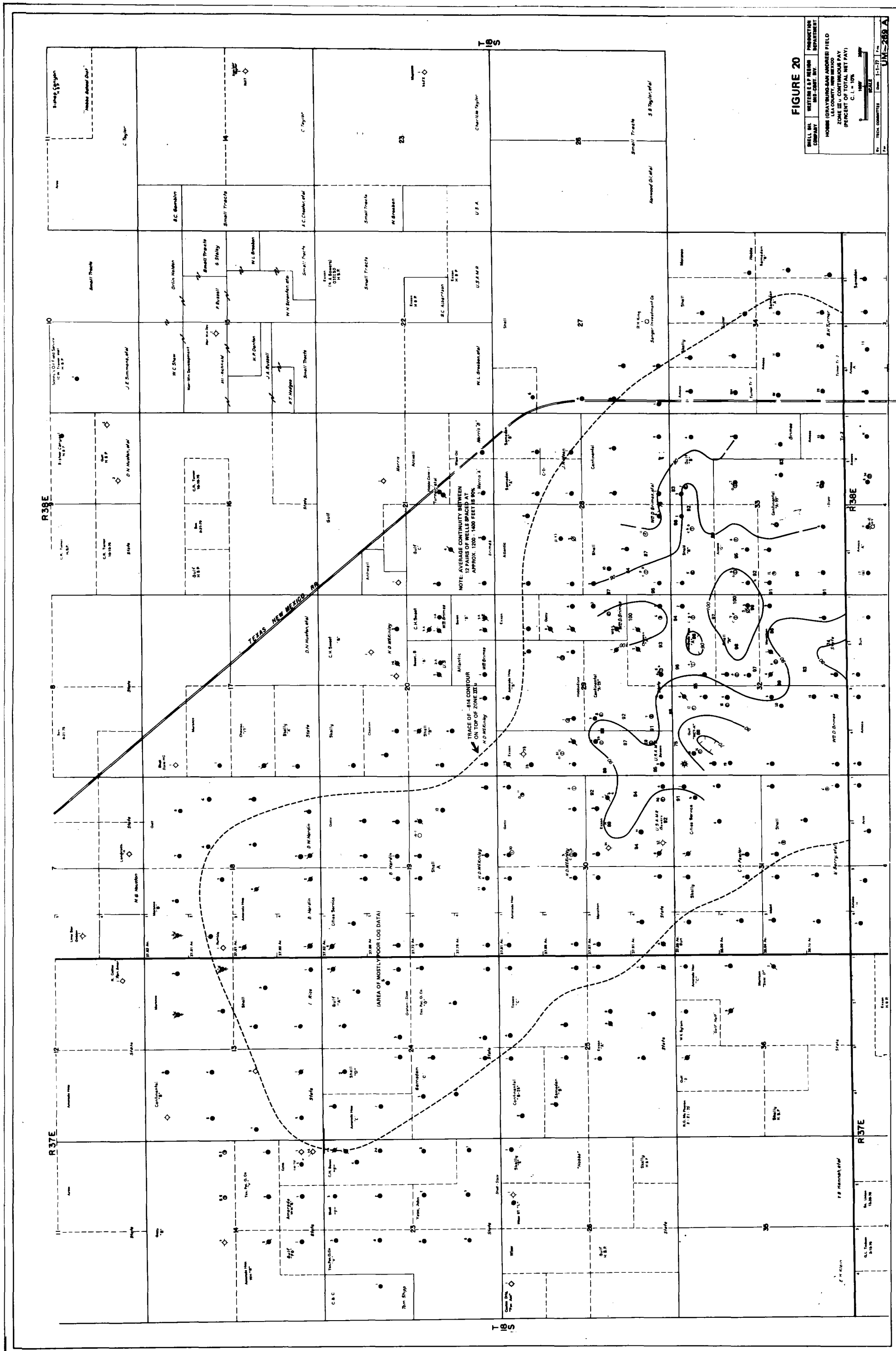
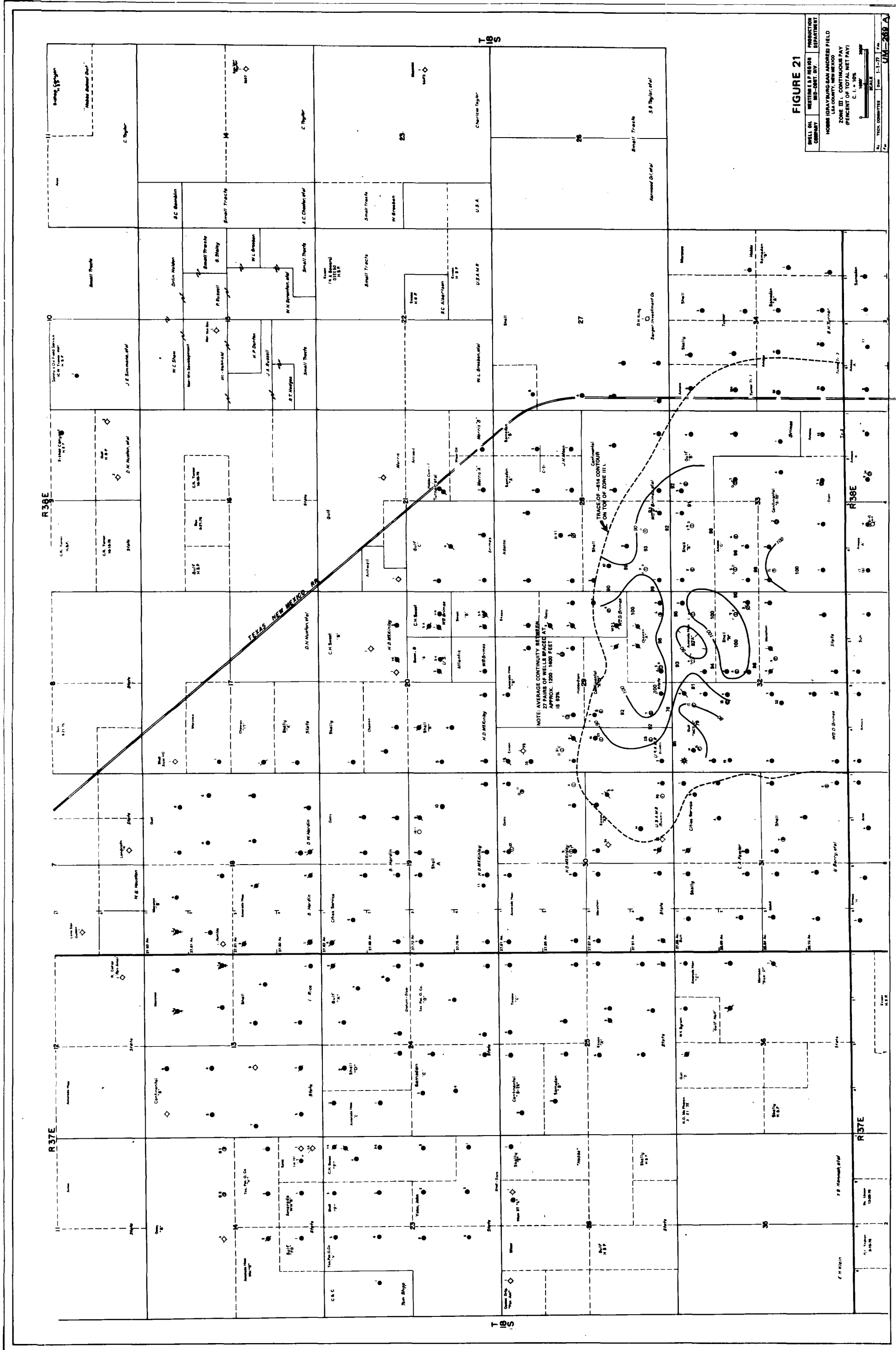


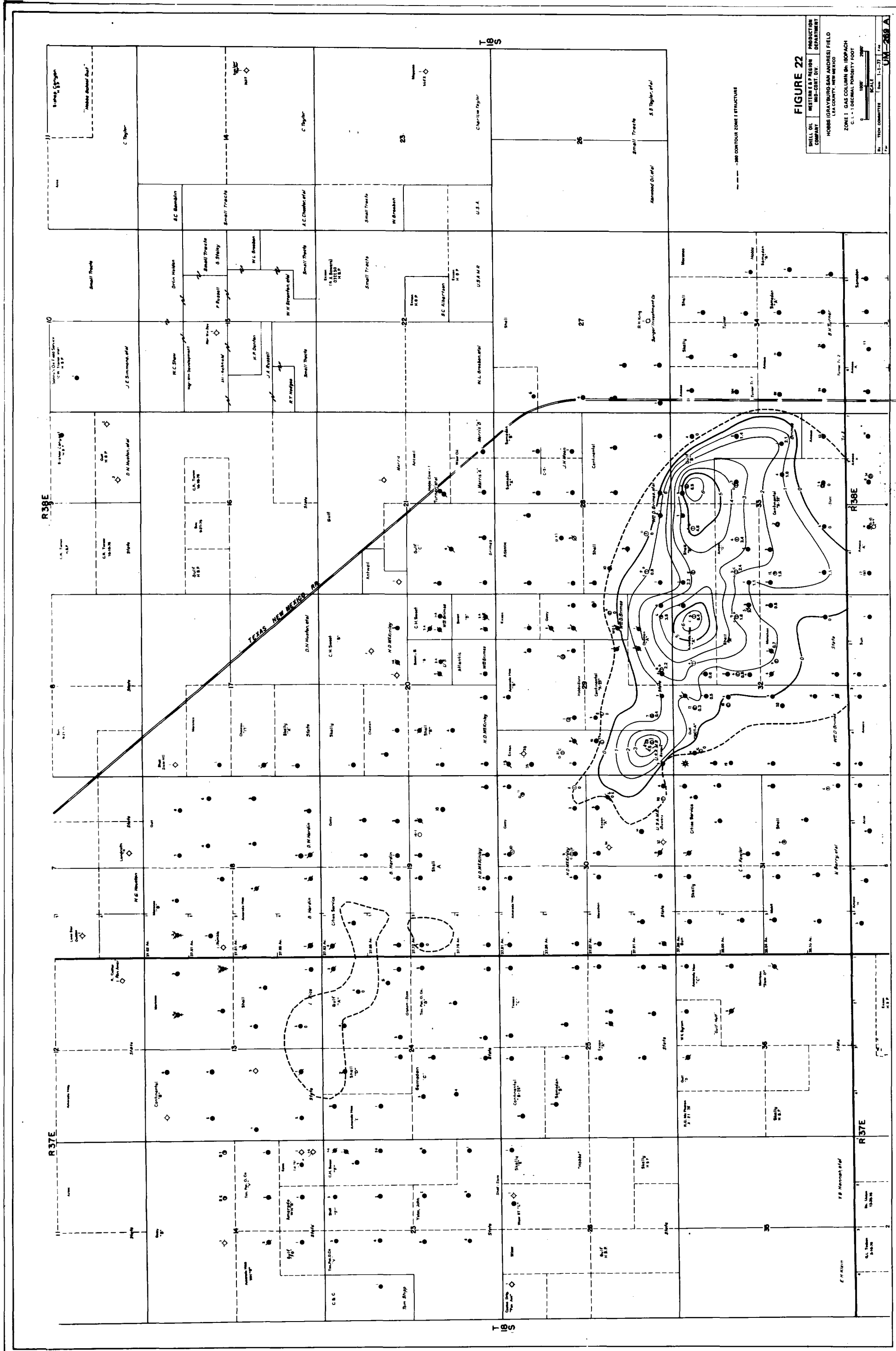
FIGURE 17

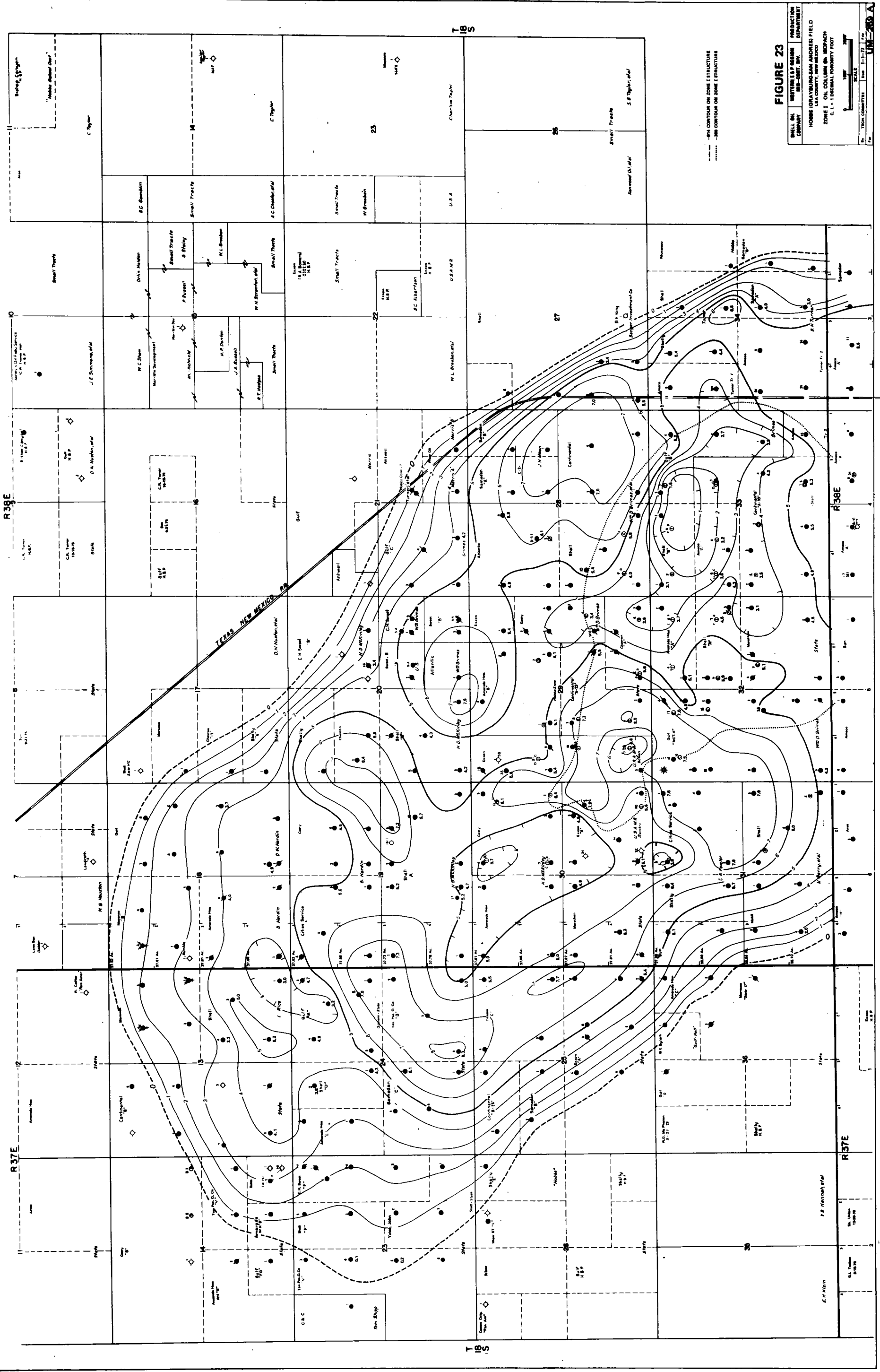












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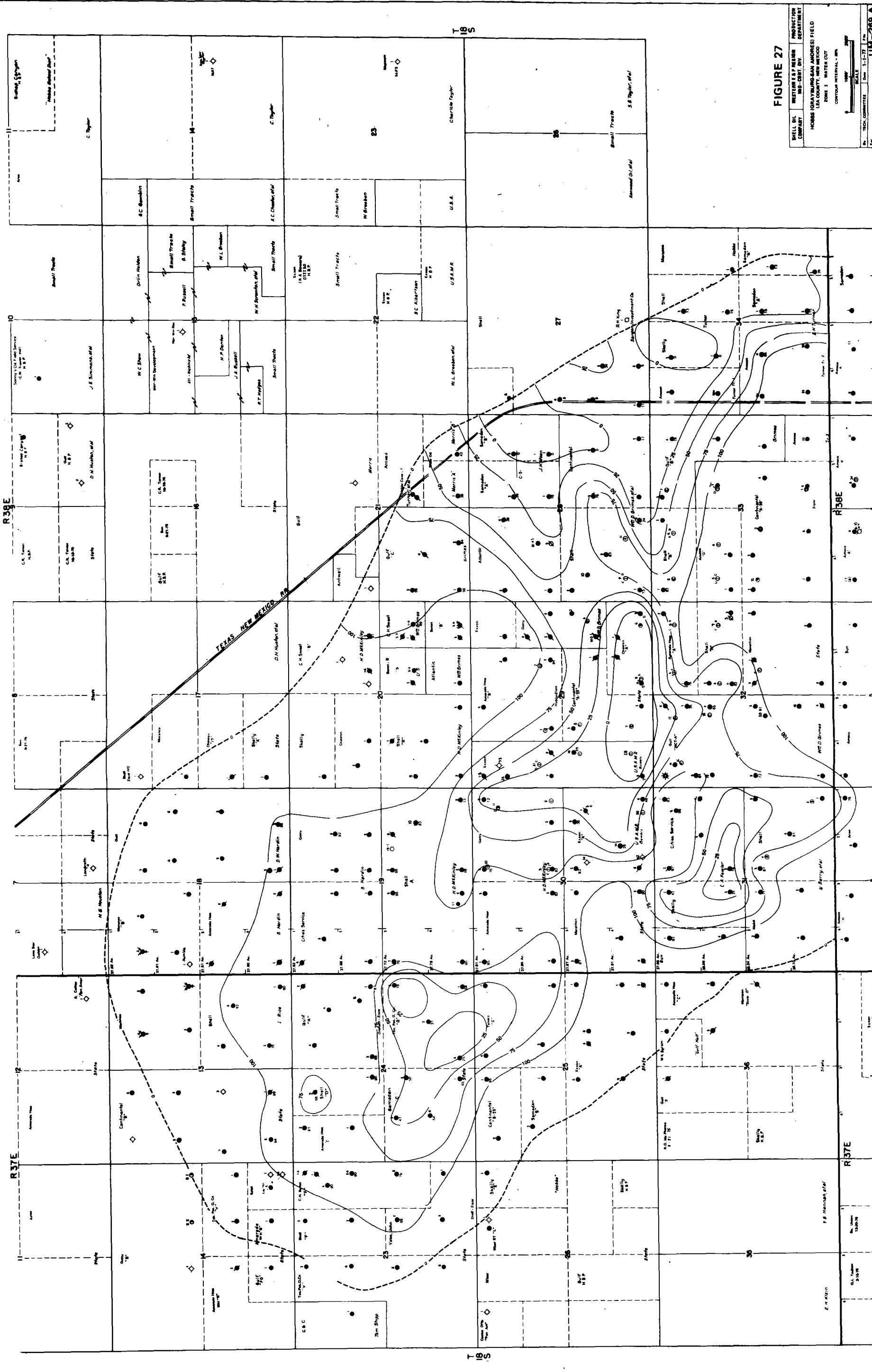


FIGURE 27

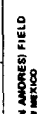
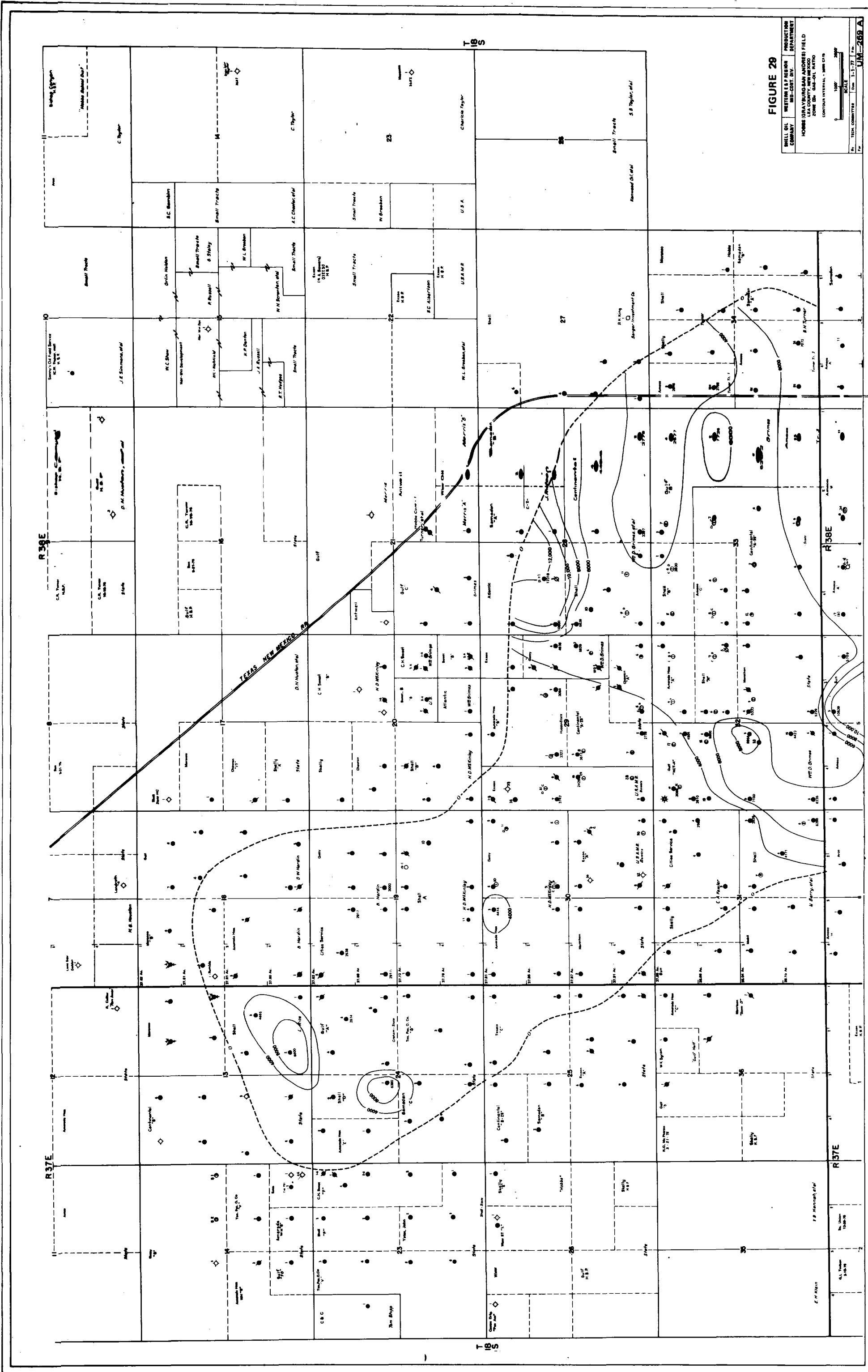
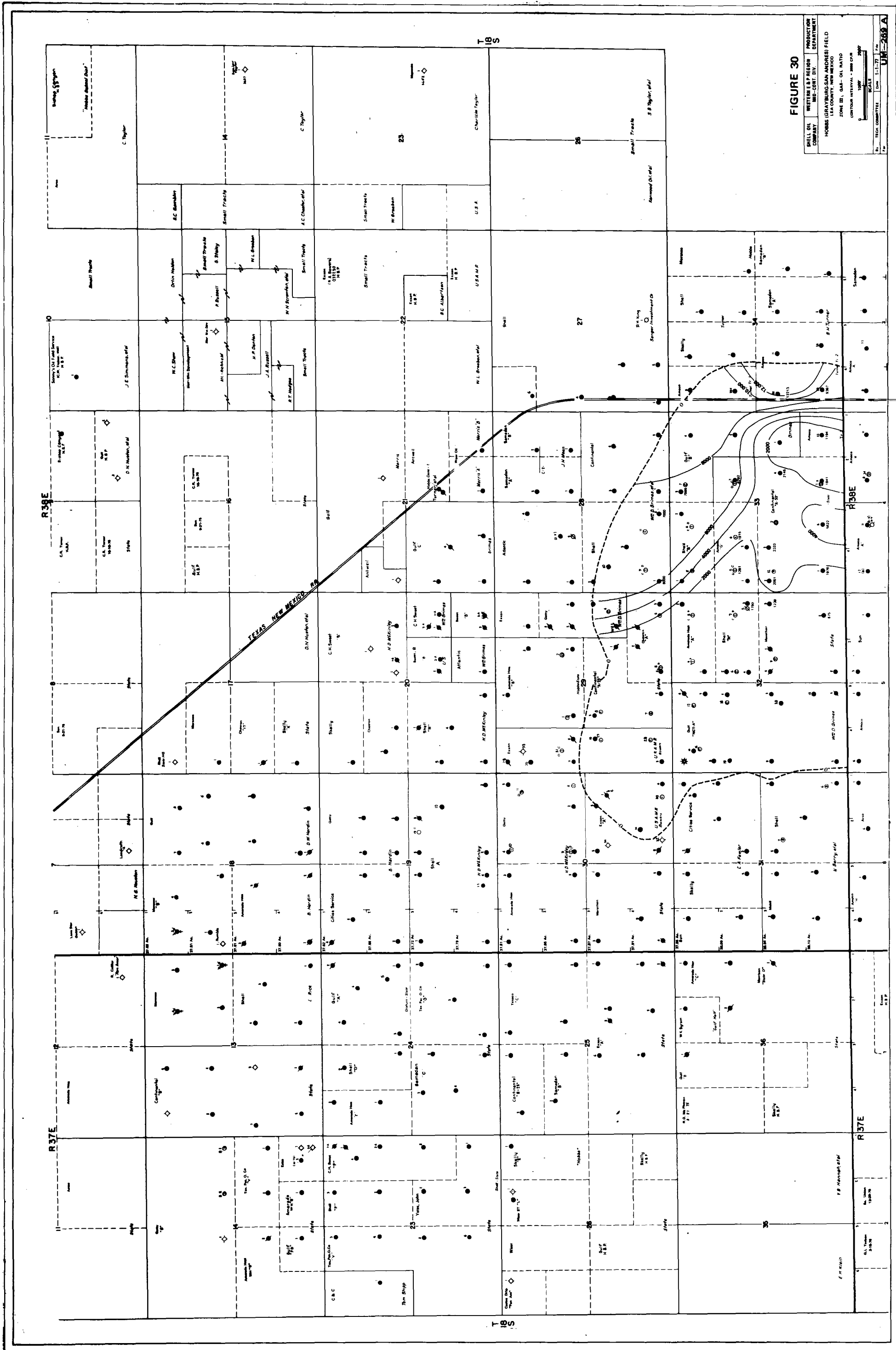
SHELL OIL COMPANY	WESTERN & PACIFIC MID-CONT. DIV.	PRODUCTION DEPARTMENT
HOORS (GRAYBURG-SAN ANDRES) FIELD		
LEA COUNTY, NEW MEXICO		
ZONE 1 WATER CUT		
CONTOUR INTERVAL - 20'		
		
By	TECH. COMMITTEE	Date 1-1-77
		1-20

FIGURE 29

SHELL OIL COMPANY	WESTERN L.S. REGION MID-CONT. DIV.		PRODUCTION DEPARTMENT
	HOME (GRAYBURG-SAN ANDRES) FIELD L.S. COUNTY, NEW MEXICO ZONE 2B - 100-100, 100-100 CONTINENTAL INTERVAL - 1000' ±		
TECH. COMMITTEE		DATE	1-1-77
BY		FILE	UM-269 A





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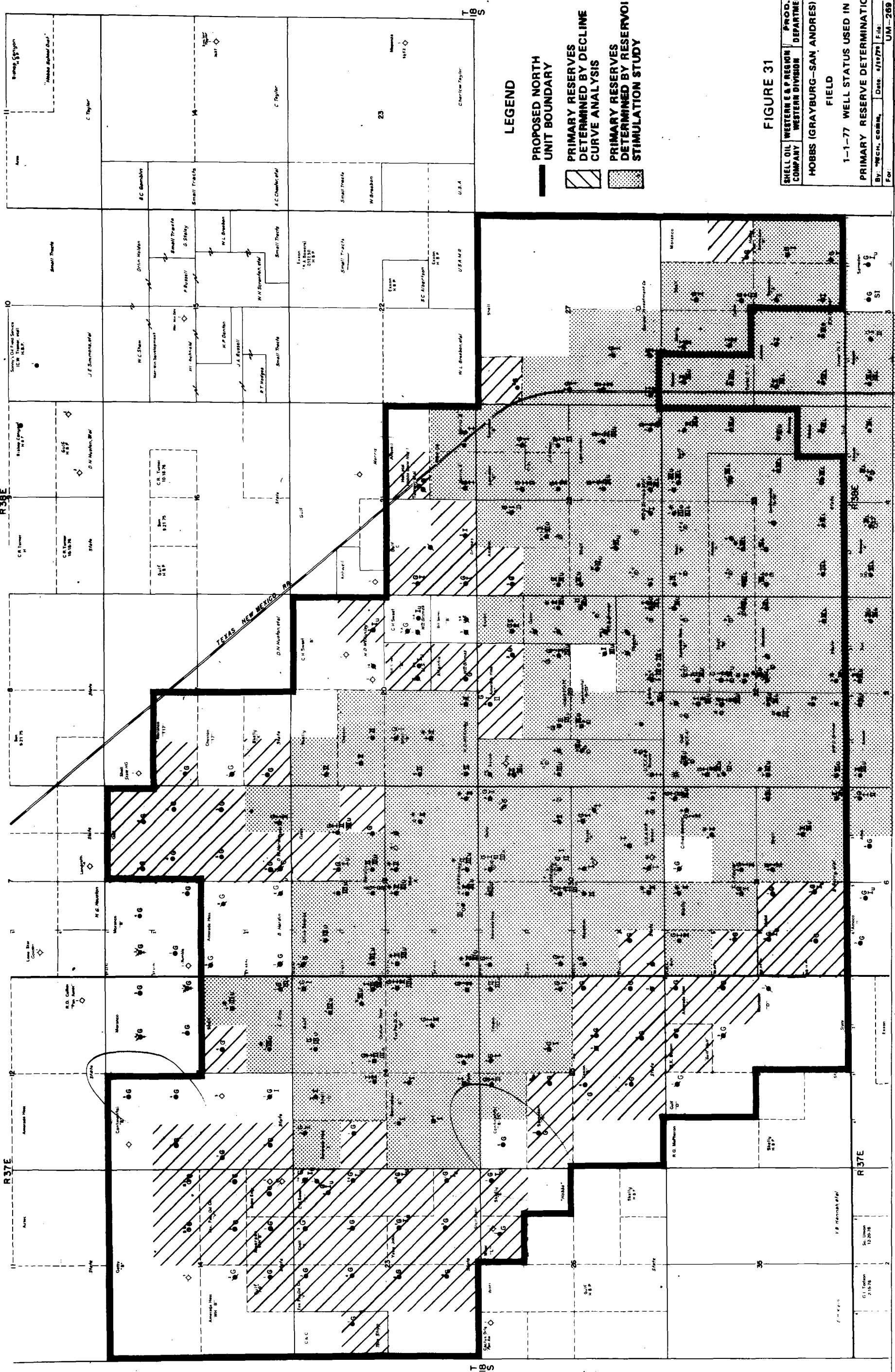
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LEGEND

- PROPOSED NORTH UNIT BOUNDARY
- PRIMARY RESERVES DETERMINED BY DECLINE CURVE ANALYSIS
- PRIMARY RESERVES DETERMINED BY RESERVOIR STIMULATION STUDY

FIGURE 31

SHELL OIL WESTERN & P. REGION	PROD. DEPARTMENT
COMPANY	WESTERN DIVISION
HOBBS (GRAYBURG-SAN ANDRES)	FIELD
1-1-77 WELL STATUS USED IN	PRIMARY RESERVE DETERMINATION
By: <i>W.C.M.</i>	Date: <i>4/11/77</i>
For:	UM-269 C



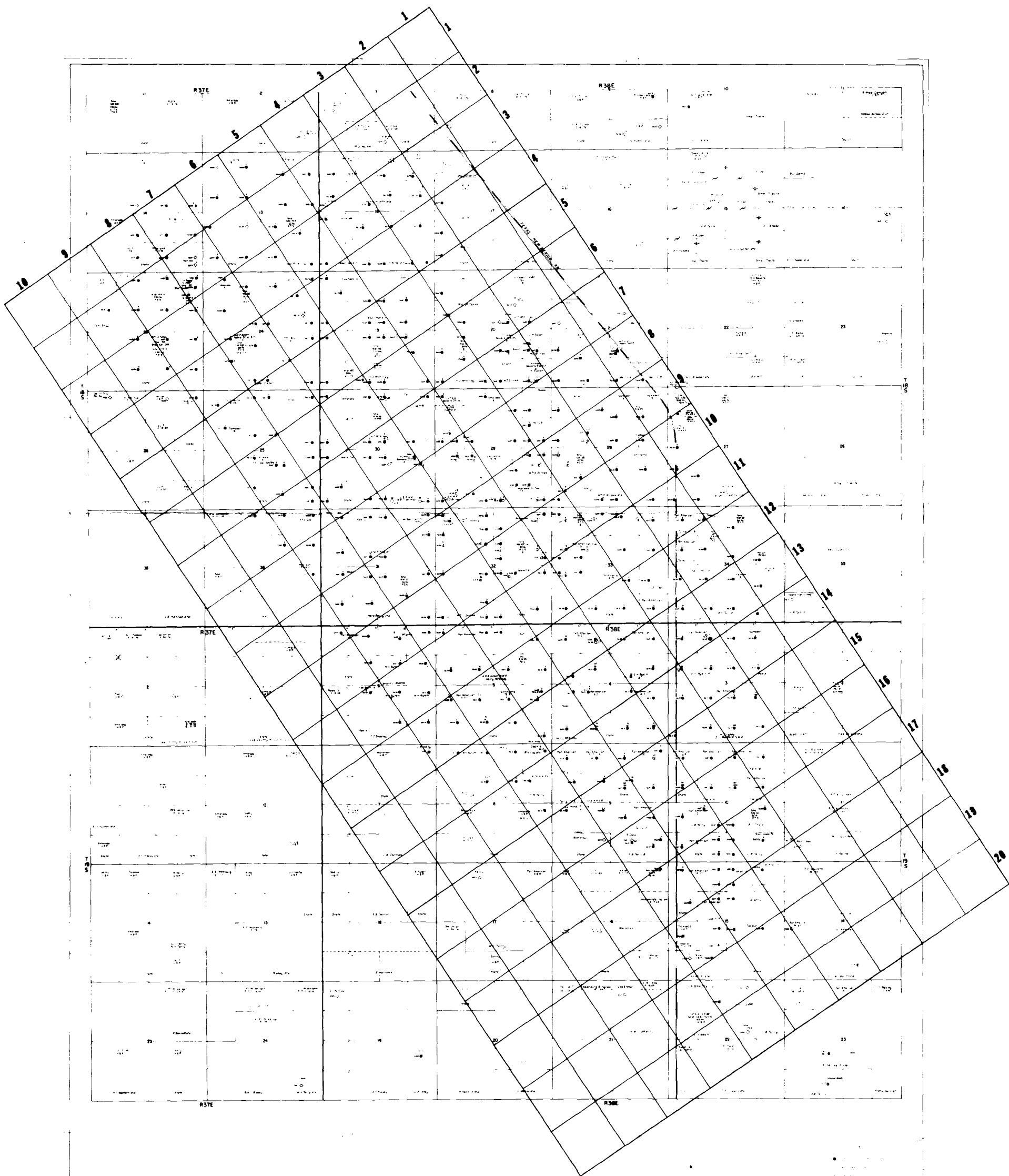
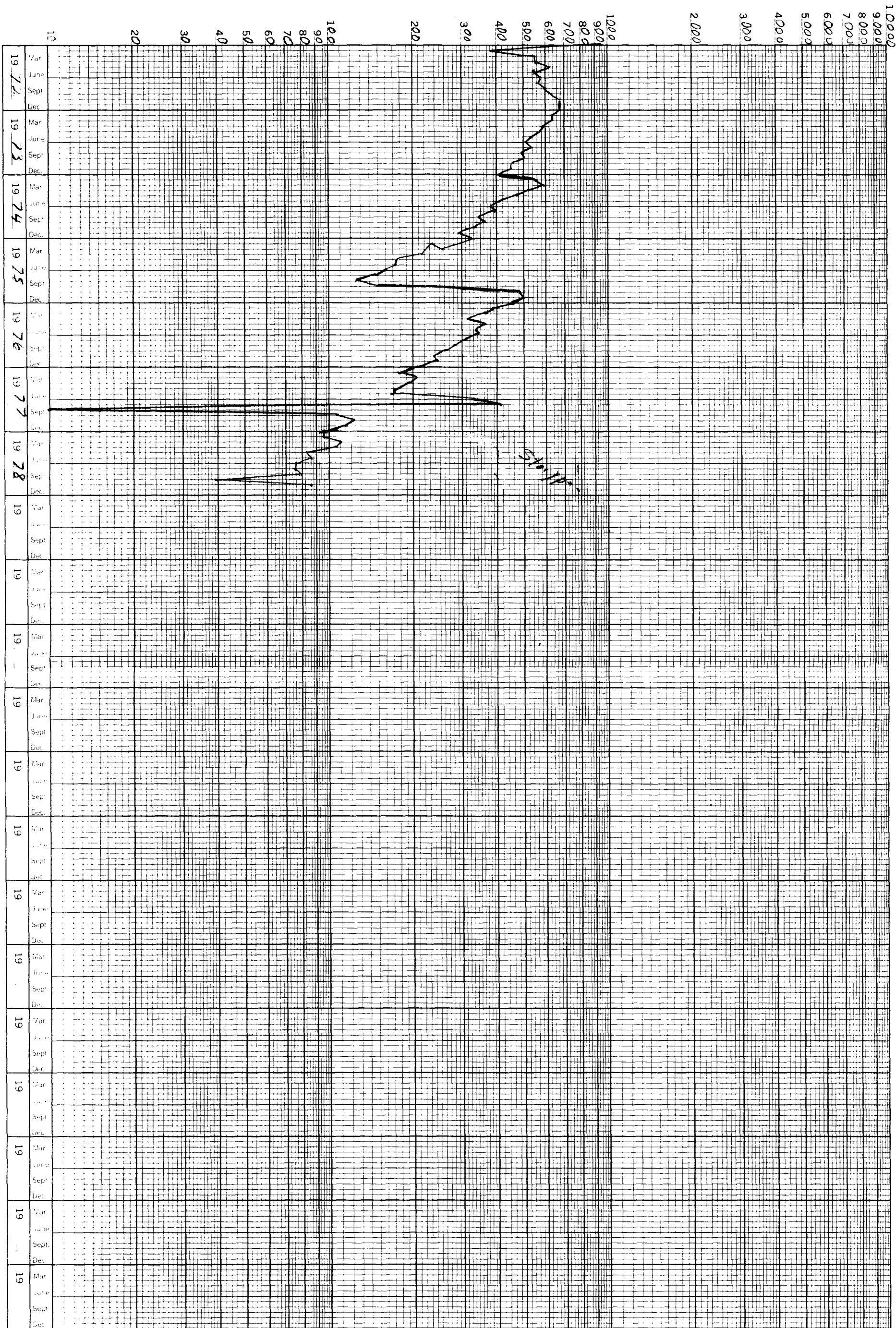


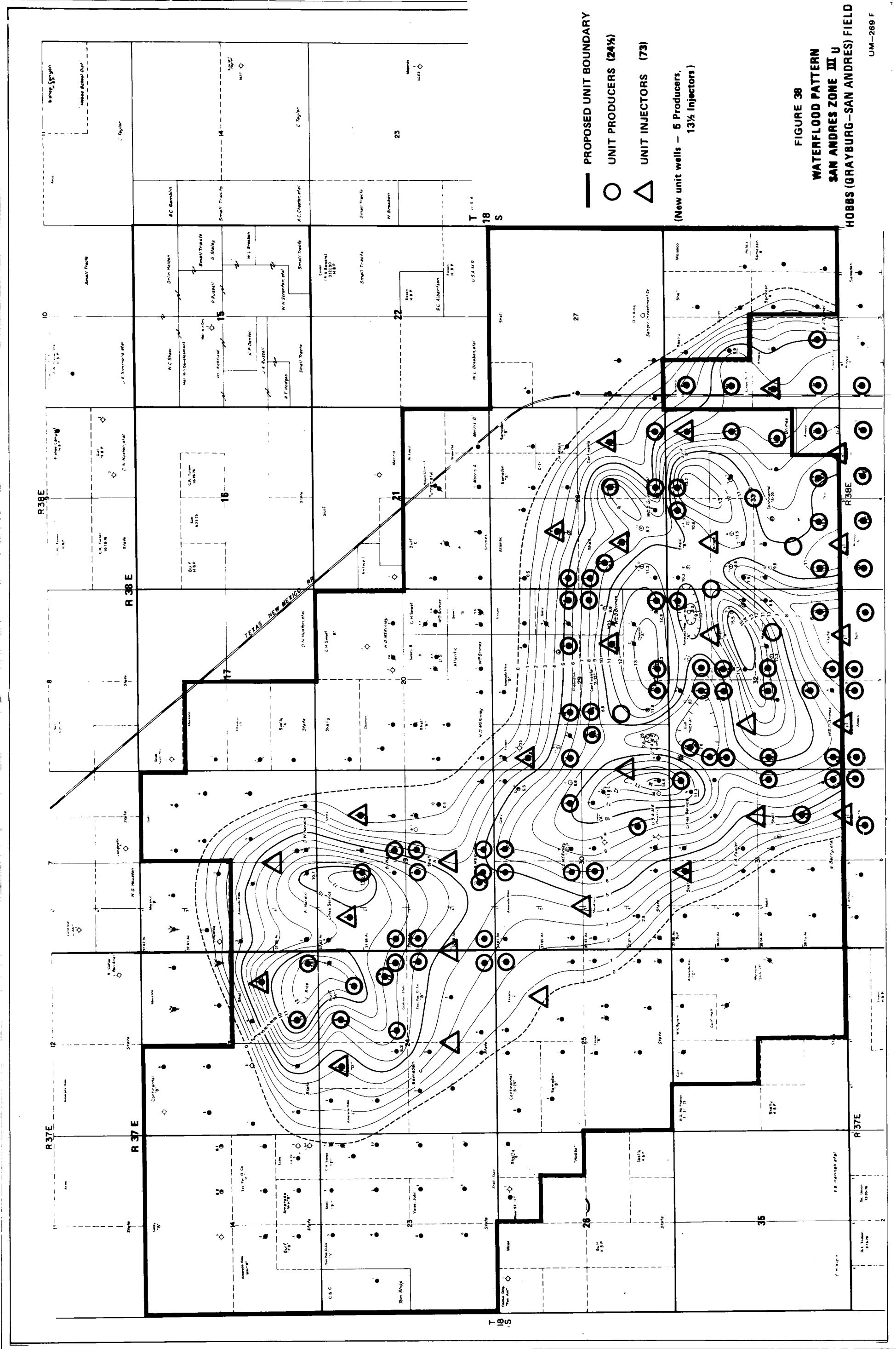
FIGURE 32

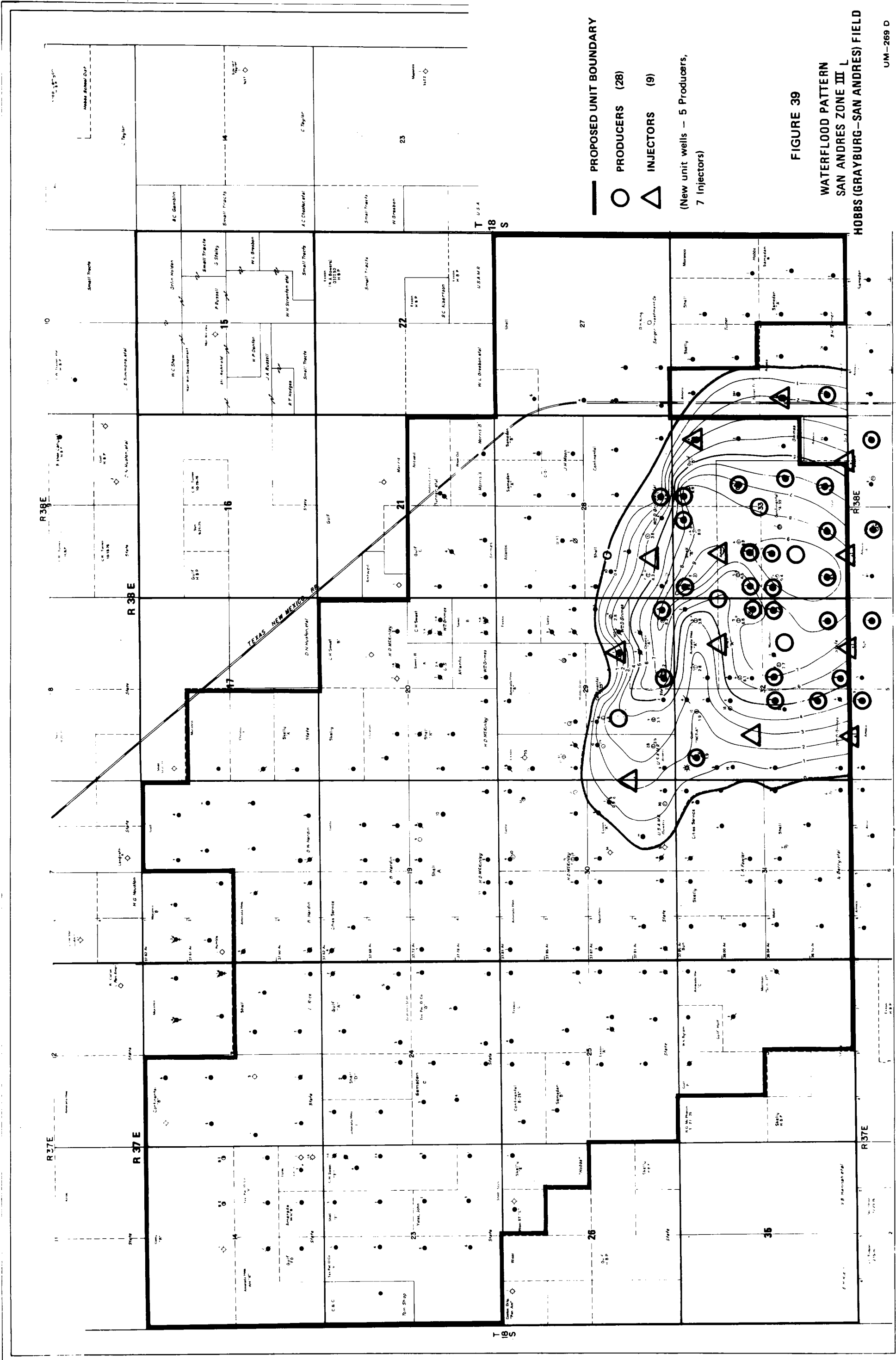
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SHELL OIL CO.	WEST. E & P RES. MID-CONT. DIV.	PROD. DEPT.
HOBBS FIELD LEA COUNTY, NEW MEXICO GRID SYSTEM— COMPUTER STUDY		
DATE: 2-28-78		MDW-415

Hobbs (Gravure San Anani)
W.D. Grimes







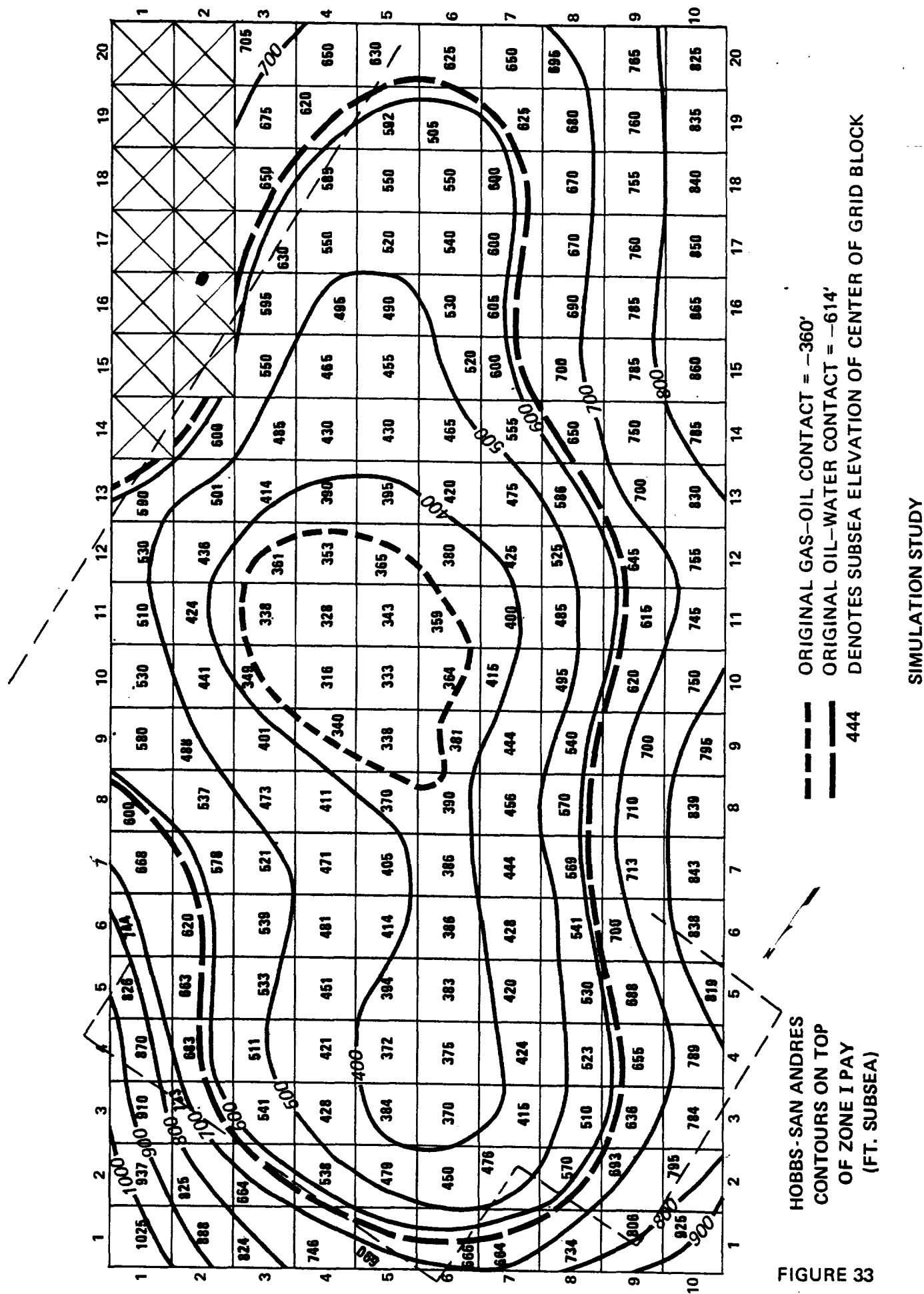


FIGURE 33

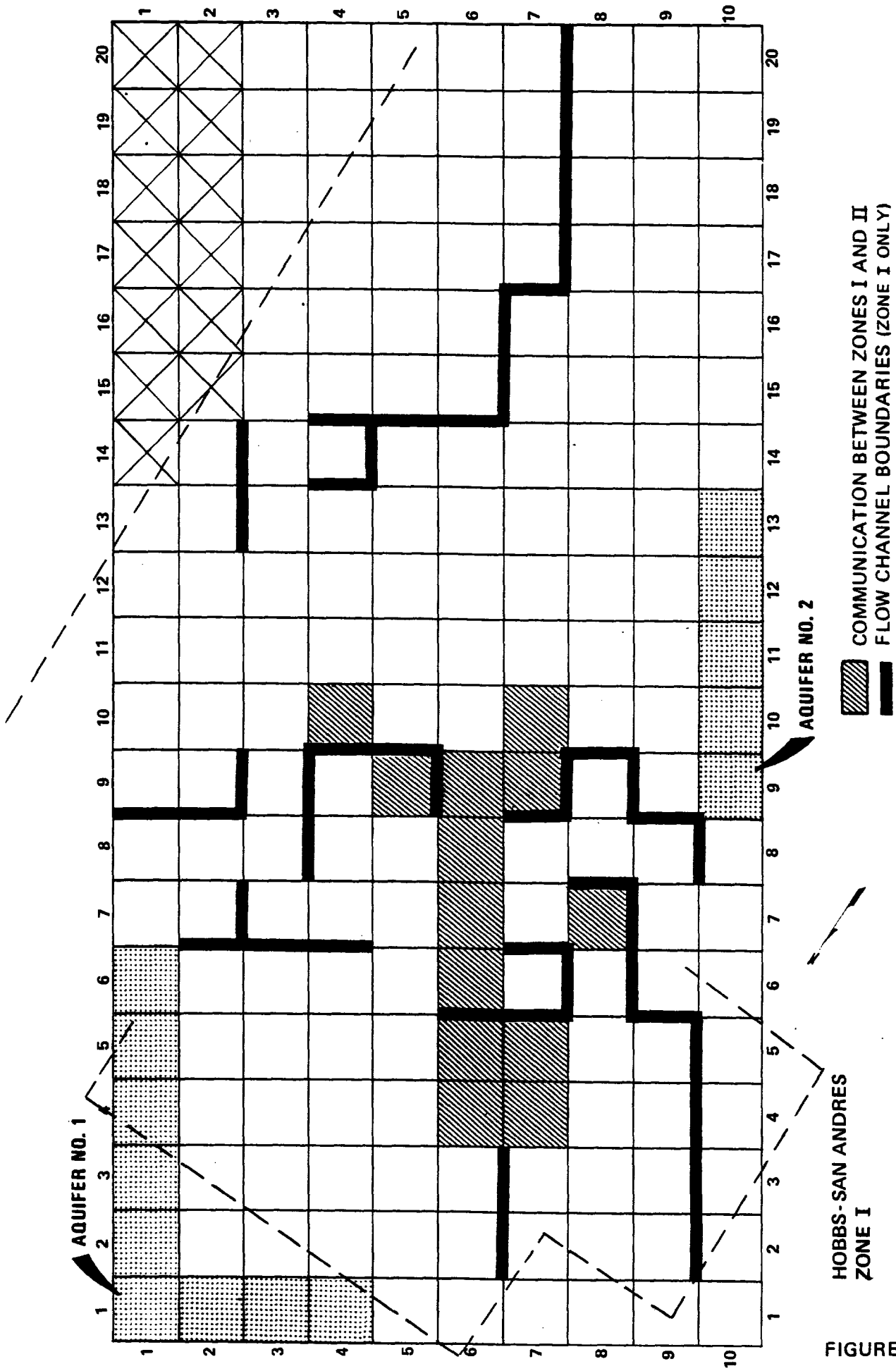


FIGURE 34